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

Cover Page

Order ID : Q1421

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q1421-01	P001-CLAY-CF01-01
Q1421-02	P001-CLAY-CF01-01MS
Q1421-03	P001-CLAY-CF01-01MSD
Q1421-04	P001-CLAY-CF01-01
Q1421-05	P001-CLAY-CF01-01MS
Q1421-06	P001-CLAY-CF01-01MSD
Q1421-07	P001-CLAY-CF01-02
Q1421-08	P001-CLAY-CF01-02
Q1421-09	P001-CLAY-CF02-01
Q1421-10	P001-CLAY-CF02-01

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: 3/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1421
Test Name: EPH

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 02/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

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

The MS {Q1421-02} with File ID: FD049142.D recoveries met the requirements for all compounds except for Aromatic C21-C36[151%] due to matrix interference.

The MSD {Q1421-03} with File ID: FD049143.D recoveries met the acceptable requirements except for Aromatic C21-C36[146%] due to matrix interference.

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

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

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

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_____

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1421 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 {Q1421-02} with File ID: FD049142.D recoveries met the requirements for all compounds except for Aromatic C21-C36[151%] due to matrix interference. The MSD {Q1421-03} with File ID: FD049143.D recoveries met the acceptable requirements except for Aromatic C21-C36[146%] due to matrix interference. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The RPD met criteria .		✓	
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:			✓

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

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1421**

	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:** **03/10/2025**

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

LAB CHRONICLE

OrderID:	Q1421	**OrderDate:**	2/24/2025 2:56:42 PM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1421-01	**P001-CLAY-CF01-01**	**SOIL**			**02/24/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
			Pesticide-TCL	8081B		02/25/25	02/25/25	
			EPH	NJEPH		02/27/25	02/28/25	
Q1421-04	**P001-CLAY-CF01-01**	**WATER**			**02/24/25**			**02/24/25**
			SPLP PCB	8082A		02/27/25	02/27/25	
			SPLP Pesticide	8081B		02/27/25	02/27/25	
			EPH	NJEPH		02/26/25	02/27/25	
Q1421-07	**P001-CLAY-CF01-02**	**SOIL**			**02/24/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
			Pesticide-TCL	8081B		02/25/25	02/25/25	
			EPH	NJEPH		02/27/25	02/28/25	
Q1421-08	**P001-CLAY-CF01-02**	**WATER**			**02/24/25**			**02/24/25**
			SPLP PCB	8082A		02/27/25	02/27/25	
			SPLP Pesticide	8081B		02/27/25	02/27/25	
			EPH	NJEPH		02/26/25	02/27/25	
Q1421-08RE	**P001-CLAY-CF01-02RE**	**WATER**			**02/24/25**			**02/24/25**
			SPLP Pesticide	8081B		02/27/25	02/28/25	
Q1421-09	**P001-CLAY-CF02-01**	**SOIL**			**02/24/25**			**02/24/25**
			PCB	8082A		02/25/25	02/25/25	
			Pesticide-TCL	8081B		02/25/25	02/25/25	
			EPH	NJEPH		02/27/25	02/28/25	

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

LAB CHRONICLE

Q1421-10	**P001-CLAY-CF02-01**	**Water**			**02/24/25**		**02/24/25**
			EPH	NJEPH		02/26/25	02/27/25
			SPLP PCB	8082A		02/27/25	02/27/25
			SPLP Pesticide	8081B		02/27/25	02/27/25



QC SUMMARY

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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Run Number: FC022725AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166883BL	64			0
PB166883BS	81			0
PB166883TB	65			0
P001-CLAY-CF01-01	67			0
P001-CLAY-CF01-01MS	69			0
P001-CLAY-CF01-01MSD	71			0
P001-CLAY-CF01-02	66			0
P001-CLAY-CF02-01	62			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

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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Run Number: FC022825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166923BL	83			0
PB166923BS	78			0
PB166923BSD	77			0
P001-CLAY-CF01-01	105			0
P001-CLAY-CF01-01MS	61			0
P001-CLAY-CF01-01MSD	65			0
P001-CLAY-CF01-02	97			0
P001-CLAY-CF02-01	61			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

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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Run Number: FD022725AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166883BL	111	112	98	0
PB166883BS	123	131	111	0
PB166883TB	127	126	112	0
P001-CLAY-CF01-01	120	124	108	0
P001-CLAY-CF01-01MS	106	107	91	0
P001-CLAY-CF01-01MSD	106	107	91	0
P001-CLAY-CF01-02	108	112	97	0
P001-CLAY-CF02-01	106	108	92	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

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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM CASE No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Run Number: FD022825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166923BL	112	116	99	0
PB166923BS	117	124	106	0
PB166923BSD	118	126	107	0
P001-CLAY-CF01-01	132	139	81	0
P001-CLAY-CF01-01MS	118	124	67	0
P001-CLAY-CF01-01MSD	112	118	64	0
P001-CLAY-CF01-02	129	133	103	0
P001-CLAY-CF02-01	100	105	48	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

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

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-05 **Datafile:** FC068312.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	0	201	67		(40-140)
Aliphatic C12-C16	200	8.76	158	75		(40-140)
Aliphatic C16-C21	300	0	238	79		(40-140)
Aliphatic C21-C28	400	0	320	80		(40-140)
Aliphatic C28-C40	600	60.6	531	78		(40-140)

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

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-06 **Datafile:** FC068313.D

Client ID : P001-CLAY-CF01-01MSD

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	203	68		1.04 |	(40-140)	25
Aliphatic C12-C16	200	8.76	160	76		1.33 |	(40-140)	25
Aliphatic C16-C21	300	0	241	80		1.25 |	(40-140)	25
Aliphatic C21-C28	400	0	321	80		0.25 |	(40-140)	25
Aliphatic C28-C40	600	60.6	538	80		1.52 |	(40-140)	25

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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-02 **Datafile:** FC068334.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	14.2	0	9.70	68		(40-140)
Aliphatic C12-C16	9.5	0.50	9.05	90		(40-140)
Aliphatic C16-C21	14.2	0.43	14.6	100		(40-140)
Aliphatic C21-C28	18.9	0	19.4	102		(40-140)
Aliphatic C28-C40	28.4	2.80	34.1	110		(40-140)

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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-03 **Datafile:** FC068335.D

Client ID : P001-CLAY-CF01-01MSD

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	14.2	0	9.71	68		0.15 |	(40-140)	25
Aliphatic C12-C16	9.5	0.50	9.10	91		0.44 |	(40-140)	25
Aliphatic C16-C21	14.2	0.43	14.7	100		0.1 |	(40-140)	25
Aliphatic C21-C28	18.9	0	19.6	103		0.98 |	(40-140)	25
Aliphatic C28-C40	28.4	2.80	34.6	111		0.9 |	(40-140)	25

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

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-05 **Datafile:** FD049121.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	0	188	94		(40-140)
Aromatic C12-C16	300	12.2	304	97		(40-140)
Aromatic C16-C21	500	43.0	542	100		(40-140)
Aromatic C21-C36	800	0	888	111		(40-140)

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

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-06 **Datafile:** FD049122.D

Client ID : P001-CLAY-CF01-01MSD

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	189	94		0.53 |	(40-140)	25
Aromatic C12-C16	300	12.2	308	99		1.33 |	(40-140)	25
Aromatic C16-C21	500	43.0	541	100		0.2 |	(40-140)	25
Aromatic C21-C36	800	0	837	104		6.51 |	(40-140)	25

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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-02 **Datafile:** FD049142.D

Client ID : P001-CLAY-CF01-01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	9.5	0.47	9.80	99		(40-140)
Aromatic C12-C16	14.2	0.65	17.2	116		(40-140)
Aromatic C16-C21	23.7	2.61	35.7	139		(40-140)
Aromatic C21-C36	37.8	0	57.2	151	*	(40-140)

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

SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : Q1421-03 **Datafile:** FD049143.D

Client ID : P001-CLAY-CF01-01MSD

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	9.5	0.47	9.34	94		5.1 |	(40-140)	25
Aromatic C12-C16	14.2	0.65	16.4	110		5.31 |	(40-140)	25
Aromatic C16-C21	23.7	2.61	34.2	133		4.41 |	(40-140)	25
Aromatic C21-C36	37.9	0	55.5	146	*	3.37 |	(40-140)	25

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

WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : PB166883BS **Datafile:** FC068307.D

Client ID : PB166883BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	195	65		(40-140)
Aliphatic C12-C16	200	179	90		(40-140)
Aliphatic C16-C21	300	306	102		(40-140)
Aliphatic C21-C28	400	416	104		(40-140)
Aliphatic C28-C40	600	688	114		(40-140)

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

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : PB166923BS **Datafile:** FC068323.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.53	65		(40-140)
Aliphatic C12-C16	6.7	5.75	86		(40-140)
Aliphatic C16-C21	10	9.57	96		(40-140)
Aliphatic C21-C28	13.3	12.9	97		(40-140)
Aliphatic C28-C40	20.0	21.3	106		(40-140)

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

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : PB166923BSD **Datafile:** FC068324.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.56	66		0.37|	(40-140)	50
Aliphatic C12-C16	6.7	5.75	86		0|	(40-140)	50
Aliphatic C16-C21	10	9.54	96		0.352|	(40-140)	50
Aliphatic C21-C28	13.3	12.9	97		0.01|	(40-140)	50
Aliphatic C28-C40	20.0	21.4	107		1|	(40-140)	50

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

WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : PB166883BS **Datafile:** FD049116.D

Client ID : PB166883BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	205	102		(40-140)
Aromatic C12-C16	300	352	117		(40-140)
Aromatic C16-C21	500	679	135		(40-140)
Aromatic C21-C36	800	1070	133		(40-140)

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

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : PB166923BS **Datafile:** FD049131.D

Client ID : PB166923BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	6.49	97		(40-140)
Aromatic C12-C16	10	11.1	111		(40-140)
Aromatic C16-C21	16.7	21.5	129		(40-140)
Aromatic C21-C36	26.6	34.3	128		(40-140)

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

SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: CHEM **Cas No:** Q1421 **SAS No :** Q1421 **SDG No:** Q1421

Sample No : PB166923BSD **Datafile:** FD049132.D

Client ID : PB166923BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	6.56	98		1.1|	(40-140)	50
Aromatic C12-C16	10	11.3	113		1.9|	(40-140)	50
Aromatic C16-C21	16.7	21.8	130		1.5|	(40-140)	50
Aromatic C21-C36	26.6	34.9	130		2.3|	(40-140)	50

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

4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166883BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Instrument ID: FID_C Lab Sample ID: PB166883BL

Matrix: (soil/water) Water Date Extracted: 2/26/2025 11:45:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166883BS	PB166883BS
P001-CLAY-CF02-01	Q1421-10
P001-CLAY-CF01-01	Q1421-04
P001-CLAY-CF01-01MS	Q1421-05
P001-CLAY-CF01-01MSD	Q1421-06
P001-CLAY-CF01-02	Q1421-08
PB166883TB	PB166883TB

COMMENTS:

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

4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166923BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Instrument ID: FID_C Lab Sample ID: PB166923BL

Matrix: (soil/water) Solid Date Extracted: 2/27/2025 1:10:00 P

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166923BS	PB166923BS
PB166923BSD	PB166923BSD
P001-CLAY-CF01-01	Q1421-01
P001-CLAY-CF01-01MS	Q1421-02
P001-CLAY-CF01-01MSD	Q1421-03
P001-CLAY-CF01-02	Q1421-07
P001-CLAY-CF02-01	Q1421-09

COMMENTS:



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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
02/27/25 13:10	02/28/25 17:44	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.54	U	1	0.54	1.42	mg/kg	FC068332.D
Aliphatic C12-C16	Aliphatic C12-C16	0.50	J	1	0.34	0.95	mg/kg	FC068332.D
Aliphatic C16-C21	Aliphatic C16-C21	0.43	J	1	0.43	1.42	mg/kg	FC068332.D
Aliphatic C21-C28	Aliphatic C21-C28	1.14	U	1	1.14	1.89	mg/kg	FC068332.D
Aliphatic C28-C40	Aliphatic C28-C40	2.80	J	1	2.56	2.84	mg/kg	FC068332.D
Aromatic C10-C12	Aromatic C10-C12	0.47	J	1	0.43	0.95	mg/kg	FD049140.D
Aromatic C12-C16	Aromatic C12-C16	0.65	J	1	0.48	1.42	mg/kg	FD049140.D
Aromatic C16-C21	Aromatic C16-C21	2.61		1	1.36	2.37	mg/kg	FD049140.D
Aromatic C21-C36	Aromatic C21-C36	2.84	U	1	2.84	3.79	mg/kg	FD049140.D
Total AliphaticEPH	Total AliphaticEPH	5.01	U		5.01	8.52	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.11	U		5.11	8.53	mg/kg	
Total EPH	Total EPH	10.1	U		10.1	17.0	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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FC068332.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.54	U	0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.50	J	0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.43	J	0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.14	U	1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.80	J	2.56	2.84	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	52.6		40 - 140	105%	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:	Q1421-01	Acq On:	28 Feb 2025 17:44
Client Sample ID:	P001-CLAY-CF01-01	Operator:	YP/AJ
Data file:	FC068332.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	3.104	6.369	427569	3.032	300	ug/ml
Aliphatic C12-C16	6.370	9.754	720630	5.273	200	ug/ml
Aliphatic C16-C21	9.755	13.107	594221	4.514	300	ug/ml
Aliphatic C21-C28	13.108	16.761	597602	4.871	400	ug/ml
Aliphatic C28-C40	16.762	21.565	3044821	29.606	600	ug/ml
Aliphatic EPH	3.104	21.565	5384843	47.296		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	5911856	52.56		ug/ml
Aliphatic C9-C28	3.104	16.761	2340022	17.69	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068332.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 17:44
Operator : YP/AJ
Sample : Q1421-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Mar 05 05:24:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	5911856	52.562 ug/ml
Spiked Amount 50.000		Recovery = 105.12%	
Target Compounds			

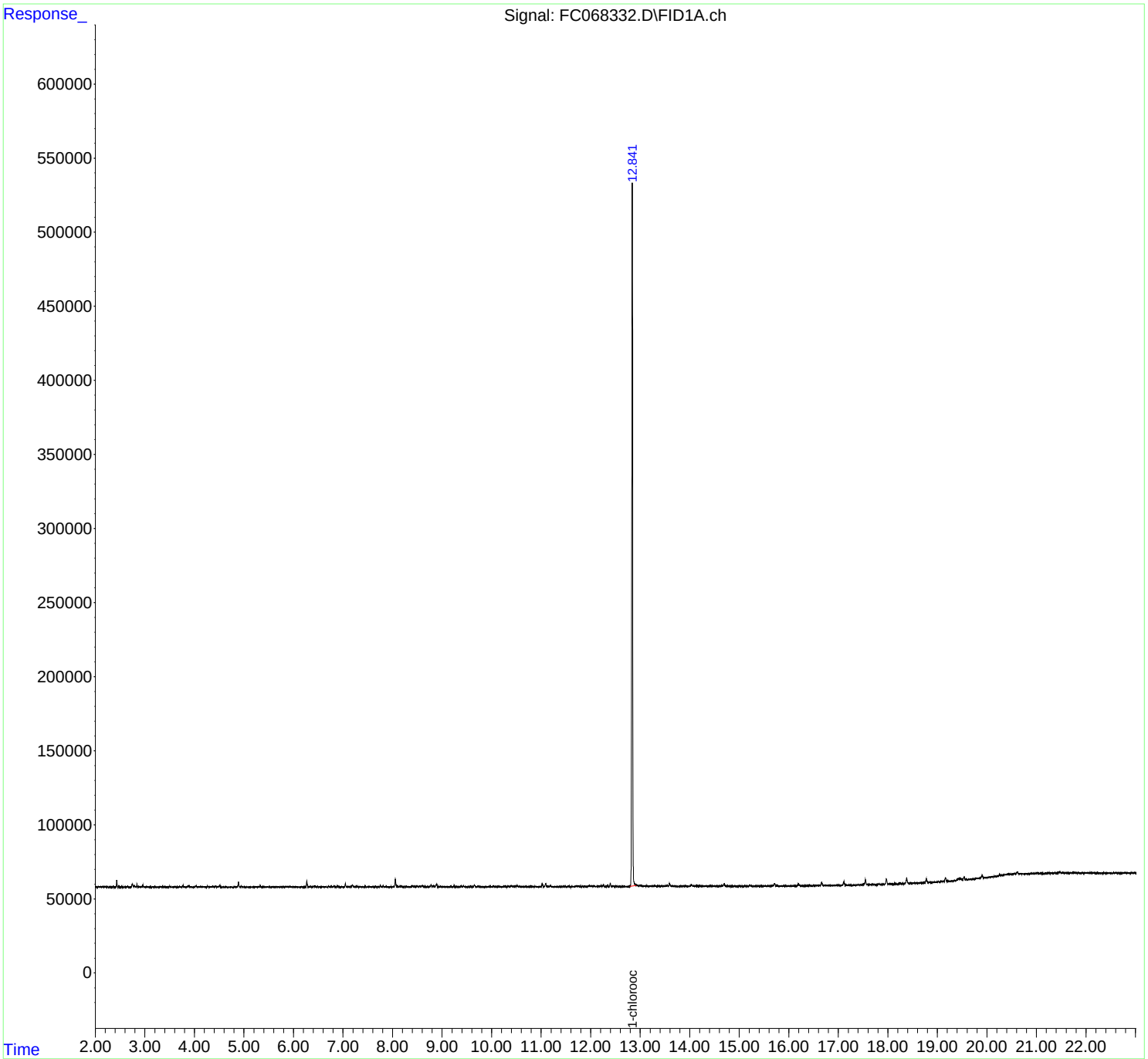
(f)=RT Delta > 1/2 Window (m)=manual int.

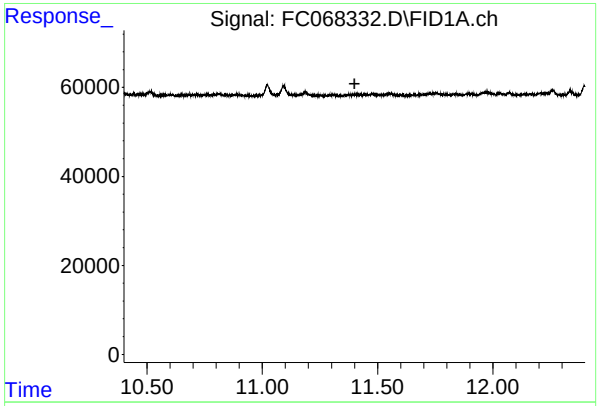
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068332.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 17:44
Operator : YP/AJ
Sample : Q1421-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Mar 05 05:24:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

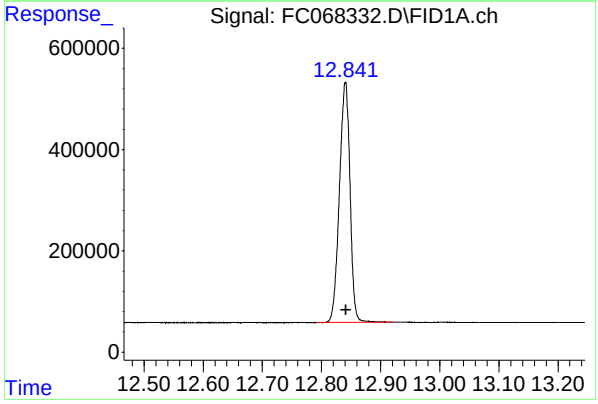




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.001 min
Response: 5911856
Conc: 52.56 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068332.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 17:44
Sample : Q1421-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.358	2.304	2.382	BV	308	2921	0.05%	0.025%
2	2.395	2.382	2.408	PV	93	825	0.01%	0.007%
3	2.431	2.408	2.458	VV	4757	37453	0.63%	0.314%
4	2.472	2.458	2.544	VV	777	8861	0.15%	0.074%
5	2.555	2.544	2.568	VV	134	853	0.01%	0.007%
6	2.593	2.568	2.619	PV	217	2529	0.04%	0.021%
7	2.655	2.619	2.701	VV	606	7855	0.13%	0.066%
8	2.744	2.701	2.773	VV	1996	32456	0.54%	0.272%
9	2.788	2.773	2.820	VV	1382	14788	0.25%	0.124%
10	2.838	2.820	2.864	VV	1475	14901	0.25%	0.125%
11	2.876	2.864	2.904	VV	163	2528	0.04%	0.021%
12	2.918	2.904	2.938	VV	253	3683	0.06%	0.031%
13	2.960	2.938	3.036	VV	1359	17646	0.29%	0.148%
14	3.041	3.036	3.111	VV	157	4107	0.07%	0.034%
15	3.122	3.111	3.178	VV	80	3032	0.05%	0.025%
16	3.206	3.178	3.224	VV	327	4300	0.07%	0.036%
17	3.234	3.224	3.263	VV	132	1535	0.03%	0.013%
18	3.302	3.263	3.332	VV	152	2899	0.05%	0.024%
19	3.360	3.332	3.386	VV	569	5503	0.09%	0.046%
20	3.499	3.386	3.514	VV	673	10274	0.17%	0.086%
21	3.525	3.514	3.557	VV	266	3440	0.06%	0.029%
22	3.572	3.557	3.589	VV	207	2147	0.04%	0.018%
23	3.603	3.589	3.625	VV	149	2147	0.04%	0.018%
24	3.639	3.625	3.652	VV	115	1090	0.02%	0.009%
25	3.694	3.652	3.746	VV	341	8245	0.14%	0.069%
26	3.769	3.746	3.807	VV	1360	14902	0.25%	0.125%
27	3.828	3.807	3.837	VV	117	1639	0.03%	0.014%
28	3.866	3.837	3.878	VV	572	6677	0.11%	0.056%
29	3.893	3.878	3.941	VV	898	12315	0.21%	0.103%
30	3.960	3.941	3.984	VV	153	2286	0.04%	0.019%
31	4.029	3.984	4.066	VV	898	18341	0.31%	0.154%
32	4.082	4.066	4.168	VV	190	7837	0.13%	0.066%
33	4.212	4.168	4.244	VV	205	5638	0.09%	0.047%
34	4.263	4.244	4.286	VV	679	9884	0.17%	0.083%
35	4.301	4.286	4.317	VV	424	4894	0.08%	0.041%
36	4.336	4.317	4.346	VV	205	2918	0.05%	0.024%

rteres

37	4.370	4.346	4.392	VV	497	7966	0.13%	0.067%
38	4.428	4.392	4.448	VV	1142	15096	0.25%	0.127%
39	4.484	4.448	4.497	VV	716	10564	0.18%	0.089%
40	4.513	4.497	4.544	VV	1431	14498	0.24%	0.122%
41	4.557	4.544	4.594	VV	154	2920	0.05%	0.024%
42	4.632	4.594	4.698	VV	220	6078	0.10%	0.051%
43	4.717	4.698	4.742	VV	129	2083	0.03%	0.017%
44	4.753	4.742	4.770	VV	60	1110	0.02%	0.009%
45	4.778	4.770	4.790	VV	104	821	0.01%	0.007%
46	4.809	4.790	4.835	VV	201	2905	0.05%	0.024%
47	4.889	4.835	4.918	VV	3580	44419	0.74%	0.373%
48	4.946	4.918	4.962	VV	697	8804	0.15%	0.074%
49	4.970	4.962	4.985	VV	229	2390	0.04%	0.020%
50	4.994	4.985	5.044	VV	139	3001	0.05%	0.025%
51	5.081	5.064	5.101	VV	215	2330	0.04%	0.020%
52	5.108	5.101	5.134	VV	92	1884	0.03%	0.016%
53	5.138	5.134	5.158	VV	116	1049	0.02%	0.009%
54	5.173	5.158	5.194	VV	176	2682	0.04%	0.022%
55	5.198	5.194	5.223	VV	116	1481	0.02%	0.012%
56	5.240	5.223	5.273	VV	212	3268	0.05%	0.027%
57	5.292	5.273	5.311	VV	552	6523	0.11%	0.055%
58	5.331	5.311	5.370	VV	1080	14684	0.25%	0.123%
59	5.389	5.370	5.438	VV	280	4795	0.08%	0.040%
60	5.473	5.438	5.527	VV	288	6640	0.11%	0.056%
61	5.538	5.527	5.548	PV	92	915	0.02%	0.008%
62	5.579	5.548	5.604	VV	244	4623	0.08%	0.039%
63	5.633	5.604	5.717	VV	220	7175	0.12%	0.060%
64	5.738	5.717	5.754	VV	160	2228	0.04%	0.019%
65	5.791	5.754	5.810	VV	165	3454	0.06%	0.029%
66	5.844	5.810	5.870	VV	362	7589	0.13%	0.064%
67	5.887	5.870	5.912	VV	335	5580	0.09%	0.047%
68	5.929	5.912	5.969	VV	568	9881	0.16%	0.083%
69	5.992	5.969	6.022	VV	376	7021	0.12%	0.059%
70	6.060	6.022	6.092	VV	354	8233	0.14%	0.069%
71	6.103	6.092	6.151	VV	127	3607	0.06%	0.030%
72	6.162	6.151	6.221	VV	186	4365	0.07%	0.037%
73	6.269	6.221	6.330	VV	4111	54382	0.91%	0.456%
74	6.351	6.330	6.374	VV	662	8582	0.14%	0.072%
75	6.386	6.374	6.398	VV	403	3864	0.06%	0.032%
76	6.417	6.398	6.439	VV	947	12372	0.21%	0.104%
77	6.450	6.439	6.474	VV	378	4539	0.08%	0.038%
78	6.489	6.474	6.511	VV	564	6385	0.11%	0.054%
79	6.518	6.511	6.564	VV	139	3094	0.05%	0.026%
80	6.575	6.564	6.608	VV	150	2927	0.05%	0.025%
81	6.632	6.608	6.679	VV	247	5214	0.09%	0.044%
82	6.708	6.679	6.736	VV	586	8464	0.14%	0.071%
83	6.762	6.736	6.794	VV	707	13320	0.22%	0.112%
84	6.811	6.794	6.854	VV	655	14334	0.24%	0.120%
85	6.887	6.854	6.908	VV	1026	15867	0.26%	0.133%
86	6.919	6.908	6.943	VV	253	3639	0.06%	0.031%
87	6.967	6.943	7.020	VV	291	8174	0.14%	0.069%
88	7.048	7.020	7.080	VV	2397	28048	0.47%	0.235%
89	7.122	7.080	7.138	VV	364	7850	0.13%	0.066%

rteres

90	7.155	7.138	7.165	VV	370	4335	0.07%	0.036%
91	7.189	7.165	7.234	VV	1694	26145	0.44%	0.219%
92	7.250	7.234	7.264	VV	418	5844	0.10%	0.049%
93	7.279	7.264	7.321	VV	545	8527	0.14%	0.072%
94	7.338	7.321	7.348	VV	225	3302	0.06%	0.028%
95	7.355	7.348	7.374	VV	234	2804	0.05%	0.024%
96	7.389	7.374	7.420	VV	195	4099	0.07%	0.034%
97	7.448	7.420	7.481	VV	938	12457	0.21%	0.104%
98	7.538	7.481	7.578	VV	234	7207	0.12%	0.060%
99	7.612	7.578	7.651	VV	236	7412	0.12%	0.062%
100	7.661	7.651	7.691	VV	276	3731	0.06%	0.031%
101	7.709	7.691	7.730	VV	348	3990	0.07%	0.033%
102	7.753	7.730	7.781	VV	929	11879	0.20%	0.100%
103	7.809	7.781	7.831	VV	1022	12845	0.21%	0.108%
104	7.846	7.831	7.860	VV	248	2919	0.05%	0.024%
105	7.877	7.860	7.898	VV	352	5048	0.08%	0.042%
106	7.965	7.898	8.027	VV	595	14748	0.25%	0.124%
107	8.057	8.027	8.131	VV	5384	78184	1.31%	0.656%
108	8.156	8.131	8.186	VV	600	15163	0.25%	0.127%
109	8.202	8.186	8.224	VV	459	7860	0.13%	0.066%
110	8.248	8.224	8.271	VV	431	7091	0.12%	0.059%
111	8.288	8.271	8.316	VV	524	7048	0.12%	0.059%
112	8.396	8.316	8.453	VV	604	25987	0.43%	0.218%
113	8.463	8.453	8.491	VV	402	7645	0.13%	0.064%
114	8.512	8.491	8.531	VV	509	9782	0.16%	0.082%
115	8.545	8.531	8.573	VV	585	11445	0.19%	0.096%
116	8.593	8.573	8.638	VV	1093	22784	0.38%	0.191%
117	8.654	8.638	8.684	VV	427	7160	0.12%	0.060%
118	8.708	8.684	8.734	VV	374	5903	0.10%	0.050%
119	8.776	8.734	8.796	VV	1656	24768	0.41%	0.208%
120	8.811	8.796	8.858	VV	873	21990	0.37%	0.184%
121	8.889	8.858	8.941	VV	2139	43965	0.73%	0.369%
122	8.964	8.941	8.991	VV	558	9365	0.16%	0.079%
123	9.012	8.991	9.028	VV	362	5492	0.09%	0.046%
124	9.063	9.028	9.081	VV	262	5370	0.09%	0.045%
125	9.091	9.081	9.128	VV	255	6082	0.10%	0.051%
126	9.176	9.128	9.218	VV	566	14610	0.24%	0.123%
127	9.242	9.218	9.274	VV	901	14384	0.24%	0.121%
128	9.294	9.274	9.308	VV	363	4558	0.08%	0.038%
129	9.311	9.308	9.328	VV	302	2581	0.04%	0.022%
130	9.340	9.328	9.354	VV	252	2858	0.05%	0.024%
131	9.383	9.354	9.414	VV	502	10052	0.17%	0.084%
132	9.433	9.414	9.470	VV	943	13520	0.23%	0.113%
133	9.493	9.470	9.510	VV	216	3458	0.06%	0.029%
134	9.525	9.510	9.550	VV	183	3233	0.05%	0.027%
135	9.575	9.550	9.631	VV	385	10323	0.17%	0.087%
136	9.653	9.631	9.706	VV	1594	27324	0.46%	0.229%
137	9.723	9.706	9.806	VV	354	15262	0.25%	0.128%
138	9.822	9.806	9.840	VV	262	3735	0.06%	0.031%
139	9.968	9.840	10.010	PV	381	18748	0.31%	0.157%
140	10.043	10.010	10.063	VV	487	11133	0.19%	0.093%
141	10.078	10.063	10.111	VV	415	8468	0.14%	0.071%

rteres

142	10.130	10.111	10.171	VV	348	9634	0.16%	0.081%
143	10.179	10.171	10.228	VV	248	6914	0.12%	0.058%
144	10.251	10.228	10.264	VV	428	6514	0.11%	0.055%
145	10.281	10.264	10.304	VV	383	6563	0.11%	0.055%
146	10.322	10.304	10.354	VV	599	11256	0.19%	0.094%
147	10.392	10.354	10.424	VV	774	21076	0.35%	0.177%
148	10.444	10.424	10.457	VV	535	7842	0.13%	0.066%
149	10.469	10.457	10.486	VV	474	7148	0.12%	0.060%
150	10.515	10.486	10.548	VV	1006	20238	0.34%	0.170%
151	10.558	10.548	10.565	VV	248	2195	0.04%	0.018%
152	10.572	10.565	10.587	VV	283	3047	0.05%	0.026%
153	10.603	10.587	10.631	VV	280	5504	0.09%	0.046%
154	10.651	10.631	10.668	VV	233	3642	0.06%	0.031%
155	10.676	10.668	10.691	VV	237	2609	0.04%	0.022%
156	10.711	10.691	10.741	VV	346	6990	0.12%	0.059%
157	10.764	10.741	10.788	VV	347	7191	0.12%	0.060%
158	10.811	10.788	10.830	VV	535	8902	0.15%	0.075%
159	10.842	10.830	10.863	VV	279	4093	0.07%	0.034%
160	10.891	10.863	10.934	VV	294	7650	0.13%	0.064%
161	10.941	10.934	10.958	VV	137	1131	0.02%	0.009%
162	11.022	10.958	11.054	VV	2543	39783	0.66%	0.334%
163	11.092	11.054	11.153	VV	2307	42358	0.71%	0.355%
164	11.186	11.153	11.268	VV	965	17969	0.30%	0.151%
165	11.317	11.268	11.347	VV	179	5042	0.08%	0.042%
166	11.439	11.347	11.454	VV	303	13578	0.23%	0.114%
167	11.478	11.454	11.509	VV	495	9394	0.16%	0.079%
168	11.548	11.509	11.591	VV	512	14021	0.23%	0.118%
169	11.755	11.591	11.819	VV	588	37030	0.62%	0.311%
170	11.840	11.819	11.873	VV	399	8102	0.14%	0.068%
171	11.891	11.873	11.938	VV	450	11471	0.19%	0.096%
172	11.976	11.938	12.010	VV	774	22960	0.38%	0.193%
173	12.028	12.010	12.051	VV	567	9950	0.17%	0.083%
174	12.071	12.051	12.111	VV	679	12520	0.21%	0.105%
175	12.160	12.111	12.178	VV	363	10512	0.18%	0.088%
176	12.208	12.178	12.218	VV	546	9402	0.16%	0.079%
177	12.259	12.218	12.304	VV	1212	27201	0.45%	0.228%
178	12.336	12.304	12.367	VV	1067	15372	0.26%	0.129%
179	12.397	12.367	12.441	VV	2176	30984	0.52%	0.260%
180	12.461	12.441	12.491	VV	337	6694	0.11%	0.056%
181	12.511	12.491	12.559	VV	323	7211	0.12%	0.060%
182	12.571	12.559	12.595	VV	84	910	0.02%	0.008%
183	12.614	12.595	12.628	PV	127	1175	0.02%	0.010%
184	12.654	12.628	12.665	VV	201	3275	0.05%	0.027%
185	12.679	12.665	12.704	VV	239	4190	0.07%	0.035%
186	12.716	12.704	12.738	VV	204	2319	0.04%	0.019%
187	12.840	12.738	12.984	VV	478493	5988440	100.00%	50.229%
188	13.005	12.984	13.043	VV	879	22664	0.38%	0.190%
189	13.063	13.043	13.103	VV	607	15911	0.27%	0.133%
190	13.123	13.103	13.173	VV	474	15059	0.25%	0.126%
191	13.219	13.173	13.243	VV	465	16757	0.28%	0.141%
192	13.291	13.243	13.338	VV	587	23146	0.39%	0.194%
193	13.350	13.338	13.374	VV	366	6498	0.11%	0.055%
194	13.396	13.374	13.404	VV	351	5414	0.09%	0.045%

rteres

195	13.443	13.404	13.484	VV	465	18176	0.30%	0.152%
196	13.542	13.484	13.567	VV	959	24144	0.40%	0.203%
197	13.594	13.567	13.694	VV	2017	43789	0.73%	0.367%
198	13.710	13.694	13.768	VV	232	8473	0.14%	0.071%
199	13.824	13.768	13.838	VV	340	9540	0.16%	0.080%
200	13.844	13.838	13.914	VV	361	11231	0.19%	0.094%
201	13.927	13.914	14.003	VV	282	11740	0.20%	0.098%
202	14.030	14.003	14.092	VV	1198	30339	0.51%	0.254%
203	14.109	14.092	14.128	VV	329	6008	0.10%	0.050%
204	14.155	14.128	14.196	VV	620	15263	0.25%	0.128%
205	14.209	14.196	14.245	VV	338	8801	0.15%	0.074%
206	14.257	14.245	14.277	VV	323	5235	0.09%	0.044%
207	14.310	14.277	14.375	VV	391	17938	0.30%	0.150%
208	14.397	14.375	14.423	VV	452	9329	0.16%	0.078%
209	14.435	14.423	14.448	VV	275	3934	0.07%	0.033%
210	14.465	14.448	14.541	VV	336	14204	0.24%	0.119%
211	14.549	14.541	14.581	VV	273	4592	0.08%	0.039%
212	14.592	14.581	14.617	VV	299	4337	0.07%	0.036%
213	14.652	14.617	14.669	VV	805	12955	0.22%	0.109%
214	14.695	14.669	14.837	VV	1880	41129	0.69%	0.345%
215	14.862	14.837	14.917	VV	303	7423	0.12%	0.062%
216	14.925	14.917	14.993	VV	154	3935	0.07%	0.033%
217	15.003	14.993	15.028	VV	112	1232	0.02%	0.010%
218	15.054	15.028	15.075	PV	59	1469	0.02%	0.012%
219	15.117	15.075	15.164	VV	179	6646	0.11%	0.056%
220	15.176	15.164	15.188	VV	136	1381	0.02%	0.012%
221	15.215	15.188	15.289	VV	818	16410	0.27%	0.138%
222	15.297	15.289	15.304	VV	52	522	0.01%	0.004%
223	15.332	15.304	15.341	PV	146	2121	0.04%	0.018%
224	15.350	15.341	15.361	VV	148	1501	0.03%	0.013%
225	15.392	15.361	15.418	VV	220	4953	0.08%	0.042%
226	15.427	15.418	15.464	VV	171	2523	0.04%	0.021%
227	15.513	15.464	15.558	VV	223	7087	0.12%	0.059%
228	15.569	15.558	15.628	VV	204	5045	0.08%	0.042%
229	15.639	15.628	15.643	VV	81	475	0.01%	0.004%
230	15.673	15.643	15.690	PV	541	8249	0.14%	0.069%
231	15.713	15.690	15.801	VV	1804	34607	0.58%	0.290%
232	15.896	15.801	15.921	VV	146	5151	0.09%	0.043%
233	15.935	15.921	15.944	VV	94	1011	0.02%	0.008%
234	15.971	15.944	15.989	VV	82	1523	0.03%	0.013%
235	16.042	15.989	16.053	PV	124	3030	0.05%	0.025%
236	16.063	16.053	16.144	VV	133	4457	0.07%	0.037%
237	16.195	16.144	16.234	VV	1461	24552	0.41%	0.206%
238	16.241	16.234	16.301	VV	218	5763	0.10%	0.048%
239	16.354	16.301	16.374	VV	249	5375	0.09%	0.045%
240	16.388	16.374	16.454	VV	238	6862	0.11%	0.058%
241	16.463	16.454	16.471	VV	118	1199	0.02%	0.010%
242	16.479	16.471	16.484	VV	157	908	0.02%	0.008%
243	16.501	16.484	16.512	VV	218	2646	0.04%	0.022%
244	16.545	16.512	16.561	VV	210	4782	0.08%	0.040%
245	16.587	16.561	16.598	VV	245	3679	0.06%	0.031%
246	16.662	16.598	16.763	VV	2442	53054	0.89%	0.445%

					rteres			
247	16.812	16.763	16.838	VV	181	5946	0.10%	0.050%
248	16.859	16.838	16.914	VV	148	3597	0.06%	0.030%
249	16.957	16.914	16.981	PV	262	5707	0.10%	0.048%
250	17.002	16.981	17.038	VV	229	4674	0.08%	0.039%
251	17.056	17.038	17.072	VV	111	1937	0.03%	0.016%
252	17.111	17.072	17.172	VV	2761	46178	0.77%	0.387%
253	17.218	17.172	17.250	VV	188	6354	0.11%	0.053%
254	17.276	17.250	17.304	VV	162	3426	0.06%	0.029%
255	17.314	17.304	17.360	VV	104	2869	0.05%	0.024%
256	17.380	17.360	17.413	VV	195	3647	0.06%	0.031%
257	17.424	17.413	17.467	VV	151	2752	0.05%	0.023%
258	17.547	17.467	17.599	PV	3583	62686	1.05%	0.526%
259	17.649	17.599	17.694	VV	309	10568	0.18%	0.089%
260	17.728	17.694	17.788	VV	166	4300	0.07%	0.036%
261	17.826	17.788	17.901	VV	467	11251	0.19%	0.094%
262	17.970	17.901	18.011	PV	3763	62291	1.04%	0.522%
263	18.027	18.011	18.114	VV	311	10130	0.17%	0.085%
264	18.144	18.114	18.168	VV	416	4867	0.08%	0.041%
265	18.234	18.168	18.301	VV	301	10838	0.18%	0.091%
266	18.379	18.301	18.448	PV	3828	67043	1.12%	0.562%
267	18.505	18.448	18.558	VV	235	7511	0.13%	0.063%
268	18.589	18.558	18.604	VV	115	2088	0.03%	0.018%
269	18.639	18.604	18.654	PV	201	4121	0.07%	0.035%
270	18.777	18.654	18.835	VV	2618	48405	0.81%	0.406%
271	18.955	18.835	18.974	VV	239	8063	0.13%	0.068%
272	19.025	18.974	19.054	VV	246	8065	0.13%	0.068%
273	19.085	19.054	19.104	VV	291	7883	0.13%	0.066%
274	19.162	19.104	19.258	VV	2834	65083	1.09%	0.546%
275	19.448	19.258	19.511	VV	1962	128777	2.15%	1.080%
276	19.537	19.511	19.624	VV	2533	78294	1.31%	0.657%
277	19.901	19.624	19.936	VV	3012	207474	3.46%	1.740%
278	19.965	19.936	19.994	VV	1410	47083	0.79%	0.395%
279	20.257	19.994	20.288	VV	2860	314821	5.26%	2.641%
280	20.434	20.288	20.454	VV	2899	251643	4.20%	2.111%
281	20.613	20.454	20.681	VV	3869	394903	6.59%	3.312%
282	20.691	20.681	20.731	VV	2701	77651	1.30%	0.651%
283	20.802	20.731	20.851	VV	2435	175787	2.94%	1.474%
284	20.857	20.851	20.879	VV	2438	39427	0.66%	0.331%
285	21.013	20.879	21.087	VV	2542	284374	4.75%	2.385%
286	21.266	21.087	21.279	VV	2024	236917	3.96%	1.987%
287	21.294	21.279	21.318	VV	1982	44856	0.75%	0.376%
288	21.330	21.318	21.351	VV	1949	37490	0.63%	0.314%
289	21.359	21.351	21.401	VV	1895	54482	0.91%	0.457%
290	21.469	21.401	21.574	VV	2353	188562	3.15%	1.582%
291	21.774	21.574	21.938	VV	1486	278435	4.65%	2.335%
292	21.981	21.938	22.048	VV	911	54274	0.91%	0.455%
293	22.105	22.048	22.124	VV	667	28533	0.48%	0.239%
294	22.138	22.124	22.307	VV	585	36410	0.61%	0.305%
			Sum of corrected areas:			11922335		

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FD049140.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.47	J	0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.65	J	0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.61		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.84	U	2.84	3.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	66.0		40 - 140	132%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	69.5		40 - 140	139%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.6		40 - 140	81%	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:	Q1421-01	Acq On:	28 Feb 2025 17:44
Client Sample ID:	P001-CLAY-CF01-01	Operator:	YP/AJ
Data file:	FD049140.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	4.076	5.794	784409	4.933	200	ug/ml
Aromatic C12-C16	5.795	8.396	1103291	6.855	300	ug/ml
Aromatic C16-C21	8.397	12.661	4230619	27.586	500	ug/ml
Aromatic C21-C36	12.662	18.073	4243205	29.649	800	ug/ml
Aromatic EPH	4.076	18.073	10361524	69.024		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	9440086	65.96		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	6112214	69.53		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	6566627	40.59		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049140.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 17:44
Operator : YP/AJ
Sample : Q1421-01
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Mar 01 02:20:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	9440086	65.964 ug/ml
Spiked Amount 50.000		Recovery =	131.93%
6) S 2-Flurobiphenyl (SURR)	8.201	6112214	69.527 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	139.05%#
11) S ortho-Terphenyl (SURR)	11.235	6566627	40.591 ug/ml
Spiked Amount 50.000		Recovery =	81.18%
Target Compounds			

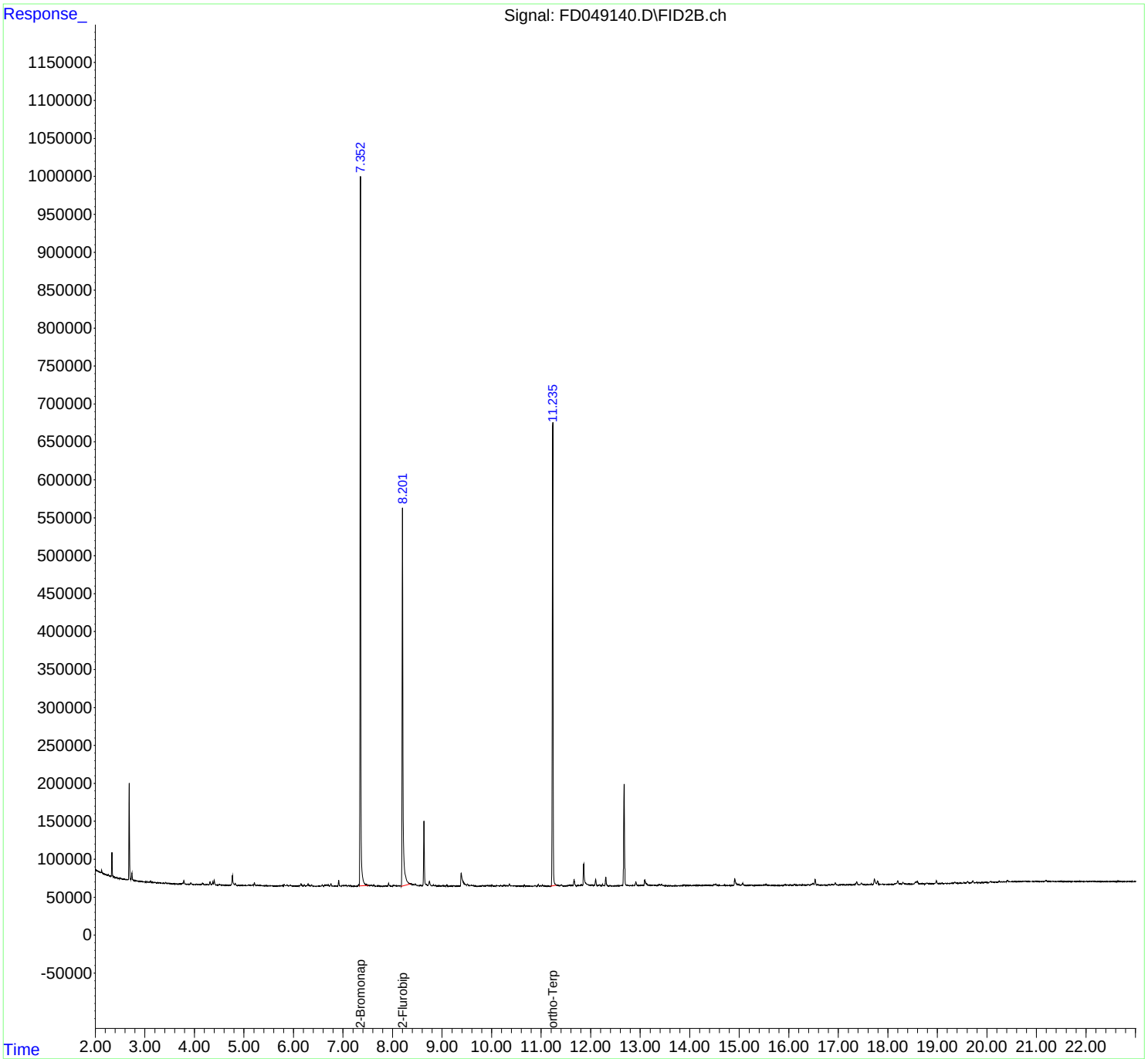
(f)=RT Delta > 1/2 Window (m)=manual int.

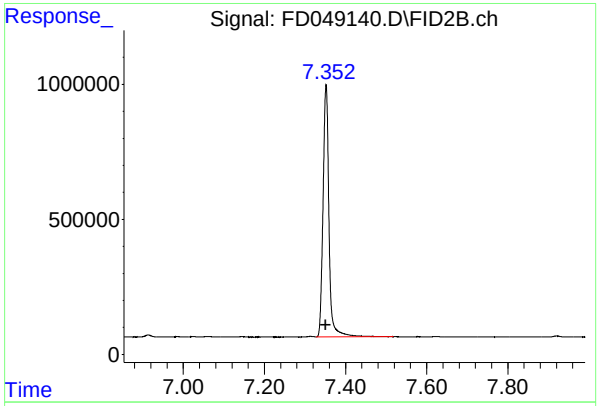
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049140.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 17:44
Operator : YP/AJ
Sample : Q1421-01
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Mar 01 02:20:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

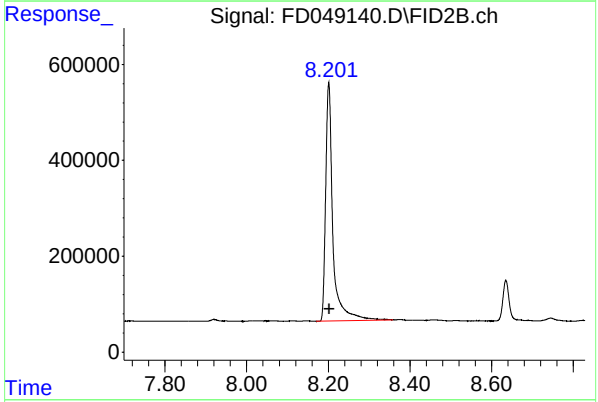




#4 2-Bromonaphthalene (SURR)

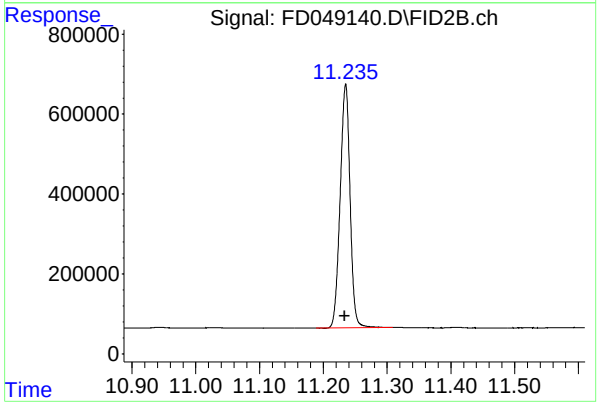
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 9440086
Conc: 65.96 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: -0.001 min
Response: 6112214
Conc: 69.53 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 6566627
Conc: 40.59 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049140.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 17:44
Sample : Q1421-01
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.100	4.062	4.112	BV	218	1589	0.02%	0.005%
2	4.129	4.123	4.142	VV	268	2078	0.02%	0.006%
3	4.160	4.142	4.222	PV	2211	36733	0.39%	0.112%
4	4.232	4.222	4.238	VV	432	2423	0.03%	0.007%
5	4.260	4.238	4.293	VV	897	13696	0.14%	0.042%
6	4.314	4.293	4.349	VV	4474	53140	0.56%	0.161%
7	4.369	4.349	4.383	VV	3881	41546	0.44%	0.126%
8	4.399	4.383	4.444	VV	6718	83245	0.87%	0.253%
9	4.452	4.444	4.468	VV	311	3033	0.03%	0.009%
10	4.496	4.468	4.500	VV	688	8419	0.09%	0.026%
11	4.510	4.500	4.540	VV	932	13517	0.14%	0.041%
12	4.544	4.540	4.552	VV	237	1478	0.02%	0.004%
13	4.558	4.552	4.566	VV	179	1231	0.01%	0.004%
14	4.578	4.566	4.588	VV	526	4348	0.05%	0.013%
15	4.592	4.588	4.625	VV	365	4608	0.05%	0.014%
16	4.628	4.625	4.648	VV	247	2238	0.02%	0.007%
17	4.669	4.657	4.678	PV	313	2523	0.03%	0.008%
18	4.687	4.678	4.703	VV	854	8312	0.09%	0.025%
19	4.709	4.703	4.725	VV	521	5192	0.05%	0.016%
20	4.767	4.725	4.812	VV	13555	191237	2.01%	0.581%
21	4.826	4.812	4.890	VV	2844	39392	0.41%	0.120%
22	4.896	4.890	4.912	VV	316	2389	0.03%	0.007%
23	4.924	4.912	4.929	VV	324	2097	0.02%	0.006%
24	4.936	4.929	4.951	VV	340	3740	0.04%	0.011%
25	4.964	4.951	4.990	VV	650	10113	0.11%	0.031%
26	4.997	4.990	5.003	VV	399	2797	0.03%	0.008%
27	5.007	5.003	5.021	VV	388	2713	0.03%	0.008%
28	5.025	5.021	5.058	VV	262	3873	0.04%	0.012%
29	5.084	5.065	5.127	VV	905	26515	0.28%	0.080%
30	5.138	5.127	5.165	VV	997	16191	0.17%	0.049%
31	5.182	5.165	5.195	VV	1769	22532	0.24%	0.068%
32	5.211	5.195	5.252	VV	4208	55798	0.59%	0.169%
33	5.269	5.252	5.300	VV	1315	20951	0.22%	0.064%
34	5.305	5.300	5.323	VV	430	5441	0.06%	0.017%
35	5.332	5.323	5.347	VV	686	7807	0.08%	0.024%
36	5.352	5.347	5.365	VV	611	4991	0.05%	0.015%

rteres

37	5.373	5.365	5.403	VV	434	5864	0.06%	0.018%
38	5.410	5.403	5.430	VV	333	3659	0.04%	0.011%
39	5.438	5.430	5.445	VV	297	1848	0.02%	0.006%
40	5.469	5.445	5.512	VV	748	14233	0.15%	0.043%
41	5.521	5.512	5.542	VV	385	5247	0.06%	0.016%
42	5.584	5.542	5.589	VV	370	6739	0.07%	0.020%
43	5.592	5.589	5.602	VV	273	1281	0.01%	0.004%
44	5.607	5.602	5.617	VV	169	1138	0.01%	0.003%
45	5.635	5.617	5.640	VV	300	2149	0.02%	0.007%
46	5.654	5.640	5.671	PV	215	2050	0.02%	0.006%
47	5.686	5.671	5.710	VV	474	6608	0.07%	0.020%
48	5.729	5.710	5.752	VV	559	9655	0.10%	0.029%
49	5.755	5.752	5.758	VV	342	1251	0.01%	0.004%
50	5.775	5.758	5.796	VV	1120	14761	0.15%	0.045%
51	5.813	5.796	5.838	VV	2307	31900	0.33%	0.097%
52	5.871	5.838	5.902	VV	2021	36458	0.38%	0.111%
53	5.937	5.902	5.968	VV	1241	30091	0.32%	0.091%
54	5.975	5.968	5.987	VV	353	3294	0.03%	0.010%
55	5.996	5.987	6.002	VV	385	2940	0.03%	0.009%
56	6.014	6.002	6.030	VV	381	4429	0.05%	0.013%
57	6.043	6.030	6.048	VV	338	2684	0.03%	0.008%
58	6.053	6.048	6.080	VV	332	4363	0.05%	0.013%
59	6.099	6.080	6.105	VV	588	6174	0.06%	0.019%
60	6.110	6.105	6.119	VV	604	4056	0.04%	0.012%
61	6.125	6.119	6.131	VV	484	3715	0.04%	0.011%
62	6.152	6.131	6.198	VV	3342	56942	0.60%	0.173%
63	6.221	6.198	6.247	VV	1875	26162	0.27%	0.079%
64	6.262	6.247	6.276	VV	1211	13244	0.14%	0.040%
65	6.292	6.276	6.314	VV	3270	40884	0.43%	0.124%
66	6.328	6.314	6.348	VV	1008	13995	0.15%	0.042%
67	6.367	6.348	6.405	VV	1932	24475	0.26%	0.074%
68	6.409	6.405	6.437	VV	224	3136	0.03%	0.010%
69	6.443	6.437	6.467	VV	226	2069	0.02%	0.006%
70	6.477	6.467	6.493	VV	203	2120	0.02%	0.006%
71	6.508	6.493	6.524	VV	467	4227	0.04%	0.013%
72	6.549	6.539	6.558	VV	263	2262	0.02%	0.007%
73	6.580	6.558	6.610	VV	2066	24942	0.26%	0.076%
74	6.629	6.610	6.639	VV	1666	18779	0.20%	0.057%
75	6.642	6.639	6.653	VV	1456	11005	0.12%	0.033%
76	6.664	6.653	6.668	VV	1521	12489	0.13%	0.038%
77	6.679	6.668	6.693	VV	2219	24604	0.26%	0.075%
78	6.702	6.693	6.731	VV	1712	22425	0.24%	0.068%
79	6.757	6.731	6.807	VV	3560	53843	0.56%	0.163%
80	6.833	6.807	6.844	VV	543	9065	0.10%	0.028%
81	6.857	6.844	6.882	VV	612	7924	0.08%	0.024%
82	6.914	6.882	6.957	PV	7942	89550	0.94%	0.272%
83	6.987	6.957	7.009	VV	1284	26387	0.28%	0.080%
84	7.025	7.009	7.037	VV	1508	18017	0.19%	0.055%
85	7.061	7.037	7.100	VV	1838	36649	0.38%	0.111%
86	7.115	7.100	7.133	VV	1066	14714	0.15%	0.045%
87	7.145	7.133	7.184	VV	1496	16267	0.17%	0.049%
88	7.210	7.184	7.237	VV	303	4555	0.05%	0.014%
89	7.266	7.237	7.272	PV	283	3945	0.04%	0.012%

90	7.276	7.272	7.286	VV	315	1765	0.02%	0.005%
91	7.314	7.286	7.328	VV	2598	29397	0.31%	0.089%
92	7.352	7.328	7.508	VV	933500	9531207	100.00%	28.933%
93	7.523	7.508	7.535	VV	1343	20208	0.21%	0.061%
94	7.545	7.535	7.549	VV	1162	9231	0.10%	0.028%
95	7.555	7.549	7.570	VV	1153	13383	0.14%	0.041%
96	7.581	7.570	7.605	VV	1316	20440	0.21%	0.062%
97	7.623	7.605	7.656	VV	1904	29524	0.31%	0.090%
98	7.684	7.656	7.700	VV	448	9634	0.10%	0.029%
99	7.718	7.700	7.735	VV	795	12846	0.13%	0.039%
100	7.742	7.735	7.767	VV	511	6571	0.07%	0.020%
101	7.772	7.767	7.790	VV	327	3246	0.03%	0.010%
102	7.798	7.790	7.815	VV	329	3668	0.04%	0.011%
103	7.834	7.815	7.851	VV	577	8567	0.09%	0.026%
104	7.867	7.851	7.900	VV	576	12349	0.13%	0.037%
105	7.920	7.900	7.943	VV	4028	47882	0.50%	0.145%
106	7.950	7.943	7.960	VV	862	6552	0.07%	0.020%
107	7.968	7.960	7.993	VV	423	4889	0.05%	0.015%
108	8.014	7.993	8.022	VV	1133	12304	0.13%	0.037%
109	8.034	8.022	8.051	VV	1242	17172	0.18%	0.052%
110	8.067	8.051	8.090	VV	1253	17197	0.18%	0.052%
111	8.113	8.090	8.127	VV	1237	14690	0.15%	0.045%
112	8.146	8.127	8.171	VV	1196	16571	0.17%	0.050%
113	8.201	8.171	8.364	VV	498377	6310065	66.20%	19.155%
114	8.374	8.364	8.403	VV	3494	70425	0.74%	0.214%
115	8.411	8.403	8.438	VV	2528	48166	0.51%	0.146%
116	8.457	8.438	8.498	VV	3278	81266	0.85%	0.247%
117	8.513	8.498	8.550	VV	1568	34727	0.36%	0.105%
118	8.565	8.550	8.602	VV	1295	28440	0.30%	0.086%
119	8.635	8.602	8.714	VV	85909	973003	10.21%	2.954%
120	8.745	8.714	8.790	VV	6843	130794	1.37%	0.397%
121	8.793	8.790	8.805	VV	660	5209	0.05%	0.016%
122	8.824	8.805	8.850	VV	2005	35443	0.37%	0.108%
123	8.871	8.850	8.902	VV	1233	24921	0.26%	0.076%
124	8.933	8.902	8.942	VV	857	15841	0.17%	0.048%
125	8.946	8.942	8.973	VV	826	11091	0.12%	0.034%
126	8.977	8.973	8.980	VV	460	1690	0.02%	0.005%
127	8.991	8.980	9.003	VV	686	7984	0.08%	0.024%
128	9.017	9.003	9.034	VV	1080	15177	0.16%	0.046%
129	9.038	9.034	9.073	VV	847	11058	0.12%	0.034%
130	9.094	9.073	9.149	VV	1871	32445	0.34%	0.098%
131	9.181	9.149	9.192	VV	676	9155	0.10%	0.028%
132	9.198	9.192	9.215	VV	468	4861	0.05%	0.015%
133	9.239	9.215	9.271	VV	1111	16385	0.17%	0.050%
134	9.300	9.271	9.338	VV	685	14195	0.15%	0.043%
135	9.349	9.338	9.357	VV	483	4827	0.05%	0.015%
136	9.359	9.357	9.368	VV	580	2734	0.03%	0.008%
137	9.387	9.368	9.498	VV	17533	480926	5.05%	1.460%
138	9.514	9.498	9.563	VV	3267	69253	0.73%	0.210%
139	9.589	9.563	9.635	VV	1444	48096	0.50%	0.146%
140	9.643	9.635	9.650	VV	795	5793	0.06%	0.018%
141	9.656	9.650	9.673	VV	715	7591	0.08%	0.023%

142	9.687	9.673	9.706	VV	619	8422	0.09%	0.026%
143	9.713	9.706	9.729	VV	387	3816	0.04%	0.012%
144	9.735	9.729	9.740	VV	303	1577	0.02%	0.005%
145	9.752	9.740	9.763	VV	433	4263	0.04%	0.013%
146	9.779	9.763	9.795	VV	611	9709	0.10%	0.029%
147	9.823	9.795	9.850	VV	1351	25145	0.26%	0.076%
148	9.903	9.850	9.920	VV	1050	29525	0.31%	0.090%
149	9.936	9.920	9.942	VV	1067	11961	0.13%	0.036%
150	9.949	9.942	9.959	VV	898	8107	0.09%	0.025%
151	9.966	9.959	9.977	VV	827	7589	0.08%	0.023%
152	9.989	9.977	9.996	VV	861	8183	0.09%	0.025%
153	10.011	9.996	10.032	VV	1586	21587	0.23%	0.066%
154	10.054	10.032	10.070	VV	575	11227	0.12%	0.034%
155	10.099	10.070	10.118	VV	1165	20761	0.22%	0.063%
156	10.132	10.118	10.158	VV	956	16755	0.18%	0.051%
157	10.186	10.158	10.207	VV	1460	26956	0.28%	0.082%
158	10.251	10.207	10.281	VV	2061	45733	0.48%	0.139%
159	10.294	10.281	10.317	VV	1061	16719	0.18%	0.051%
160	10.326	10.317	10.336	VV	1008	9262	0.10%	0.028%
161	10.362	10.336	10.387	VV	3134	49631	0.52%	0.151%
162	10.402	10.387	10.421	VV	849	13006	0.14%	0.039%
163	10.423	10.421	10.430	VV	608	3179	0.03%	0.010%
164	10.434	10.430	10.441	VV	655	3841	0.04%	0.012%
165	10.454	10.441	10.481	VV	791	15334	0.16%	0.047%
166	10.489	10.481	10.510	VV	537	6398	0.07%	0.019%
167	10.520	10.510	10.530	VV	509	5333	0.06%	0.016%
168	10.532	10.530	10.537	VV	609	1929	0.02%	0.006%
169	10.544	10.537	10.577	VV	619	12850	0.13%	0.039%
170	10.603	10.577	10.618	VV	621	11065	0.12%	0.034%
171	10.632	10.618	10.643	VV	690	8194	0.09%	0.025%
172	10.660	10.643	10.681	VV	1792	21991	0.23%	0.067%
173	10.703	10.681	10.722	VV	659	11676	0.12%	0.035%
174	10.726	10.722	10.743	VV	468	5396	0.06%	0.016%
175	10.750	10.743	10.800	VV	499	11767	0.12%	0.036%
176	10.810	10.800	10.828	VV	394	4118	0.04%	0.012%
177	10.877	10.828	10.915	VV	1180	25036	0.26%	0.076%
178	10.944	10.915	10.975	VV	2314	36661	0.38%	0.111%
179	10.986	10.975	10.992	VV	748	6536	0.07%	0.020%
180	10.997	10.992	11.008	VV	733	6283	0.07%	0.019%
181	11.029	11.008	11.062	VV	1441	27229	0.29%	0.083%
182	11.067	11.062	11.072	VV	434	1981	0.02%	0.006%
183	11.086	11.072	11.120	VV	531	9219	0.10%	0.028%
184	11.149	11.120	11.173	VV	643	14084	0.15%	0.043%
185	11.185	11.173	11.193	VV	416	3537	0.04%	0.011%
186	11.235	11.203	11.309	PV	611603	6634678	69.61%	20.140%
187	11.319	11.309	11.379	VV	1918	50938	0.53%	0.155%
188	11.408	11.379	11.451	VV	2256	47656	0.50%	0.145%
189	11.454	11.451	11.464	VV	463	3026	0.03%	0.009%
190	11.485	11.464	11.490	VV	581	6615	0.07%	0.020%
191	11.507	11.490	11.512	VV	811	8601	0.09%	0.026%
192	11.517	11.512	11.541	VV	964	13676	0.14%	0.042%
193	11.568	11.541	11.578	VV	1368	24030	0.25%	0.073%
194	11.592	11.578	11.614	VV	1483	25576	0.27%	0.078%

rteres

195	11.620	11.614	11.630	VV	977	9584	0.10%	0.029%
196	11.665	11.630	11.709	VV	8833	144453	1.52%	0.439%
197	11.714	11.709	11.719	VV	682	3462	0.04%	0.011%
198	11.737	11.719	11.744	VV	1051	13461	0.14%	0.041%
199	11.755	11.744	11.782	VV	1117	21274	0.22%	0.065%
200	11.814	11.782	11.838	VV	2399	51652	0.54%	0.157%
201	11.860	11.838	11.924	VV	29643	485938	5.10%	1.475%
202	11.937	11.924	11.970	VV	2701	57833	0.61%	0.176%
203	11.974	11.970	12.000	VV	1714	27242	0.29%	0.083%
204	12.021	12.000	12.058	VV	1617	45337	0.48%	0.138%
205	12.102	12.058	12.131	VV	9188	144404	1.52%	0.438%
206	12.149	12.131	12.158	VV	1128	14852	0.16%	0.045%
207	12.178	12.158	12.218	VV	2008	39634	0.42%	0.120%
208	12.241	12.218	12.276	VV	2620	42203	0.44%	0.128%
209	12.307	12.276	12.370	VV	11539	168353	1.77%	0.511%
210	12.376	12.370	12.384	VV	611	4322	0.05%	0.013%
211	12.391	12.384	12.396	VV	544	3339	0.04%	0.010%
212	12.404	12.396	12.414	VV	476	4471	0.05%	0.014%
213	12.418	12.414	12.427	VV	425	2400	0.03%	0.007%
214	12.431	12.427	12.465	VV	363	6442	0.07%	0.020%
215	12.508	12.465	12.520	VV	727	16507	0.17%	0.050%
216	12.529	12.520	12.549	VV	609	8985	0.09%	0.027%
217	12.562	12.549	12.585	VV	544	9711	0.10%	0.029%
218	12.677	12.585	12.721	VV	134015	1659499	17.41%	5.038%
219	12.736	12.721	12.765	VV	1365	28716	0.30%	0.087%
220	12.779	12.765	12.789	VV	739	8853	0.09%	0.027%
221	12.806	12.789	12.820	VV	714	11552	0.12%	0.035%
222	12.821	12.820	12.826	VV	634	1957	0.02%	0.006%
223	12.850	12.826	12.858	VV	945	16417	0.17%	0.050%
224	12.862	12.858	12.879	VV	968	10831	0.11%	0.033%
225	12.912	12.879	12.952	VV	5722	99253	1.04%	0.301%
226	12.984	12.952	13.021	VV	861	31946	0.34%	0.097%
227	13.040	13.021	13.071	VV	1254	30443	0.32%	0.092%
228	13.092	13.071	13.237	VV	8209	245110	2.57%	0.744%
229	13.242	13.237	13.245	VV	954	4354	0.05%	0.013%
230	13.264	13.245	13.287	VV	1145	24689	0.26%	0.075%
231	13.298	13.287	13.323	VV	962	19058	0.20%	0.058%
232	13.330	13.323	13.349	VV	803	10570	0.11%	0.032%
233	13.390	13.349	13.412	VV	2125	51292	0.54%	0.156%
234	13.431	13.412	13.462	VV	2597	38092	0.40%	0.116%
235	13.471	13.462	13.480	VV	500	4687	0.05%	0.014%
236	13.491	13.480	13.503	VV	530	6452	0.07%	0.020%
237	13.507	13.503	13.518	VV	365	2968	0.03%	0.009%
238	13.525	13.518	13.530	VV	453	2332	0.02%	0.007%
239	13.538	13.530	13.559	VV	522	5982	0.06%	0.018%
240	13.565	13.559	13.579	VV	281	2663	0.03%	0.008%
241	13.600	13.579	13.617	VV	342	3655	0.04%	0.011%
242	13.636	13.617	13.643	VV	347	4068	0.04%	0.012%
243	13.653	13.643	13.658	VV	399	2820	0.03%	0.009%
244	13.673	13.658	13.689	VV	403	6017	0.06%	0.018%
245	13.695	13.689	13.705	VV	415	2782	0.03%	0.008%
246	13.732	13.705	13.741	VV	458	6070	0.06%	0.018%

rteres

247	13.759	13.741	13.784	VV	474	8104	0.09%	0.025%
248	13.799	13.784	13.806	VV	363	3724	0.04%	0.011%
249	13.814	13.806	13.826	VV	440	4559	0.05%	0.014%
250	13.884	13.826	13.915	VV	1604	42530	0.45%	0.129%
251	13.919	13.915	13.935	VV	663	6848	0.07%	0.021%
252	13.944	13.935	13.960	VV	599	8097	0.08%	0.025%
253	13.965	13.960	13.970	VV	529	2782	0.03%	0.008%
254	13.989	13.970	13.994	VV	582	7052	0.07%	0.021%
255	13.998	13.994	14.012	VV	550	4864	0.05%	0.015%
256	14.017	14.012	14.033	VV	424	4495	0.05%	0.014%
257	14.048	14.033	14.074	VV	682	12927	0.14%	0.039%
258	14.079	14.074	14.082	VV	623	2622	0.03%	0.008%
259	14.089	14.082	14.100	VV	702	5899	0.06%	0.018%
260	14.104	14.100	14.110	VV	667	3472	0.04%	0.011%
261	14.118	14.110	14.145	VV	746	12287	0.13%	0.037%
262	14.150	14.145	14.182	VV	744	13923	0.15%	0.042%
263	14.200	14.182	14.209	VV	721	10262	0.11%	0.031%
264	14.220	14.209	14.224	VV	618	4881	0.05%	0.015%
265	14.227	14.224	14.230	VV	579	1855	0.02%	0.006%
266	14.240	14.230	14.263	VV	811	11448	0.12%	0.035%
267	14.276	14.263	14.280	VV	589	4886	0.05%	0.015%
268	14.294	14.280	14.314	VV	880	14984	0.16%	0.045%
269	14.319	14.314	14.321	VV	636	2621	0.03%	0.008%
270	14.336	14.321	14.360	VV	824	15057	0.16%	0.046%
271	14.377	14.360	14.387	VV	845	10026	0.11%	0.030%
272	14.391	14.387	14.418	VV	720	9131	0.10%	0.028%
273	14.424	14.418	14.433	VV	430	3332	0.03%	0.010%
274	14.438	14.433	14.445	VV	391	2315	0.02%	0.007%
275	14.460	14.445	14.466	VV	526	5138	0.05%	0.016%
276	14.488	14.466	14.515	VV	1731	35849	0.38%	0.109%
277	14.529	14.515	14.568	VV	2402	37995	0.40%	0.115%
278	14.587	14.568	14.620	VV	1174	17747	0.19%	0.054%
279	14.623	14.620	14.632	VV	222	1399	0.01%	0.004%
280	14.647	14.632	14.673	VV	335	4941	0.05%	0.015%
281	14.694	14.673	14.743	VV	1083	19017	0.20%	0.058%
282	14.753	14.743	14.769	VV	361	3987	0.04%	0.012%
283	14.776	14.769	14.782	VV	272	1554	0.02%	0.005%
284	14.787	14.782	14.791	VV	287	1126	0.01%	0.003%
285	14.800	14.791	14.808	VV	384	2527	0.03%	0.008%
286	14.825	14.808	14.850	VV	462	8316	0.09%	0.025%
287	14.855	14.850	14.876	VV	399	3511	0.04%	0.011%
288	14.909	14.876	14.978	VV	9008	200942	2.11%	0.610%
289	14.989	14.978	15.028	VV	1548	35527	0.37%	0.108%
290	15.066	15.028	15.131	VV	3470	79192	0.83%	0.240%
291	15.136	15.131	15.146	VV	384	2984	0.03%	0.009%
292	15.173	15.146	15.213	VV	700	19087	0.20%	0.058%
293	15.238	15.213	15.257	VV	1108	19724	0.21%	0.060%
294	15.259	15.257	15.272	VV	844	4911	0.05%	0.015%
295	15.278	15.272	15.290	VV	429	3505	0.04%	0.011%
296	15.301	15.290	15.318	VV	381	4214	0.04%	0.013%
297	15.332	15.318	15.347	VV	495	6967	0.07%	0.021%
298	15.354	15.347	15.360	VV	671	4503	0.05%	0.014%
299	15.365	15.360	15.410	VV	722	17578	0.18%	0.053%

300	15.431	15.410	15.450	VV	732	14067	0.15%	0.043%
301	15.455	15.450	15.465	VV	616	4042	0.04%	0.012%
302	15.506	15.465	15.523	VV	1263	24630	0.26%	0.075%
303	15.544	15.523	15.575	VV	2100	34169	0.36%	0.104%
304	15.580	15.575	15.642	VV	583	15031	0.16%	0.046%
305	15.647	15.642	15.683	VV	201	1332	0.01%	0.004%
306	15.728	15.688	15.739	VV	285	4548	0.05%	0.014%
307	15.747	15.739	15.776	VV	269	3932	0.04%	0.012%
308	15.784	15.776	15.792	VV	298	1337	0.01%	0.004%
309	15.798	15.792	15.812	VV	212	1833	0.02%	0.006%
310	15.824	15.812	15.830	VV	271	1528	0.02%	0.005%
311	15.839	15.830	15.845	VV	230	1130	0.01%	0.003%
312	15.850	15.845	15.879	VV	235	1961	0.02%	0.006%
313	15.924	15.888	15.930	VV	1070	13536	0.14%	0.041%
314	15.932	15.930	15.962	VV	1038	14198	0.15%	0.043%
315	15.980	15.962	15.986	VV	759	8516	0.09%	0.026%
316	15.989	15.986	16.005	VV	715	5989	0.06%	0.018%
317	16.025	16.005	16.054	VV	1089	18023	0.19%	0.055%
318	16.066	16.054	16.070	VV	309	2486	0.03%	0.008%
319	16.117	16.070	16.164	VV	1497	37740	0.40%	0.115%
320	16.169	16.164	16.172	VV	360	1627	0.02%	0.005%
321	16.185	16.172	16.192	VV	548	4482	0.05%	0.014%
322	16.195	16.192	16.199	VV	440	1417	0.01%	0.004%
323	16.202	16.199	16.211	VV	440	3034	0.03%	0.009%
324	16.242	16.211	16.272	VV	753	22248	0.23%	0.068%
325	16.276	16.272	16.293	VV	782	7127	0.07%	0.022%
326	16.315	16.293	16.330	VV	591	9779	0.10%	0.030%
327	16.334	16.330	16.347	VV	510	4408	0.05%	0.013%
328	16.354	16.347	16.360	VV	512	3719	0.04%	0.011%
329	16.386	16.360	16.391	VV	819	12519	0.13%	0.038%
330	16.406	16.391	16.427	VV	944	15155	0.16%	0.046%
331	16.433	16.427	16.435	VV	551	2391	0.03%	0.007%
332	16.456	16.435	16.467	VV	1638	22619	0.24%	0.069%
333	16.488	16.467	16.507	VV	2834	45557	0.48%	0.138%
334	16.530	16.507	16.567	VV	7908	115522	1.21%	0.351%
335	16.574	16.567	16.600	VV	830	11694	0.12%	0.035%
336	16.603	16.600	16.616	VV	468	3367	0.04%	0.010%
337	16.621	16.616	16.636	VV	368	3476	0.04%	0.011%
338	16.646	16.636	16.651	VV	432	2905	0.03%	0.009%
339	16.658	16.651	16.682	VV	479	5118	0.05%	0.016%
340	16.715	16.682	16.724	PV	293	4691	0.05%	0.014%
341	16.734	16.724	16.755	VV	333	3268	0.03%	0.010%
342	16.802	16.755	16.836	VV	1035	24823	0.26%	0.075%
343	16.859	16.836	16.891	VV	875	18562	0.19%	0.056%
344	16.903	16.891	16.909	VV	619	5755	0.06%	0.017%
345	16.937	16.909	16.973	VV	3107	51268	0.54%	0.156%
346	16.976	16.973	16.999	VV	476	4430	0.05%	0.013%
347	17.004	16.999	17.012	VV	291	1639	0.02%	0.005%
348	17.042	17.012	17.066	VV	487	11528	0.12%	0.035%
349	17.072	17.066	17.080	VV	352	2571	0.03%	0.008%
350	17.086	17.080	17.114	VV	470	6563	0.07%	0.020%
351	17.121	17.114	17.147	VV	416	6372	0.07%	0.019%

					rteres			
352	17.179	17.147	17.199	VV	538	12364	0.13%	0.038%
353	17.204	17.199	17.234	VV	392	6260	0.07%	0.019%
354	17.239	17.234	17.243	VV	273	1380	0.01%	0.004%
355	17.249	17.243	17.252	VV	343	1583	0.02%	0.005%
356	17.255	17.252	17.268	VV	350	2702	0.03%	0.008%
357	17.274	17.268	17.282	VV	420	2558	0.03%	0.008%
358	17.299	17.282	17.303	VV	386	3904	0.04%	0.012%
359	17.311	17.303	17.321	VV	518	4726	0.05%	0.014%
360	17.341	17.321	17.348	VV	1502	16598	0.17%	0.050%
361	17.370	17.348	17.399	VV	4368	67221	0.71%	0.204%
362	17.404	17.399	17.411	VV	507	2366	0.02%	0.007%
363	17.417	17.411	17.430	VV	408	3232	0.03%	0.010%
364	17.463	17.430	17.499	VV	2635	45025	0.47%	0.137%
365	17.504	17.499	17.514	VV	369	2878	0.03%	0.009%
366	17.522	17.514	17.543	VV	431	4865	0.05%	0.015%
367	17.569	17.554	17.580	VV	421	3776	0.04%	0.011%
368	17.583	17.580	17.592	VV	325	1828	0.02%	0.006%
369	17.594	17.592	17.610	VV	304	1294	0.01%	0.004%
370	17.620	17.610	17.635	PV	166	1841	0.02%	0.006%
371	17.665	17.635	17.681	VV	900	13142	0.14%	0.040%
372	17.684	17.681	17.698	VV	369	2174	0.02%	0.007%
373	17.728	17.698	17.767	VV	7595	142090	1.49%	0.431%
374	17.790	17.767	17.869	VV	4964	94678	0.99%	0.287%
375	17.894	17.869	17.929	VV	731	14540	0.15%	0.044%
376	17.934	17.929	17.949	VV	451	3342	0.04%	0.010%
377	17.957	17.949	17.975	VV	266	1894	0.02%	0.006%
378	18.000	17.975	18.027	PV	460	7467	0.08%	0.023%
379	18.056	18.027	18.080	PV	466	7463	0.08%	0.023%
380	18.096	18.080	18.112	VV	273	2462	0.03%	0.007%
381	18.199	18.112	18.273	PV	4701	102686	1.08%	0.312%
			Sum of corrected areas:			32942614		

Aromatic EPH 021125.M Sat Mar 01 04:00:09 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	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
02/26/25 11:45	02/27/25 12:14	PB166883

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	FC068309.D
Aliphatic C12-C16	Aliphatic C12-C16	8.76	J	1	3.61	20.0	ug/l	FC068309.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068309.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068309.D
Aliphatic C28-C40	Aliphatic C28-C40	60.6		1	17.0	60.0	ug/l	FC068309.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD049118.D
Aromatic C12-C16	Aromatic C12-C16	12.2	J	1	3.69	30.0	ug/l	FD049118.D
Aromatic C16-C21	Aromatic C16-C21	43.0	J	1	12.7	50.0	ug/l	FD049118.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD049118.D
Total AliphaticEPH	Total AliphaticEPH	69.4	J		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	55.2	J		44.9	180	ug/l	
Total EPH	Total EPH	125	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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	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
FC068309.D	1	02/26/25	02/27/25	PB166883

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		8.76	J	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		60.6		17.0	60.0	ug/l
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-04	Acq On:	27 Feb 2025 12:14
Client Sample ID:	P001-CLAY-CF01-01	Operator:	YP/AJ
Data file:	FC068309.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	3.104	6.370	382899	2.715	300	ug/ml
Aliphatic C12-C16	6.371	9.754	598377	4.379	200	ug/ml
Aliphatic C16-C21	9.755	13.108	523617	3.978	300	ug/ml
Aliphatic C21-C28	13.109	16.762	500495	4.079	400	ug/ml
Aliphatic C28-C40	16.763	21.566	3118558	30.322	600	ug/ml
Aliphatic EPH	3.104	21.566	5123946	45.473		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	3785768	33.66		ug/ml
Aliphatic C9-C28	3.104	16.762	2005388	15.151	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068309.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 12:14
Operator : YP/AJ
Sample : Q1421-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Mar 05 04:44:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	3785768	33.659 ug/ml
Spiked Amount 50.000		Recovery = 67.32%	
Target Compounds			

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

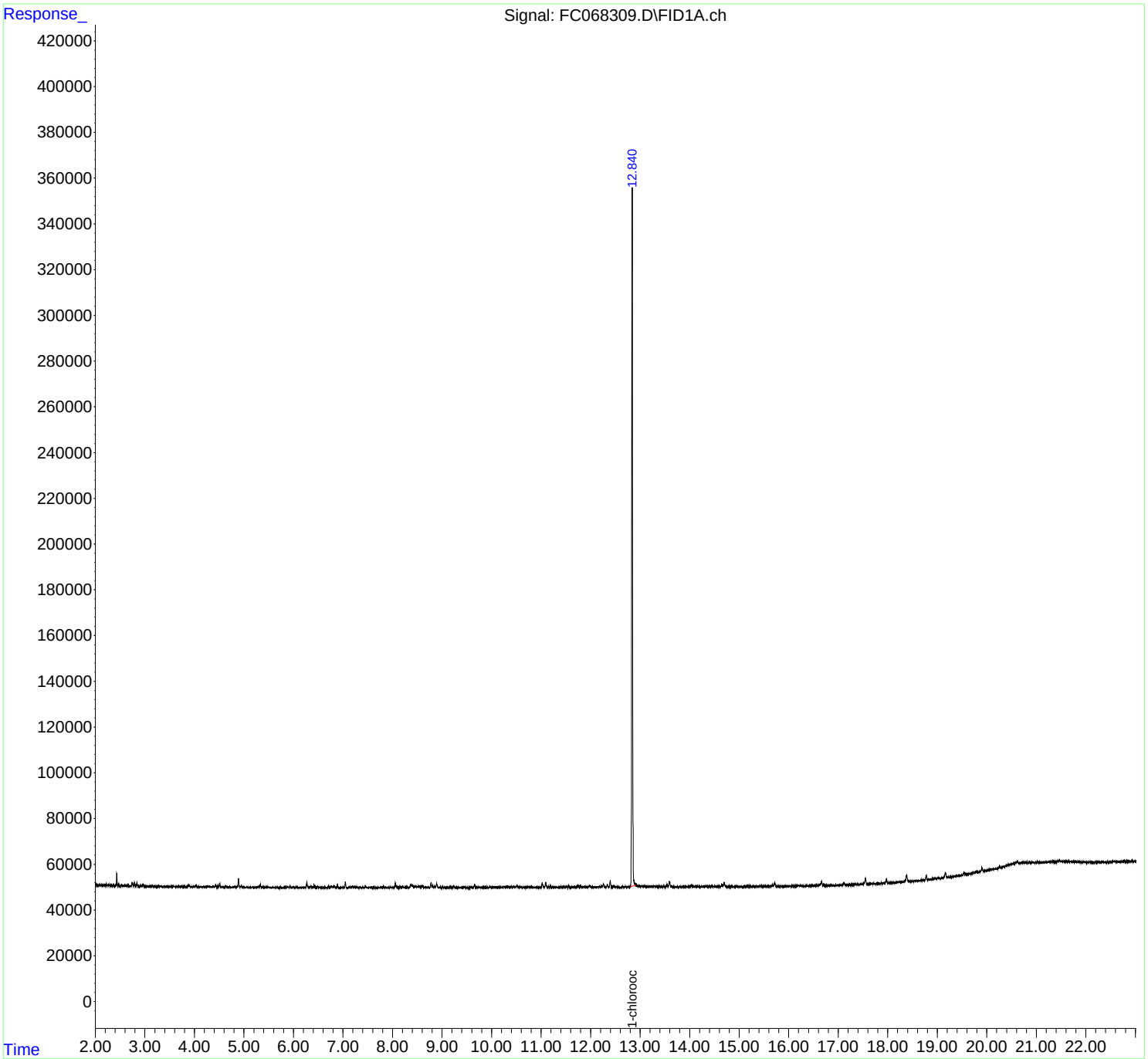
Quantitation Report (QT Reviewed)

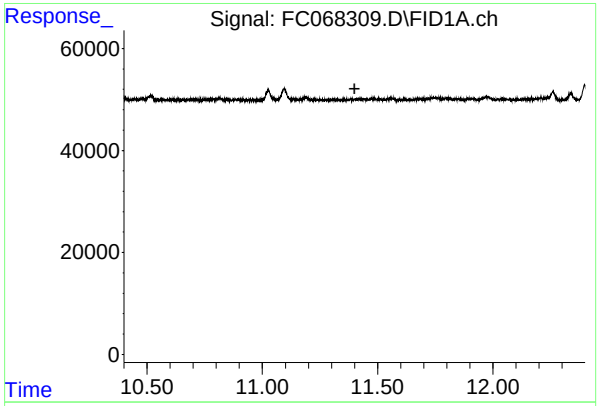
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068309.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 12:14
Operator : YP/AJ
Sample : Q1421-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Mar 05 04:44:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

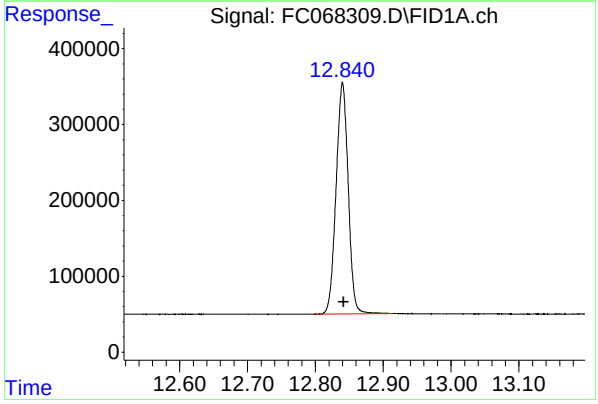




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.001 min
Response: 3785768
Conc: 33.66 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068309.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 12:14
Sample : Q1421-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.432	2.411	2.461	PV	5385	41394	1.07%	0.437%
2	2.473	2.461	2.507	VV	550	5362	0.14%	0.057%
3	2.560	2.507	2.576	VV	155	4173	0.11%	0.044%
4	2.590	2.576	2.618	VV	160	2542	0.07%	0.027%
5	2.654	2.618	2.718	PV	425	7765	0.20%	0.082%
6	2.742	2.718	2.771	VV	1400	20271	0.53%	0.214%
7	2.789	2.771	2.821	VV	1598	15922	0.41%	0.168%
8	2.839	2.821	2.901	VV	1628	16923	0.44%	0.178%
9	2.917	2.901	2.944	VV	233	3643	0.09%	0.038%
10	2.961	2.944	3.074	VV	1048	14177	0.37%	0.150%
11	3.087	3.074	3.130	VV	140	2390	0.06%	0.025%
12	3.153	3.130	3.188	VV	138	2697	0.07%	0.028%
13	3.207	3.188	3.241	VV	273	3927	0.10%	0.041%
14	3.258	3.241	3.290	VV	129	1684	0.04%	0.018%
15	3.302	3.290	3.338	PV	66	1841	0.05%	0.019%
16	3.372	3.338	3.461	VV	123	4013	0.10%	0.042%
17	3.466	3.461	3.471	VV	136	546	0.01%	0.006%
18	3.481	3.471	3.504	VV	129	1746	0.05%	0.018%
19	3.525	3.504	3.553	VV	296	3180	0.08%	0.034%
20	3.573	3.553	3.634	VV	172	4594	0.12%	0.048%
21	3.664	3.634	3.676	VV	127	2114	0.05%	0.022%
22	3.691	3.676	3.702	VV	220	2291	0.06%	0.024%
23	3.710	3.702	3.755	VV	176	3010	0.08%	0.032%
24	3.777	3.755	3.831	VV	213	4702	0.12%	0.050%
25	3.866	3.831	3.878	VV	470	5474	0.14%	0.058%
26	3.894	3.878	3.946	VV	945	11417	0.30%	0.120%
27	3.959	3.946	3.986	VV	178	1983	0.05%	0.021%
28	4.039	3.986	4.128	PV	764	16291	0.42%	0.172%
29	4.144	4.128	4.178	VV	121	2612	0.07%	0.028%
30	4.214	4.178	4.231	VV	203	4022	0.10%	0.042%
31	4.263	4.231	4.283	VV	650	8562	0.22%	0.090%
32	4.300	4.283	4.351	VV	216	5344	0.14%	0.056%
33	4.372	4.351	4.404	VV	373	6745	0.17%	0.071%
34	4.428	4.404	4.466	VV	1170	16764	0.43%	0.177%
35	4.484	4.466	4.498	VV	860	9589	0.25%	0.101%
36	4.514	4.498	4.535	VV	1552	15860	0.41%	0.167%

rteres

37	4.544	4.535	4.596	VV	167	4431	0.11%	0.047%
38	4.631	4.596	4.671	VV	220	6143	0.16%	0.065%
39	4.710	4.671	4.737	VV	161	3059	0.08%	0.032%
40	4.751	4.737	4.763	PV	98	523	0.01%	0.006%
41	4.812	4.763	4.831	VV	287	3755	0.10%	0.040%
42	4.890	4.831	4.922	VV	3860	49266	1.28%	0.520%
43	4.947	4.922	4.985	VV	815	10616	0.28%	0.112%
44	4.994	4.985	5.021	VV	137	2227	0.06%	0.023%
45	5.024	5.021	5.032	VV	154	549	0.01%	0.006%
46	5.055	5.032	5.063	VV	125	1778	0.05%	0.019%
47	5.083	5.063	5.150	VV	279	6778	0.18%	0.071%
48	5.179	5.150	5.241	VV	215	7058	0.18%	0.074%
49	5.256	5.241	5.272	VV	217	3058	0.08%	0.032%
50	5.293	5.272	5.311	VV	432	6558	0.17%	0.069%
51	5.333	5.311	5.355	VV	1229	14881	0.39%	0.157%
52	5.389	5.355	5.439	VV	367	8839	0.23%	0.093%
53	5.477	5.439	5.492	VV	325	5989	0.16%	0.063%
54	5.502	5.492	5.553	VV	151	3575	0.09%	0.038%
55	5.582	5.553	5.627	PV	248	5702	0.15%	0.060%
56	5.636	5.627	5.650	VV	185	1517	0.04%	0.016%
57	5.663	5.650	5.721	VV	159	3389	0.09%	0.036%
58	5.745	5.721	5.771	VV	141	2014	0.05%	0.021%
59	5.841	5.771	5.868	VV	263	8724	0.23%	0.092%
60	5.887	5.868	5.905	VV	367	4848	0.13%	0.051%
61	5.930	5.905	5.970	VV	506	9635	0.25%	0.102%
62	5.990	5.970	6.025	VV	279	6276	0.16%	0.066%
63	6.061	6.025	6.095	VV	328	8367	0.22%	0.088%
64	6.104	6.095	6.130	VV	114	1837	0.05%	0.019%
65	6.146	6.130	6.182	VV	124	3266	0.08%	0.034%
66	6.189	6.182	6.240	VV	169	3608	0.09%	0.038%
67	6.270	6.240	6.333	VV	2494	35207	0.91%	0.371%
68	6.352	6.333	6.371	VV	639	8418	0.22%	0.089%
69	6.388	6.371	6.404	VV	434	5162	0.13%	0.054%
70	6.418	6.404	6.441	VV	1042	11891	0.31%	0.125%
71	6.451	6.441	6.468	VV	374	3920	0.10%	0.041%
72	6.490	6.468	6.554	VV	578	9416	0.24%	0.099%
73	6.566	6.554	6.583	VV	131	1796	0.05%	0.019%
74	6.593	6.583	6.618	VV	135	2129	0.06%	0.022%
75	6.637	6.618	6.648	VV	177	1942	0.05%	0.020%
76	6.662	6.648	6.688	VV	147	2145	0.06%	0.023%
77	6.710	6.688	6.738	VV	666	8290	0.21%	0.087%
78	6.761	6.738	6.794	VV	647	12449	0.32%	0.131%
79	6.812	6.794	6.857	VV	657	13889	0.36%	0.146%
80	6.888	6.857	6.912	VV	1102	15654	0.41%	0.165%
81	6.925	6.912	6.935	VV	227	1640	0.04%	0.017%
82	6.944	6.935	6.953	VV	138	819	0.02%	0.009%
83	6.971	6.953	6.980	VV	168	2163	0.06%	0.023%
84	6.992	6.980	7.020	VV	230	3163	0.08%	0.033%
85	7.049	7.020	7.079	VV	2678	29242	0.76%	0.308%
86	7.126	7.079	7.138	VV	350	7192	0.19%	0.076%
87	7.155	7.138	7.168	VV	394	4767	0.12%	0.050%
88	7.190	7.168	7.215	VV	766	11824	0.31%	0.125%
89	7.252	7.215	7.268	VV	457	8185	0.21%	0.086%

rteres

90	7.280	7.268	7.321	VV	478	7111	0.18%	0.075%
91	7.335	7.321	7.375	VV	189	3598	0.09%	0.038%
92	7.394	7.375	7.421	VV	206	2555	0.07%	0.027%
93	7.450	7.421	7.488	PV	901	11631	0.30%	0.123%
94	7.531	7.488	7.575	VV	277	8167	0.21%	0.086%
95	7.598	7.575	7.626	VV	225	4614	0.12%	0.049%
96	7.638	7.626	7.659	VV	120	1870	0.05%	0.020%
97	7.671	7.659	7.698	VV	145	2104	0.05%	0.022%
98	7.710	7.698	7.733	VV	168	2228	0.06%	0.023%
99	7.755	7.733	7.780	VV	498	6593	0.17%	0.070%
100	7.811	7.780	7.897	VV	580	13123	0.34%	0.138%
101	7.915	7.897	7.946	VV	166	2778	0.07%	0.029%
102	7.967	7.946	7.992	VV	359	4761	0.12%	0.050%
103	8.002	7.992	8.032	VV	137	2553	0.07%	0.027%
104	8.059	8.032	8.129	VV	2198	35920	0.93%	0.379%
105	8.153	8.129	8.188	VV	435	9747	0.25%	0.103%
106	8.207	8.188	8.229	VV	369	6215	0.16%	0.066%
107	8.252	8.229	8.273	VV	358	5270	0.14%	0.056%
108	8.288	8.273	8.336	VV	437	6363	0.16%	0.067%
109	8.369	8.336	8.496	PV	1536	64001	1.66%	0.675%
110	8.517	8.496	8.534	VV	645	10669	0.28%	0.113%
111	8.543	8.534	8.556	VV	459	5512	0.14%	0.058%
112	8.565	8.556	8.578	VV	408	4766	0.12%	0.050%
113	8.598	8.578	8.637	VV	715	16110	0.42%	0.170%
114	8.659	8.637	8.681	VV	355	5995	0.16%	0.063%
115	8.709	8.681	8.735	VV	386	6293	0.16%	0.066%
116	8.777	8.735	8.800	VV	2150	30799	0.80%	0.325%
117	8.812	8.800	8.864	VV	828	21060	0.55%	0.222%
118	8.892	8.864	8.941	VV	1867	32053	0.83%	0.338%
119	8.965	8.941	8.994	VV	452	7693	0.20%	0.081%
120	9.014	8.994	9.043	VV	325	5186	0.13%	0.055%
121	9.065	9.043	9.083	VV	163	3384	0.09%	0.036%
122	9.095	9.083	9.103	VV	218	2028	0.05%	0.021%
123	9.108	9.103	9.115	VV	194	1313	0.03%	0.014%
124	9.122	9.115	9.140	VV	182	1944	0.05%	0.021%
125	9.180	9.140	9.214	VV	385	9010	0.23%	0.095%
126	9.241	9.214	9.284	VV	718	11899	0.31%	0.125%
127	9.311	9.284	9.334	PV	175	3604	0.09%	0.038%
128	9.347	9.334	9.359	VV	164	1327	0.03%	0.014%
129	9.382	9.359	9.411	VV	321	4235	0.11%	0.045%
130	9.435	9.411	9.472	VV	395	7141	0.18%	0.075%
131	9.486	9.472	9.504	VV	228	2595	0.07%	0.027%
132	9.509	9.504	9.561	VV	118	1998	0.05%	0.021%
133	9.575	9.561	9.630	VV	383	7549	0.20%	0.080%
134	9.656	9.630	9.708	VV	1186	20996	0.54%	0.221%
135	9.750	9.708	9.849	VV	323	14338	0.37%	0.151%
136	9.879	9.849	9.904	VV	119	2588	0.07%	0.027%
137	9.967	9.904	9.989	VV	343	8523	0.22%	0.090%
138	10.045	9.989	10.074	VV	353	10165	0.26%	0.107%
139	10.082	10.074	10.103	VV	341	3923	0.10%	0.041%
140	10.136	10.103	10.208	VV	309	10722	0.28%	0.113%
141	10.249	10.208	10.302	VV	354	13416	0.35%	0.141%

rteres

142	10.333	10.302	10.358	VV	469	10073	0.26%	0.106%
143	10.396	10.358	10.426	VV	488	13508	0.35%	0.142%
144	10.444	10.426	10.461	VV	366	5237	0.14%	0.055%
145	10.478	10.461	10.486	VV	323	4036	0.10%	0.043%
146	10.515	10.486	10.561	VV	987	20295	0.53%	0.214%
147	10.580	10.561	10.628	VV	277	7498	0.19%	0.079%
148	10.678	10.628	10.688	VV	218	5351	0.14%	0.056%
149	10.708	10.688	10.734	VV	271	5398	0.14%	0.057%
150	10.754	10.734	10.767	VV	214	3548	0.09%	0.037%
151	10.782	10.767	10.794	VV	275	3691	0.10%	0.039%
152	10.815	10.794	10.835	VV	483	7674	0.20%	0.081%
153	10.847	10.835	10.864	VV	175	2473	0.06%	0.026%
154	10.895	10.864	10.981	VV	212	7716	0.20%	0.081%
155	11.025	10.981	11.061	VV	2032	31891	0.83%	0.336%
156	11.095	11.061	11.171	VV	2357	42976	1.11%	0.453%
157	11.188	11.171	11.235	VV	731	11330	0.29%	0.119%
158	11.246	11.235	11.271	VV	210	2249	0.06%	0.024%
159	11.313	11.271	11.324	VV	177	3354	0.09%	0.035%
160	11.334	11.324	11.342	VV	140	1202	0.03%	0.013%
161	11.438	11.342	11.462	VV	297	13991	0.36%	0.148%
162	11.480	11.462	11.521	VV	416	9009	0.23%	0.095%
163	11.556	11.521	11.590	VV	401	9735	0.25%	0.103%
164	11.679	11.590	11.694	VV	246	9854	0.26%	0.104%
165	11.752	11.694	11.777	VV	503	18662	0.48%	0.197%
166	11.796	11.777	11.828	VV	393	9458	0.25%	0.100%
167	11.850	11.828	11.867	VV	263	4660	0.12%	0.049%
168	11.894	11.867	11.940	VV	368	10253	0.27%	0.108%
169	11.975	11.940	12.011	VV	750	17219	0.45%	0.182%
170	12.031	12.011	12.094	VV	267	8060	0.21%	0.085%
171	12.260	12.094	12.297	VV	1640	45977	1.19%	0.485%
172	12.337	12.297	12.374	VV	1359	21064	0.55%	0.222%
173	12.398	12.374	12.447	VV	2995	40915	1.06%	0.432%
174	12.467	12.447	12.498	VV	502	6641	0.17%	0.070%
175	12.514	12.498	12.525	VV	197	3137	0.08%	0.033%
176	12.535	12.525	12.598	VV	216	4538	0.12%	0.048%
177	12.601	12.598	12.630	VV	118	1247	0.03%	0.013%
178	12.673	12.630	12.704	PV	272	7208	0.19%	0.076%
179	12.720	12.704	12.734	VV	228	2629	0.07%	0.028%
180	12.764	12.734	12.783	VV	226	5478	0.14%	0.058%
181	12.840	12.783	12.985	VV	304925	3860404	100.00%	40.714%
182	13.006	12.985	13.048	VV	705	19506	0.51%	0.206%
183	13.063	13.048	13.111	VV	536	15539	0.40%	0.164%
184	13.126	13.111	13.151	VV	385	7795	0.20%	0.082%
185	13.213	13.151	13.243	VV	456	19528	0.51%	0.206%
186	13.285	13.243	13.330	VV	488	18570	0.48%	0.196%
187	13.357	13.330	13.374	VV	283	6412	0.17%	0.068%
188	13.387	13.374	13.404	VV	294	4466	0.12%	0.047%
189	13.442	13.404	13.483	VV	336	12812	0.33%	0.135%
190	13.543	13.483	13.571	VV	1198	24045	0.62%	0.254%
191	13.595	13.571	13.641	VV	2517	39840	1.03%	0.420%
192	13.648	13.641	13.668	VV	184	3027	0.08%	0.032%
193	13.673	13.668	13.711	VV	211	4077	0.11%	0.043%
194	13.720	13.711	13.761	VV	169	3118	0.08%	0.033%

rteres

195	13.770	13.761	13.784	VV	141	1006	0.03%	0.011%
196	13.806	13.784	13.861	PV	175	6354	0.16%	0.067%
197	13.869	13.861	13.878	VV	140	1282	0.03%	0.014%
198	13.887	13.878	13.914	VV	106	2425	0.06%	0.026%
199	13.925	13.914	13.945	VV	159	2253	0.06%	0.024%
200	13.954	13.945	14.000	VV	192	4456	0.12%	0.047%
201	14.032	14.000	14.071	VV	971	19824	0.51%	0.209%
202	14.080	14.071	14.130	VV	278	7116	0.18%	0.075%
203	14.154	14.130	14.191	VV	324	8086	0.21%	0.085%
204	14.217	14.191	14.230	VV	261	4544	0.12%	0.048%
205	14.248	14.230	14.277	VV	285	6597	0.17%	0.070%
206	14.297	14.277	14.314	VV	330	5707	0.15%	0.060%
207	14.330	14.314	14.383	VV	292	9699	0.25%	0.102%
208	14.409	14.383	14.440	VV	262	7535	0.20%	0.079%
209	14.462	14.440	14.498	VV	288	9354	0.24%	0.099%
210	14.504	14.498	14.600	VV	272	12550	0.33%	0.132%
211	14.652	14.600	14.671	VV	1077	18463	0.48%	0.195%
212	14.695	14.671	14.767	VV	2005	37019	0.96%	0.390%
213	14.777	14.767	14.801	VV	165	1810	0.05%	0.019%
214	14.809	14.801	14.838	VV	163	1748	0.05%	0.018%
215	14.861	14.838	14.892	PV	207	4958	0.13%	0.052%
216	14.901	14.892	14.910	VV	142	1103	0.03%	0.012%
217	14.920	14.910	14.952	VV	121	2003	0.05%	0.021%
218	14.968	14.952	14.987	VV	130	1555	0.04%	0.016%
219	15.003	14.987	15.030	VV	158	2004	0.05%	0.021%
220	15.044	15.030	15.054	VV	104	1034	0.03%	0.011%
221	15.063	15.054	15.094	VV	129	1699	0.04%	0.018%
222	15.120	15.094	15.148	VV	183	3809	0.10%	0.040%
223	15.163	15.148	15.193	VV	222	3881	0.10%	0.041%
224	15.216	15.193	15.251	VV	314	6103	0.16%	0.064%
225	15.265	15.251	15.284	VV	126	2053	0.05%	0.022%
226	15.314	15.284	15.338	VV	128	3220	0.08%	0.034%
227	15.351	15.338	15.364	VV	162	2003	0.05%	0.021%
228	15.406	15.364	15.411	VV	177	4216	0.11%	0.044%
229	15.418	15.411	15.428	VV	189	1419	0.04%	0.015%
230	15.454	15.428	15.469	VV	179	3165	0.08%	0.033%
231	15.504	15.469	15.545	VV	288	6778	0.18%	0.071%
232	15.556	15.545	15.569	VV	198	2630	0.07%	0.028%
233	15.574	15.569	15.634	VV	202	5304	0.14%	0.056%
234	15.677	15.634	15.692	VV	769	12050	0.31%	0.127%
235	15.716	15.692	15.752	VV	1728	27648	0.72%	0.292%
236	15.761	15.752	15.801	VV	237	3706	0.10%	0.039%
237	15.817	15.801	15.829	VV	133	1617	0.04%	0.017%
238	15.860	15.829	15.929	PV	115	4145	0.11%	0.044%
239	15.945	15.929	15.964	VV	129	1367	0.04%	0.014%
240	15.997	15.964	16.025	PV	120	1968	0.05%	0.021%
241	16.035	16.025	16.061	VV	108	1369	0.04%	0.014%
242	16.074	16.061	16.092	VV	138	1401	0.04%	0.015%
243	16.106	16.092	16.141	VV	130	1846	0.05%	0.019%
244	16.198	16.141	16.288	PV	431	13028	0.34%	0.137%
245	16.294	16.288	16.340	VV	98	2075	0.05%	0.022%
246	16.419	16.340	16.442	VV	185	5936	0.15%	0.063%

rteres

247	16.449	16.442	16.478	VV	151	2272	0.06%	0.024%
248	16.503	16.478	16.531	VV	162	2805	0.07%	0.030%
249	16.566	16.531	16.605	VV	215	5697	0.15%	0.060%
250	16.629	16.605	16.640	VV	598	7686	0.20%	0.081%
251	16.664	16.640	16.740	VV	1845	33424	0.87%	0.353%
252	16.763	16.740	16.828	VV	142	4741	0.12%	0.050%
253	16.831	16.828	16.911	VV	130	2313	0.06%	0.024%
254	16.945	16.911	16.957	PV	135	1514	0.04%	0.016%
255	16.984	16.957	17.003	VV	88	1202	0.03%	0.013%
256	17.017	17.003	17.026	VV	105	656	0.02%	0.007%
257	17.043	17.026	17.058	PV	78	956	0.02%	0.010%
258	17.114	17.058	17.207	VV	1151	21274	0.55%	0.224%
259	17.282	17.207	17.320	VV	80	2971	0.08%	0.031%
260	17.333	17.320	17.368	PV	87	2000	0.05%	0.021%
261	17.401	17.368	17.414	VV	119	2694	0.07%	0.028%
262	17.418	17.414	17.431	VV	93	662	0.02%	0.007%
263	17.446	17.431	17.470	PV	142	2023	0.05%	0.021%
264	17.549	17.470	17.589	VV	2702	50782	1.32%	0.536%
265	17.597	17.589	17.608	VV	156	1129	0.03%	0.012%
266	17.634	17.608	17.666	PV	179	2975	0.08%	0.031%
267	17.735	17.666	17.793	VV	160	6652	0.17%	0.070%
268	17.832	17.793	17.847	PV	156	3636	0.09%	0.038%
269	17.858	17.847	17.884	VV	129	2162	0.06%	0.023%
270	17.972	17.884	18.018	VV	2004	35727	0.93%	0.377%
271	18.145	18.018	18.161	VV	130	7024	0.18%	0.074%
272	18.239	18.161	18.265	PV	229	7084	0.18%	0.075%
273	18.284	18.265	18.294	VV	132	1902	0.05%	0.020%
274	18.381	18.294	18.442	VV	3056	58237	1.51%	0.614%
275	18.465	18.442	18.474	VV	128	2201	0.06%	0.023%
276	18.575	18.474	18.584	VV	116	5166	0.13%	0.054%
277	18.592	18.584	18.601	PV	180	816	0.02%	0.009%
278	18.636	18.601	18.658	VV	230	3713	0.10%	0.039%
279	18.688	18.658	18.698	VV	152	2163	0.06%	0.023%
280	18.778	18.698	18.811	PV	1966	32065	0.83%	0.338%
281	18.958	18.811	18.971	VV	216	11583	0.30%	0.122%
282	19.027	18.971	19.044	VV	348	9603	0.25%	0.101%
283	19.101	19.044	19.110	VV	229	7498	0.19%	0.079%
284	19.164	19.110	19.198	VV	2482	49411	1.28%	0.521%
285	19.398	19.198	19.427	VV	565	43746	1.13%	0.461%
286	19.476	19.427	19.487	VV	600	18943	0.49%	0.200%
287	19.539	19.487	19.572	VV	1803	46001	1.19%	0.485%
288	19.605	19.572	19.615	VV	670	16286	0.42%	0.172%
289	19.801	19.615	19.845	VV	1526	137308	3.56%	1.448%
290	19.902	19.845	19.941	VV	2806	98683	2.56%	1.041%
291	19.970	19.941	19.991	VV	1512	43030	1.11%	0.454%
292	20.176	19.991	20.187	VV	1817	190675	4.94%	2.011%
293	20.258	20.187	20.297	VV	2619	134826	3.49%	1.422%
294	20.438	20.297	20.458	VV	3103	244924	6.34%	2.583%
295	20.616	20.458	20.662	VV	4071	402522	10.43%	4.245%
296	20.697	20.662	20.714	VV	3300	102225	2.65%	1.078%
297	20.728	20.714	20.741	VV	3208	51558	1.34%	0.544%
298	20.866	20.741	20.897	VV	3031	285156	7.39%	3.007%
299	20.935	20.897	20.971	VV	2905	125632	3.25%	1.325%

rteres

300	21.017	20.971	21.077	VV	2880	172990	4.48%	1.824%
301	21.158	21.077	21.194	VV	2450	173418	4.49%	1.829%
302	21.272	21.194	21.334	VV	2359	192086	4.98%	2.026%
303	21.468	21.334	21.518	VV	2497	240746	6.24%	2.539%
304	21.542	21.518	21.564	VV	1922	53268	1.38%	0.562%
305	21.601	21.564	21.671	VV	1792	109451	2.84%	1.154%
306	21.679	21.671	21.835	VV	1608	130782	3.39%	1.379%
307	21.868	21.835	21.918	VV	1071	47646	1.23%	0.503%
308	21.939	21.918	21.968	VV	816	23409	0.61%	0.247%
309	21.982	21.968	22.121	VV	760	43679	1.13%	0.461%
310	22.143	22.121	22.208	VV	245	7858	0.20%	0.083%

Sum of corrected areas: 9481730

Aliphatic EPH 021125.M Fri Feb 28 01:13:46 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	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
FD049118.D	1	02/26/25	02/27/25	PB166883

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	12.2	J	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	43.0	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)	60.2		40 - 140	120%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	61.8		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	54.1		40 - 140	108%	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:	Q1421-04	Acq On:	27 Feb 2025 12:14
Client Sample ID:	P001-CLAY-CF01-01	Operator:	YP/AJ
Data file:	FD049118.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	698221	4.391	200	ug/ml
Aromatic C12-C16	5.795	8.397	978814	6.082	300	ug/ml
Aromatic C16-C21	8.398	12.661	3299543	21.515	500	ug/ml
Aromatic C21-C36	12.662	18.071	3819898	26.691	800	ug/ml
Aromatic EPH	4.076	18.071	8796476	58.679		ug/ml
2-Bromonaphthalene (SURR)	7.353	7.353	8613080	60.19		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5429412	61.76		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8755655	54.12		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049118.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 12:14
Operator : YP/AJ
Sample : Q1421-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Feb 28 01:26:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.353	8613080	60.185 ug/ml
Spiked Amount 50.000		Recovery = 120.37%	
6) S 2-Flurobiphenyl (SURR)	8.203	5429412	61.760 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 123.52%	
11) S ortho-Terphenyl (SURR)	11.237	8755655	54.123 ug/ml
Spiked Amount 50.000		Recovery = 108.25%	
Target Compounds			

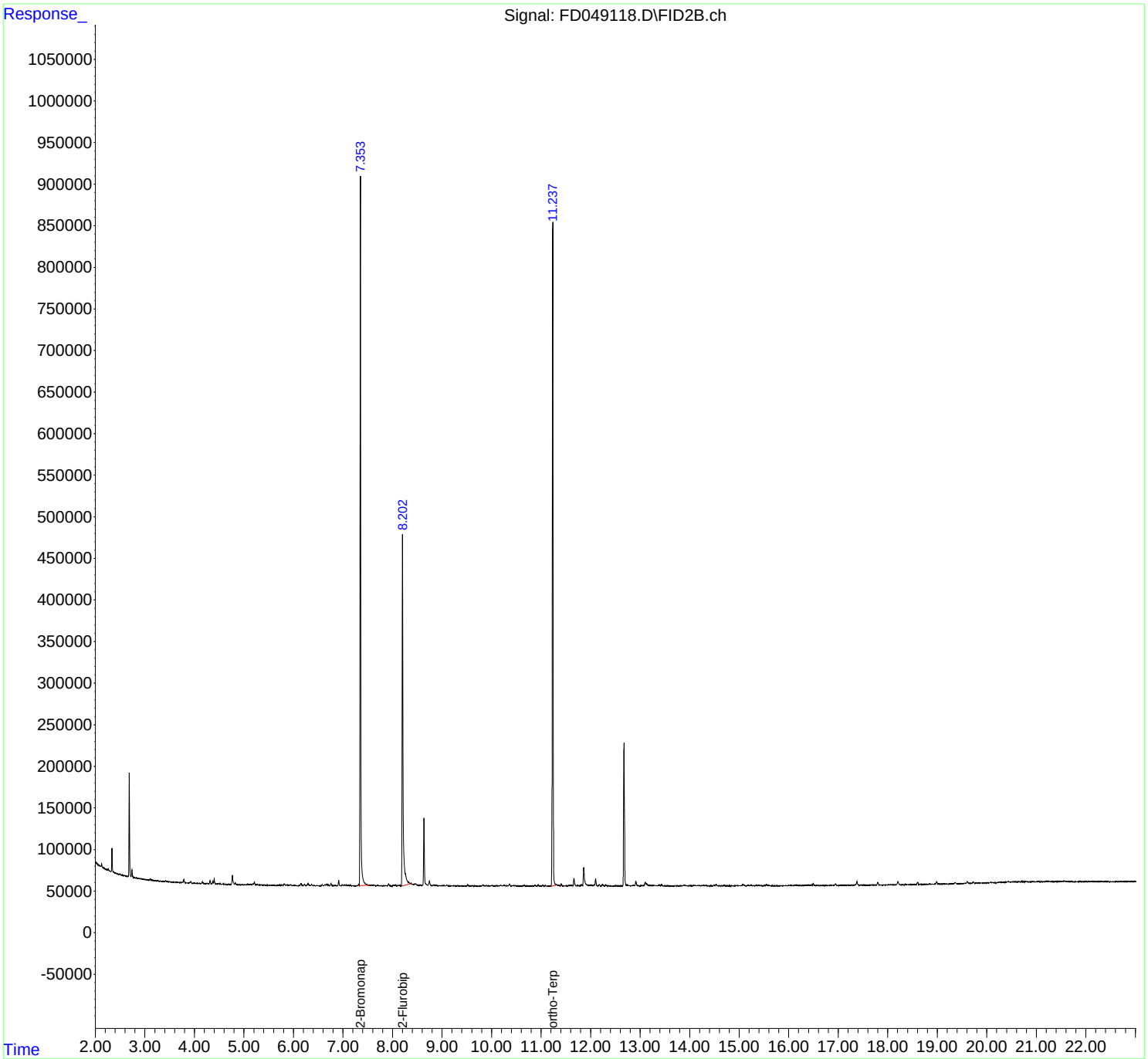
(f)=RT Delta > 1/2 Window (m)=manual int.

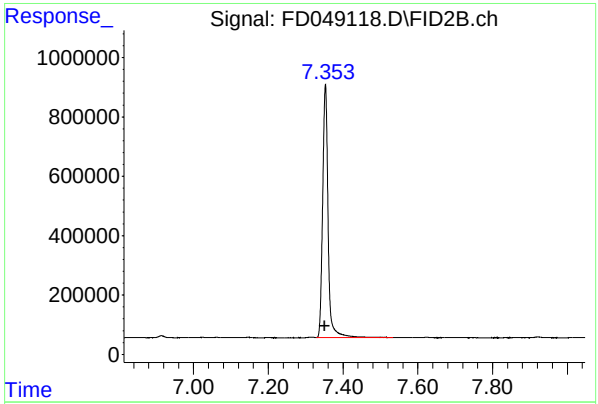
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049118.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 12:14
Operator : YP/AJ
Sample : Q1421-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01

Integration File: autoint1.e
Quant Time: Feb 28 01:26:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

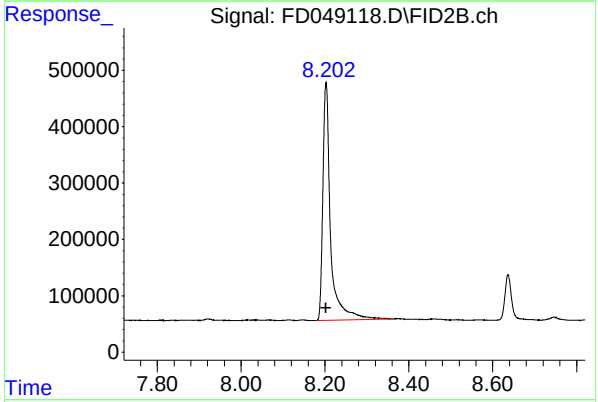




#4 2-Bromonaphthalene (SURR)

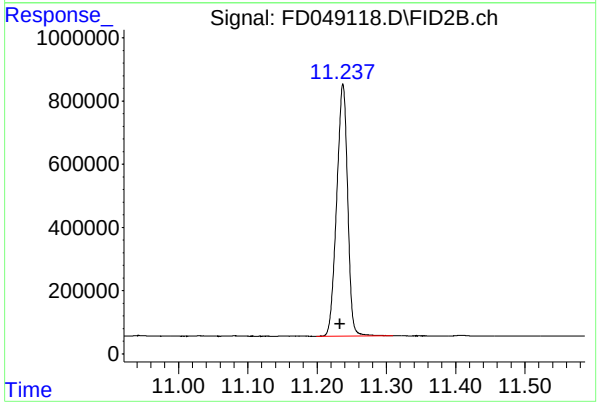
R.T.: 7.353 min
Delta R.T.: 0.002 min
Response: 8613080
Conc: 60.19 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 5429412
Conc: 61.76 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.004 min
Response: 8755655
Conc: 54.12 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049118.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 12:14
Sample : Q1421-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.051	4.042	4.077	BV	272	2653	0.03%	0.008%
2	4.085	4.077	4.105	PV	249	2175	0.02%	0.007%
3	4.112	4.105	4.120	VV	167	1006	0.01%	0.003%
4	4.159	4.129	4.191	VV	2191	31227	0.35%	0.097%
5	4.195	4.191	4.204	VV	341	1699	0.02%	0.005%
6	4.218	4.204	4.232	PV	288	2452	0.03%	0.008%
7	4.263	4.232	4.283	VV	899	12413	0.14%	0.039%
8	4.315	4.283	4.352	VV	4095	49271	0.56%	0.154%
9	4.370	4.352	4.383	VV	3375	34655	0.39%	0.108%
10	4.399	4.383	4.442	VV	6224	73782	0.84%	0.230%
11	4.446	4.442	4.455	VV	321	1587	0.02%	0.005%
12	4.462	4.455	4.471	VV	282	2092	0.02%	0.007%
13	4.486	4.471	4.498	VV	810	9274	0.10%	0.029%
14	4.512	4.498	4.563	VV	889	17139	0.19%	0.054%
15	4.585	4.563	4.609	VV	931	14130	0.16%	0.044%
16	4.614	4.609	4.642	VV	696	4517	0.05%	0.014%
17	4.654	4.651	4.665	VV	229	1270	0.01%	0.004%
18	4.691	4.665	4.709	VV	677	8921	0.10%	0.028%
19	4.717	4.709	4.722	VV	263	1417	0.02%	0.004%
20	4.768	4.722	4.810	VV	11657	165568	1.87%	0.517%
21	4.826	4.810	4.877	VV	2372	33180	0.38%	0.104%
22	4.892	4.877	4.906	VV	266	2858	0.03%	0.009%
23	4.926	4.906	4.951	VV	265	4369	0.05%	0.014%
24	4.971	4.951	4.989	VV	618	7573	0.09%	0.024%
25	4.995	4.989	5.020	VV	323	3293	0.04%	0.010%
26	5.030	5.020	5.037	VV	225	1175	0.01%	0.004%
27	5.049	5.037	5.053	VV	214	1299	0.01%	0.004%
28	5.079	5.053	5.126	VV	1043	29794	0.34%	0.093%
29	5.137	5.126	5.161	VV	985	13251	0.15%	0.041%
30	5.178	5.161	5.195	VV	1585	21891	0.25%	0.068%
31	5.212	5.195	5.236	VV	3835	45478	0.51%	0.142%
32	5.240	5.236	5.252	VV	557	4081	0.05%	0.013%
33	5.268	5.252	5.300	VV	1074	15878	0.18%	0.050%
34	5.314	5.300	5.322	VV	309	3048	0.03%	0.010%
35	5.344	5.322	5.385	VV	577	14348	0.16%	0.045%
36	5.392	5.385	5.403	VV	349	2364	0.03%	0.007%

rteres

37	5.418	5.403	5.436	VV	458	4390	0.05%	0.014%
38	5.444	5.436	5.449	VV	195	1271	0.01%	0.004%
39	5.464	5.449	5.483	VV	482	5846	0.07%	0.018%
40	5.495	5.483	5.504	VV	309	1939	0.02%	0.006%
41	5.517	5.504	5.522	VV	296	1860	0.02%	0.006%
42	5.529	5.522	5.543	VV	293	2332	0.03%	0.007%
43	5.575	5.543	5.623	PV	480	11080	0.13%	0.035%
44	5.642	5.623	5.652	VV	193	2004	0.02%	0.006%
45	5.696	5.667	5.715	VV	444	7353	0.08%	0.023%
46	5.729	5.715	5.759	VV	637	9544	0.11%	0.030%
47	5.769	5.759	5.790	VV	1000	12127	0.14%	0.038%
48	5.813	5.790	5.845	VV	2409	39278	0.44%	0.123%
49	5.851	5.845	5.859	VV	745	5268	0.06%	0.016%
50	5.871	5.859	5.904	VV	933	17385	0.20%	0.054%
51	5.940	5.904	5.982	VV	1144	27868	0.32%	0.087%
52	5.987	5.982	5.992	VV	248	1081	0.01%	0.003%
53	6.005	5.992	6.034	VV	319	4372	0.05%	0.014%
54	6.055	6.034	6.070	VV	258	3067	0.03%	0.010%
55	6.118	6.090	6.126	PV	493	6267	0.07%	0.020%
56	6.153	6.126	6.202	VV	2757	54120	0.61%	0.169%
57	6.221	6.202	6.248	VV	1839	23961	0.27%	0.075%
58	6.263	6.248	6.276	VV	1052	11509	0.13%	0.036%
59	6.294	6.276	6.346	VV	3083	49943	0.57%	0.156%
60	6.367	6.346	6.390	VV	1839	24259	0.27%	0.076%
61	6.394	6.390	6.402	VV	296	1775	0.02%	0.006%
62	6.405	6.402	6.409	VV	367	1304	0.01%	0.004%
63	6.415	6.409	6.436	VV	398	4225	0.05%	0.013%
64	6.454	6.436	6.459	VV	317	3381	0.04%	0.011%
65	6.464	6.459	6.493	VV	366	5543	0.06%	0.017%
66	6.507	6.493	6.542	VV	381	5814	0.07%	0.018%
67	6.545	6.542	6.560	VV	208	1285	0.01%	0.004%
68	6.579	6.560	6.610	VV	1665	20098	0.23%	0.063%
69	6.632	6.610	6.657	VV	1550	26383	0.30%	0.082%
70	6.679	6.657	6.695	VV	1960	31997	0.36%	0.100%
71	6.705	6.695	6.732	VV	1393	17596	0.20%	0.055%
72	6.758	6.732	6.789	VV	3124	42701	0.48%	0.133%
73	6.792	6.789	6.815	VV	336	2893	0.03%	0.009%
74	6.833	6.815	6.849	VV	694	7996	0.09%	0.025%
75	6.858	6.849	6.878	VV	694	6936	0.08%	0.022%
76	6.884	6.878	6.890	VV	323	1829	0.02%	0.006%
77	6.914	6.890	6.951	VV	7097	79049	0.90%	0.247%
78	6.987	6.951	7.007	VV	1133	22427	0.25%	0.070%
79	7.024	7.007	7.048	VV	1388	23775	0.27%	0.074%
80	7.062	7.048	7.082	VV	1461	18111	0.21%	0.057%
81	7.087	7.082	7.101	VV	590	5891	0.07%	0.018%
82	7.117	7.101	7.132	VV	983	13754	0.16%	0.043%
83	7.145	7.132	7.184	VV	1458	19396	0.22%	0.061%
84	7.207	7.184	7.242	VV	489	8565	0.10%	0.027%
85	7.267	7.242	7.272	PV	358	3383	0.04%	0.011%
86	7.282	7.272	7.291	VV	275	2290	0.03%	0.007%
87	7.314	7.291	7.328	VV	2313	26279	0.30%	0.082%
88	7.353	7.328	7.564	VV	855551	8713654	98.66%	27.204%
89	7.569	7.564	7.573	VV	888	4426	0.05%	0.014%

rteres

90	7.581	7.573	7.603	VV	1155	14546	0.16%	0.045%
91	7.623	7.603	7.652	VV	1736	25707	0.29%	0.080%
92	7.656	7.652	7.661	VV	449	2145	0.02%	0.007%
93	7.683	7.661	7.699	VV	703	11606	0.13%	0.036%
94	7.714	7.699	7.735	VV	915	14855	0.17%	0.046%
95	7.744	7.735	7.781	VV	484	9215	0.10%	0.029%
96	7.787	7.781	7.790	VV	249	1424	0.02%	0.004%
97	7.804	7.790	7.824	VV	431	6299	0.07%	0.020%
98	7.836	7.824	7.850	VV	580	6217	0.07%	0.019%
99	7.866	7.850	7.887	VV	881	13147	0.15%	0.041%
100	7.893	7.887	7.900	VV	556	3662	0.04%	0.011%
101	7.921	7.900	7.942	VV	2914	37733	0.43%	0.118%
102	7.951	7.942	7.995	VV	855	12383	0.14%	0.039%
103	8.017	7.995	8.023	VV	1092	11332	0.13%	0.035%
104	8.031	8.023	8.054	VV	1151	16988	0.19%	0.053%
105	8.065	8.054	8.090	VV	1104	14651	0.17%	0.046%
106	8.112	8.090	8.129	VV	1282	15559	0.18%	0.049%
107	8.148	8.129	8.177	VV	1293	15396	0.17%	0.048%
108	8.203	8.177	8.363	VV	423197	5601765	63.43%	17.489%
109	8.376	8.363	8.402	VV	3455	68469	0.78%	0.214%
110	8.413	8.402	8.440	VV	2396	50891	0.58%	0.159%
111	8.458	8.440	8.497	VV	2957	76136	0.86%	0.238%
112	8.515	8.497	8.533	VV	1552	27596	0.31%	0.086%
113	8.538	8.533	8.546	VV	921	7016	0.08%	0.022%
114	8.567	8.546	8.595	VV	1381	31877	0.36%	0.100%
115	8.637	8.595	8.713	VV	81988	955442	10.82%	2.983%
116	8.746	8.713	8.806	VV	6303	127364	1.44%	0.398%
117	8.826	8.806	8.852	VV	1778	33102	0.37%	0.103%
118	8.871	8.852	8.899	VV	1320	24522	0.28%	0.077%
119	8.912	8.899	8.917	VV	590	5568	0.06%	0.017%
120	8.928	8.917	8.938	VV	679	7466	0.08%	0.023%
121	8.947	8.938	8.964	VV	831	10372	0.12%	0.032%
122	8.972	8.964	8.980	VV	684	5954	0.07%	0.019%
123	8.990	8.980	9.002	VV	575	7154	0.08%	0.022%
124	9.019	9.002	9.033	VV	990	15348	0.17%	0.048%
125	9.039	9.033	9.068	VV	897	13809	0.16%	0.043%
126	9.096	9.068	9.123	VV	1544	29751	0.34%	0.093%
127	9.129	9.123	9.153	VV	575	7032	0.08%	0.022%
128	9.164	9.153	9.195	VV	527	11283	0.13%	0.035%
129	9.201	9.195	9.212	VV	612	4789	0.05%	0.015%
130	9.217	9.212	9.223	VV	458	2537	0.03%	0.008%
131	9.248	9.223	9.264	VV	1041	15430	0.17%	0.048%
132	9.307	9.264	9.312	VV	559	10414	0.12%	0.033%
133	9.317	9.312	9.327	VV	512	3809	0.04%	0.012%
134	9.340	9.327	9.362	VV	537	7106	0.08%	0.022%
135	9.371	9.362	9.385	VV	490	5872	0.07%	0.018%
136	9.392	9.385	9.410	VV	549	6132	0.07%	0.019%
137	9.414	9.410	9.424	VV	360	2001	0.02%	0.006%
138	9.428	9.424	9.431	VV	339	1422	0.02%	0.004%
139	9.444	9.431	9.458	VV	609	7189	0.08%	0.022%
140	9.464	9.458	9.483	VV	486	4519	0.05%	0.014%
141	9.519	9.483	9.560	VV	1819	32994	0.37%	0.103%

rteres

142	9.586	9.560	9.595	VV	809	11053	0.13%	0.035%
143	9.600	9.595	9.631	VV	746	12568	0.14%	0.039%
144	9.657	9.631	9.668	VV	564	9259	0.10%	0.029%
145	9.690	9.668	9.712	VV	514	7356	0.08%	0.023%
146	9.735	9.717	9.740	PV	233	1974	0.02%	0.006%
147	9.765	9.740	9.777	VV	521	8010	0.09%	0.025%
148	9.786	9.777	9.797	VV	537	5186	0.06%	0.016%
149	9.823	9.797	9.849	VV	1859	32248	0.37%	0.101%
150	9.864	9.849	9.876	VV	753	9680	0.11%	0.030%
151	9.901	9.876	9.921	VV	801	16922	0.19%	0.053%
152	9.948	9.921	9.959	VV	780	13364	0.15%	0.042%
153	9.974	9.959	9.986	VV	854	10994	0.12%	0.034%
154	9.990	9.986	9.997	VV	766	4613	0.05%	0.014%
155	10.015	9.997	10.039	VV	1395	20701	0.23%	0.065%
156	10.044	10.039	10.054	VV	554	3490	0.04%	0.011%
157	10.063	10.054	10.084	VV	459	6328	0.07%	0.020%
158	10.102	10.084	10.118	VV	986	14260	0.16%	0.045%
159	10.141	10.118	10.156	VV	785	13243	0.15%	0.041%
160	10.185	10.156	10.207	VV	1502	26886	0.30%	0.084%
161	10.214	10.207	10.230	VV	803	9652	0.11%	0.030%
162	10.253	10.230	10.282	VV	1498	29442	0.33%	0.092%
163	10.295	10.282	10.312	VV	1106	12892	0.15%	0.040%
164	10.327	10.312	10.340	VV	896	11847	0.13%	0.037%
165	10.363	10.340	10.386	VV	2800	42678	0.48%	0.133%
166	10.403	10.386	10.418	VV	619	10144	0.11%	0.032%
167	10.431	10.418	10.437	VV	770	7429	0.08%	0.023%
168	10.452	10.437	10.475	VV	1005	17072	0.19%	0.053%
169	10.491	10.475	10.507	VV	649	10086	0.11%	0.031%
170	10.514	10.507	10.520	VV	486	2843	0.03%	0.009%
171	10.530	10.520	10.550	VV	532	6468	0.07%	0.020%
172	10.572	10.550	10.585	VV	473	8314	0.09%	0.026%
173	10.602	10.585	10.622	VV	585	8697	0.10%	0.027%
174	10.634	10.622	10.645	VV	640	6730	0.08%	0.021%
175	10.659	10.645	10.689	VV	1382	19953	0.23%	0.062%
176	10.699	10.689	10.713	VV	515	5810	0.07%	0.018%
177	10.722	10.713	10.790	VV	374	14803	0.17%	0.046%
178	10.803	10.790	10.832	VV	332	6823	0.08%	0.021%
179	10.847	10.832	10.855	VV	376	4430	0.05%	0.014%
180	10.877	10.855	10.912	VV	1605	24267	0.27%	0.076%
181	10.943	10.912	10.976	VV	2271	36498	0.41%	0.114%
182	10.987	10.976	11.008	VV	598	8123	0.09%	0.025%
183	11.030	11.008	11.060	VV	1361	22288	0.25%	0.070%
184	11.082	11.060	11.112	VV	1304	20186	0.23%	0.063%
185	11.127	11.112	11.138	VV	348	3073	0.03%	0.010%
186	11.155	11.138	11.174	VV	478	6807	0.08%	0.021%
187	11.180	11.174	11.198	VV	493	3832	0.04%	0.012%
188	11.237	11.198	11.337	PV	798997	8832006	100.00%	27.574%
189	11.346	11.337	11.384	VV	1443	28424	0.32%	0.089%
190	11.409	11.384	11.447	VV	2766	46665	0.53%	0.146%
191	11.452	11.447	11.468	VV	503	5604	0.06%	0.017%
192	11.479	11.468	11.486	VV	461	4520	0.05%	0.014%
193	11.529	11.486	11.542	VV	600	16842	0.19%	0.053%
194	11.569	11.542	11.578	VV	1052	17374	0.20%	0.054%

rteres

195	11.593	11.578	11.629	VV	1250	29648	0.34%	0.093%
196	11.666	11.629	11.718	VV	9288	151147	1.71%	0.472%
197	11.736	11.718	11.778	VV	1067	25842	0.29%	0.081%
198	11.815	11.778	11.842	VV	2079	46244	0.52%	0.144%
199	11.862	11.842	11.965	VV	22423	414472	4.69%	1.294%
200	12.016	11.965	12.059	VV	1372	63909	0.72%	0.200%
201	12.103	12.059	12.149	VV	9046	144405	1.64%	0.451%
202	12.179	12.149	12.208	VV	2108	36394	0.41%	0.114%
203	12.240	12.208	12.264	VV	2565	38931	0.44%	0.122%
204	12.275	12.264	12.287	VV	630	7721	0.09%	0.024%
205	12.309	12.287	12.359	VV	1681	31359	0.36%	0.098%
206	12.373	12.359	12.399	VV	580	7339	0.08%	0.023%
207	12.420	12.399	12.449	VV	207	3942	0.04%	0.012%
208	12.492	12.449	12.522	PV	518	15846	0.18%	0.049%
209	12.524	12.522	12.547	VV	501	5376	0.06%	0.017%
210	12.561	12.547	12.572	VV	522	4805	0.05%	0.015%
211	12.604	12.572	12.624	VV	490	11515	0.13%	0.036%
212	12.676	12.624	12.774	VV	172305	2113446	23.93%	6.598%
213	12.843	12.774	12.854	VV	887	28615	0.32%	0.089%
214	12.864	12.854	12.884	VV	746	12464	0.14%	0.039%
215	12.914	12.884	12.982	VV	5868	105116	1.19%	0.328%
216	12.992	12.982	13.018	VV	647	11191	0.13%	0.035%
217	13.039	13.018	13.047	VV	893	12480	0.14%	0.039%
218	13.055	13.047	13.077	VV	940	12665	0.14%	0.040%
219	13.104	13.077	13.227	VV	4604	165391	1.87%	0.516%
220	13.232	13.227	13.244	VV	824	8156	0.09%	0.025%
221	13.266	13.244	13.281	VV	997	18270	0.21%	0.057%
222	13.300	13.281	13.355	VV	971	32248	0.37%	0.101%
223	13.381	13.355	13.405	VV	1620	29496	0.33%	0.092%
224	13.432	13.405	13.472	VV	2455	38677	0.44%	0.121%
225	13.500	13.472	13.524	VV	441	9446	0.11%	0.029%
226	13.536	13.524	13.549	VV	323	4116	0.05%	0.013%
227	13.560	13.549	13.605	VV	384	8083	0.09%	0.025%
228	13.615	13.605	13.661	VV	278	5860	0.07%	0.018%
229	13.671	13.661	13.693	PV	317	3548	0.04%	0.011%
230	13.704	13.693	13.712	VV	254	2433	0.03%	0.008%
231	13.724	13.712	13.737	VV	391	3542	0.04%	0.011%
232	13.760	13.737	13.772	VV	345	5746	0.07%	0.018%
233	13.781	13.772	13.791	VV	396	3107	0.04%	0.010%
234	13.799	13.791	13.807	VV	315	2557	0.03%	0.008%
235	13.831	13.807	13.852	VV	460	7426	0.08%	0.023%
236	13.892	13.852	13.936	VV	1312	37321	0.42%	0.117%
237	13.950	13.936	13.960	VV	476	6378	0.07%	0.020%
238	13.968	13.960	13.984	VV	623	6536	0.07%	0.020%
239	13.995	13.984	14.019	VV	510	9178	0.10%	0.029%
240	14.080	14.019	14.114	VV	637	25632	0.29%	0.080%
241	14.121	14.114	14.142	VV	546	8594	0.10%	0.027%
242	14.162	14.142	14.172	VV	656	9678	0.11%	0.030%
243	14.195	14.172	14.223	VV	791	17689	0.20%	0.055%
244	14.245	14.223	14.263	VV	636	12718	0.14%	0.040%
245	14.294	14.263	14.319	VV	865	19945	0.23%	0.062%
246	14.336	14.319	14.364	VV	746	14623	0.17%	0.046%

rteres

247	14.395	14.364	14.424	VV	513	13066	0.15%	0.041%
248	14.450	14.424	14.459	VV	390	5481	0.06%	0.017%
249	14.490	14.459	14.510	VV	1364	21985	0.25%	0.069%
250	14.533	14.510	14.625	VV	2234	46838	0.53%	0.146%
251	14.653	14.625	14.665	VV	255	3668	0.04%	0.011%
252	14.696	14.665	14.729	VV	1044	18176	0.21%	0.057%
253	14.738	14.729	14.752	VV	331	3623	0.04%	0.011%
254	14.762	14.752	14.819	VV	189	7155	0.08%	0.022%
255	14.836	14.819	14.858	PV	315	5218	0.06%	0.016%
256	14.871	14.858	14.917	VV	556	11435	0.13%	0.036%
257	14.957	14.917	14.976	VV	531	12119	0.14%	0.038%
258	15.010	14.976	15.029	VV	499	10966	0.12%	0.034%
259	15.078	15.029	15.132	VV	1885	46295	0.52%	0.145%
260	15.141	15.132	15.149	VV	397	3014	0.03%	0.009%
261	15.181	15.149	15.211	VV	572	15615	0.18%	0.049%
262	15.244	15.211	15.308	VV	1083	29625	0.34%	0.092%
263	15.393	15.308	15.429	VV	1028	33762	0.38%	0.105%
264	15.437	15.429	15.480	VV	460	6480	0.07%	0.020%
265	15.515	15.480	15.532	VV	983	15803	0.18%	0.049%
266	15.551	15.532	15.572	VV	1791	27606	0.31%	0.086%
267	15.591	15.572	15.619	VV	893	15236	0.17%	0.048%
268	15.627	15.619	15.666	VV	298	4755	0.05%	0.015%
269	15.688	15.666	15.710	VV	299	2931	0.03%	0.009%
270	15.761	15.710	15.774	PV	331	5722	0.06%	0.018%
271	15.803	15.774	15.829	VV	262	4445	0.05%	0.014%
272	15.838	15.829	15.849	PV	241	1886	0.02%	0.006%
273	15.858	15.849	15.884	VV	239	3147	0.04%	0.010%
274	15.893	15.884	15.902	VV	198	1845	0.02%	0.006%
275	15.914	15.902	15.925	VV	264	3124	0.04%	0.010%
276	15.934	15.925	15.969	VV	380	5690	0.06%	0.018%
277	16.000	15.969	16.010	VV	365	6105	0.07%	0.019%
278	16.034	16.010	16.081	VV	843	17484	0.20%	0.055%
279	16.099	16.081	16.107	VV	394	3753	0.04%	0.012%
280	16.134	16.107	16.156	VV	1077	20955	0.24%	0.065%
281	16.164	16.156	16.217	VV	633	17150	0.19%	0.054%
282	16.227	16.217	16.255	VV	551	9670	0.11%	0.030%
283	16.263	16.255	16.289	VV	397	6792	0.08%	0.021%
284	16.329	16.289	16.362	VV	669	22659	0.26%	0.071%
285	16.413	16.362	16.434	VV	859	26226	0.30%	0.082%
286	16.456	16.434	16.475	VV	1195	19621	0.22%	0.061%
287	16.494	16.475	16.527	VV	2132	37062	0.42%	0.116%
288	16.541	16.527	16.556	VV	368	6400	0.07%	0.020%
289	16.564	16.556	16.579	VV	413	4488	0.05%	0.014%
290	16.585	16.579	16.632	VV	489	10402	0.12%	0.032%
291	16.659	16.632	16.689	VV	402	10109	0.11%	0.032%
292	16.701	16.689	16.732	VV	310	5370	0.06%	0.017%
293	16.832	16.732	16.862	VV	468	26693	0.30%	0.083%
294	16.869	16.862	16.894	VV	495	7560	0.09%	0.024%
295	16.944	16.894	16.994	VV	2444	51120	0.58%	0.160%
296	17.050	16.994	17.078	PV	572	18447	0.21%	0.058%
297	17.099	17.078	17.114	VV	521	8534	0.10%	0.027%
298	17.143	17.114	17.162	VV	510	11011	0.12%	0.034%
299	17.188	17.162	17.202	VV	541	10780	0.12%	0.034%

					rteres			
300	17.209	17.202	17.220	VV	441	4498	0.05%	0.014%
301	17.224	17.220	17.234	VV	485	3199	0.04%	0.010%
302	17.242	17.234	17.250	VV	398	3159	0.04%	0.010%
303	17.268	17.250	17.284	VV	513	7155	0.08%	0.022%
304	17.295	17.284	17.305	VV	366	4028	0.05%	0.013%
305	17.376	17.305	17.438	VV	4228	93509	1.06%	0.292%
306	17.462	17.438	17.492	VV	399	10269	0.12%	0.032%
307	17.529	17.492	17.570	VV	463	14511	0.16%	0.045%
308	17.584	17.570	17.597	VV	255	2649	0.03%	0.008%
309	17.628	17.597	17.642	VV	326	5187	0.06%	0.016%
310	17.661	17.642	17.673	VV	397	5468	0.06%	0.017%
311	17.685	17.673	17.719	VV	403	6994	0.08%	0.022%
312	17.725	17.719	17.770	VV	260	4833	0.05%	0.015%
313	17.798	17.770	17.855	VV	3449	58209	0.66%	0.182%
314	17.862	17.855	17.898	VV	377	6140	0.07%	0.019%
315	17.930	17.898	17.943	VV	385	5892	0.07%	0.018%
316	17.967	17.943	17.981	PV	235	3030	0.03%	0.009%
317	18.015	17.981	18.045	VV	330	7517	0.09%	0.023%
318	18.063	18.045	18.132	VV	518	16178	0.18%	0.051%
319	18.205	18.132	18.272	VV	4144	83959	0.95%	0.262%

Sum of corrected areas: 32030510

Aromatic EPH 021125.M Fri Feb 28 02:07:40 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.2
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
02/27/25 13:10	02/28/25 15:16	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.50	U	1	0.50	1.33	mg/kg	FC068329.D
Aliphatic C12-C16	Aliphatic C12-C16	0.72	J	1	0.32	0.89	mg/kg	FC068329.D
Aliphatic C16-C21	Aliphatic C16-C21	0.60	J	1	0.40	1.33	mg/kg	FC068329.D
Aliphatic C21-C28	Aliphatic C21-C28	1.06	U	1	1.06	1.77	mg/kg	FC068329.D
Aliphatic C28-C40	Aliphatic C28-C40	2.54	J	1	2.39	2.65	mg/kg	FC068329.D
Aromatic C10-C12	Aromatic C10-C12	0.43	J	1	0.40	0.89	mg/kg	FD049137.D
Aromatic C12-C16	Aromatic C12-C16	0.63	J	1	0.45	1.33	mg/kg	FD049137.D
Aromatic C16-C21	Aromatic C16-C21	2.48		1	1.27	2.21	mg/kg	FD049137.D
Aromatic C21-C36	Aromatic C21-C36	3.08	J	1	2.65	3.54	mg/kg	FD049137.D
Total AliphaticEPH	Total AliphaticEPH	4.67	U		4.67	7.96	mg/kg	
Total AromaticEPH	Total AromaticEPH	6.62	J		4.77	7.96	mg/kg	
Total EPH	Total EPH	10.5	J		9.44	15.9	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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.2
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
FC068329.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.50	U	0.50	1.33	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.72	J	0.32	0.89	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.60	J	0.40	1.33	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.06	U	1.06	1.77	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.54	J	2.39	2.65	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		48.7		40 - 140	97%	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:	Q1421-07	Acq On:	28 Feb 2025 15:16
Client Sample ID:	P001-CLAY-CF01-02	Operator:	YP/AJ
Data file:	FC068329.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	3.104	6.369	635441	4.506	300	ug/ml
Aliphatic C12-C16	6.370	9.754	1118333	8.184	200	ug/ml
Aliphatic C16-C21	9.755	13.107	889893	6.761	300	ug/ml
Aliphatic C21-C28	13.108	16.761	838873	6.837	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2958175	28.763	600	ug/ml
Aliphatic EPH	3.104	21.565	6440715	55.05		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	5479293	48.72		ug/ml
Aliphatic C9-C28	3.104	16.761	3482540	26.288	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068329.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 15:16
Operator : YP/AJ
Sample : Q1421-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Mar 05 05:24:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	5479293	48.716 ug/ml
Spiked Amount 50.000		Recovery = 97.43%	
Target Compounds			

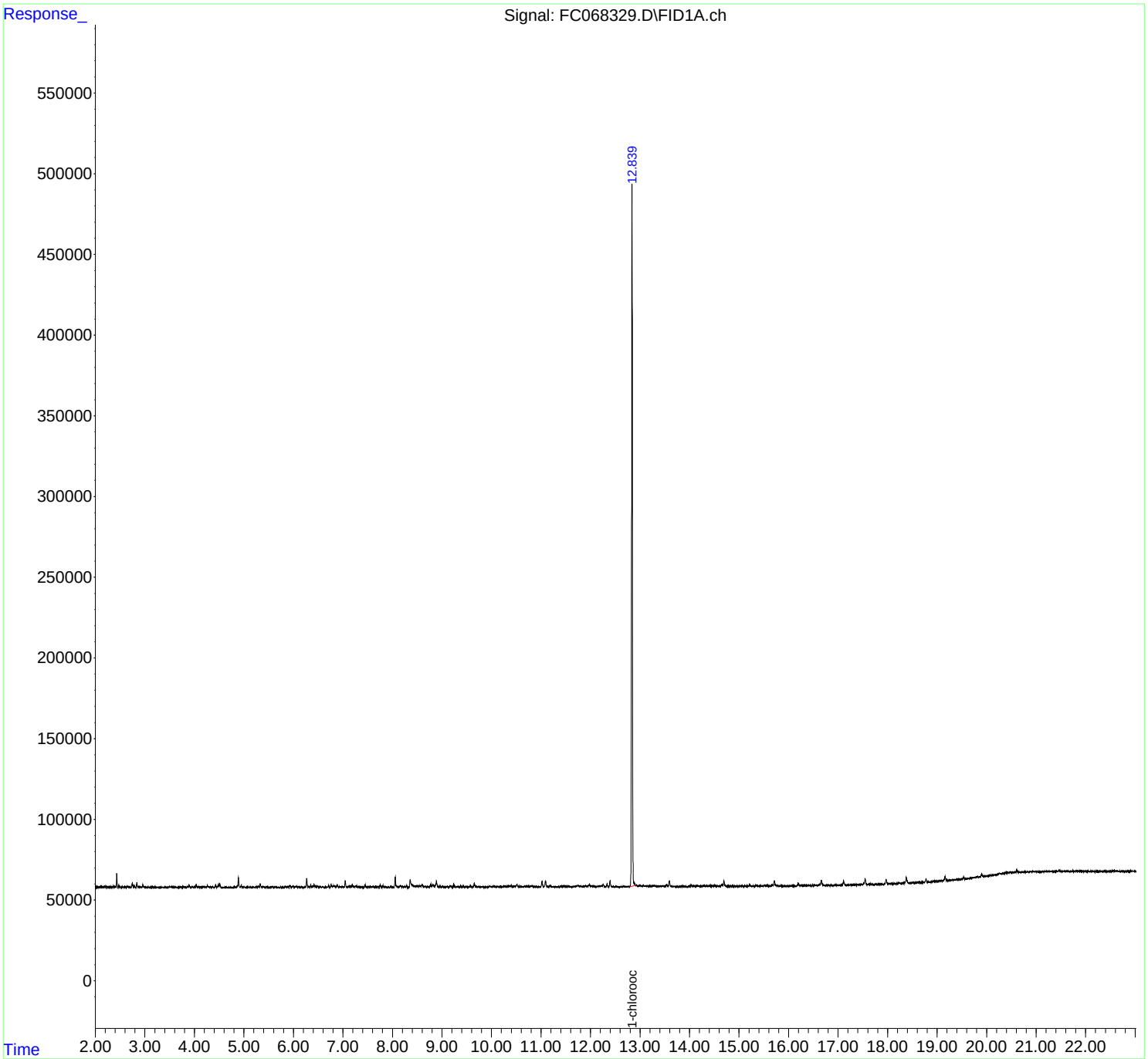
(f)=RT Delta > 1/2 Window (m)=manual int.

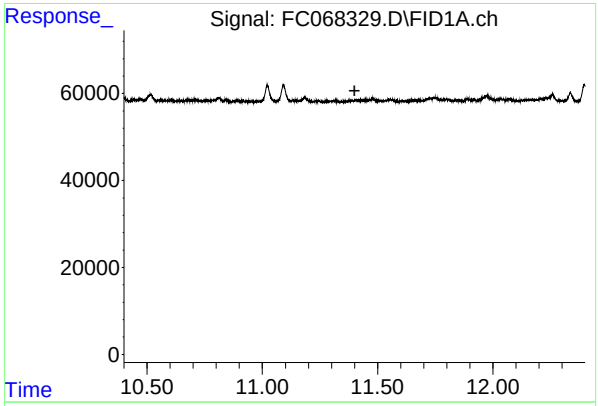
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068329.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 15:16
Operator : YP/AJ
Sample : Q1421-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Mar 05 05:24:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

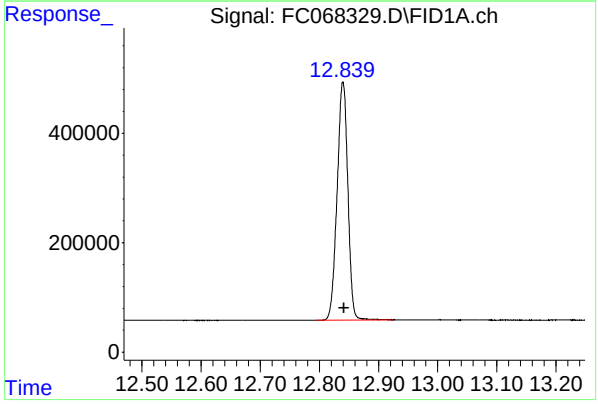




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-02



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 5479293
Conc: 48.72 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068329.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 15:16
Sample : Q1421-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.359	2.304	2.411	BV	637	7364	0.13%	0.059%
2	2.432	2.411	2.461	VV	8589	66438	1.20%	0.532%
3	2.472	2.461	2.545	VV	942	10980	0.20%	0.088%
4	2.558	2.545	2.577	PV	169	1605	0.03%	0.013%
5	2.593	2.577	2.638	VV	381	4416	0.08%	0.035%
6	2.655	2.638	2.720	VV	682	11433	0.21%	0.091%
7	2.743	2.720	2.774	VV	2353	34779	0.63%	0.278%
8	2.789	2.774	2.814	VV	896	10257	0.18%	0.082%
9	2.839	2.814	2.904	VV	3057	33889	0.61%	0.271%
10	2.916	2.904	2.934	VV	290	3616	0.07%	0.029%
11	2.961	2.934	3.017	VV	1714	22153	0.40%	0.177%
12	3.027	3.017	3.155	VV	235	10225	0.18%	0.082%
13	3.162	3.155	3.191	VV	116	1923	0.03%	0.015%
14	3.207	3.191	3.243	PV	453	5387	0.10%	0.043%
15	3.305	3.243	3.332	VV	168	5224	0.09%	0.042%
16	3.360	3.332	3.376	VV	287	4295	0.08%	0.034%
17	3.384	3.376	3.393	VV	168	1289	0.02%	0.010%
18	3.410	3.393	3.423	VV	200	2294	0.04%	0.018%
19	3.438	3.423	3.457	VV	153	1887	0.03%	0.015%
20	3.499	3.457	3.514	VV	816	10870	0.20%	0.087%
21	3.524	3.514	3.558	VV	445	5736	0.10%	0.046%
22	3.574	3.558	3.608	VV	284	5218	0.09%	0.042%
23	3.611	3.608	3.648	VV	187	2724	0.05%	0.022%
24	3.660	3.648	3.672	VV	114	1336	0.02%	0.011%
25	3.702	3.672	3.734	VV	251	6045	0.11%	0.048%
26	3.770	3.734	3.818	VV	747	12409	0.22%	0.099%
27	3.866	3.818	3.877	VV	631	9540	0.17%	0.076%
28	3.894	3.877	3.941	VV	1489	19032	0.34%	0.152%
29	3.956	3.941	3.994	VV	281	5536	0.10%	0.044%
30	4.039	3.994	4.124	VV	1378	28402	0.51%	0.227%
31	4.190	4.124	4.239	VV	280	12166	0.22%	0.097%
32	4.263	4.239	4.291	VV	1151	16626	0.30%	0.133%
33	4.303	4.291	4.338	VV	374	6836	0.12%	0.055%
34	4.371	4.338	4.401	VV	547	11385	0.21%	0.091%
35	4.428	4.401	4.448	VV	1845	21912	0.39%	0.175%
36	4.483	4.448	4.497	VV	1715	21994	0.40%	0.176%

rteres

37	4.513	4.497	4.591	VV	2457	28839	0.52%	0.231%
38	4.629	4.591	4.654	VV	290	5565	0.10%	0.045%
39	4.660	4.654	4.687	VV	128	1639	0.03%	0.013%
40	4.701	4.687	4.719	VV	188	2230	0.04%	0.018%
41	4.724	4.719	4.752	VV	133	1297	0.02%	0.010%
42	4.762	4.752	4.771	PV	66	330	0.01%	0.003%
43	4.811	4.771	4.838	VV	470	6357	0.11%	0.051%
44	4.890	4.838	4.921	VV	6188	78569	1.42%	0.629%
45	4.946	4.921	4.982	VV	1353	16520	0.30%	0.132%
46	5.003	4.982	5.025	VV	231	3547	0.06%	0.028%
47	5.081	5.025	5.110	VV	352	6994	0.13%	0.056%
48	5.123	5.110	5.145	VV	198	3305	0.06%	0.026%
49	5.183	5.145	5.240	VV	198	7705	0.14%	0.062%
50	5.254	5.240	5.274	VV	325	4283	0.08%	0.034%
51	5.291	5.274	5.311	VV	810	9647	0.17%	0.077%
52	5.332	5.311	5.363	VV	2283	26877	0.48%	0.215%
53	5.388	5.363	5.415	VV	636	8315	0.15%	0.067%
54	5.425	5.415	5.434	VV	169	1518	0.03%	0.012%
55	5.469	5.434	5.516	VV	391	10209	0.18%	0.082%
56	5.541	5.516	5.553	VV	183	2503	0.05%	0.020%
57	5.583	5.553	5.606	VV	383	7132	0.13%	0.057%
58	5.623	5.606	5.678	VV	244	7077	0.13%	0.057%
59	5.696	5.678	5.729	VV	204	2870	0.05%	0.023%
60	5.745	5.729	5.773	PV	219	3387	0.06%	0.027%
61	5.793	5.773	5.804	VV	287	2904	0.05%	0.023%
62	5.847	5.804	5.870	VV	588	13068	0.24%	0.105%
63	5.886	5.870	5.911	VV	668	9629	0.17%	0.077%
64	5.929	5.911	5.968	VV	1261	17418	0.31%	0.139%
65	5.990	5.968	6.024	VV	774	11478	0.21%	0.092%
66	6.061	6.024	6.088	VV	548	12612	0.23%	0.101%
67	6.108	6.088	6.125	VV	250	3496	0.06%	0.028%
68	6.157	6.125	6.169	VV	232	4334	0.08%	0.035%
69	6.174	6.169	6.223	VV	186	4178	0.08%	0.033%
70	6.269	6.223	6.332	VV	5682	75101	1.35%	0.601%
71	6.351	6.332	6.371	VV	1249	14442	0.26%	0.116%
72	6.386	6.371	6.399	VV	623	7973	0.14%	0.064%
73	6.417	6.399	6.437	VV	1915	23178	0.42%	0.185%
74	6.449	6.437	6.470	VV	752	9168	0.17%	0.073%
75	6.489	6.470	6.529	VV	1055	13956	0.25%	0.112%
76	6.544	6.529	6.565	VV	219	3766	0.07%	0.030%
77	6.597	6.565	6.611	VV	241	4578	0.08%	0.037%
78	6.634	6.611	6.647	VV	269	3508	0.06%	0.028%
79	6.662	6.647	6.684	VV	217	3545	0.06%	0.028%
80	6.709	6.684	6.737	VV	1023	13385	0.24%	0.107%
81	6.761	6.737	6.795	VV	1395	25745	0.46%	0.206%
82	6.811	6.795	6.853	VV	1054	24455	0.44%	0.196%
83	6.887	6.853	6.912	VV	1822	27965	0.50%	0.224%
84	6.926	6.912	6.942	VV	310	3839	0.07%	0.031%
85	6.990	6.942	7.018	VV	435	10697	0.19%	0.086%
86	7.047	7.018	7.078	VV	4133	46627	0.84%	0.373%
87	7.106	7.078	7.139	VV	597	14107	0.25%	0.113%
88	7.155	7.139	7.167	VV	825	9173	0.17%	0.073%
89	7.189	7.167	7.214	VV	1910	26432	0.48%	0.212%

rteres

90	7.224	7.214	7.233	VV	411	4261	0.08%	0.034%
91	7.249	7.233	7.265	VV	723	10328	0.19%	0.083%
92	7.280	7.265	7.314	VV	911	12402	0.22%	0.099%
93	7.355	7.314	7.384	VV	251	7251	0.13%	0.058%
94	7.448	7.384	7.480	VV	1705	24092	0.43%	0.193%
95	7.530	7.480	7.564	VV	356	10536	0.19%	0.084%
96	7.612	7.564	7.629	VV	325	8923	0.16%	0.071%
97	7.644	7.629	7.653	VV	351	3456	0.06%	0.028%
98	7.668	7.653	7.692	VV	324	5176	0.09%	0.041%
99	7.708	7.692	7.731	VV	388	5249	0.09%	0.042%
100	7.754	7.731	7.786	VV	1260	16720	0.30%	0.134%
101	7.809	7.786	7.831	VV	1211	14680	0.26%	0.117%
102	7.847	7.831	7.868	VV	446	6476	0.12%	0.052%
103	7.877	7.868	7.896	VV	440	4299	0.08%	0.034%
104	7.912	7.896	7.938	VV	168	3108	0.06%	0.025%
105	7.964	7.938	8.026	VV	644	11200	0.20%	0.090%
106	8.057	8.026	8.125	VV	6424	82368	1.48%	0.659%
107	8.165	8.125	8.188	VV	779	18799	0.34%	0.150%
108	8.204	8.188	8.227	VV	734	9451	0.17%	0.076%
109	8.250	8.227	8.269	VV	608	7847	0.14%	0.063%
110	8.289	8.269	8.317	VV	766	9315	0.17%	0.075%
111	8.359	8.317	8.444	PV	4736	113074	2.04%	0.905%
112	8.470	8.444	8.488	VV	848	18554	0.33%	0.148%
113	8.514	8.488	8.529	VV	1041	19683	0.35%	0.158%
114	8.544	8.529	8.558	VV	892	13574	0.24%	0.109%
115	8.566	8.558	8.576	VV	800	8013	0.14%	0.064%
116	8.594	8.576	8.635	VV	1555	34048	0.61%	0.272%
117	8.655	8.635	8.691	VV	842	13033	0.23%	0.104%
118	8.708	8.691	8.731	VV	598	8943	0.16%	0.072%
119	8.745	8.731	8.753	VV	427	4293	0.08%	0.034%
120	8.777	8.753	8.794	VV	2171	27743	0.50%	0.222%
121	8.812	8.794	8.861	VV	1377	37273	0.67%	0.298%
122	8.890	8.861	8.941	VV	3282	63654	1.15%	0.509%
123	8.963	8.941	8.986	VV	874	13135	0.24%	0.105%
124	9.012	8.986	9.038	VV	647	10225	0.18%	0.082%
125	9.092	9.038	9.141	VV	525	17376	0.31%	0.139%
126	9.177	9.141	9.214	VV	827	19680	0.35%	0.158%
127	9.240	9.214	9.279	VV	1560	25523	0.46%	0.204%
128	9.296	9.279	9.304	VV	388	4361	0.08%	0.035%
129	9.315	9.304	9.328	VV	369	4510	0.08%	0.036%
130	9.336	9.328	9.357	VV	316	3461	0.06%	0.028%
131	9.381	9.357	9.409	VV	664	11666	0.21%	0.093%
132	9.433	9.409	9.465	VV	819	13199	0.24%	0.106%
133	9.485	9.465	9.514	VV	287	5175	0.09%	0.041%
134	9.521	9.514	9.545	VV	261	2970	0.05%	0.024%
135	9.573	9.545	9.626	VV	949	18114	0.33%	0.145%
136	9.653	9.626	9.701	VV	2658	40252	0.72%	0.322%
137	9.727	9.701	9.738	VV	490	8494	0.15%	0.068%
138	9.748	9.738	9.788	VV	464	10273	0.19%	0.082%
139	9.803	9.788	9.845	VV	323	6459	0.12%	0.052%
140	9.863	9.845	9.874	PV	126	1689	0.03%	0.014%
141	9.932	9.874	9.944	VV	360	7973	0.14%	0.064%

rteres

142	9.970	9.944	9.988	VV	687	10633	0.19%	0.085%
143	9.996	9.988	10.006	VV	318	2942	0.05%	0.024%
144	10.043	10.006	10.061	VV	626	15741	0.28%	0.126%
145	10.079	10.061	10.108	VV	664	12735	0.23%	0.102%
146	10.128	10.108	10.148	VV	520	9919	0.18%	0.079%
147	10.158	10.148	10.184	VV	465	6836	0.12%	0.055%
148	10.200	10.184	10.221	VV	266	5631	0.10%	0.045%
149	10.250	10.221	10.266	VV	624	12337	0.22%	0.099%
150	10.282	10.266	10.303	VV	614	11019	0.20%	0.088%
151	10.328	10.303	10.354	VV	757	17362	0.31%	0.139%
152	10.390	10.354	10.424	VV	1061	27594	0.50%	0.221%
153	10.445	10.424	10.456	VV	703	9946	0.18%	0.080%
154	10.474	10.456	10.491	VV	730	12481	0.22%	0.100%
155	10.515	10.491	10.551	VV	1841	34485	0.62%	0.276%
156	10.559	10.551	10.582	VV	513	7862	0.14%	0.063%
157	10.606	10.582	10.624	VV	541	10000	0.18%	0.080%
158	10.643	10.624	10.660	VV	354	6823	0.12%	0.055%
159	10.673	10.660	10.690	VV	525	7332	0.13%	0.059%
160	10.710	10.690	10.741	VV	585	12534	0.23%	0.100%
161	10.811	10.741	10.831	VV	915	27369	0.49%	0.219%
162	10.842	10.831	10.864	VV	471	6216	0.11%	0.050%
163	10.892	10.864	10.968	VV	425	14401	0.26%	0.115%
164	10.978	10.968	10.991	VV	170	2016	0.04%	0.016%
165	11.022	10.991	11.058	VV	3854	55261	1.00%	0.442%
166	11.092	11.058	11.125	VV	3906	58119	1.05%	0.465%
167	11.143	11.125	11.156	VV	397	6459	0.12%	0.052%
168	11.184	11.156	11.221	VV	1065	18413	0.33%	0.147%
169	11.242	11.221	11.267	VV	234	4289	0.08%	0.034%
170	11.310	11.267	11.348	VV	248	7669	0.14%	0.061%
171	11.445	11.348	11.458	VV	507	20913	0.38%	0.167%
172	11.478	11.458	11.518	VV	774	15816	0.28%	0.127%
173	11.552	11.518	11.598	VV	603	16546	0.30%	0.132%
174	11.608	11.598	11.625	VV	269	3261	0.06%	0.026%
175	11.682	11.625	11.694	VV	424	12134	0.22%	0.097%
176	11.725	11.694	11.733	VV	829	13853	0.25%	0.111%
177	11.751	11.733	11.777	VV	956	19368	0.35%	0.155%
178	11.797	11.777	11.828	VV	576	13613	0.25%	0.109%
179	11.848	11.828	11.870	VV	436	8524	0.15%	0.068%
180	11.890	11.870	11.938	VV	598	18724	0.34%	0.150%
181	11.974	11.938	12.010	VV	1419	36203	0.65%	0.290%
182	12.030	12.010	12.058	VV	626	14862	0.27%	0.119%
183	12.070	12.058	12.111	VV	650	12112	0.22%	0.097%
184	12.162	12.111	12.181	VV	519	15739	0.28%	0.126%
185	12.206	12.181	12.218	VV	679	11596	0.21%	0.093%
186	12.258	12.218	12.307	VV	1626	37611	0.68%	0.301%
187	12.336	12.307	12.371	VV	2030	28231	0.51%	0.226%
188	12.396	12.371	12.478	VV	3881	58013	1.04%	0.464%
189	12.511	12.478	12.598	VV	271	11008	0.20%	0.088%
190	12.607	12.598	12.624	VV	79	468	0.01%	0.004%
191	12.674	12.624	12.704	PV	310	10423	0.19%	0.083%
192	12.720	12.704	12.741	VV	259	3903	0.07%	0.031%
193	12.768	12.741	12.795	VV	344	8195	0.15%	0.066%
194	12.840	12.795	12.981	VV	436016	5552221	100.00%	44.434%

rteres

195	13.003	12.981	13.038	VV	932	25229	0.45%	0.202%
196	13.067	13.038	13.101	VV	714	23003	0.41%	0.184%
197	13.114	13.101	13.178	VV	537	20264	0.36%	0.162%
198	13.210	13.178	13.240	VV	638	18838	0.34%	0.151%
199	13.292	13.240	13.324	VV	855	29827	0.54%	0.239%
200	13.339	13.324	13.367	VV	433	9363	0.17%	0.075%
201	13.391	13.367	13.424	VV	419	12113	0.22%	0.097%
202	13.443	13.424	13.454	VV	597	8242	0.15%	0.066%
203	13.458	13.454	13.482	VV	563	7159	0.13%	0.057%
204	13.540	13.482	13.565	VV	1460	32931	0.59%	0.264%
205	13.593	13.565	13.656	VV	3411	56459	1.02%	0.452%
206	13.670	13.656	13.692	VV	365	4437	0.08%	0.036%
207	13.700	13.692	13.722	VV	196	2624	0.05%	0.021%
208	13.736	13.722	13.771	VV	185	2746	0.05%	0.022%
209	13.810	13.771	13.820	PV	201	4027	0.07%	0.032%
210	13.838	13.820	13.878	VV	266	6936	0.12%	0.056%
211	13.890	13.878	13.908	VV	248	3537	0.06%	0.028%
212	13.920	13.908	13.961	VV	215	5836	0.11%	0.047%
213	14.030	13.961	14.071	VV	1143	28954	0.52%	0.232%
214	14.077	14.071	14.104	VV	450	6576	0.12%	0.053%
215	14.156	14.104	14.198	VV	706	21830	0.39%	0.175%
216	14.209	14.198	14.234	VV	318	6340	0.11%	0.051%
217	14.284	14.234	14.331	VV	499	23956	0.43%	0.192%
218	14.337	14.331	14.377	VV	436	10382	0.19%	0.083%
219	14.402	14.377	14.428	VV	575	13040	0.23%	0.104%
220	14.460	14.428	14.486	VV	592	15975	0.29%	0.128%
221	14.500	14.486	14.522	VV	545	9296	0.17%	0.074%
222	14.537	14.522	14.555	VV	328	5392	0.10%	0.043%
223	14.560	14.555	14.571	VV	308	2373	0.04%	0.019%
224	14.596	14.571	14.613	VV	334	6938	0.12%	0.056%
225	14.651	14.613	14.670	VV	1101	21384	0.39%	0.171%
226	14.694	14.670	14.808	VV	3570	65621	1.18%	0.525%
227	14.817	14.808	14.832	VV	153	1038	0.02%	0.008%
228	14.867	14.832	14.984	VV	258	13725	0.25%	0.110%
229	15.026	14.984	15.051	VV	178	4217	0.08%	0.034%
230	15.059	15.051	15.073	VV	117	1259	0.02%	0.010%
231	15.122	15.073	15.148	VV	241	7144	0.13%	0.057%
232	15.164	15.148	15.188	VV	228	4953	0.09%	0.040%
233	15.214	15.188	15.252	VV	1278	22242	0.40%	0.178%
234	15.261	15.252	15.318	VV	240	7116	0.13%	0.057%
235	15.329	15.318	15.334	VV	281	1995	0.04%	0.016%
236	15.401	15.334	15.468	VV	369	20317	0.37%	0.163%
237	15.565	15.468	15.628	VV	460	28247	0.51%	0.226%
238	15.675	15.628	15.691	VV	895	15765	0.28%	0.126%
239	15.713	15.691	15.832	VV	3416	63566	1.14%	0.509%
240	15.849	15.832	15.864	VV	93	1627	0.03%	0.013%
241	15.879	15.864	15.911	VV	151	3502	0.06%	0.028%
242	15.921	15.911	15.940	VV	120	1466	0.03%	0.012%
243	15.959	15.940	15.974	VV	131	1431	0.03%	0.011%
244	15.982	15.974	15.993	PV	109	854	0.02%	0.007%
245	16.024	15.993	16.041	VV	191	3090	0.06%	0.025%
246	16.051	16.041	16.060	VV	147	944	0.02%	0.008%

rteres

247	16.080	16.060	16.141	VV	146	4055	0.07%	0.032%
248	16.196	16.141	16.256	VV	1754	33766	0.61%	0.270%
249	16.274	16.256	16.304	VV	248	4773	0.09%	0.038%
250	16.399	16.304	16.419	VV	303	14788	0.27%	0.118%
251	16.437	16.419	16.461	VV	257	4981	0.09%	0.040%
252	16.548	16.461	16.565	VV	414	16228	0.29%	0.130%
253	16.585	16.565	16.598	VV	389	6195	0.11%	0.050%
254	16.661	16.598	16.801	VV	3529	86193	1.55%	0.690%
255	16.809	16.801	16.853	VV	176	3264	0.06%	0.026%
256	16.874	16.853	16.888	VV	110	1550	0.03%	0.012%
257	16.896	16.888	16.914	VV	144	592	0.01%	0.005%
258	16.951	16.914	16.979	PV	278	7518	0.14%	0.060%
259	16.999	16.979	17.034	VV	246	4889	0.09%	0.039%
260	17.044	17.034	17.051	VV	137	974	0.02%	0.008%
261	17.111	17.051	17.187	VV	2858	50570	0.91%	0.405%
262	17.205	17.187	17.244	VV	257	5134	0.09%	0.041%
263	17.298	17.244	17.328	VV	226	7058	0.13%	0.056%
264	17.335	17.328	17.368	VV	193	3777	0.07%	0.030%
265	17.390	17.368	17.417	VV	236	5216	0.09%	0.042%
266	17.547	17.417	17.601	VV	3717	77929	1.40%	0.624%
267	17.656	17.601	17.743	VV	422	17866	0.32%	0.143%
268	17.827	17.743	17.851	PV	326	7598	0.14%	0.061%
269	17.861	17.851	17.911	VV	237	3677	0.07%	0.029%
270	17.969	17.911	18.008	PV	3196	52409	0.94%	0.419%
271	18.028	18.008	18.041	VV	203	3203	0.06%	0.026%
272	18.059	18.041	18.081	VV	222	3212	0.06%	0.026%
273	18.095	18.081	18.120	VV	249	3129	0.06%	0.025%
274	18.146	18.120	18.192	PV	210	4999	0.09%	0.040%
275	18.239	18.192	18.274	VV	300	8714	0.16%	0.070%
276	18.285	18.274	18.313	VV	104	1933	0.03%	0.015%
277	18.378	18.313	18.454	VV	3308	67793	1.22%	0.543%
278	18.504	18.454	18.554	VV	249	8467	0.15%	0.068%
279	18.595	18.554	18.605	VV	203	3770	0.07%	0.030%
280	18.626	18.605	18.648	VV	208	3413	0.06%	0.027%
281	18.659	18.648	18.668	PV	181	1128	0.02%	0.009%
282	18.679	18.668	18.691	VV	154	1114	0.02%	0.009%
283	18.775	18.691	18.818	PV	2168	35837	0.65%	0.287%
284	18.827	18.818	18.835	VV	133	1248	0.02%	0.010%
285	18.912	18.835	18.927	VV	181	7328	0.13%	0.059%
286	18.958	18.927	18.990	VV	312	6916	0.12%	0.055%
287	19.027	18.990	19.051	VV	383	8872	0.16%	0.071%
288	19.088	19.051	19.104	VV	333	9396	0.17%	0.075%
289	19.161	19.104	19.231	VV	2770	64499	1.16%	0.516%
290	19.260	19.231	19.271	VV	336	7263	0.13%	0.058%
291	19.347	19.271	19.356	VV	428	16612	0.30%	0.133%
292	19.413	19.356	19.424	VV	557	19275	0.35%	0.154%
293	19.457	19.424	19.504	VV	567	23436	0.42%	0.188%
294	19.536	19.504	19.582	VV	1675	41398	0.75%	0.331%
295	19.807	19.582	19.821	VV	1303	123381	2.22%	0.987%
296	19.901	19.821	19.940	VV	2868	113951	2.05%	0.912%
297	19.983	19.940	20.011	VV	1577	63411	1.14%	0.507%
298	20.081	20.011	20.093	VV	1727	78481	1.41%	0.628%
299	20.123	20.093	20.131	VV	1840	40247	0.72%	0.322%

rteres

300	20.139	20.131	20.144	VV	1778	13247	0.24%	0.106%
301	20.174	20.144	20.185	VV	1965	46085	0.83%	0.369%
302	20.256	20.185	20.284	VV	2784	131136	2.36%	1.049%
303	20.435	20.284	20.454	VV	2920	260534	4.69%	2.085%
304	20.483	20.454	20.505	VV	2748	83523	1.50%	0.668%
305	20.528	20.505	20.545	VV	2768	65681	1.18%	0.526%
306	20.553	20.545	20.568	VV	2672	35877	0.65%	0.287%
307	20.610	20.568	20.666	VV	3603	175842	3.17%	1.407%
308	20.681	20.666	20.690	VV	2627	36005	0.65%	0.288%
309	20.786	20.690	20.848	VV	2614	241181	4.34%	1.930%
310	20.864	20.848	20.878	VV	2480	43756	0.79%	0.350%
311	20.948	20.878	20.979	VV	2525	145087	2.61%	1.161%
312	21.012	20.979	21.072	VV	2360	122291	2.20%	0.979%
313	21.080	21.072	21.094	VV	2108	27653	0.50%	0.221%
314	21.151	21.094	21.160	VV	2001	78496	1.41%	0.628%
315	21.207	21.160	21.255	VV	1996	109701	1.98%	0.878%
316	21.267	21.255	21.288	VV	1975	37328	0.67%	0.299%
317	21.311	21.288	21.335	VV	1815	49267	0.89%	0.394%
318	21.353	21.335	21.361	VV	1743	27181	0.49%	0.218%
319	21.371	21.361	21.381	VV	1728	20072	0.36%	0.161%
320	21.392	21.381	21.401	VV	1673	19605	0.35%	0.157%
321	21.466	21.401	21.512	VV	2073	118202	2.13%	0.946%
322	21.521	21.512	21.531	VV	1491	16674	0.30%	0.133%
323	21.547	21.531	21.567	VV	1554	31304	0.56%	0.251%
324	21.595	21.567	21.624	VV	1400	46458	0.84%	0.372%
325	21.638	21.624	21.687	VV	1336	46500	0.84%	0.372%
326	21.698	21.687	21.705	VV	1201	12635	0.23%	0.101%
327	21.745	21.705	21.839	VV	1155	82173	1.48%	0.658%
328	21.848	21.839	21.938	VV	890	43192	0.78%	0.346%
329	21.993	21.938	22.034	VV	644	30903	0.56%	0.247%
330	22.053	22.034	22.108	VV	471	15011	0.27%	0.120%
331	22.134	22.108	22.167	VV	241	6583	0.12%	0.053%
332	22.175	22.167	22.183	VV	115	927	0.02%	0.007%
333	22.195	22.183	22.207	PV	78	865	0.02%	0.007%

Sum of corrected areas: 12495336

Aliphatic EPH 021125.M Sat Mar 01 01:27:55 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	75.2
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
FD049137.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.43	J	0.40	0.89	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.63	J	0.45	1.33	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.48		1.27	2.21	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.08	J	2.65	3.54	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	64.4		40 - 140	129%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	66.4		40 - 140	133%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	51.4		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:	Q1421-07	Acq On:	28 Feb 2025 15:16
Client Sample ID:	P001-CLAY-CF01-02	Operator:	YP/AJ
Data file:	FD049137.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	4.076	5.794	778390	4.895	200	ug/ml
Aromatic C12-C16	5.795	8.396	1143053	7.103	300	ug/ml
Aromatic C16-C21	8.397	12.661	4292784	27.992	500	ug/ml
Aromatic C21-C36	12.662	18.073	4978028	34.783	800	ug/ml
Aromatic EPH	4.076	18.073	11192255	74.773		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8318590	51.42		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	9217255	64.41		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5835480	66.38		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049137.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 15:16
Operator : YP/AJ
Sample : Q1421-07
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Mar 01 02:19:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.351	9217255	64.407 ug/ml
Spiked Amount 50.000		Recovery = 128.81%	
6) S 2-Flurobiphenyl (SURR)	8.201	5835480	66.379 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 132.76%#	
11) S ortho-Terphenyl (SURR)	11.237	8318590	51.421 ug/ml
Spiked Amount 50.000		Recovery = 102.84%	
Target Compounds			

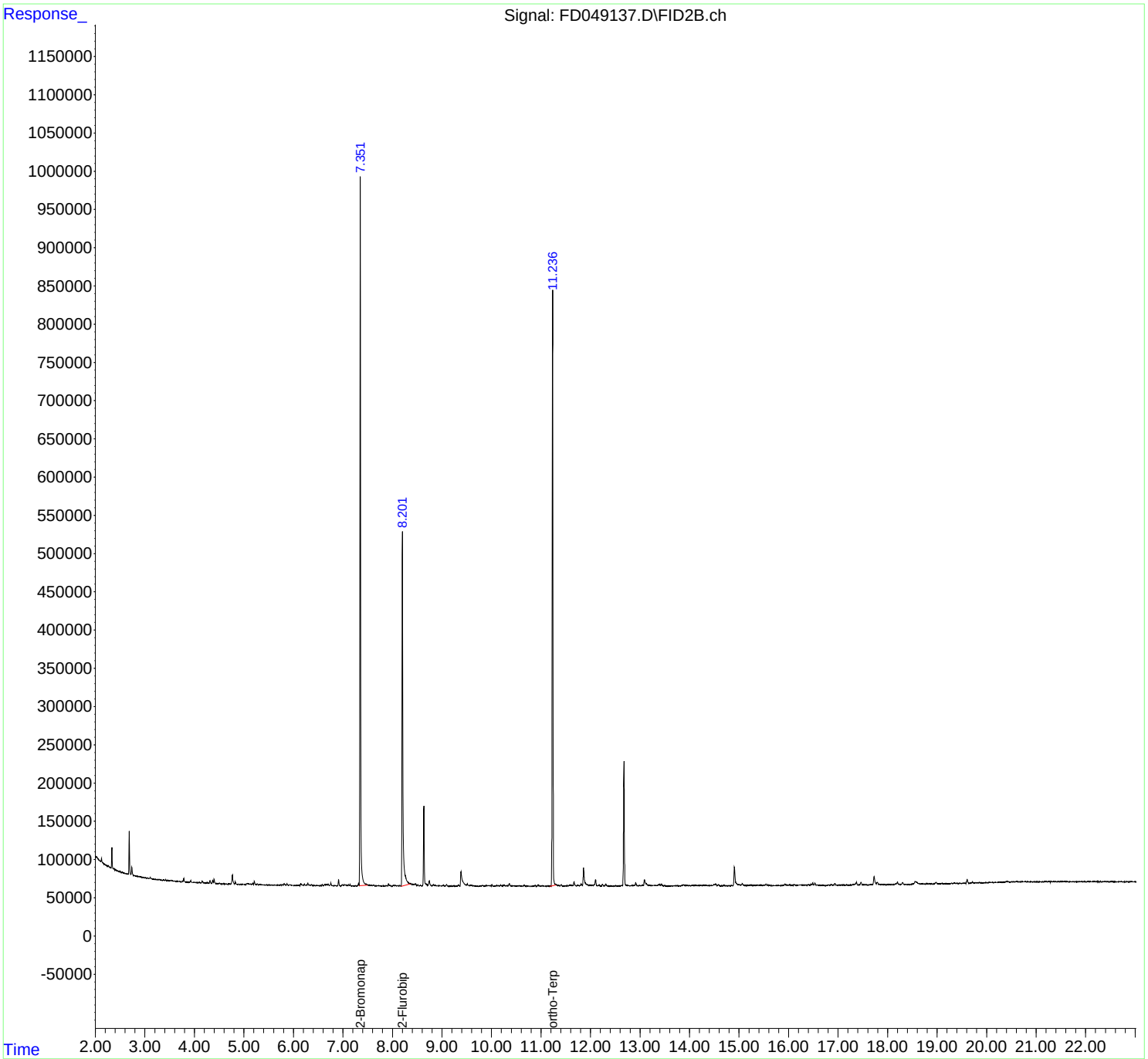
(f)=RT Delta > 1/2 Window (m)=manual int.

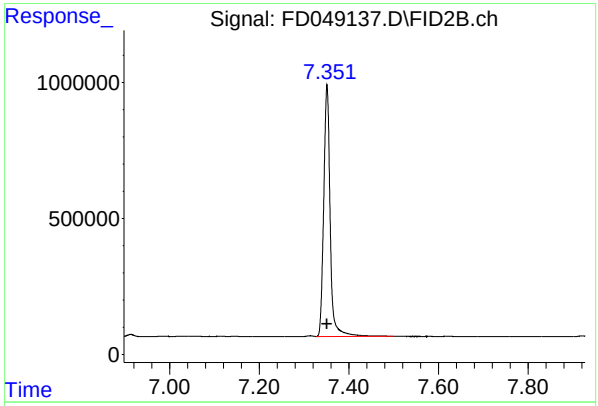
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049137.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 15:16
Operator : YP/AJ
Sample : Q1421-07
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Mar 01 02:19:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

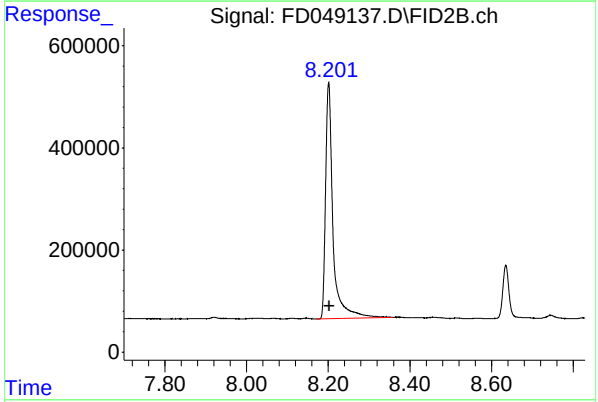




#4 2-Bromonaphthalene (SURR)

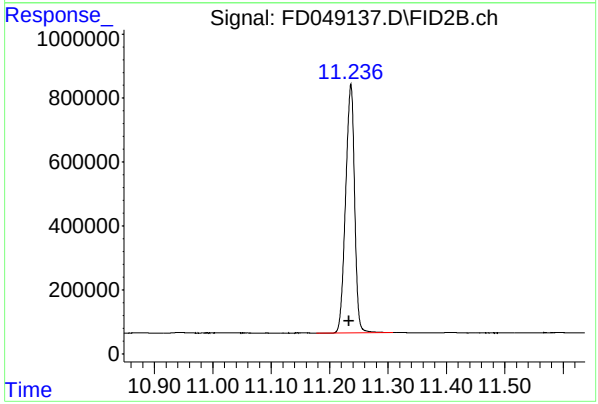
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 9217255
Conc: 64.41 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: -0.001 min
Response: 5835480
Conc: 66.38 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.003 min
Response: 8318590
Conc: 51.42 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049137.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 15:16
Sample : Q1421-07
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.061	4.042	4.099	BV	230	3842	0.04%	0.011%
2	4.103	4.099	4.127	VV	236	1932	0.02%	0.006%
3	4.135	4.127	4.141	PV	285	1120	0.01%	0.003%
4	4.158	4.141	4.227	VV	2568	36503	0.39%	0.104%
5	4.258	4.227	4.295	VV	866	10532	0.11%	0.030%
6	4.314	4.295	4.337	PV	3938	40217	0.43%	0.115%
7	4.369	4.337	4.383	VV	4275	50331	0.54%	0.144%
8	4.398	4.383	4.447	VV	5842	71055	0.76%	0.203%
9	4.455	4.447	4.475	VV	347	4094	0.04%	0.012%
10	4.487	4.475	4.492	VV	603	4391	0.05%	0.013%
11	4.508	4.492	4.571	VV	955	15899	0.17%	0.045%
12	4.583	4.571	4.595	VV	578	5649	0.06%	0.016%
13	4.597	4.595	4.615	VV	582	2488	0.03%	0.007%
14	4.642	4.628	4.674	PV	211	2957	0.03%	0.008%
15	4.688	4.674	4.724	VV	784	12017	0.13%	0.034%
16	4.767	4.724	4.810	VV	12448	185799	1.99%	0.530%
17	4.826	4.810	4.864	VV	2852	36233	0.39%	0.103%
18	4.870	4.864	4.875	VV	259	1397	0.01%	0.004%
19	4.879	4.875	4.892	VV	319	1837	0.02%	0.005%
20	4.896	4.892	4.918	VV	172	1195	0.01%	0.003%
21	4.934	4.918	4.941	VV	302	1773	0.02%	0.005%
22	4.966	4.941	4.980	VV	531	6842	0.07%	0.020%
23	4.986	4.980	5.027	VV	335	6706	0.07%	0.019%
24	5.069	5.035	5.119	VV	1457	51559	0.55%	0.147%
25	5.134	5.119	5.150	VV	1005	14791	0.16%	0.042%
26	5.178	5.150	5.194	VV	1762	28242	0.30%	0.081%
27	5.211	5.194	5.236	VV	4694	56781	0.61%	0.162%
28	5.242	5.236	5.247	VV	655	4050	0.04%	0.012%
29	5.251	5.247	5.253	VV	657	2314	0.02%	0.007%
30	5.268	5.253	5.295	VV	1427	19602	0.21%	0.056%
31	5.313	5.295	5.324	VV	531	6617	0.07%	0.019%
32	5.333	5.324	5.359	VV	720	11150	0.12%	0.032%
33	5.363	5.359	5.376	VV	553	3930	0.04%	0.011%
34	5.383	5.376	5.409	VV	313	4494	0.05%	0.013%
35	5.422	5.409	5.439	VV	442	3951	0.04%	0.011%
36	5.464	5.439	5.510	PV	647	12416	0.13%	0.035%

rteres

37	5.522	5.510	5.528	VV	388	3138	0.03%	0.009%
38	5.539	5.528	5.552	VV	340	3891	0.04%	0.011%
39	5.558	5.552	5.576	VV	307	3389	0.04%	0.010%
40	5.583	5.576	5.593	VV	249	1422	0.02%	0.004%
41	5.608	5.593	5.614	PV	240	1641	0.02%	0.005%
42	5.619	5.614	5.629	VV	301	1438	0.02%	0.004%
43	5.639	5.629	5.655	VV	299	3167	0.03%	0.009%
44	5.659	5.655	5.664	VV	254	1150	0.01%	0.003%
45	5.672	5.664	5.680	VV	396	2843	0.03%	0.008%
46	5.684	5.680	5.698	VV	363	2950	0.03%	0.008%
47	5.705	5.698	5.710	VV	381	2182	0.02%	0.006%
48	5.731	5.710	5.755	VV	700	12577	0.13%	0.036%
49	5.771	5.755	5.795	VV	1235	17738	0.19%	0.051%
50	5.812	5.795	5.850	VV	2381	38562	0.41%	0.110%
51	5.871	5.850	5.907	VV	1973	28637	0.31%	0.082%
52	5.937	5.907	5.970	VV	1099	21908	0.23%	0.062%
53	5.980	5.970	6.034	VV	242	4815	0.05%	0.014%
54	6.045	6.034	6.057	VV	273	2026	0.02%	0.006%
55	6.062	6.057	6.075	VV	207	1464	0.02%	0.004%
56	6.106	6.075	6.129	VV	589	11074	0.12%	0.032%
57	6.151	6.129	6.194	VV	2838	48062	0.52%	0.137%
58	6.221	6.194	6.245	VV	2131	28221	0.30%	0.080%
59	6.261	6.245	6.274	VV	1134	13205	0.14%	0.038%
60	6.291	6.274	6.312	VV	3572	42372	0.45%	0.121%
61	6.321	6.312	6.344	VV	1082	12785	0.14%	0.036%
62	6.365	6.344	6.384	VV	1641	19390	0.21%	0.055%
63	6.390	6.384	6.399	VV	341	2598	0.03%	0.007%
64	6.416	6.399	6.452	VV	474	8307	0.09%	0.024%
65	6.454	6.452	6.462	VV	351	1331	0.01%	0.004%
66	6.478	6.462	6.494	VV	467	5789	0.06%	0.017%
67	6.504	6.494	6.533	VV	398	5345	0.06%	0.015%
68	6.543	6.533	6.553	VV	490	2790	0.03%	0.008%
69	6.579	6.553	6.607	PV	1841	22973	0.25%	0.066%
70	6.633	6.607	6.653	VV	1959	34450	0.37%	0.098%
71	6.678	6.653	6.690	VV	2245	36719	0.39%	0.105%
72	6.702	6.690	6.729	VV	1856	27781	0.30%	0.079%
73	6.757	6.729	6.815	VV	3736	58969	0.63%	0.168%
74	6.834	6.815	6.846	VV	548	7595	0.08%	0.022%
75	6.856	6.846	6.871	VV	814	7308	0.08%	0.021%
76	6.913	6.886	6.956	VV	8077	93291	1.00%	0.266%
77	6.987	6.956	7.009	VV	1595	30146	0.32%	0.086%
78	7.023	7.009	7.039	VV	1977	24923	0.27%	0.071%
79	7.043	7.039	7.049	VV	1259	7797	0.08%	0.022%
80	7.060	7.049	7.079	VV	1707	21345	0.23%	0.061%
81	7.088	7.079	7.098	VV	887	9279	0.10%	0.026%
82	7.117	7.098	7.131	VV	1487	21141	0.23%	0.060%
83	7.145	7.131	7.177	VV	1991	23195	0.25%	0.066%
84	7.182	7.177	7.190	VV	301	1775	0.02%	0.005%
85	7.193	7.190	7.202	VV	332	1711	0.02%	0.005%
86	7.216	7.202	7.227	VV	430	3539	0.04%	0.010%
87	7.257	7.242	7.272	PV	486	4391	0.05%	0.013%
88	7.275	7.272	7.285	VV	271	1799	0.02%	0.005%
89	7.314	7.285	7.329	VV	3384	37534	0.40%	0.107%

rteres

90	7.351	7.329	7.499	VV	927212	9327776	100.00%	26.604%
91	7.504	7.499	7.507	VV	1536	6825	0.07%	0.019%
92	7.512	7.507	7.519	VV	1674	11720	0.13%	0.033%
93	7.523	7.519	7.543	VV	1501	17134	0.18%	0.049%
94	7.548	7.543	7.550	VV	1119	5046	0.05%	0.014%
95	7.554	7.550	7.563	VV	1128	8286	0.09%	0.024%
96	7.582	7.563	7.594	VV	1242	19114	0.20%	0.055%
97	7.598	7.594	7.606	VV	776	5257	0.06%	0.015%
98	7.623	7.606	7.650	VV	1852	27328	0.29%	0.078%
99	7.672	7.650	7.690	VV	637	13017	0.14%	0.037%
100	7.716	7.690	7.730	VV	845	14030	0.15%	0.040%
101	7.739	7.730	7.775	VV	480	9557	0.10%	0.027%
102	7.785	7.775	7.806	VV	336	3500	0.04%	0.010%
103	7.815	7.806	7.848	VV	448	4325	0.05%	0.012%
104	7.865	7.848	7.876	VV	634	6255	0.07%	0.018%
105	7.881	7.876	7.897	VV	511	5567	0.06%	0.016%
106	7.921	7.897	7.945	VV	3222	42612	0.46%	0.122%
107	7.949	7.945	7.990	VV	925	12377	0.13%	0.035%
108	8.028	7.990	8.048	VV	1231	29434	0.32%	0.084%
109	8.065	8.048	8.093	VV	1369	18942	0.20%	0.054%
110	8.114	8.093	8.134	VV	1201	16087	0.17%	0.046%
111	8.146	8.134	8.172	VV	1541	16341	0.18%	0.047%
112	8.201	8.172	8.358	PV	464798	6016440	64.50%	17.160%
113	8.372	8.358	8.398	VV	3583	73957	0.79%	0.211%
114	8.412	8.398	8.420	VV	2702	32899	0.35%	0.094%
115	8.428	8.420	8.439	VV	2669	27178	0.29%	0.078%
116	8.456	8.439	8.497	VV	3385	82847	0.89%	0.236%
117	8.516	8.497	8.548	VV	1937	36668	0.39%	0.105%
118	8.568	8.548	8.595	VV	1460	27812	0.30%	0.079%
119	8.635	8.595	8.684	VV	105075	1151341	12.34%	3.284%
120	8.690	8.684	8.714	VV	2564	34329	0.37%	0.098%
121	8.745	8.714	8.792	VV	7393	137931	1.48%	0.393%
122	8.795	8.792	8.805	VV	960	5913	0.06%	0.017%
123	8.825	8.805	8.854	VV	2358	38990	0.42%	0.111%
124	8.870	8.854	8.900	VV	1382	24651	0.26%	0.070%
125	8.904	8.900	8.908	VV	644	2741	0.03%	0.008%
126	8.946	8.908	8.971	VV	955	26718	0.29%	0.076%
127	8.975	8.971	8.997	VV	591	6922	0.07%	0.020%
128	9.019	8.997	9.032	VV	1173	18042	0.19%	0.051%
129	9.038	9.032	9.069	VV	1124	14344	0.15%	0.041%
130	9.094	9.069	9.128	VV	2461	35119	0.38%	0.100%
131	9.167	9.147	9.219	VV	443	11983	0.13%	0.034%
132	9.238	9.219	9.264	VV	1094	13108	0.14%	0.037%
133	9.300	9.264	9.318	PV	444	9179	0.10%	0.026%
134	9.337	9.318	9.362	VV	2249	27529	0.30%	0.079%
135	9.385	9.362	9.492	VV	19028	504375	5.41%	1.439%
136	9.514	9.492	9.561	VV	3125	73001	0.78%	0.208%
137	9.582	9.561	9.626	VV	1486	46222	0.50%	0.132%
138	9.634	9.626	9.642	VV	910	7776	0.08%	0.022%
139	9.652	9.642	9.673	VV	956	12590	0.13%	0.036%
140	9.682	9.673	9.741	VV	662	10367	0.11%	0.030%
141	9.757	9.741	9.761	VV	301	2163	0.02%	0.006%

rteres

142	9.789	9.761	9.801	VV	777	12989	0.14%	0.037%
143	9.822	9.801	9.847	VV	1591	26035	0.28%	0.074%
144	9.861	9.847	9.869	VV	644	7058	0.08%	0.020%
145	9.903	9.869	9.920	VV	1258	25525	0.27%	0.073%
146	9.934	9.920	9.960	VV	1147	20271	0.22%	0.058%
147	10.011	9.960	10.049	VV	2493	49009	0.53%	0.140%
148	10.053	10.049	10.059	VV	403	1610	0.02%	0.005%
149	10.071	10.059	10.079	VV	427	3645	0.04%	0.010%
150	10.102	10.079	10.116	VV	1327	19872	0.21%	0.057%
151	10.137	10.116	10.158	VV	1312	20464	0.22%	0.058%
152	10.181	10.158	10.205	VV	1630	29493	0.32%	0.084%
153	10.216	10.205	10.228	VV	809	9743	0.10%	0.028%
154	10.254	10.228	10.279	VV	1700	33887	0.36%	0.097%
155	10.293	10.279	10.308	VV	1126	14541	0.16%	0.041%
156	10.328	10.308	10.336	VV	1104	14631	0.16%	0.042%
157	10.363	10.336	10.385	VV	3886	58730	0.63%	0.168%
158	10.407	10.385	10.421	VV	864	15771	0.17%	0.045%
159	10.427	10.421	10.435	VV	645	4632	0.05%	0.013%
160	10.457	10.435	10.477	VV	979	17257	0.19%	0.049%
161	10.493	10.477	10.511	VV	680	9575	0.10%	0.027%
162	10.525	10.511	10.545	VV	770	12293	0.13%	0.035%
163	10.563	10.545	10.581	VV	862	12385	0.13%	0.035%
164	10.600	10.581	10.617	VV	644	9787	0.10%	0.028%
165	10.632	10.617	10.643	VV	743	7870	0.08%	0.022%
166	10.660	10.643	10.685	VV	1913	24759	0.27%	0.071%
167	10.698	10.685	10.717	VV	839	9571	0.10%	0.027%
168	10.727	10.717	10.745	VV	460	6428	0.07%	0.018%
169	10.753	10.745	10.762	VV	431	3198	0.03%	0.009%
170	10.768	10.762	10.776	VV	429	2977	0.03%	0.008%
171	10.790	10.776	10.810	VV	372	6311	0.07%	0.018%
172	10.845	10.810	10.851	VV	475	8223	0.09%	0.023%
173	10.877	10.851	10.905	VV	1208	20379	0.22%	0.058%
174	10.911	10.905	10.915	VV	276	1263	0.01%	0.004%
175	10.943	10.915	10.979	VV	2273	35821	0.38%	0.102%
176	11.017	10.979	11.021	VV	734	13719	0.15%	0.039%
177	11.032	11.021	11.054	VV	968	13347	0.14%	0.038%
178	11.058	11.054	11.079	VV	499	5767	0.06%	0.016%
179	11.093	11.079	11.110	VV	488	5962	0.06%	0.017%
180	11.121	11.110	11.126	VV	379	2765	0.03%	0.008%
181	11.129	11.126	11.132	VV	289	1185	0.01%	0.003%
182	11.154	11.132	11.200	VV	586	12780	0.14%	0.036%
183	11.237	11.200	11.355	PV	779933	8439531	90.48%	24.070%
184	11.361	11.355	11.376	VV	1005	10298	0.11%	0.029%
185	11.409	11.376	11.437	VV	2087	42811	0.46%	0.122%
186	11.452	11.437	11.459	VV	655	7408	0.08%	0.021%
187	11.471	11.459	11.474	VV	540	4458	0.05%	0.013%
188	11.478	11.474	11.487	VV	543	3583	0.04%	0.010%
189	11.514	11.487	11.524	VV	849	15240	0.16%	0.043%
190	11.531	11.524	11.544	VV	796	7370	0.08%	0.021%
191	11.593	11.544	11.617	VV	1761	54121	0.58%	0.154%
192	11.669	11.617	11.716	VV	6028	118036	1.27%	0.337%
193	11.732	11.716	11.746	VV	1402	18787	0.20%	0.054%
194	11.758	11.746	11.782	VV	1269	21154	0.23%	0.060%

rteres

195	11.816	11.782	11.840	VV	2666	59641	0.64%	0.170%
196	11.860	11.840	11.927	VV	24312	414369	4.44%	1.182%
197	11.938	11.927	11.967	VV	2511	45297	0.49%	0.129%
198	11.980	11.967	11.996	VV	1620	24767	0.27%	0.071%
199	12.014	11.996	12.053	VV	1496	44115	0.47%	0.126%
200	12.077	12.053	12.081	VV	1938	26255	0.28%	0.075%
201	12.103	12.081	12.134	VV	8413	122473	1.31%	0.349%
202	12.148	12.134	12.157	VV	934	11334	0.12%	0.032%
203	12.179	12.157	12.215	VV	1897	32806	0.35%	0.094%
204	12.242	12.215	12.280	VV	2853	47625	0.51%	0.136%
205	12.308	12.280	12.353	VV	3025	53090	0.57%	0.151%
206	12.375	12.353	12.395	VV	529	9451	0.10%	0.027%
207	12.399	12.395	12.421	VV	342	3833	0.04%	0.011%
208	12.435	12.421	12.443	VV	338	2539	0.03%	0.007%
209	12.507	12.459	12.546	PV	668	21097	0.23%	0.060%
210	12.556	12.546	12.577	VV	542	6575	0.07%	0.019%
211	12.599	12.577	12.610	VV	733	9715	0.10%	0.028%
212	12.634	12.610	12.647	VV	1117	20270	0.22%	0.058%
213	12.676	12.647	12.719	VV	162731	1918115	20.56%	5.471%
214	12.741	12.719	12.779	VV	1435	37025	0.40%	0.106%
215	12.783	12.779	12.794	VV	812	6447	0.07%	0.018%
216	12.801	12.794	12.818	VV	762	10359	0.11%	0.030%
217	12.857	12.818	12.874	VV	1095	30941	0.33%	0.088%
218	12.913	12.874	12.942	VV	4278	79069	0.85%	0.226%
219	12.960	12.942	12.971	VV	784	12184	0.13%	0.035%
220	12.997	12.971	13.019	VV	820	20083	0.22%	0.057%
221	13.040	13.019	13.068	VV	1277	29148	0.31%	0.083%
222	13.090	13.068	13.165	VV	8239	208035	2.23%	0.593%
223	13.171	13.165	13.214	VV	1276	28153	0.30%	0.080%
224	13.224	13.214	13.241	VV	977	13153	0.14%	0.038%
225	13.280	13.241	13.292	VV	1139	26604	0.29%	0.076%
226	13.299	13.292	13.319	VV	1045	14196	0.15%	0.040%
227	13.334	13.319	13.347	VV	925	13750	0.15%	0.039%
228	13.390	13.347	13.412	VV	2422	61347	0.66%	0.175%
229	13.431	13.412	13.465	VV	2806	44666	0.48%	0.127%
230	13.475	13.465	13.507	VV	614	10825	0.12%	0.031%
231	13.519	13.507	13.541	VV	454	6834	0.07%	0.019%
232	13.550	13.541	13.604	VV	328	5086	0.05%	0.015%
233	13.650	13.624	13.666	VV	254	5408	0.06%	0.015%
234	13.725	13.666	13.747	VV	480	13286	0.14%	0.038%
235	13.756	13.747	13.815	VV	439	11143	0.12%	0.032%
236	13.880	13.815	13.937	VV	1757	64057	0.69%	0.183%
237	13.944	13.937	13.972	VV	745	12709	0.14%	0.036%
238	13.997	13.972	14.013	VV	687	12192	0.13%	0.035%
239	14.052	14.013	14.070	VV	701	17327	0.19%	0.049%
240	14.114	14.070	14.138	VV	907	30367	0.33%	0.087%
241	14.158	14.138	14.223	VV	825	34688	0.37%	0.099%
242	14.240	14.223	14.260	VV	789	15124	0.16%	0.043%
243	14.294	14.260	14.315	VV	893	26598	0.29%	0.076%
244	14.330	14.315	14.359	VV	926	19343	0.21%	0.055%
245	14.393	14.359	14.425	VV	823	22522	0.24%	0.064%
246	14.453	14.425	14.467	VV	565	11330	0.12%	0.032%

247	14.495	14.467	14.512	VV	2064	38891	0.42%	0.111%
248	14.528	14.512	14.561	VV	2929	47734	0.51%	0.136%
249	14.584	14.561	14.670	VV	1823	36943	0.40%	0.105%
250	14.698	14.670	14.770	VV	1034	23190	0.25%	0.066%
251	14.799	14.770	14.819	VV	336	7270	0.08%	0.021%
252	14.839	14.819	14.869	VV	537	10213	0.11%	0.029%
253	14.905	14.869	15.030	VV	24588	492295	5.28%	1.404%
254	15.066	15.030	15.148	VV	2847	82612	0.89%	0.236%
255	15.170	15.148	15.213	VV	824	26730	0.29%	0.076%
256	15.243	15.213	15.267	VV	1358	27597	0.30%	0.079%
257	15.276	15.267	15.309	VV	436	9726	0.10%	0.028%
258	15.339	15.309	15.354	VV	826	15746	0.17%	0.045%
259	15.388	15.354	15.419	VV	956	28561	0.31%	0.081%
260	15.435	15.419	15.478	VV	1206	25110	0.27%	0.072%
261	15.505	15.478	15.521	VV	1168	19495	0.21%	0.056%
262	15.543	15.521	15.570	VV	2366	40467	0.43%	0.115%
263	15.584	15.570	15.603	VV	916	13817	0.15%	0.039%
264	15.619	15.603	15.655	VV	621	11891	0.13%	0.034%
265	15.658	15.655	15.674	VV	187	1350	0.01%	0.004%
266	15.705	15.674	15.736	VV	321	6175	0.07%	0.018%
267	15.753	15.736	15.780	VV	372	5634	0.06%	0.016%
268	15.786	15.780	15.814	VV	190	3084	0.03%	0.009%
269	15.826	15.814	15.844	VV	340	2660	0.03%	0.008%
270	15.864	15.844	15.890	PV	343	4899	0.05%	0.014%
271	15.925	15.890	15.976	VV	2183	55271	0.59%	0.158%
272	15.985	15.976	16.002	VV	1017	11851	0.13%	0.034%
273	16.025	16.002	16.057	VV	1171	26455	0.28%	0.075%
274	16.063	16.057	16.080	VV	569	6674	0.07%	0.019%
275	16.119	16.080	16.157	VV	1291	36316	0.39%	0.104%
276	16.174	16.157	16.183	VV	607	9363	0.10%	0.027%
277	16.227	16.183	16.308	VV	1028	58833	0.63%	0.168%
278	16.327	16.308	16.364	VV	910	23713	0.25%	0.068%
279	16.401	16.364	16.425	VV	1241	31746	0.34%	0.091%
280	16.454	16.425	16.469	VV	1719	31099	0.33%	0.089%
281	16.488	16.469	16.510	VV	2972	46354	0.50%	0.132%
282	16.532	16.510	16.562	VV	3162	50999	0.55%	0.145%
283	16.583	16.562	16.610	VV	994	19938	0.21%	0.057%
284	16.618	16.610	16.629	VV	479	4295	0.05%	0.012%
285	16.662	16.629	16.686	VV	505	13670	0.15%	0.039%
286	16.698	16.686	16.728	VV	404	7157	0.08%	0.020%
287	16.805	16.728	16.834	PV	718	18874	0.20%	0.054%
288	16.859	16.834	16.912	VV	1261	32686	0.35%	0.093%
289	16.937	16.912	16.994	VV	2578	43168	0.46%	0.123%
290	17.027	16.994	17.066	VV	588	17580	0.19%	0.050%
291	17.073	17.066	17.081	VV	464	3283	0.04%	0.009%
292	17.095	17.081	17.105	VV	374	4921	0.05%	0.014%
293	17.115	17.105	17.139	VV	453	6973	0.07%	0.020%
294	17.169	17.139	17.230	VV	545	20368	0.22%	0.058%
295	17.240	17.230	17.258	VV	253	4340	0.05%	0.012%
296	17.274	17.258	17.282	VV	332	4287	0.05%	0.012%
297	17.342	17.282	17.350	VV	1764	37344	0.40%	0.107%
298	17.370	17.350	17.401	VV	3532	57015	0.61%	0.163%
299	17.412	17.401	17.430	VV	392	6024	0.06%	0.017%

rteres

300	17.462	17.430	17.540	VV	3874	74254	0.80%	0.212%
301	17.573	17.540	17.613	VV	560	11119	0.12%	0.032%
302	17.664	17.613	17.692	PV	631	15297	0.16%	0.044%
303	17.726	17.692	17.770	VV	10983	212209	2.28%	0.605%
304	17.790	17.770	17.867	VV	3665	84212	0.90%	0.240%
305	17.898	17.867	17.914	VV	646	14171	0.15%	0.040%
306	17.927	17.914	17.975	VV	525	8247	0.09%	0.024%
307	18.000	17.975	18.014	PV	433	5034	0.05%	0.014%
308	18.027	18.014	18.035	VV	264	2057	0.02%	0.006%
309	18.056	18.035	18.090	VV	500	6627	0.07%	0.019%
310	18.198	18.090	18.264	VV	3292	81894	0.88%	0.234%

Sum of corrected areas: 35061727

Aromatic EPH 021125.M Sat Mar 01 03:59:36 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	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
02/26/25 11:45	02/27/25 15:17	PB166883

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	FC068314.D
Aliphatic C12-C16	Aliphatic C12-C16	7.61	J	1	3.61	20.0	ug/l	FC068314.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068314.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068314.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068314.D
Aromatic C10-C12	Aromatic C10-C12	10.5	J	1	3.32	20.0	ug/l	FD049123.D
Aromatic C12-C16	Aromatic C12-C16	14.4	J	1	3.69	30.0	ug/l	FD049123.D
Aromatic C16-C21	Aromatic C16-C21	48.3	J	1	12.7	50.0	ug/l	FD049123.D
Aromatic C21-C36	Aromatic C21-C36	92.7		1	25.2	80.0	ug/l	FD049123.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	166	J		44.9	180	ug/l	
Total EPH	Total EPH	174	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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	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
FC068314.D	1	02/26/25	02/27/25	PB166883

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	7.61	J	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)	32.8		40 - 140	66%	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:	Q1421-08	Acq On:	27 Feb 2025 15:17
Client Sample ID:	P001-CLAY-CF01-02	Operator:	YP/AJ
Data file:	FC068314.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.370	320371	2.272	300	ug/ml
Aliphatic C12-C16	6.371	9.754	520165	3.806	200	ug/ml
Aliphatic C16-C21	9.755	13.108	457228	3.474	300	ug/ml
Aliphatic C21-C28	13.109	16.762	555317	4.526	400	ug/ml
Aliphatic C28-C40	16.763	21.566	2645290	25.721	600	ug/ml
Aliphatic EPH	3.104	21.566	4498371	39.798		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	3691135	32.82		ug/ml
Aliphatic C9-C28	3.104	16.762	1853081	14.078	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068314.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 15:17
Operator : YP/AJ
Sample : Q1421-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Mar 05 04:44:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	3691135	32.818 ug/ml
Spiked Amount 50.000		Recovery = 65.64%	
Target Compounds			

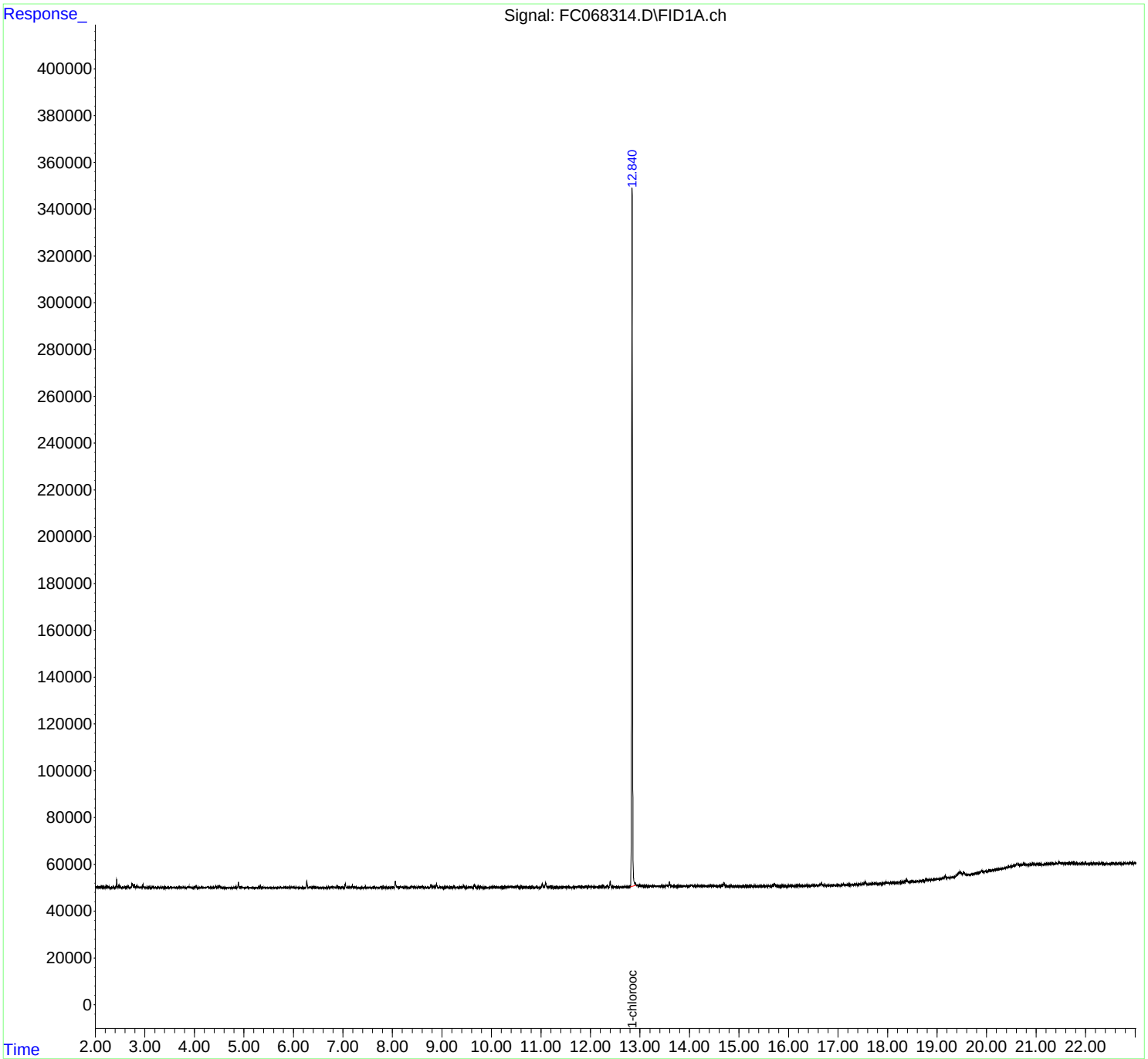
(f)=RT Delta > 1/2 Window (m)=manual int.

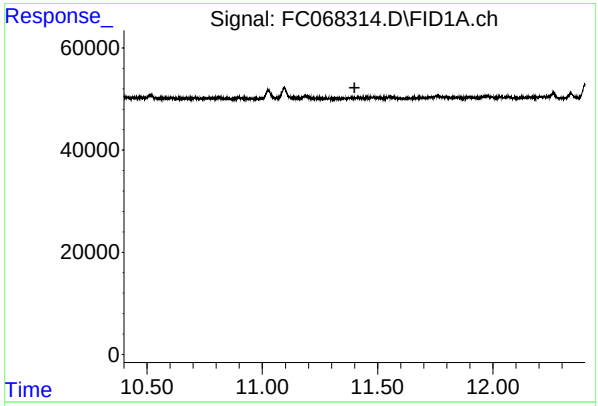
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068314.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 15:17
Operator : YP/AJ
Sample : Q1421-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Mar 05 04:44:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

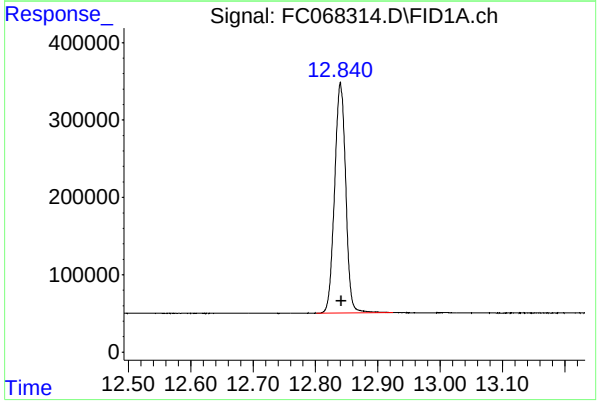




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-02



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.001 min
Response: 3691135
Conc: 32.82 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068314.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 15:17
Sample : Q1421-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.359	2.304	2.403	BV	283	1902	0.05%	0.022%
2	2.432	2.403	2.454	PV	3378	26569	0.71%	0.307%
3	2.472	2.454	2.511	VV	646	7138	0.19%	0.083%
4	2.524	2.511	2.535	VV	78	927	0.02%	0.011%
5	2.542	2.535	2.551	VV	66	447	0.01%	0.005%
6	2.558	2.551	2.581	PV	127	1748	0.05%	0.020%
7	2.590	2.581	2.631	VV	212	2676	0.07%	0.031%
8	2.655	2.631	2.682	VV	502	6287	0.17%	0.073%
9	2.741	2.682	2.771	PV	1803	27107	0.72%	0.313%
10	2.788	2.771	2.820	VV	1256	13625	0.36%	0.158%
11	2.838	2.820	2.902	VV	1090	15257	0.41%	0.176%
12	2.918	2.902	2.940	VV	186	2726	0.07%	0.032%
13	2.961	2.940	3.011	VV	1372	15031	0.40%	0.174%
14	3.051	3.011	3.100	VV	165	5507	0.15%	0.064%
15	3.112	3.100	3.128	VV	104	1359	0.04%	0.016%
16	3.208	3.128	3.326	VV	239	11287	0.30%	0.130%
17	3.340	3.326	3.375	VV	135	1569	0.04%	0.018%
18	3.477	3.375	3.507	VV	204	6983	0.19%	0.081%
19	3.526	3.507	3.562	VV	209	3351	0.09%	0.039%
20	3.573	3.562	3.678	VV	134	5200	0.14%	0.060%
21	3.695	3.678	3.757	VV	244	5779	0.15%	0.067%
22	3.774	3.757	3.822	VV	261	4778	0.13%	0.055%
23	3.865	3.822	3.881	PV	354	5607	0.15%	0.065%
24	3.893	3.881	3.921	VV	579	6700	0.18%	0.077%
25	3.929	3.921	3.944	VV	105	1388	0.04%	0.016%
26	3.957	3.944	3.981	VV	212	2459	0.07%	0.028%
27	4.036	3.981	4.126	VV	583	16604	0.44%	0.192%
28	4.134	4.126	4.141	VV	92	848	0.02%	0.010%
29	4.156	4.141	4.220	VV	167	6034	0.16%	0.070%
30	4.233	4.220	4.242	VV	158	1398	0.04%	0.016%
31	4.263	4.242	4.286	VV	529	7916	0.21%	0.092%
32	4.299	4.286	4.347	VV	263	6011	0.16%	0.069%
33	4.369	4.347	4.394	VV	333	6329	0.17%	0.073%
34	4.428	4.394	4.468	VV	796	13782	0.37%	0.159%
35	4.484	4.468	4.497	VV	575	5907	0.16%	0.068%
36	4.514	4.497	4.569	VV	1015	12328	0.33%	0.143%

rteres

37	4.631	4.569	4.648	VV	151	3688	0.10%	0.043%
38	4.656	4.648	4.694	VV	102	1678	0.04%	0.019%
39	4.707	4.694	4.734	VV	94	1575	0.04%	0.018%
40	4.748	4.734	4.776	VV	90	530	0.01%	0.006%
41	4.816	4.776	4.840	PV	144	2317	0.06%	0.027%
42	4.890	4.840	4.924	VV	2466	31044	0.83%	0.359%
43	4.947	4.924	5.044	VV	510	8903	0.24%	0.103%
44	5.084	5.044	5.120	VV	160	3849	0.10%	0.044%
45	5.151	5.120	5.194	VV	129	3700	0.10%	0.043%
46	5.208	5.194	5.231	VV	56	937	0.02%	0.011%
47	5.253	5.231	5.268	VV	135	1381	0.04%	0.016%
48	5.292	5.268	5.309	PV	397	4644	0.12%	0.054%
49	5.332	5.309	5.367	VV	845	11012	0.29%	0.127%
50	5.389	5.367	5.429	VV	229	3943	0.10%	0.046%
51	5.474	5.429	5.528	VV	183	4622	0.12%	0.053%
52	5.576	5.528	5.614	VV	157	4094	0.11%	0.047%
53	5.622	5.614	5.681	VV	113	3276	0.09%	0.038%
54	5.693	5.681	5.714	VV	85	1363	0.04%	0.016%
55	5.746	5.714	5.774	VV	327	4830	0.13%	0.056%
56	5.797	5.774	5.808	VV	162	1954	0.05%	0.023%
57	5.844	5.808	5.861	VV	290	5162	0.14%	0.060%
58	5.888	5.861	5.910	VV	266	5468	0.15%	0.063%
59	5.931	5.910	5.971	VV	454	8696	0.23%	0.101%
60	5.991	5.971	6.028	VV	342	6194	0.16%	0.072%
61	6.052	6.028	6.094	VV	255	6318	0.17%	0.073%
62	6.106	6.094	6.168	VV	106	3434	0.09%	0.040%
63	6.183	6.168	6.197	VV	120	1512	0.04%	0.017%
64	6.215	6.197	6.224	VV	142	1512	0.04%	0.017%
65	6.238	6.224	6.247	VV	150	1718	0.05%	0.020%
66	6.270	6.247	6.304	VV	3057	37136	0.99%	0.429%
67	6.317	6.304	6.335	VV	341	4056	0.11%	0.047%
68	6.352	6.335	6.373	VV	526	6208	0.17%	0.072%
69	6.387	6.373	6.402	VV	347	3505	0.09%	0.041%
70	6.418	6.402	6.438	VV	680	7423	0.20%	0.086%
71	6.452	6.438	6.472	VV	294	3299	0.09%	0.038%
72	6.489	6.472	6.538	VV	356	5376	0.14%	0.062%
73	6.542	6.538	6.558	VV	98	684	0.02%	0.008%
74	6.595	6.558	6.615	PV	91	1625	0.04%	0.019%
75	6.628	6.615	6.644	VV	103	1241	0.03%	0.014%
76	6.709	6.644	6.741	VV	440	7713	0.21%	0.089%
77	6.761	6.741	6.795	VV	501	8856	0.24%	0.102%
78	6.812	6.795	6.854	VV	477	9603	0.26%	0.111%
79	6.889	6.854	6.913	VV	724	11412	0.30%	0.132%
80	6.928	6.913	6.956	VV	160	2797	0.07%	0.032%
81	6.971	6.956	7.010	VV	169	4407	0.12%	0.051%
82	7.049	7.010	7.078	VV	1786	21400	0.57%	0.247%
83	7.107	7.078	7.144	VV	315	7470	0.20%	0.086%
84	7.156	7.144	7.170	VV	345	4255	0.11%	0.049%
85	7.191	7.170	7.236	VV	822	14551	0.39%	0.168%
86	7.252	7.236	7.266	VV	309	4172	0.11%	0.048%
87	7.281	7.266	7.320	VV	377	5749	0.15%	0.066%
88	7.331	7.320	7.377	VV	160	3250	0.09%	0.038%
89	7.401	7.377	7.421	VV	182	2477	0.07%	0.029%

rteres

90	7.450	7.421	7.487	VV	657	9271	0.25%	0.107%
91	7.516	7.487	7.580	VV	192	6898	0.18%	0.080%
92	7.611	7.580	7.631	VV	310	5195	0.14%	0.060%
93	7.644	7.631	7.657	VV	256	2584	0.07%	0.030%
94	7.666	7.657	7.688	VV	197	2241	0.06%	0.026%
95	7.711	7.688	7.733	VV	143	3004	0.08%	0.035%
96	7.755	7.733	7.776	VV	570	7537	0.20%	0.087%
97	7.811	7.776	7.834	VV	935	12807	0.34%	0.148%
98	7.847	7.834	7.868	VV	220	3173	0.08%	0.037%
99	7.878	7.868	7.892	VV	184	1719	0.05%	0.020%
100	7.911	7.892	7.948	VV	187	3628	0.10%	0.042%
101	7.967	7.948	7.991	PV	474	6710	0.18%	0.078%
102	7.998	7.991	8.033	VV	237	4554	0.12%	0.053%
103	8.059	8.033	8.128	VV	2879	47119	1.25%	0.545%
104	8.150	8.128	8.188	VV	388	11017	0.29%	0.127%
105	8.206	8.188	8.226	VV	380	6007	0.16%	0.069%
106	8.251	8.226	8.271	VV	379	5801	0.15%	0.067%
107	8.290	8.271	8.324	VV	443	5810	0.15%	0.067%
108	8.335	8.324	8.354	VV	117	1588	0.04%	0.018%
109	8.402	8.354	8.454	VV	528	20529	0.55%	0.237%
110	8.461	8.454	8.495	VV	326	6843	0.18%	0.079%
111	8.515	8.495	8.532	VV	409	7255	0.19%	0.084%
112	8.546	8.532	8.557	VV	340	4630	0.12%	0.054%
113	8.568	8.557	8.581	VV	308	4389	0.12%	0.051%
114	8.599	8.581	8.637	VV	620	12919	0.34%	0.149%
115	8.657	8.637	8.688	VV	315	4574	0.12%	0.053%
116	8.709	8.688	8.737	VV	245	4478	0.12%	0.052%
117	8.777	8.737	8.796	VV	1473	20313	0.54%	0.235%
118	8.813	8.796	8.864	VV	655	18314	0.49%	0.212%
119	8.891	8.864	8.951	VV	1490	28460	0.76%	0.329%
120	8.964	8.951	8.988	VV	364	5349	0.14%	0.062%
121	9.011	8.988	9.029	VV	331	4464	0.12%	0.052%
122	9.052	9.029	9.079	VV	199	4381	0.12%	0.051%
123	9.117	9.079	9.131	VV	251	5142	0.14%	0.059%
124	9.135	9.131	9.146	VV	165	1290	0.03%	0.015%
125	9.176	9.146	9.218	VV	408	9308	0.25%	0.108%
126	9.242	9.218	9.279	VV	648	10650	0.28%	0.123%
127	9.299	9.279	9.345	VV	266	5558	0.15%	0.064%
128	9.385	9.345	9.418	VV	401	8112	0.22%	0.094%
129	9.434	9.418	9.475	VV	767	11569	0.31%	0.134%
130	9.486	9.475	9.514	VV	139	2758	0.07%	0.032%
131	9.521	9.514	9.547	VV	177	2206	0.06%	0.026%
132	9.576	9.547	9.623	VV	346	7420	0.20%	0.086%
133	9.656	9.623	9.711	VV	1277	22678	0.60%	0.262%
134	9.724	9.711	9.742	VV	301	4029	0.11%	0.047%
135	9.749	9.742	9.790	VV	241	4619	0.12%	0.053%
136	9.801	9.790	9.864	VV	156	4770	0.13%	0.055%
137	9.905	9.864	9.921	VV	150	3066	0.08%	0.035%
138	9.934	9.921	9.948	VV	205	2032	0.05%	0.023%
139	9.969	9.948	9.988	VV	241	3589	0.10%	0.041%
140	10.044	9.988	10.064	VV	397	11041	0.29%	0.128%
141	10.080	10.064	10.104	VV	280	5428	0.14%	0.063%

rteres

142	10.134	10.104	10.149	VV	332	5990	0.16%	0.069%
143	10.161	10.149	10.194	VV	220	4140	0.11%	0.048%
144	10.221	10.194	10.230	VV	211	2972	0.08%	0.034%
145	10.255	10.230	10.303	VV	265	9861	0.26%	0.114%
146	10.337	10.303	10.372	VV	384	11852	0.32%	0.137%
147	10.397	10.372	10.431	VV	490	11539	0.31%	0.133%
148	10.441	10.431	10.457	VV	300	3842	0.10%	0.044%
149	10.471	10.457	10.488	VV	334	4788	0.13%	0.055%
150	10.517	10.488	10.552	VV	736	14468	0.39%	0.167%
151	10.564	10.552	10.593	VV	186	3666	0.10%	0.042%
152	10.604	10.593	10.629	VV	238	3466	0.09%	0.040%
153	10.638	10.629	10.668	VV	178	2581	0.07%	0.030%
154	10.712	10.668	10.736	VV	270	5711	0.15%	0.066%
155	10.772	10.736	10.795	VV	197	4755	0.13%	0.055%
156	10.813	10.795	10.871	VV	350	7362	0.20%	0.085%
157	10.897	10.871	10.981	VV	233	6021	0.16%	0.070%
158	10.988	10.981	10.996	VV	86	487	0.01%	0.006%
159	11.025	10.996	11.071	VV	1772	27655	0.74%	0.320%
160	11.095	11.071	11.153	VV	2223	36883	0.98%	0.426%
161	11.187	11.153	11.286	VV	598	15527	0.41%	0.179%
162	11.316	11.286	11.343	PV	134	2287	0.06%	0.026%
163	11.412	11.343	11.424	VV	198	6141	0.16%	0.071%
164	11.483	11.424	11.531	VV	333	12636	0.34%	0.146%
165	11.560	11.531	11.594	VV	337	8109	0.22%	0.094%
166	11.760	11.594	11.791	VV	602	24271	0.65%	0.281%
167	11.800	11.791	11.826	VV	247	4051	0.11%	0.047%
168	11.840	11.826	11.870	VV	243	4450	0.12%	0.051%
169	11.898	11.870	11.935	VV	311	7443	0.20%	0.086%
170	11.972	11.935	12.011	VV	518	13168	0.35%	0.152%
171	12.031	12.011	12.047	VV	304	4643	0.12%	0.054%
172	12.071	12.047	12.118	VV	330	7364	0.20%	0.085%
173	12.129	12.118	12.151	VV	184	2982	0.08%	0.034%
174	12.167	12.151	12.182	VV	199	3544	0.09%	0.041%
175	12.205	12.182	12.218	VV	300	5359	0.14%	0.062%
176	12.260	12.218	12.302	VV	952	17994	0.48%	0.208%
177	12.337	12.302	12.371	VV	980	14852	0.40%	0.172%
178	12.398	12.371	12.431	VV	2649	34594	0.92%	0.400%
179	12.460	12.431	12.475	VV	215	4165	0.11%	0.048%
180	12.485	12.475	12.498	VV	122	1508	0.04%	0.017%
181	12.514	12.498	12.558	VV	224	4428	0.12%	0.051%
182	12.567	12.558	12.578	VV	53	453	0.01%	0.005%
183	12.592	12.578	12.608	VV	108	911	0.02%	0.011%
184	12.615	12.608	12.623	PV	69	455	0.01%	0.005%
185	12.671	12.623	12.708	VV	268	7062	0.19%	0.082%
186	12.721	12.708	12.740	VV	216	2524	0.07%	0.029%
187	12.761	12.740	12.773	VV	221	3022	0.08%	0.035%
188	12.840	12.773	12.967	VV	295439	3756238	100.00%	43.420%
189	13.007	12.967	13.041	VV	857	29212	0.78%	0.338%
190	13.059	13.041	13.099	VV	580	16108	0.43%	0.186%
191	13.136	13.099	13.154	VV	416	12514	0.33%	0.145%
192	13.165	13.154	13.188	VV	401	7313	0.19%	0.085%
193	13.203	13.188	13.248	VV	474	14149	0.38%	0.164%
194	13.286	13.248	13.371	VV	579	31311	0.83%	0.362%

rteres

195	13.384	13.371	13.410	VV	432	8401	0.22%	0.097%
196	13.437	13.410	13.488	VV	410	16185	0.43%	0.187%
197	13.542	13.488	13.564	VV	967	21876	0.58%	0.253%
198	13.595	13.564	13.701	VV	2219	50757	1.35%	0.587%
199	13.722	13.701	13.759	VV	336	9008	0.24%	0.104%
200	13.825	13.759	13.881	VV	380	20545	0.55%	0.237%
201	13.900	13.881	13.917	VV	347	6505	0.17%	0.075%
202	13.951	13.917	13.964	VV	356	8049	0.21%	0.093%
203	14.033	13.964	14.134	VV	870	42157	1.12%	0.487%
204	14.158	14.134	14.200	VV	531	15514	0.41%	0.179%
205	14.214	14.200	14.224	VV	348	4958	0.13%	0.057%
206	14.231	14.224	14.279	VV	423	10815	0.29%	0.125%
207	14.298	14.279	14.338	VV	380	11823	0.31%	0.137%
208	14.360	14.338	14.411	VV	353	12825	0.34%	0.148%
209	14.468	14.411	14.491	VV	367	15090	0.40%	0.174%
210	14.503	14.491	14.527	VV	359	6015	0.16%	0.070%
211	14.538	14.527	14.581	VV	257	6983	0.19%	0.081%
212	14.652	14.581	14.672	VV	739	18392	0.49%	0.213%
213	14.697	14.672	14.751	VV	1645	32845	0.87%	0.380%
214	14.759	14.751	14.850	VV	240	8684	0.23%	0.100%
215	14.865	14.850	14.898	VV	273	4901	0.13%	0.057%
216	14.910	14.898	14.923	VV	159	1520	0.04%	0.018%
217	14.941	14.923	14.952	VV	136	1712	0.05%	0.020%
218	14.966	14.952	14.988	VV	116	2032	0.05%	0.023%
219	14.998	14.988	15.030	VV	129	2212	0.06%	0.026%
220	15.040	15.030	15.062	VV	90	1481	0.04%	0.017%
221	15.127	15.062	15.163	VV	185	6149	0.16%	0.071%
222	15.219	15.163	15.304	VV	273	10102	0.27%	0.117%
223	15.332	15.304	15.341	PV	105	1713	0.05%	0.020%
224	15.353	15.341	15.384	VV	91	1914	0.05%	0.022%
225	15.398	15.384	15.442	VV	122	3652	0.10%	0.042%
226	15.450	15.442	15.501	VV	112	2613	0.07%	0.030%
227	15.514	15.501	15.611	VV	155	9046	0.24%	0.105%
228	15.620	15.611	15.641	VV	177	1651	0.04%	0.019%
229	15.716	15.641	15.854	VV	1301	35323	0.94%	0.408%
230	15.895	15.854	15.938	VV	277	4231	0.11%	0.049%
231	15.952	15.938	15.984	VV	111	1820	0.05%	0.021%
232	16.026	15.984	16.143	VV	169	9095	0.24%	0.105%
233	16.198	16.143	16.231	PV	334	9091	0.24%	0.105%
234	16.261	16.231	16.294	VV	201	5609	0.15%	0.065%
235	16.358	16.294	16.376	VV	178	6362	0.17%	0.074%
236	16.387	16.376	16.421	VV	205	3168	0.08%	0.037%
237	16.446	16.421	16.471	VV	124	2465	0.07%	0.028%
238	16.570	16.471	16.608	VV	150	7959	0.21%	0.092%
239	16.665	16.608	16.764	VV	1124	26782	0.71%	0.310%
240	16.778	16.764	16.798	VV	89	581	0.02%	0.007%
241	17.116	16.798	17.151	PV	414	9331	0.25%	0.108%
242	17.222	17.151	17.278	VV	130	3980	0.11%	0.046%
243	17.549	17.278	17.638	PV	1197	38919	1.04%	0.450%
244	17.830	17.638	17.884	PV	189	10358	0.28%	0.120%
245	17.973	17.884	18.051	PV	730	16770	0.45%	0.194%
246	18.162	18.051	18.175	VV	87	2958	0.08%	0.034%

rteres

247	18.382	18.175	18.448	PV	1127	31337	0.83%	0.362%
248	18.635	18.448	18.658	VV	181	8949	0.24%	0.103%
249	18.778	18.658	18.828	PV	590	13798	0.37%	0.160%
250	18.968	18.828	18.984	VV	174	10763	0.29%	0.124%
251	19.165	18.984	19.238	VV	1187	47851	1.27%	0.553%
252	19.458	19.238	19.512	VV	2177	150928	4.02%	1.745%
253	19.540	19.512	19.638	VV	1798	84947	2.26%	0.982%
254	19.904	19.638	19.937	VV	1888	179134	4.77%	2.071%
255	20.265	19.937	20.284	VV	1911	326559	8.69%	3.775%
256	20.617	20.284	20.651	VV	3315	519358	13.83%	6.004%
257	20.938	20.651	20.988	VV	2436	512445	13.64%	5.924%
258	21.024	20.988	21.044	VV	2268	76186	2.03%	0.881%
259	21.469	21.044	21.521	VV	2161	543053	14.46%	6.277%
260	21.539	21.521	21.586	VV	1571	57085	1.52%	0.660%
261	21.633	21.586	21.684	VV	1386	77526	2.06%	0.896%
262	21.736	21.684	21.791	VV	1178	72098	1.92%	0.833%
263	21.801	21.791	21.917	VV	987	60624	1.61%	0.701%
264	21.979	21.917	22.033	VV	617	35877	0.96%	0.415%
265	22.104	22.033	22.127	VV	233	17577	0.47%	0.203%
266	22.151	22.127	22.205	VV	174	5616	0.15%	0.065%

Sum of corrected areas: 8650875

Aliphatic EPH 021125.M Fri Feb 28 01:15:22 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	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
FD049123.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		10.5	J	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16		14.4	J	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21		48.3	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36		92.7		25.2	80.0	ug/l
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		53.9		40 - 140	108%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		56.1		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		48.3		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:	Q1421-08	Acq On:	27 Feb 2025 15:17
Client Sample ID:	P001-CLAY-CF01-02	Operator:	YP/AJ
Data file:	FD049123.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	836382	5.26	200	ug/ml
Aromatic C12-C16	5.795	8.397	1159488	7.205	300	ug/ml
Aromatic C16-C21	8.398	12.661	3699941	24.126	500	ug/ml
Aromatic C21-C36	12.662	18.071	6631344	46.336	800	ug/ml
Aromatic EPH	4.076	18.071	12327155	82.926		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	7707992	53.86		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4931798	56.1		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	7809827	48.28		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049123.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 15:17
Operator : YP/AJ
Sample : Q1421-08
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Feb 28 01:28:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	7707992	53.861 ug/ml
Spiked Amount 50.000		Recovery = 107.72%	
6) S 2-Flurobiphenyl (SURR)	8.202	4931798	56.099 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.20%	
11) S ortho-Terphenyl (SURR)	11.237	7809827	48.276 ug/ml
Spiked Amount 50.000		Recovery = 96.55%	
Target Compounds			

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

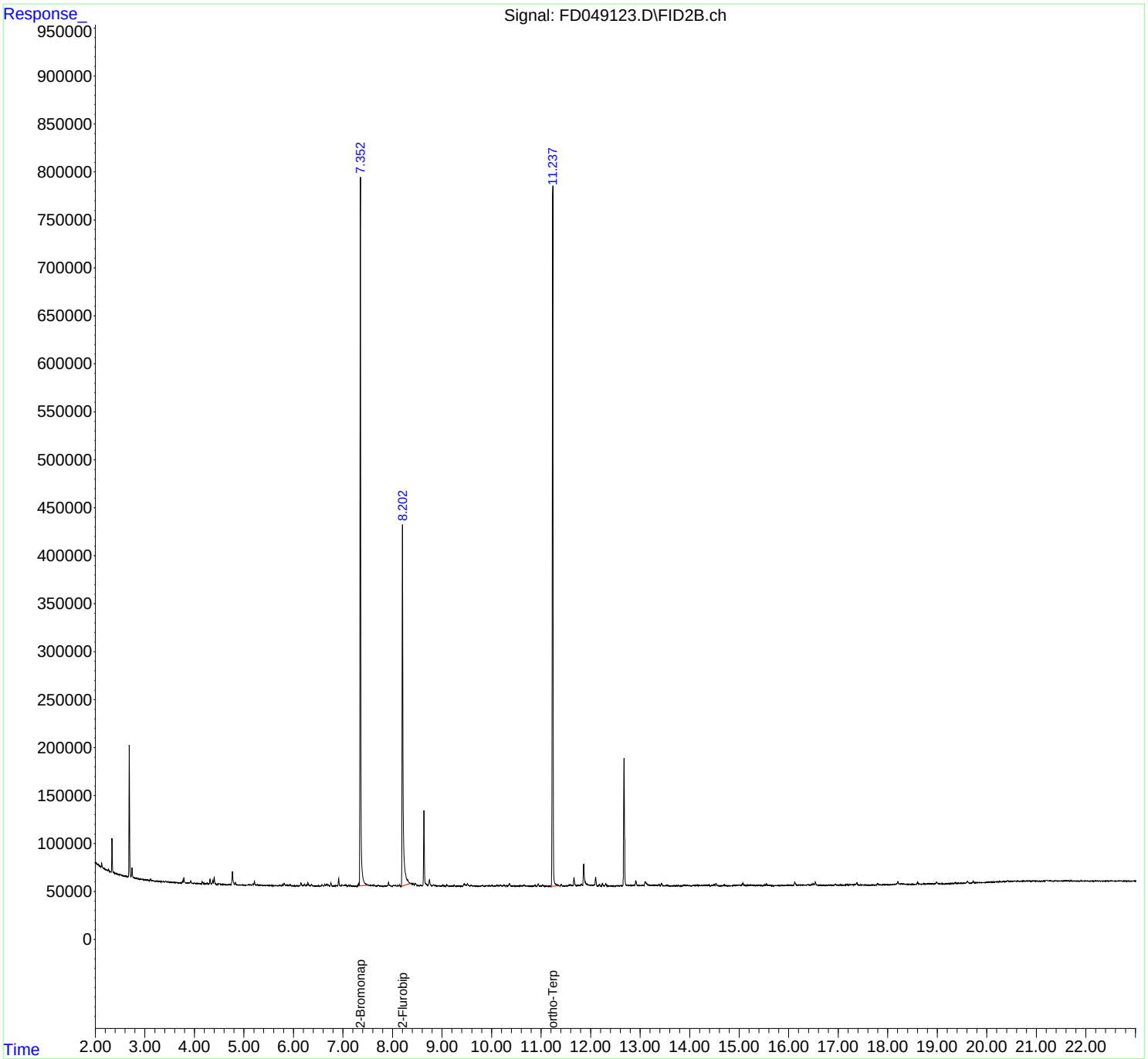
Quantitation Report (QT Reviewed)

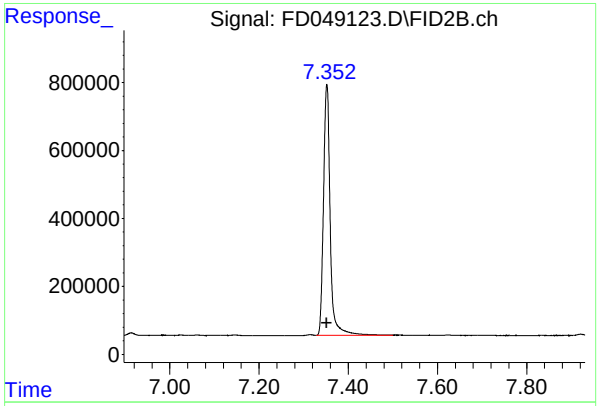
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049123.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 15:17
Operator : YP/AJ
Sample : Q1421-08
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-02

Integration File: autoint1.e
Quant Time: Feb 28 01:28:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

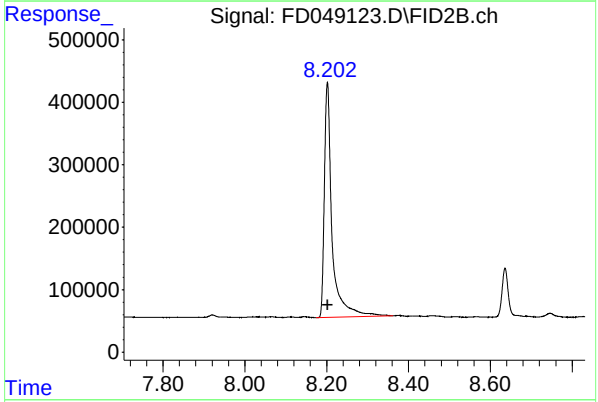




#4 2-Bromonaphthalene (SURR)

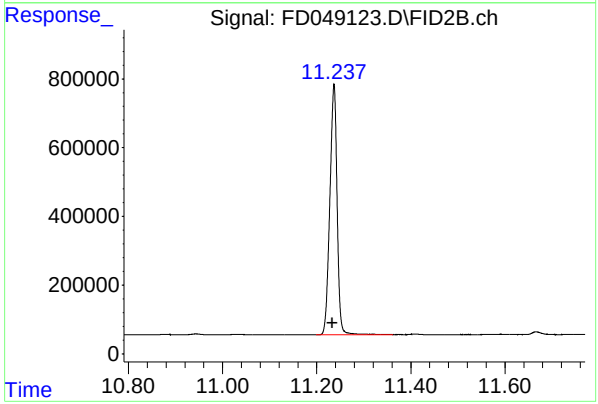
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 7707992
Conc: 53.86 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4931798
Conc: 56.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.004 min
Response: 7809827
Conc: 48.28 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049123.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 15:17
Sample : Q1421-08
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.059	4.042	4.092	PH	836	18891	0.24%	0.056%
2	4.094	4.092	4.098	VV	563	1948	0.02%	0.006%
3	4.105	4.098	4.120	VV	740	7165	0.09%	0.021%
4	4.132	4.120	4.140	VV	532	5717	0.07%	0.017%
5	4.160	4.140	4.238	VV	2658	58527	0.75%	0.175%
6	4.261	4.238	4.289	VV	1311	23659	0.30%	0.071%
7	4.315	4.289	4.349	VV	5422	66372	0.85%	0.198%
8	4.370	4.349	4.383	VV	4507	48323	0.62%	0.144%
9	4.399	4.383	4.452	VV	7687	95115	1.22%	0.284%
10	4.456	4.452	4.462	VV	391	2343	0.03%	0.007%
11	4.487	4.462	4.496	VV	828	11863	0.15%	0.035%
12	4.511	4.496	4.531	VV	1049	15750	0.20%	0.047%
13	4.537	4.531	4.551	VV	502	4489	0.06%	0.013%
14	4.556	4.551	4.567	VV	333	2126	0.03%	0.006%
15	4.582	4.567	4.620	VV	579	10893	0.14%	0.033%
16	4.627	4.620	4.634	VV	236	1087	0.01%	0.003%
17	4.661	4.644	4.671	VV	293	2745	0.04%	0.008%
18	4.690	4.671	4.720	VV	824	11787	0.15%	0.035%
19	4.768	4.720	4.810	VV	14070	200668	2.57%	0.599%
20	4.827	4.810	4.868	VV	2850	36387	0.47%	0.109%
21	4.885	4.879	4.897	VV	224	1424	0.02%	0.004%
22	4.907	4.897	4.915	VV	292	1683	0.02%	0.005%
23	4.965	4.915	5.024	PV	587	15915	0.20%	0.048%
24	5.044	5.024	5.072	VV	265	5456	0.07%	0.016%
25	5.103	5.072	5.125	VV	732	19616	0.25%	0.059%
26	5.131	5.125	5.162	VV	797	13882	0.18%	0.041%
27	5.183	5.162	5.196	VV	1827	23389	0.30%	0.070%
28	5.212	5.196	5.247	VV	4294	53464	0.68%	0.160%
29	5.271	5.247	5.322	VV	1245	26063	0.33%	0.078%
30	5.336	5.322	5.369	VV	621	12075	0.15%	0.036%
31	5.372	5.369	5.389	VV	385	2562	0.03%	0.008%
32	5.413	5.403	5.419	VV	337	2066	0.03%	0.006%
33	5.430	5.419	5.445	VV	253	3430	0.04%	0.010%
34	5.449	5.445	5.453	VV	290	1175	0.02%	0.004%
35	5.466	5.453	5.510	VV	563	10635	0.14%	0.032%
36	5.515	5.510	5.520	PV	268	1172	0.01%	0.003%

rteres

37	5.525	5.520	5.538	VV	357	1892	0.02%	0.006%
38	5.567	5.561	5.572	VV	195	1022	0.01%	0.003%
39	5.591	5.583	5.599	VV	214	1405	0.02%	0.004%
40	5.607	5.599	5.614	PV	302	1413	0.02%	0.004%
41	5.634	5.614	5.653	VV	277	3304	0.04%	0.010%
42	5.661	5.653	5.698	VV	232	3955	0.05%	0.012%
43	5.733	5.698	5.751	VV	463	8575	0.11%	0.026%
44	5.770	5.751	5.792	VV	1093	13845	0.18%	0.041%
45	5.812	5.792	5.841	VV	2859	41506	0.53%	0.124%
46	5.845	5.841	5.852	VV	648	4036	0.05%	0.012%
47	5.871	5.852	5.905	VV	1057	19929	0.25%	0.060%
48	5.935	5.905	5.973	VV	1342	26289	0.34%	0.079%
49	5.982	5.973	6.003	VV	392	3976	0.05%	0.012%
50	6.011	6.003	6.027	VV	347	2760	0.04%	0.008%
51	6.033	6.027	6.052	PV	301	2471	0.03%	0.007%
52	6.065	6.052	6.102	VV	352	3926	0.05%	0.012%
53	6.111	6.102	6.122	PV	272	1573	0.02%	0.005%
54	6.152	6.122	6.199	VV	3544	56339	0.72%	0.168%
55	6.223	6.199	6.242	VV	2270	25291	0.32%	0.076%
56	6.263	6.242	6.275	VV	1274	15436	0.20%	0.046%
57	6.293	6.275	6.314	VV	3431	42875	0.55%	0.128%
58	6.319	6.314	6.345	VV	963	12713	0.16%	0.038%
59	6.366	6.345	6.400	VV	2021	26527	0.34%	0.079%
60	6.408	6.400	6.420	VV	302	2305	0.03%	0.007%
61	6.427	6.420	6.445	VV	331	2109	0.03%	0.006%
62	6.452	6.445	6.463	VV	190	1546	0.02%	0.005%
63	6.467	6.463	6.479	VV	254	1400	0.02%	0.004%
64	6.507	6.479	6.533	VV	454	6204	0.08%	0.019%
65	6.555	6.533	6.564	VV	307	2624	0.03%	0.008%
66	6.579	6.564	6.615	VV	1944	26230	0.34%	0.078%
67	6.633	6.615	6.650	VV	1771	26860	0.34%	0.080%
68	6.679	6.650	6.691	VV	2334	41258	0.53%	0.123%
69	6.703	6.691	6.730	VV	1735	22605	0.29%	0.067%
70	6.757	6.730	6.781	VV	3650	47023	0.60%	0.140%
71	6.785	6.781	6.809	VV	332	3681	0.05%	0.011%
72	6.817	6.809	6.822	VV	286	1613	0.02%	0.005%
73	6.857	6.822	6.892	VV	947	20873	0.27%	0.062%
74	6.914	6.892	6.945	VV	8050	94097	1.20%	0.281%
75	6.985	6.945	7.008	VV	1382	32247	0.41%	0.096%
76	7.025	7.008	7.039	VV	1520	19784	0.25%	0.059%
77	7.062	7.039	7.079	VV	1740	27601	0.35%	0.082%
78	7.115	7.079	7.131	VV	1276	24775	0.32%	0.074%
79	7.146	7.131	7.189	VV	1772	24293	0.31%	0.073%
80	7.206	7.189	7.221	VV	440	5489	0.07%	0.016%
81	7.227	7.221	7.237	VV	225	1530	0.02%	0.005%
82	7.248	7.237	7.252	VV	273	1717	0.02%	0.005%
83	7.262	7.252	7.285	VV	385	4307	0.06%	0.013%
84	7.315	7.285	7.328	PV	2632	30096	0.38%	0.090%
85	7.352	7.328	7.504	VV	739963	7817703	100.00%	23.344%
86	7.507	7.504	7.511	VV	1549	6335	0.08%	0.019%
87	7.517	7.511	7.564	VV	1662	37799	0.48%	0.113%
88	7.582	7.564	7.607	VV	1397	25529	0.33%	0.076%
89	7.623	7.607	7.645	VV	2107	27887	0.36%	0.083%

rteres

90	7.650	7.645	7.667	VV	691	7838	0.10%	0.023%
91	7.682	7.667	7.695	VV	764	11005	0.14%	0.033%
92	7.711	7.695	7.737	VV	926	18761	0.24%	0.056%
93	7.742	7.737	7.747	VV	551	2732	0.03%	0.008%
94	7.758	7.747	7.771	VV	566	6074	0.08%	0.018%
95	7.777	7.771	7.801	VV	524	6834	0.09%	0.020%
96	7.805	7.801	7.809	VV	351	1490	0.02%	0.004%
97	7.812	7.809	7.816	VV	338	1206	0.02%	0.004%
98	7.819	7.816	7.824	VV	281	1406	0.02%	0.004%
99	7.836	7.824	7.849	VV	666	7928	0.10%	0.024%
100	7.870	7.849	7.879	VV	635	9202	0.12%	0.027%
101	7.887	7.879	7.901	VV	663	7837	0.10%	0.023%
102	7.921	7.901	7.992	VV	4299	71955	0.92%	0.215%
103	8.018	7.992	8.025	VV	1169	15997	0.20%	0.048%
104	8.031	8.025	8.051	VV	1198	15706	0.20%	0.047%
105	8.066	8.051	8.092	VV	1355	20116	0.26%	0.060%
106	8.113	8.092	8.128	VV	1217	14472	0.19%	0.043%
107	8.147	8.128	8.174	VV	1362	18608	0.24%	0.056%
108	8.202	8.174	8.361	VV	377232	5105520	65.31%	15.246%
109	8.376	8.361	8.397	VV	3472	64857	0.83%	0.194%
110	8.410	8.397	8.440	VV	2520	60530	0.77%	0.181%
111	8.460	8.440	8.499	VV	3238	76265	0.98%	0.228%
112	8.516	8.499	8.544	VV	1607	29617	0.38%	0.088%
113	8.567	8.544	8.597	VV	1441	32980	0.42%	0.098%
114	8.599	8.597	8.604	VV	771	3207	0.04%	0.010%
115	8.636	8.604	8.685	VV	79559	874017	11.18%	2.610%
116	8.690	8.685	8.715	VV	2234	29647	0.38%	0.089%
117	8.746	8.715	8.806	VV	7025	135017	1.73%	0.403%
118	8.827	8.806	8.854	VV	1768	34148	0.44%	0.102%
119	8.869	8.854	8.894	VV	1292	22112	0.28%	0.066%
120	8.900	8.894	8.906	VV	489	3215	0.04%	0.010%
121	8.945	8.906	8.984	VV	844	29302	0.37%	0.087%
122	9.020	8.984	9.034	VV	1183	23775	0.30%	0.071%
123	9.041	9.034	9.069	VV	1040	13514	0.17%	0.040%
124	9.095	9.069	9.129	VV	1910	31470	0.40%	0.094%
125	9.133	9.129	9.143	VV	473	3057	0.04%	0.009%
126	9.148	9.143	9.154	VV	341	1917	0.02%	0.006%
127	9.202	9.154	9.224	VV	701	19763	0.25%	0.059%
128	9.244	9.224	9.289	VV	1268	21042	0.27%	0.063%
129	9.303	9.289	9.320	VV	695	9237	0.12%	0.028%
130	9.321	9.320	9.326	VV	574	1335	0.02%	0.004%
131	9.330	9.326	9.337	VV	595	2878	0.04%	0.009%
132	9.343	9.337	9.377	VV	582	9893	0.13%	0.030%
133	9.389	9.377	9.410	VV	617	8125	0.10%	0.024%
134	9.443	9.410	9.495	VV	2574	75133	0.96%	0.224%
135	9.514	9.495	9.555	VV	3124	57601	0.74%	0.172%
136	9.560	9.555	9.567	VV	781	5240	0.07%	0.016%
137	9.587	9.567	9.637	VV	1180	35971	0.46%	0.107%
138	9.648	9.637	9.669	VV	801	11650	0.15%	0.035%
139	9.678	9.669	9.701	VV	564	8199	0.10%	0.024%
140	9.724	9.701	9.730	VV	319	3417	0.04%	0.010%
141	9.759	9.730	9.768	VV	439	7425	0.09%	0.022%

142	9.784	9.768	9.798	VV	678	9546	0.12%	0.029%
143	9.823	9.798	9.849	VV	1197	20283	0.26%	0.061%
144	9.856	9.849	9.862	VV	431	2861	0.04%	0.009%
145	9.904	9.862	9.920	VV	930	22578	0.29%	0.067%
146	9.936	9.920	9.958	VV	861	15707	0.20%	0.047%
147	9.974	9.958	9.999	VV	793	16138	0.21%	0.048%
148	10.012	9.999	10.037	VV	1616	19453	0.25%	0.058%
149	10.043	10.037	10.059	VV	432	5131	0.07%	0.015%
150	10.064	10.059	10.074	VV	488	3707	0.05%	0.011%
151	10.102	10.074	10.119	VV	1085	20075	0.26%	0.060%
152	10.141	10.119	10.159	VV	1068	17690	0.23%	0.053%
153	10.186	10.159	10.205	VV	1636	30741	0.39%	0.092%
154	10.216	10.205	10.229	VV	857	10408	0.13%	0.031%
155	10.255	10.229	10.277	VV	1649	30553	0.39%	0.091%
156	10.292	10.277	10.311	VV	1050	14198	0.18%	0.042%
157	10.322	10.311	10.340	VV	924	13065	0.17%	0.039%
158	10.365	10.340	10.395	VV	3224	51321	0.66%	0.153%
159	10.410	10.395	10.419	VV	667	7886	0.10%	0.024%
160	10.422	10.419	10.427	VV	519	2378	0.03%	0.007%
161	10.452	10.427	10.459	VV	723	11316	0.14%	0.034%
162	10.461	10.459	10.480	VV	786	6763	0.09%	0.020%
163	10.492	10.480	10.509	VV	632	7667	0.10%	0.023%
164	10.524	10.509	10.532	VV	573	6356	0.08%	0.019%
165	10.547	10.532	10.554	VV	551	5648	0.07%	0.017%
166	10.570	10.554	10.592	VV	741	11669	0.15%	0.035%
167	10.601	10.592	10.620	VV	661	8935	0.11%	0.027%
168	10.661	10.620	10.685	VV	1816	40020	0.51%	0.120%
169	10.699	10.685	10.737	VV	844	16322	0.21%	0.049%
170	10.750	10.737	10.795	VV	628	11064	0.14%	0.033%
171	10.799	10.795	10.804	VV	237	1128	0.01%	0.003%
172	10.821	10.804	10.842	VV	406	6598	0.08%	0.020%
173	10.849	10.842	10.854	VV	517	2800	0.04%	0.008%
174	10.878	10.854	10.905	VV	1652	24363	0.31%	0.073%
175	10.943	10.905	10.980	VV	2849	46801	0.60%	0.140%
176	10.984	10.980	10.990	VV	590	3040	0.04%	0.009%
177	10.994	10.990	11.008	VV	683	6203	0.08%	0.019%
178	11.031	11.008	11.117	VV	1472	40996	0.52%	0.122%
179	11.123	11.117	11.141	VV	341	3738	0.05%	0.011%
180	11.148	11.141	11.189	VV	393	7112	0.09%	0.021%
181	11.197	11.189	11.203	PV	226	1207	0.02%	0.004%
182	11.237	11.203	11.311	PV	729928	7814611	99.96%	23.335%
183	11.319	11.311	11.344	VV	1870	30200	0.39%	0.090%
184	11.351	11.344	11.363	VV	1101	11151	0.14%	0.033%
185	11.369	11.363	11.387	VV	912	12148	0.16%	0.036%
186	11.409	11.387	11.436	VV	2464	40611	0.52%	0.121%
187	11.456	11.436	11.482	VV	694	15778	0.20%	0.047%
188	11.520	11.482	11.536	VV	905	22752	0.29%	0.068%
189	11.570	11.536	11.579	VV	1593	28569	0.37%	0.085%
190	11.591	11.579	11.620	VV	1790	34211	0.44%	0.102%
191	11.625	11.620	11.637	VV	1136	10233	0.13%	0.031%
192	11.666	11.637	11.715	VV	9011	149932	1.92%	0.448%
193	11.739	11.715	11.749	VV	1395	22493	0.29%	0.067%
194	11.756	11.749	11.784	VV	1398	22577	0.29%	0.067%

195	11.816	11.784	11.842	VV	2605	59034	0.76%	0.176%
196	11.862	11.842	11.962	VV	23422	444864	5.69%	1.328%
197	11.970	11.962	12.002	VV	1740	37970	0.49%	0.113%
198	12.025	12.002	12.040	VV	1544	32082	0.41%	0.096%
199	12.046	12.040	12.054	VV	1310	10127	0.13%	0.030%
200	12.104	12.054	12.132	VV	9813	162911	2.08%	0.486%
201	12.179	12.132	12.214	VV	2430	53902	0.69%	0.161%
202	12.241	12.214	12.264	VV	3459	51691	0.66%	0.154%
203	12.269	12.264	12.279	VV	817	6750	0.09%	0.020%
204	12.306	12.279	12.340	VV	2644	53025	0.68%	0.158%
205	12.348	12.340	12.355	VV	672	5662	0.07%	0.017%
206	12.360	12.355	12.367	VV	713	4623	0.06%	0.014%
207	12.373	12.367	12.404	VV	676	14193	0.18%	0.042%
208	12.408	12.404	12.423	VV	654	6538	0.08%	0.020%
209	12.426	12.423	12.434	VV	530	3232	0.04%	0.010%
210	12.446	12.434	12.457	VV	593	7555	0.10%	0.023%
211	12.493	12.457	12.498	VV	727	12873	0.16%	0.038%
212	12.520	12.498	12.525	VV	876	12001	0.15%	0.036%
213	12.531	12.525	12.549	VV	782	10368	0.13%	0.031%
214	12.559	12.549	12.579	VV	803	12922	0.17%	0.039%
215	12.599	12.579	12.605	VV	985	12221	0.16%	0.036%
216	12.611	12.605	12.625	VV	1012	10476	0.13%	0.031%
217	12.636	12.625	12.645	VV	938	10102	0.13%	0.030%
218	12.677	12.645	12.723	VV	133761	1599174	20.46%	4.775%
219	12.737	12.723	12.780	VV	1731	44823	0.57%	0.134%
220	12.784	12.780	12.792	VV	1063	7184	0.09%	0.021%
221	12.804	12.792	12.821	VV	1095	18066	0.23%	0.054%
222	12.855	12.821	12.886	VV	1509	49427	0.63%	0.148%
223	12.914	12.886	12.952	VV	6036	110149	1.41%	0.329%
224	12.958	12.952	12.978	VV	1237	17673	0.23%	0.053%
225	12.989	12.978	13.020	VV	1215	26521	0.34%	0.079%
226	13.046	13.020	13.079	VV	1533	43387	0.55%	0.130%
227	13.101	13.079	13.162	VV	5067	153355	1.96%	0.458%
228	13.173	13.162	13.179	VV	1653	16255	0.21%	0.049%
229	13.184	13.179	13.220	VV	1647	34343	0.44%	0.103%
230	13.229	13.220	13.245	VV	1352	17980	0.23%	0.054%
231	13.250	13.245	13.254	VV	1274	6462	0.08%	0.019%
232	13.300	13.254	13.324	VV	1684	58197	0.74%	0.174%
233	13.332	13.324	13.350	VV	1312	18999	0.24%	0.057%
234	13.380	13.350	13.411	VV	2222	55280	0.71%	0.165%
235	13.433	13.411	13.467	VV	3594	63191	0.81%	0.189%
236	13.471	13.467	13.487	VV	926	10108	0.13%	0.030%
237	13.491	13.487	13.513	VV	933	12302	0.16%	0.037%
238	13.535	13.513	13.567	VV	1390	34223	0.44%	0.102%
239	13.574	13.567	13.586	VV	885	8980	0.11%	0.027%
240	13.594	13.586	13.616	VV	829	12690	0.16%	0.038%
241	13.624	13.616	13.629	VV	866	6017	0.08%	0.018%
242	13.655	13.629	13.679	VV	928	26310	0.34%	0.079%
243	13.687	13.679	13.712	VV	938	16663	0.21%	0.050%
244	13.725	13.712	13.750	VV	1006	18780	0.24%	0.056%
245	13.767	13.750	13.805	VV	1144	29594	0.38%	0.088%
246	13.823	13.805	13.848	VV	862	19290	0.25%	0.058%

rteres

247	13.891	13.848	13.945	VV	1688	70454	0.90%	0.210%
248	13.951	13.945	13.957	VV	1196	8246	0.11%	0.025%
249	13.961	13.957	13.965	VV	1052	4894	0.06%	0.015%
250	13.975	13.965	13.984	VV	1214	11729	0.15%	0.035%
251	13.991	13.984	14.013	VV	1122	18856	0.24%	0.056%
252	14.021	14.013	14.040	VV	1043	15726	0.20%	0.047%
253	14.067	14.040	14.092	VV	1235	32653	0.42%	0.098%
254	14.101	14.092	14.110	VV	1301	13292	0.17%	0.040%
255	14.121	14.110	14.140	VV	1313	21979	0.28%	0.066%
256	14.146	14.140	14.152	VV	1229	8220	0.11%	0.025%
257	14.163	14.152	14.188	VV	1294	25349	0.32%	0.076%
258	14.198	14.188	14.221	VV	1339	23084	0.30%	0.069%
259	14.251	14.221	14.256	VV	1338	24984	0.32%	0.075%
260	14.289	14.256	14.316	VV	1595	50419	0.64%	0.151%
261	14.333	14.316	14.374	VV	1752	47941	0.61%	0.143%
262	14.393	14.374	14.420	VV	2239	31752	0.41%	0.095%
263	14.447	14.420	14.464	VV	1154	28488	0.36%	0.085%
264	14.492	14.464	14.515	VV	2142	48551	0.62%	0.145%
265	14.533	14.515	14.571	VV	3330	63161	0.81%	0.189%
266	14.575	14.571	14.581	VV	1065	6113	0.08%	0.018%
267	14.592	14.581	14.607	VV	1028	15261	0.20%	0.046%
268	14.613	14.607	14.627	VV	1076	10965	0.14%	0.033%
269	14.631	14.627	14.635	VV	843	4095	0.05%	0.012%
270	14.643	14.635	14.657	VV	897	11112	0.14%	0.033%
271	14.699	14.657	14.749	VV	2038	65950	0.84%	0.197%
272	14.752	14.749	14.760	VV	1010	6970	0.09%	0.021%
273	14.764	14.760	14.777	VV	1031	9763	0.12%	0.029%
274	14.785	14.777	14.797	VV	1199	11730	0.15%	0.035%
275	14.803	14.797	14.812	VV	1105	8773	0.11%	0.026%
276	14.831	14.812	14.855	VV	1087	24952	0.32%	0.075%
277	14.867	14.855	14.877	VV	1209	15006	0.19%	0.045%
278	14.881	14.877	14.900	VV	1233	15252	0.20%	0.046%
279	14.909	14.900	14.915	VV	1230	10593	0.14%	0.032%
280	14.959	14.915	14.971	VV	1579	44673	0.57%	0.133%
281	15.001	14.971	15.030	VV	1840	53695	0.69%	0.160%
282	15.074	15.030	15.135	VV	3557	117688	1.51%	0.351%
283	15.152	15.135	15.165	VV	1411	23905	0.31%	0.071%
284	15.187	15.165	15.210	VV	1632	38418	0.49%	0.115%
285	15.214	15.210	15.220	VV	1373	7630	0.10%	0.023%
286	15.244	15.220	15.269	VV	1932	47431	0.61%	0.142%
287	15.278	15.269	15.306	VV	1490	29475	0.38%	0.088%
288	15.313	15.306	15.319	VV	1251	8986	0.11%	0.027%
289	15.331	15.319	15.343	VV	1336	18937	0.24%	0.057%
290	15.355	15.343	15.362	VV	1373	15134	0.19%	0.045%
291	15.369	15.362	15.382	VV	1549	17137	0.22%	0.051%
292	15.393	15.382	15.419	VV	1710	33099	0.42%	0.099%
293	15.435	15.419	15.459	VV	1487	30262	0.39%	0.090%
294	15.480	15.459	15.486	VV	1138	17439	0.22%	0.052%
295	15.512	15.486	15.526	VV	1983	35724	0.46%	0.107%
296	15.549	15.526	15.575	VV	2963	60656	0.78%	0.181%
297	15.588	15.575	15.637	VV	1643	51584	0.66%	0.154%
298	15.642	15.637	15.682	VV	1271	28923	0.37%	0.086%
299	15.699	15.682	15.711	VV	1176	18735	0.24%	0.056%

rteres

300	15.724	15.711	15.730	VV	1251	13380	0.17%	0.040%
301	15.738	15.730	15.767	VV	1244	24228	0.31%	0.072%
302	15.786	15.767	15.802	VV	1322	24777	0.32%	0.074%
303	15.808	15.802	15.827	VV	1147	16639	0.21%	0.050%
304	15.832	15.827	15.854	VV	1234	18518	0.24%	0.055%
305	15.860	15.854	15.867	VV	1344	9692	0.12%	0.029%
306	15.870	15.867	15.880	VV	1256	9343	0.12%	0.028%
307	15.885	15.880	15.892	VV	1206	7797	0.10%	0.023%
308	15.908	15.892	15.929	VV	1259	26049	0.33%	0.078%
309	15.934	15.929	15.939	VV	1163	7428	0.10%	0.022%
310	15.948	15.939	15.958	VV	1187	12669	0.16%	0.038%
311	15.990	15.958	16.015	VV	1767	49242	0.63%	0.147%
312	16.035	16.015	16.054	VV	1782	36146	0.46%	0.108%
313	16.062	16.054	16.080	VV	1310	20622	0.26%	0.062%
314	16.120	16.080	16.177	VV	4944	144325	1.85%	0.431%
315	16.182	16.177	16.186	VV	1689	8627	0.11%	0.026%
316	16.197	16.186	16.216	VV	1743	30390	0.39%	0.091%
317	16.230	16.216	16.255	VV	1800	39728	0.51%	0.119%
318	16.275	16.255	16.290	VV	1846	35750	0.46%	0.107%
319	16.300	16.290	16.309	VV	1841	20146	0.26%	0.060%
320	16.314	16.309	16.327	VV	1867	19952	0.26%	0.060%
321	16.332	16.327	16.348	VV	1938	22288	0.29%	0.067%
322	16.354	16.348	16.359	VV	1797	11407	0.15%	0.034%
323	16.384	16.359	16.394	VV	2061	40550	0.52%	0.121%
324	16.401	16.394	16.430	VV	2266	42056	0.54%	0.126%
325	16.434	16.430	16.441	VV	1742	11020	0.14%	0.033%
326	16.462	16.441	16.473	VV	2294	39060	0.50%	0.117%
327	16.493	16.473	16.513	VV	3383	64592	0.83%	0.193%
328	16.538	16.513	16.567	VV	4764	96181	1.23%	0.287%
329	16.572	16.567	16.584	VV	1846	18533	0.24%	0.055%
330	16.588	16.584	16.613	VV	1840	29569	0.38%	0.088%
331	16.618	16.613	16.637	VV	1677	21645	0.28%	0.065%
332	16.639	16.637	16.648	VV	1564	9525	0.12%	0.028%
333	16.652	16.648	16.655	VV	1469	6238	0.08%	0.019%
334	16.659	16.655	16.693	VV	1526	33210	0.42%	0.099%
335	16.700	16.693	16.707	VV	1498	11967	0.15%	0.036%
336	16.714	16.707	16.729	VV	1479	18183	0.23%	0.054%
337	16.731	16.729	16.744	VV	1464	12305	0.16%	0.037%
338	16.761	16.744	16.778	VV	1547	29121	0.37%	0.087%
339	16.790	16.778	16.795	VV	1553	15431	0.20%	0.046%
340	16.811	16.795	16.822	VV	1878	27722	0.35%	0.083%
341	16.826	16.822	16.874	VV	1751	49690	0.64%	0.148%
342	16.881	16.874	16.901	VV	1611	24961	0.32%	0.075%
343	16.946	16.901	17.010	VV	2824	123108	1.57%	0.368%
344	17.014	17.010	17.019	VV	1668	9151	0.12%	0.027%
345	17.039	17.019	17.049	VV	1923	31087	0.40%	0.093%
346	17.055	17.049	17.075	VV	1856	28077	0.36%	0.084%
347	17.082	17.075	17.087	VV	1784	12572	0.16%	0.038%
348	17.090	17.087	17.097	VV	1718	9225	0.12%	0.028%
349	17.101	17.097	17.103	VV	1653	6266	0.08%	0.019%
350	17.110	17.103	17.120	VV	1763	16882	0.22%	0.050%
351	17.125	17.120	17.135	VV	1717	14837	0.19%	0.044%

rteres

352	17.166	17.135	17.211	VV	2257	91454	1.17%	0.273%
353	17.231	17.211	17.255	VV	2328	55700	0.71%	0.166%
354	17.269	17.255	17.277	VV	2102	26402	0.34%	0.079%
355	17.297	17.277	17.317	VV	2205	48358	0.62%	0.144%
356	17.349	17.317	17.359	VV	2615	58402	0.75%	0.174%
357	17.376	17.359	17.432	VV	4304	114941	1.47%	0.343%
358	17.449	17.432	17.463	VV	1958	34814	0.45%	0.104%
359	17.480	17.463	17.494	VV	2124	35918	0.46%	0.107%
360	17.495	17.494	17.508	VV	1982	16412	0.21%	0.049%
361	17.541	17.508	17.550	VV	2073	49676	0.64%	0.148%
362	17.555	17.550	17.563	VV	1957	13887	0.18%	0.041%
363	17.575	17.563	17.607	VV	1955	47658	0.61%	0.142%
364	17.612	17.607	17.632	VV	1794	26340	0.34%	0.079%
365	17.659	17.632	17.679	VV	2009	52538	0.67%	0.157%
366	17.682	17.679	17.723	VV	1883	46910	0.60%	0.140%
367	17.739	17.723	17.759	VV	1969	40380	0.52%	0.121%
368	17.796	17.759	17.827	VV	3662	103231	1.32%	0.308%
369	17.832	17.827	17.854	VV	2144	33458	0.43%	0.100%
370	17.859	17.854	17.864	VV	2086	12248	0.16%	0.037%
371	17.869	17.864	17.880	VV	2060	18683	0.24%	0.056%
372	17.926	17.880	17.935	VV	2227	68439	0.88%	0.204%
373	17.939	17.935	17.954	VV	2136	22783	0.29%	0.068%
374	17.966	17.954	17.977	VV	2229	29176	0.37%	0.087%
375	17.991	17.977	18.014	VV	2258	46255	0.59%	0.138%
376	18.024	18.014	18.035	VV	2150	27207	0.35%	0.081%
377	18.057	18.035	18.071	VV	2311	46900	0.60%	0.140%
378	18.204	18.071	18.252	VV	5413	321612	4.11%	0.960%
379	18.267	18.252	18.300	VBA	2937	82931	1.06%	0.248%

Sum of corrected areas: 33488416

Aromatic EPH 021125.M Fri Feb 28 02:10:08 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78.4
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
02/27/25 13:10	02/28/25 20:09	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.48	U	1	0.48	1.27	mg/kg	FC068336.D
Aliphatic C12-C16	Aliphatic C12-C16	0.55	J	1	0.31	0.85	mg/kg	FC068336.D
Aliphatic C16-C21	Aliphatic C16-C21	0.49	J	1	0.38	1.27	mg/kg	FC068336.D
Aliphatic C21-C28	Aliphatic C21-C28	1.02	U	1	1.02	1.70	mg/kg	FC068336.D
Aliphatic C28-C40	Aliphatic C28-C40	2.37	J	1	2.29	2.55	mg/kg	FC068336.D
Aromatic C10-C12	Aromatic C10-C12	0.38	U	1	0.38	0.85	mg/kg	FD049144.D
Aromatic C12-C16	Aromatic C12-C16	0.45	J	1	0.43	1.27	mg/kg	FD049144.D
Aromatic C16-C21	Aromatic C16-C21	1.67	J	1	1.22	2.12	mg/kg	FD049144.D
Aromatic C21-C36	Aromatic C21-C36	2.55	U	1	2.55	3.40	mg/kg	FD049144.D
Total AliphaticEPH	Total AliphaticEPH	4.48	U		4.48	7.64	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.59	U		4.59	7.64	mg/kg	
Total EPH	Total EPH	9.07	U		9.07	15.3	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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78.4
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
FC068336.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.48	U	0.48	1.27	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.55	J	0.31	0.85	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.49	J	0.38	1.27	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.02	U	1.02	1.70	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.37	J	2.29	2.55	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.5		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-09	Acq On:	28 Feb 2025 20:09
Client Sample ID:	P001-CLAY-CF02-01	Operator:	YP/AJ
Data file:	FC068336.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	3.104	6.369	543312	3.852	300	ug/ml
Aliphatic C12-C16	6.370	9.754	876350	6.413	200	ug/ml
Aliphatic C16-C21	9.755	13.107	762371	5.792	300	ug/ml
Aliphatic C21-C28	13.108	16.761	744063	6.065	400	ug/ml
Aliphatic C28-C40	16.762	21.565	2863890	27.846	600	ug/ml
Aliphatic EPH	3.104	21.565	5789986	49.968		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.838	12.838	3429125	30.49		ug/ml
Aliphatic C9-C28	3.104	16.761	2926096	22.122	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068336.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 20:09
Operator : YP/AJ
Sample : Q1421-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Mar 05 05:25:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.838	3429125	30.488 ug/ml
Spiked Amount 50.000		Recovery = 60.98%	
Target Compounds			

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

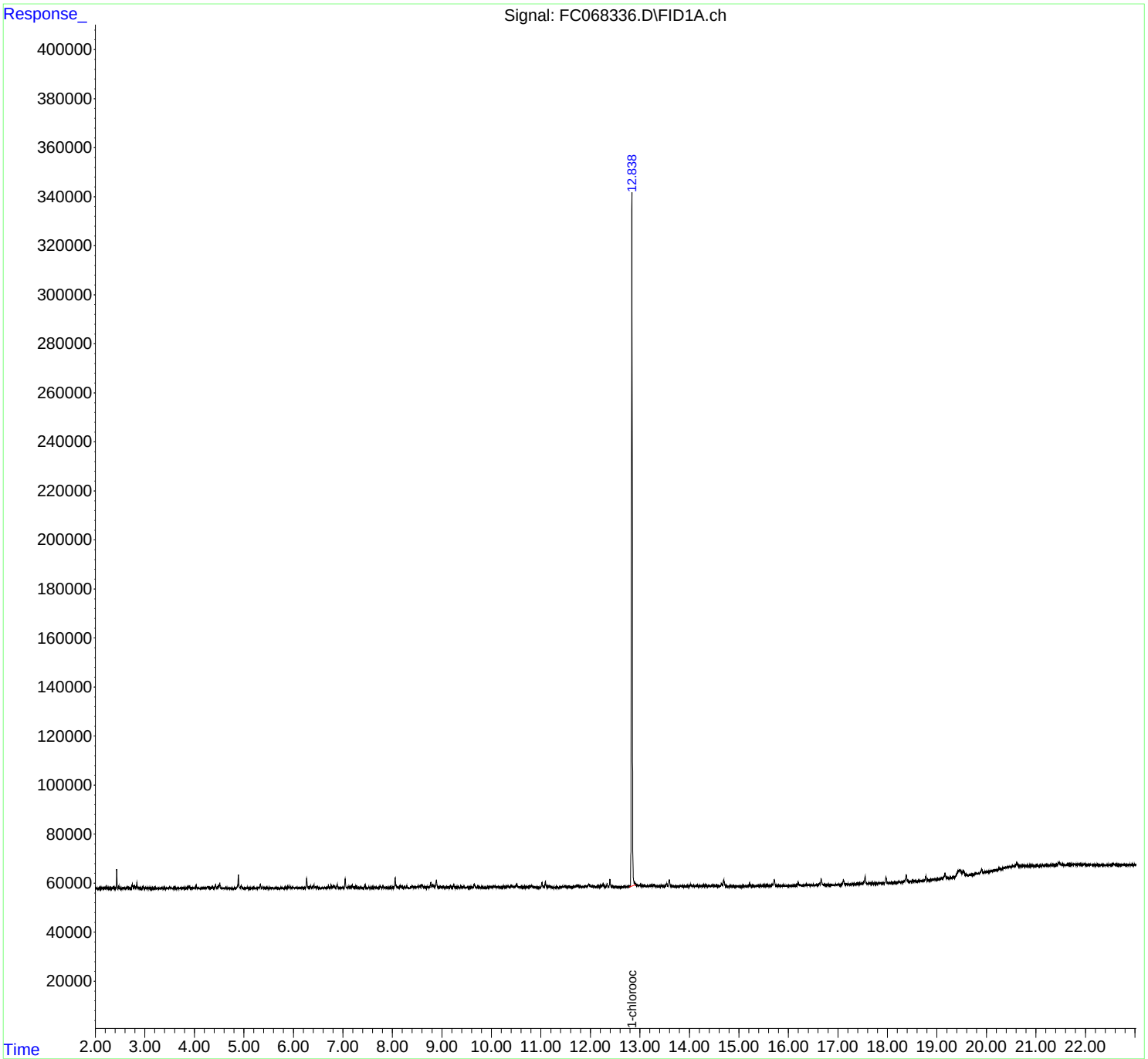
Quantitation Report (QT Reviewed)

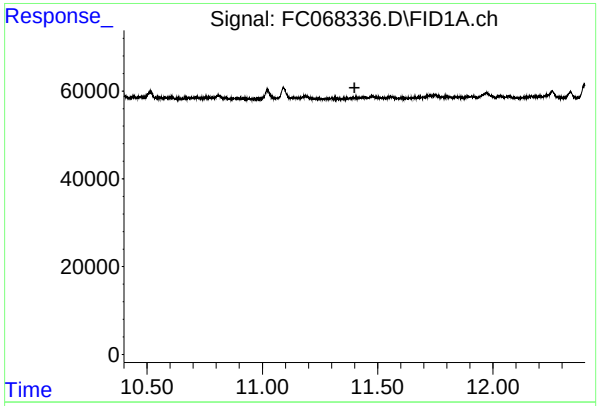
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068336.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 20:09
Operator : YP/AJ
Sample : Q1421-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Mar 05 05:25:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

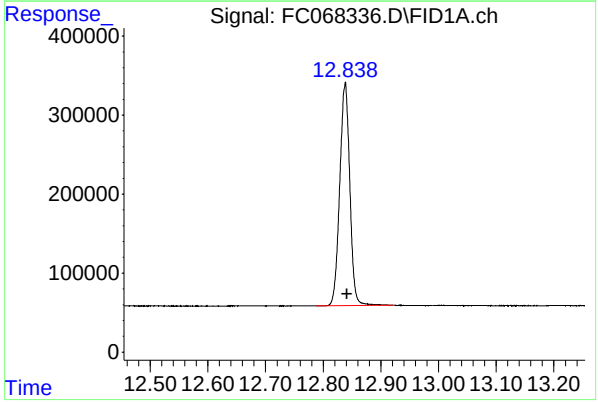




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF02-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.838 min
Delta R.T.: -0.004 min
Response: 3429125
Conc: 30.49 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068336.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 20:09
Sample : Q1421-09
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.359	2.304	2.401	BV	475	3411	0.10%	0.035%
2	2.432	2.401	2.455	PV	7767	59409	1.69%	0.610%
3	2.472	2.455	2.538	VV	1005	11614	0.33%	0.119%
4	2.561	2.538	2.573	VV	74	1278	0.04%	0.013%
5	2.591	2.573	2.609	VV	292	3007	0.09%	0.031%
6	2.655	2.609	2.700	VV	419	8261	0.24%	0.085%
7	2.744	2.700	2.774	VV	1499	25758	0.73%	0.264%
8	2.788	2.774	2.817	VV	1401	14955	0.43%	0.154%
9	2.838	2.817	2.896	VV	2559	27602	0.79%	0.283%
10	2.918	2.896	2.937	VV	225	3722	0.11%	0.038%
11	2.961	2.937	3.048	VV	1001	16461	0.47%	0.169%
12	3.087	3.048	3.154	VV	222	6097	0.17%	0.063%
13	3.163	3.154	3.174	VV	72	904	0.03%	0.009%
14	3.184	3.174	3.194	VV	120	895	0.03%	0.009%
15	3.207	3.194	3.264	VV	391	6009	0.17%	0.062%
16	3.271	3.264	3.283	VV	83	997	0.03%	0.010%
17	3.298	3.283	3.311	VV	126	1380	0.04%	0.014%
18	3.327	3.311	3.339	VV	139	1855	0.05%	0.019%
19	3.350	3.339	3.371	VV	162	1752	0.05%	0.018%
20	3.407	3.371	3.429	VV	144	2926	0.08%	0.030%
21	3.499	3.429	3.511	VV	683	10090	0.29%	0.104%
22	3.525	3.511	3.555	VV	425	5294	0.15%	0.054%
23	3.573	3.555	3.597	VV	216	3867	0.11%	0.040%
24	3.614	3.597	3.624	VV	157	1583	0.05%	0.016%
25	3.700	3.624	3.759	VV	203	9723	0.28%	0.100%
26	3.778	3.759	3.824	VV	208	4882	0.14%	0.050%
27	3.836	3.824	3.845	VV	153	1476	0.04%	0.015%
28	3.865	3.845	3.877	VV	552	5690	0.16%	0.058%
29	3.893	3.877	3.942	VV	1258	16398	0.47%	0.168%
30	3.960	3.942	3.996	VV	237	5391	0.15%	0.055%
31	4.039	3.996	4.070	VV	1139	18318	0.52%	0.188%
32	4.084	4.070	4.098	VV	219	2451	0.07%	0.025%
33	4.132	4.098	4.140	VV	160	2872	0.08%	0.029%
34	4.160	4.140	4.171	VV	192	2768	0.08%	0.028%
35	4.195	4.171	4.244	VV	266	7242	0.21%	0.074%
36	4.263	4.244	4.319	VV	827	16873	0.48%	0.173%

rteres

37	4.334	4.319	4.346	VV	214	2855	0.08%	0.029%
38	4.372	4.346	4.395	VV	519	9275	0.26%	0.095%
39	4.428	4.395	4.451	VV	1746	21633	0.62%	0.222%
40	4.459	4.451	4.467	VV	404	3339	0.10%	0.034%
41	4.484	4.467	4.497	VV	1363	15107	0.43%	0.155%
42	4.513	4.497	4.564	VV	2227	26294	0.75%	0.270%
43	4.630	4.564	4.671	VV	327	11108	0.32%	0.114%
44	4.702	4.671	4.738	VV	207	4763	0.14%	0.049%
45	4.759	4.738	4.785	VV	94	1283	0.04%	0.013%
46	4.811	4.785	4.838	VV	413	5976	0.17%	0.061%
47	4.889	4.838	4.928	VV	5708	73847	2.11%	0.758%
48	4.946	4.928	4.978	VV	1182	14202	0.40%	0.146%
49	4.987	4.978	5.024	VV	147	2137	0.06%	0.022%
50	5.032	5.024	5.040	PV	40	304	0.01%	0.003%
51	5.078	5.040	5.144	VV	326	8082	0.23%	0.083%
52	5.154	5.144	5.178	VV	162	2177	0.06%	0.022%
53	5.257	5.178	5.273	VV	293	7007	0.20%	0.072%
54	5.292	5.273	5.314	VV	537	7436	0.21%	0.076%
55	5.332	5.314	5.371	VV	1843	21922	0.63%	0.225%
56	5.387	5.371	5.408	VV	554	6533	0.19%	0.067%
57	5.470	5.408	5.490	VV	335	8713	0.25%	0.089%
58	5.506	5.490	5.529	VV	142	3109	0.09%	0.032%
59	5.536	5.529	5.561	VV	203	2567	0.07%	0.026%
60	5.581	5.561	5.614	VV	355	5283	0.15%	0.054%
61	5.638	5.614	5.650	VV	234	2875	0.08%	0.030%
62	5.663	5.650	5.681	VV	168	2278	0.06%	0.023%
63	5.729	5.681	5.767	VV	200	7106	0.20%	0.073%
64	5.792	5.767	5.804	VV	196	3042	0.09%	0.031%
65	5.846	5.804	5.868	VV	340	8129	0.23%	0.083%
66	5.887	5.868	5.904	VV	436	6405	0.18%	0.066%
67	5.929	5.904	5.955	VV	895	13373	0.38%	0.137%
68	5.990	5.955	6.029	VV	400	10205	0.29%	0.105%
69	6.063	6.029	6.144	VV	487	15282	0.44%	0.157%
70	6.171	6.144	6.218	VV	275	5510	0.16%	0.057%
71	6.269	6.218	6.331	VV	4086	60160	1.72%	0.618%
72	6.350	6.331	6.370	VV	996	12359	0.35%	0.127%
73	6.386	6.370	6.399	VV	582	6840	0.20%	0.070%
74	6.417	6.399	6.437	VV	1583	17644	0.50%	0.181%
75	6.449	6.437	6.469	VV	528	6586	0.19%	0.068%
76	6.489	6.469	6.534	VV	811	11747	0.33%	0.121%
77	6.539	6.534	6.573	VV	190	2526	0.07%	0.026%
78	6.585	6.573	6.616	VV	123	2513	0.07%	0.026%
79	6.628	6.616	6.650	VV	183	2826	0.08%	0.029%
80	6.660	6.650	6.684	VV	204	2210	0.06%	0.023%
81	6.708	6.684	6.735	VV	903	11111	0.32%	0.114%
82	6.760	6.735	6.794	VV	1141	19848	0.57%	0.204%
83	6.809	6.794	6.853	VV	968	20660	0.59%	0.212%
84	6.887	6.853	6.918	VV	1546	23840	0.68%	0.245%
85	6.924	6.918	6.948	VV	275	3197	0.09%	0.033%
86	6.993	6.948	7.013	VV	374	8101	0.23%	0.083%
87	7.047	7.013	7.080	VV	3853	45082	1.29%	0.463%
88	7.124	7.080	7.139	VV	522	11803	0.34%	0.121%
89	7.155	7.139	7.168	VV	666	7230	0.21%	0.074%

rteres

90	7.188	7.168	7.214	VV	1354	19948	0.57%	0.205%
91	7.249	7.214	7.265	VV	701	13439	0.38%	0.138%
92	7.279	7.265	7.329	VV	854	13228	0.38%	0.136%
93	7.337	7.329	7.383	VV	242	5414	0.15%	0.056%
94	7.394	7.383	7.415	VV	178	2480	0.07%	0.025%
95	7.448	7.415	7.486	VV	1511	19214	0.55%	0.197%
96	7.502	7.486	7.508	VV	140	1345	0.04%	0.014%
97	7.524	7.508	7.571	VV	344	7822	0.22%	0.080%
98	7.609	7.571	7.631	VV	303	8065	0.23%	0.083%
99	7.643	7.631	7.694	VV	316	8255	0.24%	0.085%
100	7.709	7.694	7.728	VV	346	4443	0.13%	0.046%
101	7.753	7.728	7.785	VV	1027	13578	0.39%	0.139%
102	7.809	7.785	7.828	VV	1035	13171	0.38%	0.135%
103	7.842	7.828	7.864	VV	353	5975	0.17%	0.061%
104	7.879	7.864	7.895	VV	358	4478	0.13%	0.046%
105	7.913	7.895	7.944	VV	344	4604	0.13%	0.047%
106	7.965	7.944	7.986	VV	447	5840	0.17%	0.060%
107	8.008	7.986	8.034	VV	231	4769	0.14%	0.049%
108	8.057	8.034	8.128	VV	4303	66857	1.91%	0.686%
109	8.165	8.128	8.184	VV	748	18163	0.52%	0.186%
110	8.202	8.184	8.227	VV	622	11129	0.32%	0.114%
111	8.249	8.227	8.271	VV	567	8644	0.25%	0.089%
112	8.288	8.271	8.318	VV	851	10073	0.29%	0.103%
113	8.402	8.318	8.424	VV	789	20447	0.58%	0.210%
114	8.445	8.424	8.457	VV	549	7610	0.22%	0.078%
115	8.469	8.457	8.488	VV	494	8056	0.23%	0.083%
116	8.513	8.488	8.529	VV	825	14357	0.41%	0.147%
117	8.544	8.529	8.558	VV	694	9921	0.28%	0.102%
118	8.594	8.558	8.638	VV	1337	34833	0.99%	0.358%
119	8.655	8.638	8.688	VV	617	9547	0.27%	0.098%
120	8.706	8.688	8.727	VV	552	8038	0.23%	0.083%
121	8.776	8.727	8.795	VV	2306	33343	0.95%	0.342%
122	8.811	8.795	8.864	VV	1259	33799	0.96%	0.347%
123	8.889	8.864	8.944	VV	3221	55481	1.58%	0.570%
124	8.962	8.944	8.984	VV	857	11473	0.33%	0.118%
125	9.011	8.984	9.038	VV	580	9457	0.27%	0.097%
126	9.092	9.038	9.108	VV	352	10042	0.29%	0.103%
127	9.114	9.108	9.132	VV	328	3499	0.10%	0.036%
128	9.177	9.132	9.216	VV	664	18559	0.53%	0.191%
129	9.239	9.216	9.278	VV	1415	22143	0.63%	0.227%
130	9.296	9.278	9.355	VV	316	9287	0.26%	0.095%
131	9.382	9.355	9.414	VV	567	10334	0.29%	0.106%
132	9.433	9.414	9.472	VV	584	11122	0.32%	0.114%
133	9.486	9.472	9.554	VV	312	7597	0.22%	0.078%
134	9.573	9.554	9.601	VV	465	7507	0.21%	0.077%
135	9.616	9.601	9.630	VV	238	3500	0.10%	0.036%
136	9.654	9.630	9.702	VV	1677	26847	0.77%	0.276%
137	9.726	9.702	9.738	VV	450	7180	0.20%	0.074%
138	9.750	9.738	9.779	VV	412	7673	0.22%	0.079%
139	9.796	9.779	9.811	VV	373	5251	0.15%	0.054%
140	9.823	9.811	9.853	VV	358	4198	0.12%	0.043%
141	9.900	9.853	9.911	PV	208	4596	0.13%	0.047%

rteres

142	9.931	9.911	9.944	VV	348	4674	0.13%	0.048%
143	9.970	9.944	10.010	VV	592	14063	0.40%	0.144%
144	10.046	10.010	10.062	VV	627	14144	0.40%	0.145%
145	10.079	10.062	10.103	VV	562	10202	0.29%	0.105%
146	10.125	10.103	10.144	VV	473	9075	0.26%	0.093%
147	10.160	10.144	10.185	VV	391	6115	0.17%	0.063%
148	10.207	10.185	10.220	VV	294	4792	0.14%	0.049%
149	10.249	10.220	10.264	VV	646	10661	0.30%	0.109%
150	10.282	10.264	10.304	VV	530	9802	0.28%	0.101%
151	10.333	10.304	10.354	VV	747	14645	0.42%	0.150%
152	10.394	10.354	10.424	VV	823	23569	0.67%	0.242%
153	10.443	10.424	10.457	VV	583	8509	0.24%	0.087%
154	10.475	10.457	10.488	VV	617	8813	0.25%	0.090%
155	10.514	10.488	10.543	VV	1688	29712	0.85%	0.305%
156	10.557	10.543	10.593	VV	344	9439	0.27%	0.097%
157	10.606	10.593	10.635	VV	407	6646	0.19%	0.068%
158	10.642	10.635	10.654	VV	178	1754	0.05%	0.018%
159	10.675	10.654	10.684	VV	295	4177	0.12%	0.043%
160	10.711	10.684	10.740	VV	479	10334	0.29%	0.106%
161	10.752	10.740	10.768	VV	408	5377	0.15%	0.055%
162	10.811	10.768	10.831	VV	786	17633	0.50%	0.181%
163	10.840	10.831	10.859	VV	325	3589	0.10%	0.037%
164	10.875	10.859	10.928	VV	237	6629	0.19%	0.068%
165	10.941	10.928	10.958	VV	148	1418	0.04%	0.015%
166	10.961	10.958	10.968	VV	90	354	0.01%	0.004%
167	10.975	10.968	10.986	VV	66	512	0.01%	0.005%
168	11.022	10.986	11.054	VV	2094	31627	0.90%	0.325%
169	11.092	11.054	11.121	VV	2587	40470	1.15%	0.415%
170	11.148	11.121	11.161	VV	323	6825	0.19%	0.070%
171	11.186	11.161	11.224	VV	705	13456	0.38%	0.138%
172	11.241	11.224	11.263	VV	108	1709	0.05%	0.018%
173	11.275	11.263	11.282	VV	138	825	0.02%	0.008%
174	11.300	11.282	11.351	VV	226	4147	0.12%	0.043%
175	11.404	11.351	11.418	VV	293	7770	0.22%	0.080%
176	11.445	11.418	11.460	VV	386	8673	0.25%	0.089%
177	11.477	11.460	11.514	VV	634	12417	0.35%	0.127%
178	11.523	11.514	11.535	VV	294	2889	0.08%	0.030%
179	11.555	11.535	11.591	VV	565	10836	0.31%	0.111%
180	11.609	11.591	11.632	VV	234	3719	0.11%	0.038%
181	11.682	11.632	11.698	VV	415	11047	0.32%	0.113%
182	11.747	11.698	11.787	VV	878	31977	0.91%	0.328%
183	11.799	11.787	11.828	VV	569	10211	0.29%	0.105%
184	11.841	11.828	11.871	VV	412	8966	0.26%	0.092%
185	11.891	11.871	11.932	VV	609	15946	0.45%	0.164%
186	11.972	11.932	12.012	VV	1380	36910	1.05%	0.379%
187	12.031	12.012	12.058	VV	687	13072	0.37%	0.134%
188	12.070	12.058	12.111	VV	687	11539	0.33%	0.118%
189	12.167	12.111	12.184	VV	551	16849	0.48%	0.173%
190	12.257	12.184	12.303	VV	1762	48521	1.38%	0.498%
191	12.336	12.303	12.368	VV	1549	24274	0.69%	0.249%
192	12.396	12.368	12.444	VV	3285	47994	1.37%	0.493%
193	12.462	12.444	12.489	VV	359	6719	0.19%	0.069%
194	12.505	12.489	12.566	VV	307	8815	0.25%	0.090%

rteres

195	12.579	12.566	12.591	VV	126	1645	0.05%	0.017%
196	12.684	12.623	12.700	PV	340	10713	0.31%	0.110%
197	12.715	12.700	12.734	VV	323	4600	0.13%	0.047%
198	12.768	12.734	12.788	VV	342	8460	0.24%	0.087%
199	12.838	12.788	12.978	VV	280974	3506755	100.00%	36.001%
200	13.002	12.978	13.044	VV	889	28513	0.81%	0.293%
201	13.069	13.044	13.098	VV	744	19554	0.56%	0.201%
202	13.122	13.098	13.176	VV	575	21945	0.63%	0.225%
203	13.202	13.176	13.241	VV	657	21451	0.61%	0.220%
204	13.288	13.241	13.320	VV	868	28792	0.82%	0.296%
205	13.353	13.320	13.368	VV	400	9724	0.28%	0.100%
206	13.460	13.368	13.487	VV	534	28682	0.82%	0.294%
207	13.540	13.487	13.566	VV	1452	32924	0.94%	0.338%
208	13.592	13.566	13.644	VV	2910	50512	1.44%	0.519%
209	13.650	13.644	13.664	VV	309	3552	0.10%	0.036%
210	13.672	13.664	13.720	VV	329	7701	0.22%	0.079%
211	13.730	13.720	13.771	VV	239	5007	0.14%	0.051%
212	13.842	13.771	13.861	VV	337	13353	0.38%	0.137%
213	13.884	13.861	13.914	VV	319	7876	0.22%	0.081%
214	13.948	13.914	13.983	VV	276	8994	0.26%	0.092%
215	14.031	13.983	14.071	VV	842	23602	0.67%	0.242%
216	14.082	14.071	14.102	VV	395	5992	0.17%	0.062%
217	14.155	14.102	14.192	VV	649	19244	0.55%	0.198%
218	14.209	14.192	14.217	VV	299	3933	0.11%	0.040%
219	14.237	14.217	14.254	VV	338	6995	0.20%	0.072%
220	14.269	14.254	14.291	VV	443	8455	0.24%	0.087%
221	14.297	14.291	14.373	VV	489	16908	0.48%	0.174%
222	14.401	14.373	14.411	VV	410	7547	0.22%	0.077%
223	14.419	14.411	14.429	VV	351	3567	0.10%	0.037%
224	14.464	14.429	14.491	VV	522	15412	0.44%	0.158%
225	14.501	14.491	14.521	VV	512	6804	0.19%	0.070%
226	14.543	14.521	14.584	VV	338	8288	0.24%	0.085%
227	14.612	14.584	14.622	VV	265	4831	0.14%	0.050%
228	14.649	14.622	14.670	VV	1192	20158	0.57%	0.207%
229	14.694	14.670	14.828	VV	2711	53078	1.51%	0.545%
230	14.863	14.828	14.898	PV	237	5409	0.15%	0.056%
231	14.922	14.898	14.938	VV	94	1970	0.06%	0.020%
232	14.939	14.938	14.984	VV	150	1058	0.03%	0.011%
233	15.001	14.984	15.064	PV	101	2302	0.07%	0.024%
234	15.072	15.064	15.078	VV	96	548	0.02%	0.006%
235	15.124	15.078	15.151	VV	195	5248	0.15%	0.054%
236	15.158	15.151	15.167	VV	142	1143	0.03%	0.012%
237	15.214	15.167	15.300	VV	1027	22629	0.65%	0.232%
238	15.331	15.300	15.340	VV	190	3187	0.09%	0.033%
239	15.355	15.340	15.390	VV	313	6510	0.19%	0.067%
240	15.410	15.390	15.429	VV	318	5065	0.14%	0.052%
241	15.435	15.429	15.441	VV	206	1439	0.04%	0.015%
242	15.448	15.441	15.474	VV	234	2994	0.09%	0.031%
243	15.534	15.474	15.548	VV	347	11701	0.33%	0.120%
244	15.566	15.548	15.634	VV	428	13293	0.38%	0.136%
245	15.674	15.634	15.691	VV	901	14657	0.42%	0.150%
246	15.713	15.691	15.818	VV	2592	52376	1.49%	0.538%

rteres

247	15.827	15.818	15.868	VV	112	2044	0.06%	0.021%
248	15.887	15.868	15.950	VV	163	4359	0.12%	0.045%
249	15.961	15.950	16.000	PV	80	1416	0.04%	0.015%
250	16.013	16.000	16.031	VV	100	1279	0.04%	0.013%
251	16.058	16.031	16.091	VV	119	3145	0.09%	0.032%
252	16.095	16.091	16.106	VV	163	639	0.02%	0.007%
253	16.133	16.106	16.163	VV	106	2777	0.08%	0.029%
254	16.196	16.163	16.268	VV	1344	27810	0.79%	0.286%
255	16.278	16.268	16.298	VV	149	2164	0.06%	0.022%
256	16.306	16.298	16.330	VV	150	2481	0.07%	0.025%
257	16.362	16.330	16.384	VV	275	6421	0.18%	0.066%
258	16.388	16.384	16.412	VV	270	3216	0.09%	0.033%
259	16.488	16.412	16.525	VV	238	12111	0.35%	0.124%
260	16.551	16.525	16.572	VV	292	6496	0.19%	0.067%
261	16.583	16.572	16.598	VV	361	4013	0.11%	0.041%
262	16.625	16.598	16.638	VV	820	12376	0.35%	0.127%
263	16.662	16.638	16.723	VV	2644	48599	1.39%	0.499%
264	16.737	16.723	16.792	VV	175	5861	0.17%	0.060%
265	16.801	16.792	16.824	VV	167	1867	0.05%	0.019%
266	16.834	16.824	16.881	VV	112	1542	0.04%	0.016%
267	16.902	16.881	16.924	PV	73	650	0.02%	0.007%
268	16.958	16.924	16.981	VV	285	4977	0.14%	0.051%
269	17.000	16.981	17.014	VV	156	2418	0.07%	0.025%
270	17.044	17.014	17.054	VV	155	2389	0.07%	0.025%
271	17.111	17.054	17.146	PV	2126	37210	1.06%	0.382%
272	17.162	17.146	17.171	VV	153	2221	0.06%	0.023%
273	17.211	17.171	17.274	VV	235	10135	0.29%	0.104%
274	17.292	17.274	17.344	VV	262	7289	0.21%	0.075%
275	17.391	17.344	17.412	VV	314	8765	0.25%	0.090%
276	17.434	17.412	17.474	VV	248	5941	0.17%	0.061%
277	17.548	17.474	17.602	VV	3197	66642	1.90%	0.684%
278	17.648	17.602	17.684	VV	410	12598	0.36%	0.129%
279	17.697	17.684	17.781	VV	240	6321	0.18%	0.065%
280	17.823	17.781	17.844	PV	352	5309	0.15%	0.055%
281	17.858	17.844	17.896	VV	133	2369	0.07%	0.024%
282	17.969	17.896	18.015	PV	2641	42622	1.22%	0.438%
283	18.069	18.015	18.094	VV	132	4217	0.12%	0.043%
284	18.100	18.094	18.118	VV	120	948	0.03%	0.010%
285	18.138	18.118	18.178	VV	149	2528	0.07%	0.026%
286	18.196	18.178	18.201	VV	122	985	0.03%	0.010%
287	18.228	18.201	18.246	VV	308	5083	0.14%	0.052%
288	18.250	18.246	18.265	VV	224	2024	0.06%	0.021%
289	18.274	18.265	18.288	VV	125	1516	0.04%	0.016%
290	18.311	18.288	18.320	VV	148	2402	0.07%	0.025%
291	18.379	18.320	18.454	VV	3021	62262	1.78%	0.639%
292	18.522	18.454	18.531	VV	190	5780	0.16%	0.059%
293	18.545	18.531	18.574	VV	172	2763	0.08%	0.028%
294	18.581	18.574	18.589	VV	126	897	0.03%	0.009%
295	18.601	18.589	18.611	VV	124	1097	0.03%	0.011%
296	18.636	18.611	18.653	VV	244	3552	0.10%	0.036%
297	18.678	18.653	18.705	PV	166	2574	0.07%	0.026%
298	18.777	18.705	18.830	VV	1838	33033	0.94%	0.339%
299	18.912	18.830	18.921	VV	133	5169	0.15%	0.053%

rteres

300	18.952	18.921	18.985	VV	239	5587	0.16%	0.057%
301	19.097	18.985	19.113	VV	265	14526	0.41%	0.149%
302	19.162	19.113	19.196	VV	2346	47405	1.35%	0.487%
303	19.205	19.196	19.228	VV	341	5258	0.15%	0.054%
304	19.465	19.228	19.509	VV	3199	203473	5.80%	2.089%
305	19.536	19.509	19.634	VV	2765	100913	2.88%	1.036%
306	19.656	19.634	19.665	VV	701	11707	0.33%	0.120%
307	19.793	19.665	19.828	VV	1094	79440	2.27%	0.816%
308	19.901	19.828	19.941	VV	2792	98359	2.80%	1.010%
309	19.963	19.941	20.007	VV	1360	51501	1.47%	0.529%
310	20.257	20.007	20.294	VV	2407	276782	7.89%	2.842%
311	20.435	20.294	20.454	VV	2602	217166	6.19%	2.229%
312	20.611	20.454	20.668	VV	3752	349273	9.96%	3.586%
313	20.685	20.668	20.701	VV	2492	50061	1.43%	0.514%
314	20.709	20.701	20.714	VV	2449	18502	0.53%	0.190%
315	20.721	20.714	20.729	VV	2462	21627	0.62%	0.222%
316	20.763	20.729	20.803	VV	2457	104661	2.98%	1.074%
317	20.812	20.803	20.851	VV	2318	64007	1.83%	0.657%
318	20.867	20.851	20.888	VV	2239	47215	1.35%	0.485%
319	20.895	20.888	20.908	VV	2136	25121	0.72%	0.258%
320	20.921	20.908	20.971	VV	2189	77230	2.20%	0.793%
321	21.012	20.971	21.041	VV	2126	83702	2.39%	0.859%
322	21.078	21.041	21.099	VV	1846	62887	1.79%	0.646%
323	21.259	21.099	21.291	VV	1757	201405	5.74%	2.068%
324	21.300	21.291	21.331	VV	1718	39951	1.14%	0.410%
325	21.359	21.331	21.378	VV	1604	44425	1.27%	0.456%
326	21.466	21.378	21.511	VV	2317	139474	3.98%	1.432%
327	21.533	21.511	21.590	VV	1459	64137	1.83%	0.658%
328	21.749	21.590	21.924	VV	1144	199893	5.70%	2.052%
329	21.950	21.924	22.191	VV	671	62383	1.78%	0.640%

Sum of corrected areas: 9740582

Aliphatic EPH 021125.M Sat Mar 01 01:33:00 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78.4
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
FD049144.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.38	U	0.38	0.85	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.45	J	0.43	1.27	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.67	J	1.22	2.12	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.55	U	2.55	3.40	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.8		40 - 140	100%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.4		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.2		40 - 140	48%	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:	Q1421-09	Acq On:	28 Feb 2025 20:09
Client Sample ID:	P001-CLAY-CF02-01	Operator:	YP/AJ
Data file:	FD049144.D	Misc:	
Instrument:	FID_D	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	505124	3.176	200	ug/ml
Aromatic C12-C16	5.795	8.396	851814	5.293	300	ug/ml
Aromatic C16-C21	8.397	12.661	3018801	19.684	500	ug/ml
Aromatic C21-C36	12.662	18.073	3101568	21.672	800	ug/ml
Aromatic EPH	4.076	18.073	7477307	49.826		ug/ml
2-Bromonaphthalene (SURR)	7.351	7.351	7126244	49.8		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	4606351	52.4		ug/ml
ortho-Terphenyl (SURR)	11.233	11.233	3917944	24.22		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049144.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 20:09
Operator : YP/AJ
Sample : Q1421-09
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Mar 01 02:22:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.351	7126244	49.796 ug/ml
Spiked Amount 50.000		Recovery =	99.59%
6) S 2-Flurobiphenyl (SURR)	8.201	4606351	52.397 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	104.79%
11) S ortho-Terphenyl (SURR)	11.233	3917944	24.219 ug/ml
Spiked Amount 50.000		Recovery =	48.44%
Target Compounds			

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

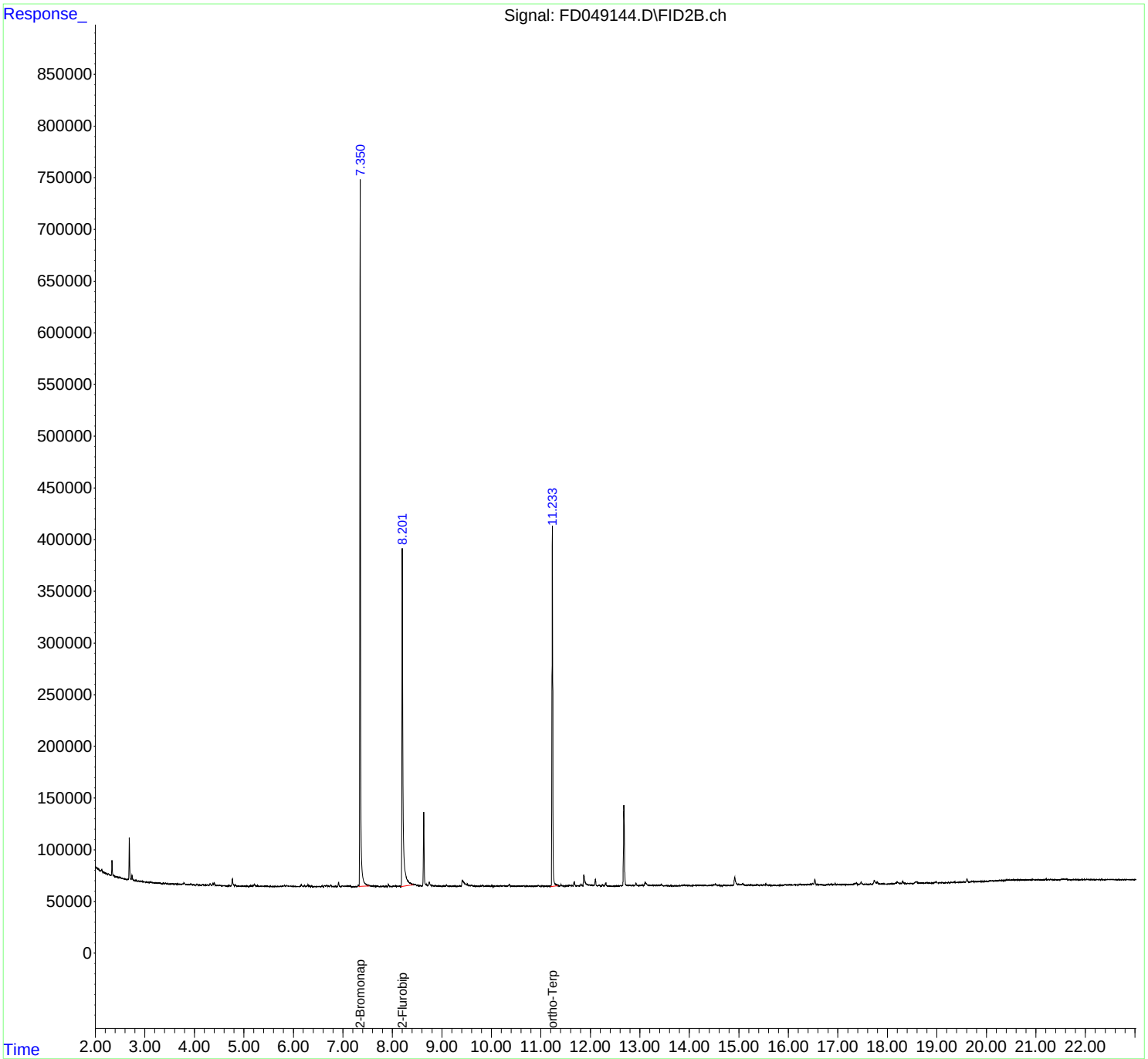
Quantitation Report (QT Reviewed)

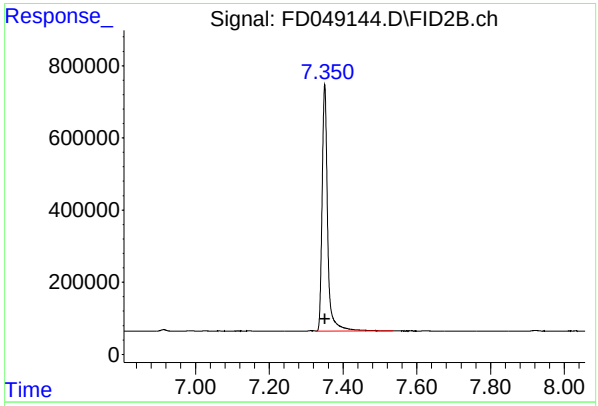
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049144.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 20:09
Operator : YP/AJ
Sample : Q1421-09
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Mar 01 02:22:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

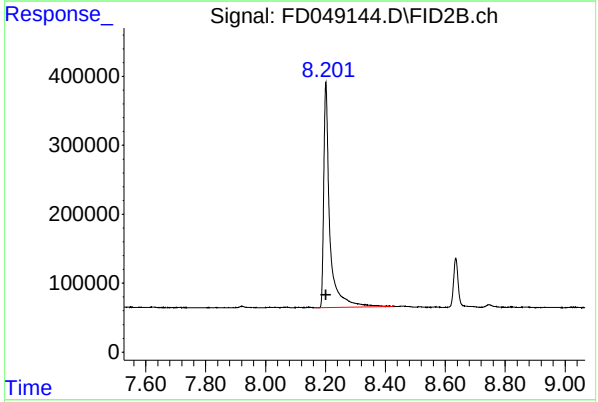




#4 2-Bromonaphthalene (SURR)

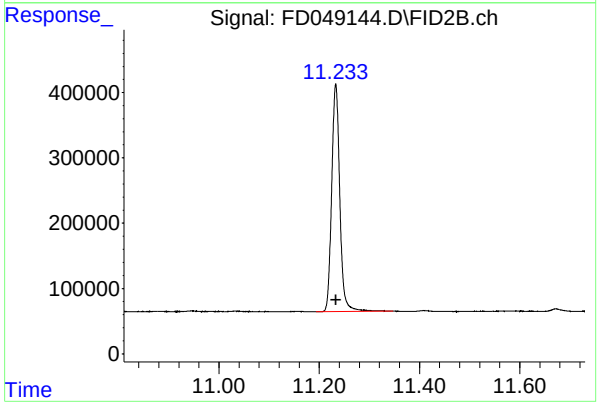
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 7126244
Conc: 49.80 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF02-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 4606351
Conc: 52.40 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3917944
Conc: 24.22 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049144.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 20:09
Sample : Q1421-09
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.059	4.042	4.064	BV	154	1228	0.02%	0.005%
2	4.085	4.080	4.145	VV	328	3649	0.05%	0.016%
3	4.169	4.145	4.219	PV	1130	21400	0.30%	0.092%
4	4.234	4.219	4.242	VV	374	3858	0.05%	0.017%
5	4.260	4.242	4.281	VV	571	8541	0.12%	0.037%
6	4.317	4.281	4.354	VV	2165	32726	0.46%	0.140%
7	4.373	4.354	4.385	VV	2093	23180	0.32%	0.099%
8	4.401	4.385	4.450	VV	2986	45433	0.63%	0.194%
9	4.455	4.450	4.478	VV	441	3354	0.05%	0.014%
10	4.512	4.478	4.569	VV	716	19579	0.27%	0.084%
11	4.581	4.569	4.611	PV	472	7476	0.10%	0.032%
12	4.615	4.611	4.622	VV	327	1612	0.02%	0.007%
13	4.635	4.622	4.654	VV	362	3805	0.05%	0.016%
14	4.690	4.654	4.701	VV	602	7755	0.11%	0.033%
15	4.710	4.701	4.720	VV	338	2710	0.04%	0.012%
16	4.733	4.720	4.740	VV	383	2663	0.04%	0.011%
17	4.769	4.740	4.812	VV	7080	100608	1.40%	0.431%
18	4.828	4.812	4.866	VV	1556	23019	0.32%	0.099%
19	4.901	4.866	4.917	VV	311	5648	0.08%	0.024%
20	4.927	4.917	4.934	VV	497	2630	0.04%	0.011%
21	4.940	4.934	4.952	VV	298	1520	0.02%	0.007%
22	4.964	4.952	4.995	VV	401	6990	0.10%	0.030%
23	5.002	4.995	5.026	PV	305	2569	0.04%	0.011%
24	5.034	5.026	5.056	VV	230	2598	0.04%	0.011%
25	5.062	5.056	5.072	VV	496	1869	0.03%	0.008%
26	5.082	5.072	5.102	VV	271	1971	0.03%	0.008%
27	5.139	5.102	5.157	PV	790	16115	0.22%	0.069%
28	5.170	5.157	5.178	VV	722	7032	0.10%	0.030%
29	5.215	5.178	5.260	VV	2582	53066	0.74%	0.227%
30	5.274	5.260	5.298	VV	952	13995	0.19%	0.060%
31	5.305	5.298	5.327	VV	465	5241	0.07%	0.022%
32	5.335	5.327	5.365	VV	431	7932	0.11%	0.034%
33	5.372	5.365	5.415	VV	500	10756	0.15%	0.046%
34	5.419	5.415	5.430	VV	484	3175	0.04%	0.014%
35	5.436	5.430	5.442	VV	373	2291	0.03%	0.010%
36	5.444	5.442	5.454	VV	437	2437	0.03%	0.010%

rteres

37	5.469	5.454	5.480	VV	541	6506	0.09%	0.028%
38	5.484	5.480	5.495	VV	370	2507	0.03%	0.011%
39	5.502	5.495	5.529	VV	300	4379	0.06%	0.019%
40	5.537	5.529	5.554	VV	345	2546	0.04%	0.011%
41	5.577	5.559	5.592	VV	332	2972	0.04%	0.013%
42	5.597	5.592	5.610	VV	208	1228	0.02%	0.005%
43	5.643	5.638	5.660	VV	373	1813	0.03%	0.008%
44	5.690	5.660	5.717	VV	424	7717	0.11%	0.033%
45	5.729	5.717	5.748	VV	316	5094	0.07%	0.022%
46	5.777	5.748	5.793	VV	665	11159	0.16%	0.048%
47	5.817	5.793	5.855	VV	1151	24265	0.34%	0.104%
48	5.869	5.855	5.899	VV	1507	21644	0.30%	0.093%
49	5.902	5.899	5.913	VV	437	3500	0.05%	0.015%
50	5.921	5.913	5.927	VV	619	4129	0.06%	0.018%
51	5.942	5.927	5.964	VV	736	11501	0.16%	0.049%
52	5.973	5.964	5.992	VV	361	4611	0.06%	0.020%
53	6.010	5.992	6.035	VV	407	6880	0.10%	0.029%
54	6.040	6.035	6.045	VV	334	1300	0.02%	0.006%
55	6.051	6.045	6.070	VV	312	2906	0.04%	0.012%
56	6.083	6.078	6.090	VV	306	1676	0.02%	0.007%
57	6.095	6.090	6.113	VV	303	2216	0.03%	0.009%
58	6.157	6.113	6.209	VV	1626	40010	0.56%	0.171%
59	6.223	6.209	6.247	VV	1327	17060	0.24%	0.073%
60	6.264	6.247	6.278	VV	848	9109	0.13%	0.039%
61	6.294	6.278	6.314	VV	1781	25208	0.35%	0.108%
62	6.321	6.314	6.347	VV	804	11308	0.16%	0.048%
63	6.368	6.347	6.396	VV	1022	13778	0.19%	0.059%
64	6.414	6.396	6.428	VV	357	4112	0.06%	0.018%
65	6.434	6.428	6.442	VV	378	1883	0.03%	0.008%
66	6.451	6.442	6.472	VV	304	3290	0.05%	0.014%
67	6.504	6.472	6.512	VV	359	5633	0.08%	0.024%
68	6.513	6.512	6.535	VV	317	3172	0.04%	0.014%
69	6.541	6.535	6.553	VV	442	2765	0.04%	0.012%
70	6.580	6.563	6.605	PV	1265	14504	0.20%	0.062%
71	6.632	6.605	6.657	VV	1233	24363	0.34%	0.104%
72	6.679	6.657	6.697	VV	1543	25653	0.36%	0.110%
73	6.707	6.697	6.733	VV	1020	14555	0.20%	0.062%
74	6.758	6.733	6.782	VV	2116	31417	0.44%	0.134%
75	6.789	6.782	6.801	VV	336	3323	0.05%	0.014%
76	6.806	6.801	6.820	VV	351	2788	0.04%	0.012%
77	6.832	6.820	6.838	VV	395	3043	0.04%	0.013%
78	6.857	6.838	6.874	VV	580	7774	0.11%	0.033%
79	6.914	6.874	6.948	VV	4604	56805	0.79%	0.243%
80	6.982	6.948	7.010	VV	1055	22980	0.32%	0.098%
81	7.026	7.010	7.057	VV	1212	21268	0.30%	0.091%
82	7.062	7.057	7.083	VV	967	10745	0.15%	0.046%
83	7.115	7.083	7.120	VV	892	13981	0.19%	0.060%
84	7.124	7.120	7.132	VV	834	4617	0.06%	0.020%
85	7.146	7.132	7.179	VV	1080	15062	0.21%	0.064%
86	7.186	7.179	7.206	VV	173	1919	0.03%	0.008%
87	7.213	7.206	7.244	VV	236	3286	0.05%	0.014%
88	7.262	7.244	7.288	VV	326	4918	0.07%	0.021%
89	7.314	7.288	7.327	PV	1767	21470	0.30%	0.092%

rteres

90	7.351	7.327	7.512	VV	683235	7190953	100.00%	30.784%
91	7.518	7.512	7.536	VV	1415	18422	0.26%	0.079%
92	7.540	7.536	7.572	VV	1071	19155	0.27%	0.082%
93	7.580	7.572	7.597	VV	988	12248	0.17%	0.052%
94	7.598	7.597	7.610	VV	818	5132	0.07%	0.022%
95	7.624	7.610	7.645	VV	1149	17868	0.25%	0.076%
96	7.648	7.645	7.662	VV	507	4364	0.06%	0.019%
97	7.684	7.662	7.688	VV	548	6399	0.09%	0.027%
98	7.695	7.688	7.701	VV	501	3481	0.05%	0.015%
99	7.712	7.701	7.743	VV	668	11846	0.16%	0.051%
100	7.749	7.743	7.759	VV	377	2996	0.04%	0.013%
101	7.763	7.759	7.770	VV	404	2137	0.03%	0.009%
102	7.808	7.770	7.823	VV	462	9336	0.13%	0.040%
103	7.835	7.823	7.850	VV	464	5540	0.08%	0.024%
104	7.862	7.850	7.875	VV	475	4503	0.06%	0.019%
105	7.877	7.875	7.886	VV	502	2014	0.03%	0.009%
106	7.892	7.886	7.896	VV	426	1739	0.02%	0.007%
107	7.921	7.896	7.940	VV	2483	31039	0.43%	0.133%
108	7.946	7.940	7.987	VV	728	11389	0.16%	0.049%
109	8.013	7.987	8.023	VV	867	10754	0.15%	0.046%
110	8.031	8.023	8.050	VV	865	10096	0.14%	0.043%
111	8.069	8.050	8.086	VV	1006	14242	0.20%	0.061%
112	8.111	8.086	8.133	VV	841	13718	0.19%	0.059%
113	8.146	8.133	8.168	VV	998	11708	0.16%	0.050%
114	8.201	8.168	8.365	VV	326790	4689400	65.21%	20.075%
115	8.369	8.365	8.426	VV	3408	95261	1.32%	0.408%
116	8.430	8.426	8.442	VV	2252	20430	0.28%	0.087%
117	8.457	8.442	8.501	VV	2497	67859	0.94%	0.290%
118	8.517	8.501	8.539	VV	1467	26743	0.37%	0.114%
119	8.566	8.539	8.588	VV	1355	29638	0.41%	0.127%
120	8.592	8.588	8.596	VV	736	3601	0.05%	0.015%
121	8.635	8.596	8.719	VV	72186	834278	11.60%	3.571%
122	8.746	8.719	8.805	VV	4653	101550	1.41%	0.435%
123	8.821	8.805	8.844	VV	1303	21352	0.30%	0.091%
124	8.873	8.844	8.918	VV	1203	33401	0.46%	0.143%
125	8.932	8.918	8.942	VV	823	8570	0.12%	0.037%
126	8.948	8.942	8.963	VV	743	8238	0.11%	0.035%
127	8.968	8.963	8.997	VV	711	9450	0.13%	0.040%
128	9.027	8.997	9.032	VV	861	13350	0.19%	0.057%
129	9.035	9.032	9.072	VV	849	12155	0.17%	0.052%
130	9.093	9.072	9.150	VV	1569	33118	0.46%	0.142%
131	9.153	9.150	9.160	VV	315	2004	0.03%	0.009%
132	9.177	9.160	9.193	VV	507	7799	0.11%	0.033%
133	9.206	9.193	9.210	VV	421	3894	0.05%	0.017%
134	9.214	9.210	9.219	VV	522	1896	0.03%	0.008%
135	9.224	9.219	9.229	VV	402	1918	0.03%	0.008%
136	9.242	9.229	9.283	VV	866	15382	0.21%	0.066%
137	9.287	9.283	9.290	VV	432	1614	0.02%	0.007%
138	9.296	9.290	9.309	VV	472	4491	0.06%	0.019%
139	9.312	9.309	9.319	VV	453	2199	0.03%	0.009%
140	9.337	9.319	9.348	VV	642	7987	0.11%	0.034%
141	9.361	9.348	9.383	VV	848	12455	0.17%	0.053%

142	9.388	9.383	9.395	VV	516	3153	0.04%	0.013%
143	9.414	9.395	9.500	VV	6264	220678	3.07%	0.945%
144	9.515	9.500	9.573	VV	2478	64921	0.90%	0.278%
145	9.580	9.573	9.586	VV	1106	8183	0.11%	0.035%
146	9.596	9.586	9.635	VV	1203	27007	0.38%	0.116%
147	9.637	9.635	9.641	VV	972	2437	0.03%	0.010%
148	9.651	9.641	9.672	VV	679	10407	0.14%	0.045%
149	9.675	9.672	9.679	VV	499	1935	0.03%	0.008%
150	9.684	9.679	9.706	VV	574	7206	0.10%	0.031%
151	9.713	9.706	9.723	VV	436	3410	0.05%	0.015%
152	9.726	9.723	9.730	VV	330	1250	0.02%	0.005%
153	9.744	9.730	9.762	VV	512	7746	0.11%	0.033%
154	9.765	9.762	9.769	VV	379	1585	0.02%	0.007%
155	9.789	9.769	9.798	VV	784	9773	0.14%	0.042%
156	9.819	9.798	9.845	VV	1238	22700	0.32%	0.097%
157	9.865	9.845	9.875	VV	568	8257	0.11%	0.035%
158	9.905	9.875	9.920	VV	844	16413	0.23%	0.070%
159	9.934	9.920	9.945	VV	798	9198	0.13%	0.039%
160	9.964	9.945	9.978	VV	635	10069	0.14%	0.043%
161	10.011	9.978	10.049	VV	1784	28615	0.40%	0.122%
162	10.107	10.049	10.120	VV	806	20369	0.28%	0.087%
163	10.127	10.120	10.150	VV	758	10646	0.15%	0.046%
164	10.183	10.150	10.211	VV	1017	22962	0.32%	0.098%
165	10.218	10.211	10.234	VV	649	8305	0.12%	0.036%
166	10.255	10.234	10.283	VV	1008	20435	0.28%	0.087%
167	10.294	10.283	10.311	VV	861	9768	0.14%	0.042%
168	10.322	10.311	10.337	VV	687	8035	0.11%	0.034%
169	10.363	10.337	10.391	VV	2166	36178	0.50%	0.155%
170	10.398	10.391	10.403	VV	524	2658	0.04%	0.011%
171	10.411	10.403	10.425	VV	511	6094	0.08%	0.026%
172	10.461	10.425	10.476	VV	709	13084	0.18%	0.056%
173	10.480	10.476	10.495	VV	329	2962	0.04%	0.013%
174	10.500	10.495	10.505	VV	338	1485	0.02%	0.006%
175	10.522	10.505	10.530	VV	598	5749	0.08%	0.025%
176	10.538	10.530	10.546	VV	615	5045	0.07%	0.022%
177	10.568	10.546	10.575	VV	601	8249	0.11%	0.035%
178	10.604	10.575	10.620	VV	534	9619	0.13%	0.041%
179	10.639	10.620	10.645	VV	608	6181	0.09%	0.026%
180	10.663	10.645	10.679	VV	1077	12958	0.18%	0.055%
181	10.703	10.679	10.713	VV	561	6517	0.09%	0.028%
182	10.728	10.713	10.740	VV	517	4757	0.07%	0.020%
183	10.748	10.740	10.754	VV	416	2088	0.03%	0.009%
184	10.760	10.754	10.786	VV	232	4540	0.06%	0.019%
185	10.795	10.786	10.802	VV	299	2162	0.03%	0.009%
186	10.814	10.802	10.819	VV	352	2563	0.04%	0.011%
187	10.823	10.819	10.834	VV	287	1742	0.02%	0.007%
188	10.881	10.834	10.910	VV	687	17721	0.25%	0.076%
189	10.946	10.910	10.972	VV	1316	24784	0.34%	0.106%
190	10.987	10.972	10.995	VV	444	5325	0.07%	0.023%
191	11.004	10.995	11.015	VV	491	4007	0.06%	0.017%
192	11.033	11.015	11.075	VV	993	18025	0.25%	0.077%
193	11.098	11.075	11.120	VV	372	5471	0.08%	0.023%
194	11.152	11.120	11.195	VV	532	11236	0.16%	0.048%

rteres

195	11.233	11.195	11.319	PV	348978	3938687	54.77%	16.861%
196	11.320	11.319	11.347	VV	1752	20322	0.28%	0.087%
197	11.350	11.347	11.385	VV	850	14861	0.21%	0.064%
198	11.409	11.385	11.440	VV	1761	32788	0.46%	0.140%
199	11.445	11.440	11.478	VV	587	9710	0.14%	0.042%
200	11.493	11.478	11.497	VV	650	5281	0.07%	0.023%
201	11.509	11.497	11.517	VV	749	7019	0.10%	0.030%
202	11.528	11.517	11.537	VV	742	7814	0.11%	0.033%
203	11.565	11.537	11.582	VV	1039	21078	0.29%	0.090%
204	11.592	11.582	11.615	VV	1196	16907	0.24%	0.072%
205	11.624	11.615	11.630	VV	845	6441	0.09%	0.028%
206	11.636	11.630	11.641	VV	757	4319	0.06%	0.018%
207	11.672	11.641	11.714	VV	4355	76475	1.06%	0.327%
208	11.737	11.714	11.748	VV	868	13626	0.19%	0.058%
209	11.757	11.748	11.771	VV	872	9840	0.14%	0.042%
210	11.815	11.771	11.847	VV	1865	48368	0.67%	0.207%
211	11.868	11.847	11.927	VV	11310	243939	3.39%	1.044%
212	11.936	11.927	11.964	VV	2136	37707	0.52%	0.161%
213	11.980	11.964	12.010	VV	1553	37475	0.52%	0.160%
214	12.019	12.010	12.037	VV	1263	18175	0.25%	0.078%
215	12.040	12.037	12.047	VV	934	5517	0.08%	0.024%
216	12.053	12.047	12.060	VV	1033	7035	0.10%	0.030%
217	12.102	12.060	12.138	VV	6945	111491	1.55%	0.477%
218	12.179	12.138	12.219	VV	1462	38558	0.54%	0.165%
219	12.243	12.219	12.282	VV	1874	32848	0.46%	0.141%
220	12.310	12.282	12.352	VV	3269	55970	0.78%	0.240%
221	12.361	12.352	12.423	VV	440	13165	0.18%	0.056%
222	12.454	12.423	12.462	PV	288	3785	0.05%	0.016%
223	12.472	12.462	12.484	VV	400	3299	0.05%	0.014%
224	12.526	12.484	12.550	VV	597	15208	0.21%	0.065%
225	12.564	12.550	12.576	VV	495	6488	0.09%	0.028%
226	12.634	12.576	12.644	VV	703	21257	0.30%	0.091%
227	12.677	12.644	12.824	VV	78279	1036453	14.41%	4.437%
228	12.861	12.824	12.882	VV	890	24164	0.34%	0.103%
229	12.920	12.882	12.979	VV	3016	67006	0.93%	0.287%
230	13.004	12.979	13.017	VV	742	14672	0.20%	0.063%
231	13.055	13.017	13.076	VV	1043	28789	0.40%	0.123%
232	13.106	13.076	13.210	VV	3926	132492	1.84%	0.567%
233	13.225	13.210	13.249	VV	796	15538	0.22%	0.067%
234	13.264	13.249	13.282	VV	872	15234	0.21%	0.065%
235	13.298	13.282	13.324	VV	888	17890	0.25%	0.077%
236	13.335	13.324	13.350	VV	751	9381	0.13%	0.040%
237	13.381	13.350	13.417	VV	1230	33428	0.46%	0.143%
238	13.433	13.417	13.468	VV	2041	32223	0.45%	0.138%
239	13.482	13.468	13.525	VV	505	12682	0.18%	0.054%
240	13.542	13.525	13.584	VV	595	14913	0.21%	0.064%
241	13.592	13.584	13.640	VV	517	10639	0.15%	0.046%
242	13.653	13.640	13.681	VV	469	7721	0.11%	0.033%
243	13.704	13.681	13.714	VV	459	6265	0.09%	0.027%
244	13.725	13.714	13.750	VV	484	6904	0.10%	0.030%
245	13.767	13.750	13.780	VV	439	5377	0.07%	0.023%
246	13.801	13.780	13.829	VV	372	8926	0.12%	0.038%

rteres

247	13.889	13.829	13.964	VV	1086	46574	0.65%	0.199%
248	13.996	13.964	14.036	VV	681	19329	0.27%	0.083%
249	14.056	14.036	14.063	VV	428	5277	0.07%	0.023%
250	14.078	14.063	14.100	VV	545	9193	0.13%	0.039%
251	14.118	14.100	14.139	VV	626	10494	0.15%	0.045%
252	14.167	14.139	14.184	VV	675	15045	0.21%	0.064%
253	14.190	14.184	14.215	VV	604	9512	0.13%	0.041%
254	14.236	14.215	14.268	VV	649	14902	0.21%	0.064%
255	14.295	14.268	14.324	VV	687	16799	0.23%	0.072%
256	14.336	14.324	14.355	VV	605	7940	0.11%	0.034%
257	14.388	14.355	14.430	VV	564	16286	0.23%	0.070%
258	14.450	14.430	14.460	VV	441	6672	0.09%	0.029%
259	14.491	14.460	14.512	VV	1234	25870	0.36%	0.111%
260	14.532	14.512	14.570	VV	1915	36092	0.50%	0.155%
261	14.593	14.570	14.626	VV	955	18221	0.25%	0.078%
262	14.642	14.626	14.670	VV	413	6800	0.09%	0.029%
263	14.698	14.670	14.775	PV	748	22835	0.32%	0.098%
264	14.793	14.775	14.827	VV	421	8092	0.11%	0.035%
265	14.847	14.827	14.889	VV	570	14615	0.20%	0.063%
266	14.915	14.889	14.984	VV	8347	196729	2.74%	0.842%
267	14.991	14.984	15.030	VV	1503	31859	0.44%	0.136%
268	15.073	15.030	15.134	VV	2047	67670	0.94%	0.290%
269	15.141	15.134	15.160	VV	618	8040	0.11%	0.034%
270	15.195	15.160	15.218	VV	708	20416	0.28%	0.087%
271	15.240	15.218	15.303	VV	1045	31385	0.44%	0.134%
272	15.389	15.303	15.417	VV	736	34134	0.47%	0.146%
273	15.433	15.417	15.482	VV	660	18993	0.26%	0.081%
274	15.510	15.482	15.529	VV	1060	18848	0.26%	0.081%
275	15.546	15.529	15.572	VV	1631	26620	0.37%	0.114%
276	15.586	15.572	15.615	VV	658	12877	0.18%	0.055%
277	15.627	15.615	15.650	VV	576	6544	0.09%	0.028%
278	15.706	15.650	15.716	VV	447	6870	0.10%	0.029%
279	15.728	15.716	15.800	VV	289	7778	0.11%	0.033%
280	15.834	15.800	15.855	VV	517	5996	0.08%	0.026%
281	15.871	15.855	15.889	PV	238	2487	0.03%	0.011%
282	15.936	15.889	15.964	VV	1013	23397	0.33%	0.100%
283	15.986	15.964	16.009	VV	862	15767	0.22%	0.067%
284	16.025	16.009	16.070	VV	867	20359	0.28%	0.087%
285	16.080	16.070	16.099	VV	546	6830	0.09%	0.029%
286	16.130	16.099	16.166	VV	890	24269	0.34%	0.104%
287	16.184	16.166	16.202	VV	493	9304	0.13%	0.040%
288	16.234	16.202	16.305	VV	1152	40894	0.57%	0.175%
289	16.332	16.305	16.354	VV	670	15418	0.21%	0.066%
290	16.405	16.354	16.435	VV	865	32422	0.45%	0.139%
291	16.458	16.435	16.471	VV	1237	19691	0.27%	0.084%
292	16.490	16.471	16.508	VV	1962	29770	0.41%	0.127%
293	16.533	16.508	16.564	VV	5869	90831	1.26%	0.389%
294	16.584	16.564	16.644	VV	771	23792	0.33%	0.102%
295	16.650	16.644	16.689	VV	439	8258	0.11%	0.035%
296	16.696	16.689	16.726	VV	363	4809	0.07%	0.021%
297	16.737	16.726	16.745	PV	197	1995	0.03%	0.009%
298	16.759	16.745	16.769	VV	318	3319	0.05%	0.014%
299	16.805	16.769	16.845	VV	920	20624	0.29%	0.088%

rteres

300	16.870	16.845	16.917	VV	643	20292	0.28%	0.087%
301	16.941	16.917	16.987	VV	1587	28097	0.39%	0.120%
302	17.017	16.987	17.082	VV	468	19034	0.26%	0.081%
303	17.104	17.082	17.120	VV	474	7062	0.10%	0.030%
304	17.130	17.120	17.153	VV	408	4546	0.06%	0.019%
305	17.182	17.153	17.218	PV	412	11853	0.16%	0.051%
306	17.229	17.218	17.242	VV	309	3478	0.05%	0.015%
307	17.251	17.242	17.264	VV	215	2308	0.03%	0.010%
308	17.270	17.264	17.287	VV	224	2180	0.03%	0.009%
309	17.345	17.287	17.357	VV	1155	20868	0.29%	0.089%
310	17.373	17.357	17.404	VV	1604	26401	0.37%	0.113%
311	17.470	17.404	17.534	VV	2064	53209	0.74%	0.228%
312	17.540	17.534	17.570	VV	449	6310	0.09%	0.027%
313	17.578	17.570	17.607	VV	430	4279	0.06%	0.018%
314	17.672	17.607	17.690	VV	479	9599	0.13%	0.041%
315	17.735	17.690	17.772	VV	3988	88485	1.23%	0.379%
316	17.793	17.772	17.869	VV	2041	56978	0.79%	0.244%
317	17.901	17.869	17.954	VV	572	20668	0.29%	0.088%
318	17.971	17.954	18.047	VV	357	12935	0.18%	0.055%
319	18.053	18.047	18.089	PV	229	2746	0.04%	0.012%
320	18.097	18.089	18.118	VV	129	1810	0.03%	0.008%
321	18.201	18.118	18.232	VV	1996	51003	0.71%	0.218%
322	18.239	18.232	18.275	VV	638	9223	0.13%	0.039%

Sum of corrected areas: 23359609

Aromatic EPH 021125.M Sat Mar 01 04:04:28 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	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
02/26/25 11:45	02/27/25 15:53	PB166883

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	FC068315.D
Aliphatic C12-C16	Aliphatic C12-C16	7.29	J	1	3.61	20.0	ug/l	FC068315.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068315.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068315.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068315.D
Aromatic C10-C12	Aromatic C10-C12	9.81	J	1	3.32	20.0	ug/l	FD049124.D
Aromatic C12-C16	Aromatic C12-C16	14.1	J	1	3.69	30.0	ug/l	FD049124.D
Aromatic C16-C21	Aromatic C16-C21	41.8	J	1	12.7	50.0	ug/l	FD049124.D
Aromatic C21-C36	Aromatic C21-C36	87.2		1	25.2	80.0	ug/l	FD049124.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	153	J		44.9	180	ug/l	
Total EPH	Total EPH	160	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:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	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
FC068315.D	1	02/26/25	02/27/25	PB166883

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	7.29	J	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)	30.9		40 - 140	62%	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:	Q1421-10	Acq On:	27 Feb 2025 15:53
Client Sample ID:	P001-CLAY-CF02-01	Operator:	YP/AJ
Data file:	FC068315.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	3.104	6.370	339595	2.408	300	ug/ml
Aliphatic C12-C16	6.371	9.754	498397	3.647	200	ug/ml
Aliphatic C16-C21	9.755	13.108	439396	3.338	300	ug/ml
Aliphatic C21-C28	13.109	16.762	592177	4.827	400	ug/ml
Aliphatic C28-C40	16.763	21.566	2560351	24.895	600	ug/ml
Aliphatic EPH	3.104	21.566	4429916	39.115		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	3469736	30.85		ug/ml
Aliphatic C9-C28	3.104	16.762	1869565	14.22	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068315.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 15:53
Operator : YP/AJ
Sample : Q1421-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Mar 05 04:44:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	3469736	30.849 ug/ml
Spiked Amount 50.000		Recovery = 61.70%	
Target Compounds			

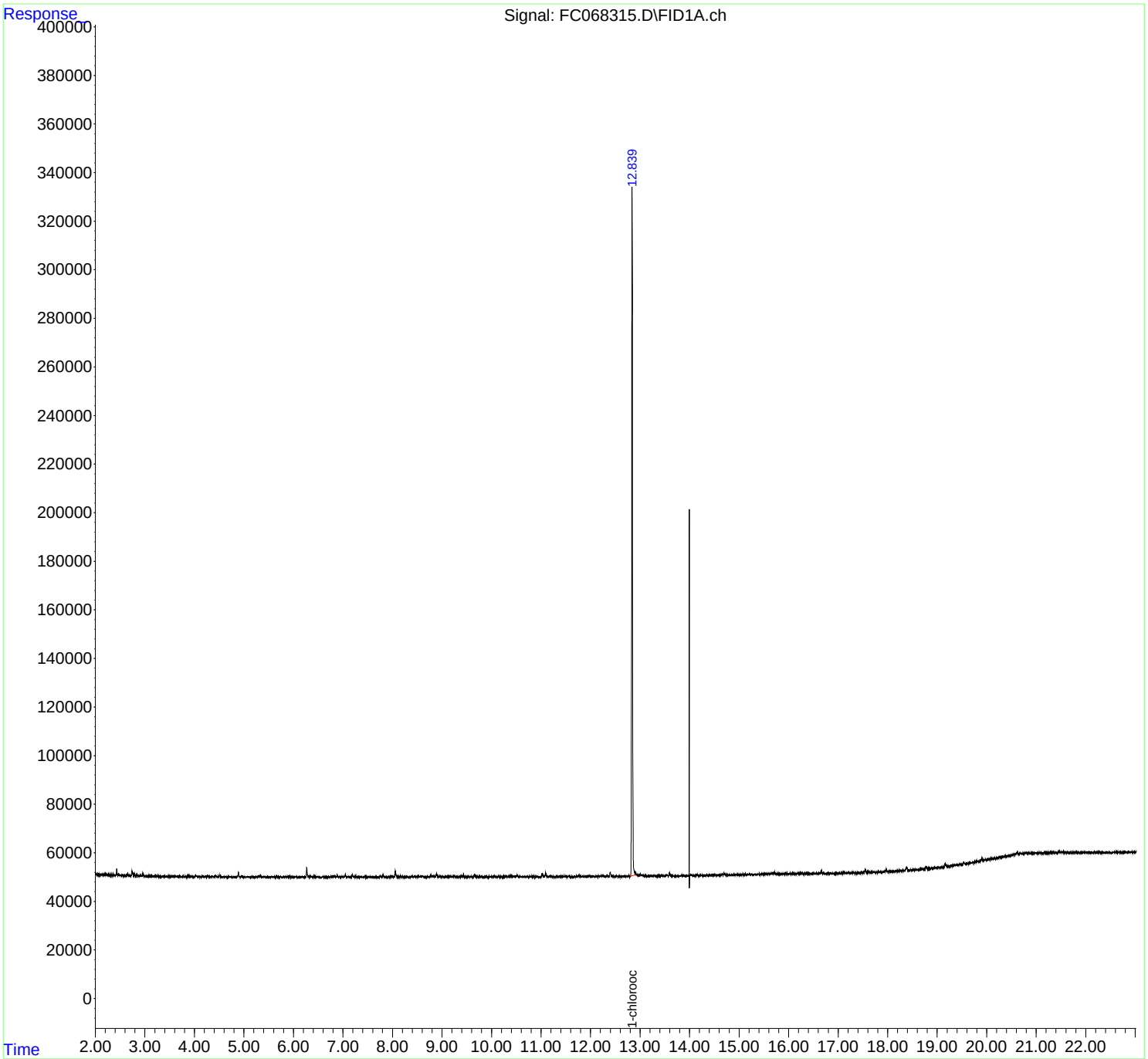
(f)=RT Delta > 1/2 Window (m)=manual int.

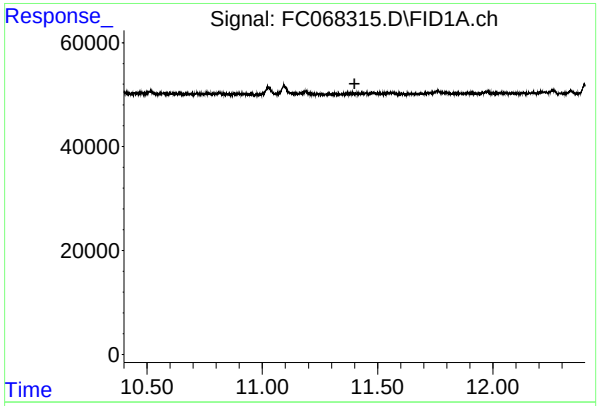
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068315.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 15:53
Operator : YP/AJ
Sample : Q1421-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Mar 05 04:44:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

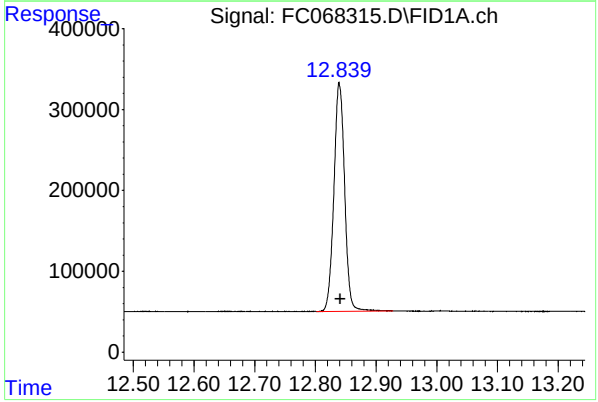




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF02-01



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 3469736
Conc: 30.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068315.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 15:53
Sample : Q1421-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.359	2.305	2.395	BV	237	2872	0.08%	0.035%
2	2.431	2.395	2.458	PV	2775	23169	0.66%	0.280%
3	2.472	2.458	2.521	VV	707	7201	0.20%	0.087%
4	2.523	2.521	2.549	VV	108	1024	0.03%	0.012%
5	2.558	2.549	2.580	VV	79	889	0.03%	0.011%
6	2.592	2.580	2.625	VV	79	996	0.03%	0.012%
7	2.633	2.625	2.641	PV	52	750	0.02%	0.009%
8	2.655	2.641	2.705	VV	710	8305	0.23%	0.100%
9	2.741	2.705	2.774	VV	1995	28650	0.81%	0.346%
10	2.788	2.774	2.815	VV	899	9927	0.28%	0.120%
11	2.839	2.815	2.901	VV	836	12296	0.35%	0.148%
12	2.917	2.901	2.938	VV	173	3196	0.09%	0.039%
13	2.961	2.938	3.015	VV	1363	15434	0.44%	0.186%
14	3.022	3.015	3.035	VV	113	952	0.03%	0.011%
15	3.064	3.035	3.091	PV	156	2090	0.06%	0.025%
16	3.094	3.091	3.149	VV	114	1475	0.04%	0.018%
17	3.158	3.149	3.187	VV	94	1109	0.03%	0.013%
18	3.208	3.187	3.272	VV	237	4954	0.14%	0.060%
19	3.283	3.272	3.390	PV	134	2816	0.08%	0.034%
20	3.406	3.390	3.454	VV	133	1952	0.06%	0.024%
21	3.463	3.454	3.488	VV	135	1496	0.04%	0.018%
22	3.499	3.488	3.511	VV	157	1494	0.04%	0.018%
23	3.525	3.511	3.555	VV	189	2310	0.07%	0.028%
24	3.577	3.555	3.661	PV	153	5585	0.16%	0.067%
25	3.694	3.661	3.757	VV	269	8291	0.23%	0.100%
26	3.775	3.757	3.824	VV	331	4696	0.13%	0.057%
27	3.838	3.824	3.855	PV	125	1391	0.04%	0.017%
28	3.866	3.855	3.880	VV	435	3795	0.11%	0.046%
29	3.894	3.880	3.941	VV	496	6298	0.18%	0.076%
30	3.960	3.941	3.978	VV	151	1969	0.06%	0.024%
31	4.028	3.978	4.065	VV	746	13642	0.39%	0.165%
32	4.095	4.065	4.138	VV	183	4229	0.12%	0.051%
33	4.180	4.138	4.201	VV	222	5122	0.14%	0.062%
34	4.210	4.201	4.238	VV	156	2989	0.08%	0.036%
35	4.263	4.238	4.291	VV	601	8561	0.24%	0.103%
36	4.301	4.291	4.342	VV	386	6062	0.17%	0.073%

rteres

37	4.364	4.342	4.391	VV	441	7072	0.20%	0.085%
38	4.428	4.391	4.452	VV	713	11728	0.33%	0.142%
39	4.484	4.452	4.497	VV	463	7647	0.22%	0.092%
40	4.513	4.497	4.553	VV	803	10667	0.30%	0.129%
41	4.576	4.553	4.588	VV	128	1930	0.05%	0.023%
42	4.601	4.588	4.667	VV	171	5381	0.15%	0.065%
43	4.677	4.667	4.690	VV	168	1807	0.05%	0.022%
44	4.709	4.690	4.767	VV	184	4763	0.13%	0.058%
45	4.793	4.767	4.847	PV	172	4447	0.13%	0.054%
46	4.890	4.847	4.925	VV	2101	27059	0.77%	0.327%
47	4.947	4.925	4.963	VV	418	5375	0.15%	0.065%
48	4.974	4.963	5.031	VV	262	4142	0.12%	0.050%
49	5.058	5.031	5.071	PV	153	2082	0.06%	0.025%
50	5.079	5.071	5.108	VV	155	2264	0.06%	0.027%
51	5.122	5.108	5.142	VV	137	1692	0.05%	0.020%
52	5.164	5.142	5.201	VV	191	4342	0.12%	0.052%
53	5.207	5.201	5.231	VV	159	1981	0.06%	0.024%
54	5.238	5.231	5.278	VV	136	3386	0.10%	0.041%
55	5.294	5.278	5.315	VV	429	6188	0.18%	0.075%
56	5.332	5.315	5.378	VV	767	11297	0.32%	0.136%
57	5.391	5.378	5.428	VV	195	3519	0.10%	0.042%
58	5.434	5.428	5.446	VV	124	1021	0.03%	0.012%
59	5.471	5.446	5.508	VV	223	4599	0.13%	0.056%
60	5.515	5.508	5.534	VV	107	1158	0.03%	0.014%
61	5.542	5.534	5.553	VV	111	880	0.02%	0.011%
62	5.582	5.553	5.615	VV	200	4655	0.13%	0.056%
63	5.621	5.615	5.645	VV	153	2064	0.06%	0.025%
64	5.658	5.645	5.695	VV	156	2620	0.07%	0.032%
65	5.744	5.695	5.777	VV	305	5321	0.15%	0.064%
66	5.787	5.777	5.815	VV	152	2134	0.06%	0.026%
67	5.842	5.815	5.871	VV	286	5728	0.16%	0.069%
68	5.887	5.871	5.910	VV	271	4561	0.13%	0.055%
69	5.929	5.910	5.974	VV	371	7872	0.22%	0.095%
70	5.992	5.974	6.028	VV	287	5964	0.17%	0.072%
71	6.060	6.028	6.123	VV	276	6713	0.19%	0.081%
72	6.191	6.123	6.208	VV	154	4787	0.14%	0.058%
73	6.215	6.208	6.240	VV	160	2007	0.06%	0.024%
74	6.270	6.240	6.335	VV	3979	53432	1.51%	0.645%
75	6.351	6.335	6.369	VV	509	6549	0.19%	0.079%
76	6.386	6.369	6.400	VV	262	3766	0.11%	0.045%
77	6.418	6.400	6.441	VV	615	8111	0.23%	0.098%
78	6.451	6.441	6.473	VV	242	3442	0.10%	0.042%
79	6.489	6.473	6.518	VV	396	5193	0.15%	0.063%
80	6.530	6.518	6.555	VV	124	2108	0.06%	0.025%
81	6.584	6.555	6.620	PV	172	3494	0.10%	0.042%
82	6.635	6.620	6.643	PV	194	1420	0.04%	0.017%
83	6.652	6.643	6.691	VV	200	3213	0.09%	0.039%
84	6.709	6.691	6.739	VV	403	5435	0.15%	0.066%
85	6.759	6.739	6.795	VV	441	8722	0.25%	0.105%
86	6.809	6.795	6.853	VV	423	9161	0.26%	0.111%
87	6.887	6.853	6.928	VV	676	12580	0.36%	0.152%
88	6.931	6.928	6.950	VV	202	1472	0.04%	0.018%
89	6.965	6.950	6.974	VV	212	1945	0.06%	0.023%

rteres

90	6.990	6.974	7.025	VV	216	4092	0.12%	0.049%
91	7.049	7.025	7.076	VV	1400	16764	0.47%	0.202%
92	7.109	7.076	7.145	VV	288	7106	0.20%	0.086%
93	7.190	7.145	7.236	VV	888	19105	0.54%	0.231%
94	7.249	7.236	7.264	VV	364	3859	0.11%	0.047%
95	7.281	7.264	7.306	VV	270	4594	0.13%	0.055%
96	7.314	7.306	7.323	VV	100	767	0.02%	0.009%
97	7.342	7.323	7.388	VV	164	3417	0.10%	0.041%
98	7.402	7.388	7.428	VV	150	2046	0.06%	0.025%
99	7.448	7.428	7.478	VV	528	7310	0.21%	0.088%
100	7.498	7.478	7.508	VV	144	2055	0.06%	0.025%
101	7.550	7.508	7.568	VV	256	5838	0.17%	0.070%
102	7.608	7.568	7.631	VV	274	6032	0.17%	0.073%
103	7.644	7.631	7.659	VV	229	2612	0.07%	0.032%
104	7.668	7.659	7.701	VV	156	2929	0.08%	0.035%
105	7.710	7.701	7.735	VV	210	2401	0.07%	0.029%
106	7.755	7.735	7.788	VV	706	9288	0.26%	0.112%
107	7.810	7.788	7.888	VV	1094	17074	0.48%	0.206%
108	7.911	7.888	7.947	VV	259	5000	0.14%	0.060%
109	7.969	7.947	8.031	VV	414	10674	0.30%	0.129%
110	8.059	8.031	8.134	VV	2696	44317	1.25%	0.535%
111	8.156	8.134	8.235	VV	383	14128	0.40%	0.171%
112	8.252	8.235	8.267	VV	237	2991	0.08%	0.036%
113	8.289	8.267	8.312	VV	319	4292	0.12%	0.052%
114	8.339	8.312	8.352	PV	119	1463	0.04%	0.018%
115	8.405	8.352	8.472	VV	416	17409	0.49%	0.210%
116	8.518	8.472	8.535	VV	373	10254	0.29%	0.124%
117	8.545	8.535	8.578	VV	312	7416	0.21%	0.090%
118	8.603	8.578	8.639	VV	493	12045	0.34%	0.145%
119	8.656	8.639	8.691	VV	270	4696	0.13%	0.057%
120	8.706	8.691	8.727	VV	315	3736	0.11%	0.045%
121	8.777	8.727	8.796	VV	1013	16087	0.46%	0.194%
122	8.812	8.796	8.860	VV	603	15636	0.44%	0.189%
123	8.891	8.860	8.944	VV	1345	28153	0.80%	0.340%
124	8.962	8.944	9.001	VV	434	8036	0.23%	0.097%
125	9.011	9.001	9.048	VV	328	5039	0.14%	0.061%
126	9.060	9.048	9.104	VV	248	6585	0.19%	0.080%
127	9.115	9.104	9.148	VV	261	5957	0.17%	0.072%
128	9.176	9.148	9.216	VV	422	10291	0.29%	0.124%
129	9.243	9.216	9.275	VV	620	11132	0.31%	0.134%
130	9.294	9.275	9.328	VV	285	5710	0.16%	0.069%
131	9.335	9.328	9.365	VV	204	2560	0.07%	0.031%
132	9.387	9.365	9.411	VV	362	6820	0.19%	0.082%
133	9.434	9.411	9.518	VV	769	15358	0.43%	0.185%
134	9.528	9.518	9.554	VV	164	2369	0.07%	0.029%
135	9.580	9.554	9.628	VV	292	7125	0.20%	0.086%
136	9.655	9.628	9.711	VV	1123	20800	0.59%	0.251%
137	9.728	9.711	9.752	VV	230	4967	0.14%	0.060%
138	9.767	9.752	9.781	VV	169	2695	0.08%	0.033%
139	9.803	9.781	9.874	VV	235	6123	0.17%	0.074%
140	9.933	9.874	9.943	VV	202	4472	0.13%	0.054%
141	9.965	9.943	10.011	VV	262	6608	0.19%	0.080%

rteres

142	10.043	10.011	10.063	VV	375	8014	0.23%	0.097%
143	10.081	10.063	10.105	VV	323	5737	0.16%	0.069%
144	10.135	10.105	10.152	VV	267	5749	0.16%	0.069%
145	10.161	10.152	10.198	VV	172	3844	0.11%	0.046%
146	10.211	10.198	10.228	VV	133	2330	0.07%	0.028%
147	10.254	10.228	10.264	VV	264	3996	0.11%	0.048%
148	10.287	10.264	10.308	VV	256	4785	0.14%	0.058%
149	10.333	10.308	10.363	VV	353	8182	0.23%	0.099%
150	10.394	10.363	10.429	VV	674	14673	0.42%	0.177%
151	10.447	10.429	10.489	VV	334	9946	0.28%	0.120%
152	10.516	10.489	10.555	VV	718	13472	0.38%	0.163%
153	10.568	10.555	10.591	VV	300	4947	0.14%	0.060%
154	10.601	10.591	10.626	VV	280	4380	0.12%	0.053%
155	10.675	10.626	10.700	VV	218	7057	0.20%	0.085%
156	10.717	10.700	10.745	VV	273	4765	0.13%	0.058%
157	10.760	10.745	10.795	VV	240	5758	0.16%	0.070%
158	10.812	10.795	10.835	VV	329	5201	0.15%	0.063%
159	10.845	10.835	10.865	VV	180	2269	0.06%	0.027%
160	10.896	10.865	10.945	VV	212	6327	0.18%	0.076%
161	10.957	10.945	10.967	VV	109	721	0.02%	0.009%
162	10.978	10.967	10.992	VV	102	855	0.02%	0.010%
163	11.025	10.992	11.058	PV	1417	23590	0.67%	0.285%
164	11.094	11.058	11.154	VV	1789	33396	0.94%	0.403%
165	11.188	11.154	11.267	VV	624	14423	0.41%	0.174%
166	11.318	11.267	11.368	VV	173	5240	0.15%	0.063%
167	11.419	11.368	11.431	VV	217	6424	0.18%	0.078%
168	11.451	11.431	11.462	VV	265	3541	0.10%	0.043%
169	11.480	11.462	11.514	VV	330	6969	0.20%	0.084%
170	11.525	11.514	11.544	VV	222	3588	0.10%	0.043%
171	11.560	11.544	11.625	VV	299	7595	0.21%	0.092%
172	11.661	11.625	11.670	VV	173	3076	0.09%	0.037%
173	11.761	11.670	11.788	VV	725	21967	0.62%	0.265%
174	11.801	11.788	11.828	VV	291	5209	0.15%	0.063%
175	11.834	11.828	11.870	VV	185	3972	0.11%	0.048%
176	11.892	11.870	11.902	VV	270	3977	0.11%	0.048%
177	11.908	11.902	11.937	VV	265	3602	0.10%	0.044%
178	11.977	11.937	12.009	VV	504	12000	0.34%	0.145%
179	12.033	12.009	12.115	VV	297	10895	0.31%	0.132%
180	12.136	12.115	12.161	VV	243	4938	0.14%	0.060%
181	12.174	12.161	12.187	VV	294	3442	0.10%	0.042%
182	12.208	12.187	12.241	VV	406	9782	0.28%	0.118%
183	12.260	12.241	12.305	VV	766	12273	0.35%	0.148%
184	12.337	12.305	12.368	VV	676	10167	0.29%	0.123%
185	12.398	12.368	12.485	VV	1769	30720	0.87%	0.371%
186	12.518	12.485	12.565	VV	282	5977	0.17%	0.072%
187	12.581	12.565	12.600	VV	109	1334	0.04%	0.016%
188	12.615	12.600	12.621	PV	93	692	0.02%	0.008%
189	12.650	12.621	12.705	VV	213	7065	0.20%	0.085%
190	12.725	12.705	12.735	VV	164	2124	0.06%	0.026%
191	12.840	12.735	12.982	VV	279601	3535454	100.00%	42.695%
192	13.007	12.982	13.041	VV	835	21222	0.60%	0.256%
193	13.062	13.041	13.118	VV	512	17290	0.49%	0.209%
194	13.125	13.118	13.149	VV	275	4289	0.12%	0.052%

rteres

195	13.162	13.149	13.185	VV	197	3555	0.10%	0.043%
196	13.202	13.185	13.239	VV	299	7969	0.23%	0.096%
197	13.280	13.239	13.371	VV	401	17889	0.51%	0.216%
198	13.393	13.371	13.411	VV	232	4322	0.12%	0.052%
199	13.445	13.411	13.487	VV	312	9282	0.26%	0.112%
200	13.542	13.487	13.571	VV	553	13520	0.38%	0.163%
201	13.594	13.571	13.755	VV	1406	30740	0.87%	0.371%
202	13.761	13.755	13.779	PV	69	714	0.02%	0.009%
203	13.848	13.779	13.882	VV	188	8274	0.23%	0.100%
204	13.889	13.882	13.905	VV	212	2001	0.06%	0.024%
205	13.913	13.905	13.965	VV	161	2773	0.08%	0.033%
206	13.995	13.965	14.109	VV	54156	119785	3.39%	1.447%
207	14.154	14.109	14.191	VV	345	8775	0.25%	0.106%
208	14.223	14.191	14.245	VV	241	5499	0.16%	0.066%
209	14.311	14.245	14.335	VV	223	8054	0.23%	0.097%
210	14.356	14.335	14.428	VV	202	9449	0.27%	0.114%
211	14.463	14.428	14.485	VV	245	6028	0.17%	0.073%
212	14.504	14.485	14.528	VV	193	3935	0.11%	0.048%
213	14.548	14.528	14.619	VV	198	8333	0.24%	0.101%
214	14.652	14.619	14.670	VV	474	8681	0.25%	0.105%
215	14.695	14.670	14.735	VV	988	19368	0.55%	0.234%
216	14.751	14.735	14.815	VV	253	6497	0.18%	0.078%
217	14.895	14.815	15.037	PV	281	19624	0.56%	0.237%
218	15.135	15.037	15.185	VV	275	18005	0.51%	0.217%
219	15.216	15.185	15.238	VV	403	8789	0.25%	0.106%
220	15.259	15.238	15.305	VV	358	9749	0.28%	0.118%
221	15.326	15.305	15.361	VV	183	5907	0.17%	0.071%
222	15.392	15.361	15.427	VV	331	10076	0.28%	0.122%
223	15.450	15.427	15.471	VV	317	6821	0.19%	0.082%
224	15.575	15.471	15.638	VV	409	28891	0.82%	0.349%
225	15.715	15.638	15.837	VV	1083	44187	1.25%	0.534%
226	15.898	15.837	15.981	VV	345	20614	0.58%	0.249%
227	16.011	15.981	16.057	VV	260	11080	0.31%	0.134%
228	16.078	16.057	16.128	VV	319	11249	0.32%	0.136%
229	16.196	16.128	16.215	VV	414	13071	0.37%	0.158%
230	16.233	16.215	16.328	VV	307	15366	0.43%	0.186%
231	16.366	16.328	16.472	VV	278	15071	0.43%	0.182%
232	16.511	16.472	16.601	VV	270	14417	0.41%	0.174%
233	16.663	16.601	16.745	VV	964	27320	0.77%	0.330%
234	16.753	16.745	16.791	VV	103	2208	0.06%	0.027%
235	16.841	16.791	16.921	VV	152	6803	0.19%	0.082%
236	16.988	16.921	17.038	VV	148	6382	0.18%	0.077%
237	17.113	17.038	17.186	PV	744	18537	0.52%	0.224%
238	17.240	17.186	17.328	VV	177	7340	0.21%	0.089%
239	17.386	17.328	17.441	VV	159	5436	0.15%	0.066%
240	17.549	17.441	17.596	VV	1418	29456	0.83%	0.356%
241	17.623	17.596	17.655	VV	131	3618	0.10%	0.044%
242	17.711	17.655	17.780	VV	159	7809	0.22%	0.094%
243	17.831	17.780	17.875	PV	236	6377	0.18%	0.077%
244	17.972	17.875	18.067	VV	1107	26154	0.74%	0.316%
245	18.242	18.067	18.315	PV	128	7832	0.22%	0.095%
246	18.380	18.315	18.437	PV	1549	30928	0.87%	0.373%

rteres

247	18.779	18.437	18.833	PV	1048	18417	0.52%	0.222%
248	18.962	18.833	18.988	PV	202	8202	0.23%	0.099%
249	19.165	18.988	19.215	VV	1397	43388	1.23%	0.524%
250	19.467	19.215	19.495	VV	631	59942	1.70%	0.724%
251	19.540	19.495	19.578	VV	1186	34210	0.97%	0.413%
252	19.805	19.578	19.835	VV	1136	120319	3.40%	1.453%
253	19.906	19.835	19.948	VV	1990	92040	2.60%	1.111%
254	19.969	19.948	19.984	VV	1483	30381	0.86%	0.367%
255	20.262	19.984	20.301	VV	2073	312390	8.84%	3.772%
256	20.432	20.301	20.468	VV	2353	208034	5.88%	2.512%
257	20.617	20.468	20.651	VV	3097	277810	7.86%	3.355%
258	20.769	20.651	20.817	VV	2638	255660	7.23%	3.087%
259	20.950	20.817	20.988	VV	2380	240381	6.80%	2.903%
260	21.023	20.988	21.100	VV	2229	142765	4.04%	1.724%
261	21.367	21.100	21.411	VV	1726	339106	9.59%	4.095%
262	21.472	21.411	21.514	VV	1874	102982	2.91%	1.244%
263	21.537	21.514	21.665	VV	1500	117652	3.33%	1.421%
264	21.739	21.665	21.877	VV	1091	121113	3.43%	1.463%
265	21.928	21.877	22.001	VV	671	42817	1.21%	0.517%
266	22.017	22.001	22.045	VV	461	10584	0.30%	0.128%
267	22.066	22.045	22.098	VV	380	10286	0.29%	0.124%
268	22.131	22.098	22.157	VV	245	8156	0.23%	0.098%
269	22.174	22.157	22.205	VV	153	3231	0.09%	0.039%

Sum of corrected areas: 8280782

Aliphatic EPH 021125.M Fri Feb 28 01:16:26 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF02-01		SDG No.:	Q1421	
Lab Sample ID:	Q1421-10		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
FD049124.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.81	J	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	14.1	J	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	41.8	J	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	87.2		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.0		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.2		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.0		40 - 140	92%	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:	Q1421-10	Acq On:	27 Feb 2025 15:53
Client Sample ID:	P001-CLAY-CF02-01	Operator:	YP/AJ
Data file:	FD049124.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	4.076	5.794	779914	4.904	200	ug/ml
Aromatic C12-C16	5.795	8.397	1134516	7.049	300	ug/ml
Aromatic C16-C21	8.398	12.661	3206255	20.907	500	ug/ml
Aromatic C21-C36	12.662	18.071	6242405	43.618	800	ug/ml
Aromatic EPH	4.076	18.071	11363090	76.479		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	7587165	53.02		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	4761886	54.17		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	7448477	46.04		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049124.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 15:53
Operator : YP/AJ
Sample : Q1421-10
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Feb 28 01:28:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	7587165	53.017 ug/ml
Spiked Amount 50.000		Recovery = 106.03%	
6) S 2-Flurobiphenyl (SURR)	8.202	4761886	54.167 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 108.33%	
11) S ortho-Terphenyl (SURR)	11.236	7448477	46.042 ug/ml
Spiked Amount 50.000		Recovery = 92.08%	
Target Compounds			

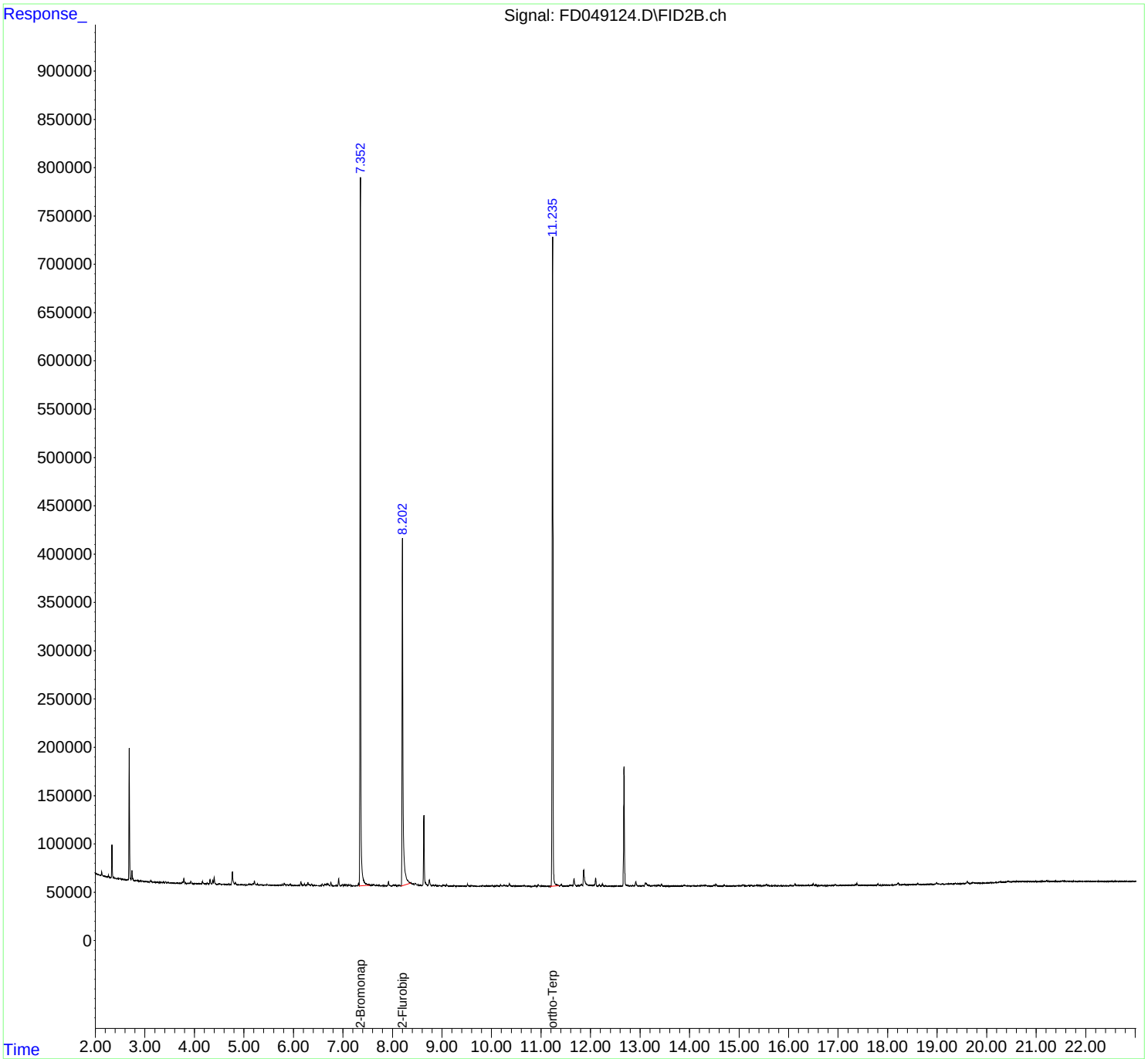
(f)=RT Delta > 1/2 Window (m)=manual int.

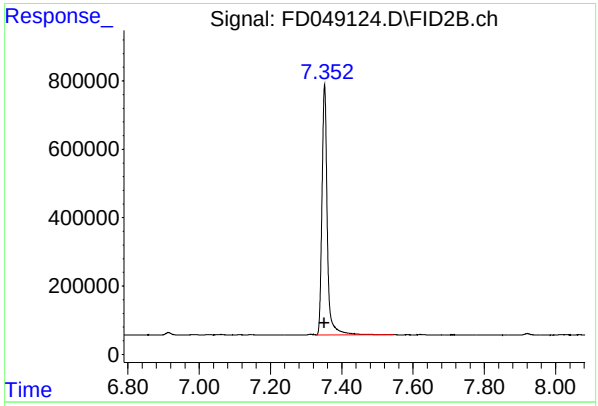
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049124.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 15:53
Operator : YP/AJ
Sample : Q1421-10
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF02-01

Integration File: autoint1.e
Quant Time: Feb 28 01:28:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

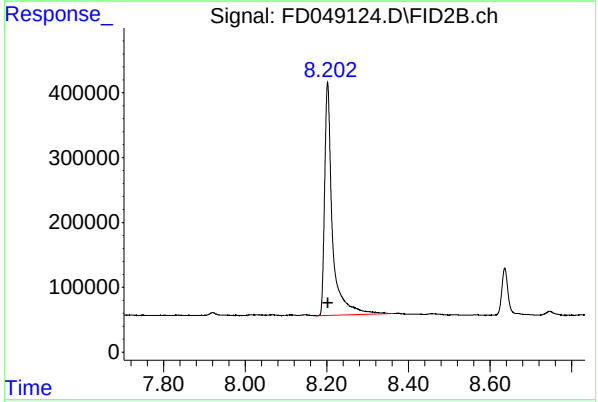




#4 2-Bromonaphthalene (SURR)

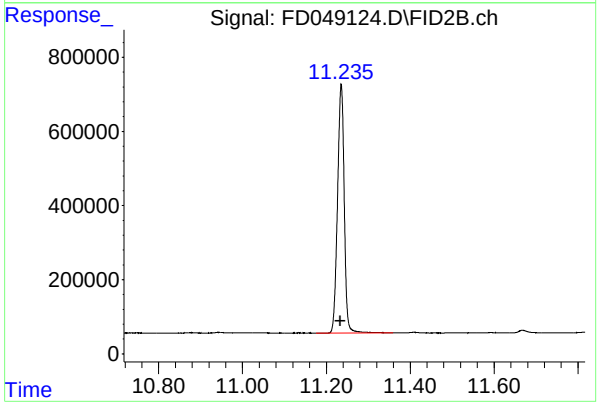
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 7587165
Conc: 53.02 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF02-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 4761886
Conc: 54.17 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.002 min
Response: 7448477
Conc: 46.04 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049124.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 15:53
Sample : Q1421-10
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.053	4.042	4.069	BV	296	1807	0.02%	0.006%
2	4.090	4.082	4.121	VV	266	4291	0.06%	0.014%
3	4.161	4.144	4.204	VV	2444	38820	0.51%	0.122%
4	4.209	4.204	4.214	VV	453	1996	0.03%	0.006%
5	4.216	4.214	4.239	VV	444	3584	0.05%	0.011%
6	4.261	4.239	4.295	VV	1020	14121	0.18%	0.045%
7	4.315	4.295	4.349	VV	4875	56474	0.74%	0.178%
8	4.370	4.349	4.384	VV	4121	43083	0.56%	0.136%
9	4.399	4.384	4.459	VV	7263	86303	1.13%	0.272%
10	4.464	4.459	4.476	VV	255	1993	0.03%	0.006%
11	4.511	4.476	4.541	VV	902	17508	0.23%	0.055%
12	4.545	4.541	4.559	VV	121	1031	0.01%	0.003%
13	4.582	4.565	4.588	VV	481	4320	0.06%	0.014%
14	4.592	4.588	4.598	VV	465	2316	0.03%	0.007%
15	4.604	4.598	4.610	VV	308	2253	0.03%	0.007%
16	4.612	4.610	4.668	VV	269	2617	0.03%	0.008%
17	4.692	4.668	4.721	PV	747	9544	0.12%	0.030%
18	4.768	4.721	4.811	VV	13616	191154	2.50%	0.603%
19	4.827	4.811	4.876	VV	2715	37323	0.49%	0.118%
20	4.889	4.876	4.895	VV	178	1506	0.02%	0.005%
21	4.966	4.920	5.027	VV	638	16961	0.22%	0.053%
22	5.030	5.027	5.048	VV	240	1688	0.02%	0.005%
23	5.064	5.048	5.070	PV	245	1945	0.03%	0.006%
24	5.100	5.070	5.114	VV	944	16681	0.22%	0.053%
25	5.118	5.114	5.126	VV	824	5242	0.07%	0.017%
26	5.138	5.126	5.165	VV	1019	16399	0.21%	0.052%
27	5.182	5.165	5.196	VV	1846	23054	0.30%	0.073%
28	5.212	5.196	5.238	VV	4314	52530	0.69%	0.166%
29	5.246	5.238	5.252	VV	656	4696	0.06%	0.015%
30	5.269	5.252	5.304	VV	1409	23538	0.31%	0.074%
31	5.325	5.304	5.359	VV	546	13802	0.18%	0.044%
32	5.363	5.359	5.369	VV	472	2105	0.03%	0.007%
33	5.373	5.369	5.383	VV	302	1781	0.02%	0.006%
34	5.395	5.383	5.405	VV	355	3338	0.04%	0.011%
35	5.419	5.405	5.446	VV	448	7051	0.09%	0.022%
36	5.462	5.446	5.502	VV	856	15373	0.20%	0.048%

rteres

37	5.521	5.502	5.544	VV	404	6845	0.09%	0.022%
38	5.560	5.554	5.571	VV	315	1676	0.02%	0.005%
39	5.581	5.571	5.600	VV	247	2123	0.03%	0.007%
40	5.612	5.600	5.616	VV	305	1760	0.02%	0.006%
41	5.631	5.616	5.642	VV	430	4674	0.06%	0.015%
42	5.653	5.642	5.662	VV	378	3836	0.05%	0.012%
43	5.684	5.662	5.700	VV	398	5980	0.08%	0.019%
44	5.717	5.700	5.723	PV	519	4678	0.06%	0.015%
45	5.728	5.723	5.752	VV	638	7445	0.10%	0.023%
46	5.772	5.752	5.794	VV	1028	14476	0.19%	0.046%
47	5.812	5.794	5.853	VV	2501	39863	0.52%	0.126%
48	5.871	5.853	5.899	VV	1136	19432	0.25%	0.061%
49	5.904	5.899	5.912	VV	568	3904	0.05%	0.012%
50	5.938	5.912	6.000	VV	1291	33281	0.44%	0.105%
51	6.007	6.000	6.029	VV	405	4277	0.06%	0.013%
52	6.050	6.037	6.057	VV	314	2588	0.03%	0.008%
53	6.063	6.057	6.081	VV	300	3973	0.05%	0.013%
54	6.094	6.081	6.110	VV	317	3375	0.04%	0.011%
55	6.151	6.121	6.201	VV	4172	64538	0.85%	0.203%
56	6.221	6.201	6.243	VV	1947	24482	0.32%	0.077%
57	6.266	6.243	6.277	VV	1297	16271	0.21%	0.051%
58	6.293	6.277	6.314	VV	3504	44630	0.58%	0.141%
59	6.322	6.314	6.346	VV	1046	13645	0.18%	0.043%
60	6.367	6.346	6.401	VV	1878	27004	0.35%	0.085%
61	6.413	6.401	6.448	VV	403	5815	0.08%	0.018%
62	6.457	6.448	6.475	VV	328	3871	0.05%	0.012%
63	6.502	6.475	6.523	VV	452	6047	0.08%	0.019%
64	6.530	6.523	6.538	VV	308	1870	0.02%	0.006%
65	6.550	6.538	6.559	VV	379	3167	0.04%	0.010%
66	6.580	6.559	6.612	VV	1955	25483	0.33%	0.080%
67	6.633	6.612	6.654	VV	1742	31512	0.41%	0.099%
68	6.679	6.654	6.692	VV	2283	36850	0.48%	0.116%
69	6.703	6.692	6.734	VV	1684	23867	0.31%	0.075%
70	6.758	6.734	6.788	VV	3769	48956	0.64%	0.154%
71	6.792	6.788	6.801	VV	399	1690	0.02%	0.005%
72	6.831	6.814	6.837	VV	367	3336	0.04%	0.011%
73	6.856	6.837	6.876	VV	805	9928	0.13%	0.031%
74	6.913	6.876	6.957	VV	7719	90485	1.19%	0.285%
75	6.987	6.957	7.010	VV	1237	25196	0.33%	0.079%
76	7.025	7.010	7.044	VV	1451	20181	0.26%	0.064%
77	7.062	7.044	7.087	VV	1823	27134	0.36%	0.086%
78	7.094	7.087	7.102	VV	865	5807	0.08%	0.018%
79	7.115	7.102	7.132	VV	1193	14860	0.19%	0.047%
80	7.146	7.132	7.172	VV	1507	17220	0.23%	0.054%
81	7.180	7.172	7.204	VV	238	3865	0.05%	0.012%
82	7.210	7.204	7.236	VV	447	3983	0.05%	0.013%
83	7.265	7.244	7.275	VV	378	3969	0.05%	0.013%
84	7.279	7.275	7.286	VV	260	1206	0.02%	0.004%
85	7.314	7.286	7.328	VV	2769	30003	0.39%	0.095%
86	7.352	7.328	7.502	VV	732923	7634924	100.00%	24.069%
87	7.506	7.502	7.514	VV	1626	10982	0.14%	0.035%
88	7.518	7.514	7.566	VV	1462	33053	0.43%	0.104%
89	7.585	7.566	7.604	VV	1091	19268	0.25%	0.061%

rteres

90	7.621	7.604	7.666	VV	1906	35475	0.46%	0.112%
91	7.680	7.666	7.694	VV	924	11042	0.14%	0.035%
92	7.709	7.694	7.744	VV	1015	20219	0.26%	0.064%
93	7.747	7.744	7.775	VV	477	6418	0.08%	0.020%
94	7.780	7.775	7.784	VV	315	1461	0.02%	0.005%
95	7.792	7.784	7.797	VV	435	2676	0.04%	0.008%
96	7.803	7.797	7.821	VV	568	4582	0.06%	0.014%
97	7.837	7.821	7.855	VV	675	8683	0.11%	0.027%
98	7.863	7.855	7.888	VV	497	7166	0.09%	0.023%
99	7.894	7.888	7.900	VV	419	2888	0.04%	0.009%
100	7.920	7.900	7.992	VV	4735	69205	0.91%	0.218%
101	8.017	7.992	8.024	VV	1330	14220	0.19%	0.045%
102	8.029	8.024	8.052	VV	1211	16634	0.22%	0.052%
103	8.068	8.052	8.089	VV	1202	16646	0.22%	0.052%
104	8.112	8.089	8.132	VV	1114	16564	0.22%	0.052%
105	8.147	8.132	8.177	VV	1357	16171	0.21%	0.051%
106	8.202	8.177	8.363	VV	360096	4949122	64.82%	15.602%
107	8.375	8.363	8.404	VV	3596	73599	0.96%	0.232%
108	8.409	8.404	8.419	VV	2509	21165	0.28%	0.067%
109	8.427	8.419	8.440	VV	2271	27987	0.37%	0.088%
110	8.458	8.440	8.504	VV	3155	80555	1.06%	0.254%
111	8.516	8.504	8.529	VV	1546	19880	0.26%	0.063%
112	8.568	8.529	8.601	VV	1335	39457	0.52%	0.124%
113	8.636	8.601	8.685	VV	73403	815741	10.68%	2.572%
114	8.688	8.685	8.719	VV	2026	27881	0.37%	0.088%
115	8.746	8.719	8.785	VV	6838	115342	1.51%	0.364%
116	8.791	8.785	8.805	VV	815	8885	0.12%	0.028%
117	8.823	8.805	8.850	VV	1629	27455	0.36%	0.087%
118	8.870	8.850	8.897	VV	1278	24642	0.32%	0.078%
119	8.902	8.897	8.916	VV	675	6344	0.08%	0.020%
120	8.929	8.916	8.933	VV	669	6140	0.08%	0.019%
121	8.942	8.933	8.961	VV	770	11034	0.14%	0.035%
122	8.965	8.961	8.970	VV	456	2228	0.03%	0.007%
123	8.975	8.970	8.985	VV	453	3279	0.04%	0.010%
124	9.021	8.985	9.030	VV	1181	18803	0.25%	0.059%
125	9.040	9.030	9.075	VV	1098	18233	0.24%	0.057%
126	9.097	9.075	9.122	VV	1796	26990	0.35%	0.085%
127	9.127	9.122	9.150	VV	420	4651	0.06%	0.015%
128	9.161	9.150	9.165	VV	320	2042	0.03%	0.006%
129	9.176	9.165	9.189	VV	354	4885	0.06%	0.015%
130	9.196	9.189	9.226	VV	397	5206	0.07%	0.016%
131	9.246	9.226	9.270	PV	1006	13356	0.17%	0.042%
132	9.280	9.270	9.285	VV	220	1385	0.02%	0.004%
133	9.296	9.285	9.302	VV	599	3237	0.04%	0.010%
134	9.307	9.302	9.325	VV	466	5334	0.07%	0.017%
135	9.344	9.325	9.360	VV	512	6964	0.09%	0.022%
136	9.389	9.360	9.397	VV	479	7835	0.10%	0.025%
137	9.400	9.397	9.409	VV	467	2805	0.04%	0.009%
138	9.414	9.409	9.420	VV	385	1874	0.02%	0.006%
139	9.447	9.420	9.465	VV	550	8640	0.11%	0.027%
140	9.469	9.465	9.482	VV	222	1590	0.02%	0.005%
141	9.491	9.482	9.499	VV	255	1704	0.02%	0.005%

rteres

142	9.517	9.499	9.540	VV	2122	26606	0.35%	0.084%
143	9.547	9.540	9.565	VV	461	5494	0.07%	0.017%
144	9.586	9.565	9.602	VV	832	13495	0.18%	0.043%
145	9.607	9.602	9.626	VV	667	7685	0.10%	0.024%
146	9.630	9.626	9.634	VV	399	1819	0.02%	0.006%
147	9.650	9.634	9.676	VV	595	8406	0.11%	0.026%
148	9.687	9.676	9.712	VV	386	4405	0.06%	0.014%
149	9.764	9.749	9.769	VV	387	3265	0.04%	0.010%
150	9.784	9.769	9.799	VV	642	7634	0.10%	0.024%
151	9.822	9.799	9.862	VV	1028	19716	0.26%	0.062%
152	9.865	9.862	9.874	VV	279	1653	0.02%	0.005%
153	9.879	9.874	9.881	VV	375	1264	0.02%	0.004%
154	9.889	9.881	9.895	VV	617	4169	0.05%	0.013%
155	9.904	9.895	9.917	VV	839	9202	0.12%	0.029%
156	9.929	9.917	9.946	VV	761	10483	0.14%	0.033%
157	9.955	9.946	9.981	VV	671	11047	0.14%	0.035%
158	9.989	9.981	9.997	VV	627	4745	0.06%	0.015%
159	10.013	9.997	10.036	VV	1231	15268	0.20%	0.048%
160	10.056	10.036	10.065	VV	383	4719	0.06%	0.015%
161	10.070	10.065	10.075	VV	381	2013	0.03%	0.006%
162	10.104	10.075	10.120	VV	1222	17948	0.24%	0.057%
163	10.139	10.120	10.162	VV	910	13308	0.17%	0.042%
164	10.183	10.162	10.205	VV	1473	23772	0.31%	0.075%
165	10.220	10.205	10.232	VV	694	9792	0.13%	0.031%
166	10.257	10.232	10.282	VV	1604	29414	0.39%	0.093%
167	10.292	10.282	10.314	VV	1020	14175	0.19%	0.045%
168	10.326	10.314	10.339	VV	827	11051	0.14%	0.035%
169	10.363	10.339	10.389	VV	2977	45538	0.60%	0.144%
170	10.398	10.389	10.405	VV	544	4520	0.06%	0.014%
171	10.410	10.405	10.443	VV	599	10333	0.14%	0.033%
172	10.456	10.443	10.485	VV	733	13492	0.18%	0.043%
173	10.489	10.485	10.514	VV	630	7554	0.10%	0.024%
174	10.521	10.514	10.538	VV	504	6526	0.09%	0.021%
175	10.543	10.538	10.556	VV	505	4507	0.06%	0.014%
176	10.563	10.556	10.579	VV	481	5582	0.07%	0.018%
177	10.589	10.579	10.596	VV	432	3617	0.05%	0.011%
178	10.604	10.596	10.621	VV	617	7134	0.09%	0.022%
179	10.635	10.621	10.647	VV	796	9594	0.13%	0.030%
180	10.661	10.647	10.681	VV	1462	18617	0.24%	0.059%
181	10.700	10.681	10.715	VV	665	9396	0.12%	0.030%
182	10.722	10.715	10.727	VV	387	2670	0.03%	0.008%
183	10.748	10.727	10.764	VV	525	8597	0.11%	0.027%
184	10.770	10.764	10.784	VV	382	2486	0.03%	0.008%
185	10.803	10.794	10.812	VV	238	1666	0.02%	0.005%
186	10.817	10.812	10.844	PV	160	2817	0.04%	0.009%
187	10.854	10.844	10.859	VV	384	2649	0.03%	0.008%
188	10.878	10.859	10.913	VV	1250	20818	0.27%	0.066%
189	10.943	10.913	10.977	VV	2209	37559	0.49%	0.118%
190	10.993	10.977	11.006	VV	761	11493	0.15%	0.036%
191	11.013	11.006	11.022	VV	707	5982	0.08%	0.019%
192	11.027	11.022	11.035	VV	728	4832	0.06%	0.015%
193	11.041	11.035	11.079	VV	690	12444	0.16%	0.039%
194	11.090	11.079	11.115	VV	421	6350	0.08%	0.020%

rteres

195	11.135	11.115	11.140	VV	571	5454	0.07%	0.017%
196	11.147	11.140	11.153	VV	381	2668	0.03%	0.008%
197	11.159	11.153	11.169	VV	449	3405	0.04%	0.011%
198	11.173	11.169	11.202	VV	330	3877	0.05%	0.012%
199	11.236	11.202	11.310	VV	671781	7472001	97.87%	23.556%
200	11.317	11.310	11.345	VV	1950	32275	0.42%	0.102%
201	11.352	11.345	11.389	VV	1159	25490	0.33%	0.080%
202	11.409	11.389	11.449	VV	2373	42521	0.56%	0.134%
203	11.458	11.449	11.477	VV	575	8365	0.11%	0.026%
204	11.506	11.477	11.515	VV	801	14351	0.19%	0.045%
205	11.523	11.515	11.529	VV	777	6152	0.08%	0.019%
206	11.533	11.529	11.549	VV	714	7664	0.10%	0.024%
207	11.574	11.549	11.580	VV	1254	19417	0.25%	0.061%
208	11.593	11.580	11.612	VV	1496	23790	0.31%	0.075%
209	11.634	11.612	11.644	VV	1251	22217	0.29%	0.070%
210	11.668	11.644	11.722	VV	7963	138081	1.81%	0.435%
211	11.738	11.722	11.748	VV	1219	16046	0.21%	0.051%
212	11.756	11.748	11.769	VV	1170	13116	0.17%	0.041%
213	11.774	11.769	11.783	VV	966	6784	0.09%	0.021%
214	11.814	11.783	11.844	VV	2345	56591	0.74%	0.178%
215	11.864	11.844	11.964	VV	17295	372811	4.88%	1.175%
216	11.968	11.964	11.977	VV	1480	11090	0.15%	0.035%
217	11.981	11.977	11.992	VV	1478	12894	0.17%	0.041%
218	11.997	11.992	12.001	VV	1533	7344	0.10%	0.023%
219	12.015	12.001	12.057	VV	1476	42168	0.55%	0.133%
220	12.103	12.057	12.149	VV	8495	149794	1.96%	0.472%
221	12.179	12.149	12.212	VV	2152	40750	0.53%	0.128%
222	12.241	12.212	12.265	VV	2939	47070	0.62%	0.148%
223	12.271	12.265	12.289	VV	873	10640	0.14%	0.034%
224	12.314	12.289	12.334	VV	1041	20463	0.27%	0.065%
225	12.339	12.334	12.343	VV	570	2751	0.04%	0.009%
226	12.354	12.343	12.360	VV	646	6074	0.08%	0.019%
227	12.362	12.360	12.365	VV	751	1939	0.03%	0.006%
228	12.374	12.365	12.429	VV	787	23865	0.31%	0.075%
229	12.455	12.429	12.477	VV	687	15056	0.20%	0.047%
230	12.495	12.477	12.511	VV	910	14384	0.19%	0.045%
231	12.517	12.511	12.548	VV	970	15276	0.20%	0.048%
232	12.554	12.548	12.575	VV	811	10028	0.13%	0.032%
233	12.581	12.575	12.585	VV	602	3004	0.04%	0.009%
234	12.604	12.585	12.611	VV	964	12174	0.16%	0.038%
235	12.615	12.611	12.622	VV	764	4800	0.06%	0.015%
236	12.638	12.622	12.645	VV	965	10746	0.14%	0.034%
237	12.677	12.645	12.728	VV	124278	1525913	19.99%	4.811%
238	12.741	12.728	12.772	VV	1597	33103	0.43%	0.104%
239	12.776	12.772	12.795	VV	888	10961	0.14%	0.035%
240	12.804	12.795	12.822	VV	974	14594	0.19%	0.046%
241	12.831	12.822	12.844	VV	1029	12417	0.16%	0.039%
242	12.851	12.844	12.856	VV	1247	8312	0.11%	0.026%
243	12.862	12.856	12.887	VV	1103	18057	0.24%	0.057%
244	12.916	12.887	12.981	VV	5365	113669	1.49%	0.358%
245	12.996	12.981	13.010	VV	917	14501	0.19%	0.046%
246	13.051	13.010	13.085	VV	1276	44469	0.58%	0.140%

rteres

247	13.111	13.085	13.164	VV	3834	117559	1.54%	0.371%
248	13.171	13.164	13.212	VV	1746	38920	0.51%	0.123%
249	13.230	13.212	13.246	VV	1179	20705	0.27%	0.065%
250	13.265	13.246	13.286	VV	1254	26410	0.35%	0.083%
251	13.308	13.286	13.324	VV	2013	25347	0.33%	0.080%
252	13.337	13.324	13.355	VV	1376	20628	0.27%	0.065%
253	13.382	13.355	13.411	VV	1933	44746	0.59%	0.141%
254	13.434	13.411	13.460	VV	2909	49165	0.64%	0.155%
255	13.469	13.460	13.529	VV	964	32706	0.43%	0.103%
256	13.535	13.529	13.542	VV	754	5349	0.07%	0.017%
257	13.546	13.542	13.552	VV	721	4150	0.05%	0.013%
258	13.556	13.552	13.562	VV	701	3812	0.05%	0.012%
259	13.568	13.562	13.609	VV	725	16232	0.21%	0.051%
260	13.643	13.609	13.659	VV	821	21617	0.28%	0.068%
261	13.666	13.659	13.671	VV	911	5988	0.08%	0.019%
262	13.679	13.671	13.703	VV	865	15208	0.20%	0.048%
263	13.722	13.703	13.740	VV	879	17395	0.23%	0.055%
264	13.745	13.740	13.754	VV	906	6175	0.08%	0.019%
265	13.769	13.754	13.775	VV	896	10293	0.13%	0.032%
266	13.777	13.775	13.785	VV	926	4620	0.06%	0.015%
267	13.797	13.785	13.807	VV	897	10862	0.14%	0.034%
268	13.816	13.807	13.823	VV	831	7981	0.10%	0.025%
269	13.830	13.823	13.845	VV	975	10301	0.13%	0.032%
270	13.893	13.845	13.935	VV	1643	62734	0.82%	0.198%
271	13.942	13.935	13.954	VV	1109	11319	0.15%	0.036%
272	13.958	13.954	13.982	VV	1054	17380	0.23%	0.055%
273	13.988	13.982	14.006	VV	1256	15135	0.20%	0.048%
274	14.010	14.006	14.018	VV	856	5592	0.07%	0.018%
275	14.053	14.018	14.061	VV	1046	20951	0.27%	0.066%
276	14.082	14.061	14.089	VV	1115	16392	0.21%	0.052%
277	14.093	14.089	14.107	VV	1052	10386	0.14%	0.033%
278	14.117	14.107	14.124	VV	1045	10050	0.13%	0.032%
279	14.127	14.124	14.141	VV	1159	10386	0.14%	0.033%
280	14.154	14.141	14.182	VV	1134	26325	0.34%	0.083%
281	14.192	14.182	14.206	VV	1244	16313	0.21%	0.051%
282	14.212	14.206	14.219	VV	1162	8348	0.11%	0.026%
283	14.246	14.219	14.266	VV	1327	31497	0.41%	0.099%
284	14.289	14.266	14.326	VV	1527	47105	0.62%	0.148%
285	14.335	14.326	14.363	VV	1360	24841	0.33%	0.078%
286	14.369	14.363	14.382	VV	1084	11141	0.15%	0.035%
287	14.392	14.382	14.426	VV	1207	25699	0.34%	0.081%
288	14.433	14.426	14.442	VV	1056	9412	0.12%	0.030%
289	14.450	14.442	14.464	VV	1084	13060	0.17%	0.041%
290	14.494	14.464	14.509	VV	1963	38883	0.51%	0.123%
291	14.534	14.509	14.580	VV	2875	68106	0.89%	0.215%
292	14.586	14.580	14.605	VV	987	13094	0.17%	0.041%
293	14.609	14.605	14.622	VV	1085	9388	0.12%	0.030%
294	14.632	14.622	14.645	VV	869	10872	0.14%	0.034%
295	14.658	14.645	14.673	VV	905	14118	0.18%	0.045%
296	14.698	14.673	14.724	VV	1668	37887	0.50%	0.119%
297	14.734	14.724	14.740	VV	1059	9715	0.13%	0.031%
298	14.742	14.740	14.752	VV	1050	6698	0.09%	0.021%
299	14.759	14.752	14.780	VV	1155	16204	0.21%	0.051%

rteres

300	14.782	14.780	14.821	VV	955	19821	0.26%	0.062%
301	14.844	14.821	14.869	VV	998	26398	0.35%	0.083%
302	14.893	14.869	14.909	VV	1150	24635	0.32%	0.078%
303	14.911	14.909	14.934	VV	1075	14917	0.20%	0.047%
304	14.958	14.934	14.974	VV	1166	25321	0.33%	0.080%
305	15.001	14.974	15.008	VV	1261	23313	0.31%	0.073%
306	15.022	15.008	15.026	VV	1401	14202	0.19%	0.045%
307	15.051	15.026	15.055	VV	1336	21235	0.28%	0.067%
308	15.082	15.055	15.131	VV	2376	72208	0.95%	0.228%
309	15.146	15.131	15.157	VV	1307	19393	0.25%	0.061%
310	15.191	15.157	15.212	VV	1503	42986	0.56%	0.136%
311	15.246	15.212	15.266	VV	1879	47593	0.62%	0.150%
312	15.273	15.266	15.278	VV	1237	8453	0.11%	0.027%
313	15.286	15.278	15.297	VV	1270	13167	0.17%	0.042%
314	15.302	15.297	15.315	VV	1287	13327	0.17%	0.042%
315	15.330	15.315	15.335	VV	1428	15806	0.21%	0.050%
316	15.359	15.335	15.376	VV	1623	35797	0.47%	0.113%
317	15.382	15.376	15.387	VV	1634	9575	0.13%	0.030%
318	15.393	15.387	15.408	VV	1652	19399	0.25%	0.061%
319	15.426	15.408	15.454	VV	1513	37585	0.49%	0.118%
320	15.467	15.454	15.476	VV	1369	16937	0.22%	0.053%
321	15.482	15.476	15.491	VV	1379	10681	0.14%	0.034%
322	15.516	15.491	15.529	VV	1904	34719	0.45%	0.109%
323	15.551	15.529	15.576	VV	2498	53497	0.70%	0.169%
324	15.584	15.576	15.664	VV	1709	67842	0.89%	0.214%
325	15.680	15.664	15.693	VV	1318	20313	0.27%	0.064%
326	15.702	15.693	15.709	VV	1154	11238	0.15%	0.035%
327	15.714	15.709	15.725	VV	1234	10807	0.14%	0.034%
328	15.729	15.725	15.735	VV	1229	6989	0.09%	0.022%
329	15.740	15.735	15.747	VV	1246	8209	0.11%	0.026%
330	15.752	15.747	15.756	VV	1354	7085	0.09%	0.022%
331	15.762	15.756	15.781	VV	1335	17962	0.24%	0.057%
332	15.798	15.781	15.811	VV	1370	22208	0.29%	0.070%
333	15.820	15.811	15.842	VV	1250	20811	0.27%	0.066%
334	15.848	15.842	15.851	VV	1212	6622	0.09%	0.021%
335	15.867	15.851	15.877	VV	1317	18505	0.24%	0.058%
336	15.880	15.877	15.887	VV	1318	7375	0.10%	0.023%
337	15.910	15.887	15.926	VV	1396	29439	0.39%	0.093%
338	15.931	15.926	15.942	VV	1422	12867	0.17%	0.041%
339	15.995	15.942	16.012	VV	1364	52786	0.69%	0.166%
340	16.035	16.012	16.077	VV	1760	57286	0.75%	0.181%
341	16.084	16.077	16.105	VV	1348	22688	0.30%	0.072%
342	16.129	16.105	16.191	VV	3088	106231	1.39%	0.335%
343	16.199	16.191	16.214	VV	1770	22351	0.29%	0.070%
344	16.220	16.214	16.247	VV	1722	32714	0.43%	0.103%
345	16.256	16.247	16.277	VV	1643	27127	0.36%	0.086%
346	16.286	16.277	16.295	VV	1641	15725	0.21%	0.050%
347	16.331	16.295	16.356	VV	1681	56750	0.74%	0.179%
348	16.391	16.356	16.440	VV	1894	82789	1.08%	0.261%
349	16.495	16.440	16.523	VV	2935	102261	1.34%	0.322%
350	16.551	16.523	16.584	VV	2744	59115	0.77%	0.186%
351	16.600	16.584	16.631	VV	1698	43383	0.57%	0.137%

rteres

352	16.640	16.631	16.665	VV	1562	30763	0.40%	0.097%
353	16.672	16.665	16.722	VV	1593	50382	0.66%	0.159%
354	16.729	16.722	16.753	VV	1488	25985	0.34%	0.082%
355	16.834	16.753	16.863	VV	1759	103936	1.36%	0.328%
356	16.872	16.863	16.881	VV	1725	17394	0.23%	0.055%
357	16.903	16.881	16.914	VV	1794	32896	0.43%	0.104%
358	16.946	16.914	16.982	VV	2620	82427	1.08%	0.260%
359	16.997	16.982	17.030	VV	1832	48808	0.64%	0.154%
360	17.052	17.030	17.080	VV	1963	54191	0.71%	0.171%
361	17.116	17.080	17.133	VV	1890	57394	0.75%	0.181%
362	17.142	17.133	17.155	VV	1754	23303	0.31%	0.073%
363	17.176	17.155	17.198	VV	1999	47553	0.62%	0.150%
364	17.238	17.198	17.260	VV	2087	72754	0.95%	0.229%
365	17.275	17.260	17.329	VV	2188	83195	1.09%	0.262%
366	17.379	17.329	17.452	VV	3651	175406	2.30%	0.553%
367	17.457	17.452	17.468	VV	2019	18463	0.24%	0.058%
368	17.475	17.468	17.489	VV	1998	23789	0.31%	0.075%
369	17.519	17.489	17.542	VV	2061	62869	0.82%	0.198%
370	17.546	17.542	17.562	VV	2066	23253	0.30%	0.073%
371	17.570	17.562	17.593	VV	2081	37032	0.49%	0.117%
372	17.607	17.593	17.631	VV	1983	43053	0.56%	0.136%
373	17.663	17.631	17.692	VV	2136	71786	0.94%	0.226%
374	17.703	17.692	17.740	VV	2021	56180	0.74%	0.177%
375	17.803	17.740	17.860	VV	3169	160309	2.10%	0.505%
376	17.890	17.860	17.907	VV	2167	58046	0.76%	0.183%
377	17.951	17.907	17.984	VV	2301	99555	1.30%	0.314%
378	18.000	17.984	18.008	VV	2250	31139	0.41%	0.098%
379	18.065	18.008	18.117	VV	2376	148905	1.95%	0.469%
380	18.140	18.117	18.152	VV	2392	48197	0.63%	0.152%
381	18.209	18.152	18.280	VV	4310	222378	2.91%	0.701%
382	18.288	18.280	18.300	VBA	2557	28907	0.38%	0.091%

Sum of corrected areas: 31720429

Aromatic EPH 021125.M Fri Feb 28 02:09:42 2025

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 905		Date Received:		
Client Sample ID:	PB166883TB		SDG No.:	Q1421	
Lab Sample ID:	PB166883TB		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
FC068308.D	1		02/27/25	FC022725AL

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)	32.4		40 - 140	65%	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:	PB166883TB	Acq On:	27 Feb 2025 11:38
Client Sample ID:	PB166883TB	Operator:	YP/AJ
Data file:	FC068308.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	3.104	6.370	0	0	300	ug/ml
Aliphatic C12-C16	6.371	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.108	0	0	300	ug/ml
Aliphatic C21-C28	13.109	16.762	0	0	400	ug/ml
Aliphatic C28-C40	16.763	21.566	0	0	600	ug/ml
Aliphatic EPH	3.104	21.566	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	3638278	32.35		ug/ml
Aliphatic C9-C28	3.104	16.762	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068308.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 11:38
Operator : YP/AJ
Sample : PB166883TB
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166883TB

Integration File: autoint1.e
Quant Time: Mar 05 04:43:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.841	3638278	32.348 ug/ml
Spiked Amount 50.000		Recovery = 64.70%	
Target Compounds			

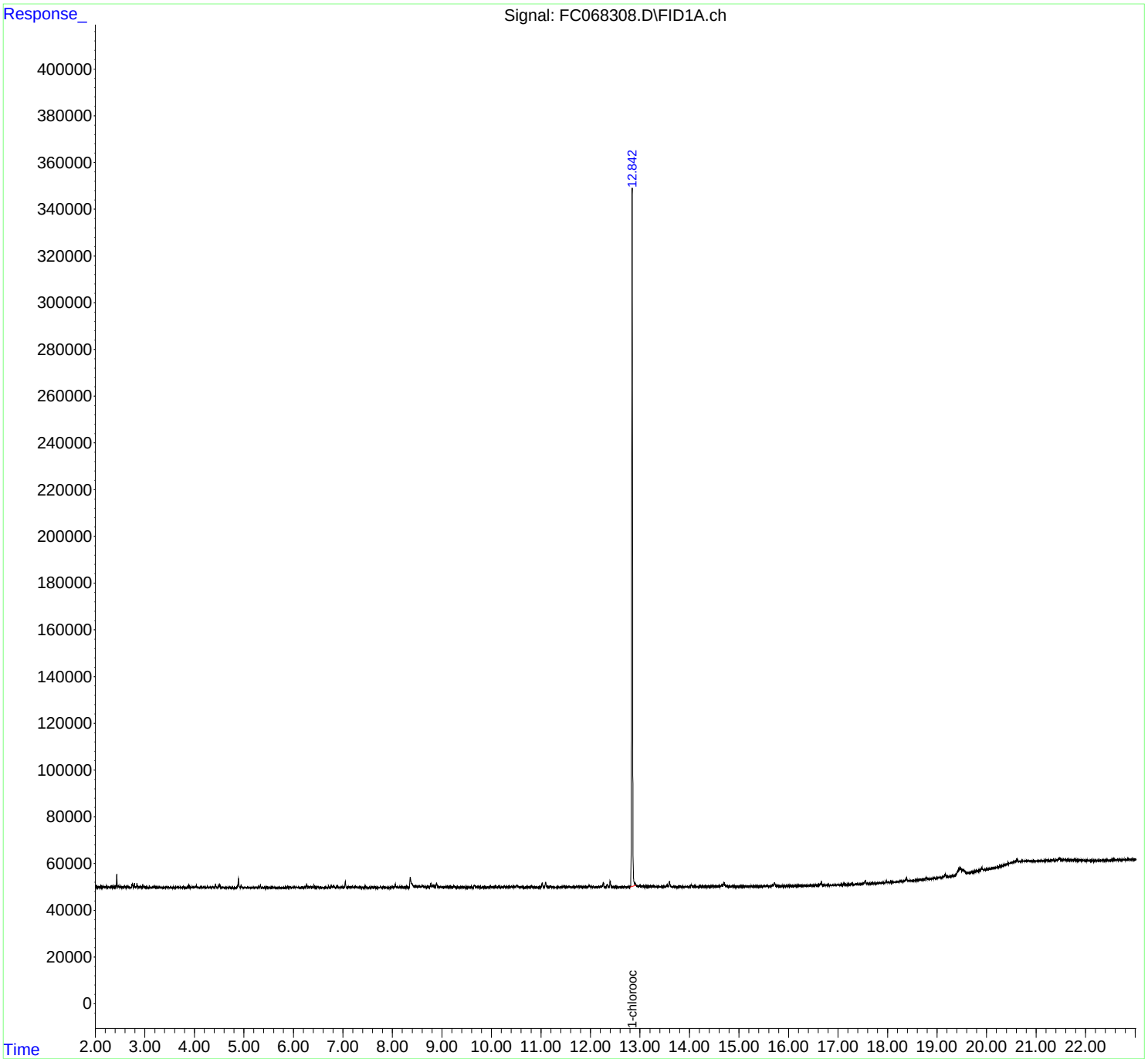
(f)=RT Delta > 1/2 Window (m)=manual int.

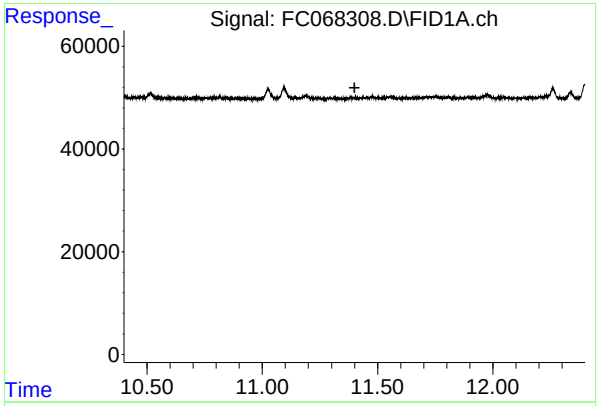
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068308.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 11:38
Operator : YP/AJ
Sample : PB166883TB
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166883TB

Integration File: autoint1.e
Quant Time: Mar 05 04:43:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

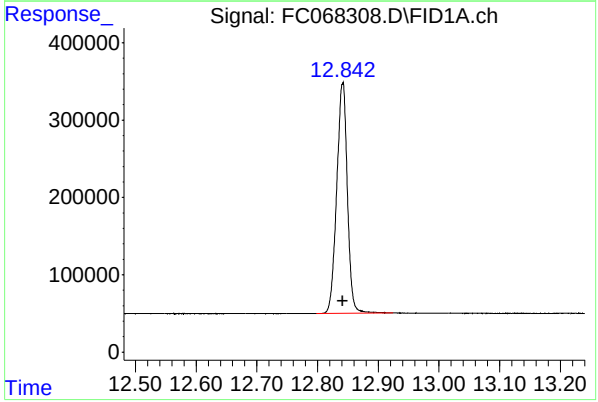




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166883TB



#12 1-chlorooctadecane (SURR)

R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 3638278
Conc: 32.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068308.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 11:38
Sample : PB166883TB
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	12.841	12.798	12.924	BB	298414	3638278	100.00%	100.000%

Sum of corrected areas: 3638278

Aliphatic EPH 021125.M Fri Feb 28 01:08:54 2025

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 905		Date Received:		
Client Sample ID:	PB166883TB		SDG No.:	Q1421	
Lab Sample ID:	PB166883TB		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
FD049117.D	1		02/27/25	FD022725AR

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)	63.4		40 - 140	127%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.2		40 - 140	126%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	56.0		40 - 140	112%	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:	PB166883TB	Acq On:	27 Feb 2025 11:38
Client Sample ID:	PB166883TB	Operator:	YP/AJ
Data file:	FD049117.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.397	0	0	300	ug/ml
Aromatic C16-C21	8.398	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.071	0	0	800	ug/ml
Aromatic EPH	4.076	18.071	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.353	7.353	9069576	63.38		ug/ml
2-Flurobiphenyl (SURR)	8.202	8.202	5555151	63.19		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	9067534	56.05		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049117.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 11:38
Operator : YP/AJ
Sample : PB166883TB
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166883TB

Integration File: autoint1.e
Quant Time: Feb 28 01:26:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.353	9069576	63.375 ug/ml
Spiked Amount 50.000		Recovery = 126.75%	
6) S 2-Flurobiphenyl (SURR)	8.202	5555151	63.190 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 126.38%	
11) S ortho-Terphenyl (SURR)	11.237	9067534	56.051 ug/ml
Spiked Amount 50.000		Recovery = 112.10%	
Target Compounds			

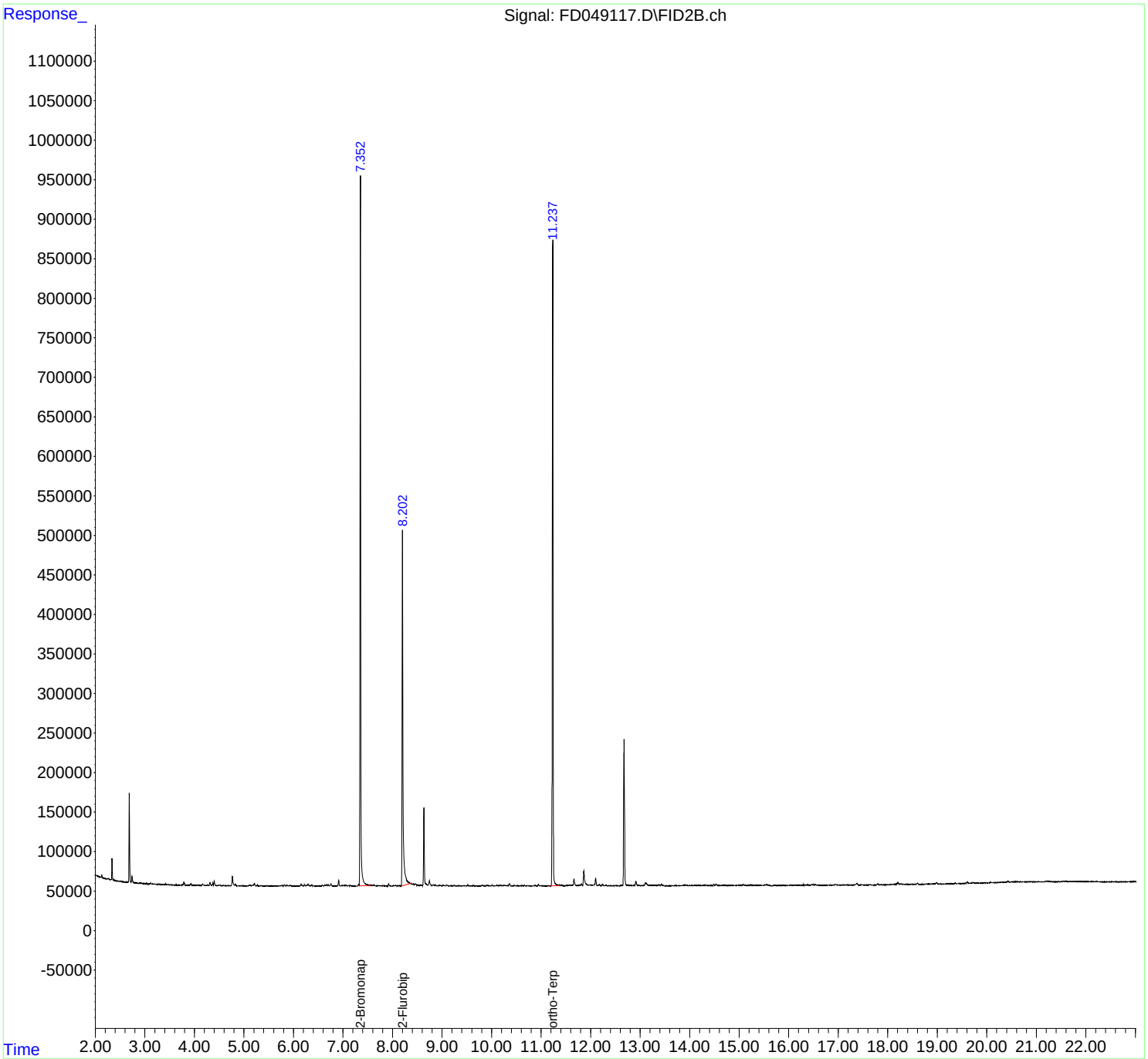
(f)=RT Delta > 1/2 Window (m)=manual int.

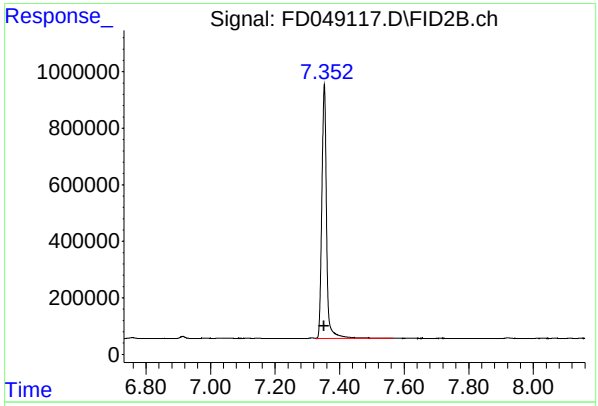
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049117.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 11:38
Operator : YP/AJ
Sample : PB166883TB
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166883TB

Integration File: autoint1.e
Quant Time: Feb 28 01:26:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

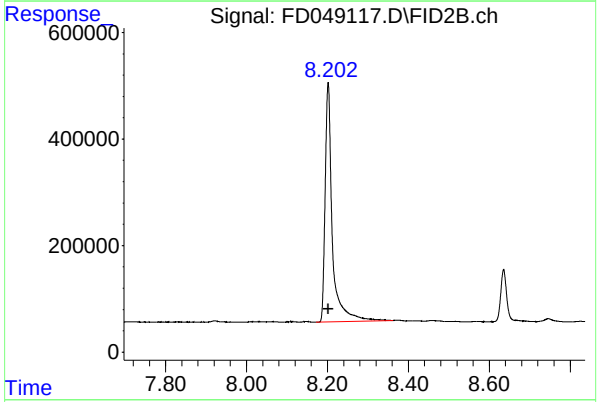




#4 2-Bromonaphthalene (SURR)

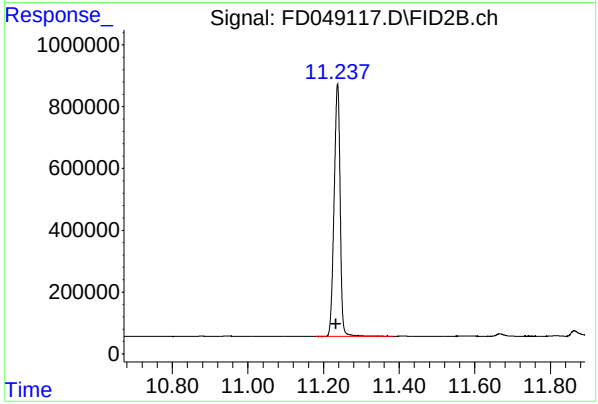
R.T.: 7.353 min
Delta R.T.: 0.001 min
Response: 9069576
Conc: 63.38 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883TB



#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 5555151
Conc: 63.19 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.004 min
Response: 9067534
Conc: 56.05 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049117.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 11:38
Sample : PB166883TB
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	7.353	7.327	7.565	VB	896174	9069576	100.00%	38.281%
2	8.202	8.172	8.362	BV	449985	5555151	61.25%	23.447%
3	11.237	11.180	11.383	BB	817167	9067534	99.98%	38.272%

Sum of corrected areas: 23692261

Aromatic EPH 021125.M Fri Feb 28 01:59:03 2025

CALIBRATION SUMMARY

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

Inital Calibration Report for SequenceID : FC021125AL

AreaCount

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	39331006.000	20240186.000	8511519.000	4474674.000	2221877.000	
Aliphatic C12-C16	25563872.000	13091029.000	5472087.000	2866719.000	1444048.000	
Aliphatic C16-C21	36707935.000	18751121.000	7907675.000	4144581.000	2112599.000	
Aliphatic C21-C28	45593595.000	23234194.000	9834944.000	5144532.000	2635031.000	
Aliphatic C28-C40	56736862.000	29009865.000	12324513.000	6514067.000	3350978.000	
Aliphatic EPH	203933270.000	104326395.000	44050738.000	23144573.000	11764533.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	141035.5019998	5.636				
Aliphatic C12-C16	136654.515	5.375				
Aliphatic C16-C21	131630.8946664	6.092				
Aliphatic C21-C28	122691.3215	6.255				
Aliphatic C28-C40	102846.462333	7.171				
Aliphatic EPH	122175.1266664	6.234				

Concentration

Parameter Range	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.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	FC068252.D	FC068253.D	FC068254.D	FC068255.D	FC068256.D	
Aliphatic C9-C12	131103.353333	134934.573333	141858.650000	149155.800000	148125.133333	
Aliphatic C12-C16	127819.360000	130910.290000	136802.175000	143335.950000	144404.800000	
Aliphatic C16-C21	122359.783333	125007.473333	131794.583333	138152.700000	140839.933333	

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

Inital Calibration Report for SequenceID : FC021125AL

Aliphatic C21-C28	113983.987500	116170.970000	122936.800000	128613.300000	131751.550000	
Aliphatic C28-C40	94561.436666	96699.550000	102704.275000	108567.783333	111699.266666	
Aliphatic EPH	113296.261111	115918.216666	122363.161111	128580.961111	130717.033333	

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

Lab Sample ID:	100 PPM ALIPHATIC HC	Acq On:	10 Feb 2025 16:24
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068252.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.107	6.373	39331006.000	300.000	ug/ml
Aliphatic C12-C16	6.374	9.756	25563872.000	200.000	ug/ml
Aliphatic C16-C21	9.757	13.110	36707935.000	300.000	ug/ml
Aliphatic C21-C28	13.111	16.762	45593595.000	400.000	ug/ml
Aliphatic C28-C40	16.763	21.563	56736862.000	600.000	ug/ml
Aliphatic EPH	3.107		203933270.000	1800.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 11 02:30:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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)	11.410	14212174	92.574 ug/ml
Spiked Amount	50.000		Recovery =	185.15%
12)	S 1-chlorooctadecane (S...	12.849	10559687	93.495 ug/ml
Spiked Amount	50.000		Recovery =	186.99%
	Target Compounds			
1)	T n-Nonane (C9)	3.211	13034849	92.005 ug/ml
2)	T n-Decane (C10)	4.270	13187244	92.433 ug/ml
3)	T A~Naphthalene (C11.7)	5.838	14533716	93.918 ug/ml
4)	T n-Dodecane (C12)	6.280	13108913	92.818 ug/ml
5)	T A~2-methylnaphthalene...	6.891	13929436	94.987 ug/ml
6)	T n-Tetradecane (C14)	8.068	12728359	93.377 ug/ml
7)	T n-Hexadecane (C16)	9.664	12835513	93.490 ug/ml
8)	T n-Octadecane (C18)	11.104	12748213	93.034 ug/ml
10)	T n-Eicosane (C20)	12.408	12107311	92.743 ug/ml
11)	T n-Heneicosane (C21)	13.019	11852411	92.734 ug/ml
13)	T n-Docosane (C22)	13.604	11728617	92.902 ug/ml
14)	T n-Tetracosane (C24)	14.704	11568914	92.905 ug/ml
15)	T n-Hexacosane (C26)	15.723	11302843	92.721 ug/ml
16)	T n-Octacosane (C28)	16.671	10993221	92.322 ug/ml
17)	T n-Tricontane (C30)	17.556	11027160	91.890 ug/ml
18)	T n-Dotriacontane (C32)	18.388	10599289	91.711 ug/ml
19)	T n-Tetratriacontane (C34)	19.170	9898762	91.900 ug/ml
20)	T n-Hexatriacontane (C36)	19.908	8865949	92.289 ug/ml
21)	T n-Octatriacontane (C38)	20.619	8293679	91.939 ug/ml
22)	T n-Tetracontane (C40)	21.474	8052023	92.913 ug/ml

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

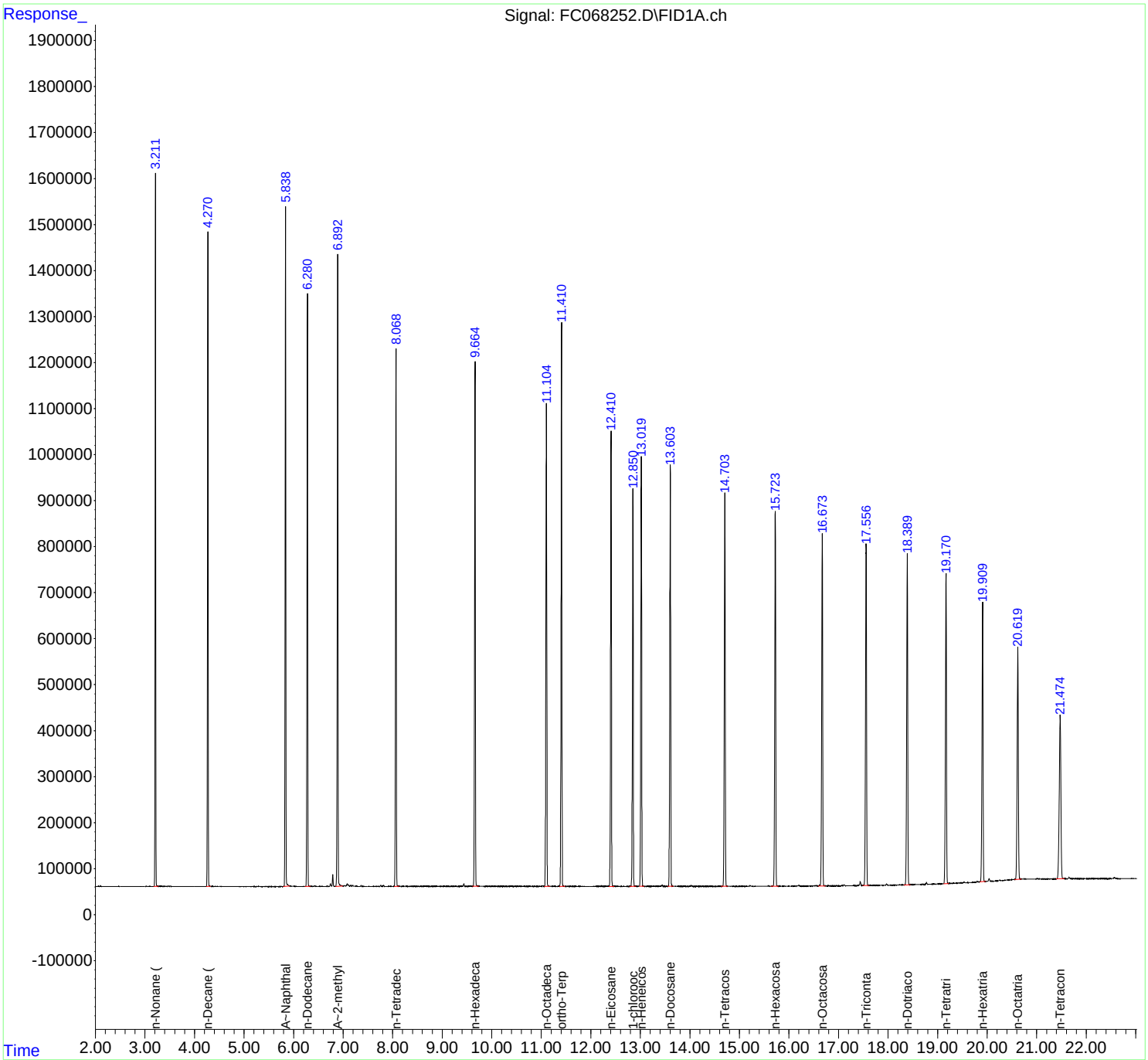
Quantitation Report (QT Reviewed)

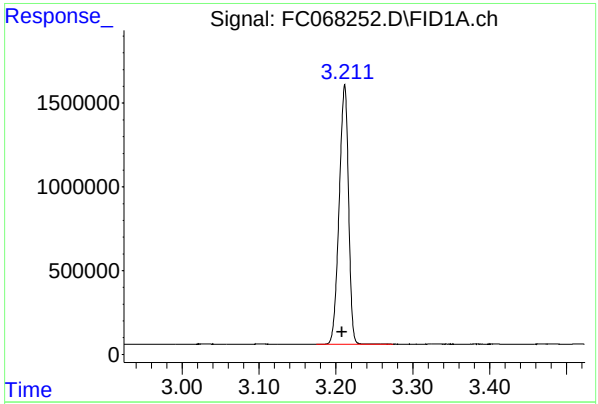
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 11 02:30:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

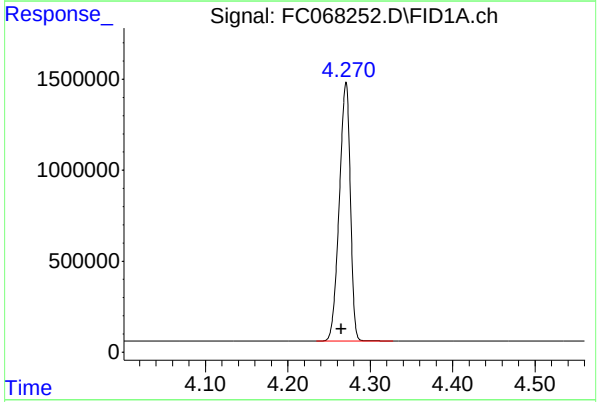




#1 n-Nonane (C9)

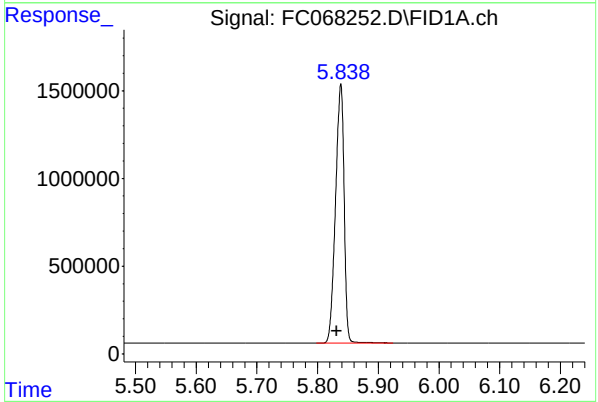
R.T.: 3.211 min
Delta R.T.: 0.003 min
Response: 13034849
Conc: 92.01 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



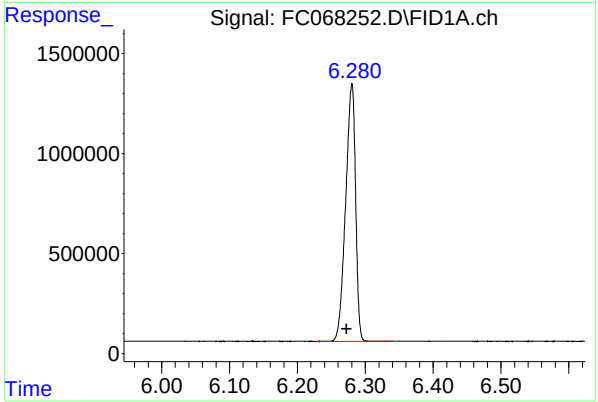
#2 n-Decane (C10)

R.T.: 4.270 min
Delta R.T.: 0.005 min
Response: 13187244
Conc: 92.43 ug/ml



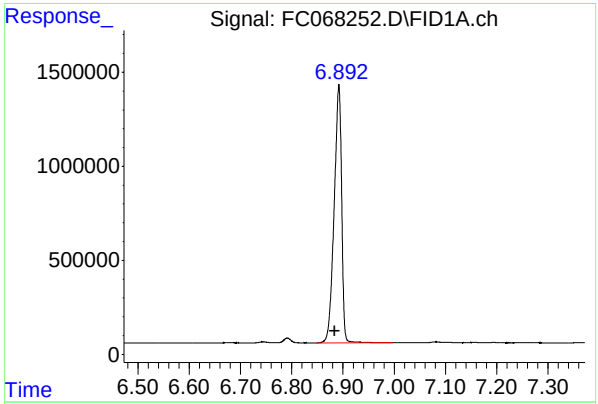
#3 A~Naphthalene (C11.7)

R.T.: 5.838 min
Delta R.T.: 0.006 min
Response: 14533716
Conc: 93.92 ug/ml



#4 n-Dodecane (C12)

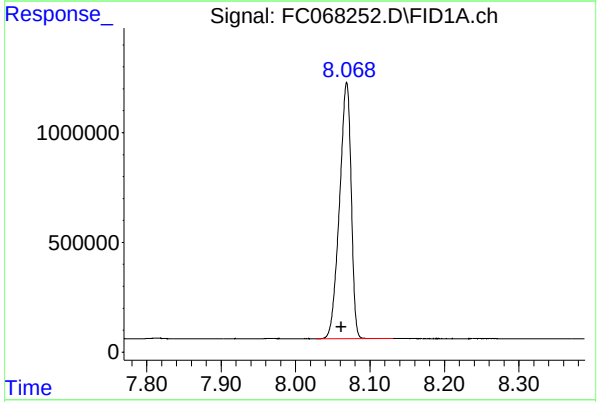
R.T.: 6.280 min
Delta R.T.: 0.007 min
Response: 13108913
Conc: 92.82 ug/ml



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

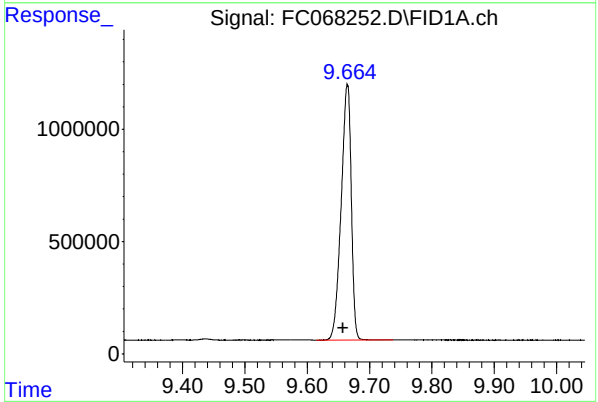
R.T.: 6.891 min
Delta R.T.: 0.007 min
Response: 13929436
Conc: 94.99 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



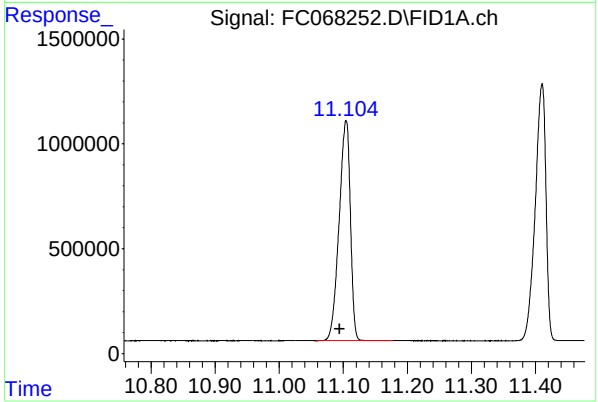
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: 0.007 min
Response: 12728359
Conc: 93.38 ug/ml



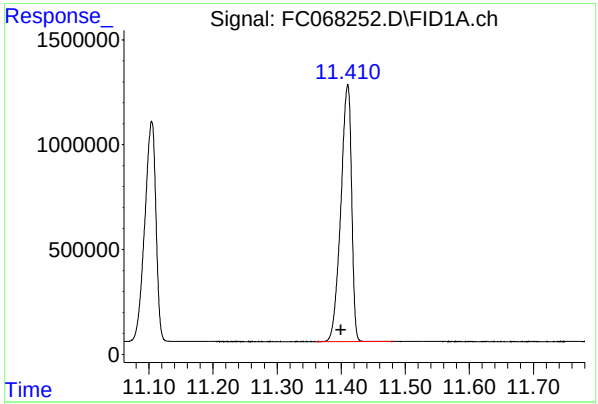
#7 n-Hexadecane (C16)

R.T.: 9.664 min
Delta R.T.: 0.007 min
Response: 12835513
Conc: 93.49 ug/ml



#8 n-Octadecane (C18)

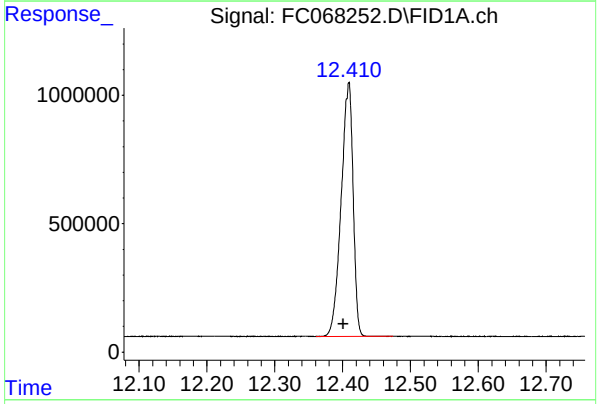
R.T.: 11.104 min
Delta R.T.: 0.009 min
Response: 12748213
Conc: 93.03 ug/ml



#9 ortho-Terphenyl (SURR)

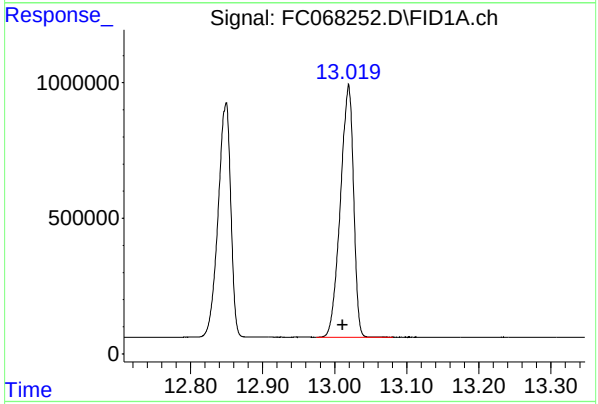
R.T.: 11.410 min
Delta R.T.: 0.010 min
Response: 14212174
Conc: 92.57 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



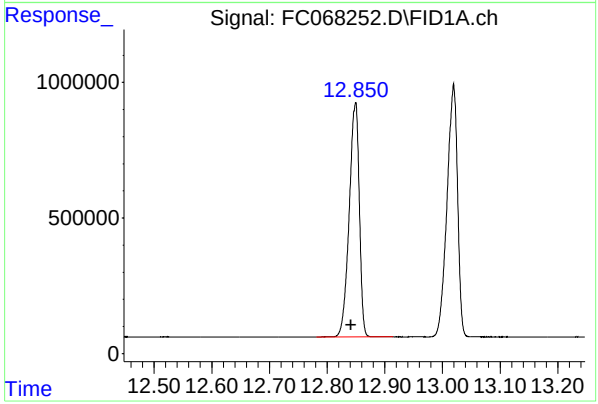
#10 n-Eicosane (C20)

R.T.: 12.408 min
Delta R.T.: 0.007 min
Response: 12107311
Conc: 92.74 ug/ml



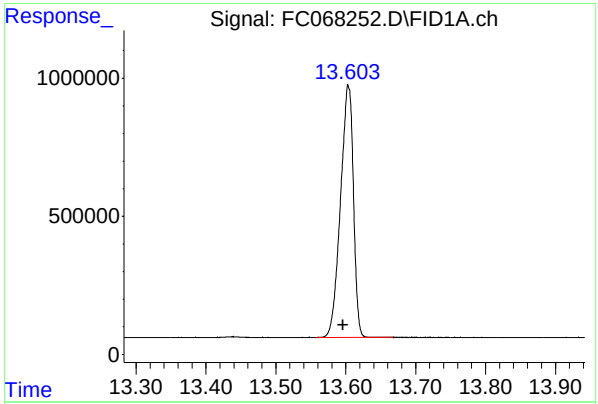
#11 n-Heneicosane (C21)

R.T.: 13.019 min
Delta R.T.: 0.008 min
Response: 11852411
Conc: 92.73 ug/ml



#12 1-chlorooctadecane (SURR)

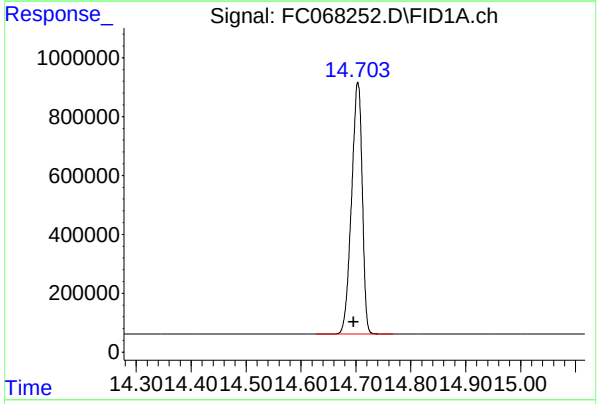
R.T.: 12.849 min
Delta R.T.: 0.007 min
Response: 10559687
Conc: 93.50 ug/ml



#13 n-Docosane (C22)

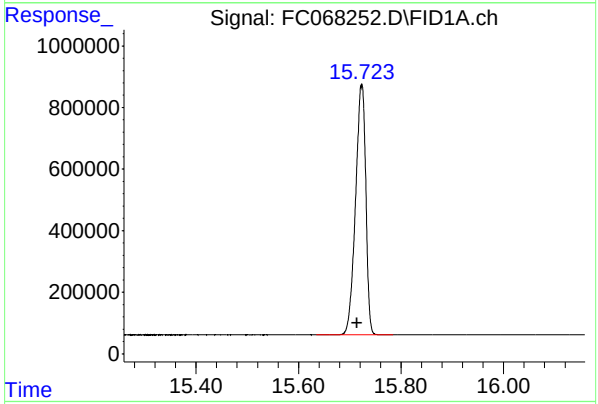
R.T.: 13.604 min
Delta R.T.: 0.008 min
Response: 11728617
Conc: 92.90 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



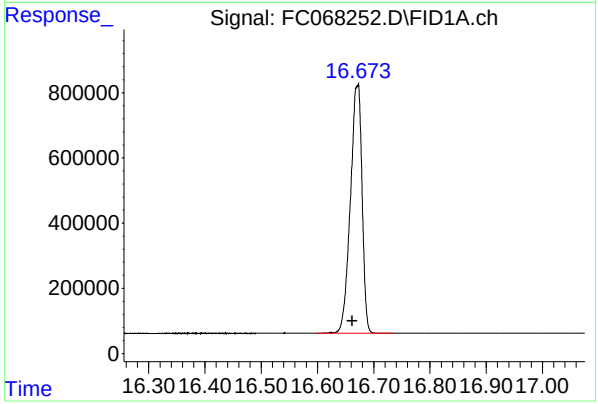
#14 n-Tetracosane (C24)

R.T.: 14.704 min
Delta R.T.: 0.008 min
Response: 11568914
Conc: 92.91 ug/ml



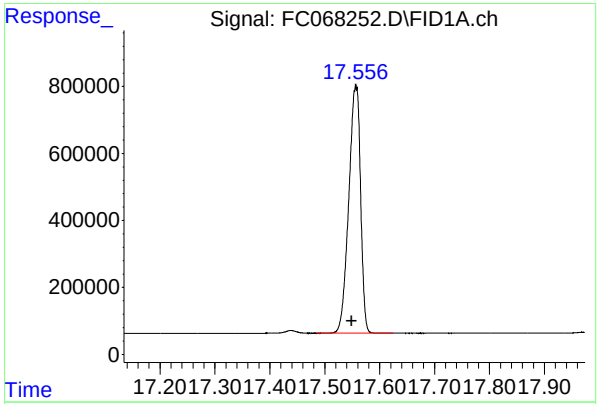
#15 n-Hexacosane (C26)

R.T.: 15.723 min
Delta R.T.: 0.009 min
Response: 11302843
Conc: 92.72 ug/ml



#16 n-Octacosane (C28)

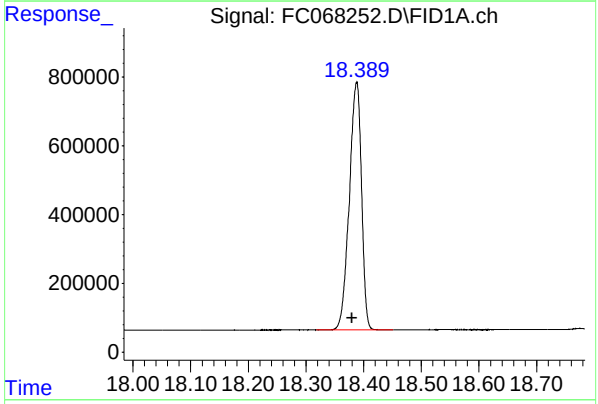
R.T.: 16.671 min
Delta R.T.: 0.009 min
Response: 10993221
Conc: 92.32 ug/ml



#17 n-Tricontane (C30)

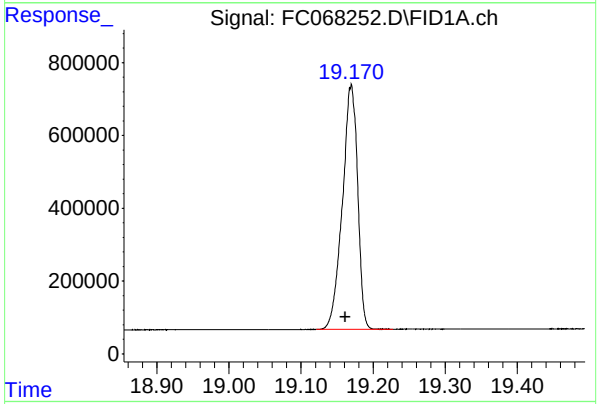
R.T.: 17.556 min
Delta R.T.: 0.007 min
Response: 11027160
Conc: 91.89 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



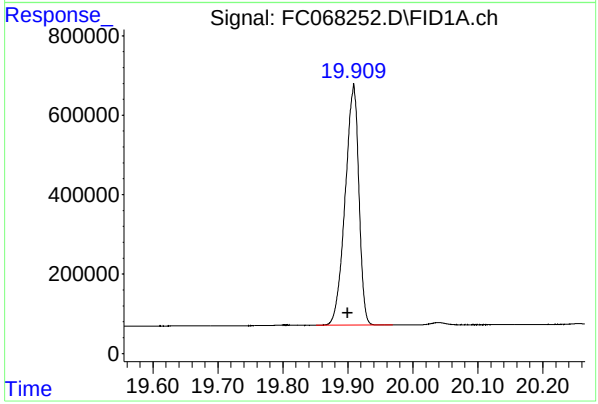
#18 n-Dotriacontane (C32)

R.T.: 18.388 min
Delta R.T.: 0.008 min
Response: 10599289
Conc: 91.71 ug/ml



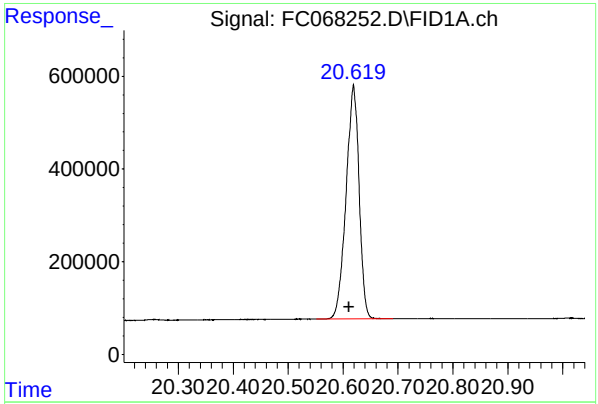
#19 n-Tetratriacontane (C34)

R.T.: 19.170 min
Delta R.T.: 0.008 min
Response: 9898762
Conc: 91.90 ug/ml



#20 n-Hexatriacontane (C36)

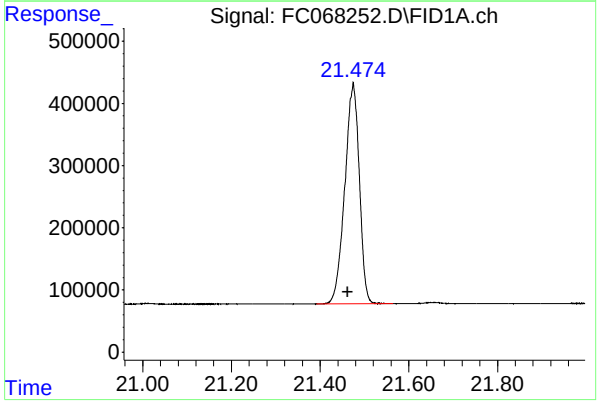
R.T.: 19.908 min
Delta R.T.: 0.008 min
Response: 8865949
Conc: 92.29 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.619 min
Delta R.T.: 0.008 min
Response: 8293679
Conc: 91.94 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.474 min
Delta R.T.: 0.012 min
Response: 8052023
Conc: 92.91 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068252.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 16:24
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.211	3.174	3.274	BB	1536067	13034849	89.69%	5.069%
2	4.270	4.234	4.328	BB	1438029	13187244	90.74%	5.128%
3	5.838	5.798	5.924	BB	1468511	14533716	100.00%	5.651%
4	6.280	6.228	6.341	BB	1303761	13108913	90.20%	5.097%
5	6.891	6.848	6.998	BB	1352654	13929436	95.84%	5.416%
6	8.068	8.028	8.131	BB	1162652	12728359	87.58%	4.949%
7	9.664	9.614	9.738	BB	1144286	12835513	88.32%	4.991%
8	11.104	11.058	11.178	BB	1054227	12748213	87.71%	4.957%
9	11.410	11.361	11.481	BB	1241101	14212174	97.79%	5.526%
10	12.408	12.361	12.474	BB	966080	12107311	83.30%	4.708%
11	12.849	12.781	12.914	BB	856617	10559687	72.66%	4.106%
12	13.019	12.974	13.081	BB	912197	11852411	81.55%	4.609%
13	13.604	13.558	13.668	BB	916235	11728617	80.70%	4.561%
14	14.704	14.628	14.768	BB	856005	11568914	79.60%	4.499%
15	15.723	15.634	15.784	BB	820737	11302843	77.77%	4.395%
16	16.671	16.598	16.734	BB	759899	10993221	75.64%	4.275%
17	17.556	17.484	17.624	BB	738963	11027160	75.87%	4.288%
18	18.388	18.318	18.451	BB	719758	10599289	72.93%	4.122%
19	19.170	19.121	19.228	BB	668913	9898762	68.11%	3.849%
20	19.908	19.851	19.969	BBA	593167	8865949	61.00%	3.448%
21	20.619	20.551	20.691	BB	499026	8293679	57.07%	3.225%
22	21.474	21.391	21.564	BB	353119	8052023	55.40%	3.131%
			Sum of corrected areas:			257168283		

Aliphatic EPH 021125.M Tue Feb 11 02:39:04 2025

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:	10 Feb 2025 17:01
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068253.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.107	6.373	20240186.000	150.000	ug/ml
Aliphatic C12-C16	6.374	9.756	13091029.000	100.000	ug/ml
Aliphatic C16-C21	9.757	13.110	18751121.000	150.000	ug/ml
Aliphatic C21-C28	13.111	16.762	23234194.000	200.000	ug/ml
Aliphatic C28-C40	16.763	21.563	29009865.000	300.000	ug/ml
Aliphatic EPH	3.107		104326395.000	900.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 11 02:30:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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)	11.404	7265657	47.326 ug/ml
Spiked Amount	50.000		Recovery =	94.65%
12) S	1-chlorooctadecane (S...	12.845	5379642	47.631 ug/ml
Spiked Amount	50.000		Recovery =	95.26%
	Target Compounds			
1) T	n-Nonane (C9)	3.209	6719412	47.428 ug/ml
2) T	n-Decane (C10)	4.267	6784596	47.555 ug/ml
3) T	A~Naphthalene (C11.7)	5.834	7434634	48.043 ug/ml
4) T	n-Dodecane (C12)	6.276	6736178	47.696 ug/ml
5) T	A~2-methylnaphthalene...	6.887	7096295	48.391 ug/ml
6) T	n-Tetradecane (C14)	8.065	6521596	47.844 ug/ml
7) T	n-Hexadecane (C16)	9.660	6569433	47.850 ug/ml
8) T	n-Octadecane (C18)	11.099	6516282	47.555 ug/ml
10) T	n-Eicosane (C20)	12.404	6182901	47.362 ug/ml
11) T	n-Heneicosane (C21)	13.014	6051938	47.351 ug/ml
13) T	n-Docosane (C22)	13.599	5978682	47.357 ug/ml
14) T	n-Tetracosane (C24)	14.700	5893630	47.329 ug/ml
15) T	n-Hexacosane (C26)	15.718	5756725	47.224 ug/ml
16) T	n-Octacosane (C28)	16.665	5605157	47.073 ug/ml
17) T	n-Tricontane (C30)	17.551	5630196	46.917 ug/ml
18) T	n-Dotriacontane (C32)	18.383	5417986	46.879 ug/ml
19) T	n-Tetratriacontane (C34)	19.165	5059593	46.973 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	4533198	47.188 ug/ml
21) T	n-Octatriacontane (C38)	20.614	4246406	47.073 ug/ml
22) T	n-Tetracontane (C40)	21.465	4122486	47.570 ug/ml

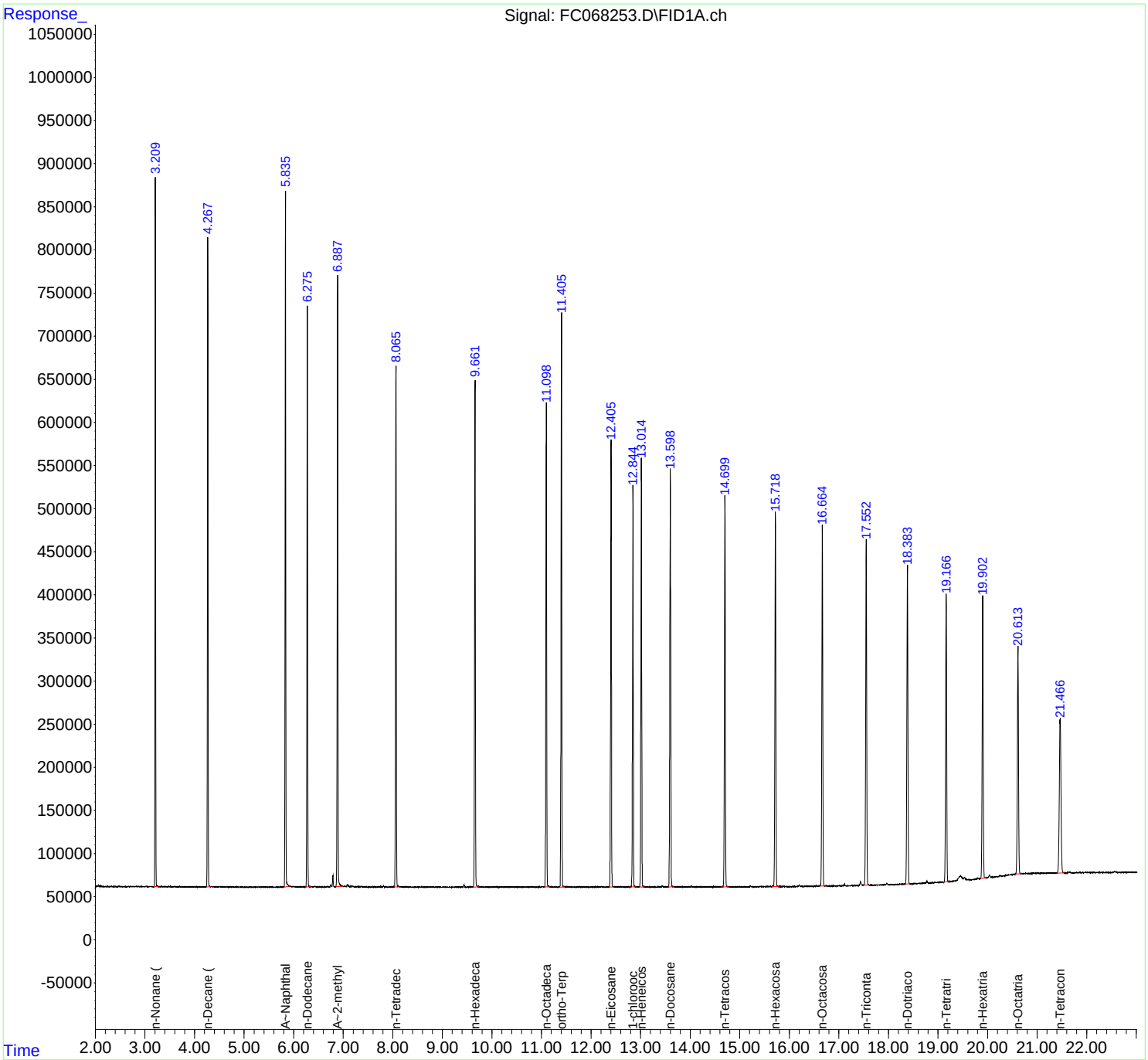
(f)=RT Delta > 1/2 Window (m)=manual int.

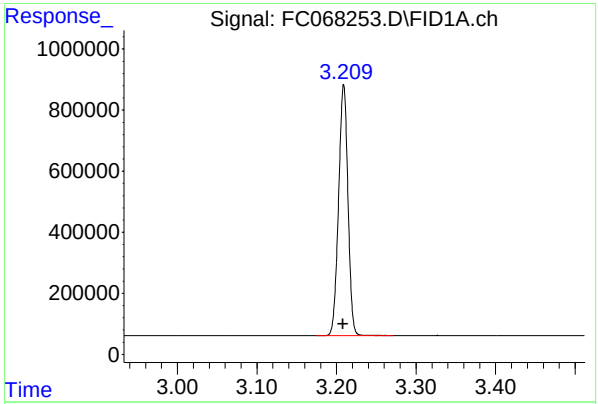
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 11 02:30:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

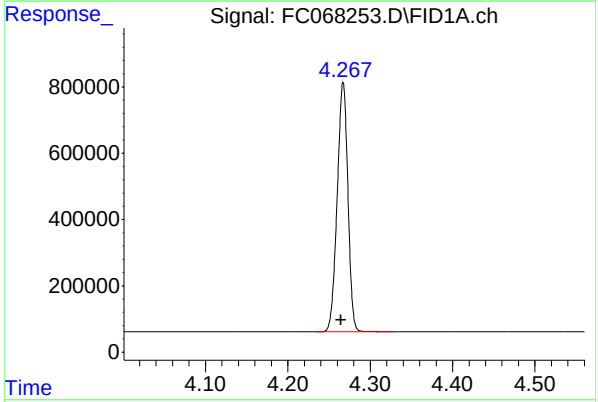




#1 n-Nonane (C9)

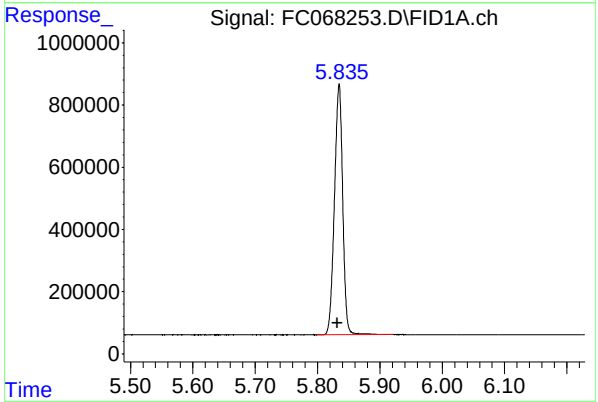
R.T.: 3.209 min
Delta R.T.: 0.000 min
Response: 6719412
Conc: 47.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



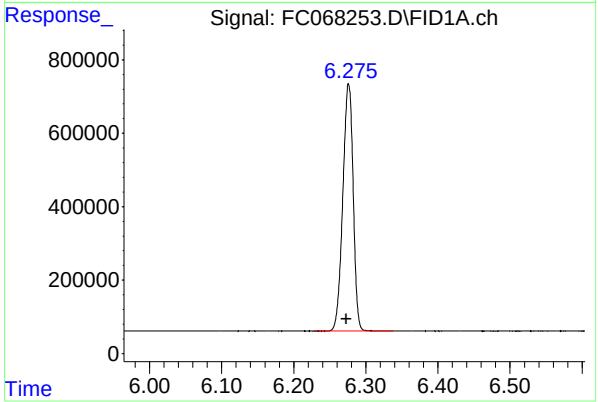
#2 n-Decane (C10)

R.T.: 4.267 min
Delta R.T.: 0.002 min
Response: 6784596
Conc: 47.56 ug/ml



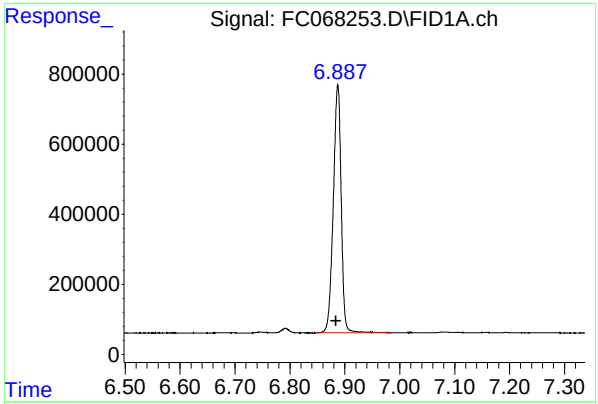
#3 A~Naphthalene (C11.7)

R.T.: 5.834 min
Delta R.T.: 0.003 min
Response: 7434634
Conc: 48.04 ug/ml



#4 n-Dodecane (C12)

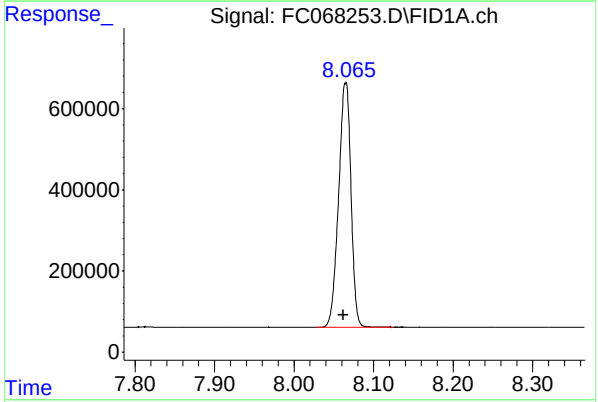
R.T.: 6.276 min
Delta R.T.: 0.003 min
Response: 6736178
Conc: 47.70 ug/ml



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

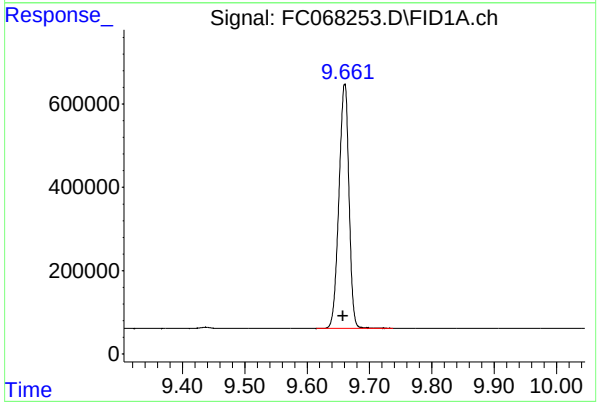
R.T.: 6.887 min
Delta R.T.: 0.003 min
Response: 7096295
Conc: 48.39 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



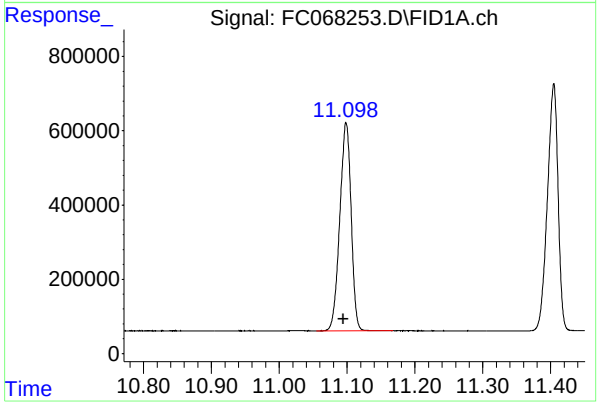
#6 n-Tetradecane (C14)

R.T.: 8.065 min
Delta R.T.: 0.003 min
Response: 6521596
Conc: 47.84 ug/ml



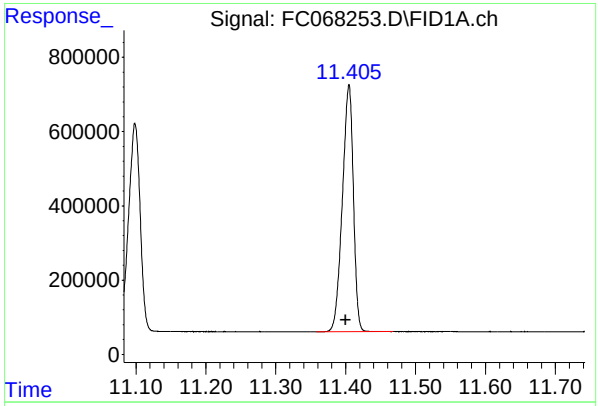
#7 n-Hexadecane (C16)

R.T.: 9.660 min
Delta R.T.: 0.003 min
Response: 6569433
Conc: 47.85 ug/ml



#8 n-Octadecane (C18)

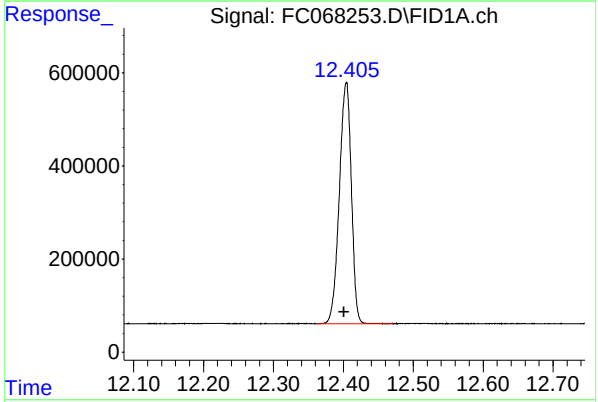
R.T.: 11.099 min
Delta R.T.: 0.004 min
Response: 6516282
Conc: 47.55 ug/ml



#9 ortho-Terphenyl (SURR)

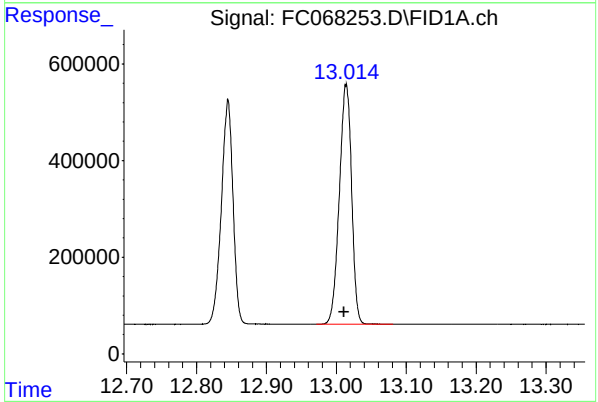
R.T.: 11.404 min
Delta R.T.: 0.005 min
Response: 7265657
Conc: 47.33 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



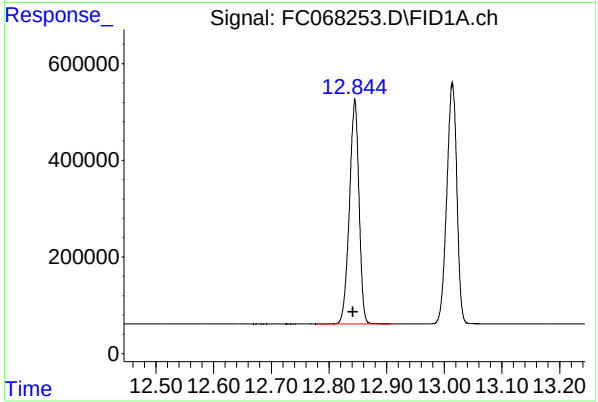
#10 n-Eicosane (C20)

R.T.: 12.404 min
Delta R.T.: 0.003 min
Response: 6182901
Conc: 47.36 ug/ml



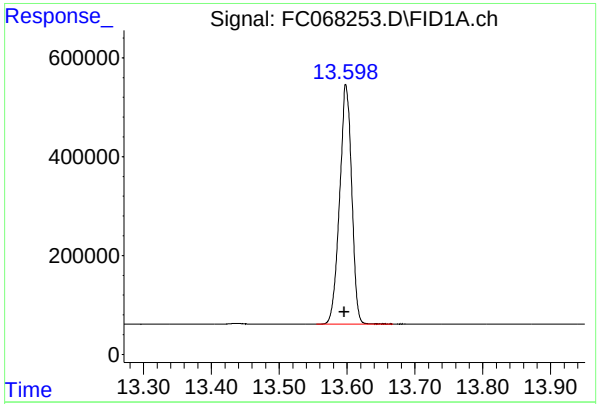
#11 n-Heneicosane (C21)

R.T.: 13.014 min
Delta R.T.: 0.003 min
Response: 6051938
Conc: 47.35 ug/ml



#12 1-chlorooctadecane (SURR)

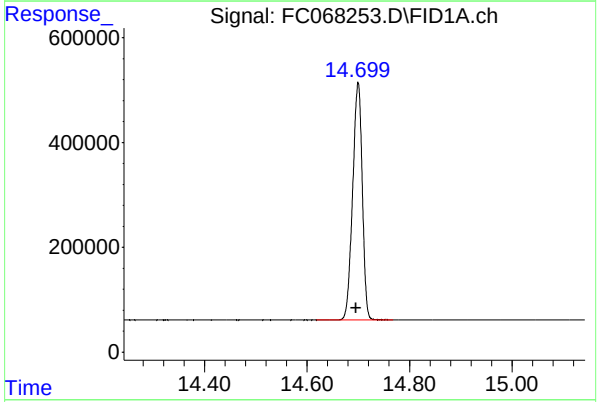
R.T.: 12.845 min
Delta R.T.: 0.003 min
Response: 5379642
Conc: 47.63 ug/ml



#13 n-Docosane (C22)

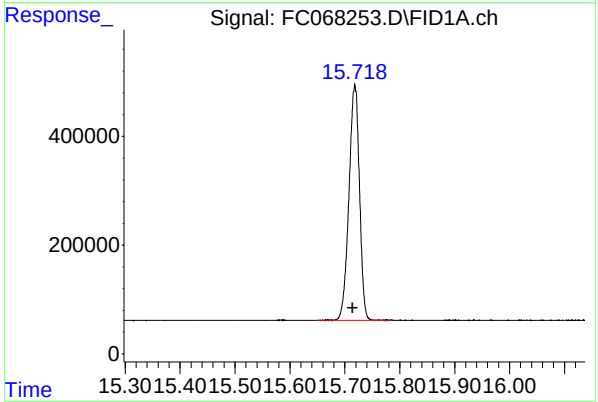
R.T.: 13.599 min
Delta R.T.: 0.003 min
Response: 5978682
Conc: 47.36 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



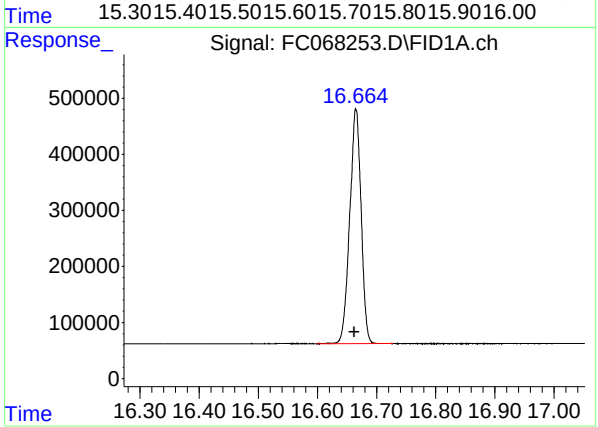
#14 n-Tetracosane (C24)

R.T.: 14.700 min
Delta R.T.: 0.004 min
Response: 5893630
Conc: 47.33 ug/ml



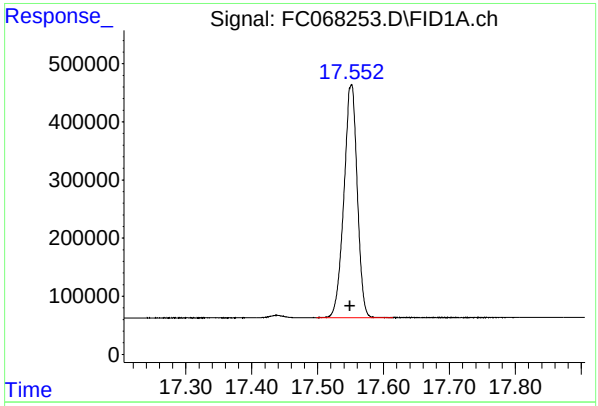
#15 n-Hexacosane (C26)

R.T.: 15.718 min
Delta R.T.: 0.004 min
Response: 5756725
Conc: 47.22 ug/ml



#16 n-Octacosane (C28)

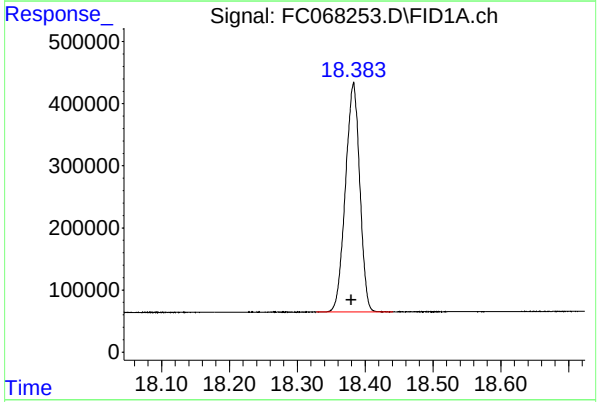
R.T.: 16.665 min
Delta R.T.: 0.003 min
Response: 5605157
Conc: 47.07 ug/ml



#17 n-Tricontane (C30)

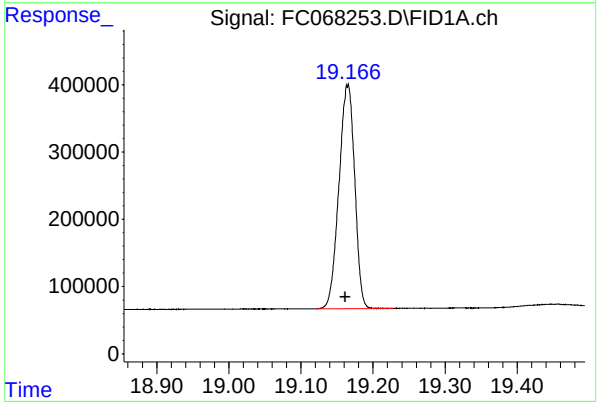
R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 5630196
Conc: 46.92 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



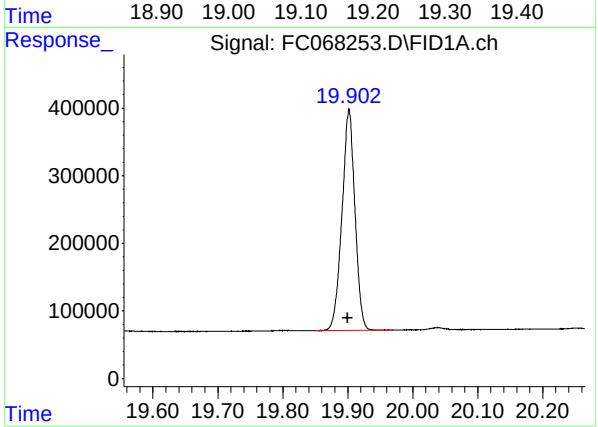
#18 n-Dotriacontane (C32)

R.T.: 18.383 min
Delta R.T.: 0.003 min
Response: 5417986
Conc: 46.88 ug/ml



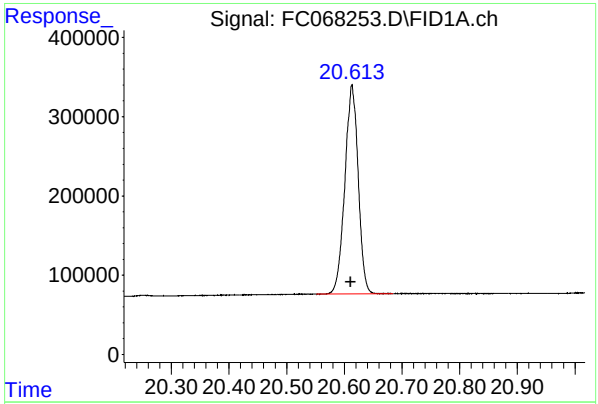
#19 n-Tetratriacontane (C34)

R.T.: 19.165 min
Delta R.T.: 0.004 min
Response: 5059593
Conc: 46.97 ug/ml



#20 n-Hexatriacontane (C36)

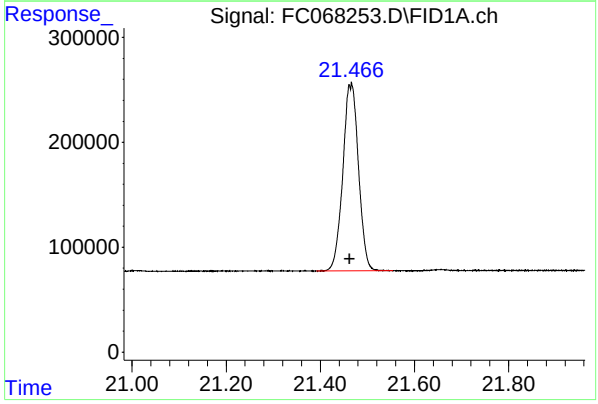
R.T.: 19.902 min
Delta R.T.: 0.002 min
Response: 4533198
Conc: 47.19 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.614 min
Delta R.T.: 0.003 min
Response: 4246406
Conc: 47.07 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.465 min
Delta R.T.: 0.002 min
Response: 4122486
Conc: 47.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068253.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:01
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.209	3.174	3.271	BB	811218	6719412	90.38%	5.110%
2	4.267	4.234	4.328	BB	755911	6784596	91.26%	5.159%
3	5.834	5.798	5.921	BB	804975	7434634	100.00%	5.654%
4	6.276	6.231	6.338	BB	678512	6736178	90.61%	5.122%
5	6.887	6.848	6.988	BB	711876	7096295	95.45%	5.396%
6	8.065	8.028	8.124	BB	605991	6521596	87.72%	4.959%
7	9.660	9.614	9.738	BB	593828	6569433	88.36%	4.996%
8	11.099	11.054	11.168	BB	559745	6516282	87.65%	4.955%
9	11.404	11.358	11.468	BB	664804	7265657	97.73%	5.525%
10	12.404	12.361	12.471	BB	520586	6182901	83.16%	4.702%
11	12.845	12.778	12.911	BB	460356	5379642	72.36%	4.091%
12	13.014	12.971	13.081	BB	497432	6051938	81.40%	4.602%
13	13.599	13.554	13.668	BB	486709	5978682	80.42%	4.546%
14	14.700	14.618	14.768	BB	455435	5893630	79.27%	4.482%
15	15.718	15.648	15.788	BB	431622	5756725	77.43%	4.378%
16	16.665	16.598	16.728	BB	419236	5605157	75.39%	4.262%
17	17.551	17.498	17.614	BB	400816	5630196	75.73%	4.281%
18	18.383	18.328	18.441	BB	366233	5417986	72.87%	4.120%
19	19.165	19.121	19.228	BB	333071	5059593	68.05%	3.848%
20	19.902	19.851	19.969	BBA	324588	4533198	60.97%	3.447%
21	20.614	20.551	20.684	BB	260933	4246406	57.12%	3.229%
22	21.465	21.391	21.554	BB	175049	4122486	55.45%	3.135%

Sum of corrected areas: 131502620

Aliphatic EPH 021125.M Tue Feb 11 02:39:29 2025

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:	10 Feb 2025 17:38
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068254.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.107	6.373	8511519.000	60.000	ug/ml
Aliphatic C12-C16	6.374	9.756	5472087.000	40.000	ug/ml
Aliphatic C16-C21	9.757	13.110	7907675.000	60.000	ug/ml
Aliphatic C21-C28	13.111	16.762	9834944.000	80.000	ug/ml
Aliphatic C28-C40	16.763	21.563	12324513.000	120.000	ug/ml
Aliphatic EPH	3.107		44050738.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 11 02:30:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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)	11.400	3070458	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12)	S 1-chlorooctadecane (S...	12.842	2258872	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1)	T n-Nonane (C9)	3.208	2833506	20.000 ug/ml
2)	T n-Decane (C10)	4.265	2853357	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	5.831	3094970	20.000 ug/ml
4)	T n-Dodecane (C12)	6.273	2824656	20.000 ug/ml
5)	T A~2-methylnaphthalene...	6.884	2932900	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.062	2726217	20.000 ug/ml
7)	T n-Hexadecane (C16)	9.657	2745870	20.000 ug/ml
8)	T n-Octadecane (C18)	11.095	2740539	20.000 ug/ml
10)	T n-Eicosane (C20)	12.401	2610929	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.011	2556207	20.000 ug/ml
13)	T n-Docosane (C22)	13.596	2524938	20.000 ug/ml
14)	T n-Tetracosane (C24)	14.696	2490472	20.000 ug/ml
15)	T n-Hexacosane (C26)	15.714	2438036	20.000 ug/ml
16)	T n-Octacosane (C28)	16.662	2381498	20.000 ug/ml
17)	T n-Tricontane (C30)	17.549	2400071	20.000 ug/ml
18)	T n-Dotriacontane (C32)	18.380	2311459	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.161	2154239	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	19.900	1921336	20.000 ug/ml
21)	T n-Octatriacontane (C38)	20.611	1804172	20.000 ug/ml
22)	T n-Tetracontane (C40)	21.463	1733236	20.000 ug/ml

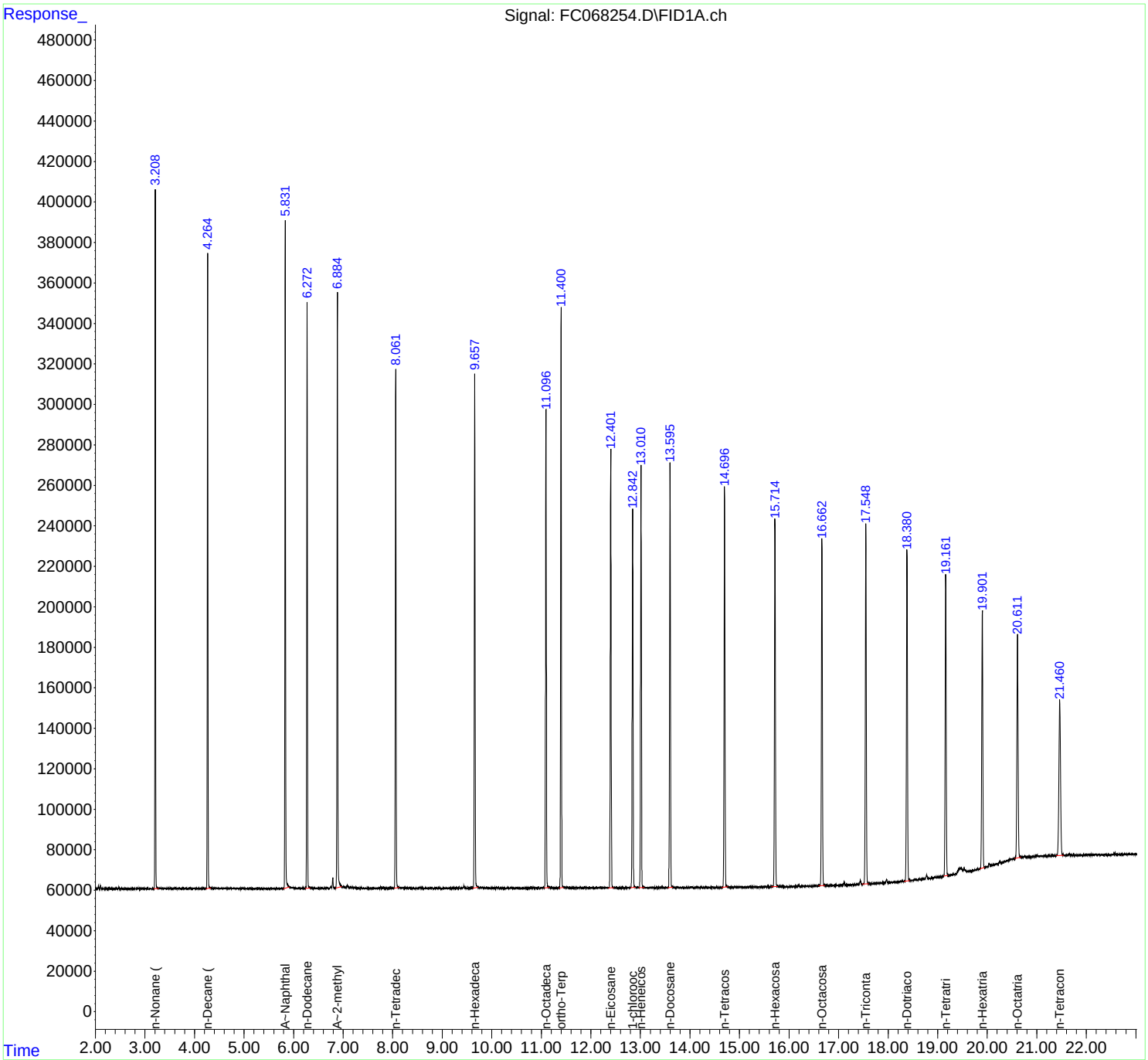
(f)=RT Delta > 1/2 Window (m)=manual int.

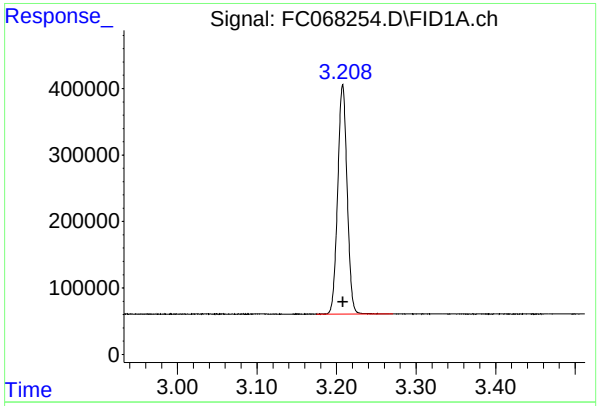
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 11 02:30:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

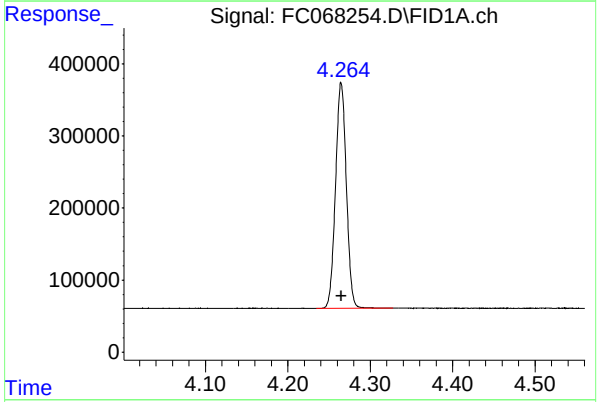




#1 n-Nonane (C9)

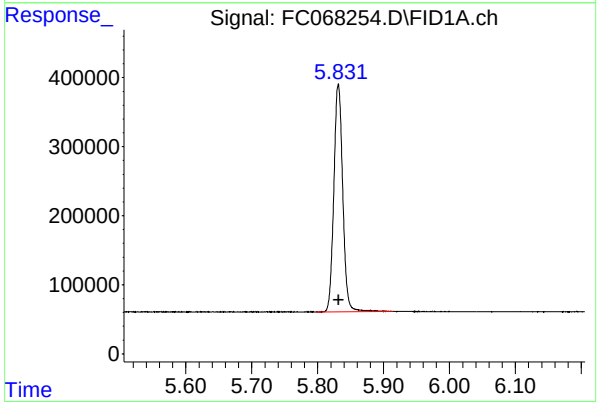
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 2833506
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



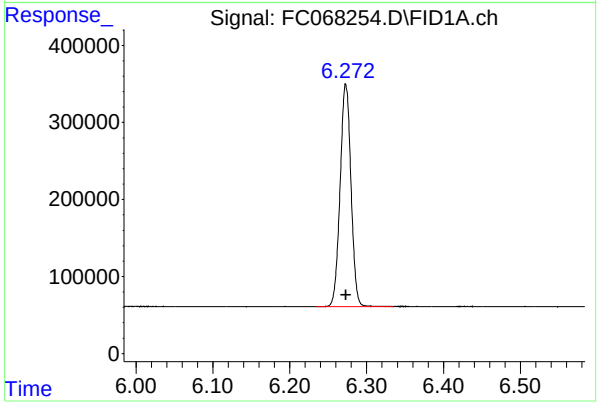
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 2853357
Conc: 20.00 ug/ml



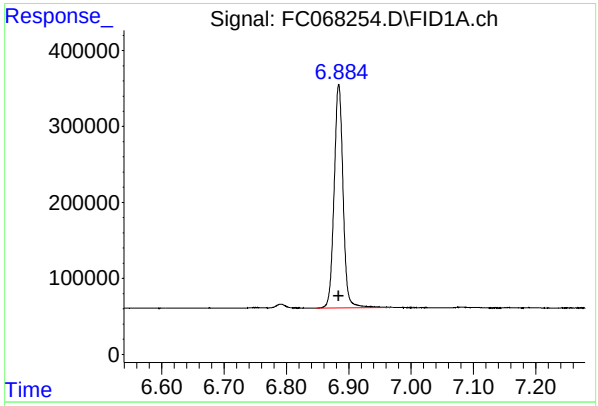
#3 A~Naphthalene (C11.7)

R.T.: 5.831 min
Delta R.T.: 0.000 min
Response: 3094970
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

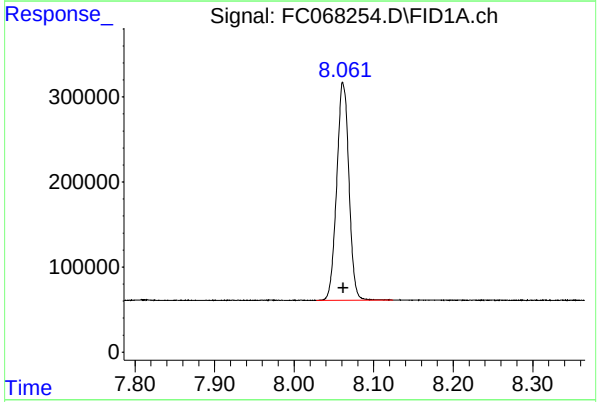
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 2824656
Conc: 20.00 ug/ml



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

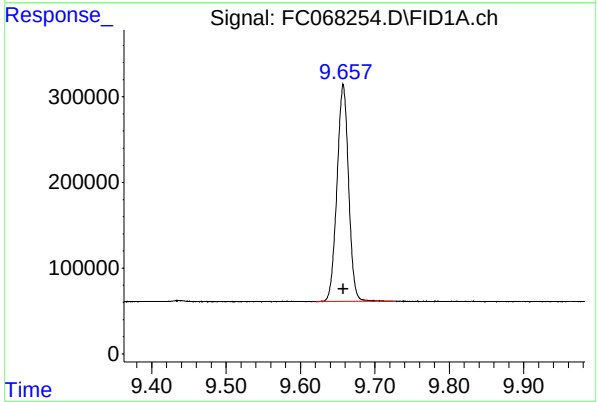
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 2932900
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



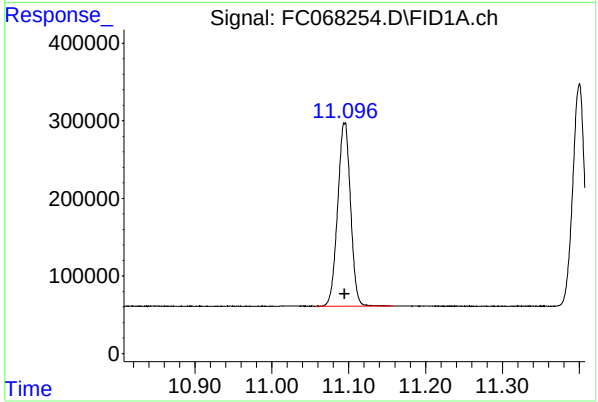
#6 n-Tetradecane (C14)

R.T.: 8.062 min
Delta R.T.: 0.000 min
Response: 2726217
Conc: 20.00 ug/ml



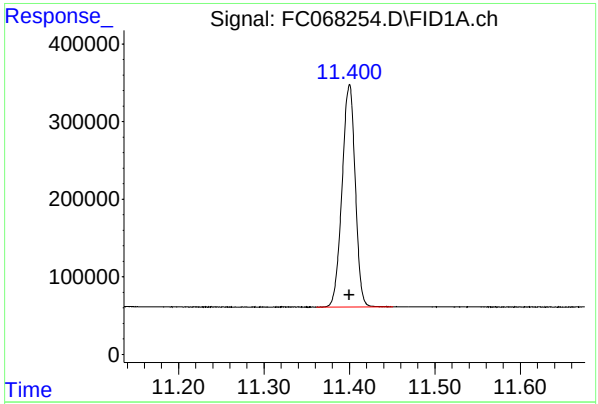
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 2745870
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

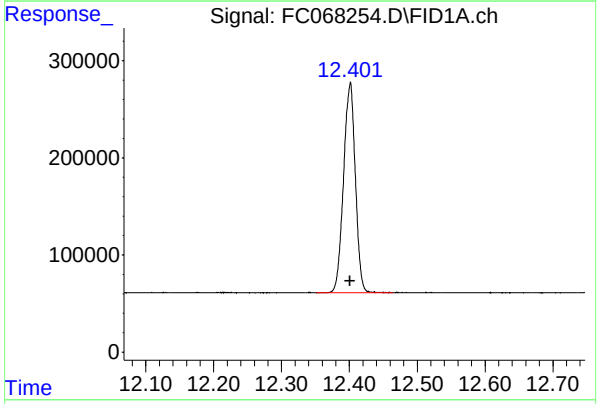
R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 2740539
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

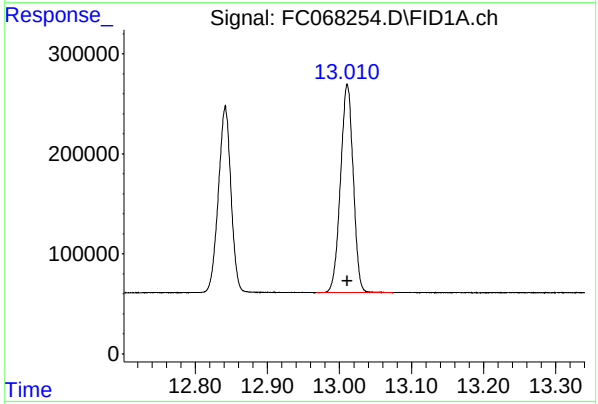
R.T.: 11.400 min
Delta R.T.: 0.000 min
Response: 3070458
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



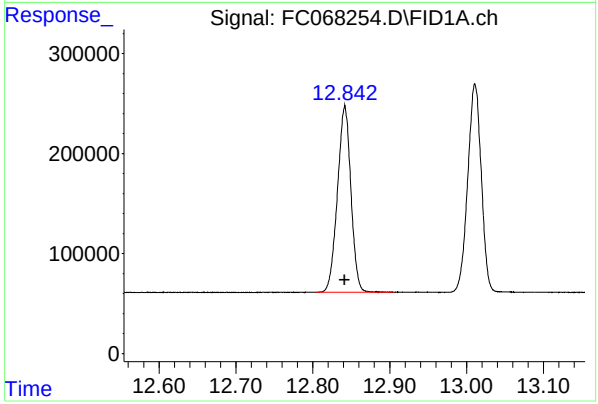
#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 2610929
Conc: 20.00 ug/ml



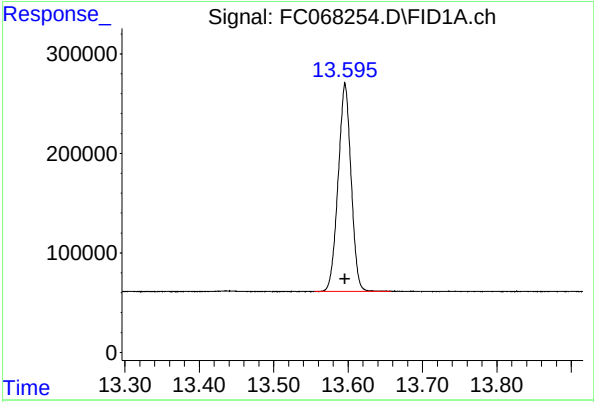
#11 n-Heneicosane (C21)

R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 2556207
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

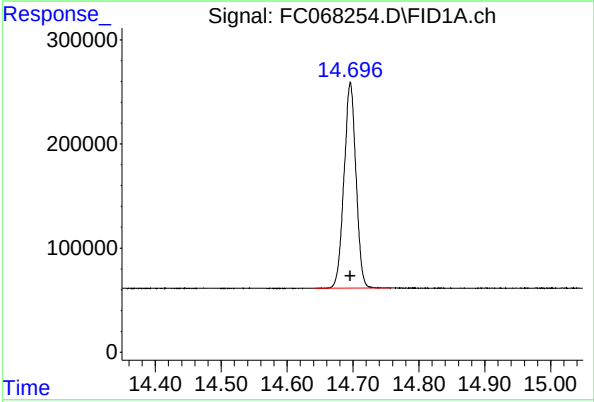
R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 2258872
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

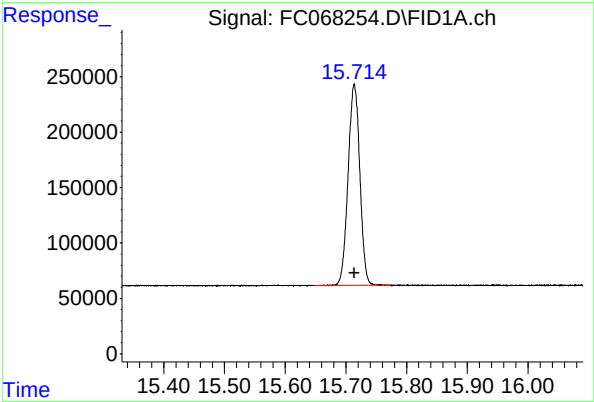
R.T.: 13.596 min
Delta R.T.: 0.000 min
Response: 2524938
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



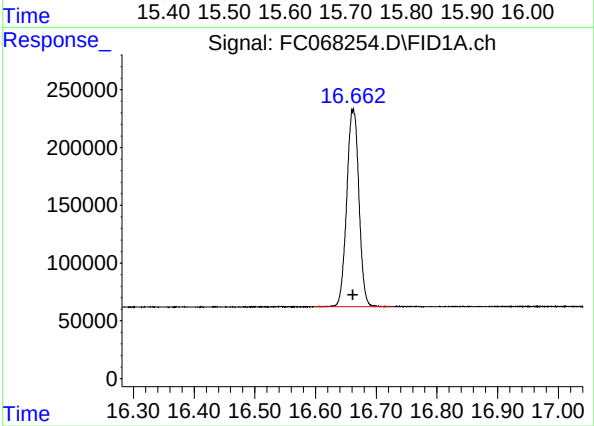
#14 n-Tetracosane (C24)

R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 2490472
Conc: 20.00 ug/ml



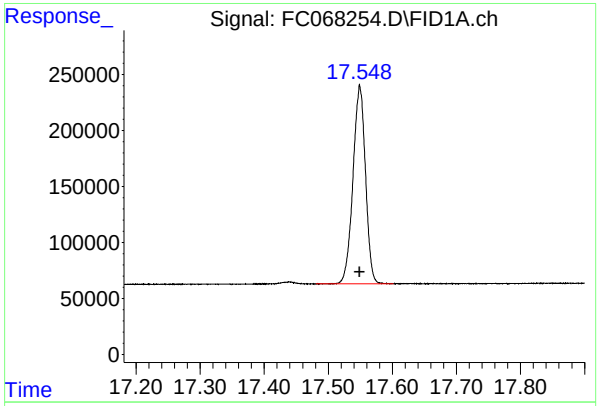
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2438036
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

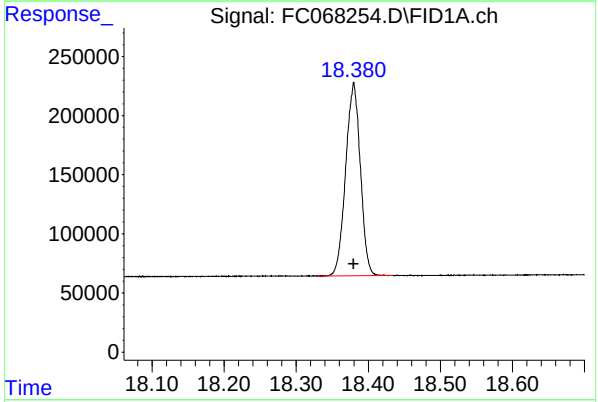
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2381498
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

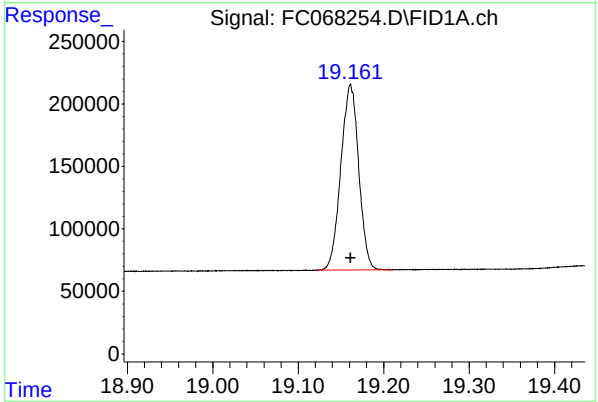
R.T.: 17.549 min
Delta R.T.: 0.000 min
Response: 2400071
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



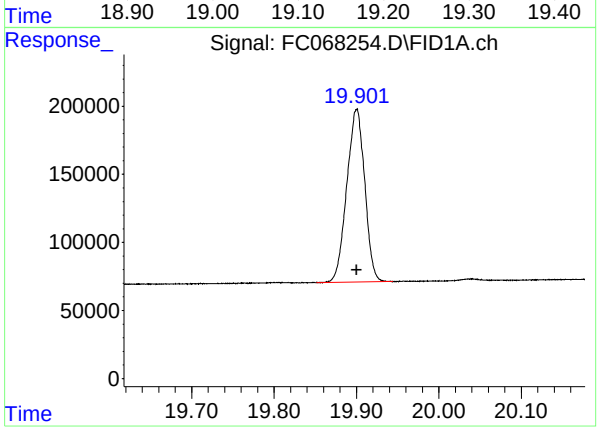
#18 n-Dotriacontane (C32)

R.T.: 18.380 min
Delta R.T.: 0.000 min
Response: 2311459
Conc: 20.00 ug/ml



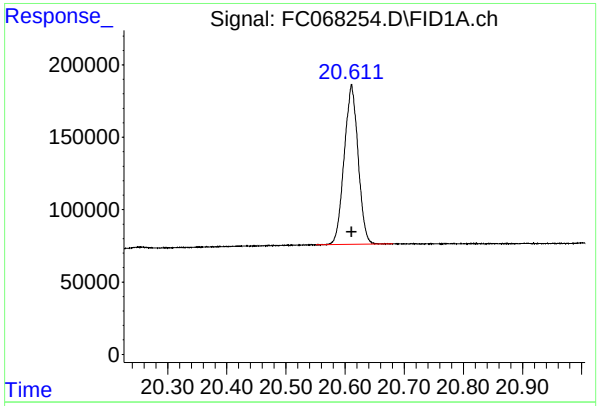
#19 n-Tetratriacontane (C34)

R.T.: 19.161 min
Delta R.T.: 0.000 min
Response: 2154239
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

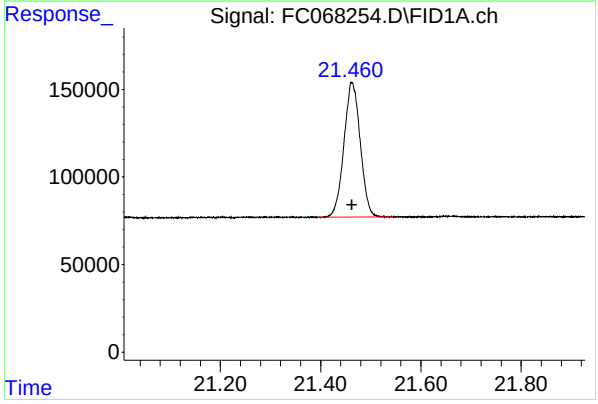
R.T.: 19.900 min
Delta R.T.: 0.000 min
Response: 1921336
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.611 min
Delta R.T.: 0.000 min
Response: 1804172
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.463 min
Delta R.T.: 0.000 min
Response: 1733236
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068254.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 17:38
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.208	3.174	3.271	BB	344103	2833506	91.55%	5.114%
2	4.265	4.234	4.328	BB	312569	2853357	92.19%	5.150%
3	5.831	5.798	5.914	BB	329933	3094970	100.00%	5.586%
4	6.273	6.234	6.334	BB	287834	2824656	91.27%	5.098%
5	6.884	6.848	6.971	BB	294443	2932900	94.76%	5.293%
6	8.062	8.028	8.124	BB	257216	2726217	88.09%	4.920%
7	9.657	9.621	9.724	BB	252359	2745870	88.72%	4.956%
8	11.095	11.058	11.158	BB	236897	2740539	88.55%	4.946%
9	11.400	11.361	11.451	BB	288971	3070458	99.21%	5.542%
10	12.401	12.351	12.464	BB	215019	2610929	84.36%	4.712%
11	12.842	12.804	12.904	BB	185197	2258872	72.99%	4.077%
12	13.011	12.968	13.074	BB	208305	2556207	82.59%	4.613%
13	13.596	13.554	13.658	BB	206427	2524938	81.58%	4.557%
14	14.696	14.641	14.758	BB	197006	2490472	80.47%	4.495%
15	15.714	15.648	15.774	BB	180907	2438036	78.77%	4.400%
16	16.662	16.598	16.724	BB	171177	2381498	76.95%	4.298%
17	17.549	17.481	17.601	BB	174807	2400071	77.55%	4.332%
18	18.380	18.328	18.434	BB	162329	2311459	74.68%	4.172%
19	19.161	19.121	19.211	BB	148420	2154239	69.60%	3.888%
20	19.900	19.851	19.944	BB	127484	1921336	62.08%	3.468%
21	20.611	20.551	20.681	BB	109957	1804172	58.29%	3.256%
22	21.463	21.391	21.544	BB	77234	1733236	56.00%	3.128%
			Sum of corrected areas:			55407934		

Aliphatic EPH 021125.M Tue Feb 11 02:39:47 2025

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:	10 Feb 2025 18:14
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068255.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.107	6.373	4474674.000	30.000	ug/ml
Aliphatic C12-C16	6.374	9.756	2866719.000	20.000	ug/ml
Aliphatic C16-C21	9.757	13.110	4144581.000	30.000	ug/ml
Aliphatic C21-C28	13.111	16.762	5144532.000	40.000	ug/ml
Aliphatic C28-C40	16.763	21.563	6514067.000	60.000	ug/ml
Aliphatic EPH	3.107		23144573.000	180.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 11 02:30:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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)	11.398	1614436	10.516 ug/ml
Spiked Amount	50.000		Recovery =	21.03%
12) S	1-chlorooctadecane (S...	12.840	1174811	10.402 ug/ml
Spiked Amount	50.000		Recovery =	20.80%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	1490390	10.520 ug/ml
2) T	n-Decane (C10)	4.265	1497516	10.497 ug/ml
3) T	A~Naphthalene (C11.7)	5.832	1604467	10.368 ug/ml
4) T	n-Dodecane (C12)	6.273	1486768	10.527 ug/ml
5) T	A~2-methylnaphthalene...	6.884	1503396	10.252 ug/ml
6) T	n-Tetradecane (C14)	8.061	1434684	10.525 ug/ml
7) T	n-Hexadecane (C16)	9.656	1432035	10.430 ug/ml
8) T	n-Octadecane (C18)	11.093	1433269	10.460 ug/ml
10) T	n-Eicosane (C20)	12.400	1367303	10.474 ug/ml
11) T	n-Heneicosane (C21)	13.010	1344009	10.516 ug/ml
13) T	n-Docosane (C22)	13.595	1321567	10.468 ug/ml
14) T	n-Tetracosane (C24)	14.695	1302068	10.456 ug/ml
15) T	n-Hexacosane (C26)	15.714	1273525	10.447 ug/ml
16) T	n-Octacosane (C28)	16.661	1247372	10.476 ug/ml
17) T	n-Tricontane (C30)	17.547	1280217	10.668 ug/ml
18) T	n-Dotriacontane (C32)	18.378	1224121	10.592 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	1138846	10.573 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	1016654	10.583 ug/ml
21) T	n-Octatriacontane (C38)	20.611	943380	10.458 ug/ml
22) T	n-Tetracontane (C40)	21.461	910849	10.510 ug/ml

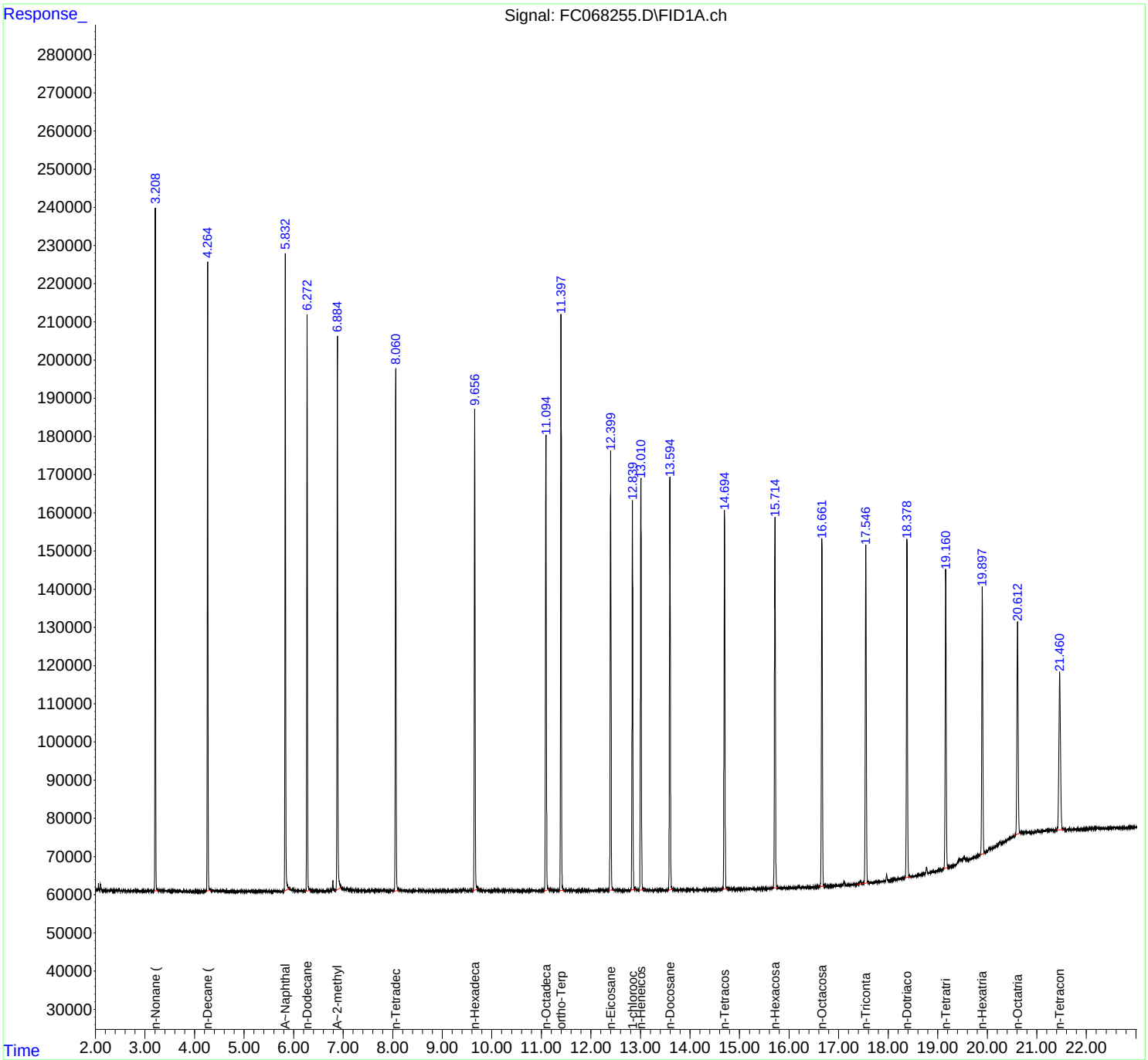
(f)=RT Delta > 1/2 Window (m)=manual int.

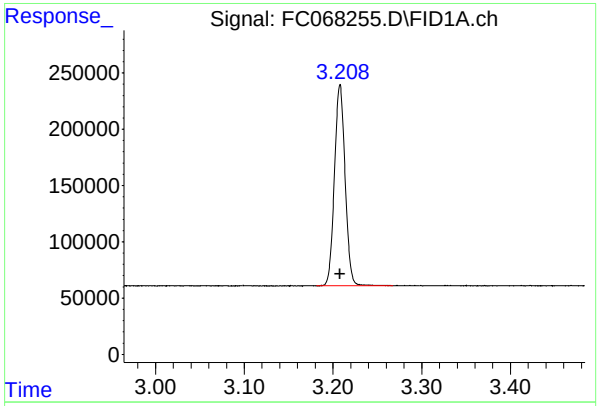
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 11 02:30:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

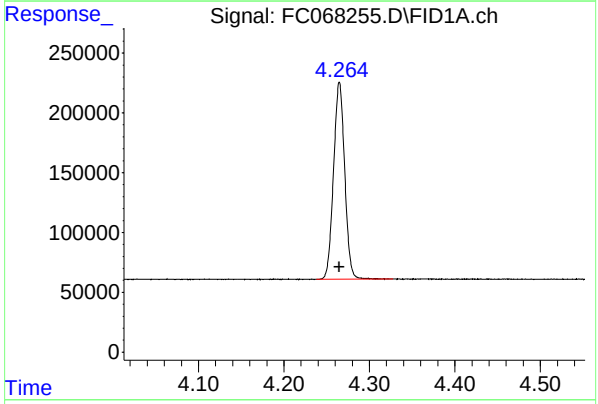




#1 n-Nonane (C9)

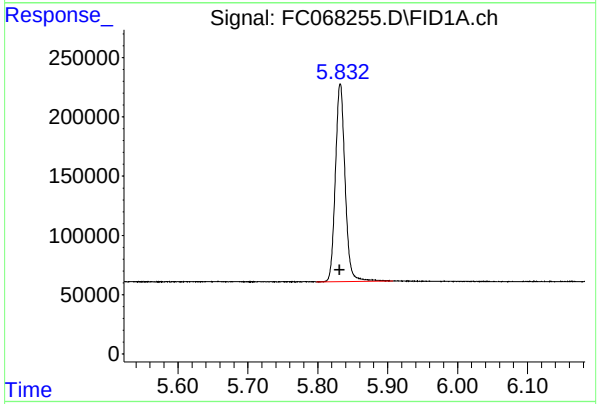
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 1490390
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



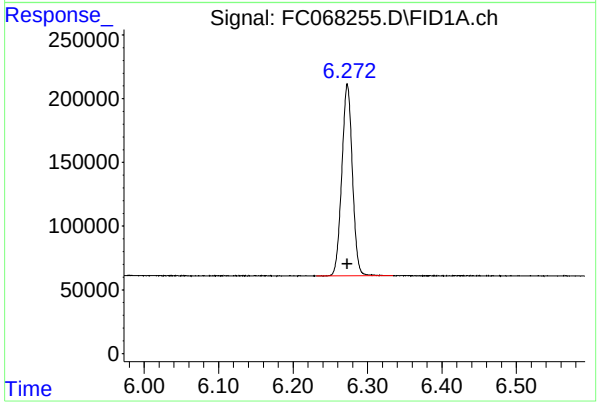
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 1497516
Conc: 10.50 ug/ml



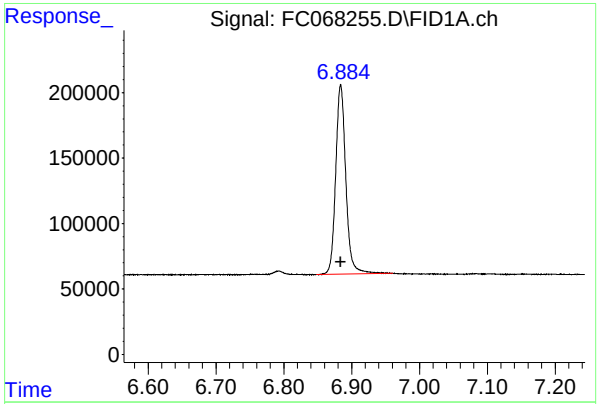
#3 A~Naphthalene (C11.7)

R.T.: 5.832 min
Delta R.T.: 0.000 min
Response: 1604467
Conc: 10.37 ug/ml



#4 n-Dodecane (C12)

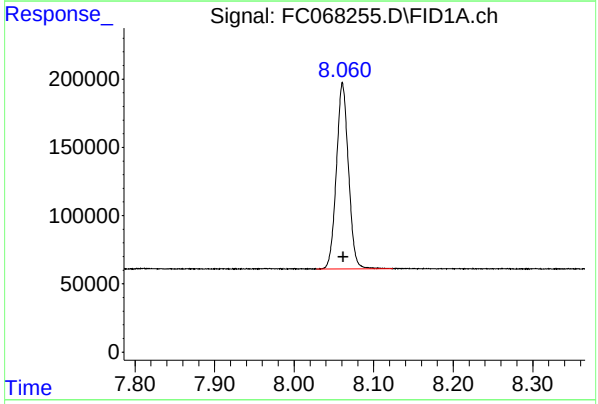
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 1486768
Conc: 10.53 ug/ml



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

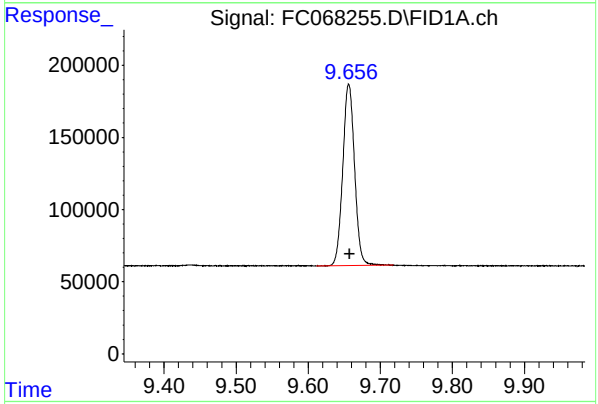
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 1503396
Conc: 10.25 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



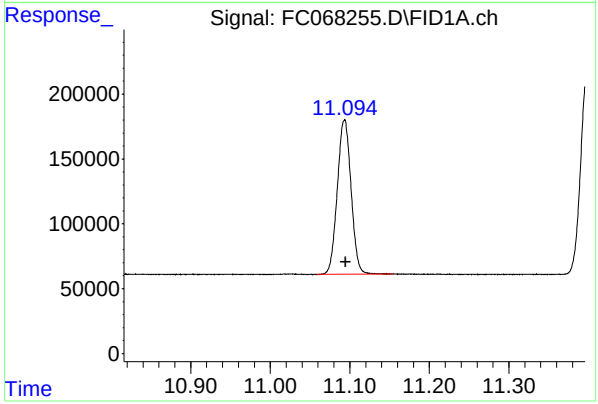
#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 1434684
Conc: 10.53 ug/ml



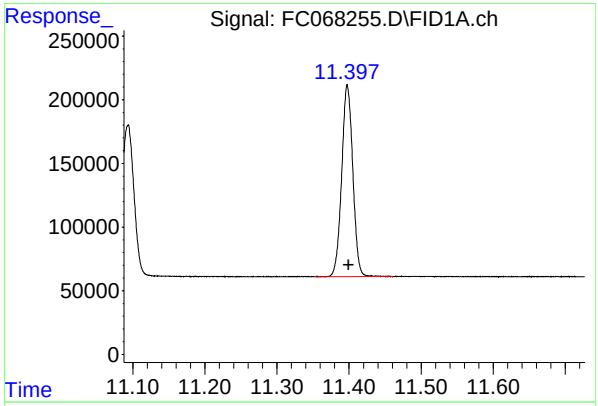
#7 n-Hexadecane (C16)

R.T.: 9.656 min
Delta R.T.: 0.000 min
Response: 1432035
Conc: 10.43 ug/ml



#8 n-Octadecane (C18)

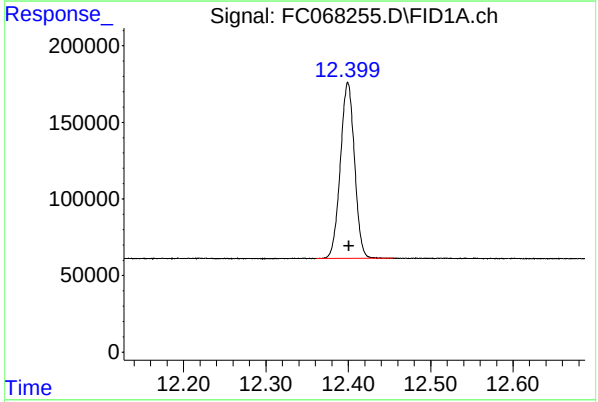
R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 1433269
Conc: 10.46 ug/ml



#9 ortho-Terphenyl (SURR)

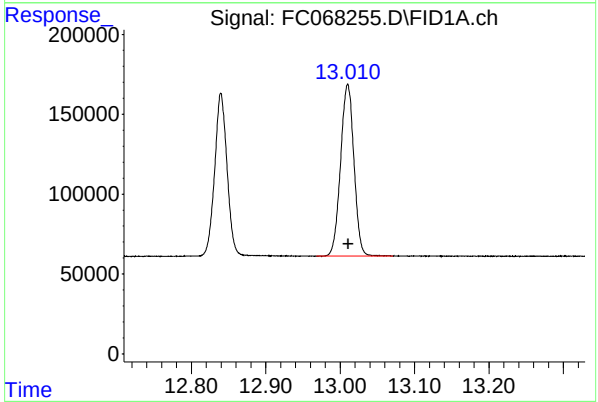
R.T.: 11.398 min
Delta R.T.: -0.002 min
Response: 1614436
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



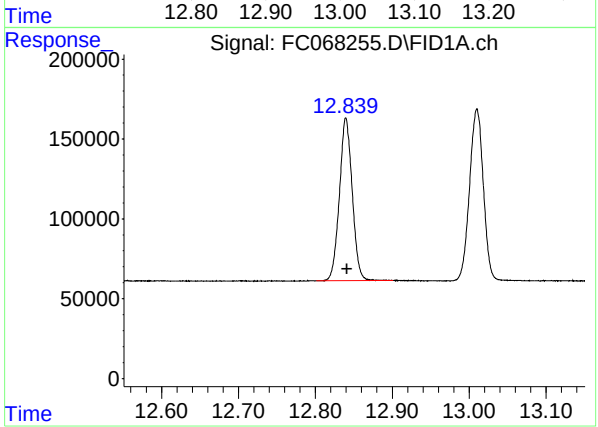
#10 n-Eicosane (C20)

R.T.: 12.400 min
Delta R.T.: -0.001 min
Response: 1367303
Conc: 10.47 ug/ml



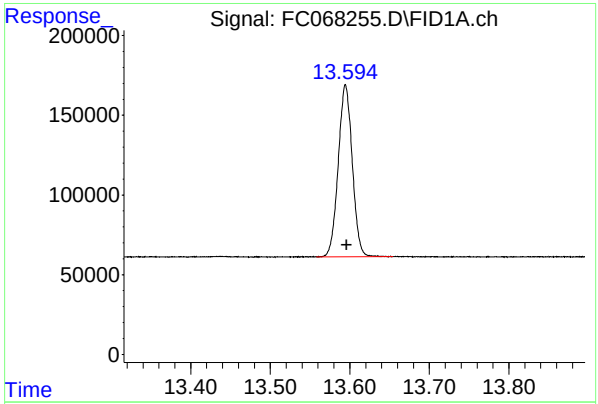
#11 n-Heneicosane (C21)

R.T.: 13.010 min
Delta R.T.: 0.000 min
Response: 1344009
Conc: 10.52 ug/ml



#12 1-chlorooctadecane (SURR)

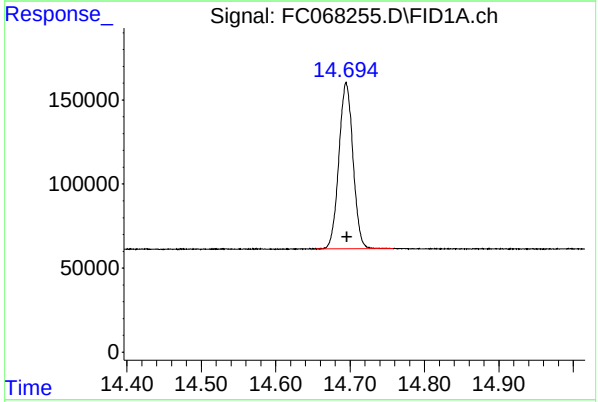
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 1174811
Conc: 10.40 ug/ml



#13 n-Docosane (C22)

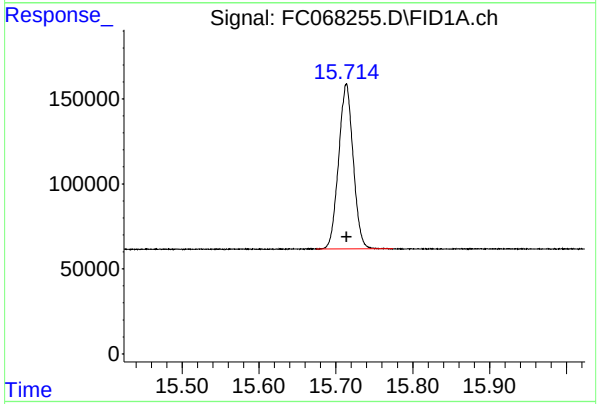
R.T.: 13.595 min
Delta R.T.: -0.001 min
Response: 1321567
Conc: 10.47 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



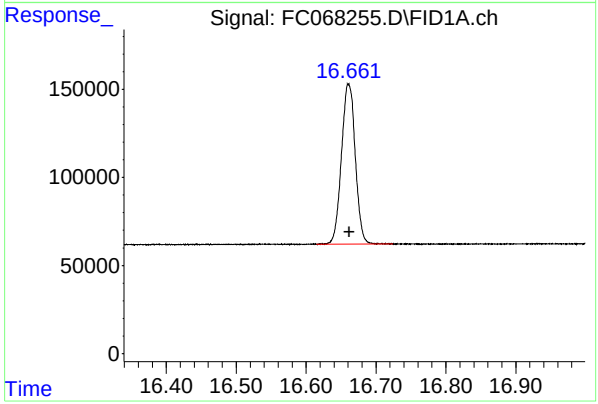
#14 n-Tetracosane (C24)

R.T.: 14.695 min
Delta R.T.: -0.001 min
Response: 1302068
Conc: 10.46 ug/ml



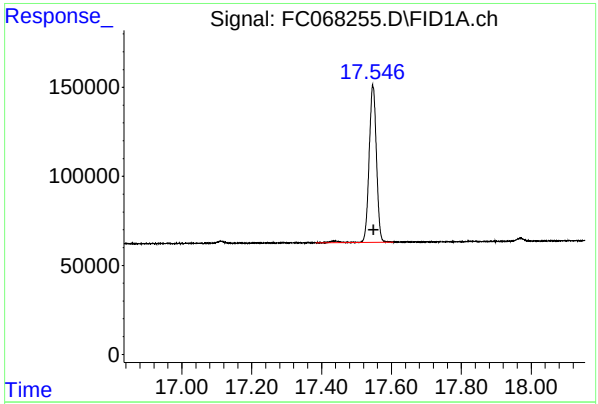
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 1273525
Conc: 10.45 ug/ml



#16 n-Octacosane (C28)

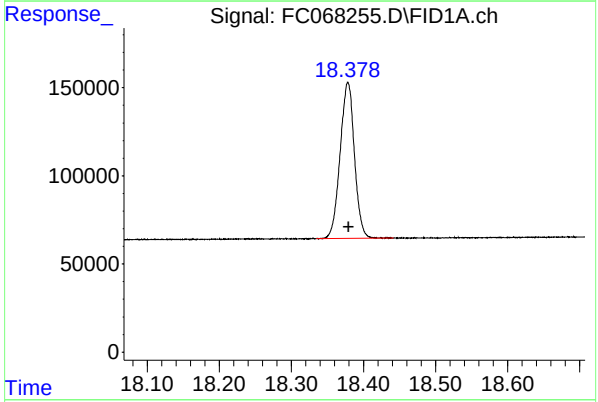
R.T.: 16.661 min
Delta R.T.: -0.001 min
Response: 1247372
Conc: 10.48 ug/ml



#17 n-Tricontane (C30)

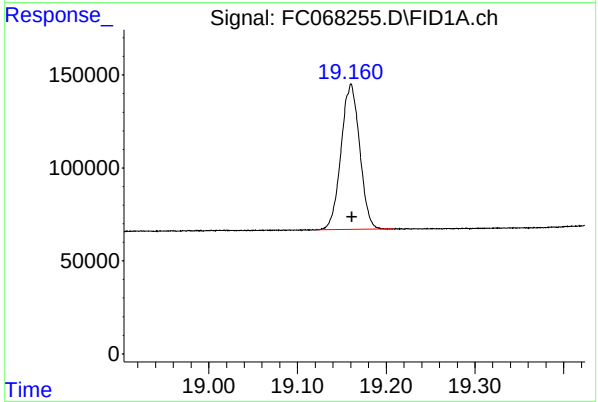
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 1280217
Conc: 10.67 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



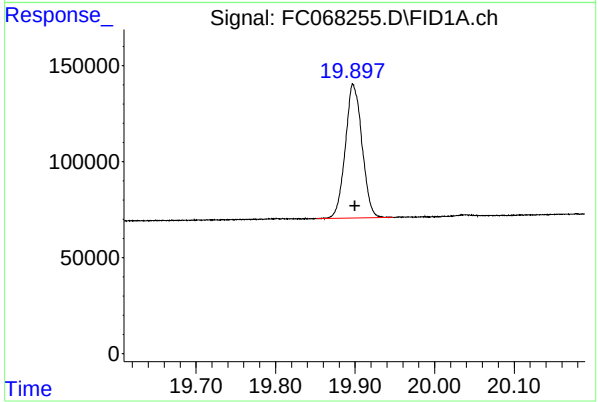
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.001 min
Response: 1224121
Conc: 10.59 ug/ml



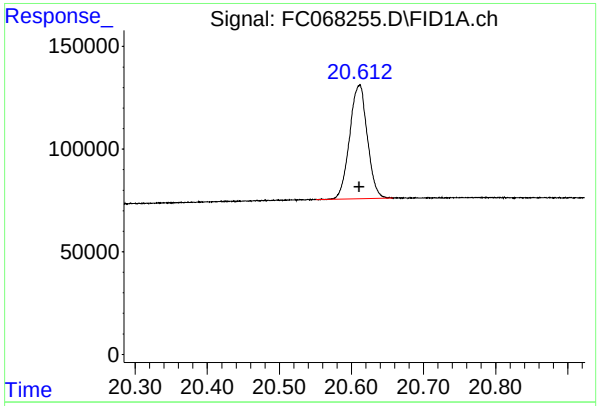
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: -0.001 min
Response: 1138846
Conc: 10.57 ug/ml



#20 n-Hexatriacontane (C36)

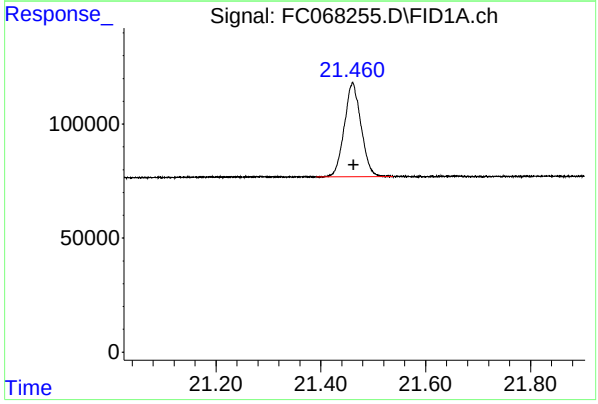
R.T.: 19.898 min
Delta R.T.: -0.002 min
Response: 1016654
Conc: 10.58 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.611 min
Delta R.T.: 0.000 mi
Response: 943380
Conc: 10.46 ug/m

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.461 min
Delta R.T.: -0.002 min
Response: 910849
Conc: 10.51 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068255.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:14
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.208	3.181	3.268	BB	177887	1490390	92.32%	5.132%
2	4.265	4.238	4.328	BB	163966	1497516	92.76%	5.156%
3	5.832	5.798	5.908	BB	166500	1604467	99.38%	5.525%
4	6.273	6.231	6.334	BB	149363	1486768	92.09%	5.119%
5	6.884	6.848	6.961	BB	144374	1503396	93.12%	5.177%
6	8.061	8.028	8.124	BB	135629	1434684	88.87%	4.940%
7	9.656	9.611	9.718	BB	125467	1432035	88.70%	4.931%
8	11.093	11.058	11.154	BB	119437	1433269	88.78%	4.935%
9	11.398	11.354	11.461	BB	150022	1614436	100.00%	5.559%
10	12.400	12.361	12.454	BB	114828	1367303	84.69%	4.708%
11	12.840	12.801	12.901	BB	100668	1174811	72.77%	4.045%
12	13.010	12.968	13.071	BB	107522	1344009	83.25%	4.628%
13	13.595	13.558	13.654	BB	107806	1321567	81.86%	4.551%
14	14.695	14.654	14.758	BB	98638	1302068	80.65%	4.483%
15	15.714	15.674	15.774	BB	97396	1273525	78.88%	4.385%
16	16.661	16.614	16.724	BB	90943	1247372	77.26%	4.295%
17	17.547	17.384	17.604	BB	87801	1280217	79.30%	4.408%
18	18.378	18.334	18.441	BB	88680	1224121	75.82%	4.215%
19	19.160	19.121	19.208	BB	78237	1138846	70.54%	3.921%
20	19.898	19.851	19.948	BB	69453	1016654	62.97%	3.501%
21	20.611	20.551	20.658	BB	55376	943380	58.43%	3.248%
22	21.461	21.391	21.538	BB	41390	910849	56.42%	3.136%
			Sum of corrected areas:			29041681		

Aliphatic EPH 021125.M Tue Feb 11 02:40:05 2025

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:	10 Feb 2025 18:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068256.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.107	6.373	2221877.000	15.000	ug/ml
Aliphatic C12-C16	6.374	9.756	1444048.000	10.000	ug/ml
Aliphatic C16-C21	9.757	13.110	2112599.000	15.000	ug/ml
Aliphatic C21-C28	13.111	16.762	2635031.000	20.000	ug/ml
Aliphatic C28-C40	16.763	21.563	3350978.000	30.000	ug/ml
Aliphatic EPH	3.107		11764533.000	90.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 11 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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)	11.397	824094	5.368 ug/ml
Spiked Amount	50.000		Recovery =	10.74%
12) S	1-chlorooctadecane (S...	12.840	593786	5.257 ug/ml
Spiked Amount	50.000		Recovery =	10.51%
	Target Compounds			
1) T	n-Nonane (C9)	3.208	739660	5.221 ug/ml
2) T	n-Decane (C10)	4.265	741867	5.200 ug/ml
3) T	A~Naphthalene (C11.7)	5.833	779725	5.039 ug/ml
4) T	n-Dodecane (C12)	6.273	740350	5.242 ug/ml
5) T	A~2-methylnaphthalene...	6.884	729676	4.976 ug/ml
6) T	n-Tetradecane (C14)	8.060	721115	5.290 ug/ml
7) T	n-Hexadecane (C16)	9.655	722933	5.266 ug/ml
8) T	n-Octadecane (C18)	11.093	728153	5.314 ug/ml
10) T	n-Eicosane (C20)	12.398	697130	5.340 ug/ml
11) T	n-Heneicosane (C21)	13.009	687316	5.378 ug/ml
13) T	n-Docosane (C22)	13.594	674382	5.342 ug/ml
14) T	n-Tetracosane (C24)	14.694	667971	5.364 ug/ml
15) T	n-Hexacosane (C26)	15.713	652733	5.355 ug/ml
16) T	n-Octacosane (C28)	16.660	639945	5.374 ug/ml
17) T	n-Tricontane (C30)	17.547	654656	5.455 ug/ml
18) T	n-Dotriacontane (C32)	18.378	639981	5.537 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	592586	5.502 ug/ml
20) T	n-Hexatriacontane (C36)	19.899	518944	5.402 ug/ml
21) T	n-Octatriacontane (C38)	20.609	485383	5.381 ug/ml
22) T	n-Tetracontane (C40)	21.462	459428	5.301 ug/ml

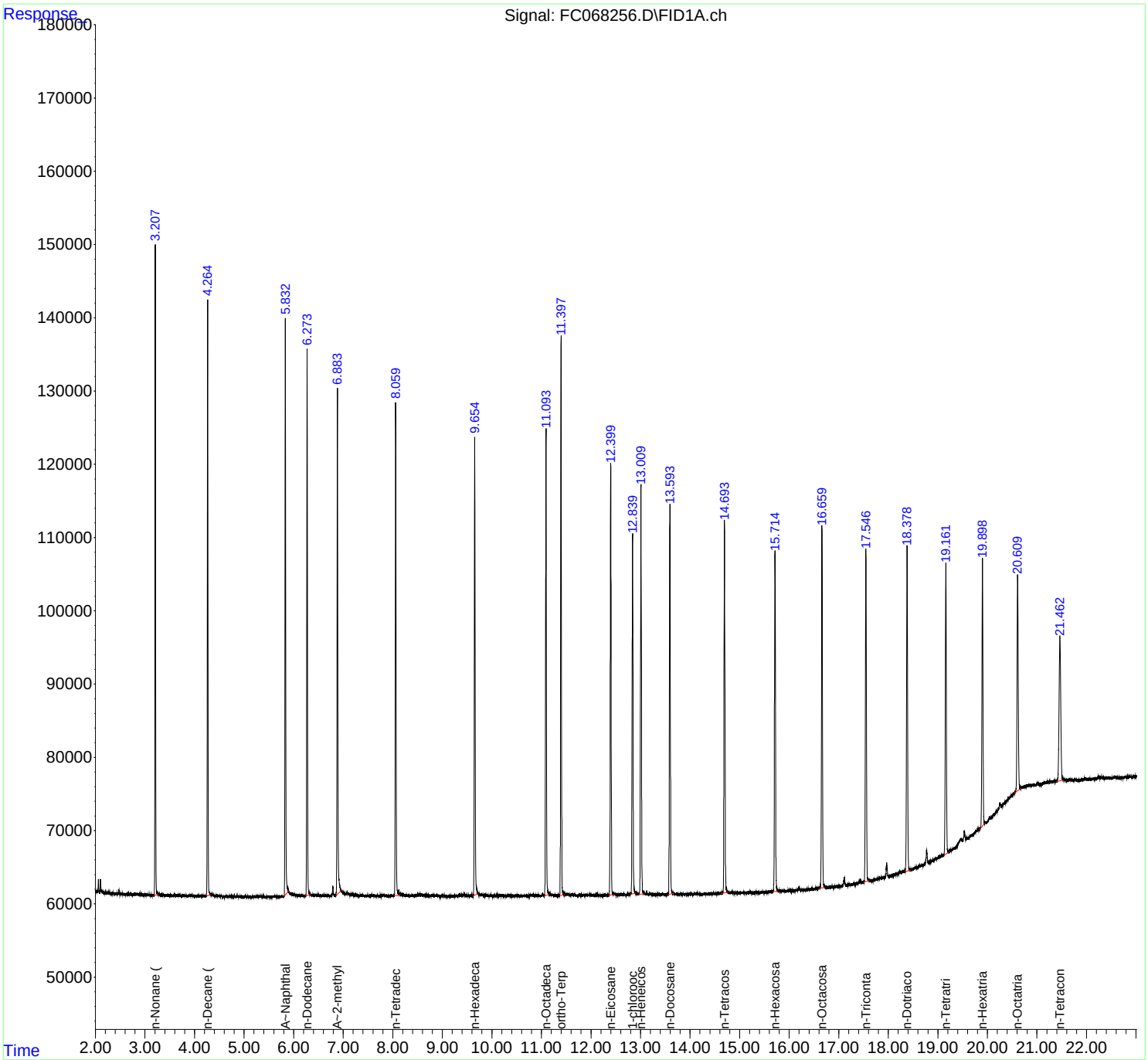
(f)=RT Delta > 1/2 Window (m)=manual int.

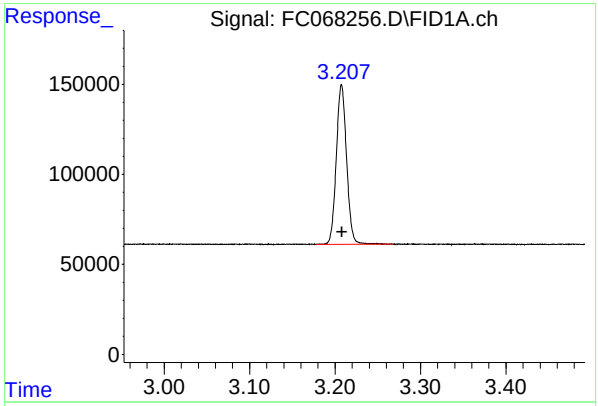
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 11 02:30:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

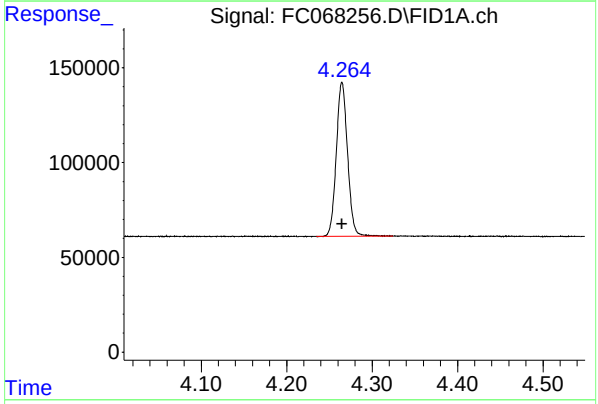




#1 n-Nonane (C9)

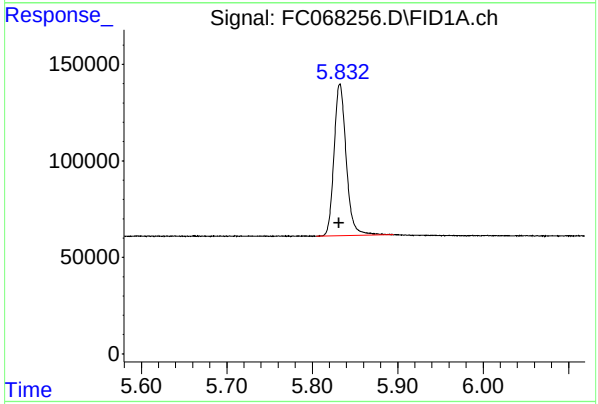
R.T.: 3.208 min
Delta R.T.: 0.000 min
Response: 739660
Conc: 5.22 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



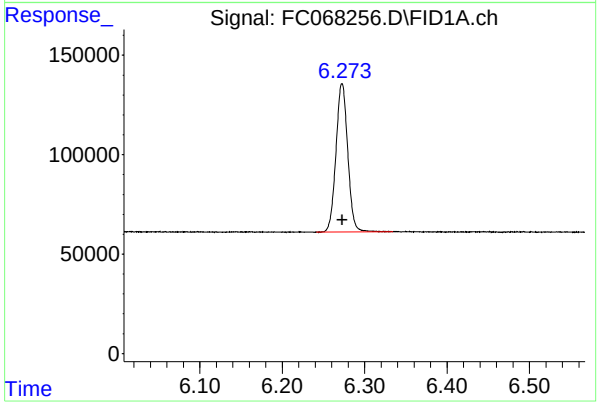
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 741867
Conc: 5.20 ug/ml



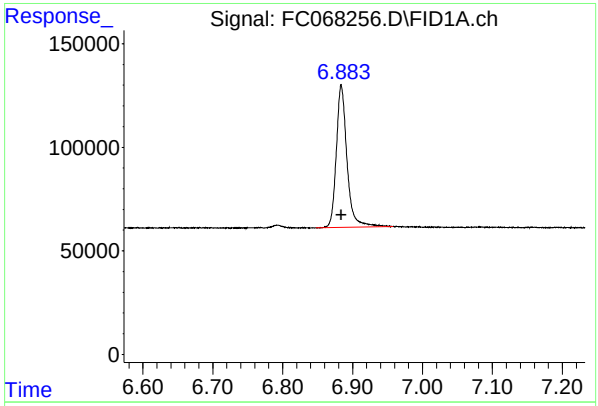
#3 A~Naphthalene (C11.7)

R.T.: 5.833 min
Delta R.T.: 0.001 min
Response: 779725
Conc: 5.04 ug/ml



#4 n-Dodecane (C12)

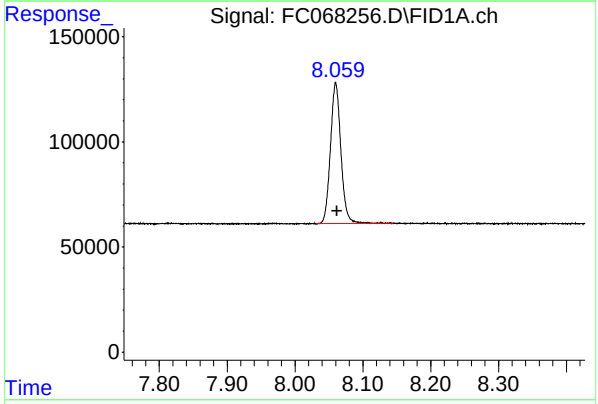
R.T.: 6.273 min
Delta R.T.: 0.000 min
Response: 740350
Conc: 5.24 ug/ml



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

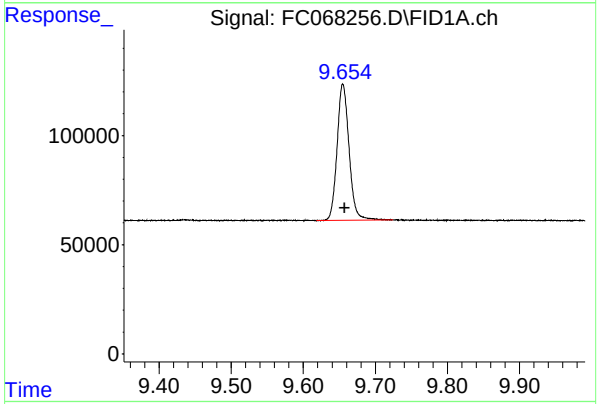
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 729676
Conc: 4.98 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



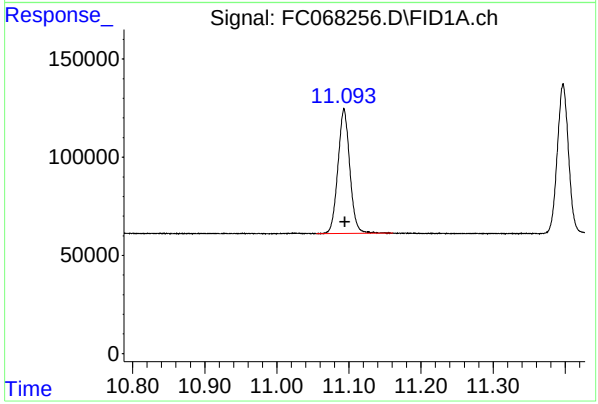
#6 n-Tetradecane (C14)

R.T.: 8.060 min
Delta R.T.: -0.002 min
Response: 721115
Conc: 5.29 ug/ml



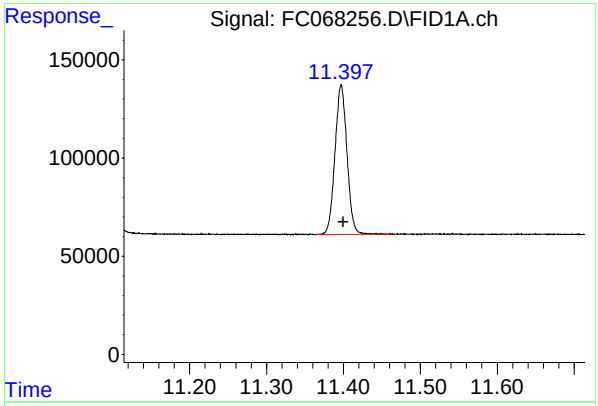
#7 n-Hexadecane (C16)

R.T.: 9.655 min
Delta R.T.: -0.002 min
Response: 722933
Conc: 5.27 ug/ml



#8 n-Octadecane (C18)

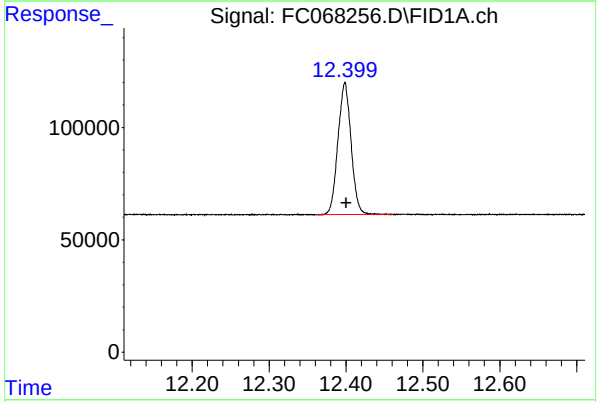
R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 728153
Conc: 5.31 ug/ml



#9 ortho-Terphenyl (SURR)

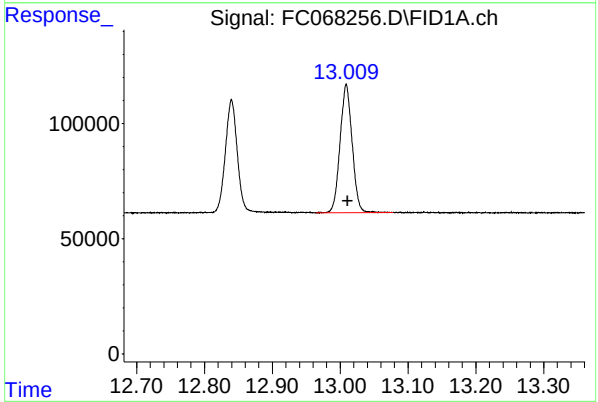
R.T.: 11.397 min
Delta R.T.: -0.003 min
Response: 824094
Conc: 5.37 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



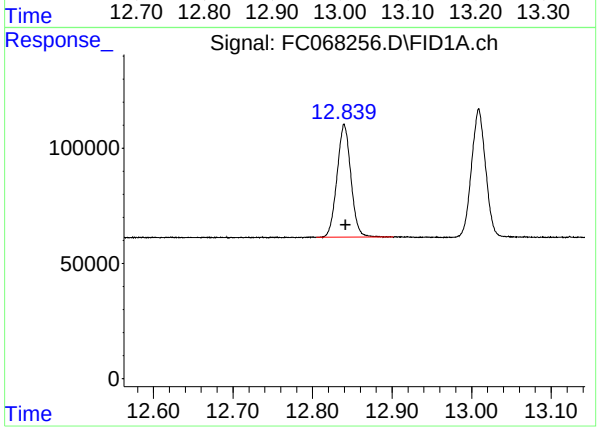
#10 n-Eicosane (C20)

R.T.: 12.398 min
Delta R.T.: -0.002 min
Response: 697130
Conc: 5.34 ug/ml



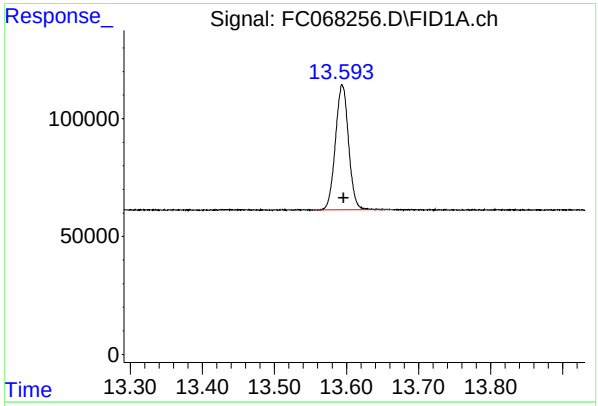
#11 n-Heneicosane (C21)

R.T.: 13.009 min
Delta R.T.: -0.002 min
Response: 687316
Conc: 5.38 ug/ml



#12 1-chlorooctadecane (SURR)

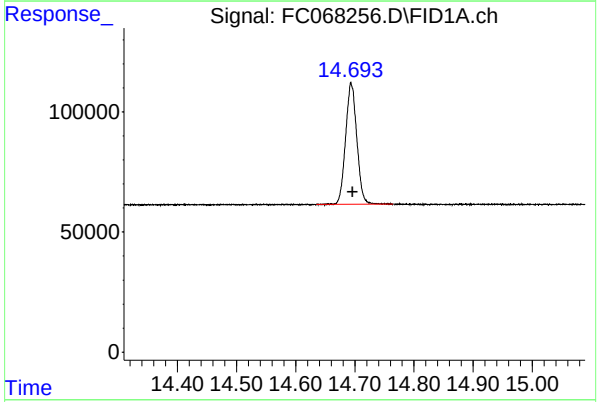
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 593786
Conc: 5.26 ug/ml



#13 n-Docosane (C22)

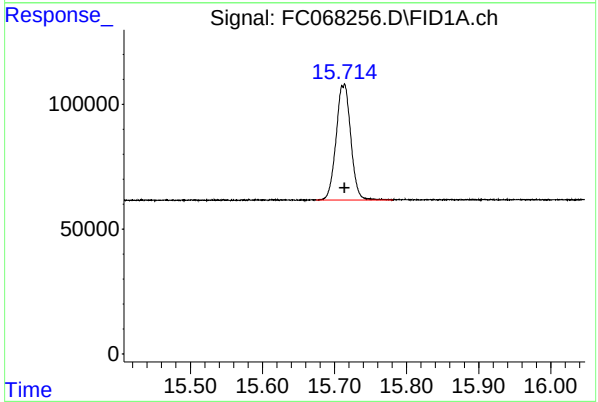
R.T.: 13.594 min
Delta R.T.: -0.002 min
Response: 674382
Conc: 5.34 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



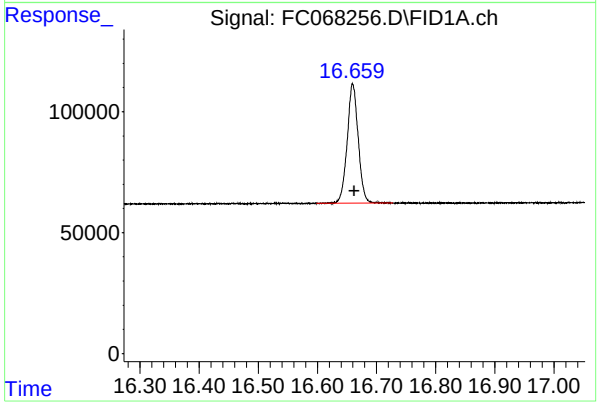
#14 n-Tetracosane (C24)

R.T.: 14.694 min
Delta R.T.: -0.002 min
Response: 667971
Conc: 5.36 ug/ml



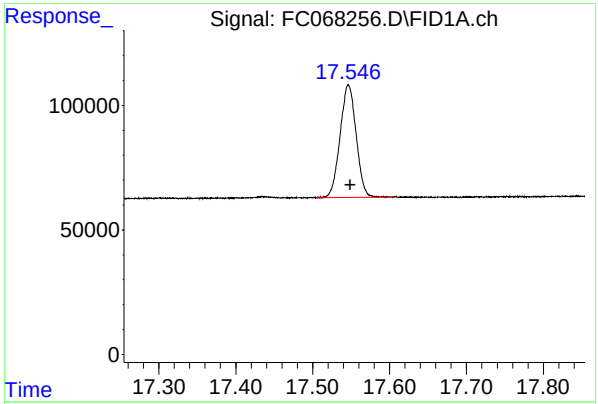
#15 n-Hexacosane (C26)

R.T.: 15.713 min
Delta R.T.: -0.001 min
Response: 652733
Conc: 5.35 ug/ml



#16 n-Octacosane (C28)

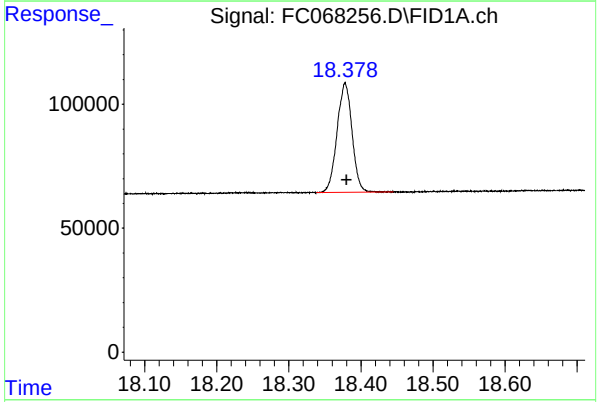
R.T.: 16.660 min
Delta R.T.: -0.002 min
Response: 639945
Conc: 5.37 ug/ml



#17 n-Tricontane (C30)

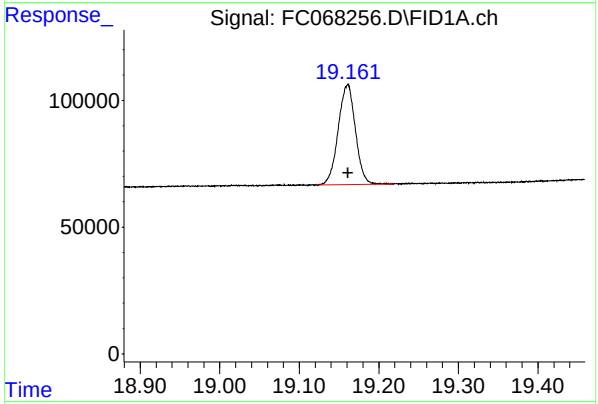
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 654656
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



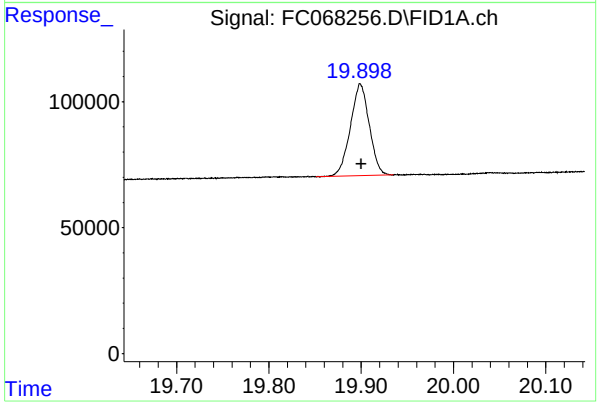
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.002 min
Response: 639981
Conc: 5.54 ug/ml



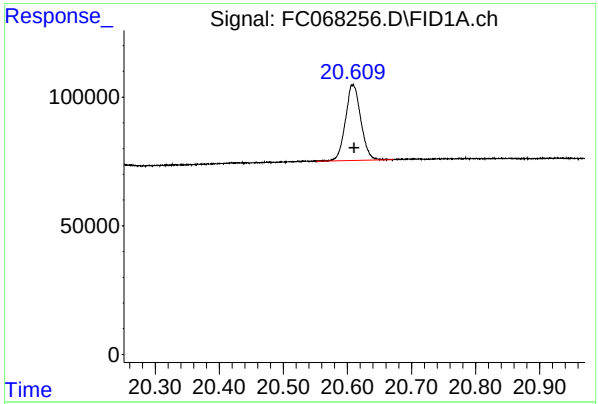
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: 0.000 min
Response: 592586
Conc: 5.50 ug/ml



#20 n-Hexatriacontane (C36)

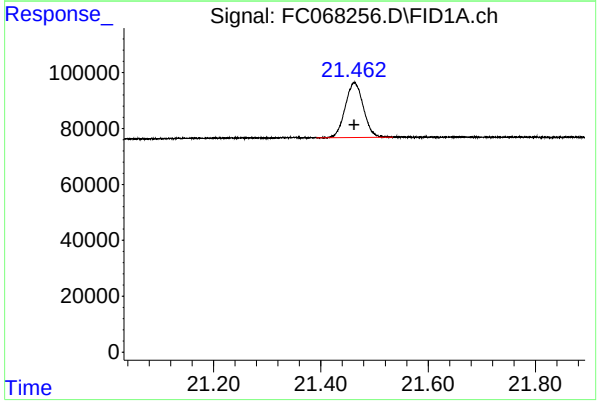
R.T.: 19.899 min
Delta R.T.: 0.000 min
Response: 518944
Conc: 5.40 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.609 min
Delta R.T.: -0.002 min
Response: 485383
Conc: 5.38 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.462 min
Delta R.T.: 0.000 min
Response: 459428
Conc: 5.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068256.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 18:50
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.208	3.178	3.268	BB	88225	739660	89.75%	5.035%
2	4.265	4.234	4.324	BB	81016	741867	90.02%	5.050%
3	5.833	5.804	5.894	BB	78603	779725	94.62%	5.307%
4	6.273	6.241	6.334	BB	74589	740350	89.84%	5.039%
5	6.884	6.848	6.958	BB	68142	729676	88.54%	4.967%
6	8.060	8.031	8.144	BB	66668	721115	87.50%	4.908%
7	9.655	9.618	9.724	BB	62427	722933	87.72%	4.921%
8	11.093	11.054	11.161	BB	62811	728153	88.36%	4.956%
9	11.397	11.364	11.464	BB	75900	824094	100.00%	5.609%
10	12.398	12.361	12.461	BB	58302	697130	84.59%	4.745%
11	12.840	12.804	12.901	BB	48610	593786	72.05%	4.042%
12	13.009	12.964	13.078	BB	55281	687316	83.40%	4.678%
13	13.594	13.558	13.664	BB	53078	674382	81.83%	4.590%
14	14.694	14.634	14.764	BB	50164	667971	81.06%	4.547%
15	15.713	15.674	15.781	BB	46241	652733	79.21%	4.443%
16	16.660	16.598	16.728	BB	48962	639945	77.65%	4.356%
17	17.547	17.504	17.604	BB	44994	654656	79.44%	4.456%
18	18.378	18.338	18.444	BB	44176	639981	77.66%	4.356%
19	19.160	19.121	19.218	BB	39586	592586	71.91%	4.033%
20	19.899	19.851	19.934	BB	36345	518944	62.97%	3.532%
21	20.609	20.551	20.671	BB	29349	485383	58.90%	3.304%
22	21.462	21.391	21.534	BB	19678	459428	55.75%	3.127%
			Sum of corrected areas:			14691811		

Aliphatic EPH 021125.M Tue Feb 11 02:40:20 2025

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:	10 Feb 2025 19:26
Client Sample ID:	20 PPM ALIPHATIC HC S'	Operator:	YP/AJ
Data file:	FC068257.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.107	6.373	11335983	80.377	300	ug/ml
Aliphatic C12-C16	6.374	9.756	8213202	60.102	200	ug/ml
Aliphatic C16-C21	9.757	13.110	7719624	58.646	300	ug/ml
Aliphatic C21-C28	13.111	16.762	9669480	78.811	400	ug/ml
Aliphatic C28-C40	16.763	21.563	12147282	118.111	600	ug/ml
Aliphatic EPH	3.107	21.563	49085571	396.047		ug/ml
ortho-Terphenyl (SURR)	11.399	11.399	3006153	19.59		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	2210712	19.66		ug/ml
Aliphatic C9-C28	3.107	16.762	36938289	277.936	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Feb 11 02:33:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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)	11.399	3006153	19.591 ug/ml
Spiked Amount	50.000		Recovery =	39.18%
12) S	1-chlorooctadecane (S...	12.841	2210712	19.655 ug/ml
Spiked Amount	50.000		Recovery =	39.31%
	Target Compounds			
1) T	n-Nonane (C9)	3.207	2763389	19.644 ug/ml
2) T	n-Decane (C10)	4.265	2787474	19.676 ug/ml
3) T	A~Naphthalene (C11.7)	5.832	3022645	19.751 ug/ml
4) T	n-Dodecane (C12)	6.274	2762475	19.626 ug/ml
5) T	A~2-methylnaphthalene...	6.884	2871264	19.825 ug/ml
6) T	n-Tetradecane (C14)	8.061	2665240	19.548 ug/ml
7) T	n-Hexadecane (C16)	9.657	2676698	19.543 ug/ml
8) T	n-Octadecane (C18)	11.095	2671678	19.536 ug/ml
10) T	n-Eicosane (C20)	12.401	2547036	19.549 ug/ml
11) T	n-Heneicosane (C21)	13.011	2500910	19.562 ug/ml
13) T	n-Docosane (C22)	13.595	2472408	19.618 ug/ml
14) T	n-Tetracosane (C24)	14.696	2447601	19.679 ug/ml
15) T	n-Hexacosane (C26)	15.714	2396918	19.713 ug/ml
16) T	n-Octacosane (C28)	16.662	2352553	19.808 ug/ml
17) T	n-Tricontane (C30)	17.548	2368324	19.676 ug/ml
18) T	n-Dotriacontane (C32)	18.379	2282342	19.664 ug/ml
19) T	n-Tetratriacontane (C34)	19.160	2121381	19.632 ug/ml
20) T	n-Hexatriacontane (C36)	19.898	1897153	19.727 ug/ml
21) T	n-Octatriacontane (C38)	20.609	1768616	19.674 ug/ml
22) T	n-Tetracontane (C40)	21.462	1709466	19.758 ug/ml

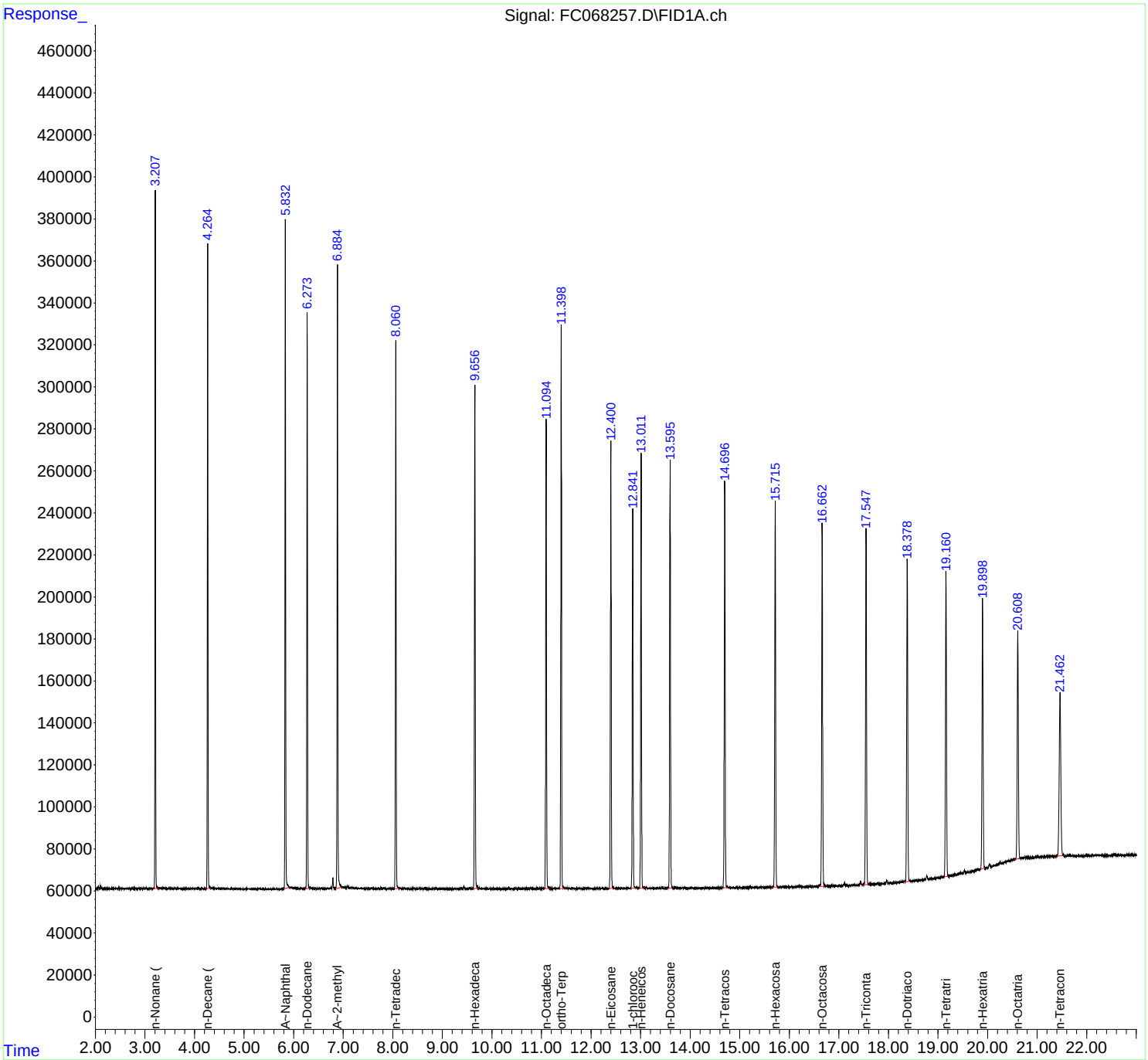
(f)=RT Delta > 1/2 Window (m)=manual int.

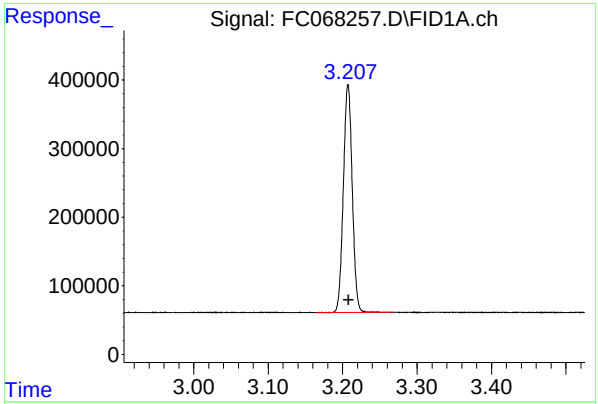
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Feb 11 02:33:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

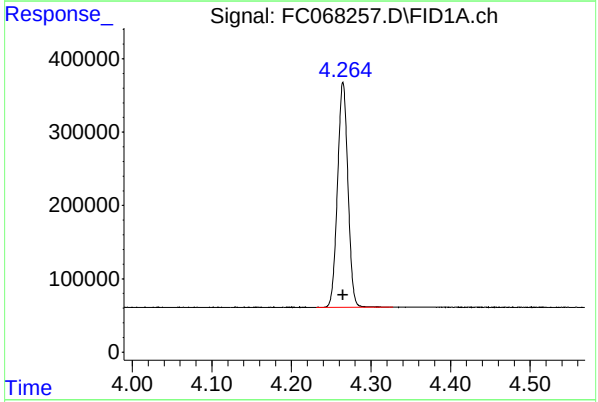




#1 n-Nonane (C9)

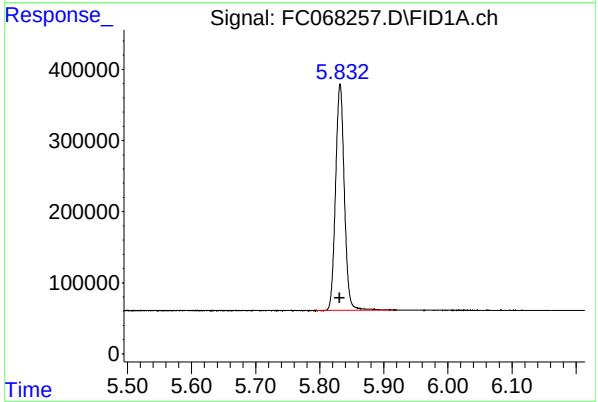
R.T.: 3.207 min
Delta R.T.: 0.000 min
Response: 2763389
Conc: 19.64 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



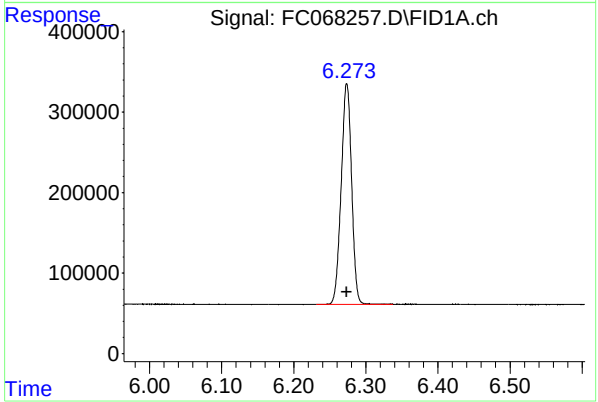
#2 n-Decane (C10)

R.T.: 4.265 min
Delta R.T.: 0.000 min
Response: 2787474
Conc: 19.68 ug/ml



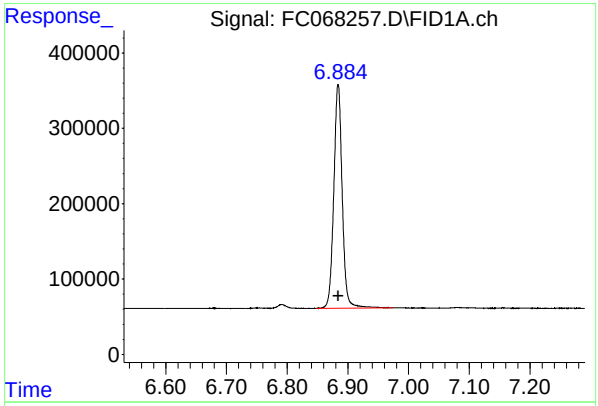
#3 A~Naphthalene (C11.7)

R.T.: 5.832 min
Delta R.T.: 0.000 min
Response: 3022645
Conc: 19.75 ug/ml



#4 n-Dodecane (C12)

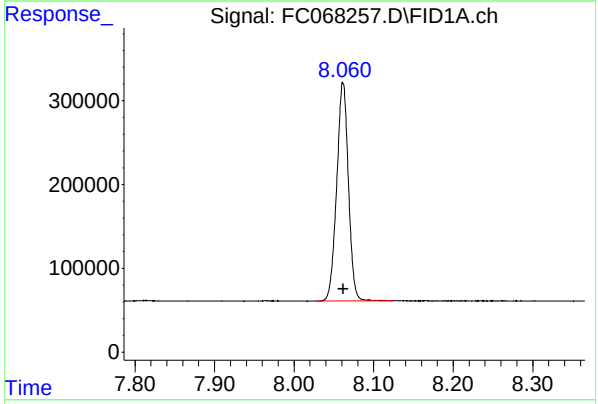
R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 2762475
Conc: 19.63 ug/ml



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

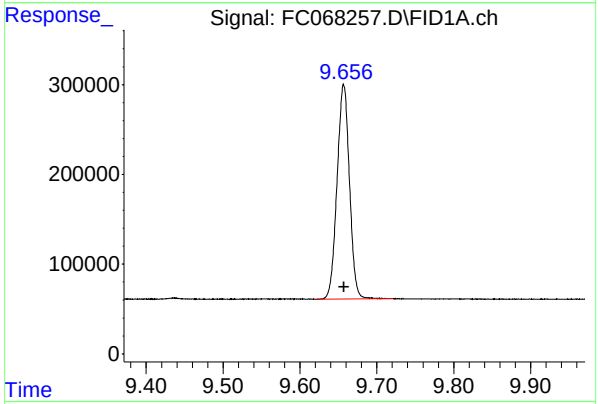
R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 2871264
Conc: 19.83 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



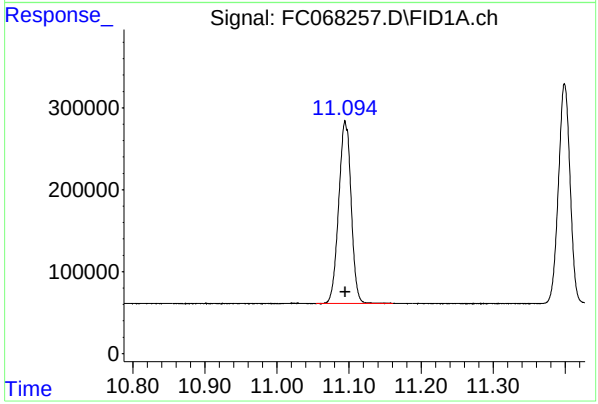
#6 n-Tetradecane (C14)

R.T.: 8.061 min
Delta R.T.: 0.000 min
Response: 2665240
Conc: 19.55 ug/ml



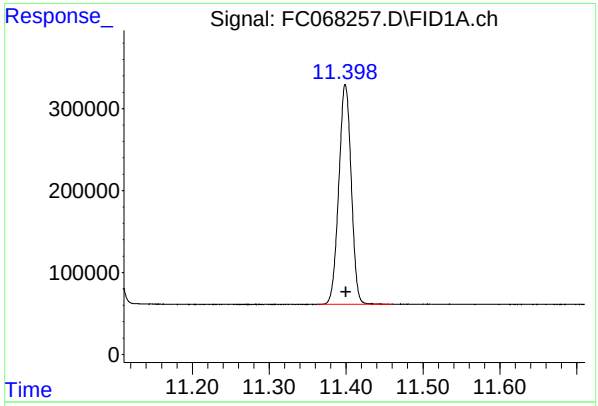
#7 n-Hexadecane (C16)

R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 2676698
Conc: 19.54 ug/ml



#8 n-Octadecane (C18)

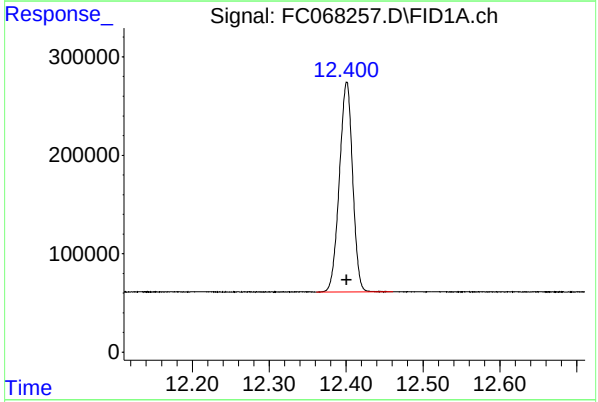
R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 2671678
Conc: 19.54 ug/ml



#9 ortho-Terphenyl (SURR)

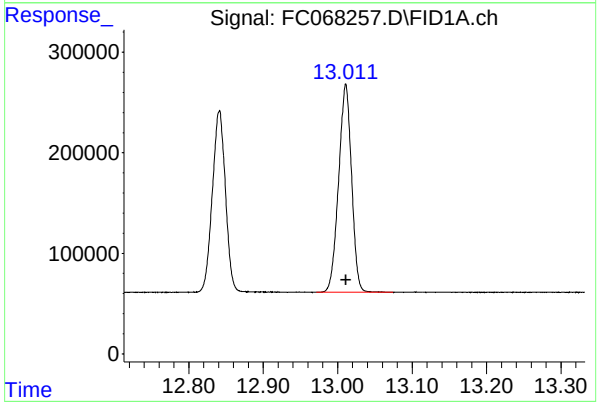
R.T.: 11.399 min
Delta R.T.: 0.000 min
Response: 3006153
Conc: 19.59 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



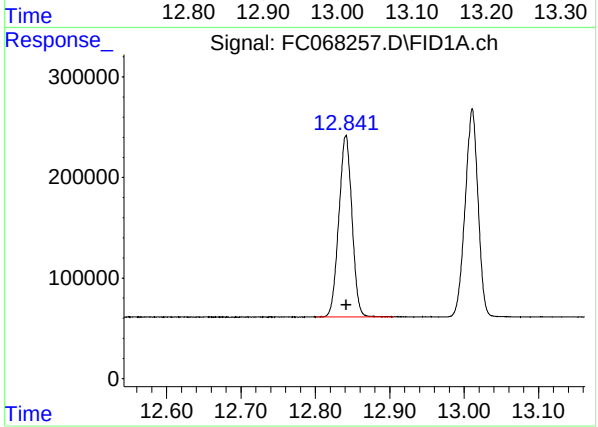
#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 2547036
Conc: 19.55 ug/ml



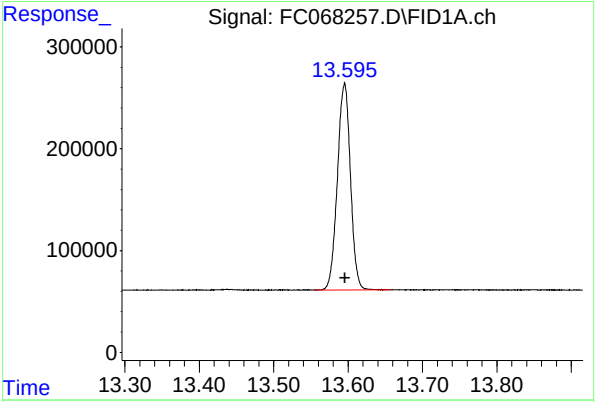
#11 n-Heneicosane (C21)

R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 2500910
Conc: 19.56 ug/ml



#12 1-chlorooctadecane (SURR)

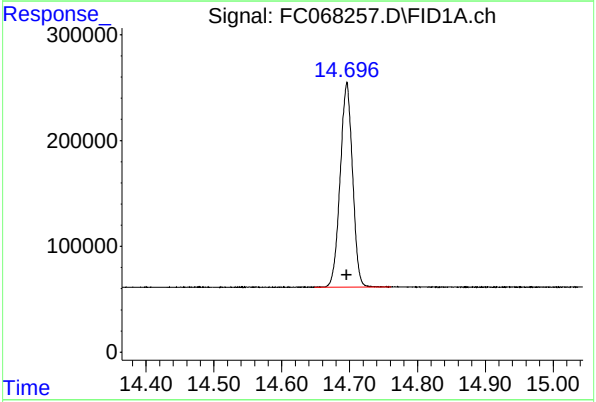
R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 2210712
Conc: 19.66 ug/ml



#13 n-Docosane (C22)

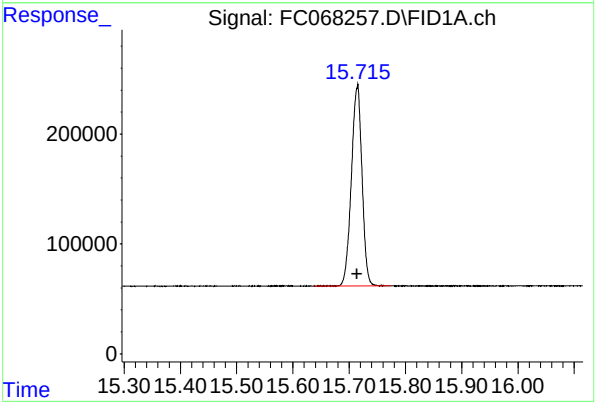
R.T.: 13.595 min
Delta R.T.: 0.000 min
Response: 2472408
Conc: 19.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



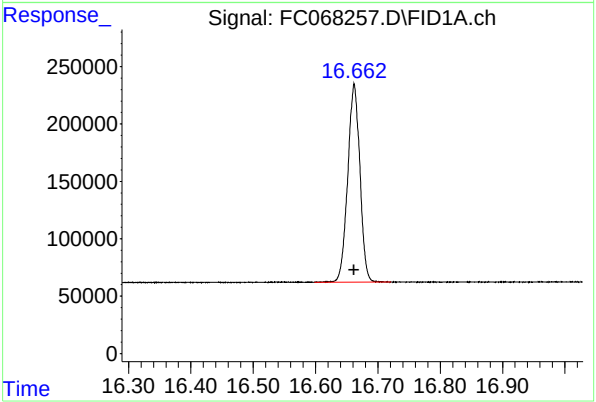
#14 n-Tetracosane (C24)

R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 2447601
Conc: 19.68 ug/ml



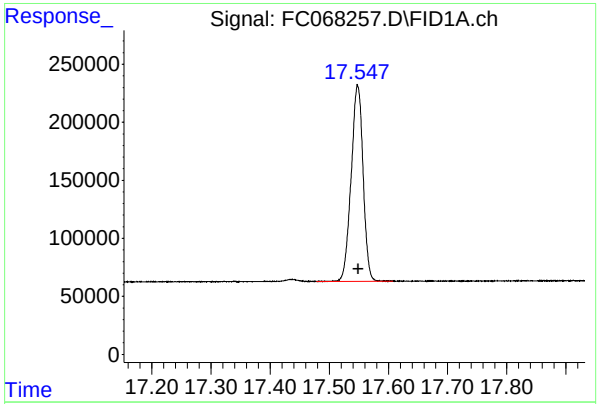
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2396918
Conc: 19.71 ug/ml



#16 n-Octacosane (C28)

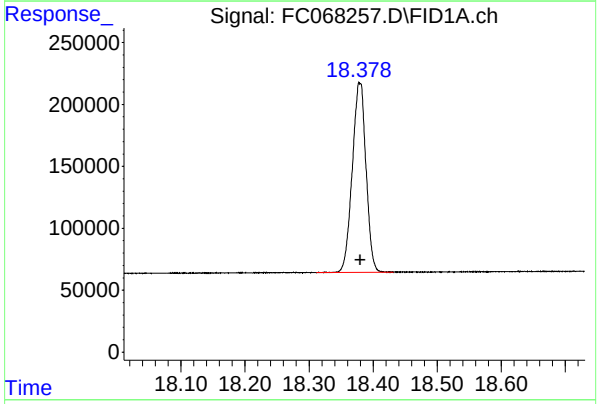
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2352553
Conc: 19.81 ug/ml



#17 n-Tricontane (C30)

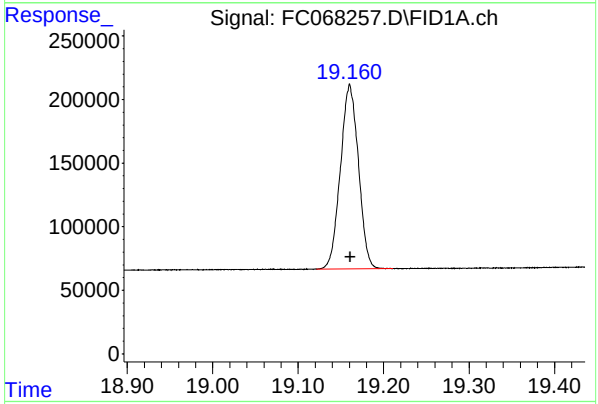
R.T.: 17.548 min
Delta R.T.: -0.001 min
Response: 2368324
Conc: 19.68 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



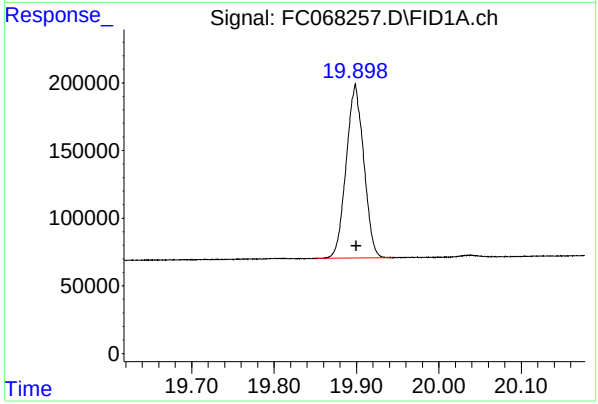
#18 n-Dotriacontane (C32)

R.T.: 18.379 min
Delta R.T.: 0.000 min
Response: 2282342
Conc: 19.66 ug/ml



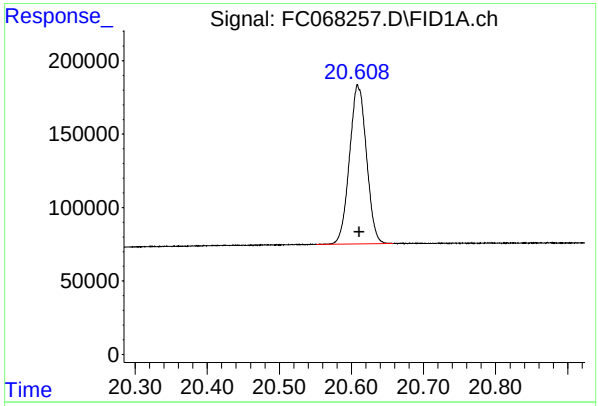
#19 n-Tetratriacontane (C34)

R.T.: 19.160 min
Delta R.T.: 0.000 min
Response: 2121381
Conc: 19.63 ug/ml



#20 n-Hexatriacontane (C36)

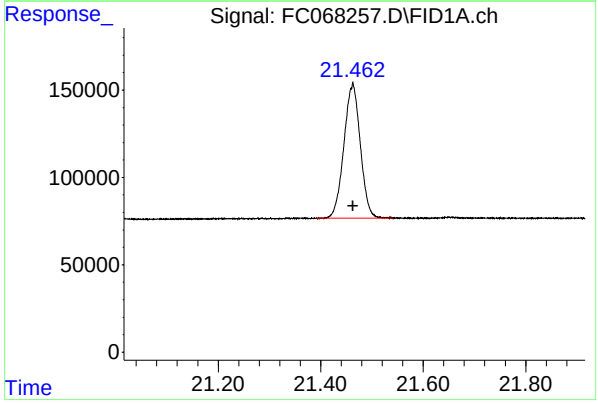
R.T.: 19.898 min
Delta R.T.: -0.002 min
Response: 1897153
Conc: 19.73 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.609 min
Delta R.T.: -0.002 mi
Response: 1768616
Conc: 19.67 ug/m

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.462 min
Delta R.T.: 0.000 min
Response: 1709466
Conc: 19.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068257.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 19:26
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.207	3.164	3.268	BB	332094	2763389	91.42%	5.089%
2	4.265	4.231	4.328	BB	306680	2787474	92.22%	5.133%
3	5.832	5.794	5.914	BB	316234	3022645	100.00%	5.566%
4	6.274	6.231	6.338	BB	274740	2762475	91.39%	5.087%
5	6.884	6.848	6.974	BB	297539	2871264	94.99%	5.288%
6	8.061	8.028	8.124	BB	260997	2665240	88.18%	4.908%
7	9.657	9.621	9.721	BB	239943	2676698	88.55%	4.929%
8	11.095	11.054	11.161	BB	222508	2671678	88.39%	4.920%
9	11.399	11.361	11.461	BB	268482	3006153	99.45%	5.536%
10	12.401	12.361	12.461	BB	214041	2547036	84.27%	4.690%
11	12.841	12.801	12.904	BB	180766	2210712	73.14%	4.071%
12	13.011	12.971	13.074	BB	207142	2500910	82.74%	4.606%
13	13.595	13.554	13.658	BB	201306	2472408	81.80%	4.553%
14	14.696	14.648	14.761	BB	189927	2447601	80.98%	4.507%
15	15.714	15.638	15.774	BB	182011	2396918	79.30%	4.414%
16	16.662	16.598	16.721	BB	171008	2352553	77.83%	4.332%
17	17.548	17.478	17.608	BB	168872	2368324	78.35%	4.361%
18	18.379	18.311	18.431	BB	154550	2282342	75.51%	4.203%
19	19.160	19.121	19.211	BB	143746	2121381	70.18%	3.907%
20	19.898	19.851	19.944	BB	125666	1897153	62.76%	3.494%
21	20.609	20.551	20.658	BB	106434	1768616	58.51%	3.257%
22	21.462	21.391	21.541	BB	75880	1709466	56.56%	3.148%
			Sum of corrected areas:			54302432		

Aliphatic EPH 021125.M Tue Feb 11 02:40:39 2025

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

Inital Calibration Report for SequenceID : FD021125AR

AreaCount

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	30133782.000	15194817.000	6263156.000	3318077.000	1700032.000	
Aromatic C12-C16	44977690.000	22823722.000	9507721.000	5041964.000	2641021.000	
Aromatic C16-C21	58435647.000	29734390.000	12145436.000	6295751.000	3256475.000	
Aromatic C21-C36	121981098.000	62220992.000	25499877.000	13225172.000	6892110.000	
Aromatic EPH	255528217.000	129973921.000	53416190.000	27880964.000	14489638.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	159020.606	5.389				
Aromatic C12-C16	160935.8659994	6.836				
Aromatic C16-C21	153359.3085	4.411				
Aromatic C21-C36	143114.7526664	4.923				
Aromatic EPH	150128.8232216	5.194				

Concentration

Parameter Range	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.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	FD049072.D	FD049073.D	FD049074.D	FD049075.D	FD049076.D	
Aromatic C10-C12	150668.910000	151948.170000	156578.900000	165903.850000	170003.200000	
Aromatic C12-C16	149925.633333	152158.146666	158462.016666	168065.466666	176068.066666	
Aromatic C16-C21	146089.117500	148671.950000	151817.950000	157393.775000	162823.750000	
Aromatic C21-C36	135534.553333	138268.871111	141665.983333	146946.355555	153158.000000	
Aromatic EPH	141960.120555	144415.467777	148378.305555	154894.244444	160995.977777	

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

Lab Sample ID:	100 PPM AROMATIC HC	Acq On:	10 Feb 2025 13:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049072.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	30133782.000	200.000	ug/ml
Aromatic C12-C16	5.794	8.396	44977690.000	300.000	ug/ml
Aromatic C16-C21	8.397	12.658	58435647.000	400.000	ug/ml
Aromatic C21-C36	12.659	18.067	121981098.000	900.000	ug/ml
Aromatic EPH	4.075	18.067	255528217.000	1800.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 10 15:30:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
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...	7.356	13521753	97.612 ug/ml
Spiked Amount	50.000		Recovery =	195.22%
6) S	2-Flurobiphenyl (SURR)	8.206	9031094	100.727 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	201.45%#
11) S	ortho-Terphenyl (SURR)	11.242	14903579	96.771 ug/ml
Spiked Amount	50.000		Recovery =	193.54%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.179	14869075	97.560 ug/ml
2) T	Naphthalene (C11.7)	5.697	15264707	98.585 ug/ml
3) T	2-Methylnaphthalene (...	6.744	14901306	97.974 ug/ml
5) T	Acenaphthylene (C15.06)	8.010	15174302	97.403 ug/ml
7) T	Acenaphthene (C15.5)	8.306	14902082	96.330 ug/ml
8) T	Flouorene (C16.55)	9.085	14990417	97.888 ug/ml
9) T	Phenanthrene (C19.36)	10.472	14561159	98.628 ug/ml
10) T	Anthracene (C19.43)	10.548	14369869	97.698 ug/ml
12) T	Fluoranthene (C21.85)	12.278	14577451	97.401 ug/ml
13) T	Pyrene (C20.8)	12.571	14514202	98.100 ug/ml
14) T	Benzo[a]anthracene (C...	14.441	13838427	101.145 ug/ml
15) T	Chrysene (C27.41)	14.487	14067276	95.042 ug/ml
16) T	benzo[b]fluoranthene ...	15.992	13742882	98.944 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.030	13818927	96.450 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.370	13061093	98.611 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.738	12478937	107.613 ug/ml
20) T	Dibenz[a,h]anthracene...	17.776	13100134	91.486 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.995	13295971	96.863 ug/ml

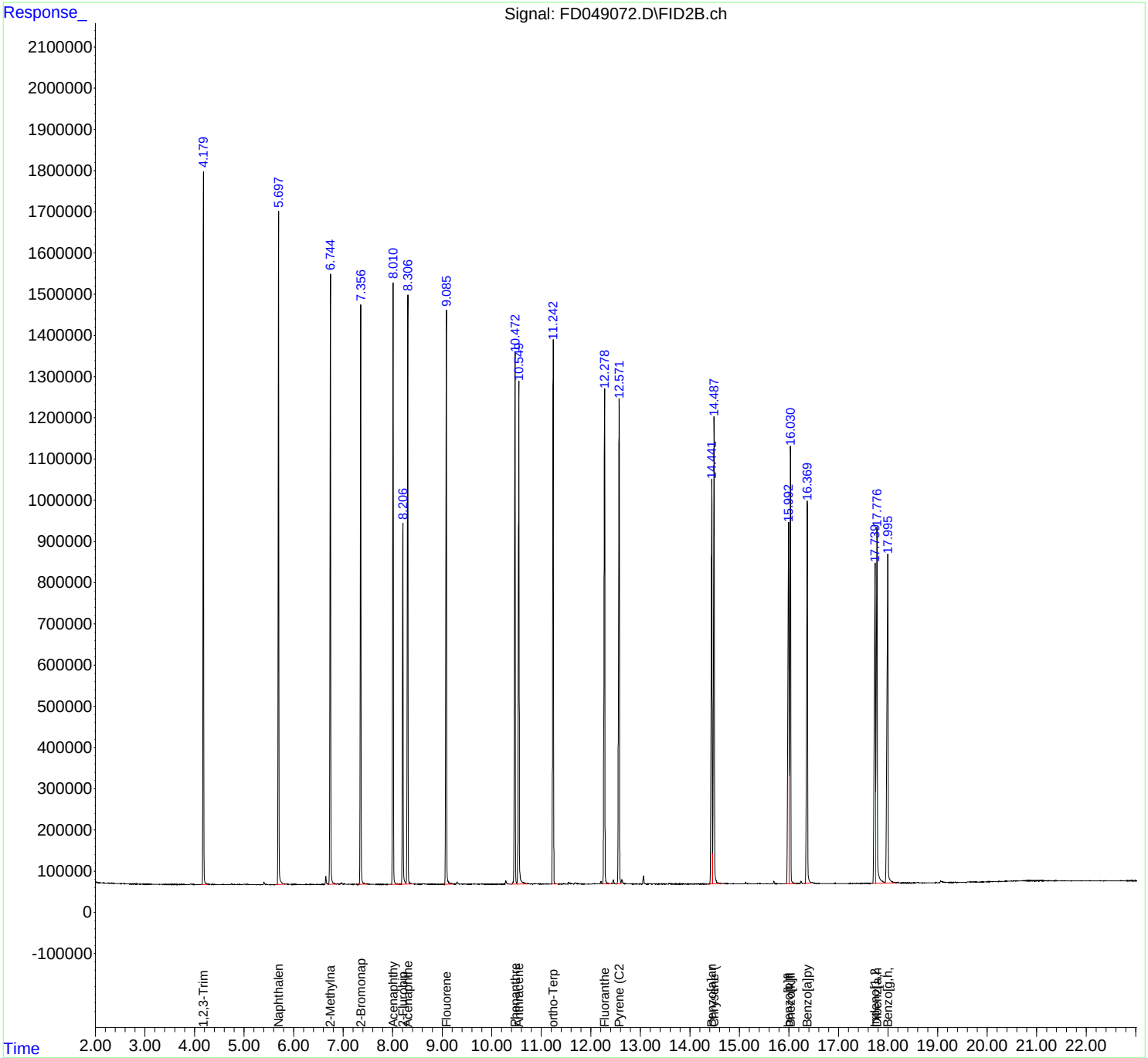
(f)=RT Delta > 1/2 Window (m)=manual int.

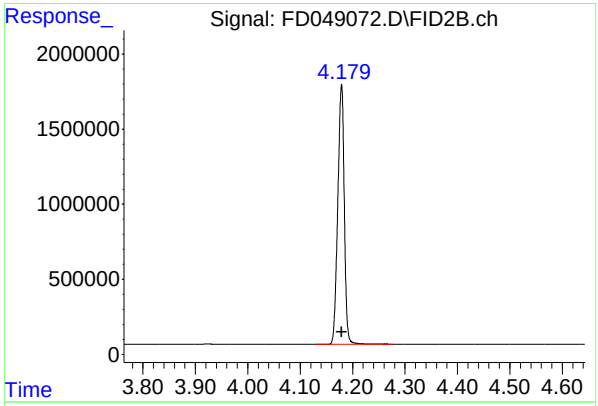
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Feb 10 15:30:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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

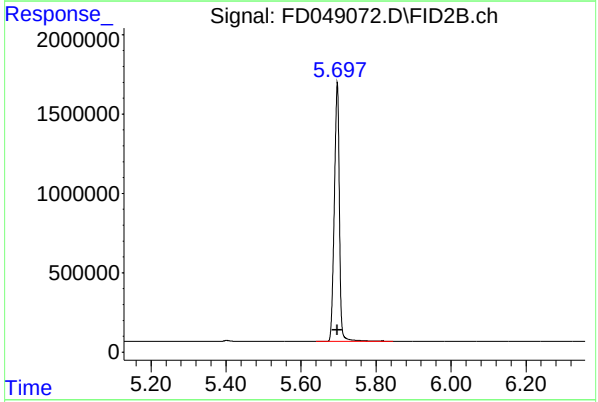




#1 1,2,3-Trimethylbenzene (C10.1)

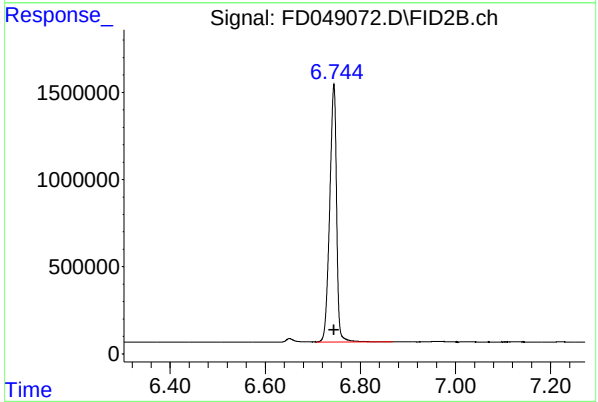
R.T.: 4.179 min
Delta R.T.: 0.000 min
Response: 14869075
Conc: 97.56 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



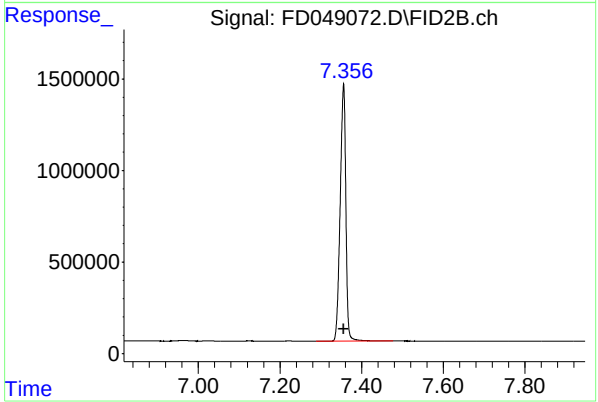
#2 Naphthalene (C11.7)

R.T.: 5.697 min
Delta R.T.: 0.000 min
Response: 15264707
Conc: 98.58 ug/ml



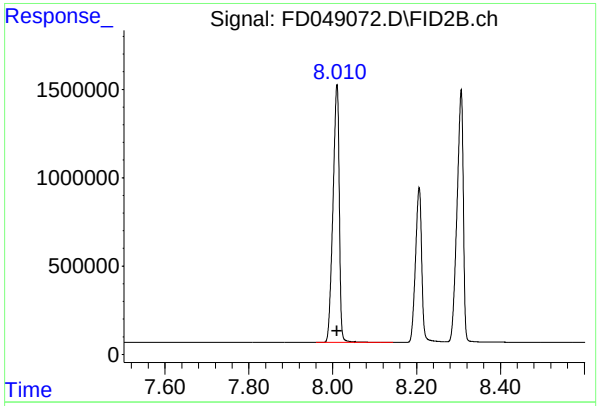
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.744 min
Delta R.T.: 0.000 min
Response: 14901306
Conc: 97.97 ug/ml



#4 2-Bromonaphthalene (SURR)

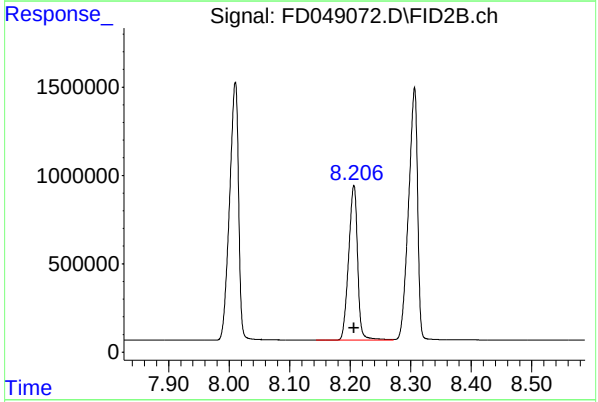
R.T.: 7.356 min
Delta R.T.: 0.000 min
Response: 13521753
Conc: 97.61 ug/ml



#5 Acenaphthylene (C15.06)

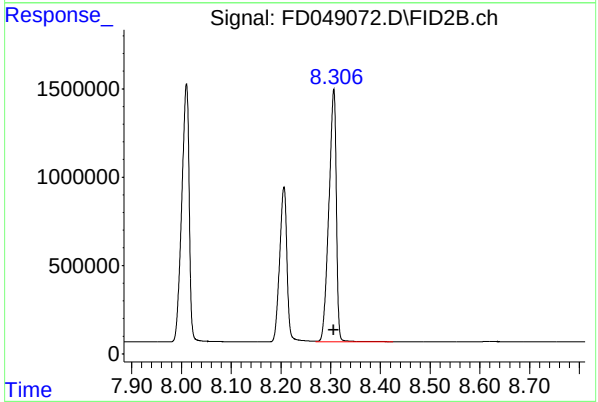
R.T.: 8.010 min
Delta R.T.: 0.000 min
Response: 15174302
Conc: 97.40 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



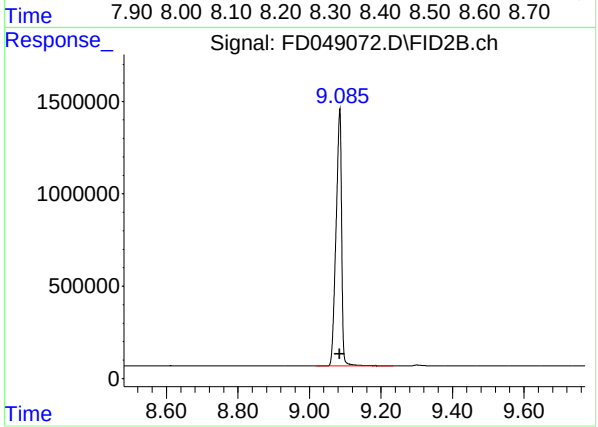
#6 2-Flurobiphenyl (SURR)

R.T.: 8.206 min
Delta R.T.: 0.000 min
Response: 9031094
Conc: 100.73 ug/ml



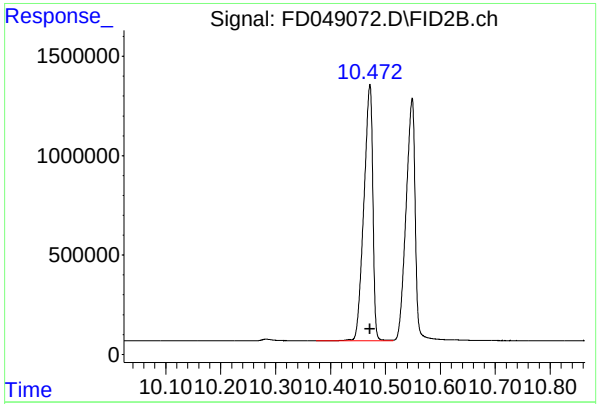
#7 Acenaphthene (C15.5)

R.T.: 8.306 min
Delta R.T.: 0.000 min
Response: 14902082
Conc: 96.33 ug/ml



#8 Flouorene (C16.55)

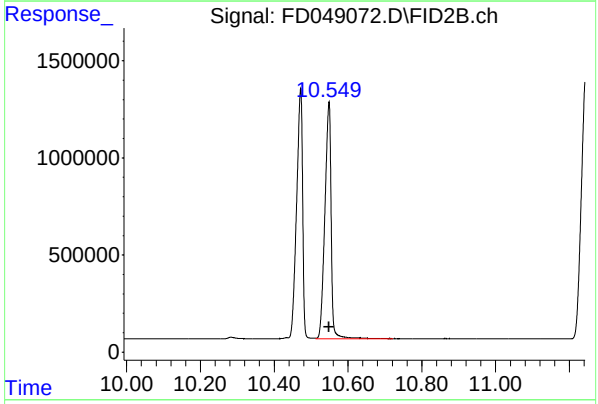
R.T.: 9.085 min
Delta R.T.: 0.000 min
Response: 14990417
Conc: 97.89 ug/ml



#9 Phenanthrene (C19.36)

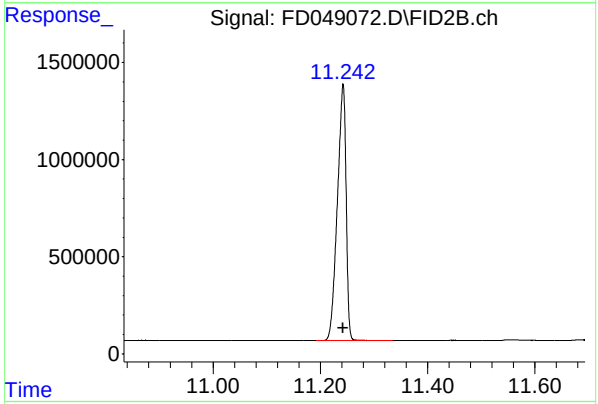
R.T.: 10.472 min
Delta R.T.: 0.000 min
Response: 14561159
Conc: 98.63 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



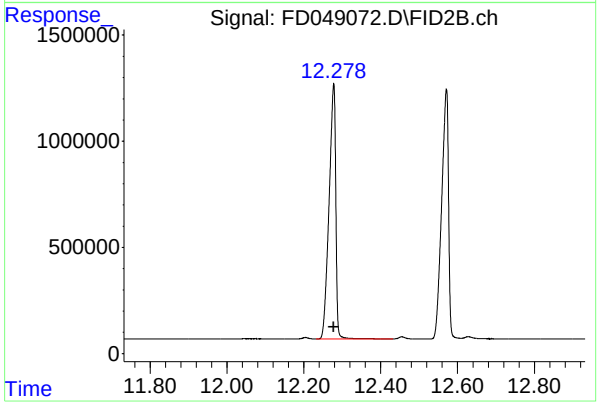
#10 Anthracene (C19.43)

R.T.: 10.548 min
Delta R.T.: 0.000 min
Response: 14369869
Conc: 97.70 ug/ml



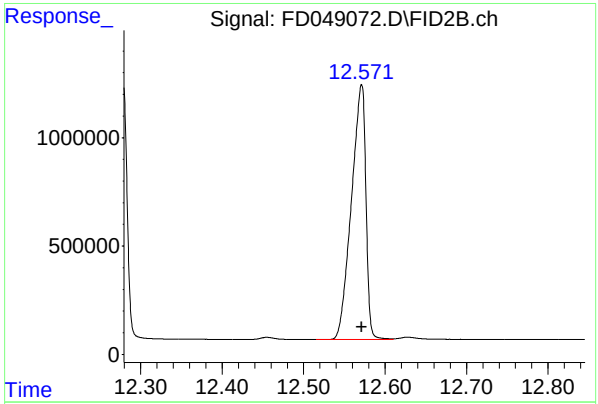
#11 ortho-Terphenyl (SURR)

R.T.: 11.242 min
Delta R.T.: 0.000 min
Response: 14903579
Conc: 96.77 ug/ml



#12 Fluoranthene (C21.85)

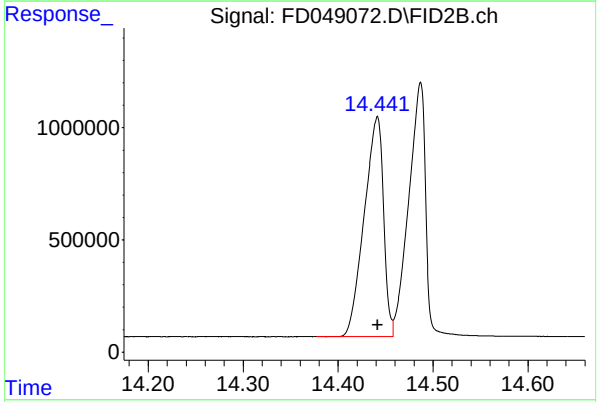
R.T.: 12.278 min
Delta R.T.: 0.000 min
Response: 14577451
Conc: 97.40 ug/ml



#13 Pyrene (C20.8)

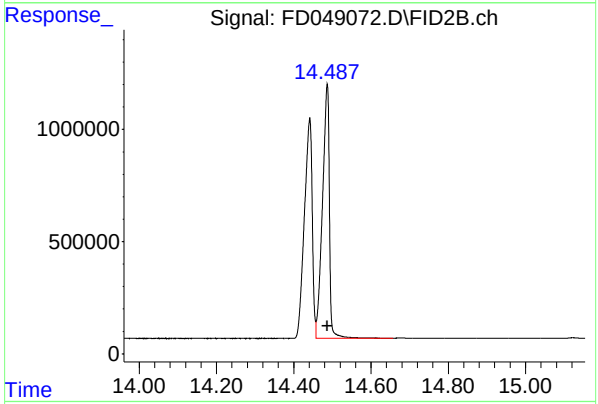
R.T.: 12.571 min
Delta R.T.: 0.000 min
Response: 14514202
Conc: 98.10 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



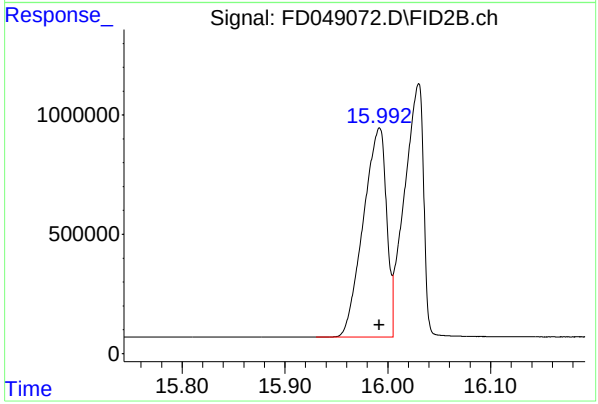
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.441 min
Delta R.T.: 0.000 min
Response: 13838427
Conc: 101.14 ug/ml



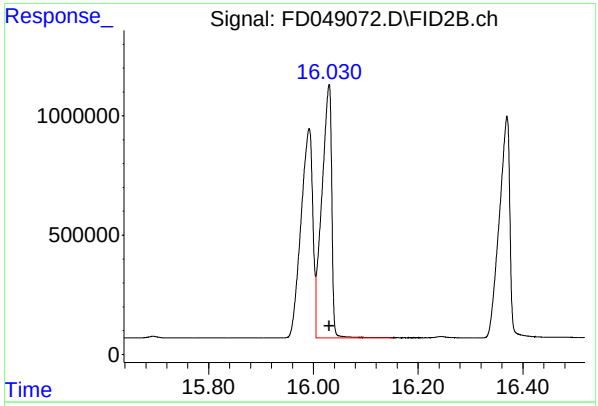
#15 Chrysene (C27.41)

R.T.: 14.487 min
Delta R.T.: 0.000 min
Response: 14067276
Conc: 95.04 ug/ml



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

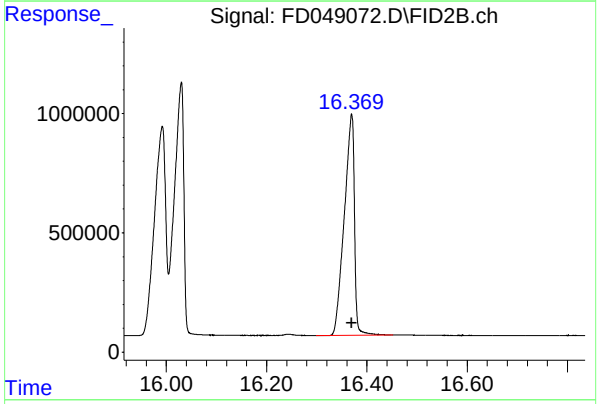
R.T.: 15.992 min
Delta R.T.: 0.000 min
Response: 13742882
Conc: 98.94 ug/ml



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

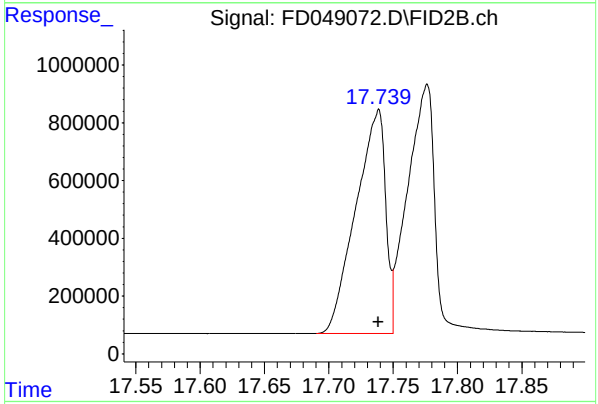
R.T.: 16.030 min
Delta R.T.: 0.000 min
Response: 13818927
Conc: 96.45 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



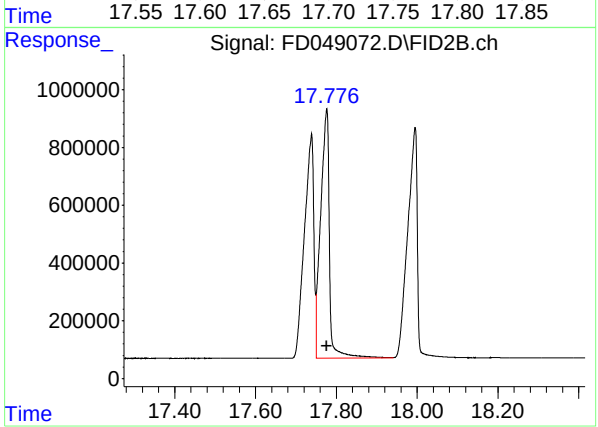
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.370 min
Delta R.T.: 0.000 min
Response: 13061093
Conc: 98.61 ug/ml



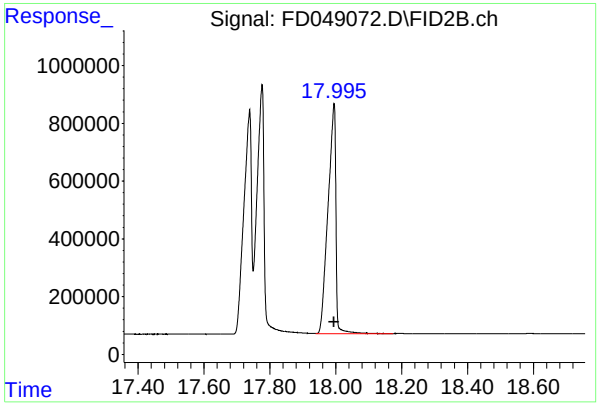
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.738 min
Delta R.T.: 0.000 min
Response: 12478937
Conc: 107.61 ug/ml



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

R.T.: 17.776 min
Delta R.T.: 0.000 min
Response: 13100134
Conc: 91.49 ug/ml



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

R.T.: 17.995 min
Delta R.T.: 0.000 mi
Response: 13295971
Conc: 96.86 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049072.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:22
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.179	4.130	4.277	BV	1725911	14869075	97.41%	5.075%
2	5.697	5.640	5.845	BV	1634675	15264707	100.00%	5.210%
3	6.744	6.707	6.869	VV	1483646	14901306	97.62%	5.086%
4	7.356	7.289	7.477	BB	1400044	13521753	88.58%	4.615%
5	8.010	7.960	8.144	BB	1461744	15174302	99.41%	5.179%
6	8.206	8.144	8.271	BV	877931	9031094	59.16%	3.082%
7	8.306	8.271	8.425	VB	1434092	14902082	97.62%	5.086%
8	9.085	9.019	9.234	BB	1398721	14990417	98.20%	5.116%
9	10.472	10.374	10.514	BV	1291889	14561159	95.39%	4.970%
10	10.548	10.514	10.722	VB	1219536	14369869	94.14%	4.905%
11	11.242	11.192	11.335	BB	1319058	14903579	97.63%	5.087%
12	12.278	12.232	12.432	VV	1208983	14577451	95.50%	4.976%
13	12.571	12.515	12.610	BV	1180482	14514202	95.08%	4.954%
14	14.441	14.377	14.458	BV	983584	13838427	90.66%	4.723%
15	14.487	14.458	14.657	VV	1134752	14067276	92.16%	4.801%
16	15.992	15.930	16.005	BV	877521	13742882	90.03%	4.691%
17	16.030	16.005	16.152	VB	1064780	13818927	90.53%	4.717%
18	16.370	16.299	16.452	BV	929001	13061093	85.56%	4.458%
19	17.738	17.690	17.750	BV	775881	12478937	81.75%	4.259%
20	17.776	17.750	17.940	VV	865574	13100134	85.82%	4.471%
21	17.995	17.940	18.174	VV	799393	13295971	87.10%	4.538%

Sum of corrected areas: 292984644

Aromatic EPH 021125.M Tue Feb 11 00:32:56 2025

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:	10 Feb 2025 13:58
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049073.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	15194817.000	100.000	ug/ml
Aromatic C12-C16	5.794	8.396	22823722.000	150.000	ug/ml
Aromatic C16-C21	8.397	12.658	29734390.000	200.000	ug/ml
Aromatic C21-C36	12.659	18.067	62220992.000	450.000	ug/ml
Aromatic EPH	4.075	18.067	129973921.000	900.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 10 15:32:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
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...	7.352	6832671	49.548 ug/ml
	Spiked Amount 50.000		Recovery = 99.10%	
6)	S 2-Flurobiphenyl (SURR)	8.201	4519240	50.269 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 100.54%	
11)	S ortho-Terphenyl (SURR)	11.236	7609409	49.605 ug/ml
	Spiked Amount 50.000		Recovery = 99.21%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	7483064	49.395 ug/ml
2)	T Naphthalene (C11.7)	5.693	7711753	49.870 ug/ml
3)	T 2-Methylnaphthalene (...	6.740	7516774	49.613 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	7704821	49.636 ug/ml
7)	T Acenaphthene (C15.5)	8.300	7602127	49.425 ug/ml
8)	T Flouorene (C16.55)	9.078	7593219	49.722 ug/ml
9)	T Phenanthrene (C19.36)	10.465	7379729	49.990 ug/ml
10)	T Anthracene (C19.43)	10.541	7344304	49.955 ug/ml
12)	T Fluoranthene (C21.85)	12.270	7455312	49.876 ug/ml
13)	T Pyrene (C20.8)	12.562	7417138	50.088 ug/ml
14)	T Benzo[a]anthracene (C...	14.434	6964194	50.597 ug/ml
15)	T Chrysene (C27.41)	14.475	7274381	49.429 ug/ml
16)	T benzo[b]fluoranthene ...	15.983	6978240	50.160 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.015	7115728	49.346 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.357	6633881	50.057 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.724	5940391	50.812 ug/ml
20)	T Dibenz[a,h]anthracene...	17.760	7026106	49.374 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.977	6832759	49.851 ug/ml

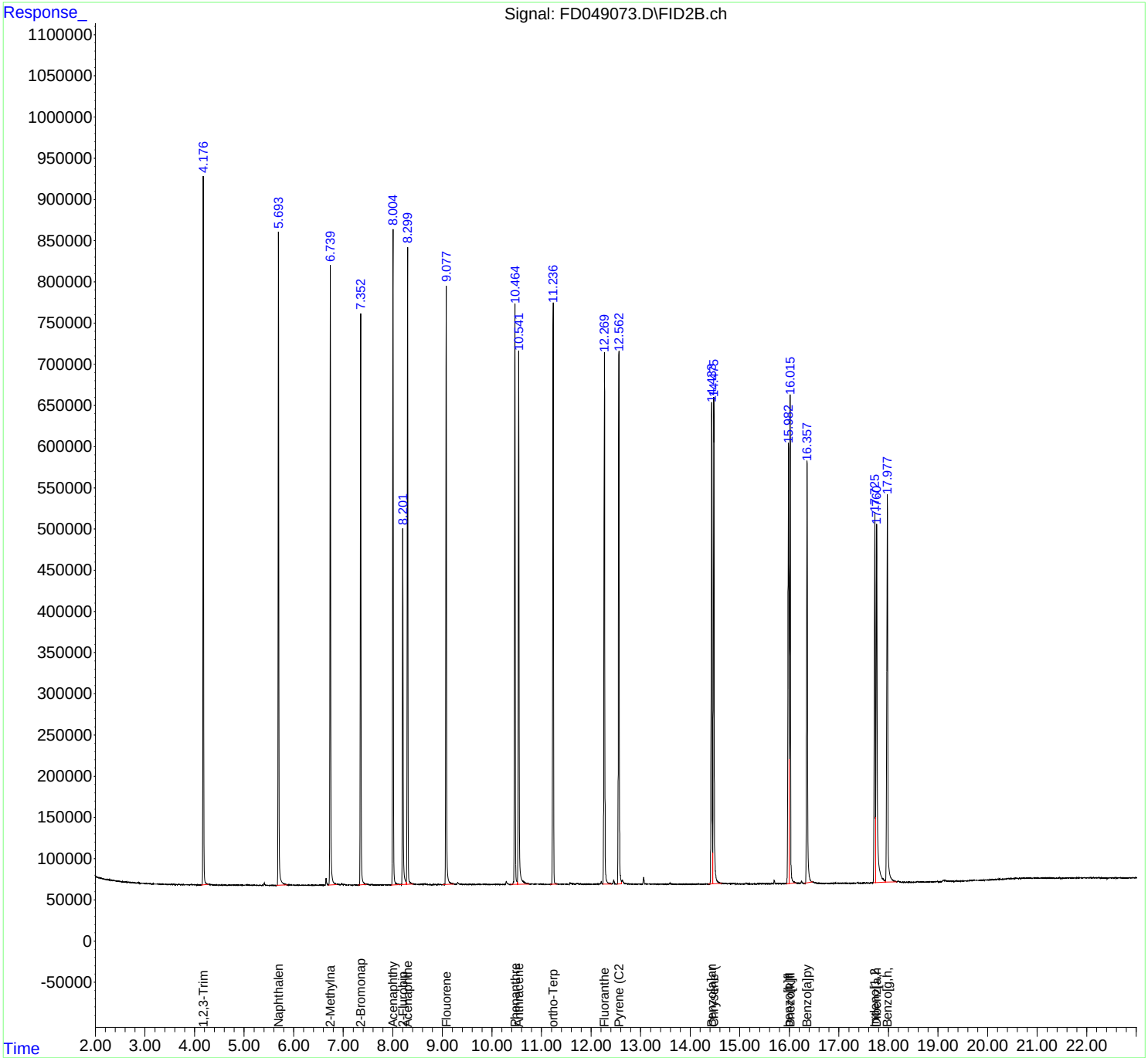
(f)=RT Delta > 1/2 Window (m)=manual int.

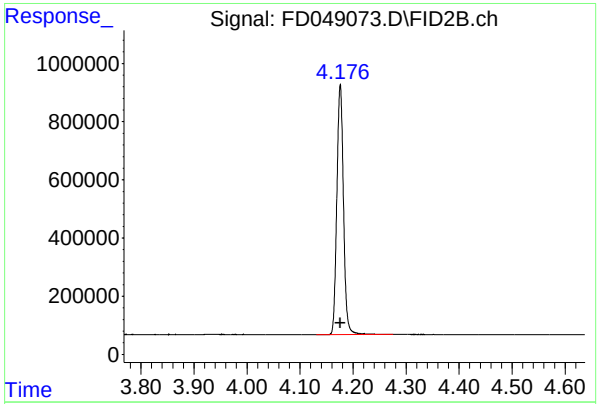
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Feb 10 15:32:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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

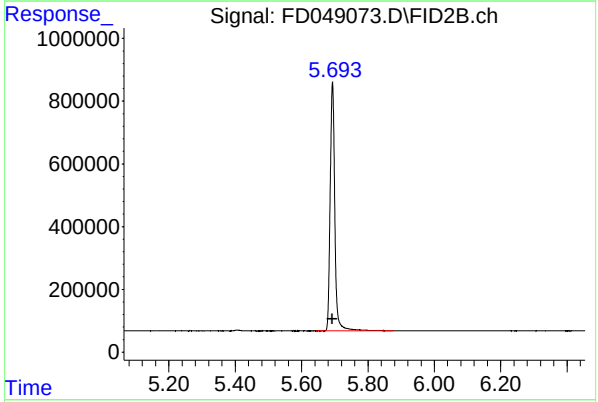




#1 1,2,3-Trimethylbenzene (C10.1)

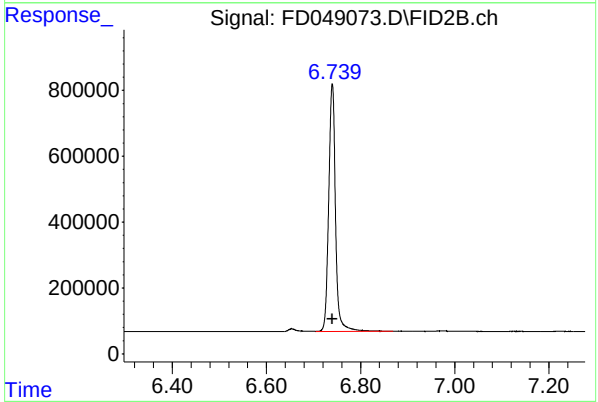
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 7483064
Conc: 49.40 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



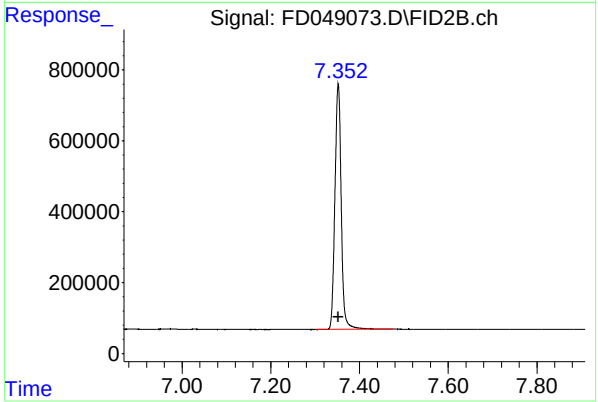
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 7711753
Conc: 49.87 ug/ml



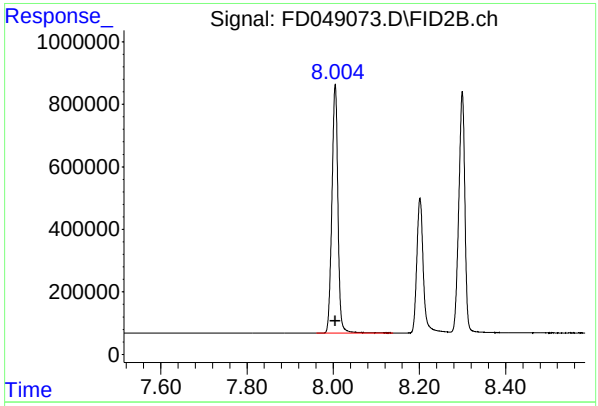
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 7516774
Conc: 49.61 ug/ml



#4 2-Bromonaphthalene (SURR)

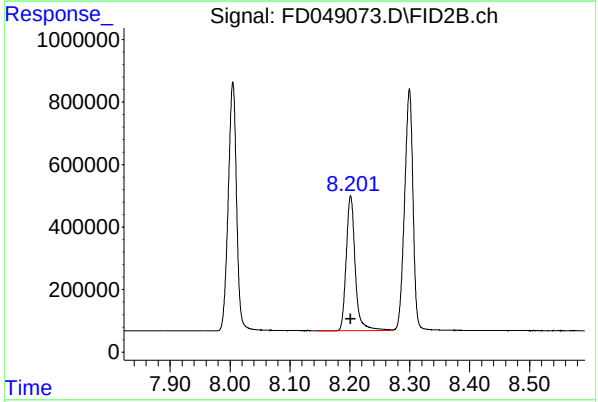
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 6832671
Conc: 49.55 ug/ml



#5 Acenaphthylene (C15.06)

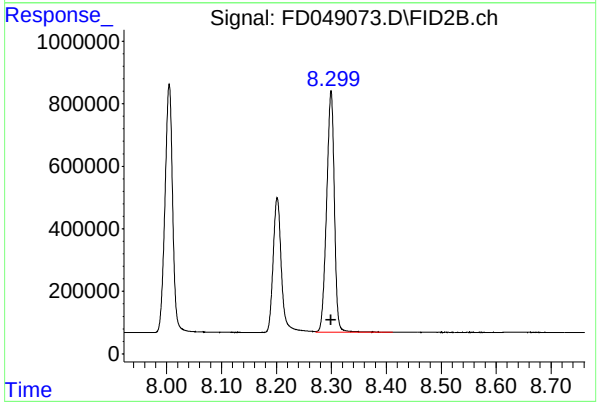
R.T.: 8.005 min
Delta R.T.: 0.000 min
Response: 7704821
Conc: 49.64 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



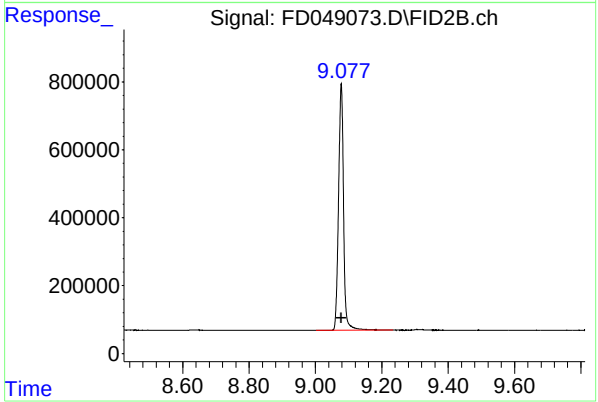
#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 4519240
Conc: 50.27 ug/ml



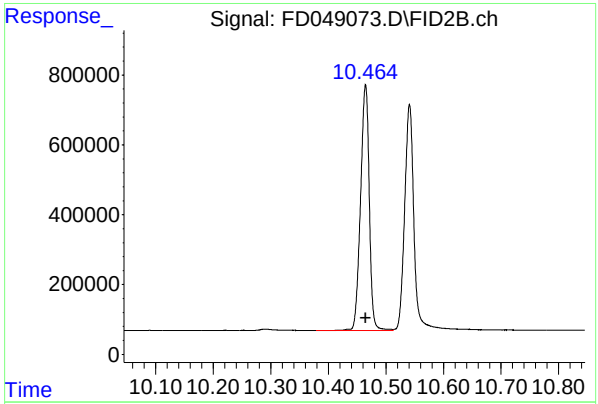
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.000 min
Response: 7602127
Conc: 49.42 ug/ml



#8 Flouorene (C16.55)

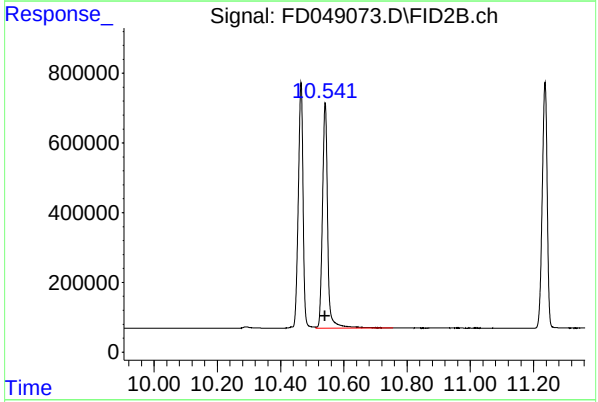
R.T.: 9.078 min
Delta R.T.: 0.000 min
Response: 7593219
Conc: 49.72 ug/ml



#9 Phenanthrene (C19.36)

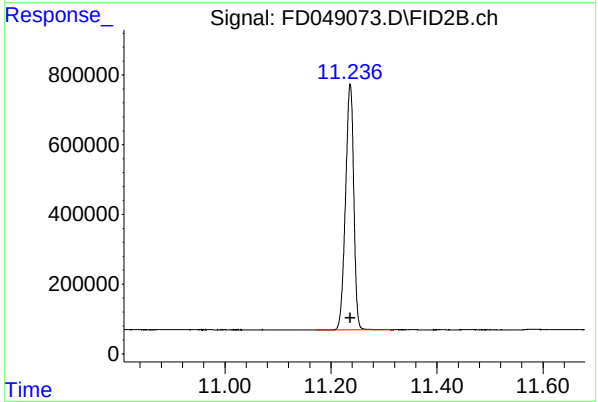
R.T.: 10.465 min
Delta R.T.: 0.000 min
Response: 7379729
Conc: 49.99 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



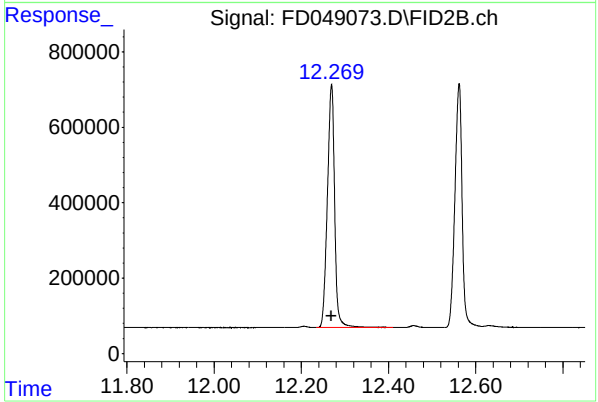
#10 Anthracene (C19.43)

R.T.: 10.541 min
Delta R.T.: 0.000 min
Response: 7344304
Conc: 49.96 ug/ml



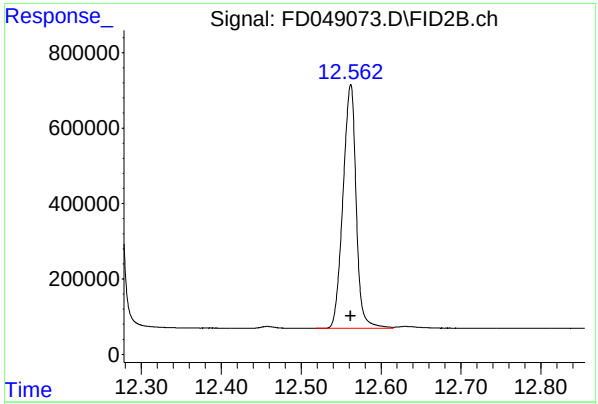
#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.000 min
Response: 7609409
Conc: 49.60 ug/ml



#12 Fluoranthene (C21.85)

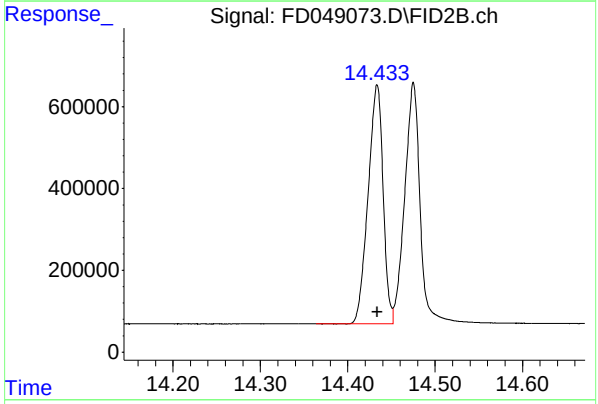
R.T.: 12.270 min
Delta R.T.: 0.000 min
Response: 7455312
Conc: 49.88 ug/ml



#13 Pyrene (C20.8)

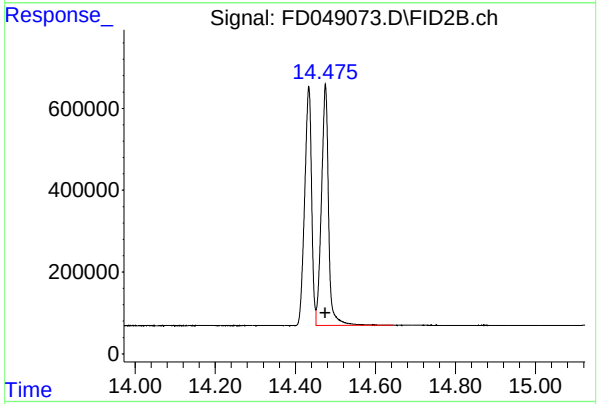
R.T.: 12.562 min
Delta R.T.: 0.000 min
Response: 7417138
Conc: 50.09 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



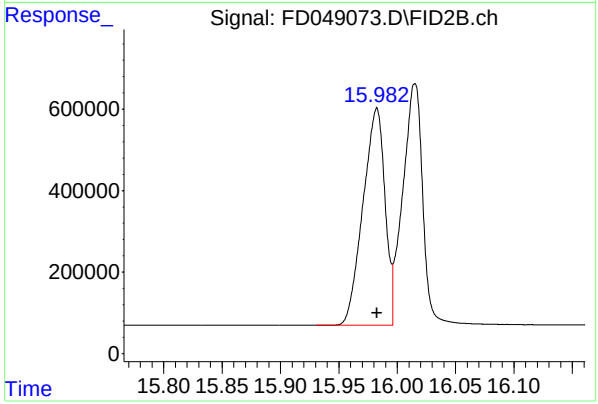
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.434 min
Delta R.T.: 0.000 min
Response: 6964194
Conc: 50.60 ug/ml



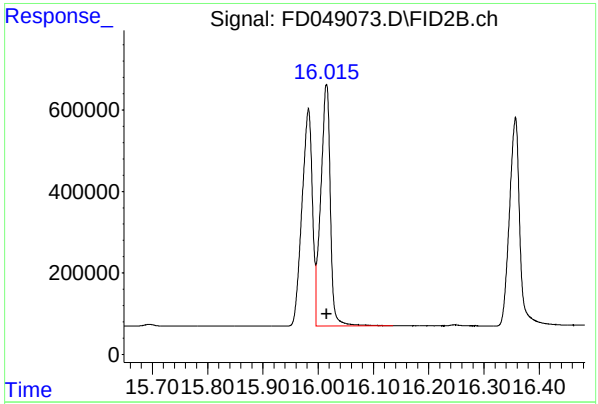
#15 Chrysene (C27.41)

R.T.: 14.475 min
Delta R.T.: 0.000 min
Response: 7274381
Conc: 49.43 ug/ml



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

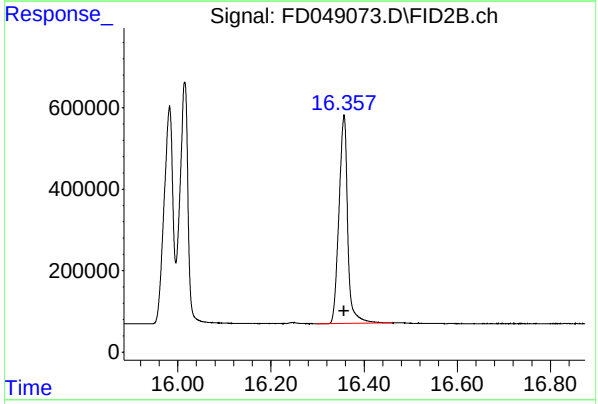
R.T.: 15.983 min
Delta R.T.: 0.000 min
Response: 6978240
Conc: 50.16 ug/ml



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

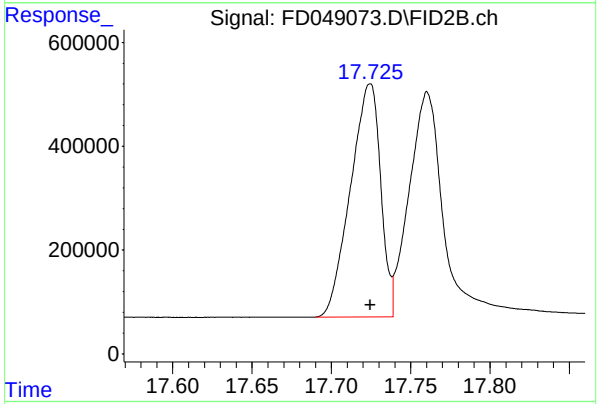
R.T.: 16.015 min
Delta R.T.: 0.000 min
Response: 7115728
Conc: 49.35 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



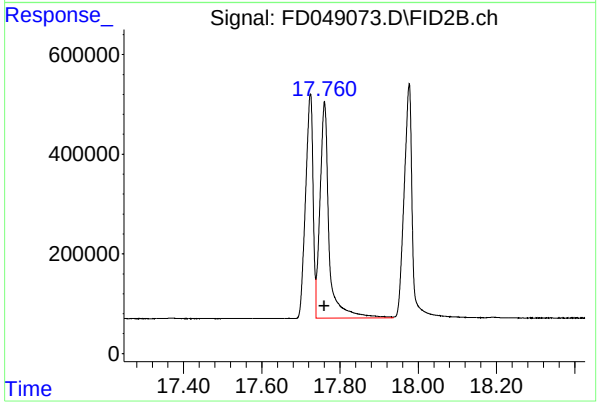
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.357 min
Delta R.T.: 0.000 min
Response: 6633881
Conc: 50.06 ug/ml



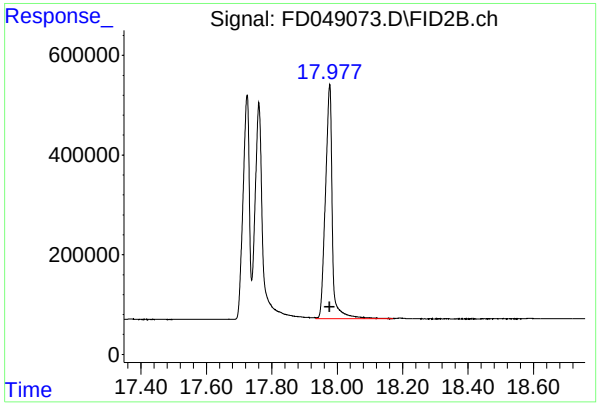
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.724 min
Delta R.T.: 0.000 min
Response: 5940391
Conc: 50.81 ug/ml



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

R.T.: 17.760 min
Delta R.T.: 0.000 min
Response: 7026106
Conc: 49.37 ug/ml



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

R.T.: 17.977 min
Delta R.T.: 0.000 mi
Response: 6832759
Conc: 49.85 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049073.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 13:58
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.176	4.130	4.275	BB	856930	7483064	97.03%	5.024%
2	5.693	5.644	5.875	BB	793670	7711753	100.00%	5.178%
3	6.740	6.705	6.869	VV	752280	7516774	97.47%	5.047%
4	7.352	7.302	7.475	BB	692518	6832671	88.60%	4.588%
5	8.005	7.960	8.139	BB	796415	7704821	99.91%	5.173%
6	8.201	8.144	8.272	BV	430213	4519240	58.60%	3.034%
7	8.300	8.272	8.412	VB	773593	7602127	98.58%	5.104%
8	9.078	9.002	9.234	BB	724789	7593219	98.46%	5.098%
9	10.465	10.379	10.512	BV	704297	7379729	95.69%	4.955%
10	10.541	10.512	10.755	VB	647346	7344304	95.24%	4.931%
11	11.236	11.172	11.317	BB	704623	7609409	98.67%	5.109%
12	12.270	12.234	12.410	PV	646673	7455312	96.67%	5.006%
13	12.562	12.519	12.615	BV	647073	7417138	96.18%	4.980%
14	14.434	14.364	14.452	BV	584665	6964194	90.31%	4.676%
15	14.475	14.452	14.644	VB	589498	7274381	94.33%	4.884%
16	15.983	15.930	15.996	BV	532011	6978240	90.49%	4.685%
17	16.015	15.996	16.135	VB	592968	7115728	92.27%	4.778%
18	16.357	16.297	16.462	BV	511495	6633881	86.02%	4.454%
19	17.724	17.690	17.739	BV	449892	5940391	77.03%	3.989%
20	17.760	17.739	17.935	VV	434204	7026106	91.11%	4.718%
21	17.977	17.935	18.170	VV	469618	6832759	88.60%	4.588%

Sum of corrected areas: 148935240

Aromatic EPH 021125.M Tue Feb 11 00:33:22 2025

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:	10 Feb 2025 14:35
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049074.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	6263156.000	40.000	ug/ml
Aromatic C12-C16	5.794	8.396	9507721.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.658	12145436.000	80.000	ug/ml
Aromatic C21-C36	12.659	18.067	25499877.000	180.000	ug/ml
Aromatic EPH	4.075	18.067	53416190.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 10 15:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
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...	7.351	2836644	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.202	1780140	20.000 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.00%	
11)	S ortho-Terphenyl (SURR)	11.233	3179603	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	3122576	20.000 ug/ml
2)	T Naphthalene (C11.7)	5.693	3140580	20.000 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	3103501	20.000 ug/ml
5)	T Acenaphthylene (C15.06)	8.003	3196723	20.000 ug/ml
7)	T Acenaphthene (C15.5)	8.296	3207497	20.000 ug/ml
8)	T Flouorene (C16.55)	9.076	3127465	20.000 ug/ml
9)	T Phenanthrene (C19.36)	10.463	2993262	20.000 ug/ml
10)	T Anthracene (C19.43)	10.540	3009407	20.000 ug/ml
12)	T Fluoranthene (C21.85)	12.267	3071055	20.000 ug/ml
13)	T Pyrene (C20.8)	12.558	3015302	20.000 ug/ml
14)	T Benzo[a]anthracene (C...	14.429	2705035	20.000 ug/ml
15)	T Chrysene (C27.41)	14.469	3106970	20.000 ug/ml
16)	T benzo[b]fluoranthene ...	15.976	2807258	20.000 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.006	3041925	20.000 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.354	2685830	20.000 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.718	2142662	20.000 ug/ml
20)	T Dibenz[a,h]anthracene...	17.759	3107681	20.000 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.966	2831461	20.000 ug/ml

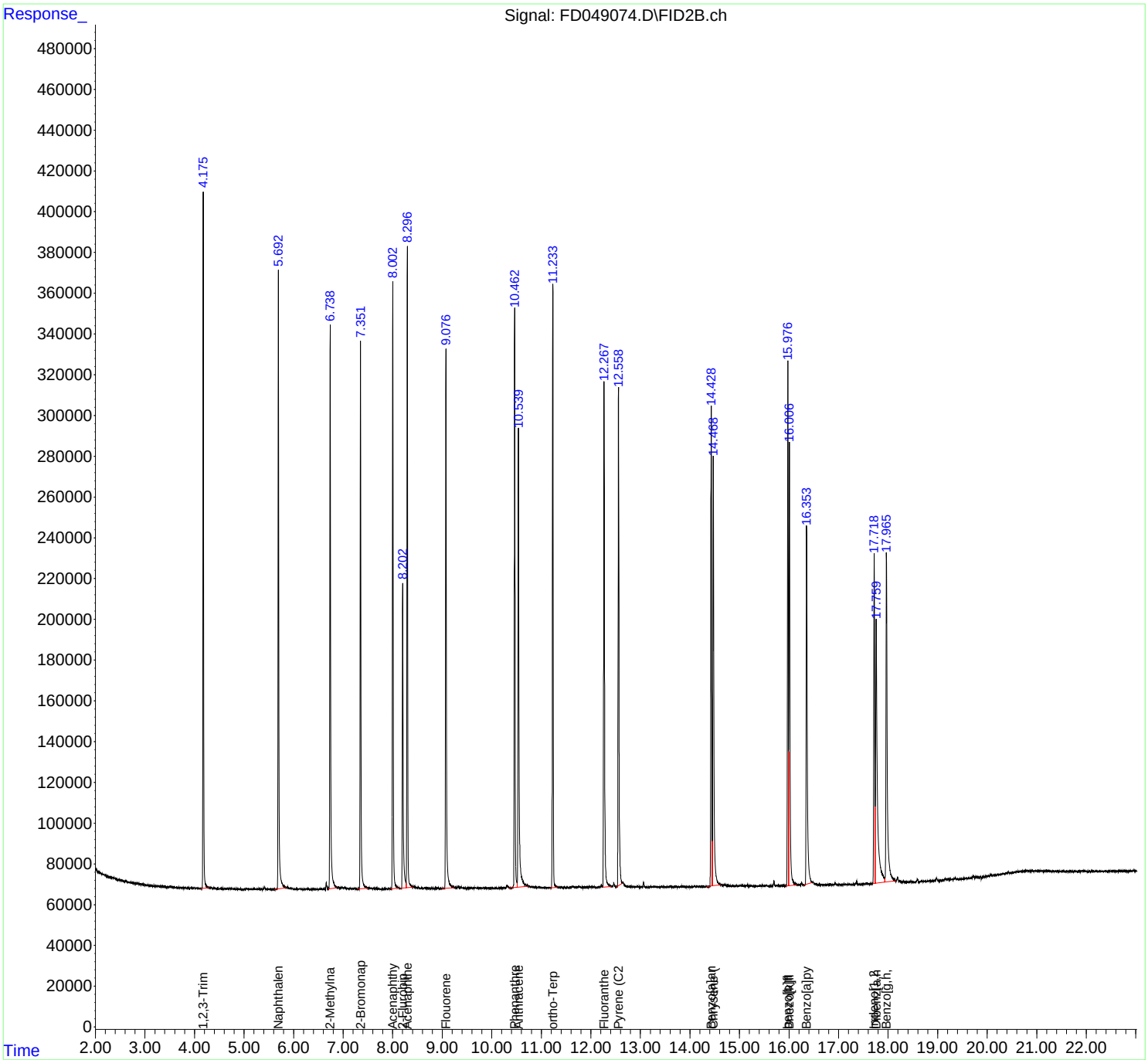
(f)=RT Delta > 1/2 Window (m)=manual int.

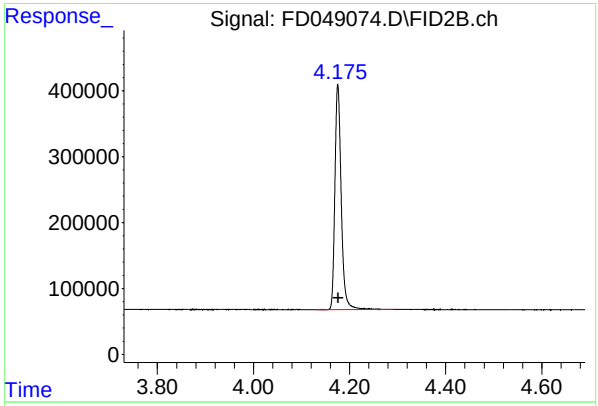
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Feb 10 15:28:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:28:06 2025
Response via : Initial Calibration
Integrator: ChemStation

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

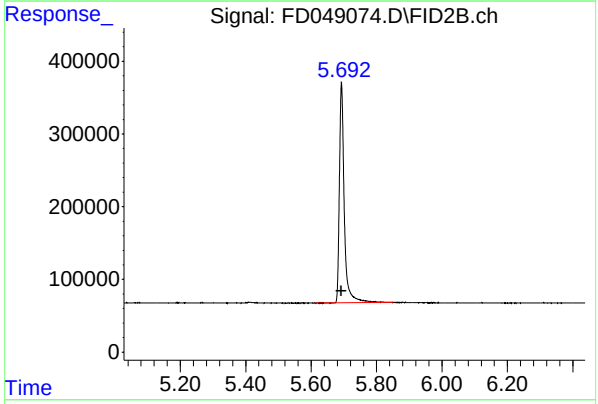




#1 1,2,3-Trimethylbenzene (C10.1)

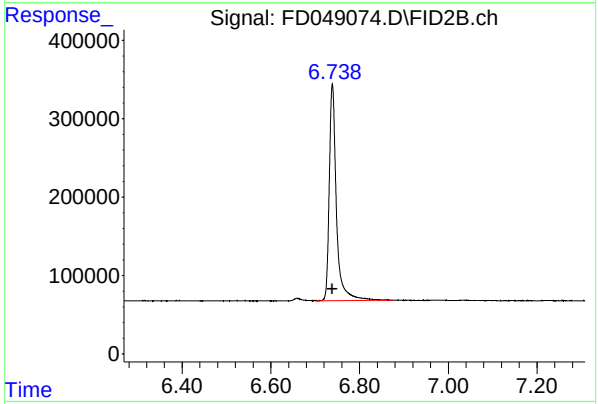
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 3122576
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



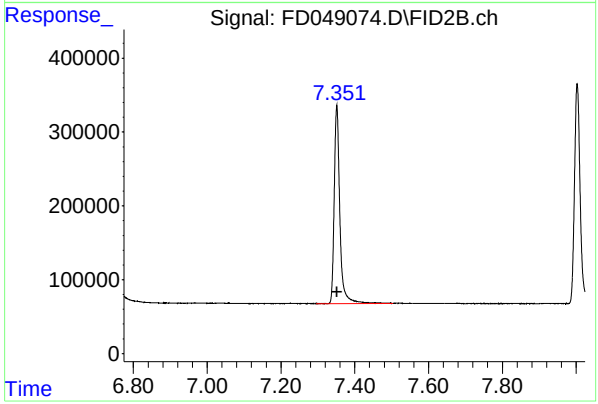
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 3140580
Conc: 20.00 ug/ml



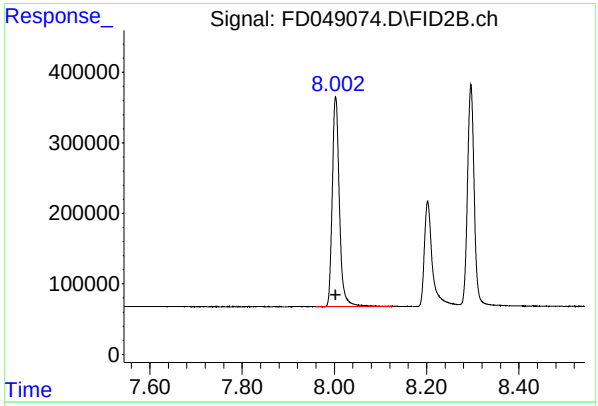
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 3103501
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

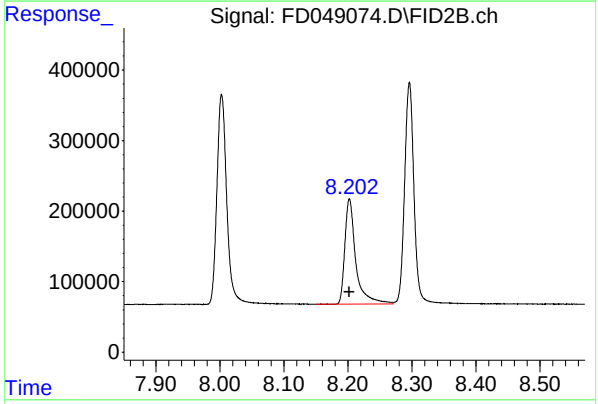
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 2836644
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

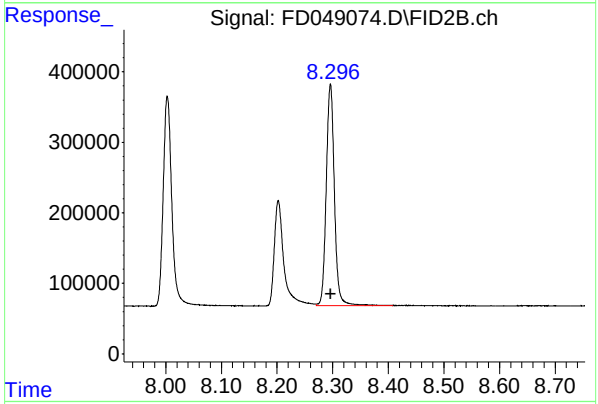
R.T.: 8.003 min
Delta R.T.: 0.000 min
Response: 3196723
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



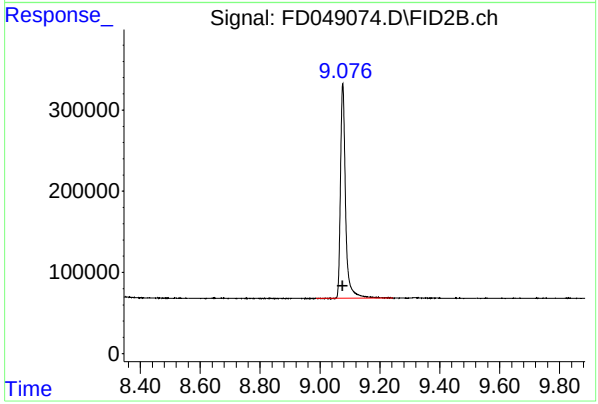
#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 1780140
Conc: 20.00 ug/ml



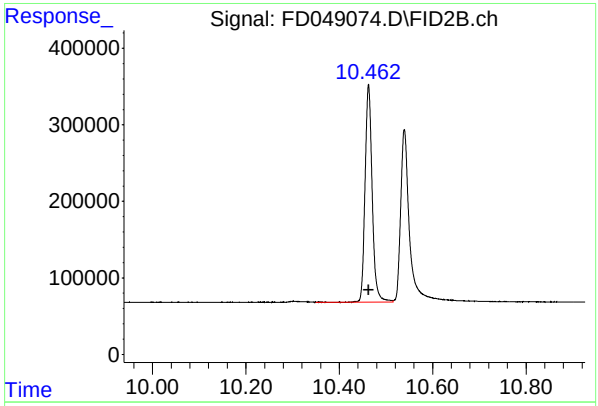
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: 0.000 min
Response: 3207497
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

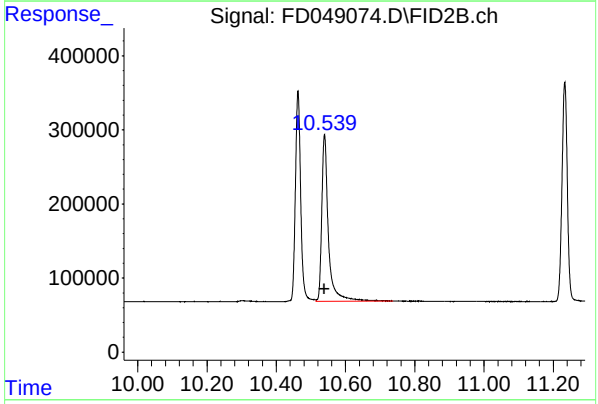
R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 3127465
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

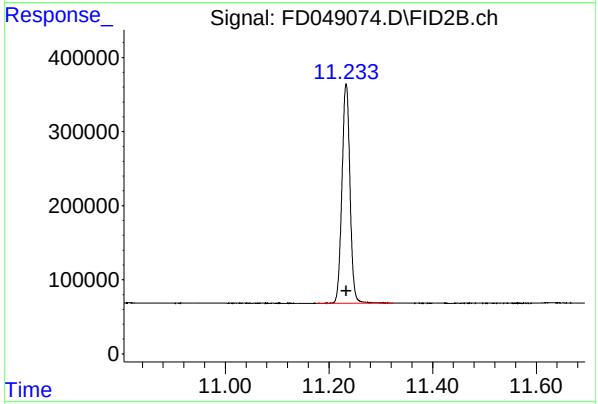
R.T.: 10.463 min
Delta R.T.: 0.000 min
Response: 2993262
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



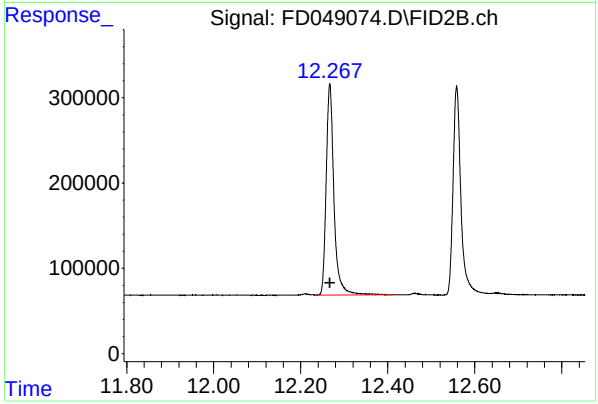
#10 Anthracene (C19.43)

R.T.: 10.540 min
Delta R.T.: 0.000 min
Response: 3009407
Conc: 20.00 ug/ml



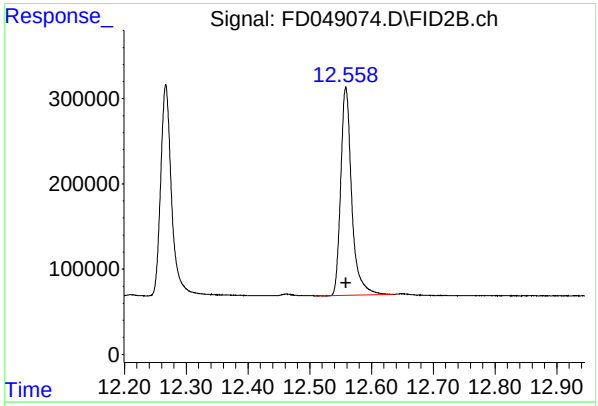
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3179603
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

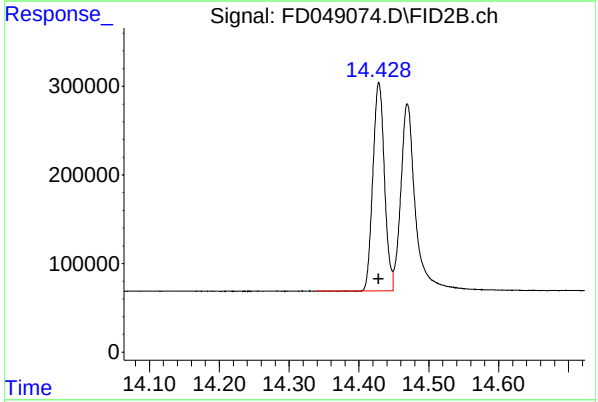
R.T.: 12.267 min
Delta R.T.: 0.000 min
Response: 3071055
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

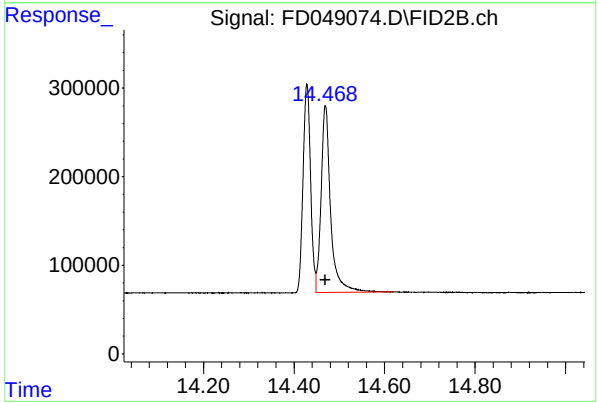
R.T.: 12.558 min
Delta R.T.: 0.000 min
Response: 3015302
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



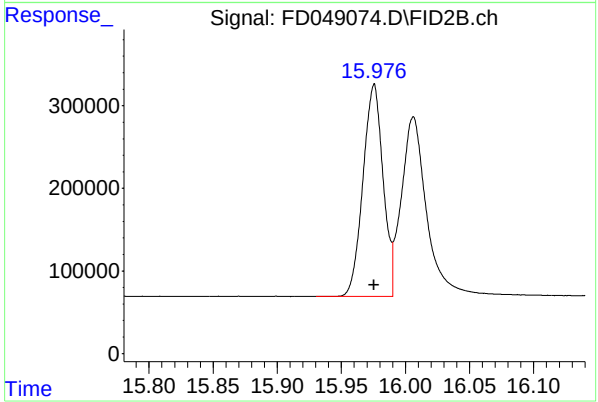
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.429 min
Delta R.T.: 0.000 min
Response: 2705035
Conc: 20.00 ug/ml



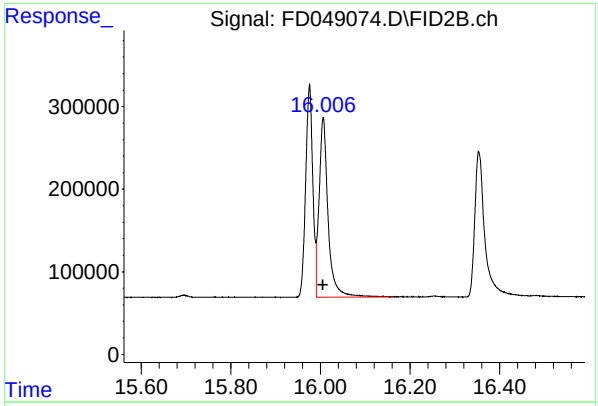
#15 Chrysene (C27.41)

R.T.: 14.469 min
Delta R.T.: 0.000 min
Response: 3106970
Conc: 20.00 ug/ml



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

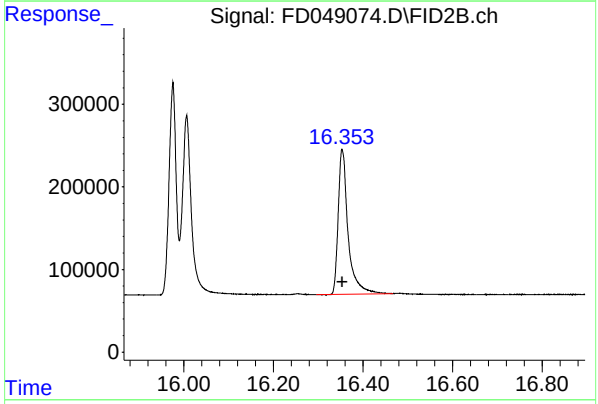
R.T.: 15.976 min
Delta R.T.: 0.000 min
Response: 2807258
Conc: 20.00 ug/ml



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

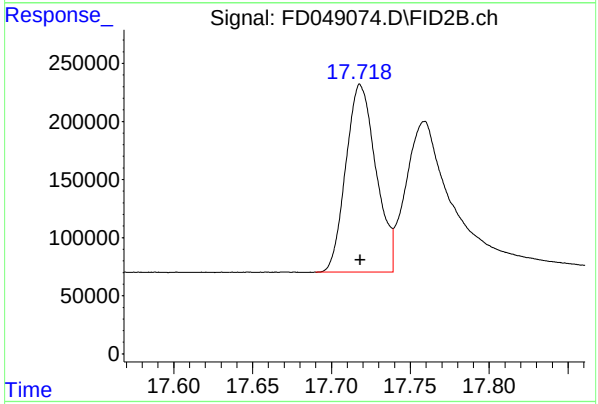
R.T.: 16.006 min
Delta R.T.: 0.000 min
Response: 3041925
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



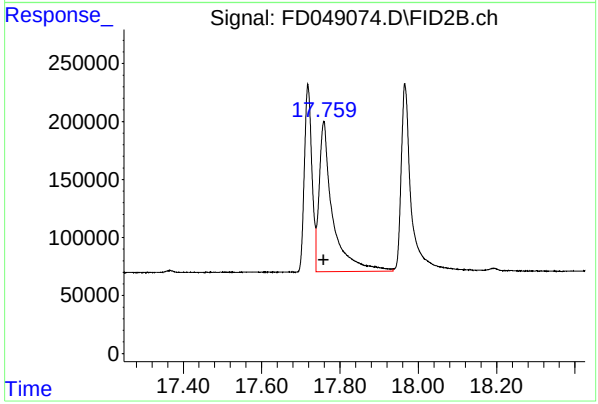
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.354 min
Delta R.T.: 0.000 min
Response: 2685830
Conc: 20.00 ug/ml



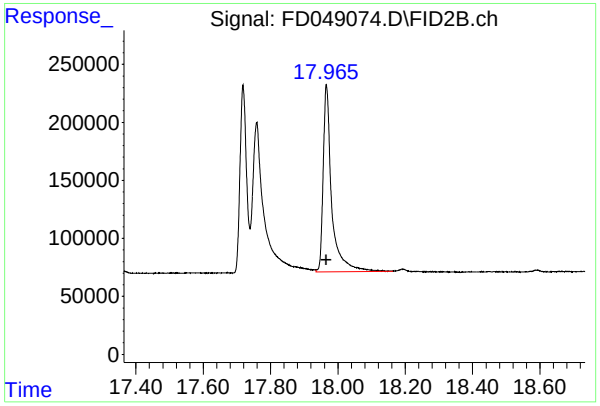
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.718 min
Delta R.T.: 0.000 min
Response: 2142662
Conc: 20.00 ug/ml



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

R.T.: 17.759 min
Delta R.T.: 0.000 min
Response: 3107681
Conc: 20.00 ug/ml



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

R.T.: 17.966 min
Delta R.T.: 0.000 mi
Response: 2831461
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\FD021125AR\
Data File : FD049074.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 14:35
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.176	4.130	4.290	BB	341507	3122576	97.35%	5.101%
2	5.693	5.615	5.850	BB	302052	3140580	97.91%	5.131%
3	6.739	6.702	6.875	PV	276834	3103501	96.76%	5.070%
4	7.351	7.295	7.504	BB	268948	2836644	88.44%	4.634%
5	8.003	7.960	8.127	BB	296889	3196723	99.66%	5.222%
6	8.202	8.150	8.270	BV	149509	1780140	55.50%	2.908%
7	8.296	8.270	8.409	VB	315086	3207497	100.00%	5.240%
8	9.076	8.987	9.244	BB	264582	3127465	97.50%	5.109%
9	10.463	10.350	10.515	BV	283529	2993262	93.32%	4.890%
10	10.540	10.515	10.737	VB	225555	3009407	93.82%	4.916%
11	11.233	11.175	11.324	BB	295969	3179603	99.13%	5.194%
12	12.267	12.235	12.412	PB	247743	3071055	95.75%	5.017%
13	12.558	12.510	12.635	PV	244074	3015302	94.01%	4.926%
14	14.429	14.339	14.449	BV	235372	2705035	84.33%	4.419%
15	14.469	14.449	14.619	VB	210710	3106970	96.87%	5.076%
16	15.976	15.930	15.990	BV	256347	2807258	87.52%	4.586%
17	16.006	15.990	16.162	VB	217937	3041925	94.84%	4.969%
18	16.354	16.295	16.467	BV	175364	2685830	83.74%	4.388%
19	17.718	17.690	17.739	BV	161338	2142662	66.80%	3.500%
20	17.759	17.739	17.935	VV	129645	3107681	96.89%	5.077%
21	17.966	17.935	18.164	VV	161614	2831461	88.28%	4.626%

Sum of corrected areas: 61212576

Aromatic EPH 021125.M Tue Feb 11 00:33:40 2025

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:	10 Feb 2025 15:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049075.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	3318077.000	20.000	ug/ml
Aromatic C12-C16	5.794	8.396	5041964.000	30.000	ug/ml
Aromatic C16-C21	8.397	12.658	6295751.000	40.000	ug/ml
Aromatic C21-C36	12.659	18.067	13225172.000	90.000	ug/ml
Aromatic EPH	4.075	18.067	27880964.000	180.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 10 15:56:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:56:39 2025
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...	7.353	1471043	10.492 ug/ml
Spiked Amount	50.000		Recovery =	20.98%
6) S	2-Flurobiphenyl (SURR)	8.207	875829	9.805 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.61%
11) S	ortho-Terphenyl (SURR)	11.234	1694149	10.763 ug/ml
Spiked Amount	50.000		Recovery =	21.53%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.177	1656548	10.685 ug/ml
2) T	Naphthalene (C11.7)	5.695	1661529	10.548 ug/ml
3) T	2-Methylnaphthalene (...	6.741	1621317	10.517 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	1694814	10.673 ug/ml
7) T	Acenaphthene (C15.5)	8.297	1725833	10.888 ug/ml
8) T	Flouorene (C16.55)	9.079	1621856	10.458 ug/ml
9) T	Phenanthrene (C19.36)	10.465	1539045	10.316 ug/ml
10) T	Anthracene (C19.43)	10.542	1567931	10.490 ug/ml
12) T	Fluoranthene (C21.85)	12.271	1592182	10.481 ug/ml
13) T	Pyrene (C20.8)	12.562	1566919	10.430 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	1271690	9.418 ug/ml
15) T	Chrysene (C27.41)	14.471	1725375	11.239 ug/ml
16) T	benzo[b]fluoranthene ...	15.977	1376748	9.922 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.009	1686985	11.222 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	1358701	10.188 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	1005197	8.910 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	1692264	11.355 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	1516030	10.775 ug/ml

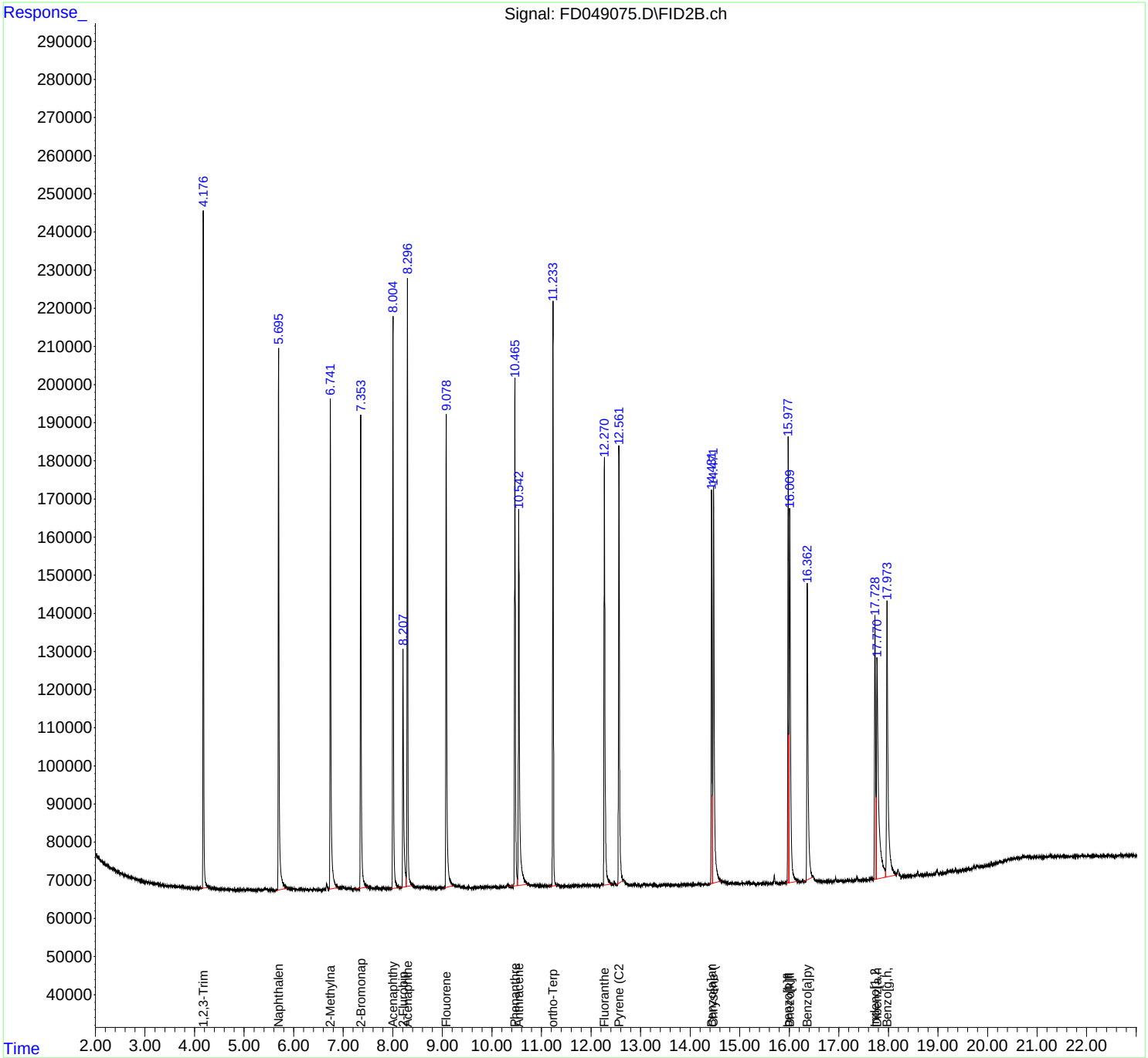
(f)=RT Delta > 1/2 Window (m)=manual int.

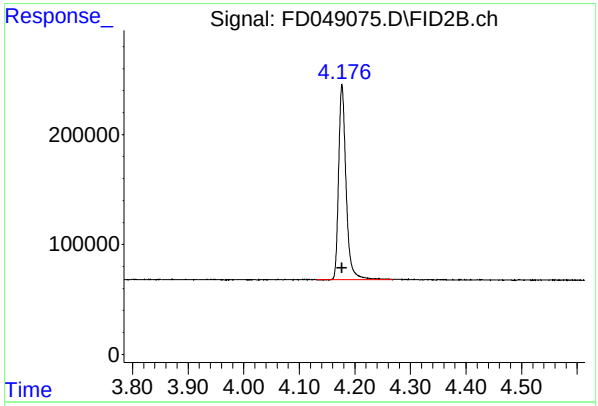
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Feb 10 15:56:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 15:56:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

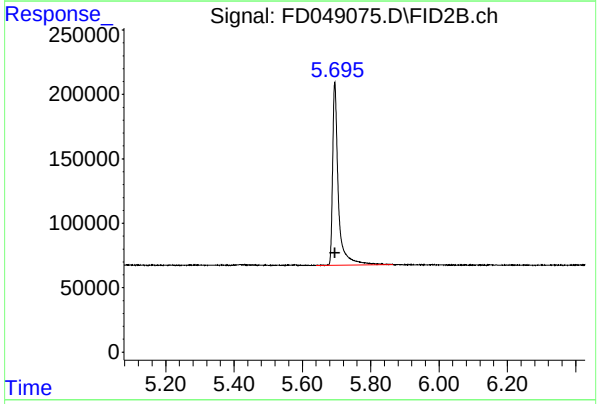




#1 1,2,3-Trimethylbenzene (C10.1)

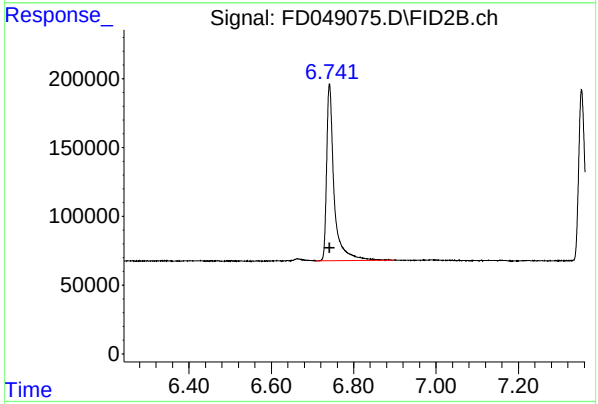
R.T.: 4.177 min
Delta R.T.: 0.000 min
Response: 1656548
Conc: 10.69 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



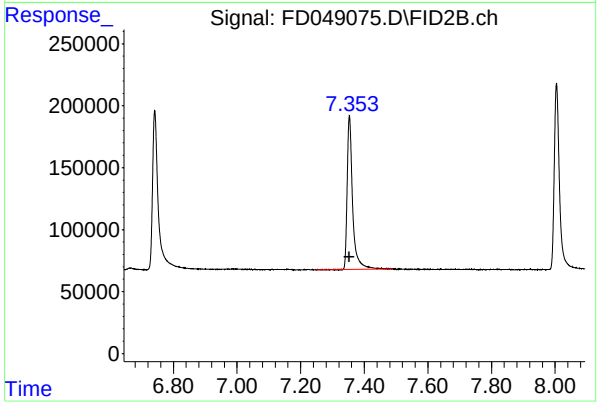
#2 Naphthalene (C11.7)

R.T.: 5.695 min
Delta R.T.: 0.000 min
Response: 1661529
Conc: 10.55 ug/ml



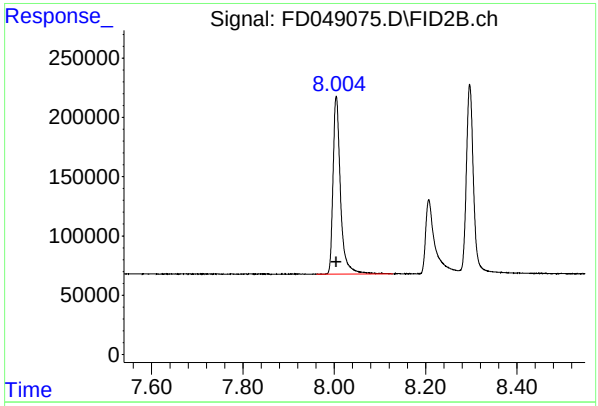
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.741 min
Delta R.T.: 0.000 min
Response: 1621317
Conc: 10.52 ug/ml



#4 2-Bromonaphthalene (SURR)

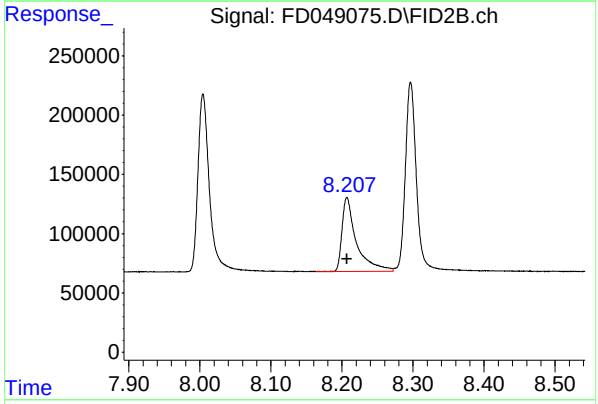
R.T.: 7.353 min
Delta R.T.: 0.000 min
Response: 1471043
Conc: 10.49 ug/ml



#5 Acenaphthylene (C15.06)

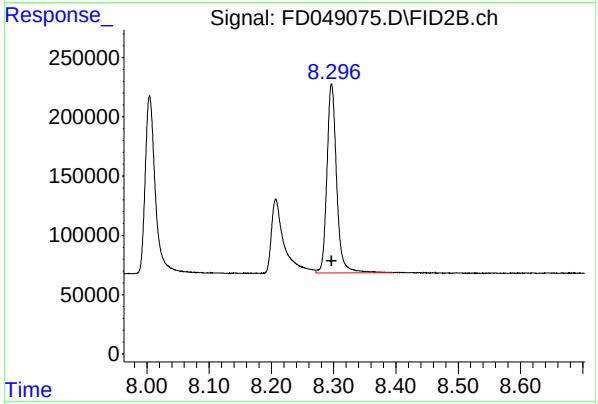
R.T.: 8.005 min
Delta R.T.: 0.000 min
Response: 1694814
Conc: 10.67 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



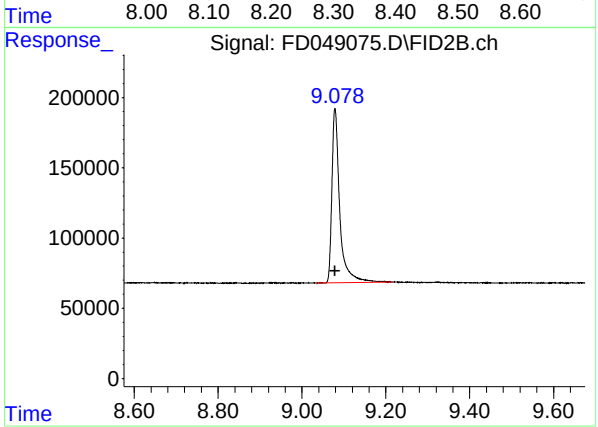
#6 2-Flurobiphenyl (SURR)

R.T.: 8.207 min
Delta R.T.: 0.000 min
Response: 875829
Conc: 9.81 ug/ml



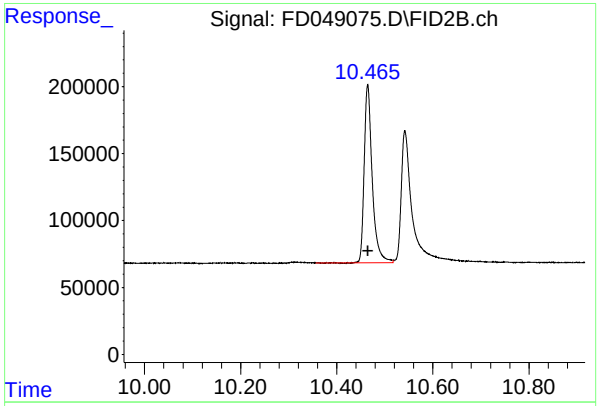
#7 Acenaphthene (C15.5)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 1725833
Conc: 10.89 ug/ml



#8 Flouorene (C16.55)

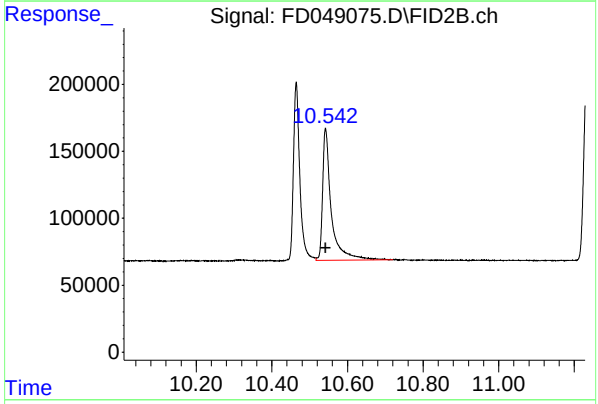
R.T.: 9.079 min
Delta R.T.: 0.000 min
Response: 1621856
Conc: 10.46 ug/ml



#9 Phenanthrene (C19.36)

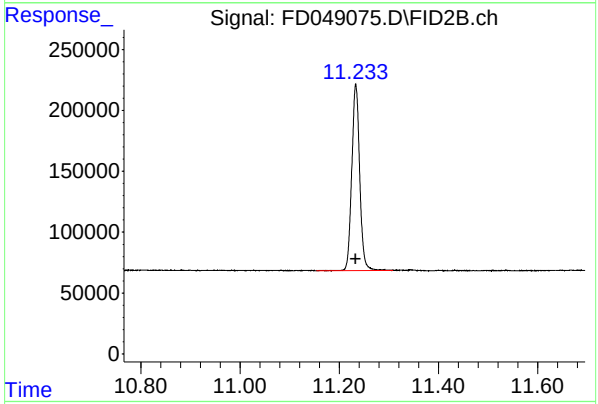
R.T.: 10.465 min
Delta R.T.: 0.000 min
Response: 1539045
Conc: 10.32 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



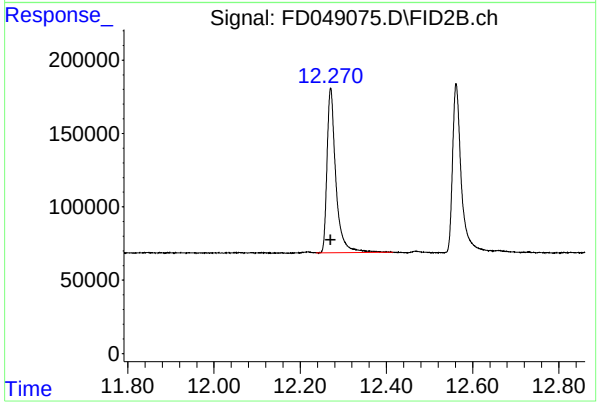
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.000 min
Response: 1567931
Conc: 10.49 ug/ml



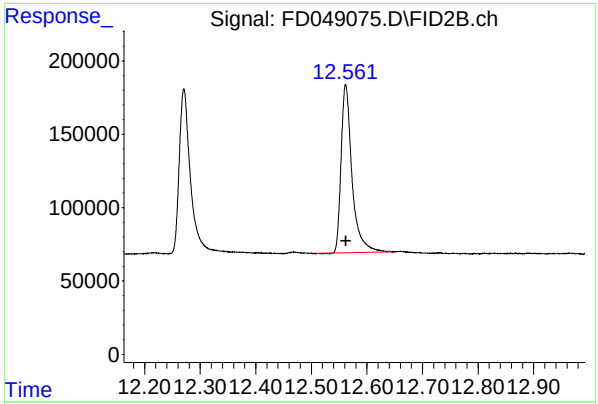
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 1694149
Conc: 10.76 ug/ml



#12 Fluoranthene (C21.85)

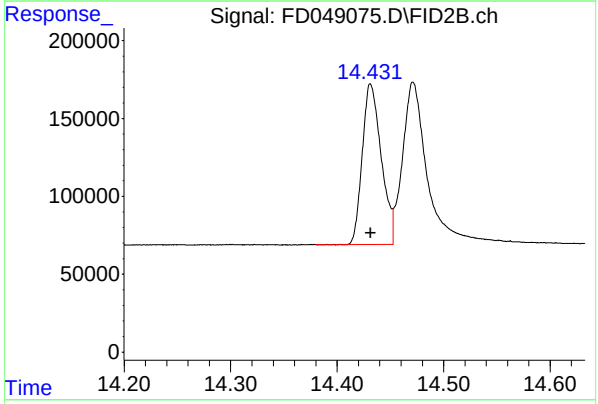
R.T.: 12.271 min
Delta R.T.: 0.000 min
Response: 1592182
Conc: 10.48 ug/ml



#13 Pyrene (C20.8)

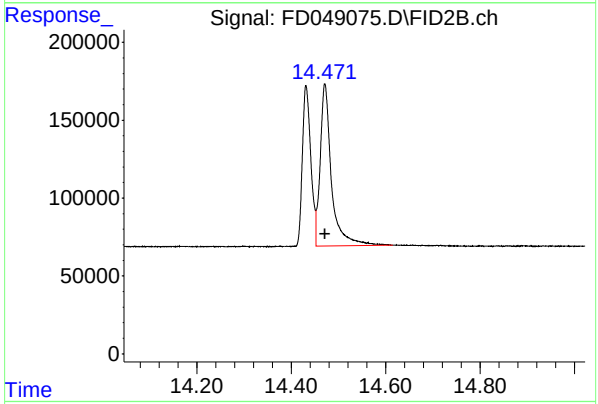
R.T.: 12.562 min
Delta R.T.: 0.000 min
Response: 1566919
Conc: 10.43 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



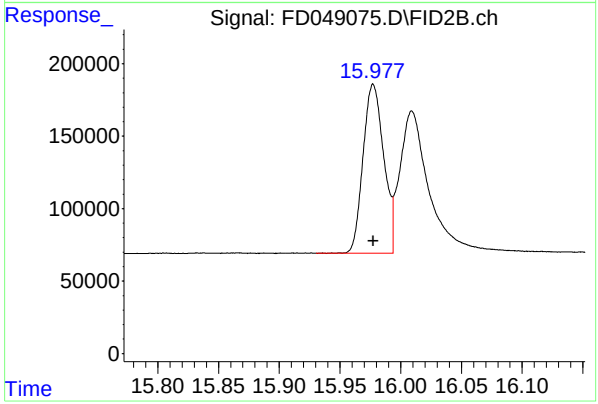
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.000 min
Response: 1271690
Conc: 9.42 ug/ml



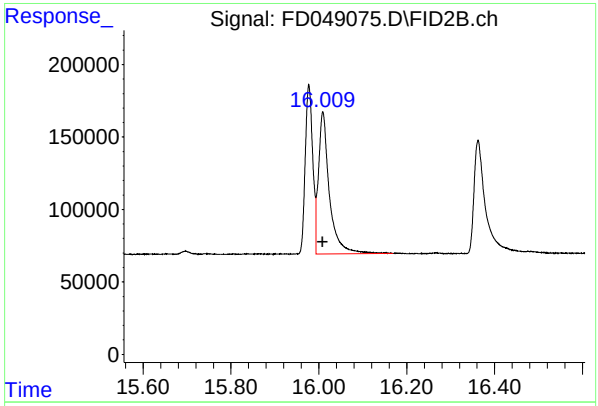
#15 Chrysene (C27.41)

R.T.: 14.471 min
Delta R.T.: 0.000 min
Response: 1725375
Conc: 11.24 ug/ml



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

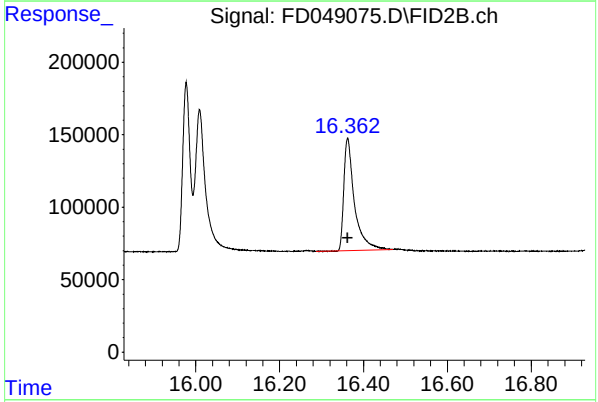
R.T.: 15.977 min
Delta R.T.: 0.000 min
Response: 1376748
Conc: 9.92 ug/ml



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

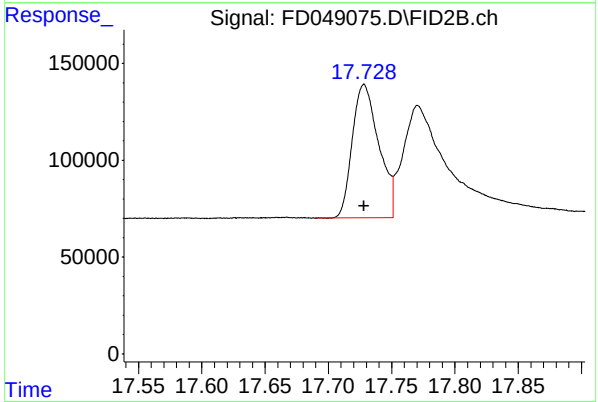
R.T.: 16.009 min
Delta R.T.: 0.000 min
Response: 1686985
Conc: 11.22 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



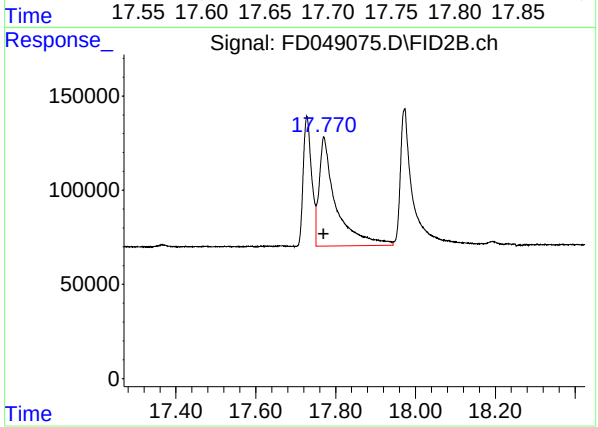
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.000 min
Response: 1358701
Conc: 10.19 ug/ml



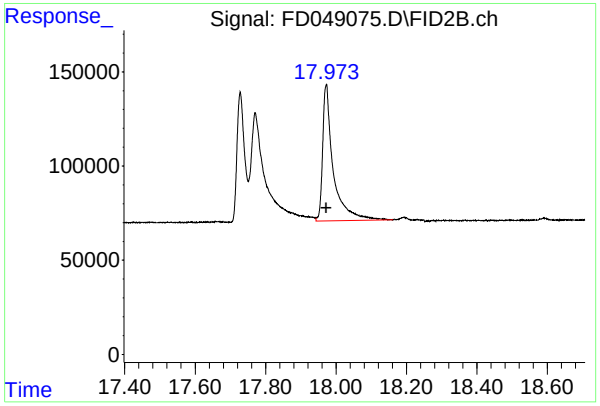
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.728 min
Delta R.T.: 0.000 min
Response: 1005197
Conc: 8.91 ug/ml



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

R.T.: 17.771 min
Delta R.T.: 0.000 min
Response: 1692264
Conc: 11.35 ug/ml



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

R.T.: 17.973 min
Delta R.T.: 0.000 mi
Response: 1516030
Conc: 10.78 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049075.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:12
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.177	4.130	4.269	BV	177205	1656548	95.99%	5.189%
2	5.695	5.640	5.865	BB	141933	1661529	96.27%	5.205%
3	6.741	6.709	6.895	BB	128539	1621317	93.94%	5.079%
4	7.353	7.249	7.490	BB	124068	1471043	85.24%	4.608%
5	8.005	7.960	8.129	BB	150103	1694814	98.20%	5.309%
6	8.207	8.164	8.272	BV	62427	875829	50.75%	2.744%
7	8.297	8.272	8.395	VB	159429	1725833	100.00%	5.406%
8	9.079	9.034	9.217	BB	124112	1621856	93.98%	5.081%
9	10.465	10.357	10.517	BV	133260	1539045	89.18%	4.821%
10	10.542	10.517	10.720	VB	98455	1567931	90.85%	4.912%
11	11.234	11.154	11.309	BB	153221	1694149	98.16%	5.307%
12	12.271	12.237	12.415	BB	112182	1592182	92.26%	4.988%
13	12.562	12.509	12.647	BV	114740	1566919	90.79%	4.909%
14	14.431	14.380	14.452	BV	102861	1271690	73.69%	3.984%
15	14.471	14.452	14.615	VB	104040	1725375	99.97%	5.405%
16	15.977	15.930	15.994	BV	116644	1376748	79.77%	4.313%
17	16.009	15.994	16.169	VB	98055	1686985	97.75%	5.285%
18	16.362	16.287	16.470	BV	77646	1358701	78.73%	4.256%
19	17.728	17.690	17.751	BV	69162	1005197	58.24%	3.149%
20	17.771	17.751	17.944	VV	57989	1692264	98.05%	5.301%
21	17.973	17.944	18.162	VV	72731	1516030	87.84%	4.749%

Sum of corrected areas: 31921984

Aromatic EPH 021125.M Tue Feb 11 00:33:53 2025

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:	10 Feb 2025 15:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049076.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.793	1700032.000	10.000	ug/ml
Aromatic C12-C16	5.794	8.396	2641021.000	15.000	ug/ml
Aromatic C16-C21	8.397	12.658	3256475.000	20.000	ug/ml
Aromatic C21-C36	12.659	18.067	6892110.000	45.000	ug/ml
Aromatic EPH	4.075	18.067	14489638.000	90.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 10 16:26:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:26:18 2025
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...	7.358	773691	5.406 ug/ml
Spiked Amount	50.000		Recovery =	10.81%
6) S	2-Flurobiphenyl (SURR)	8.218	411369	4.679 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.36%
11) S	ortho-Terphenyl (SURR)	11.234	896262	5.540 ug/ml
Spiked Amount	50.000		Recovery =	11.08%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.178	880662	5.530 ug/ml
2) T	Naphthalene (C11.7)	5.699	819370	5.160 ug/ml
3) T	2-Methylnaphthalene (...	6.746	809055	5.196 ug/ml
5) T	Acenaphthylene (C15.06)	8.007	889357	5.469 ug/ml
7) T	Acenaphthene (C15.5)	8.298	942609	5.730 ug/ml
8) T	Flouorene (C16.55)	9.085	839593	5.326 ug/ml
9) T	Phenanthrene (C19.36)	10.472	783663	5.200 ug/ml
10) T	Anthracene (C19.43)	10.552	786469	5.207 ug/ml
12) T	Fluoranthene (C21.85)	12.279	819618	5.311 ug/ml
13) T	Pyrene (C20.8)	12.567	846750	5.496 ug/ml
14) T	Benzo[a]anthracene (C...	14.443	584303	4.447 ug/ml
15) T	Chrysene (C27.41)	14.479	971932	6.011 ug/ml
16) T	benzo[b]fluoranthene ...	15.986	664702	4.831 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.019	942068	5.965 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.376	726171	5.350 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.745	475672	4.353 ug/ml
20) T	Dibenz[a,h]anthracene...	17.788	897828	5.787 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	809816	5.587 ug/ml

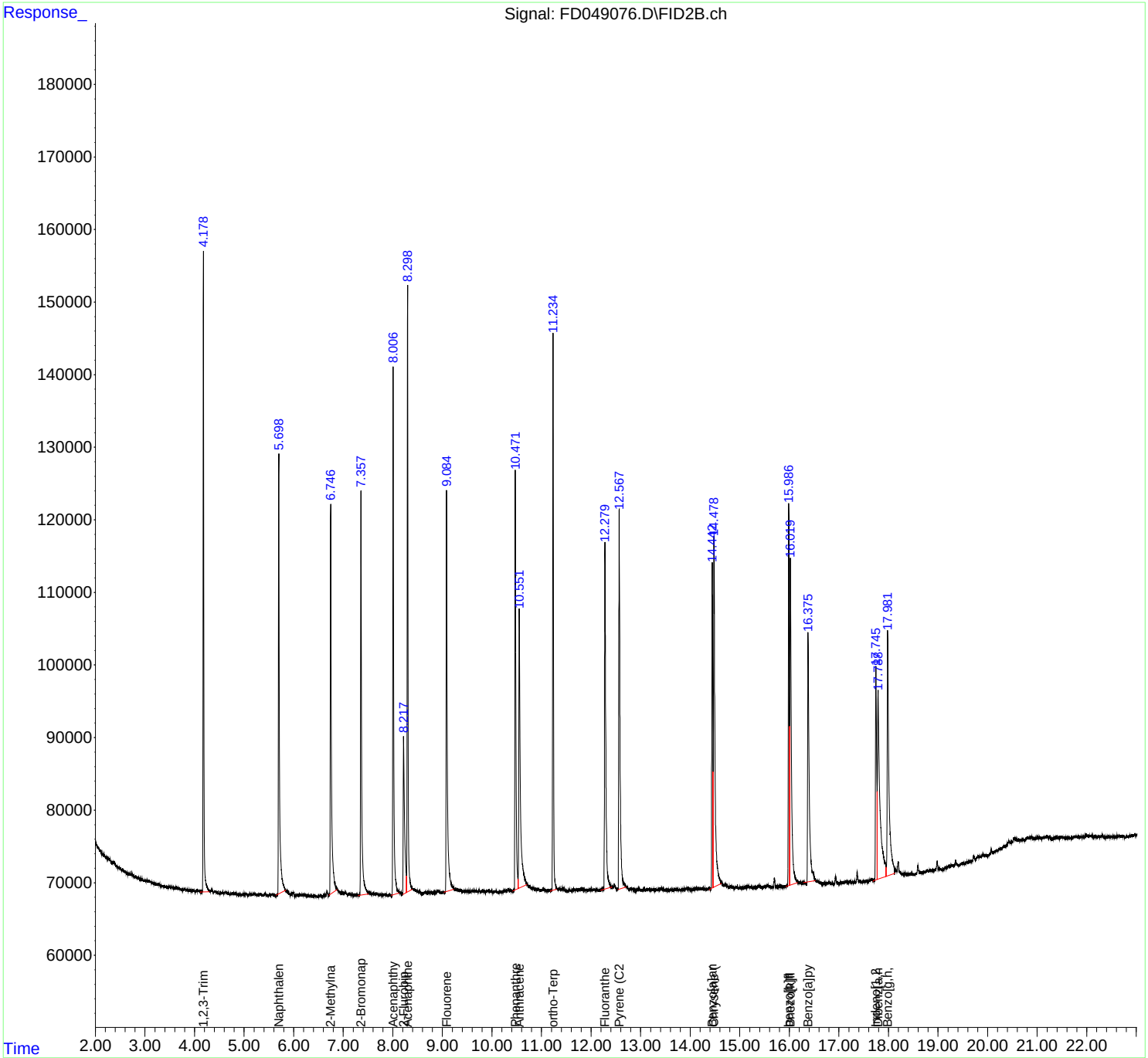
(f)=RT Delta > 1/2 Window (m)=manual int.

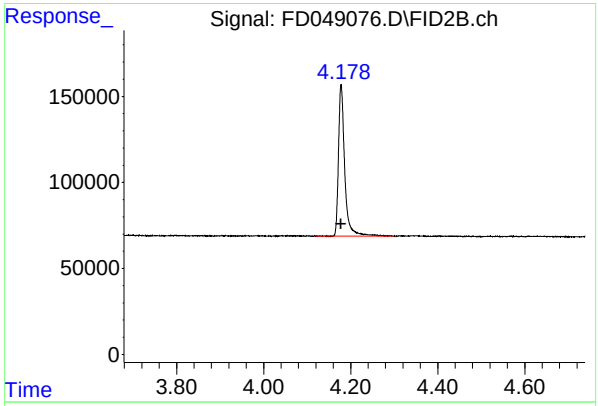
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Feb 10 16:26:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:26:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

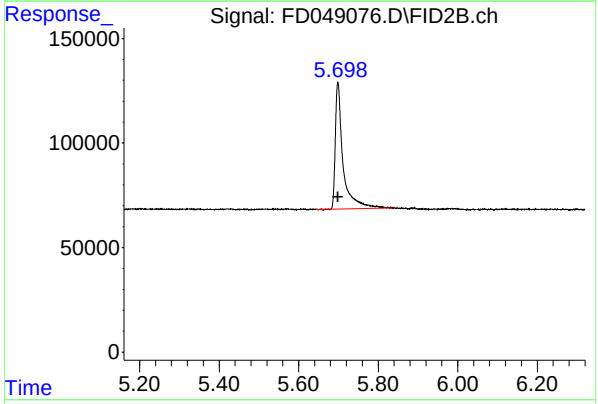




#1 1,2,3-Trimethylbenzene (C10.1)

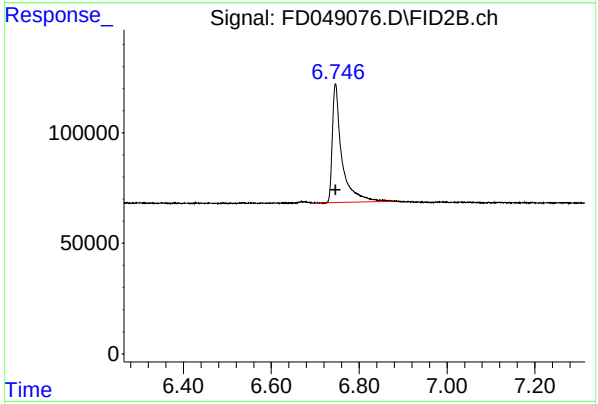
R.T.: 4.178 min
Delta R.T.: 0.000 min
Response: 880662
Conc: 5.53 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



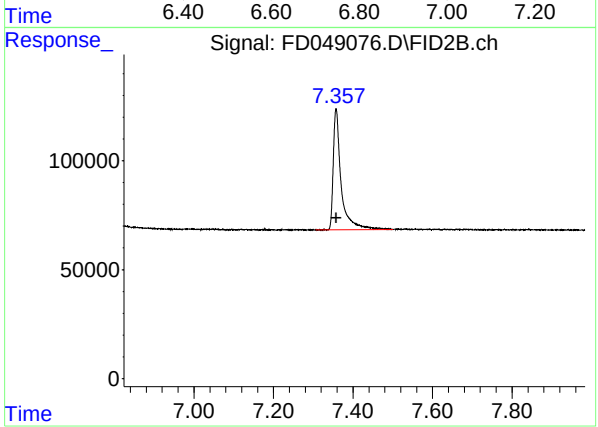
#2 Naphthalene (C11.7)

R.T.: 5.699 min
Delta R.T.: 0.000 min
Response: 819370
Conc: 5.16 ug/ml



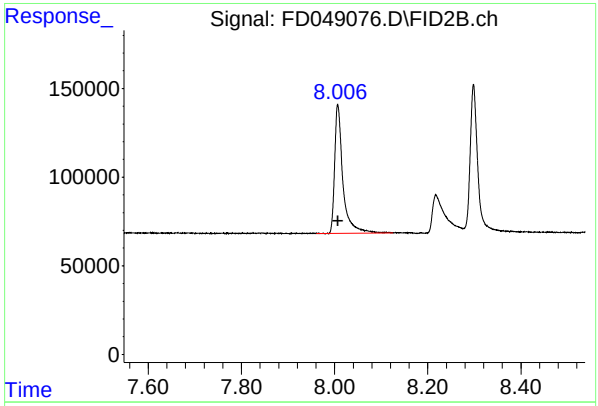
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.746 min
Delta R.T.: 0.000 min
Response: 809055
Conc: 5.20 ug/ml



#4 2-Bromonaphthalene (SURR)

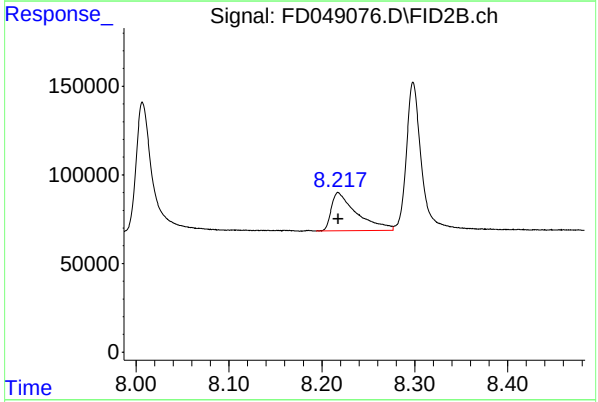
R.T.: 7.358 min
Delta R.T.: 0.000 min
Response: 773691
Conc: 5.41 ug/ml



#5 Acenaphthylene (C15.06)

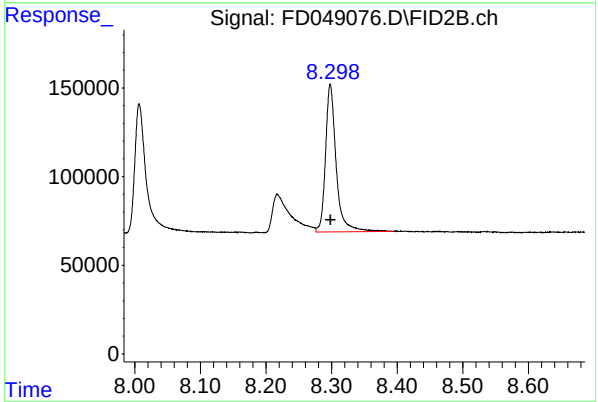
R.T.: 8.007 min
Delta R.T.: 0.000 min
Response: 889357
Conc: 5.47 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



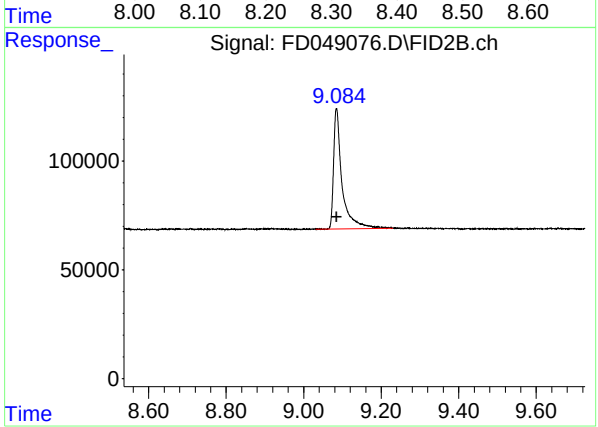
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 411369
Conc: 4.68 ug/ml



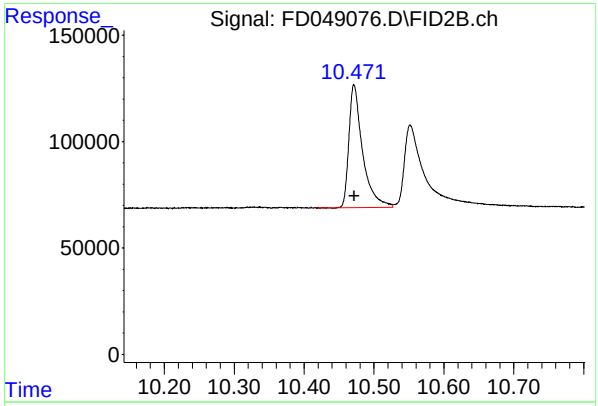
#7 Acenaphthene (C15.5)

R.T.: 8.298 min
Delta R.T.: 0.000 min
Response: 942609
Conc: 5.73 ug/ml



#8 Flouorene (C16.55)

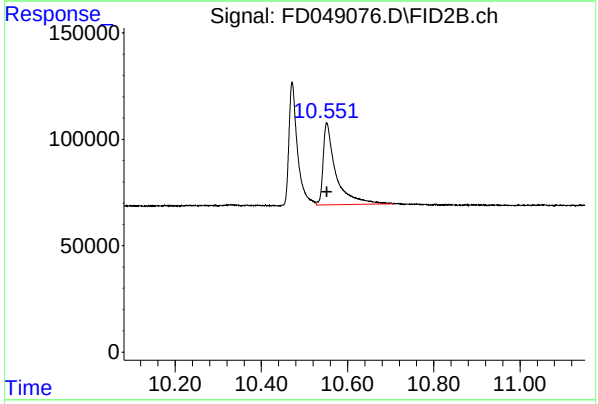
R.T.: 9.085 min
Delta R.T.: 0.000 min
Response: 839593
Conc: 5.33 ug/ml



#9 Phenanthrene (C19.36)

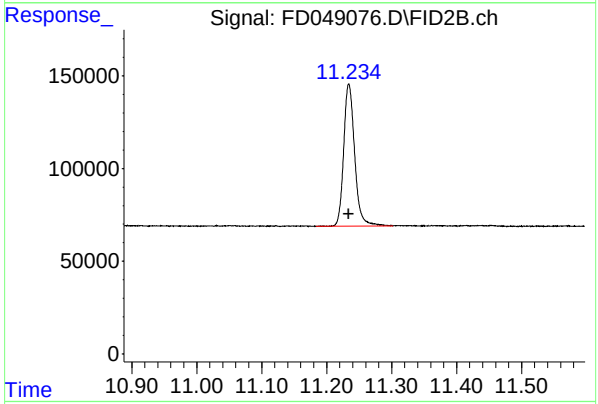
R.T.: 10.472 min
Delta R.T.: 0.000 min
Response: 783663
Conc: 5.20 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



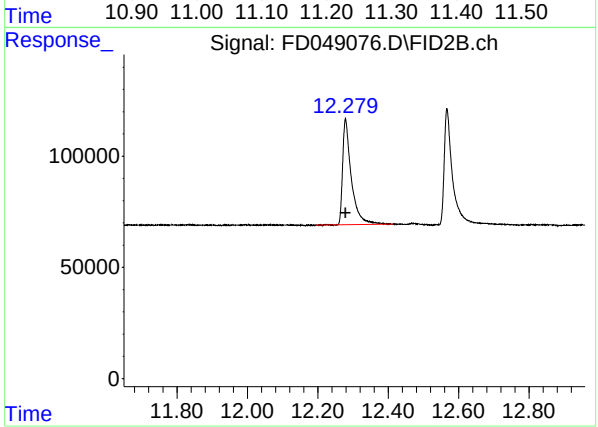
#10 Anthracene (C19.43)

R.T.: 10.552 min
Delta R.T.: 0.000 min
Response: 786469
Conc: 5.21 ug/ml



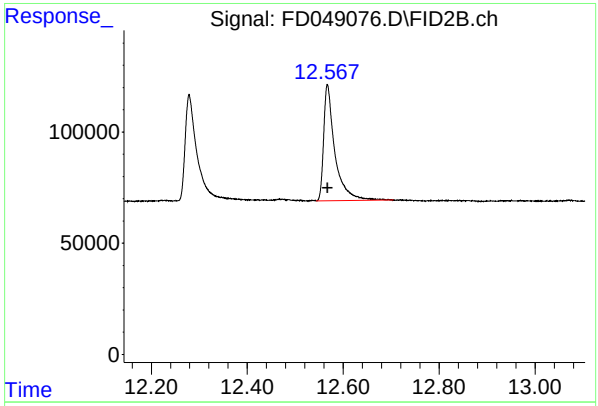
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 896262
Conc: 5.54 ug/ml



#12 Fluoranthene (C21.85)

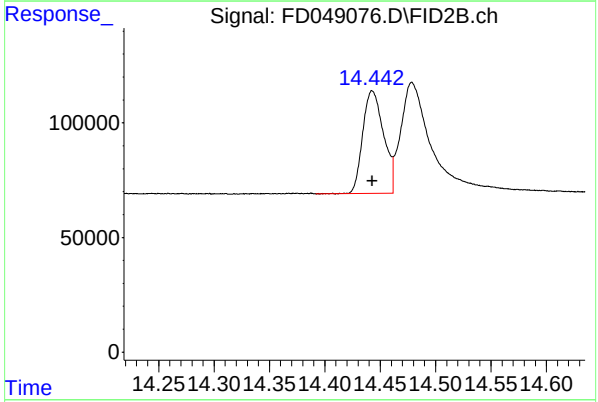
R.T.: 12.279 min
Delta R.T.: 0.000 min
Response: 819618
Conc: 5.31 ug/ml



#13 Pyrene (C20.8)

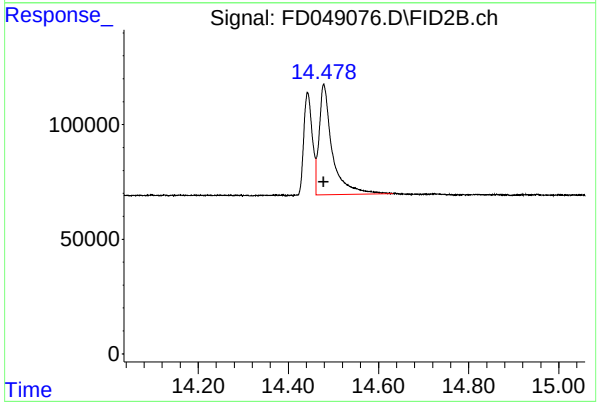
R.T.: 12.567 min
Delta R.T.: 0.000 min
Response: 846750
Conc: 5.50 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



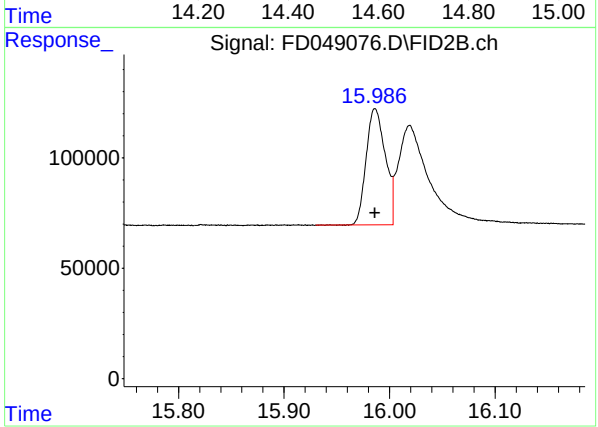
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 584303
Conc: 4.45 ug/ml



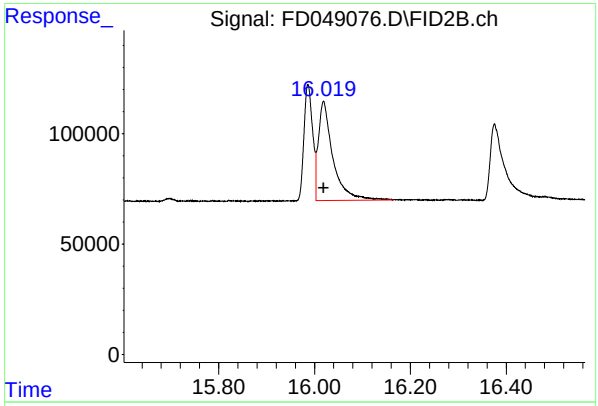
#15 Chrysene (C27.41)

R.T.: 14.479 min
Delta R.T.: 0.000 min
Response: 971932
Conc: 6.01 ug/ml



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

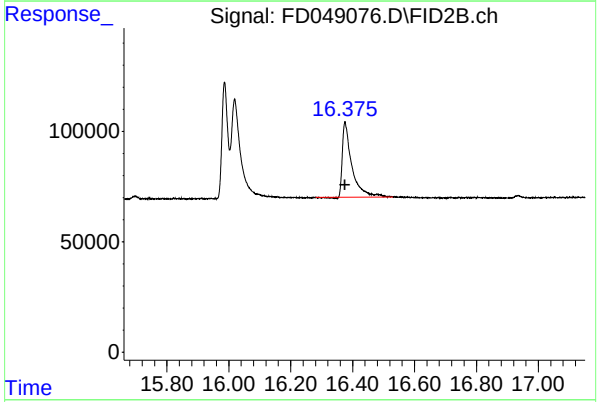
R.T.: 15.986 min
Delta R.T.: 0.000 min
Response: 664702
Conc: 4.83 ug/ml



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

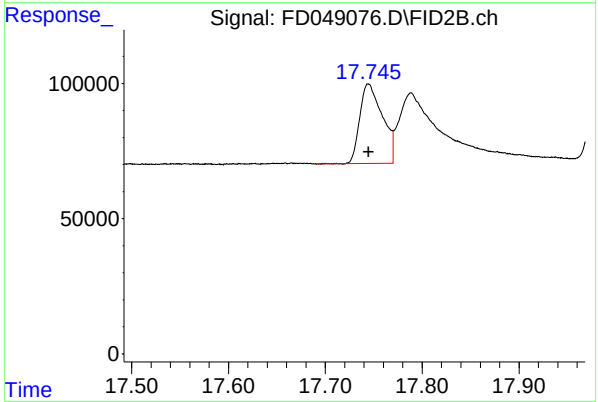
R.T.: 16.019 min
Delta R.T.: 0.000 min
Response: 942068
Conc: 5.96 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



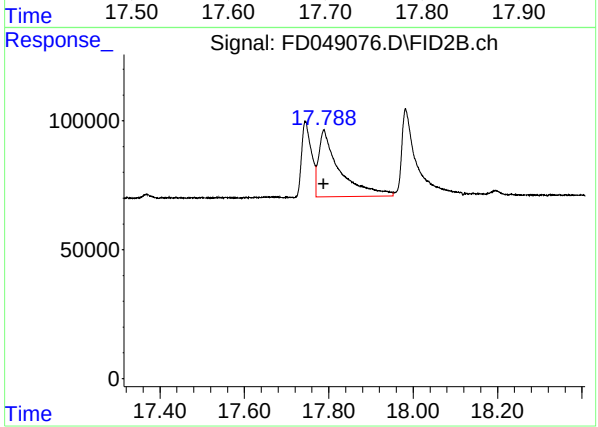
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.376 min
Delta R.T.: 0.000 min
Response: 726171
Conc: 5.35 ug/ml



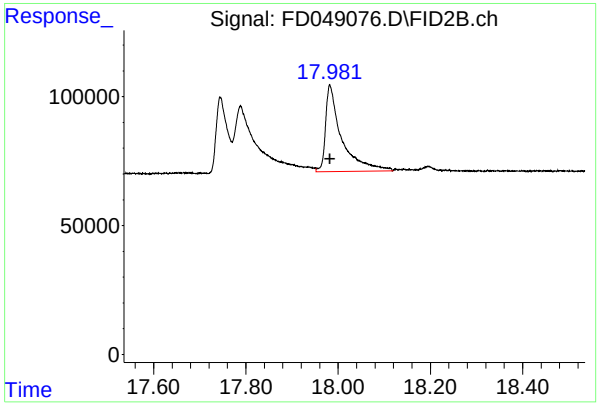
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.745 min
Delta R.T.: 0.000 min
Response: 475672
Conc: 4.35 ug/ml



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

R.T.: 17.788 min
Delta R.T.: 0.000 min
Response: 897828
Conc: 5.79 ug/ml



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

R.T.: 17.982 min
Delta R.T.: 0.000 mi
Response: 809816
Conc: 5.59 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049076.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 15:48
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.178	4.120	4.297	BB	88104	880662	90.61%	5.314%
2	5.699	5.644	5.837	BB	60647	819370	84.30%	4.945%
3	6.746	6.702	6.877	BB	53740	809055	83.24%	4.882%
4	7.358	7.307	7.500	BV	55653	773691	79.60%	4.669%
5	8.007	7.960	8.125	BB	72554	889357	91.50%	5.367%
6	8.218	8.194	8.276	PV	21681	411369	42.32%	2.482%
7	8.298	8.276	8.394	VB	83456	942609	96.98%	5.688%
8	9.085	9.032	9.230	BB	55303	839593	86.38%	5.067%
9	10.472	10.417	10.527	BV	57501	783663	80.63%	4.729%
10	10.552	10.527	10.705	VB	38447	786469	80.92%	4.746%
11	11.234	11.184	11.302	BB	76762	896262	92.21%	5.409%
12	12.279	12.195	12.414	BB	47695	819618	84.33%	4.946%
13	12.567	12.543	12.704	PB	52249	846750	87.12%	5.110%
14	14.443	14.392	14.461	BV	44649	584303	60.12%	3.526%
15	14.479	14.461	14.632	VB	48318	971932	100.00%	5.865%
16	15.986	15.930	16.003	BV	52690	664702	68.39%	4.011%
17	16.019	16.003	16.164	VB	44953	942068	96.93%	5.685%
18	16.376	16.282	16.530	BB	34288	726171	74.71%	4.382%
19	17.745	17.690	17.770	BV	29384	475672	48.94%	2.871%
20	17.788	17.770	17.952	VV	26033	897828	92.38%	5.418%
21	17.982	17.952	18.119	VV	33694	809816	83.32%	4.887%
			Sum of corrected areas:			16570960		

Aromatic EPH 021125.M Tue Feb 11 00:34:06 2025

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:	10 Feb 2025 16:24
Client Sample ID:	20 PPM AROMATIC HC S	Operator:	YP/AJ
Data file:	FD049077.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.793	6281558	39.502	200	ug/ml
Aromatic C12-C16	5.794	8.396	9479312	58.901	300	ug/ml
Aromatic C16-C21	8.397	12.658	15178341	98.972	500	ug/ml
Aromatic C21-C36	12.659	18.067	22474640	157.039	800	ug/ml
Aromatic EPH	4.075	18.067	53413851	354.414		ug/ml
ortho-Terphenyl (SURR)	11.233	11.233	3178458	19.65		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	2822907	19.73		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	1781261	20.26		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Integration File: autoint1.e
Quant Time: Feb 10 18:23:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:27:29 2025
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...	7.352	2822907	19.726 ug/ml
Spiked Amount	50.000		Recovery =	39.45%
6) S	2-Flurobiphenyl (SURR)	8.203	1781261	20.262 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.52%
11) S	ortho-Terphenyl (SURR)	11.233	3178458	19.647 ug/ml
Spiked Amount	50.000		Recovery =	39.29%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3134755	19.684 ug/ml
2) T	Naphthalene (C11.7)	5.693	3146803	19.818 ug/ml
3) T	2-Methylnaphthalene (...	6.739	3087751	19.832 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3188327	19.608 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3203234	19.472 ug/ml
8) T	Flouorene (C16.55)	9.076	3106009	19.702 ug/ml
9) T	Phenanthrene (C19.36)	10.462	2995357	19.876 ug/ml
10) T	Anthracene (C19.43)	10.539	3001671	19.875 ug/ml
12) T	Fluoranthene (C21.85)	12.266	3059686	19.828 ug/ml
13) T	Pyrene (C20.8)	12.559	3015618	19.575 ug/ml
14) T	Benzo[a]anthracene (C...	14.428	2707067	20.603 ug/ml
15) T	Chrysene (C27.41)	14.470	3142097	19.433 ug/ml
16) T	benzo[b]fluoranthene ...	15.976	2807062	20.401 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.007	3031459	19.193 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.354	2694826	19.853 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.718	2162922	19.793 ug/mlm
20) T	Dibenz[a,h]anthracene...	17.759	3098291	19.971 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.967	2849147	19.656 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

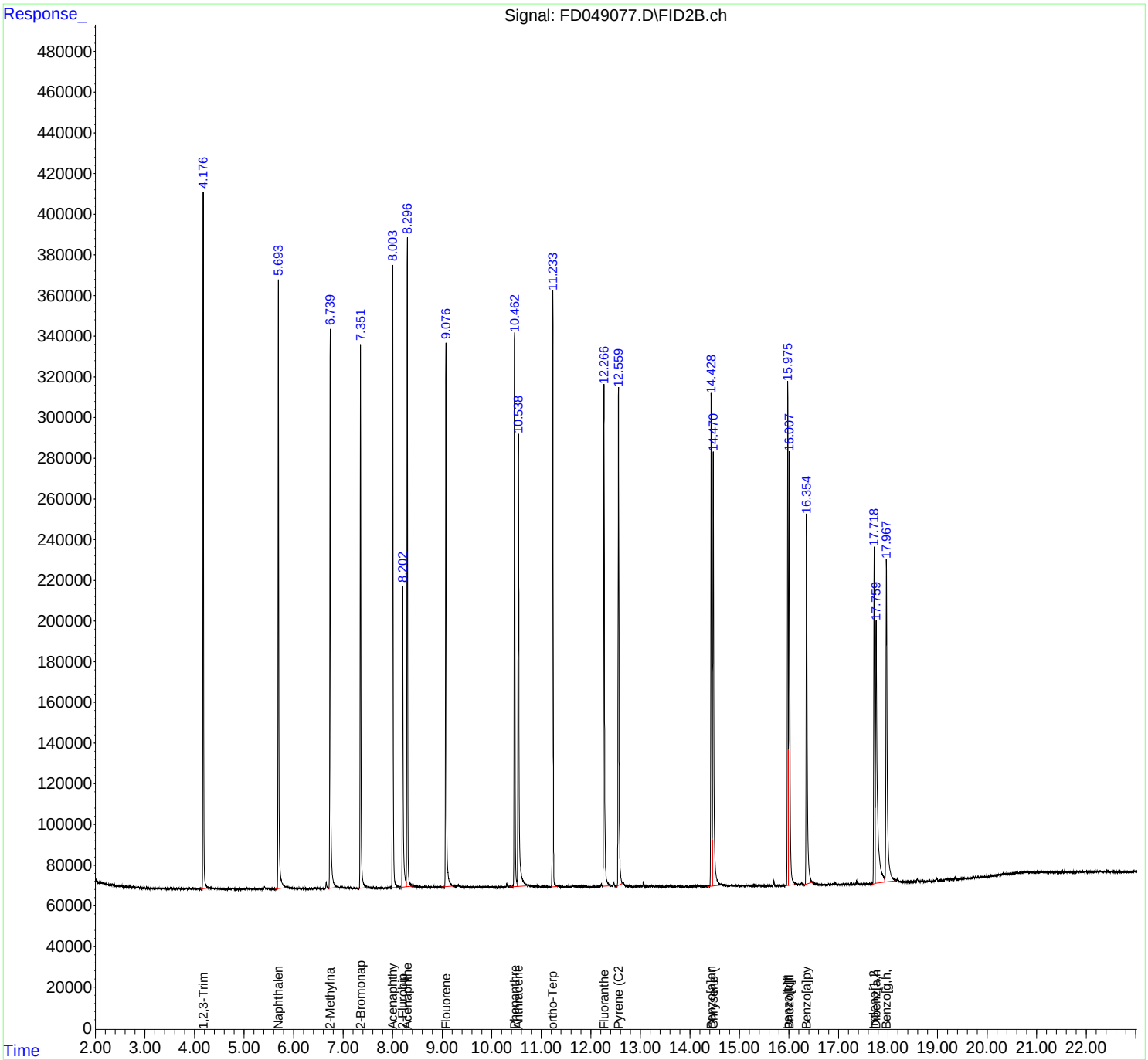
Integration File: autoint1.e
Quant Time: Feb 10 18:23:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Mon Feb 10 16:27:29 2025
Response via : Initial Calibration
Integrator: ChemStation

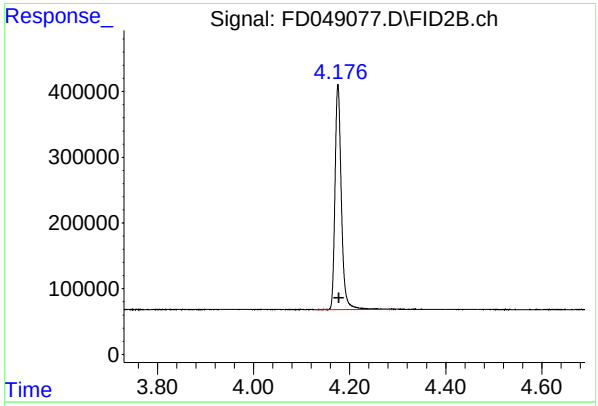
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025





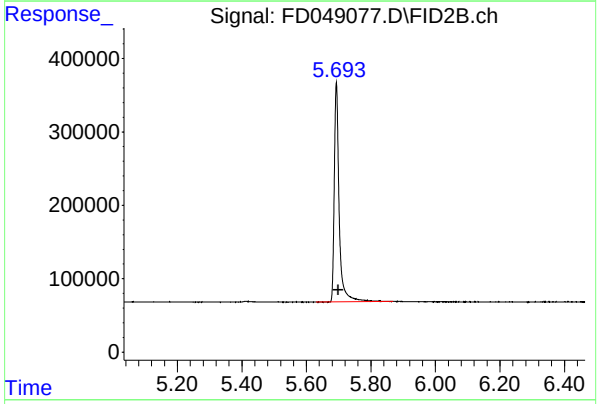
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.176 min
Delta R.T.: -0.002 min
Response: 3134755
Conc: 19.68 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

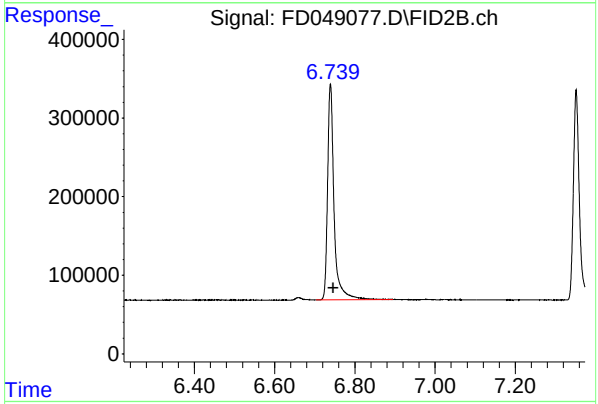
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



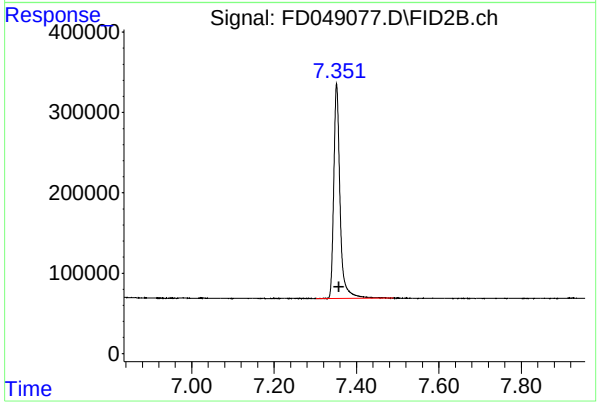
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: -0.006 min
Response: 3146803
Conc: 19.82 ug/ml



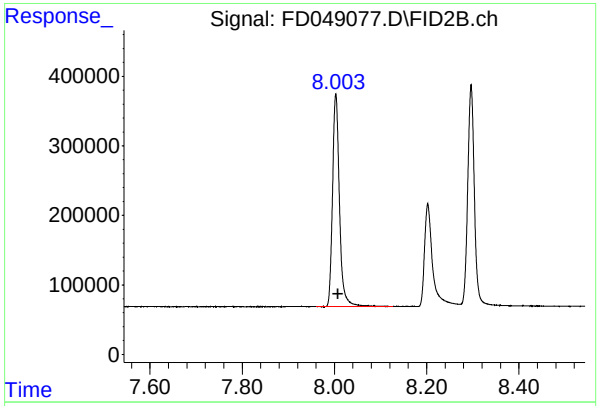
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: -0.007 min
Response: 3087751
Conc: 19.83 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.352 min
Delta R.T.: -0.006 min
Response: 2822907
Conc: 19.73 ug/ml



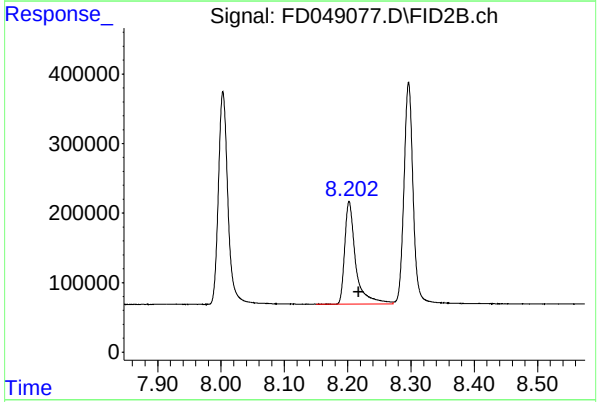
#5 Acenaphthylene (C15.06)

R.T.: 8.003 min
Delta R.T.: -0.004 min
Response: 3188327
Conc: 19.61 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

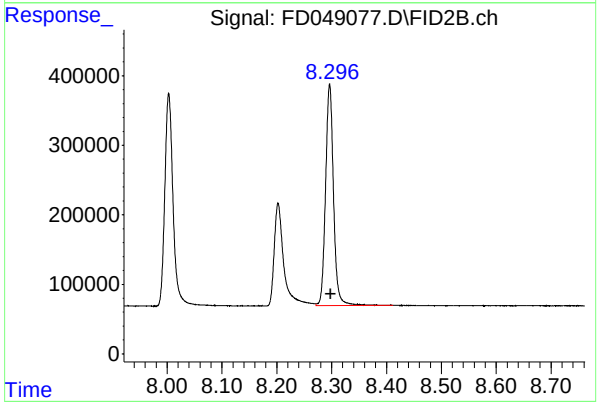
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



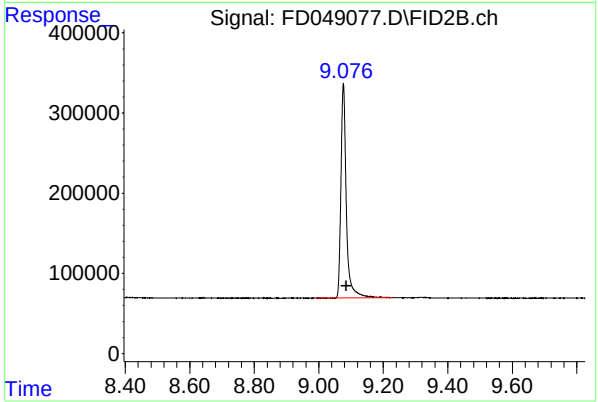
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: -0.015 min
Response: 1781261
Conc: 20.26 ug/ml



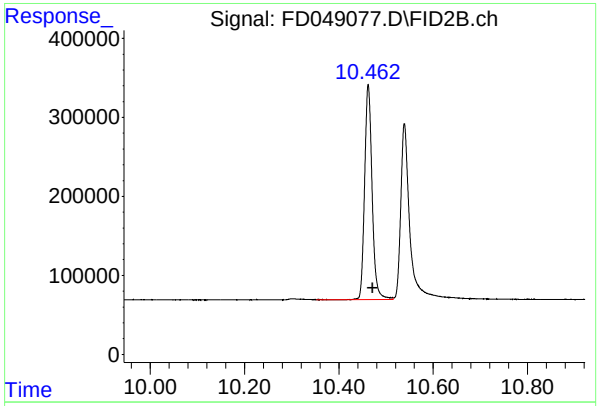
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: -0.002 min
Response: 3203234
Conc: 19.47 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.076 min
Delta R.T.: -0.008 min
Response: 3106009
Conc: 19.70 ug/ml



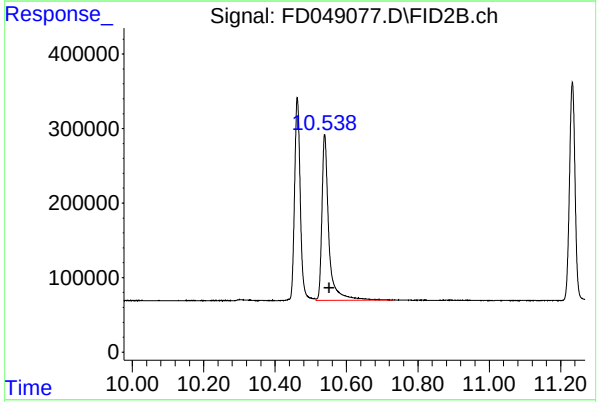
#9 Phenanthrene (C19.36)

R.T.: 10.462 min
Delta R.T.: -0.009 min
Response: 2995357
Conc: 19.88 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

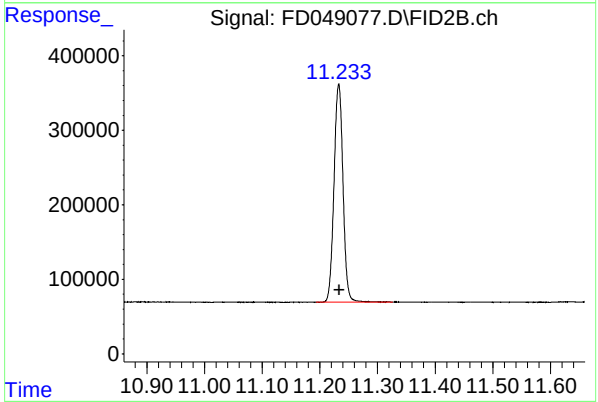
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



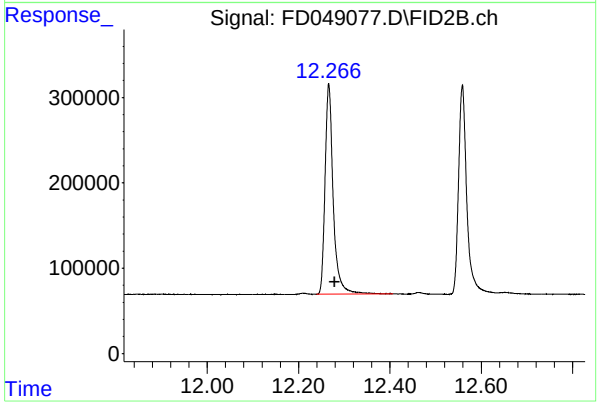
#10 Anthracene (C19.43)

R.T.: 10.539 min
Delta R.T.: -0.013 min
Response: 3001671
Conc: 19.87 ug/ml



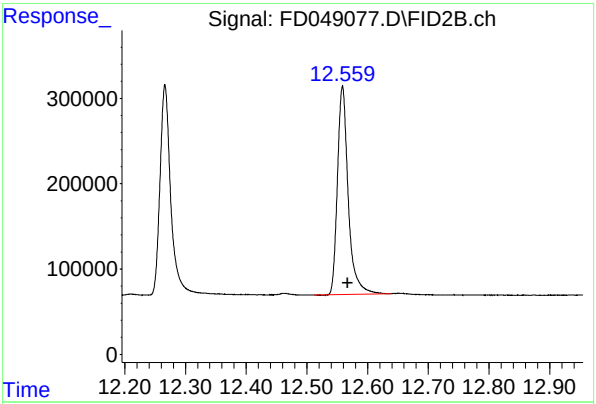
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: -0.001 min
Response: 3178458
Conc: 19.65 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.266 min
Delta R.T.: -0.013 min
Response: 3059686
Conc: 19.83 ug/ml



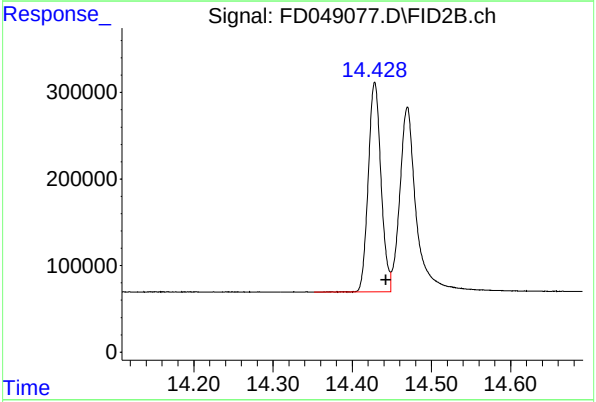
#13 Pyrene (C20.8)

R.T.: 12.559 min
Delta R.T.: -0.008 min
Response: 3015618
Conc: 19.57 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

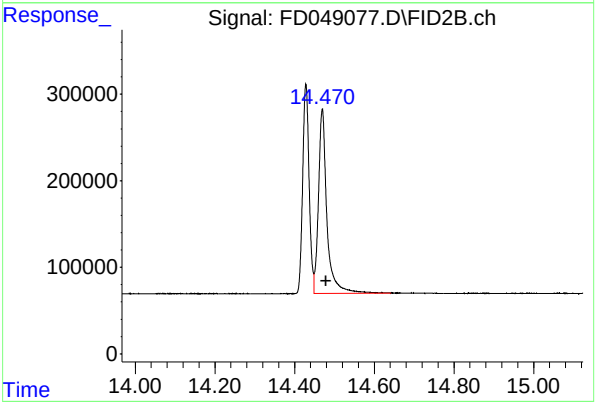
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



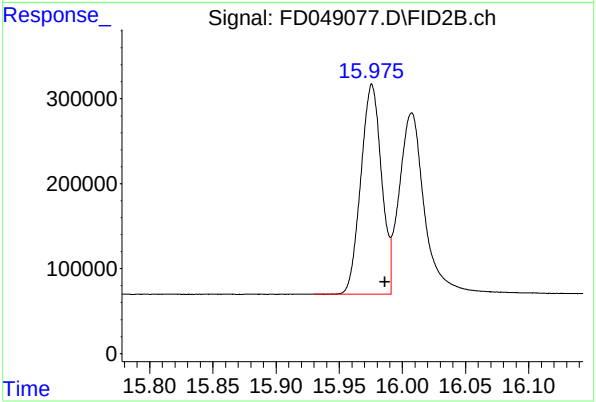
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.428 min
Delta R.T.: -0.014 min
Response: 2707067
Conc: 20.60 ug/ml



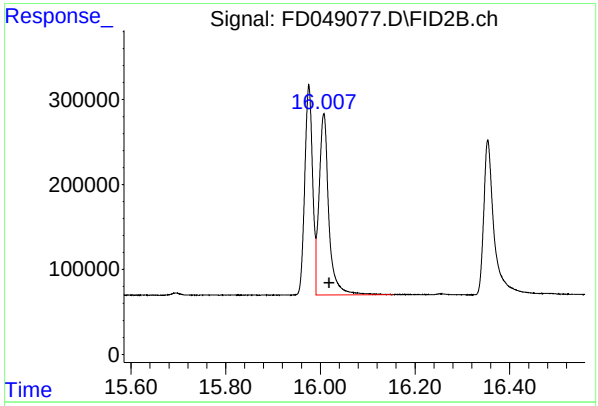
#15 Chrysene (C27.41)

R.T.: 14.470 min
Delta R.T.: -0.009 min
Response: 3142097
Conc: 19.43 ug/ml



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

R.T.: 15.976 min
Delta R.T.: -0.010 min
Response: 2807062
Conc: 20.40 ug/ml



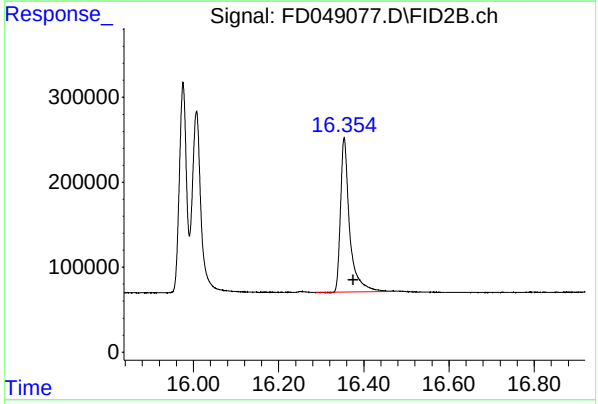
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.007 min
Delta R.T.: -0.012 min
Response: 3031459
Conc: 19.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

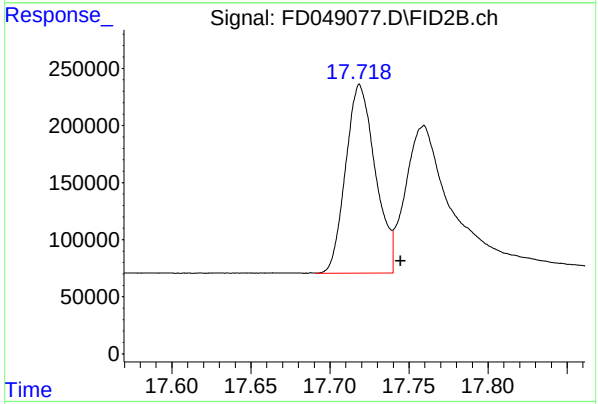
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025



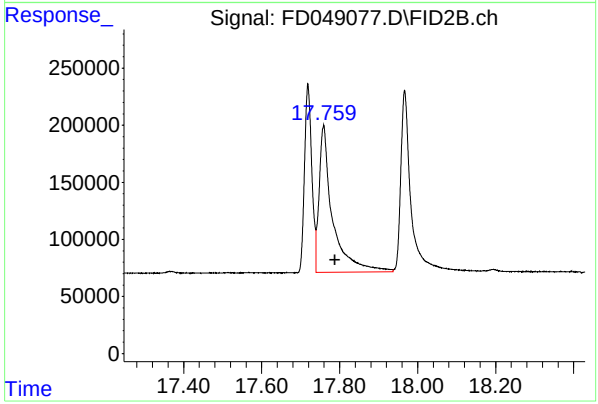
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.354 min
Delta R.T.: -0.022 min
Response: 2694826
Conc: 19.85 ug/ml



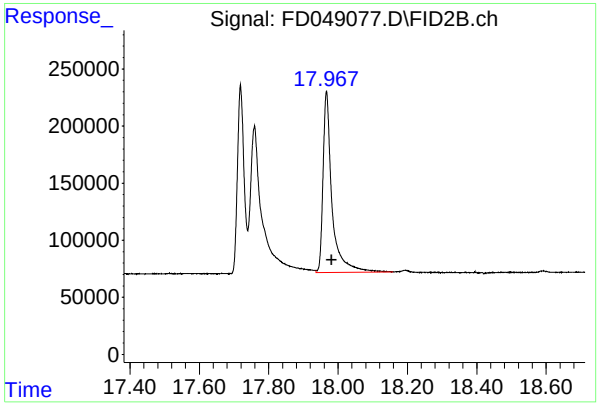
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.718 min
Delta R.T.: -0.026 min
Response: 2162922
Conc: 19.79 ug/ml m



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

R.T.: 17.759 min
Delta R.T.: -0.029 min
Response: 3098291
Conc: 19.97 ug/ml



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

R.T.: 17.967 min
Delta R.T.: -0.015 mi
Response: 2849147
Conc: 19.66 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/11/2025
Supervised By :Ankita Jodhani 02/11/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02112
Data File : FD049077.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 16:24
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.176	4.130	4.290	BV	342184	3134755	97.86%	5.122%
2	5.693	5.630	5.868	BB	299016	3146803	98.24%	5.142%
3	6.739	6.703	6.895	BB	275219	3087751	96.39%	5.046%
4	7.352	7.302	7.488	BB	267137	2822907	88.13%	4.613%
5	8.003	7.960	8.127	BB	305766	3188327	99.53%	5.210%
6	8.203	8.150	8.272	BV	147711	1781261	55.61%	2.911%
7	8.296	8.272	8.412	VB	318821	3203234	100.00%	5.234%
8	9.076	8.992	9.230	BB	267490	3106009	96.96%	5.075%
9	10.462	10.352	10.515	BV	272649	2995357	93.51%	4.895%
10	10.539	10.515	10.730	VV	223108	3001671	93.71%	4.905%
11	11.233	11.193	11.327	BB	293357	3178458	99.23%	5.194%
12	12.266	12.238	12.407	BB	246286	3059686	95.52%	5.000%
13	12.559	12.512	12.638	BV	244060	3015618	94.14%	4.928%
14	14.428	14.352	14.449	BV	242288	2707067	84.51%	4.424%
15	14.470	14.449	14.642	VB	214017	3142097	98.09%	5.134%
16	15.976	15.930	15.991	BV	246799	2807062	87.63%	4.587%
17	16.007	15.991	16.153	VB	213051	3031459	94.64%	4.954%
18	16.354	16.288	16.468	PV	181424	2694826	84.13%	4.404%
19	17.719	17.690	17.740	BV	165163	2144691	66.95%	3.505%
20	17.759	17.740	17.937	VV	128285	3098291	96.72%	5.063%
21	17.967	17.937	18.158	VB	158807	2849147	88.95%	4.656%
			Sum of corrected areas:			61196477		

Aromatic EPH 021125.M Tue Feb 11 00:34:31 2025

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

Continuing Calibration Report for SequenceID : FC022725AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068305.D**						
Aliphatic C9-C12	8508042.000	60.000	3.104	6.370	141800.700	141035.502	-0.543
Aliphatic C12-C16	5470185.000	40.000	6.371	9.754	136754.625	136654.515	-0.073
Aliphatic C16-C21	7891316.000	60.000	9.755	13.108	131521.933	131630.895	0.083
Aliphatic C21-C28	9875338.000	80.000	13.109	16.762	123441.725	122691.322	-0.612
Aliphatic C28-C40	12419303.000	120.000	16.763	21.566	103494.192	102846.462	-0.630
Aliphatic EPH	44164184.000	360.000	3.104	21.566	122678.289	122175.127	-0.412

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:	27 Feb 2025 08:35
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068305.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.370	8508042.000	60.000	ug/ml
Aliphatic C12-C16	6.371	9.754	5470185.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.108	7891316.000	60.000	ug/ml
Aliphatic C21-C28	13.109	16.762	9875338.000	80.000	ug/ml
Aliphatic C28-C40	16.763	21.566	12419303.000	120.000	ug/ml
Aliphatic EPH	3.104	21.566	44164184.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068305.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 08:35
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: Mar 05 04:43:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	11.397	3012962	19.636 ug/ml
	Spiked Amount 50.000		Recovery = 39.27%	
12)	S 1-chlorooctadecane (S...	12.839	2209163	19.641 ug/ml
	Spiked Amount 50.000		Recovery = 39.28%	
	Target Compounds			
1)	T n-Nonane (C9)	3.204	2820945	20.053 ug/ml
2)	T n-Decane (C10)	4.261	2860467	20.191 ug/ml
3)	T A~Naphthalene (C11.7)	5.828	3080036	20.126 ug/ml
4)	T n-Dodecane (C12)	6.270	2826630	20.081 ug/ml
5)	T A~2-methylnaphthalene...	6.881	2922228	20.177 ug/ml
6)	T n-Tetradecane (C14)	8.059	2724880	19.985 ug/ml
7)	T n-Hexadecane (C16)	9.654	2745305	20.044 ug/ml
8)	T n-Octadecane (C18)	11.092	2735800	20.005 ug/ml
10)	T n-Eicosane (C20)	12.399	2602340	19.974 ug/ml
11)	T n-Heneicosane (C21)	13.008	2553176	19.970 ug/ml
13)	T n-Docosane (C22)	13.594	2520745	20.001 ug/ml
14)	T n-Tetracosane (C24)	14.694	2501773	20.114 ug/ml
15)	T n-Hexacosane (C26)	15.714	2450259	20.151 ug/ml
16)	T n-Octacosane (C28)	16.662	2402561	20.229 ug/ml
17)	T n-Tricontane (C30)	17.549	2463685	20.468 ug/ml
18)	T n-Dotriacontane (C32)	18.380	2409233	20.757 ug/ml
19)	T n-Tetratriacontane (C34)	19.163	2161619	20.004 ug/ml
20)	T n-Hexatriacontane (C36)	19.902	1892710	19.681 ug/ml
21)	T n-Octatriacontane (C38)	20.613	1790381	19.916 ug/ml
22)	T n-Tetracontane (C40)	21.466	1701675	19.668 ug/ml

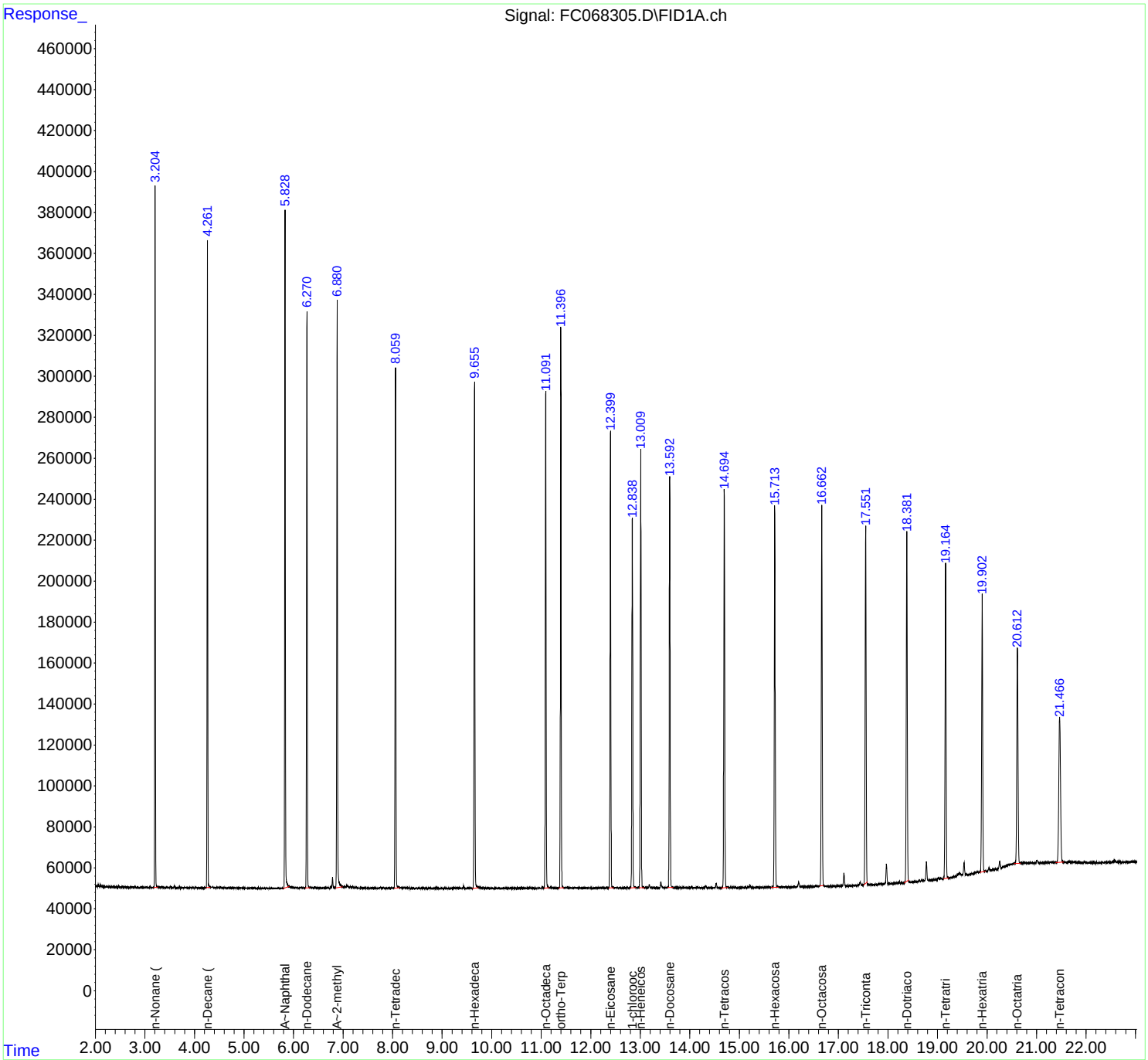
(f)=RT Delta > 1/2 Window (m)=manual int.

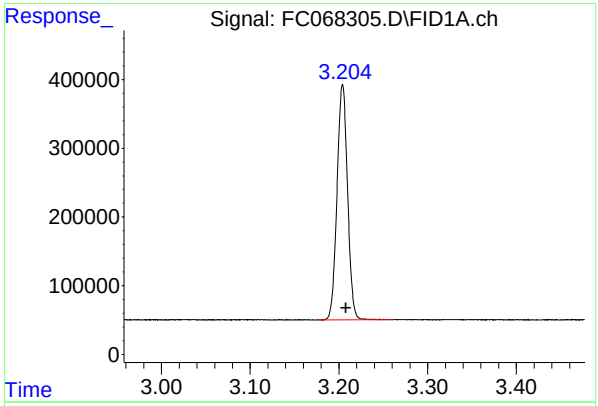
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068305.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 08:35
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 04:43:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

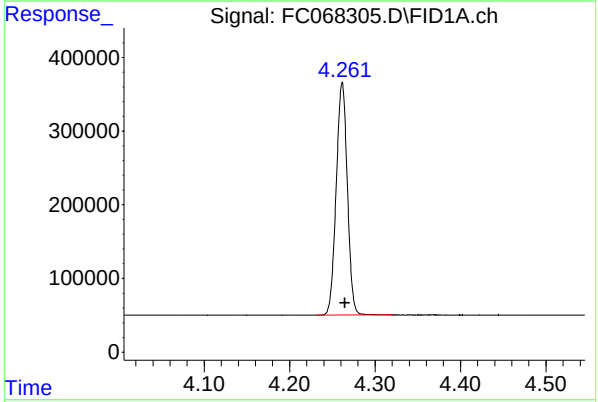




#1 n-Nonane (C9)

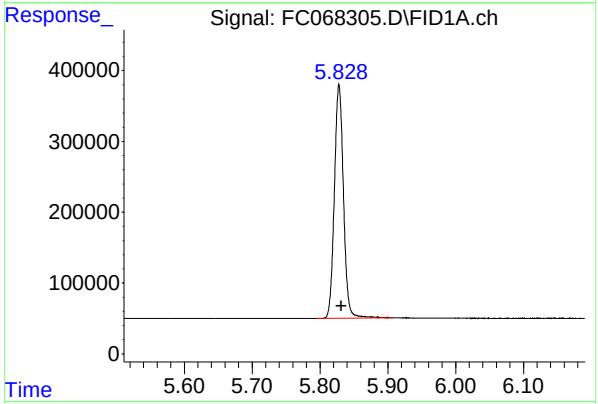
R.T.: 3.204 min
Delta R.T.: -0.004 min
Response: 2820945
Conc: 20.05 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



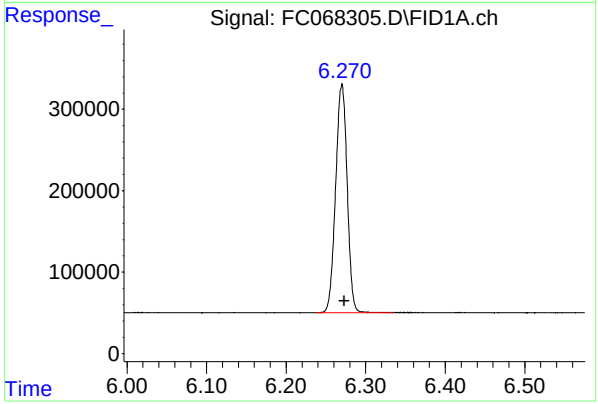
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.003 min
Response: 2860467
Conc: 20.19 ug/ml



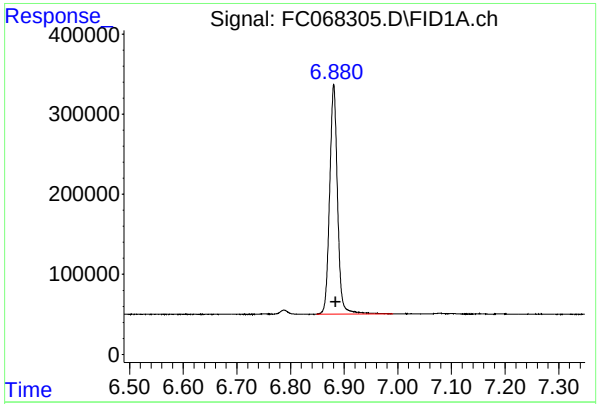
#3 A~Naphthalene (C11.7)

R.T.: 5.828 min
Delta R.T.: -0.003 min
Response: 3080036
Conc: 20.13 ug/ml



#4 n-Dodecane (C12)

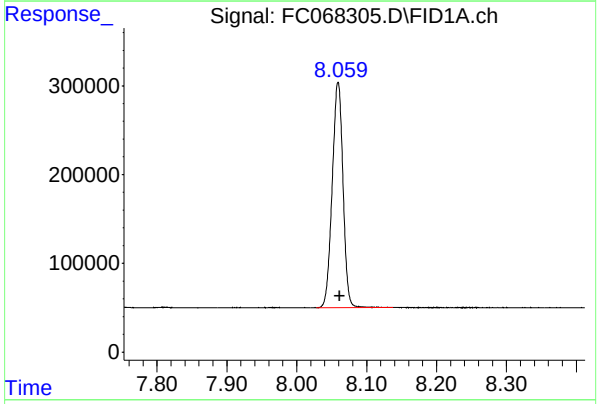
R.T.: 6.270 min
Delta R.T.: -0.003 min
Response: 2826630
Conc: 20.08 ug/ml



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

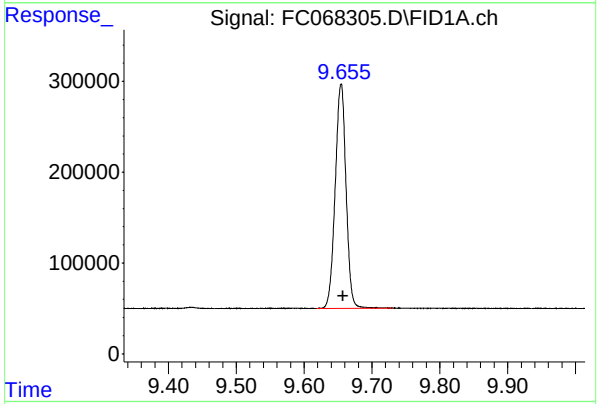
R.T.: 6.881 min
Delta R.T.: -0.003 min
Response: 2922228
Conc: 20.18 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



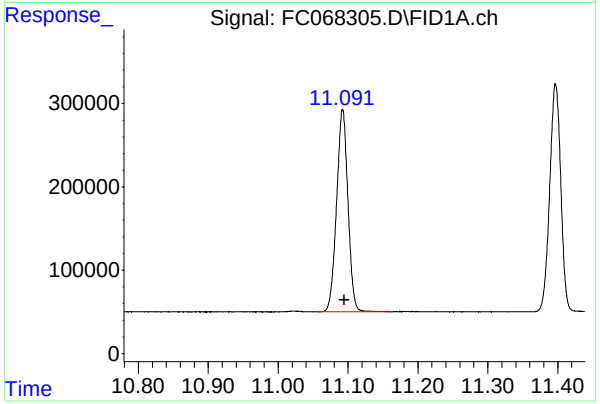
#6 n-Tetradecane (C14)

R.T.: 8.059 min
Delta R.T.: -0.003 min
Response: 2724880
Conc: 19.99 ug/ml



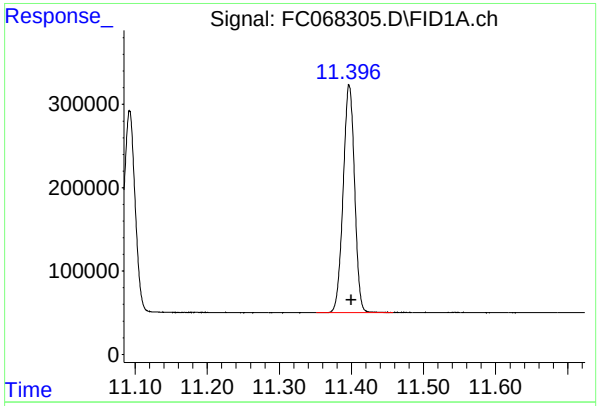
#7 n-Hexadecane (C16)

R.T.: 9.654 min
Delta R.T.: -0.003 min
Response: 2745305
Conc: 20.04 ug/ml



#8 n-Octadecane (C18)

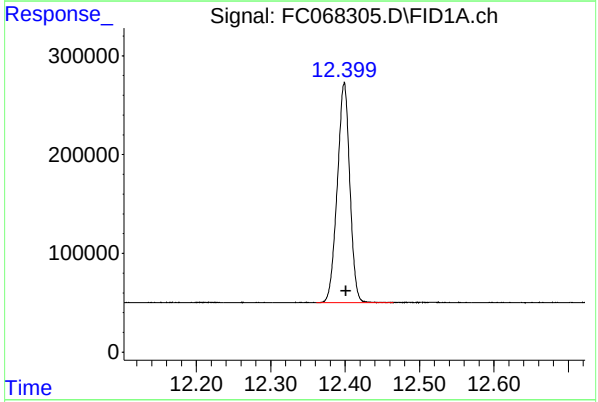
R.T.: 11.092 min
Delta R.T.: -0.002 min
Response: 2735800
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

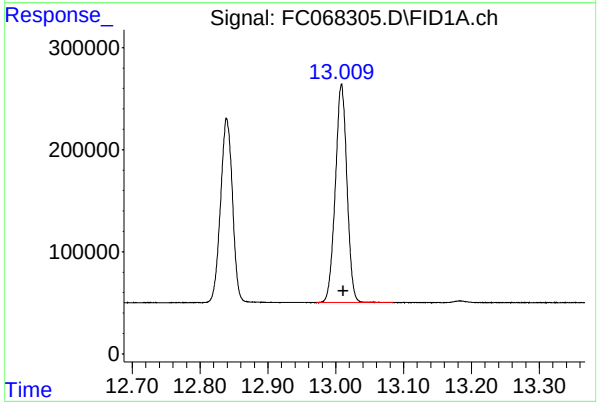
R.T.: 11.397 min
Delta R.T.: -0.003 min
Response: 3012962
Conc: 19.64 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



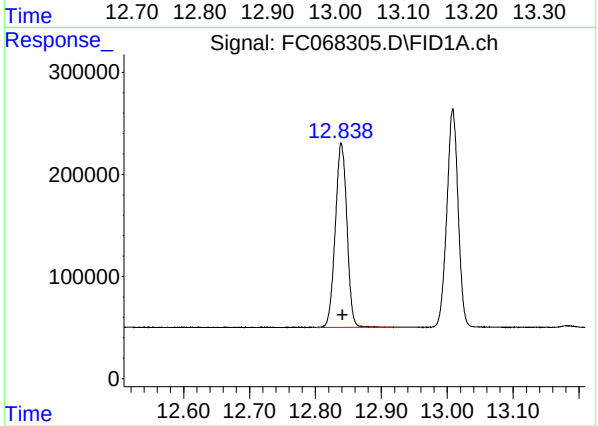
#10 n-Eicosane (C20)

R.T.: 12.399 min
Delta R.T.: -0.002 min
Response: 2602340
Conc: 19.97 ug/ml



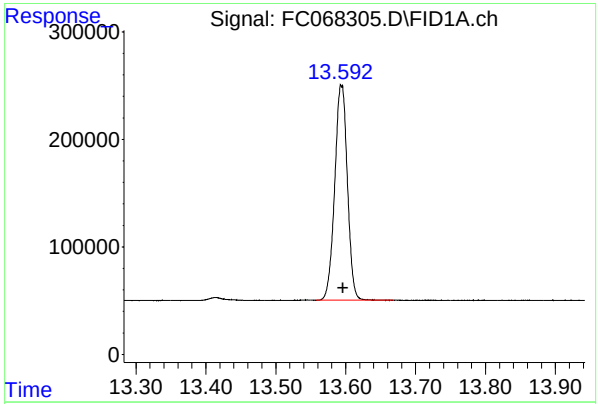
#11 n-Heneicosane (C21)

R.T.: 13.008 min
Delta R.T.: -0.002 min
Response: 2553176
Conc: 19.97 ug/ml



#12 1-chlorooctadecane (SURR)

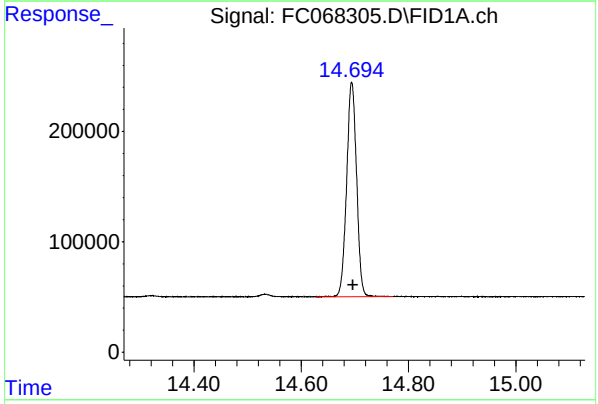
R.T.: 12.839 min
Delta R.T.: -0.002 min
Response: 2209163
Conc: 19.64 ug/ml



#13 n-Docosane (C22)

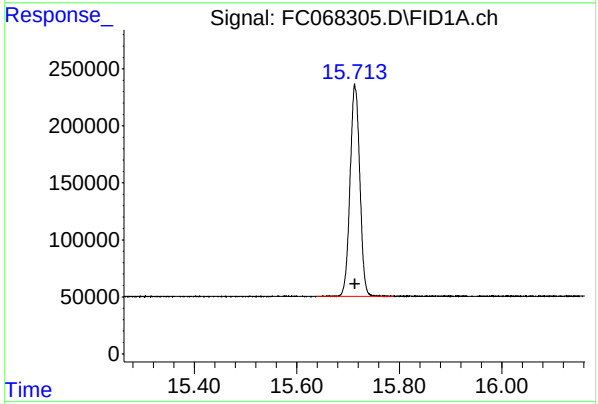
R.T.: 13.594 min
Delta R.T.: -0.002 min
Response: 2520745
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



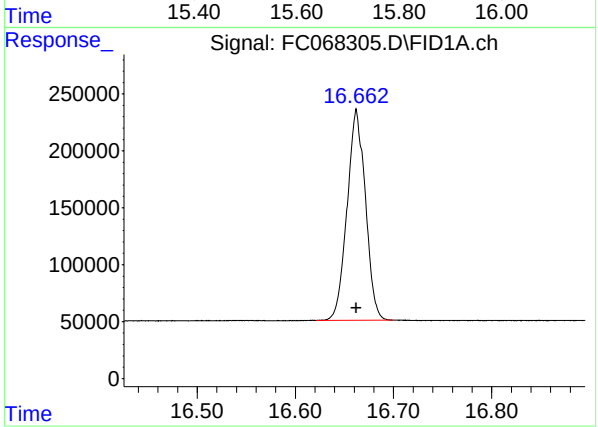
#14 n-Tetracosane (C24)

R.T.: 14.694 min
Delta R.T.: -0.002 min
Response: 2501773
Conc: 20.11 ug/ml



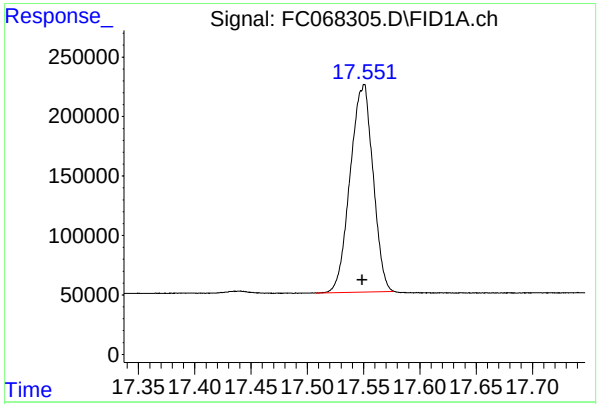
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2450259
Conc: 20.15 ug/ml



#16 n-Octacosane (C28)

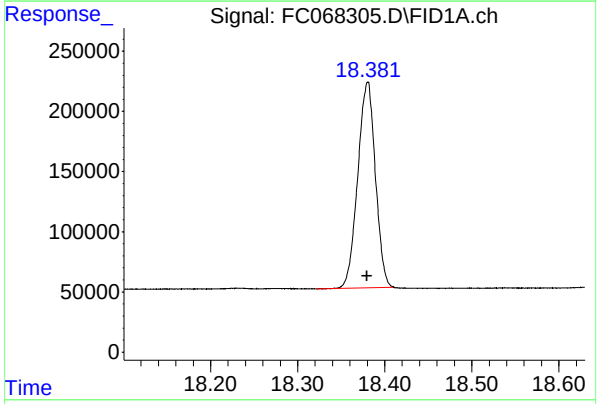
R.T.: 16.662 min
Delta R.T.: 0.000 min
Response: 2402561
Conc: 20.23 ug/ml



#17 n-Tricontane (C30)

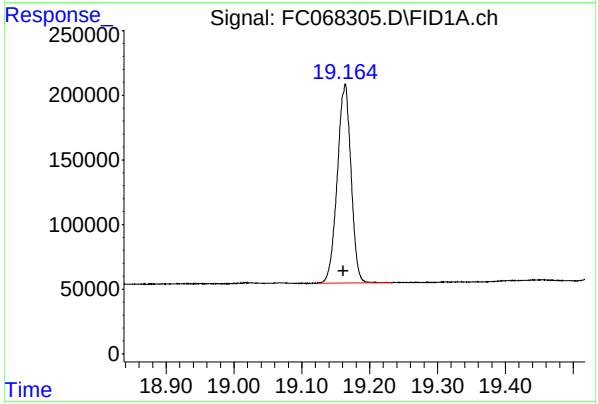
R.T.: 17.549 min
Delta R.T.: 0.000 min
Response: 2463685
Conc: 20.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



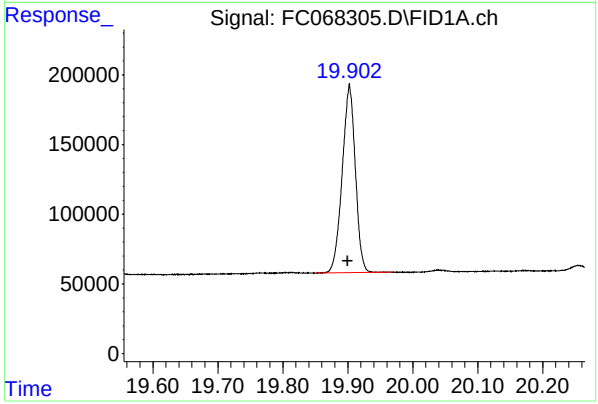
#18 n-Dotriacontane (C32)

R.T.: 18.380 min
Delta R.T.: 0.000 min
Response: 2409233
Conc: 20.76 ug/ml



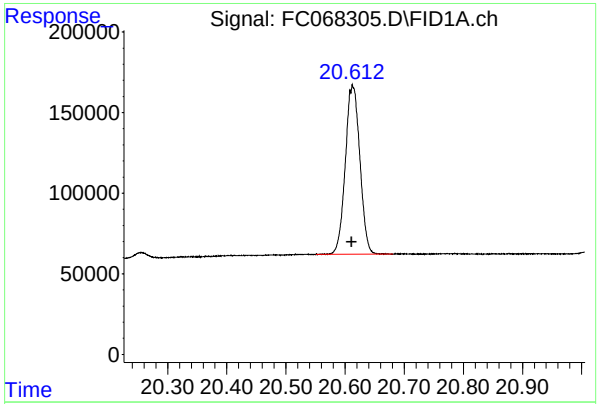
#19 n-Tetratriacontane (C34)

R.T.: 19.163 min
Delta R.T.: 0.002 min
Response: 2161619
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

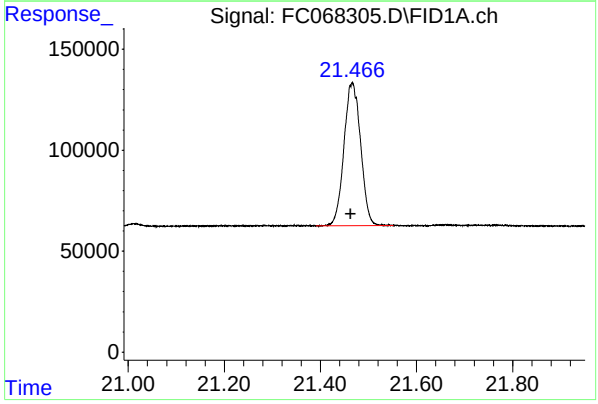
R.T.: 19.902 min
Delta R.T.: 0.002 min
Response: 1892710
Conc: 19.68 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.613 min
Delta R.T.: 0.002 min
Response: 1790381
Conc: 19.92 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.466 min
Delta R.T.: 0.003 min
Response: 1701675
Conc: 19.67 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068305.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 08:35
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 021125.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	3.204	3.174	3.261	BB	341963	2820945	91.59%	5.085%
2	4.261	4.231	4.321	BB	314410	2860467	92.87%	5.156%
3	5.828	5.794	5.908	BB	328391	3080036	100.00%	5.552%
4	6.270	6.238	6.334	BB	280365	2826630	91.77%	5.095%
5	6.881	6.848	6.991	BB	286493	2922228	94.88%	5.268%
6	8.059	8.028	8.138	BB	253840	2724880	88.47%	4.912%
7	9.654	9.618	9.731	BB	247600	2745305	89.13%	4.949%
8	11.092	11.054	11.164	BB	241842	2735800	88.82%	4.932%
9	11.397	11.351	11.458	BB	273378	3012962	97.82%	5.431%
10	12.399	12.361	12.464	BB	221302	2602340	84.49%	4.691%
11	12.839	12.801	12.918	BB	178061	2209163	71.73%	3.982%
12	13.008	12.971	13.084	BB	213349	2553176	82.89%	4.603%
13	13.594	13.558	13.668	BB	200426	2520745	81.84%	4.544%
14	14.694	14.628	14.771	BB	194449	2501773	81.23%	4.510%
15	15.714	15.638	15.788	BB	183663	2450259	79.55%	4.417%
16	16.662	16.598	16.734	BB	181831	2422985	78.67%	4.368%
17	17.549	17.488	17.614	BB	178747	2499967	81.17%	4.507%
18	18.380	18.321	18.438	BB	173472	2437195	79.13%	4.393%
19	19.163	19.121	19.234	BB	154889	2161619	70.18%	3.897%
20	19.902	19.851	19.969	BBA	132849	1892710	61.45%	3.412%
21	20.613	20.551	20.681	BB	104490	1790381	58.13%	3.227%
22	21.466	21.391	21.551	BB	70075	1701675	55.25%	3.068%
			Sum of corrected areas:			55473240		

Aliphatic EPH 021125.M Fri Feb 28 01:07:52 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068305.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 08:35
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: Mar 05 04:43:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	140.677	141.047	E3	-0.3	100	0.00
2	T	n-Decane (C10)	141.671	143.023	E3	-1.0	100	0.00
3	T	A~Naphthalene (C11.7)	153.034	154.002	E3	-0.6	100	0.00
4	T	n-Dodecane (C12)	140.758	141.331	E3	-0.4	100	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	146.111	E3	-0.9	100	0.00
6	T	n-Tetradecane (C14)	136.344	136.244	E3	0.1	100	0.00
7	T	n-Hexadecane (C16)	136.965	137.265	E3	-0.2	100	0.00
8	T	n-Octadecane (C18)	136.758	136.790	E3	-0.0	100	0.00
9	S	ortho-Terphenyl (SURR)	153.444	150.648	E3	1.8	98	0.00
10	T	n-Eicosane (C20)	130.287	130.117	E3	0.1	100	0.00
11	T	n-Heneicosane (C21)	127.847	127.659	E3	0.1	100	0.00
12	S	1-chlorooctadecane (SURR)	112.474	110.458	E3	1.8	98	0.00
13	T	n-Docosane (C22)	126.028	126.037	E3	-0.0	100	0.00
14	T	n-Tetracosane (C24)	124.377	125.089	E3	-0.6	100	0.00
15	T	n-Hexacosane (C26)	121.593	122.513	E3	-0.8	101	0.00
16	T	n-Octacosane (C28)	118.767	120.128	E3	-1.1	101	0.00
17	T	n-Tricontane (C30)	120.366	123.184	E3	-2.3	103	0.00
18	T	n-Dotriacontane (C32)	116.067	120.462	E3	-3.8	104	0.00
19	T	n-Tetratriacontane (C34)	108.059	108.081	E3	-0.0	100	0.00
20	T	n-Hexatriacontane (C36)	96.169	94.636	E3	1.6	99	0.00
21	T	n-Octatriacontane (C38)	89.898	89.519	E3	0.4	99	0.00
22	T	n-Tetracontane (C40)	86.520	85.084	E3	1.7	98	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 : FC022725AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068311.D**						
Aliphatic C9-C12	8524811.000	60.000	3.104	6.370	142080.183	141035.502	-0.741
Aliphatic C12-C16	5481046.000	40.000	6.371	9.754	137026.150	136654.515	-0.272
Aliphatic C16-C21	7930526.000	60.000	9.755	13.108	132175.433	131630.895	-0.414
Aliphatic C21-C28	9943045.000	80.000	13.109	16.762	124288.063	122691.322	-1.301
Aliphatic C28-C40	12574868.000	120.000	16.763	21.566	104790.567	102846.462	-1.890
Aliphatic EPH	44454296.000	360.000	3.104	21.566	123484.156	122175.127	-1.071

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:	27 Feb 2025 13:27
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068311.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.370	8524811.000	60.000	ug/ml
Aliphatic C12-C16	6.371	9.754	5481046.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.108	7930526.000	60.000	ug/ml
Aliphatic C21-C28	13.109	16.762	9943045.000	80.000	ug/ml
Aliphatic C28-C40	16.763	21.566	12574868.000	120.000	ug/ml
Aliphatic EPH	3.104	21.566	44454296.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068311.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 13:27
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: Mar 05 04:44:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	11.397	3033346	19.768 ug/ml
Spiked Amount	50.000		Recovery =	39.54%
12)	S 1-chlorooctadecane (S...	12.840	2221647	19.752 ug/ml
Spiked Amount	50.000		Recovery =	39.50%
	Target Compounds			
1)	T n-Nonane (C9)	3.204	2828328	20.105 ug/ml
2)	T n-Decane (C10)	4.261	2864523	20.219 ug/ml
3)	T A~Naphthalene (C11.7)	5.828	3091717	20.203 ug/ml
4)	T n-Dodecane (C12)	6.270	2831960	20.119 ug/ml
5)	T A~2-methylnaphthalene...	6.880	2921670	20.173 ug/ml
6)	T n-Tetradecane (C14)	8.058	2729412	20.019 ug/ml
7)	T n-Hexadecane (C16)	9.654	2751634	20.090 ug/ml
8)	T n-Octadecane (C18)	11.092	2749117	20.102 ug/ml
10)	T n-Eicosane (C20)	12.398	2618262	20.096 ug/ml
11)	T n-Heneicosane (C21)	13.009	2563147	20.048 ug/ml
13)	T n-Docosane (C22)	13.594	2536870	20.129 ug/ml
14)	T n-Tetracosane (C24)	14.695	2513548	20.209 ug/ml
15)	T n-Hexacosane (C26)	15.714	2468793	20.304 ug/ml
16)	T n-Octacosane (C28)	16.663	2423834	20.408 ug/ml
17)	T n-Tricontane (C30)	17.550	2494006	20.720 ug/ml
18)	T n-Dotriacontane (C32)	18.381	2439083	21.014 ug/ml
19)	T n-Tetratriacontane (C34)	19.164	2196747	20.329 ug/ml
20)	T n-Hexatriacontane (C36)	19.902	1915492	19.918 ug/ml
21)	T n-Octatriacontane (C38)	20.616	1807621	20.108 ug/ml
22)	T n-Tetracontane (C40)	21.467	1721919	19.902 ug/ml

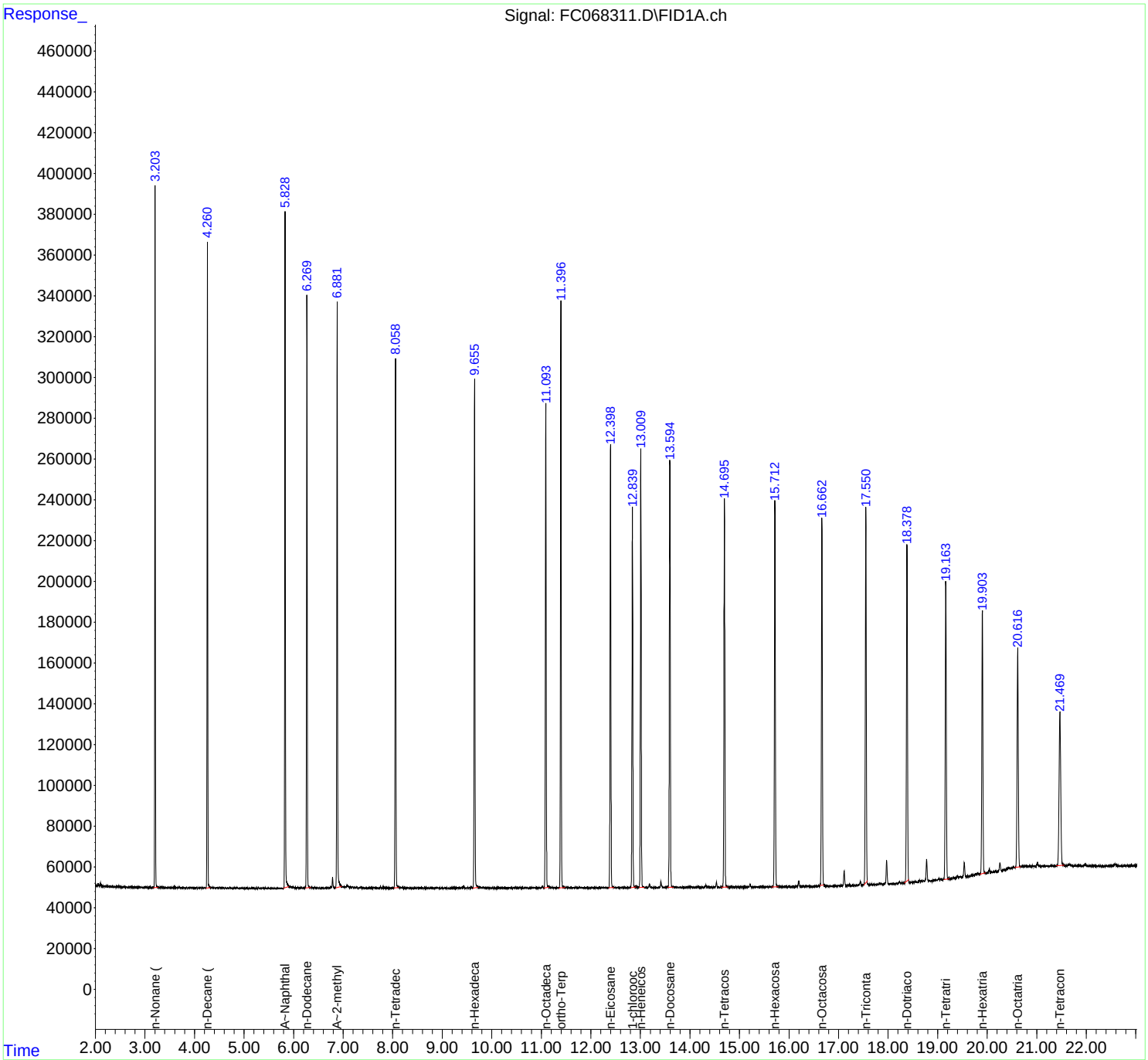
(f)=RT Delta > 1/2 Window (m)=manual int.

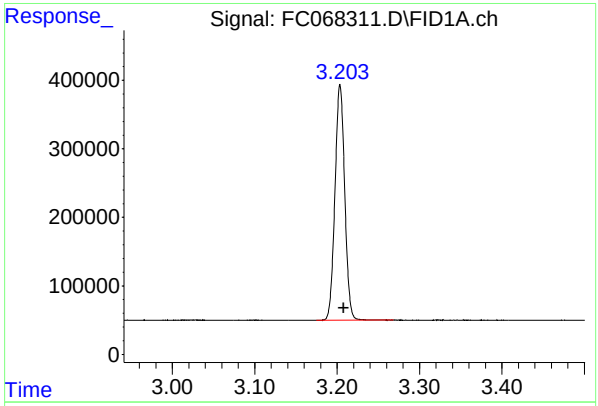
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068311.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 13:27
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 04:44:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

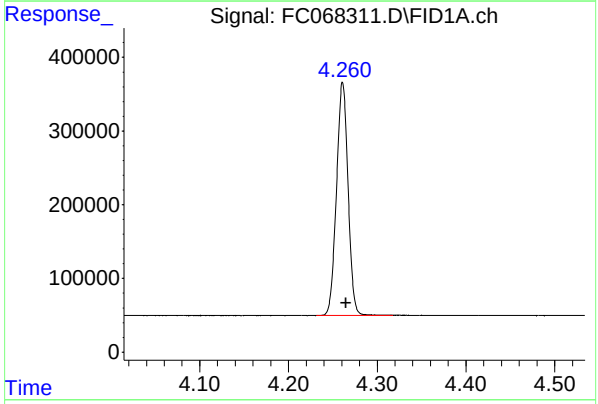




#1 n-Nonane (C9)

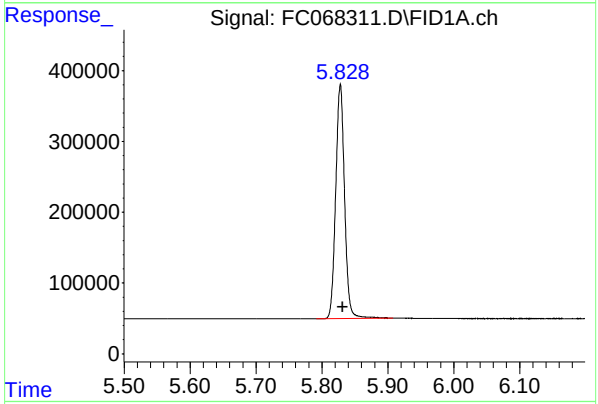
R.T.: 3.204 min
Delta R.T.: -0.004 min
Response: 2828328
Conc: 20.11 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



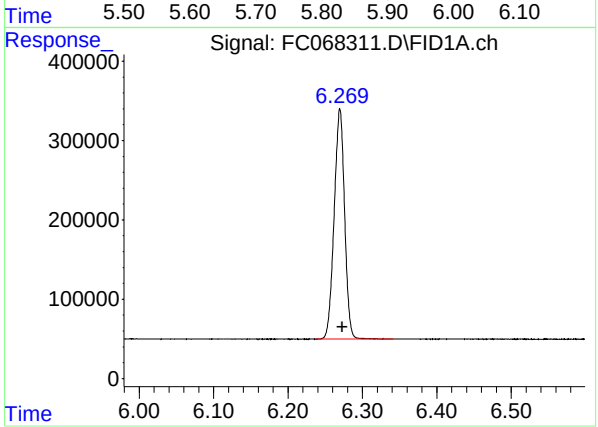
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.004 min
Response: 2864523
Conc: 20.22 ug/ml



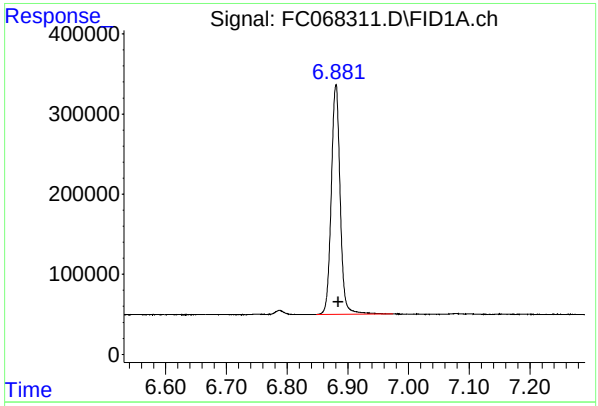
#3 A~Naphthalene (C11.7)

R.T.: 5.828 min
Delta R.T.: -0.004 min
Response: 3091717
Conc: 20.20 ug/ml



#4 n-Dodecane (C12)

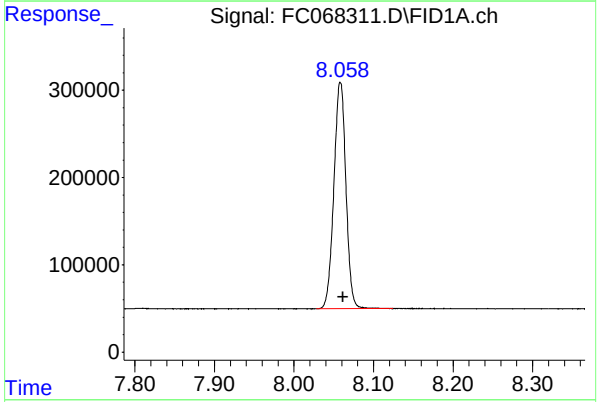
R.T.: 6.270 min
Delta R.T.: -0.003 min
Response: 2831960
Conc: 20.12 ug/ml



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

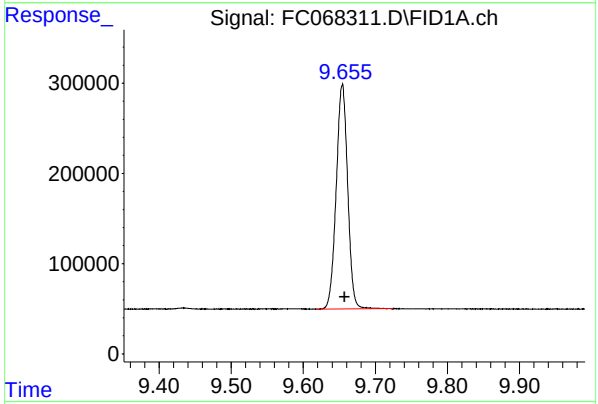
R.T.: 6.880 min
Delta R.T.: -0.004 min
Response: 2921670
Conc: 20.17 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



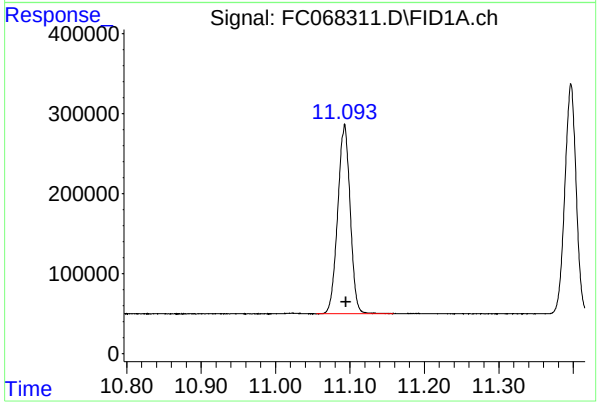
#6 n-Tetradecane (C14)

R.T.: 8.058 min
Delta R.T.: -0.003 min
Response: 2729412
Conc: 20.02 ug/ml



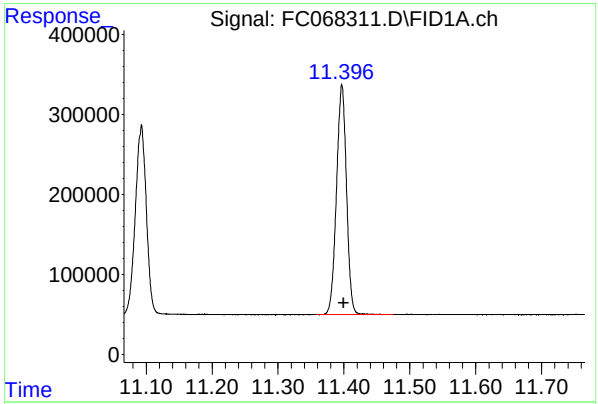
#7 n-Hexadecane (C16)

R.T.: 9.654 min
Delta R.T.: -0.003 min
Response: 2751634
Conc: 20.09 ug/ml



#8 n-Octadecane (C18)

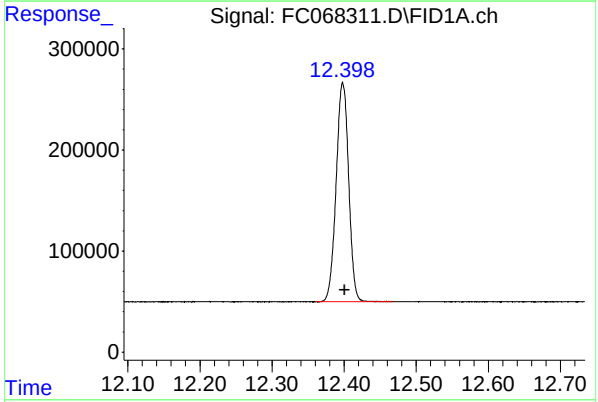
R.T.: 11.092 min
Delta R.T.: -0.002 min
Response: 2749117
Conc: 20.10 ug/ml



#9 ortho-Terphenyl (SURR)

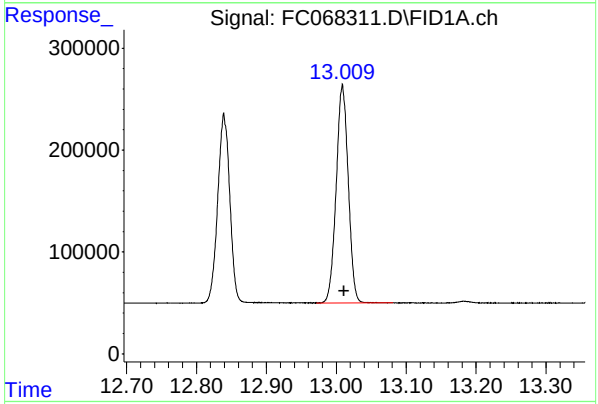
R.T.: 11.397 min
Delta R.T.: -0.003 min
Response: 3033346
Conc: 19.77 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



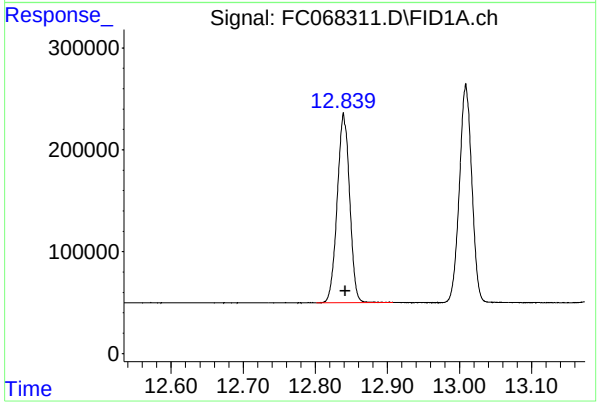
#10 n-Eicosane (C20)

R.T.: 12.398 min
Delta R.T.: -0.003 min
Response: 2618262
Conc: 20.10 ug/ml



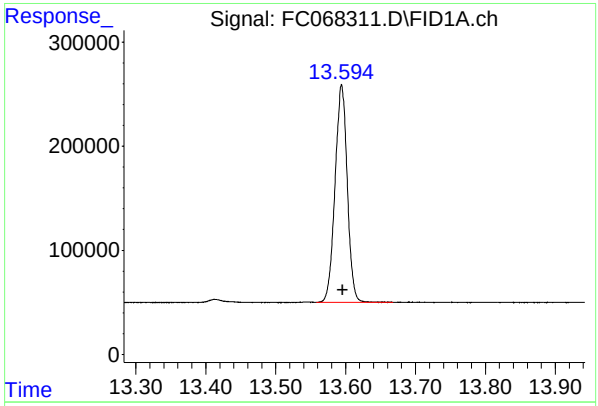
#11 n-Heneicosane (C21)

R.T.: 13.009 min
Delta R.T.: -0.002 min
Response: 2563147
Conc: 20.05 ug/ml



#12 1-chlorooctadecane (SURR)

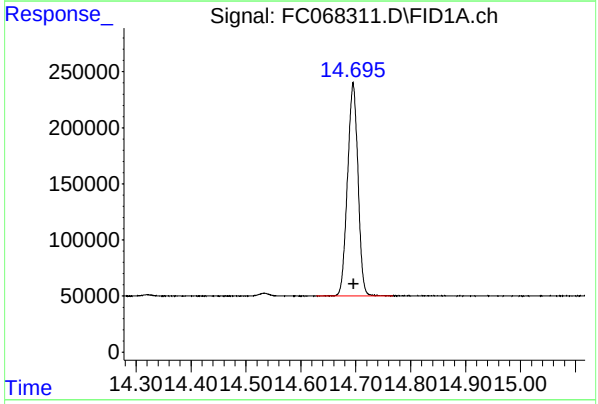
R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 2221647
Conc: 19.75 ug/ml



#13 n-Docosane (C22)

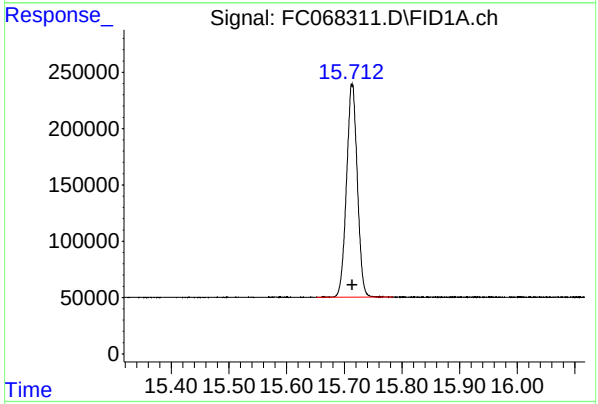
R.T.: 13.594 min
Delta R.T.: -0.002 min
Response: 2536870
Conc: 20.13 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



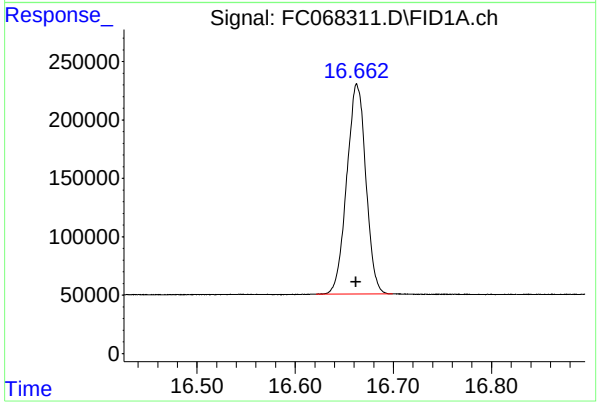
#14 n-Tetracosane (C24)

R.T.: 14.695 min
Delta R.T.: 0.000 min
Response: 2513548
Conc: 20.21 ug/ml



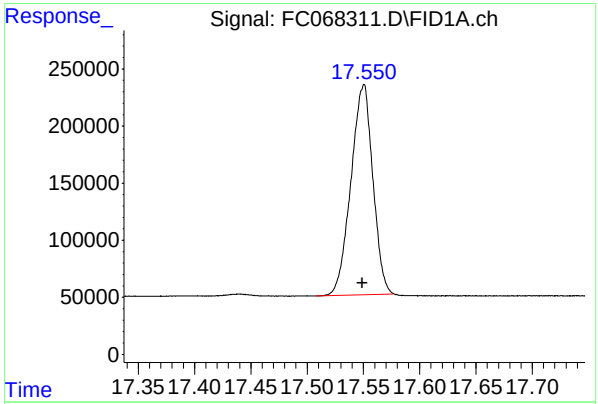
#15 n-Hexacosane (C26)

R.T.: 15.714 min
Delta R.T.: 0.000 min
Response: 2468793
Conc: 20.30 ug/ml



#16 n-Octacosane (C28)

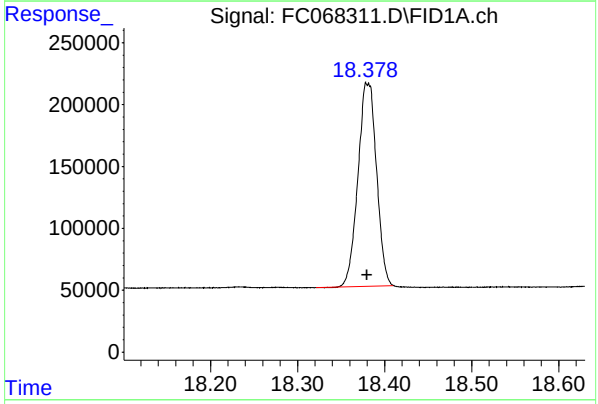
R.T.: 16.663 min
Delta R.T.: 0.001 min
Response: 2423834
Conc: 20.41 ug/ml



#17 n-Tricontane (C30)

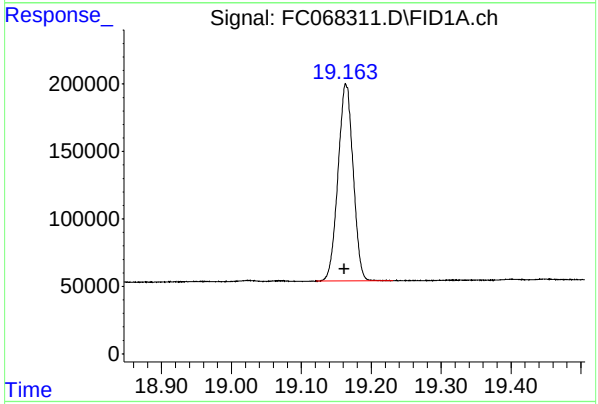
R.T.: 17.550 min
Delta R.T.: 0.000 min
Response: 2494006
Conc: 20.72 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



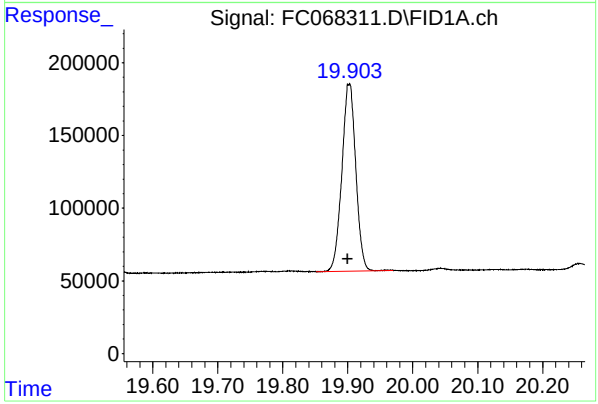
#18 n-Dotriacontane (C32)

R.T.: 18.381 min
Delta R.T.: 0.000 min
Response: 2439083
Conc: 21.01 ug/ml



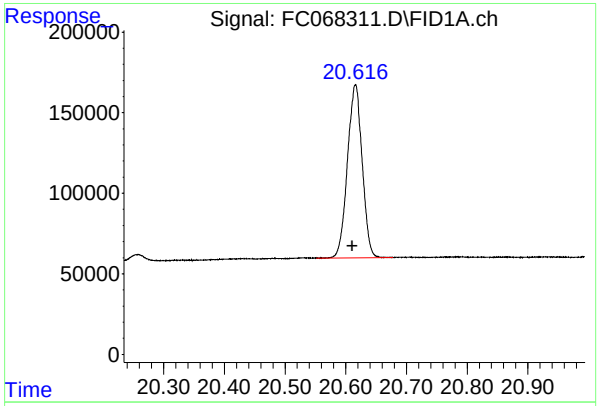
#19 n-Tetratriacontane (C34)

R.T.: 19.164 min
Delta R.T.: 0.003 min
Response: 2196747
Conc: 20.33 ug/ml



#20 n-Hexatriacontane (C36)

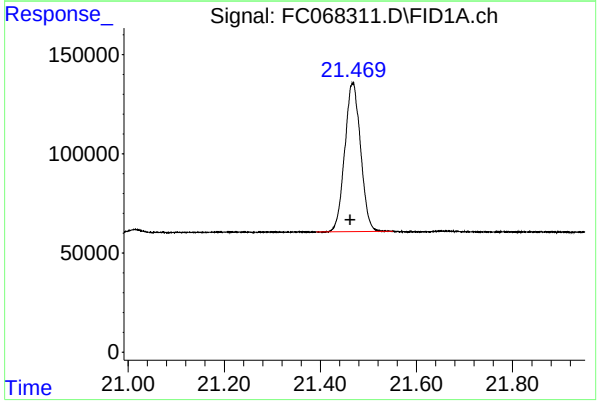
R.T.: 19.902 min
Delta R.T.: 0.002 min
Response: 1915492
Conc: 19.92 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.616 min
Delta R.T.: 0.005 min
Response: 1807621
Conc: 20.11 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.467 min
Delta R.T.: 0.005 min
Response: 1721919
Conc: 19.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068311.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 13:27
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 021125.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	3.204	3.174	3.268	BB	341592	2828328	91.48%	5.066%
2	4.261	4.231	4.318	BB	316509	2864523	92.65%	5.131%
3	5.828	5.791	5.908	BB	330081	3091717	100.00%	5.537%
4	6.270	6.238	6.341	BB	290156	2831960	91.60%	5.072%
5	6.880	6.848	6.974	BB	288456	2921670	94.50%	5.233%
6	8.058	8.028	8.124	BB	260613	2729412	88.28%	4.889%
7	9.654	9.618	9.724	BB	249024	2751634	89.00%	4.928%
8	11.093	11.054	11.158	BB	231690	2749117	88.92%	4.924%
9	11.397	11.358	11.474	BB	288087	3033346	98.11%	5.433%
10	12.398	12.361	12.468	BB	216464	2618262	84.69%	4.689%
11	12.840	12.801	12.908	BB	179831	2221647	71.86%	3.979%
12	13.009	12.971	13.081	BB	212373	2563147	82.90%	4.591%
13	13.594	13.558	13.668	BB	208923	2536870	82.05%	4.544%
14	14.695	14.628	14.768	BB	188394	2513548	81.30%	4.502%
15	15.714	15.651	15.784	BB	189252	2468793	79.85%	4.422%
16	16.663	16.598	16.731	BB	178710	2448815	79.21%	4.386%
17	17.550	17.481	17.618	BB	187679	2537173	82.06%	4.544%
18	18.381	18.308	18.448	BB	164302	2481040	80.25%	4.444%
19	19.164	19.121	19.231	BB	145604	2196747	71.05%	3.935%
20	19.902	19.851	19.969	BBA	129880	1915492	61.96%	3.431%
21	20.616	20.551	20.678	BB	107507	1807621	58.47%	3.238%
22	21.467	21.391	21.551	BB	74833	1721919	55.69%	3.084%
			Sum of corrected areas:			55832780		

Aliphatic EPH 021125.M Fri Feb 28 01:10:06 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068311.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 13:27
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: Mar 05 04:44:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	140.677	141.416	E3	-0.5	100	0.00
2	T	n-Decane (C10)	141.671	143.226	E3	-1.1	100	0.00
3	T	A~Naphthalene (C11.7)	153.034	154.586	E3	-1.0	100	0.00
4	T	n-Dodecane (C12)	140.758	141.598	E3	-0.6	100	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	146.084	E3	-0.9	100	0.00
6	T	n-Tetradecane (C14)	136.344	136.471	E3	-0.1	100	0.00
7	T	n-Hexadecane (C16)	136.965	137.582	E3	-0.5	100	0.00
8	T	n-Octadecane (C18)	136.758	137.456	E3	-0.5	100	0.00
9	S	ortho-Terphenyl (SURR)	153.444	151.667	E3	1.2	99	0.00
10	T	n-Eicosane (C20)	130.287	130.913	E3	-0.5	100	0.00
11	T	n-Heneicosane (C21)	127.847	128.157	E3	-0.2	100	0.00
12	S	1-chlorooctadecane (SURR)	112.474	111.082	E3	1.2	98	0.00
13	T	n-Docosane (C22)	126.028	126.843	E3	-0.6	100	0.00
14	T	n-Tetracosane (C24)	124.377	125.677	E3	-1.0	101	0.00
15	T	n-Hexacosane (C26)	121.593	123.440	E3	-1.5	101	0.00
16	T	n-Octacosane (C28)	118.767	121.192	E3	-2.0	102	0.00
17	T	n-Tricontane (C30)	120.366	124.700	E3	-3.6	104	0.00
18	T	n-Dotriacontane (C32)	116.067	121.954	E3	-5.1	106	0.00
19	T	n-Tetratriacontane (C34)	108.059	109.837	E3	-1.6	102	0.00
20	T	n-Hexatriacontane (C36)	96.169	95.775	E3	0.4	100	0.00
21	T	n-Octatriacontane (C38)	89.898	90.381	E3	-0.5	100	0.00
22	T	n-Tetracontane (C40)	86.520	86.096	E3	0.5	99	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 : FC022725AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068318.D**						
Aliphatic C9-C12	8436284.000	60.000	3.104	6.370	140604.733	141035.502	0.305
Aliphatic C12-C16	5417400.000	40.000	6.371	9.754	135435.000	136654.515	0.892
Aliphatic C16-C21	7834817.000	60.000	9.755	13.108	130580.283	131630.895	0.798
Aliphatic C21-C28	9866523.000	80.000	13.109	16.762	123331.538	122691.322	-0.522
Aliphatic C28-C40	12696532.000	120.000	16.763	21.566	105804.433	102846.462	-2.876
Aliphatic EPH	44251556.000	360.000	3.104	21.566	122920.989	122175.127	-0.610

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:	27 Feb 2025 17:45
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068318.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.370	8436284.000	60.000	ug/ml
Aliphatic C12-C16	6.371	9.754	5417400.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.108	7834817.000	60.000	ug/ml
Aliphatic C21-C28	13.109	16.762	9866523.000	80.000	ug/ml
Aliphatic C28-C40	16.763	21.566	12696532.000	120.000	ug/ml
Aliphatic EPH	3.104	21.566	44251556.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068318.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:45
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: Mar 05 04:45:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	11.397	2998310	19.540 ug/ml
Spiked Amount	50.000		Recovery =	39.08%
12) S	1-chlorooctadecane (S...	12.839	2199645	19.557 ug/ml
Spiked Amount	50.000		Recovery =	39.11%
	Target Compounds			
1) T	n-Nonane (C9)	3.204	2799079	19.897 ug/ml
2) T	n-Decane (C10)	4.261	2837196	20.027 ug/ml
3) T	A~Naphthalene (C11.7)	5.828	3054629	19.960 ug/ml
4) T	n-Dodecane (C12)	6.270	2800009	19.892 ug/ml
5) T	A~2-methylnaphthalene...	6.880	2884281	19.915 ug/ml
6) T	n-Tetradecane (C14)	8.058	2698892	19.795 ug/ml
7) T	n-Hexadecane (C16)	9.654	2718508	19.848 ug/ml
8) T	n-Octadecane (C18)	11.092	2713358	19.841 ug/ml
10) T	n-Eicosane (C20)	12.399	2584016	19.833 ug/ml
11) T	n-Heneicosane (C21)	13.009	2537443	19.847 ug/ml
13) T	n-Docosane (C22)	13.594	2507247	19.894 ug/ml
14) T	n-Tetracosane (C24)	14.695	2490334	20.022 ug/ml
15) T	n-Hexacosane (C26)	15.713	2448205	20.134 ug/ml
16) T	n-Octacosane (C28)	16.663	2420737	20.382 ug/ml
17) T	n-Tricontane (C30)	17.549	2520575	20.941 ug/ml
18) T	n-Dotriacontane (C32)	18.380	2479162	21.360 ug/ml
19) T	n-Tetratriacontane (C34)	19.163	2226154	20.601 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	1928913	20.058 ug/ml
21) T	n-Octatriacontane (C38)	20.615	1817481	20.217 ug/ml
22) T	n-Tetracontane (C40)	21.469	1724247	19.929 ug/ml

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

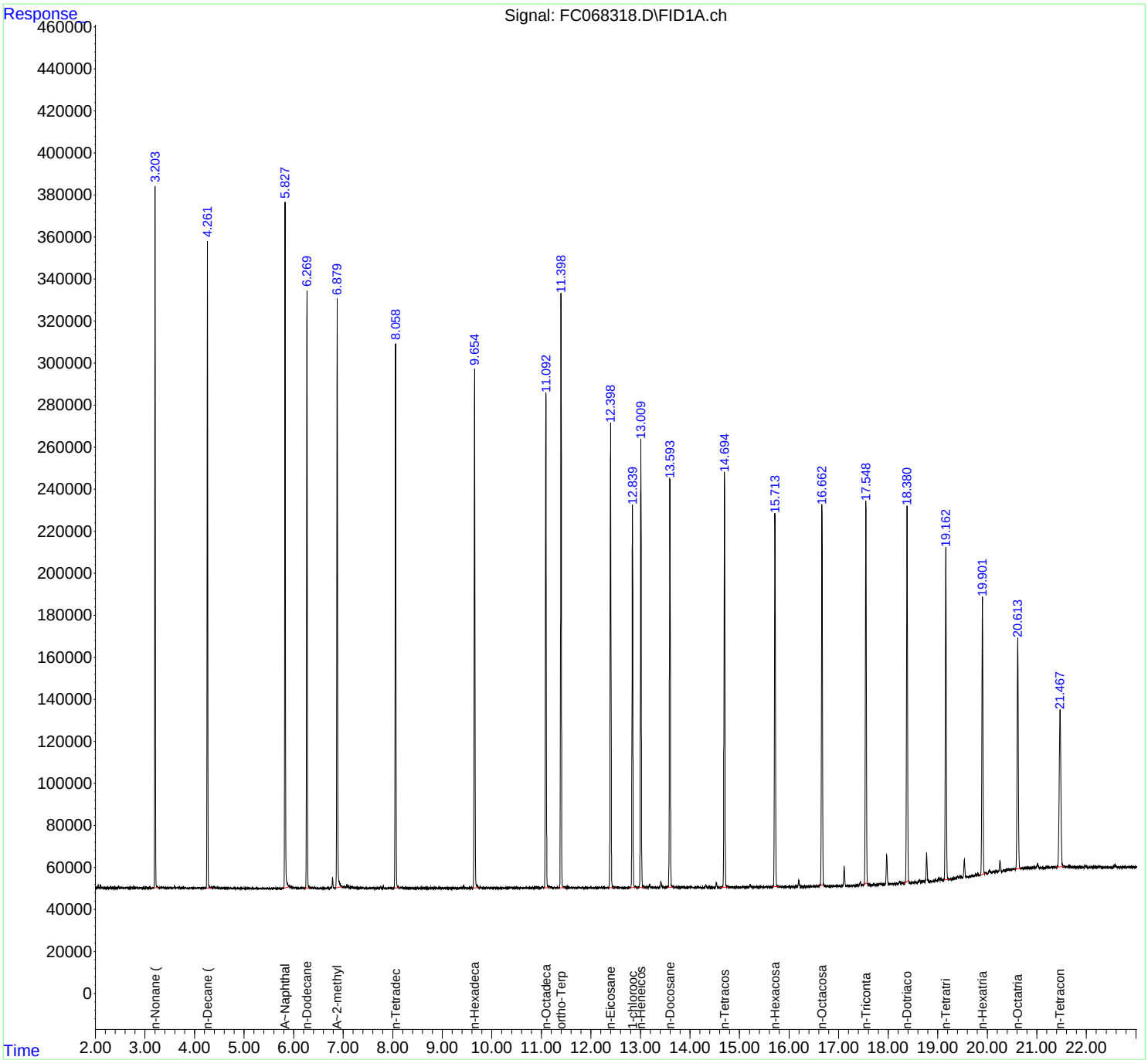
Quantitation Report (QT Reviewed)

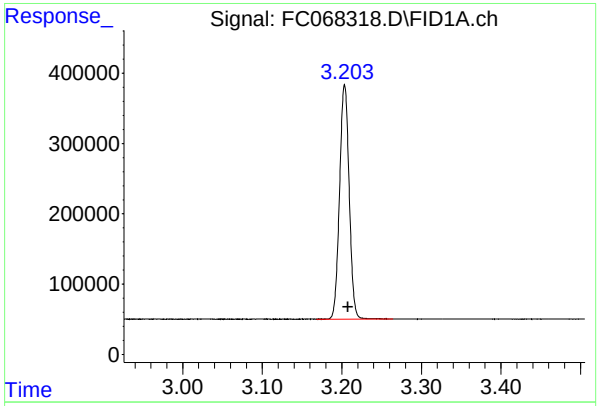
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068318.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:45
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 04:45:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

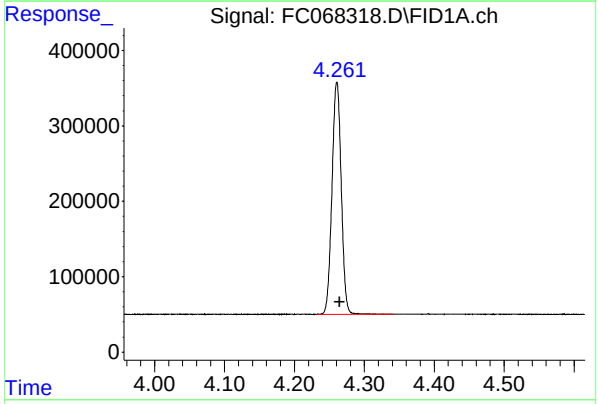




#1 n-Nonane (C9)

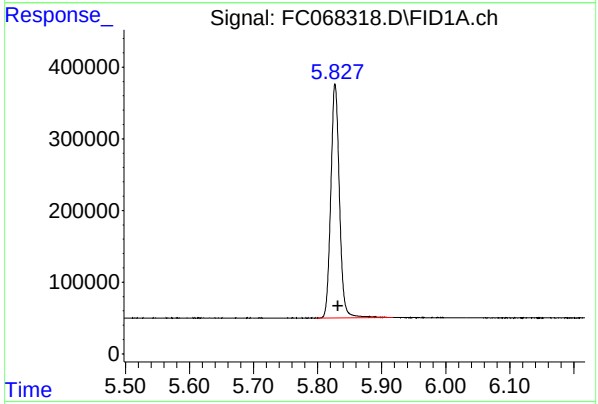
R.T.: 3.204 min
Delta R.T.: -0.004 min
Response: 2799079
Conc: 19.90 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



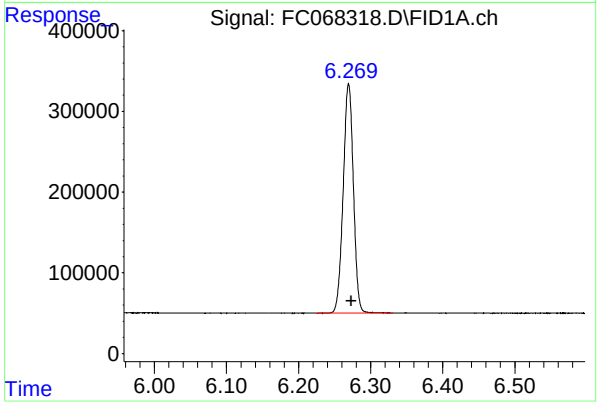
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.004 min
Response: 2837196
Conc: 20.03 ug/ml



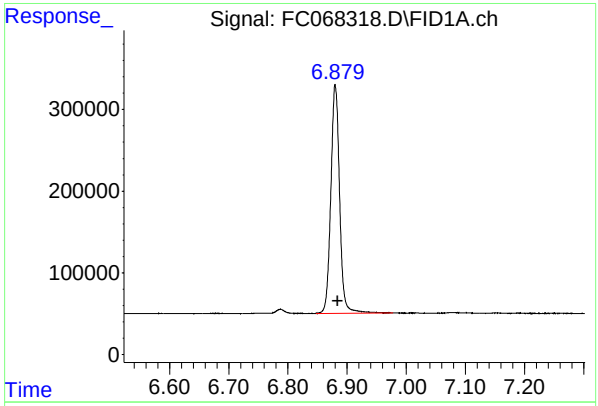
#3 A~Naphthalene (C11.7)

R.T.: 5.828 min
Delta R.T.: -0.004 min
Response: 3054629
Conc: 19.96 ug/ml



#4 n-Dodecane (C12)

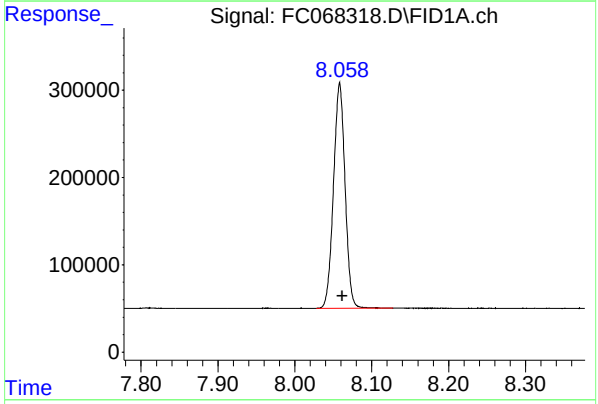
R.T.: 6.270 min
Delta R.T.: -0.004 min
Response: 2800009
Conc: 19.89 ug/ml



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

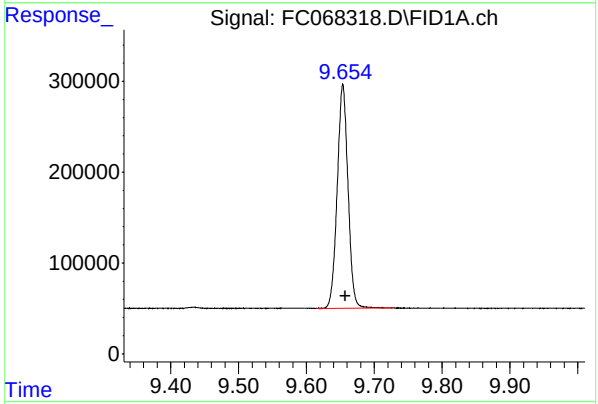
R.T.: 6.880 min
Delta R.T.: -0.004 min
Response: 2884281
Conc: 19.92 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



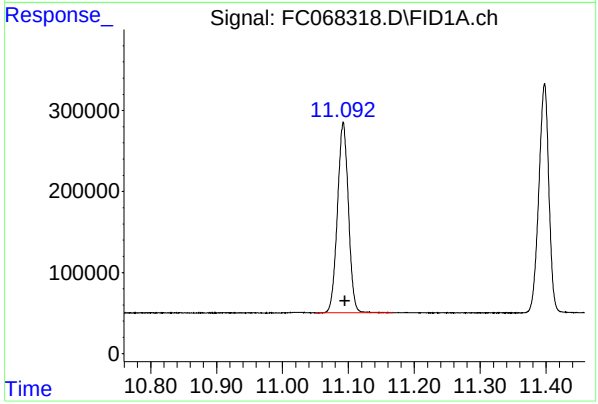
#6 n-Tetradecane (C14)

R.T.: 8.058 min
Delta R.T.: -0.003 min
Response: 2698892
Conc: 19.79 ug/ml



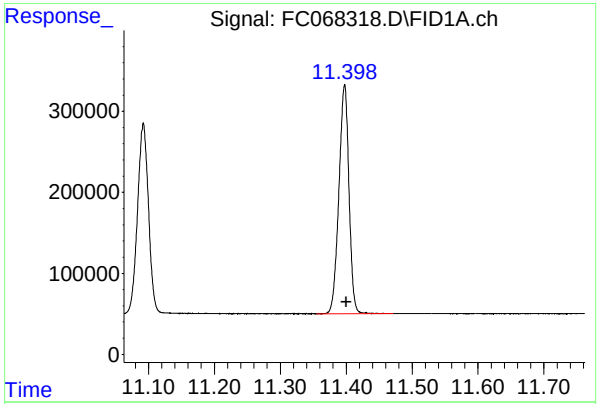
#7 n-Hexadecane (C16)

R.T.: 9.654 min
Delta R.T.: -0.004 min
Response: 2718508
Conc: 19.85 ug/ml



#8 n-Octadecane (C18)

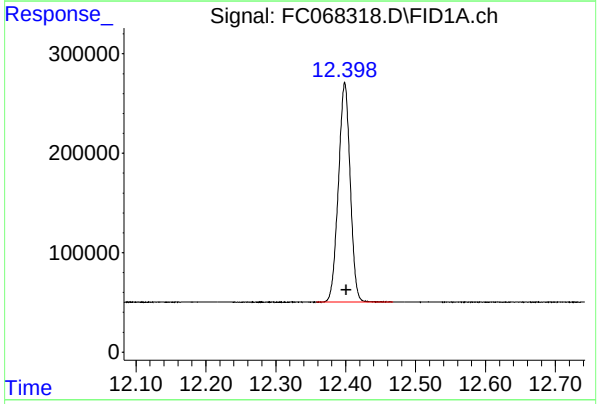
R.T.: 11.092 min
Delta R.T.: -0.002 min
Response: 2713358
Conc: 19.84 ug/ml



#9 ortho-Terphenyl (SURR)

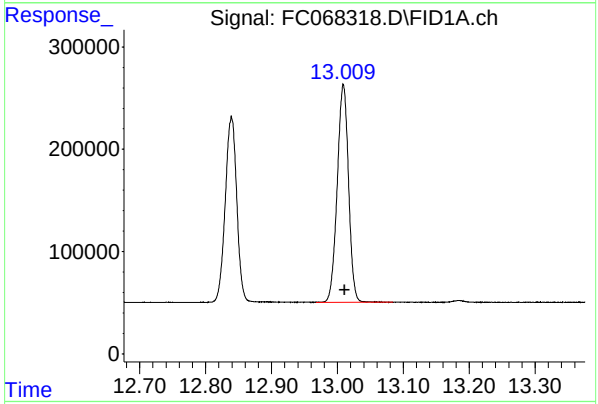
R.T.: 11.397 min
Delta R.T.: -0.002 min
Response: 2998310
Conc: 19.54 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



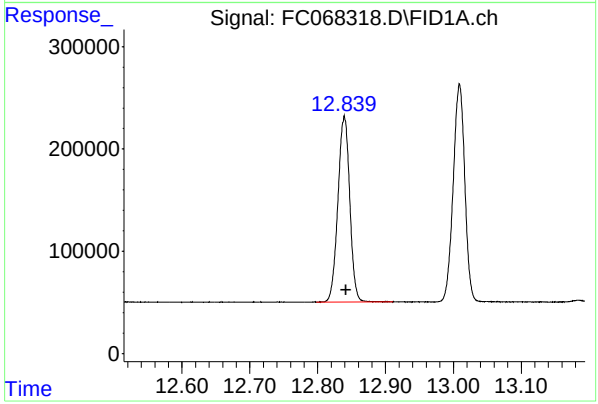
#10 n-Eicosane (C20)

R.T.: 12.399 min
Delta R.T.: -0.002 min
Response: 2584016
Conc: 19.83 ug/ml



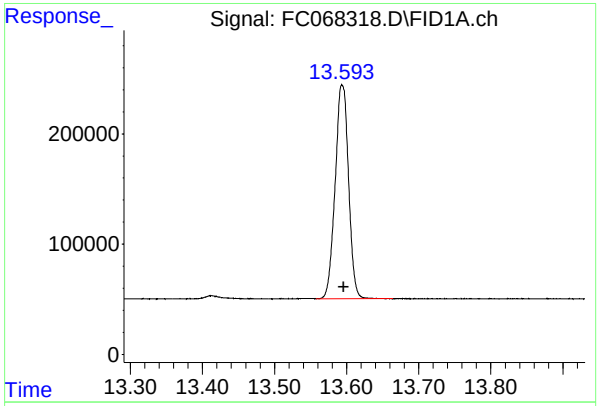
#11 n-Heneicosane (C21)

R.T.: 13.009 min
Delta R.T.: -0.002 min
Response: 2537443
Conc: 19.85 ug/ml



#12 1-chlorooctadecane (SURR)

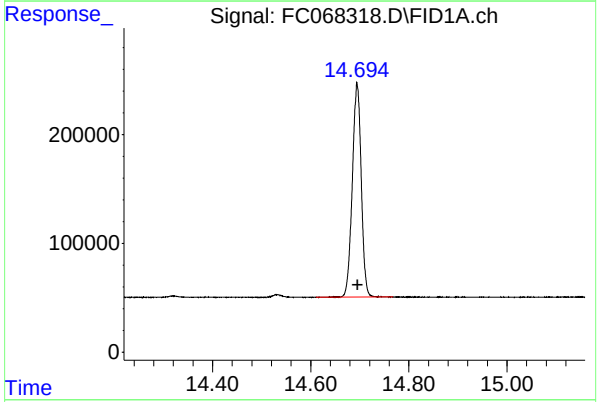
R.T.: 12.839 min
Delta R.T.: -0.002 min
Response: 2199645
Conc: 19.56 ug/ml



#13 n-Docosane (C22)

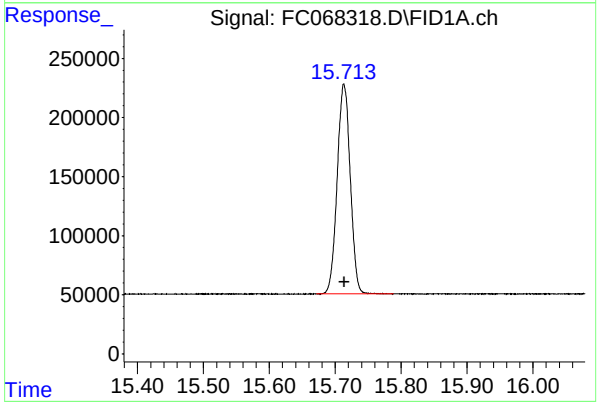
R.T.: 13.594 min
Delta R.T.: -0.002 min
Response: 2507247
Conc: 19.89 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



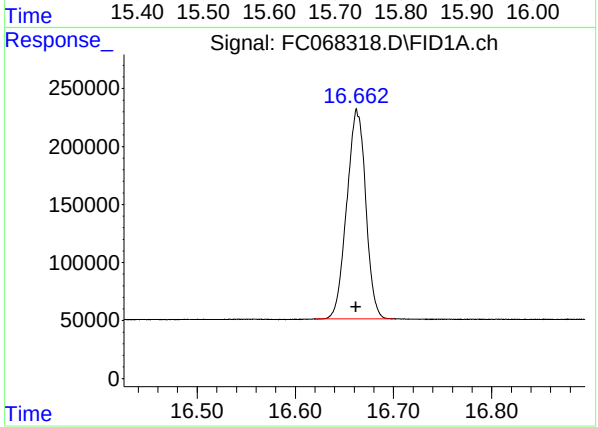
#14 n-Tetracosane (C24)

R.T.: 14.695 min
Delta R.T.: -0.001 min
Response: 2490334
Conc: 20.02 ug/ml



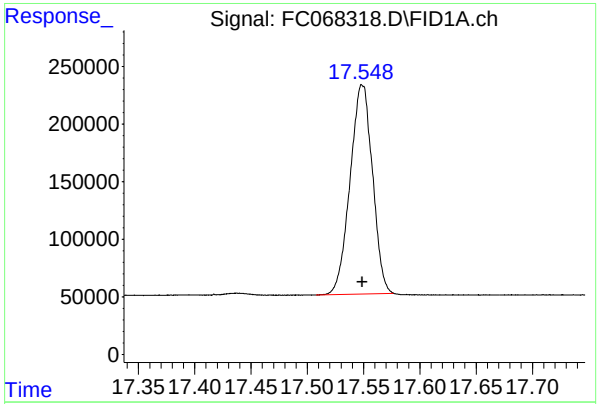
#15 n-Hexacosane (C26)

R.T.: 15.713 min
Delta R.T.: 0.000 min
Response: 2448205
Conc: 20.13 ug/ml



#16 n-Octacosane (C28)

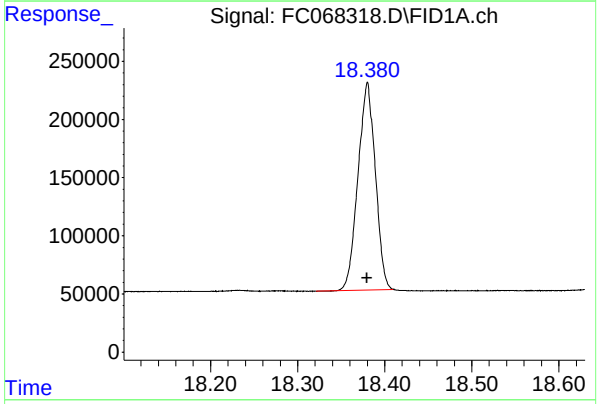
R.T.: 16.663 min
Delta R.T.: 0.000 min
Response: 2420737
Conc: 20.38 ug/ml



#17 n-Tricontane (C30)

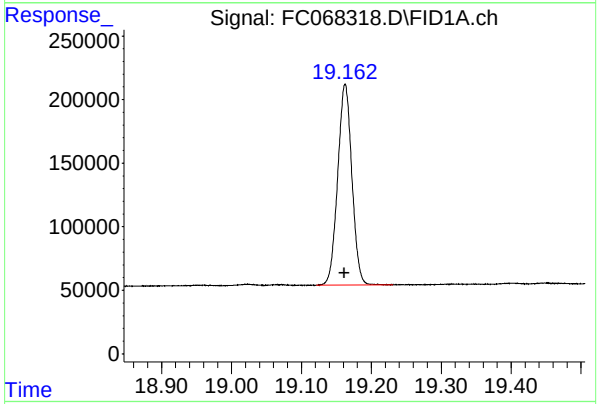
R.T.: 17.549 min
Delta R.T.: 0.000 min
Response: 2520575
Conc: 20.94 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



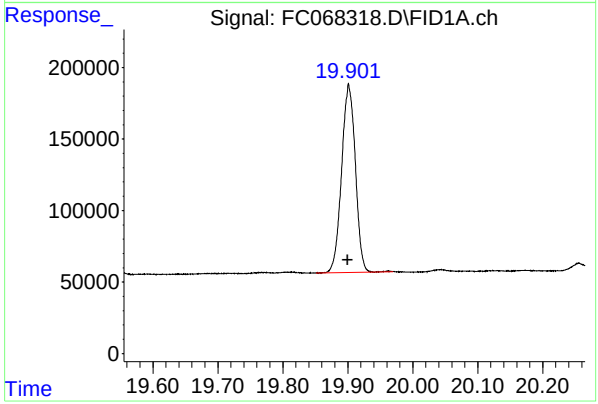
#18 n-Dotriacontane (C32)

R.T.: 18.380 min
Delta R.T.: 0.000 min
Response: 2479162
Conc: 21.36 ug/ml



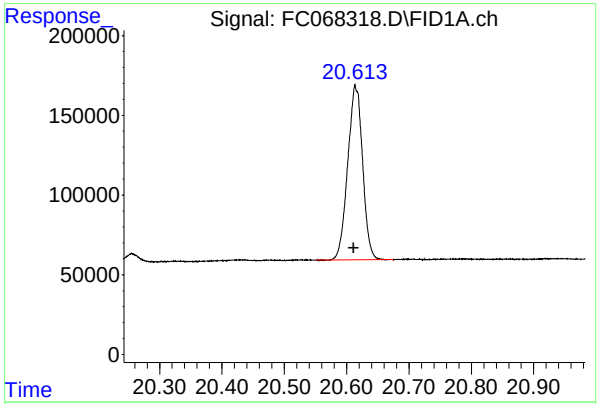
#19 n-Tetratriacontane (C34)

R.T.: 19.163 min
Delta R.T.: 0.001 min
Response: 2226154
Conc: 20.60 ug/ml



#20 n-Hexatriacontane (C36)

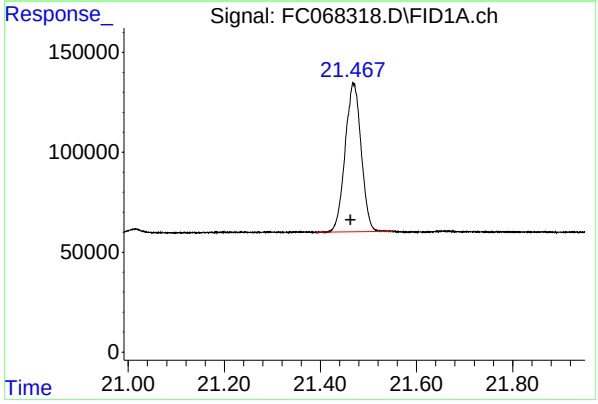
R.T.: 19.902 min
Delta R.T.: 0.001 min
Response: 1928913
Conc: 20.06 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.615 min
Delta R.T.: 0.004 min
Response: 1817481
Conc: 20.22 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.469 min
Delta R.T.: 0.006 min
Response: 1724247
Conc: 19.93 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068318.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:45
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 021125.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	3.204	3.168	3.264	BB	333557	2799079	91.63%	5.044%
2	4.261	4.231	4.341	BB	308500	2837196	92.88%	5.112%
3	5.828	5.798	5.918	BB	325941	3054629	100.00%	5.504%
4	6.270	6.224	6.331	BB	283493	2800009	91.66%	5.045%
5	6.880	6.848	6.978	BB	278159	2884281	94.42%	5.197%
6	8.058	8.028	8.128	BB	256350	2698892	88.35%	4.863%
7	9.654	9.614	9.728	BB	245999	2718508	89.00%	4.898%
8	11.092	11.051	11.168	BB	233055	2713358	88.83%	4.889%
9	11.397	11.354	11.471	BB	283738	2998310	98.16%	5.402%
10	12.399	12.358	12.468	BB	219323	2584016	84.59%	4.656%
11	12.839	12.798	12.911	BB	180327	2199645	72.01%	3.963%
12	13.009	12.968	13.084	BB	211236	2537443	83.07%	4.572%
13	13.594	13.558	13.664	BB	193882	2507247	82.08%	4.518%
14	14.695	14.611	14.768	BB	195969	2490334	81.53%	4.487%
15	15.713	15.671	15.788	BB	176630	2448205	80.15%	4.411%
16	16.663	16.598	16.738	BB	178217	2444014	80.01%	4.404%
17	17.549	17.494	17.604	BB	183524	2555869	83.67%	4.605%
18	18.380	18.194	18.448	BB	178479	2530866	82.85%	4.560%
19	19.163	19.121	19.231	BB	157957	2226154	72.88%	4.011%
20	19.902	19.851	19.969	BBA	130666	1928913	63.15%	3.476%
21	20.615	20.551	20.674	BB	108793	1817481	59.50%	3.275%
22	21.469	21.391	21.551	BB	74547	1724247	56.45%	3.107%
			Sum of corrected areas:			55498695		

Aliphatic EPH 021125.M Fri Feb 28 01:11:58 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068318.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:45
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: Mar 05 04:45:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	140.677	139.954	E3	0.5	99	0.00
2	T	n-Decane (C10)	141.671	141.860	E3	-0.1	99	0.00
3	T	A~Naphthalene (C11.7)	153.034	152.731	E3	0.2	99	0.00
4	T	n-Dodecane (C12)	140.758	140.000	E3	0.5	99	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	144.214	E3	0.4	98	0.00
6	T	n-Tetradecane (C14)	136.344	134.945	E3	1.0	99	0.00
7	T	n-Hexadecane (C16)	136.965	135.925	E3	0.8	99	0.00
8	T	n-Octadecane (C18)	136.758	135.668	E3	0.8	99	0.00
9	S	ortho-Terphenyl (SURR)	153.444	149.915	E3	2.3	98	0.00
10	T	n-Eicosane (C20)	130.287	129.201	E3	0.8	99	0.00
11	T	n-Heneicosane (C21)	127.847	126.872	E3	0.8	99	0.00
12	S	1-chlorooctadecane (SURR)	112.474	109.982	E3	2.2	97	0.00
13	T	n-Docosane (C22)	126.028	125.362	E3	0.5	99	0.00
14	T	n-Tetracosane (C24)	124.377	124.517	E3	-0.1	100	0.00
15	T	n-Hexacosane (C26)	121.593	122.410	E3	-0.7	100	0.00
16	T	n-Octacosane (C28)	118.767	121.037	E3	-1.9	102	0.00
17	T	n-Tricontane (C30)	120.366	126.029	E3	-4.7	105	0.00
18	T	n-Dotriacontane (C32)	116.067	123.958	E3	-6.8	107	0.00
19	T	n-Tetratriacontane (C34)	108.059	111.308	E3	-3.0	103	0.00
20	T	n-Hexatriacontane (C36)	96.169	96.446	E3	-0.3	100	0.00
21	T	n-Octatriacontane (C38)	89.898	90.874	E3	-1.1	101	0.00
22	T	n-Tetracontane (C40)	86.520	86.212	E3	0.4	99	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 : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068321.D**						
Aliphatic C9-C12	8795568.000	60.000	3.104	6.369	146592.800	141035.502	-3.940
Aliphatic C12-C16	5630378.000	40.000	6.370	9.754	140759.450	136654.515	-3.004
Aliphatic C16-C21	8123361.000	60.000	9.755	13.107	135389.350	131630.895	-2.855
Aliphatic C21-C28	10221769.000	80.000	13.108	16.761	127772.113	122691.322	-4.141
Aliphatic C28-C40	13145019.000	120.000	16.762	21.565	109541.825	102846.462	-6.510
Aliphatic EPH	45916095.000	360.000	3.104	21.565	127544.708	122175.127	-4.395

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068321.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8795568.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5630378.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	8123361.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	10221769.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13145019.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	45916095.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
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: Mar 05 05:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	11.396	3120216	20.335 ug/ml
	Spiked Amount 50.000		Recovery = 40.67%	
12)	S 1-chlorooctadecane (S...	12.838	2266768	20.154 ug/ml
	Spiked Amount 50.000		Recovery = 40.31%	
	Target Compounds			
1)	T n-Nonane (C9)	3.204	2921206	20.765 ug/ml
2)	T n-Decane (C10)	4.261	2957953	20.879 ug/ml
3)	T A~Naphthalene (C11.7)	5.828	3188598	20.836 ug/ml
4)	T n-Dodecane (C12)	6.269	2916409	20.719 ug/ml
5)	T A~2-methylnaphthalene...	6.880	2996735	20.692 ug/ml
6)	T n-Tetradecane (C14)	8.058	2804182	20.567 ug/ml
7)	T n-Hexadecane (C16)	9.654	2826196	20.634 ug/ml
8)	T n-Octadecane (C18)	11.092	2816962	20.598 ug/ml
10)	T n-Eicosane (C20)	12.398	2680291	20.572 ug/ml
11)	T n-Heneicosane (C21)	13.007	2626108	20.541 ug/ml
13)	T n-Docosane (C22)	13.593	2593669	20.580 ug/ml
14)	T n-Tetracosane (C24)	14.694	2570552	20.667 ug/ml
15)	T n-Hexacosane (C26)	15.712	2540397	20.893 ug/ml
16)	T n-Octacosane (C28)	16.661	2517151	21.194 ug/ml
17)	T n-Tricontane (C30)	17.547	2631751	21.865 ug/ml
18)	T n-Dotriacontane (C32)	18.379	2592060	22.332 ug/ml
19)	T n-Tetratriacontane (C34)	19.161	2321702	21.486 ug/ml
20)	T n-Hexatriacontane (C36)	19.900	2007468	20.874 ug/ml
21)	T n-Octatriacontane (C38)	20.612	1863761	20.732 ug/ml
22)	T n-Tetracontane (C40)	21.465	1728277	19.975 ug/ml

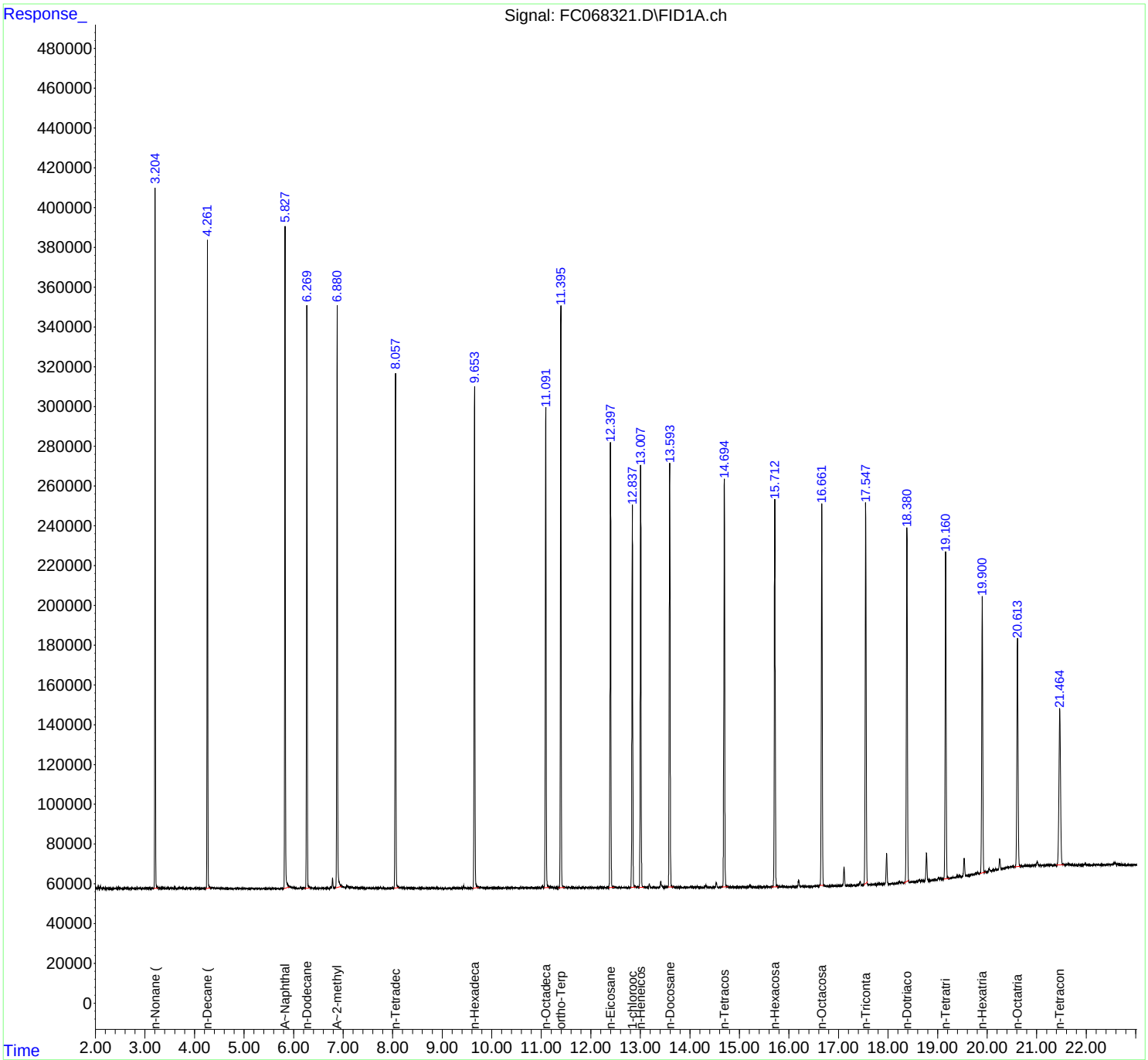
(f)=RT Delta > 1/2 Window (m)=manual int.

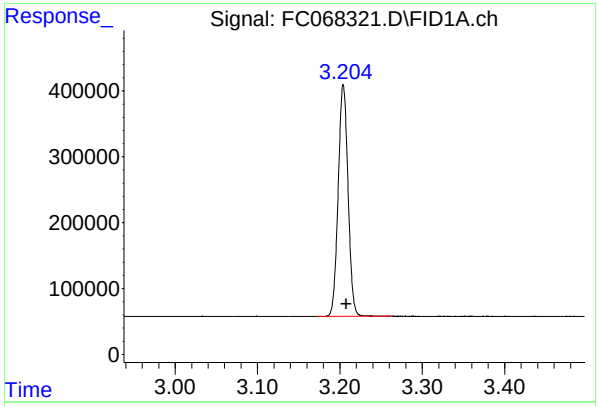
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

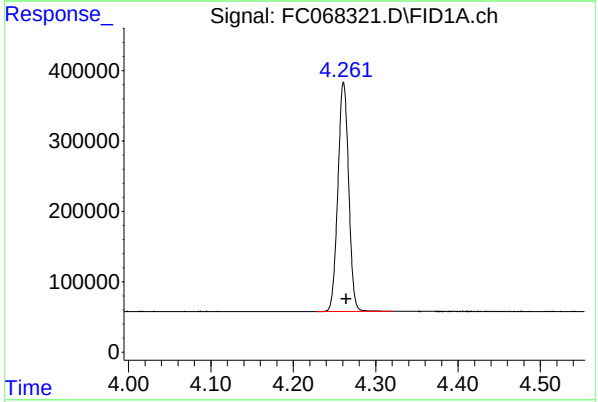




#1 n-Nonane (C9)

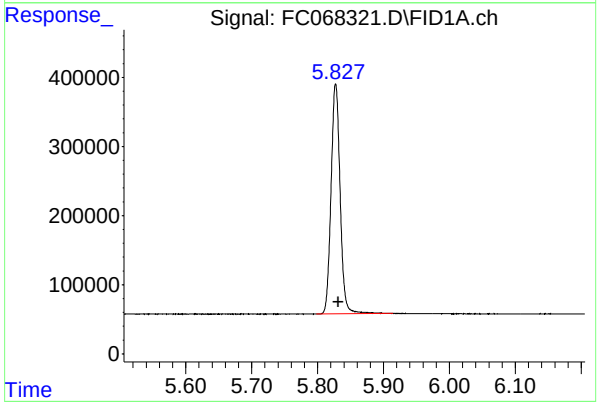
R.T.: 3.204 min
Delta R.T.: -0.004 min
Response: 2921206
Conc: 20.77 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



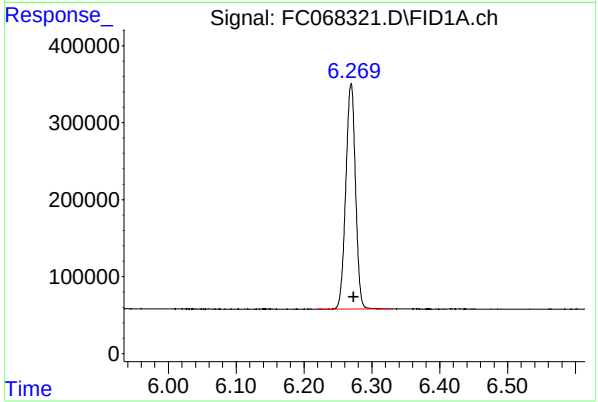
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.004 min
Response: 2957953
Conc: 20.88 ug/ml



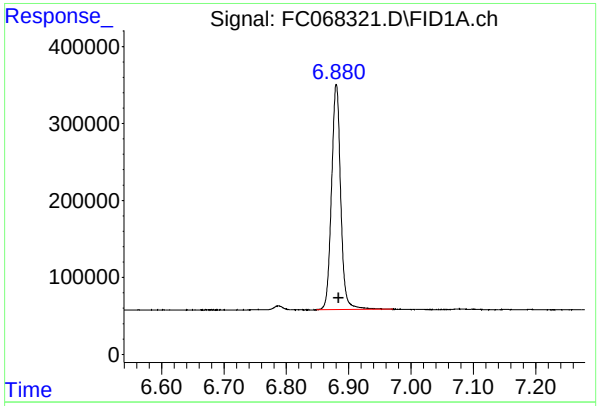
#3 A~Naphthalene (C11.7)

R.T.: 5.828 min
Delta R.T.: -0.004 min
Response: 3188598
Conc: 20.84 ug/ml



#4 n-Dodecane (C12)

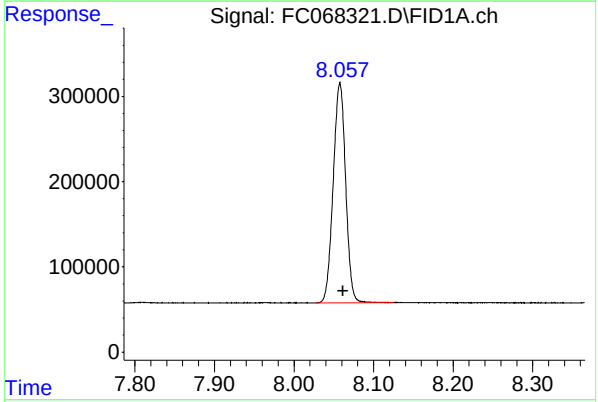
R.T.: 6.269 min
Delta R.T.: -0.004 min
Response: 2916409
Conc: 20.72 ug/ml



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

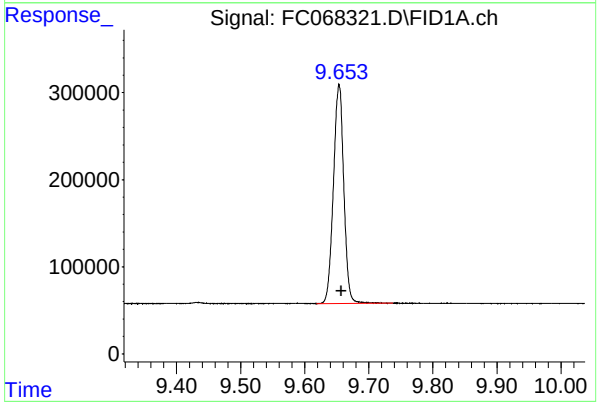
R.T.: 6.880 min
Delta R.T.: -0.004 min
Response: 2996735
Conc: 20.69 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



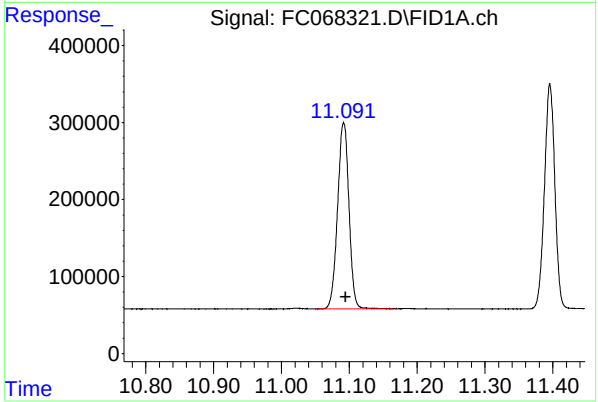
#6 n-Tetradecane (C14)

R.T.: 8.058 min
Delta R.T.: -0.004 min
Response: 2804182
Conc: 20.57 ug/ml



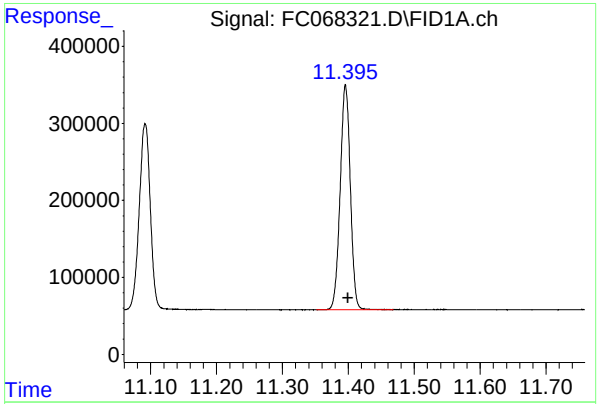
#7 n-Hexadecane (C16)

R.T.: 9.654 min
Delta R.T.: -0.004 min
Response: 2826196
Conc: 20.63 ug/ml



#8 n-Octadecane (C18)

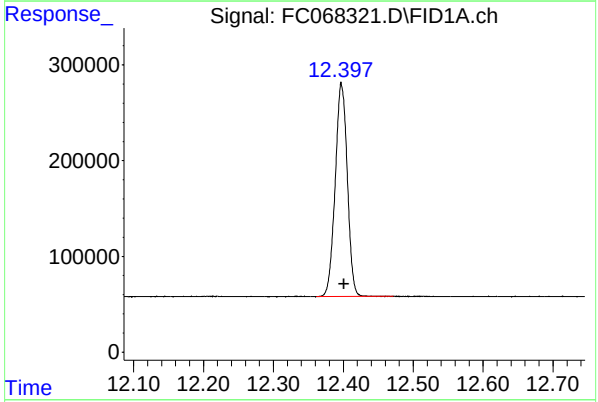
R.T.: 11.092 min
Delta R.T.: -0.003 min
Response: 2816962
Conc: 20.60 ug/ml



#9 ortho-Terphenyl (SURR)

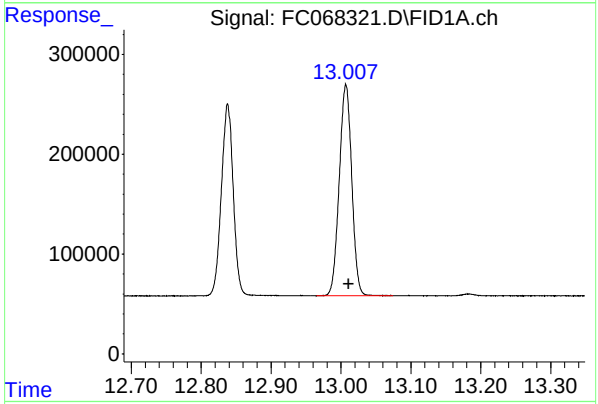
R.T.: 11.396 min
Delta R.T.: -0.004 min
Response: 3120216
Conc: 20.33 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



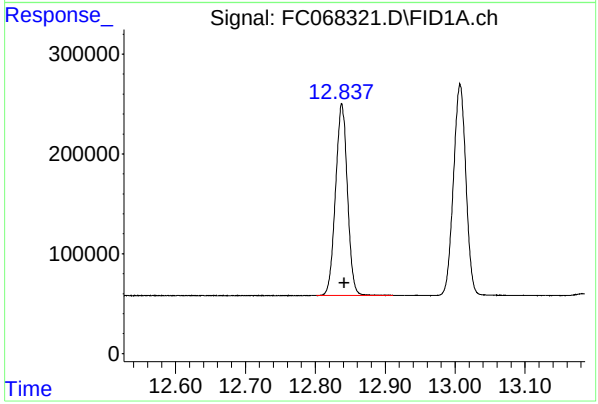
#10 n-Eicosane (C20)

R.T.: 12.398 min
Delta R.T.: -0.003 min
Response: 2680291
Conc: 20.57 ug/ml



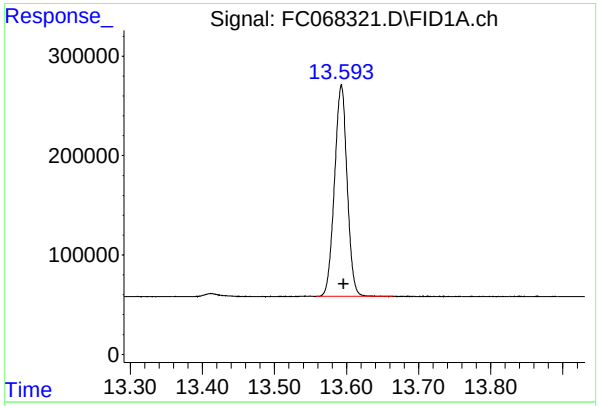
#11 n-Heneicosane (C21)

R.T.: 13.007 min
Delta R.T.: -0.004 min
Response: 2626108
Conc: 20.54 ug/ml



#12 1-chlorooctadecane (SURR)

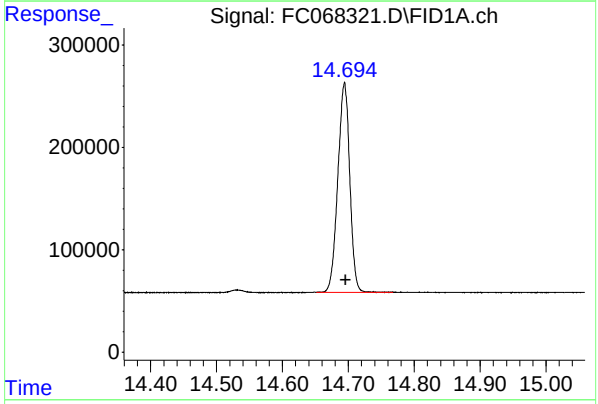
R.T.: 12.838 min
Delta R.T.: -0.004 min
Response: 2266768
Conc: 20.15 ug/ml



#13 n-Docosane (C22)

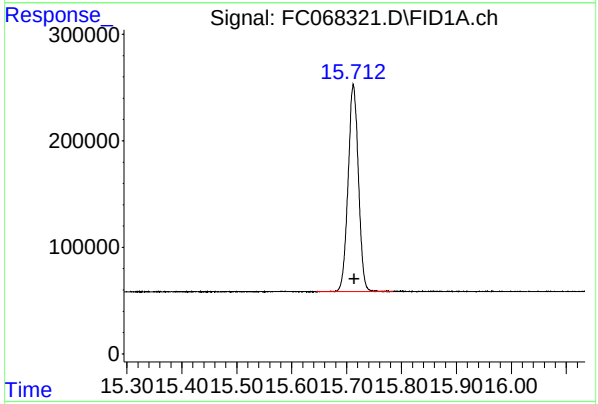
R.T.: 13.593 min
Delta R.T.: -0.003 min
Response: 2593669
Conc: 20.58 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



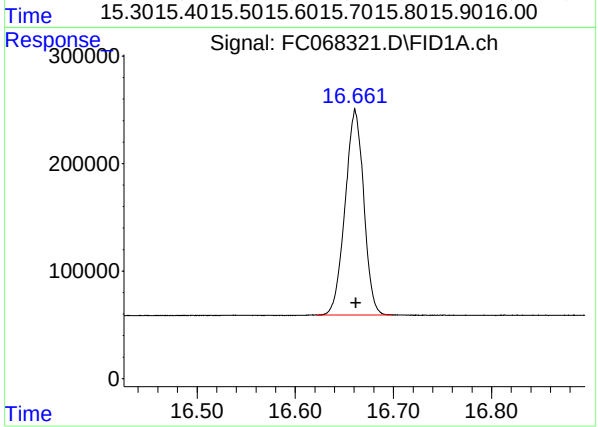
#14 n-Tetracosane (C24)

R.T.: 14.694 min
Delta R.T.: -0.002 min
Response: 2570552
Conc: 20.67 ug/ml



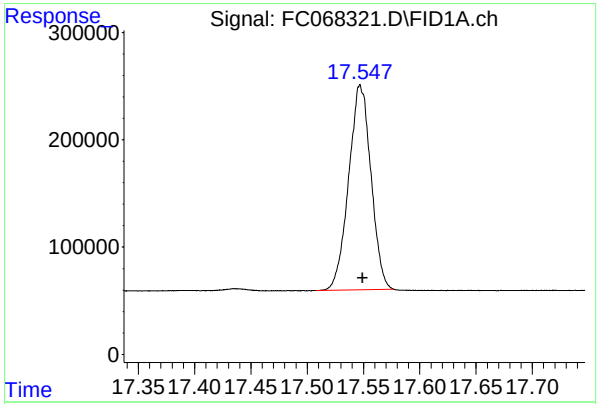
#15 n-Hexacosane (C26)

R.T.: 15.712 min
Delta R.T.: -0.002 min
Response: 2540397
Conc: 20.89 ug/ml



#16 n-Octacosane (C28)

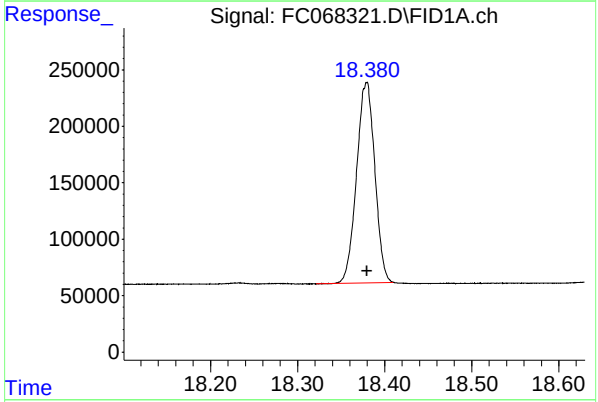
R.T.: 16.661 min
Delta R.T.: -0.001 min
Response: 2517151
Conc: 21.19 ug/ml



#17 n-Tricontane (C30)

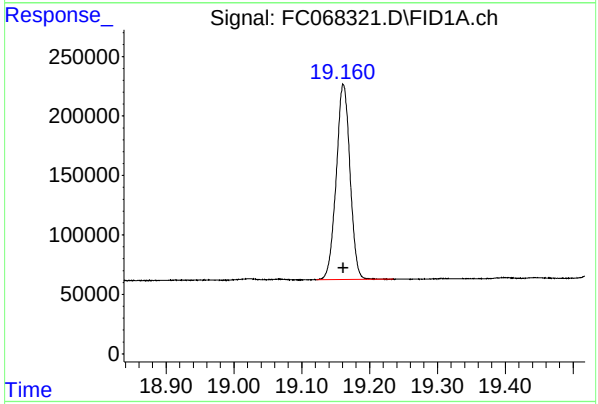
R.T.: 17.547 min
Delta R.T.: -0.002 min
Response: 2631751
Conc: 21.86 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



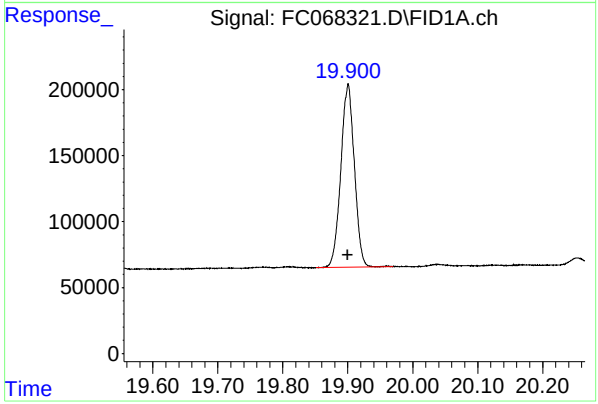
#18 n-Dotriacontane (C32)

R.T.: 18.379 min
Delta R.T.: 0.000 min
Response: 2592060
Conc: 22.33 ug/ml



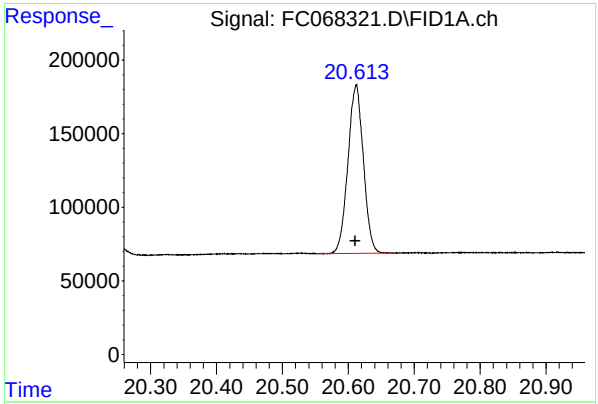
#19 n-Tetratriacontane (C34)

R.T.: 19.161 min
Delta R.T.: 0.000 min
Response: 2321702
Conc: 21.49 ug/ml



#20 n-Hexatriacontane (C36)

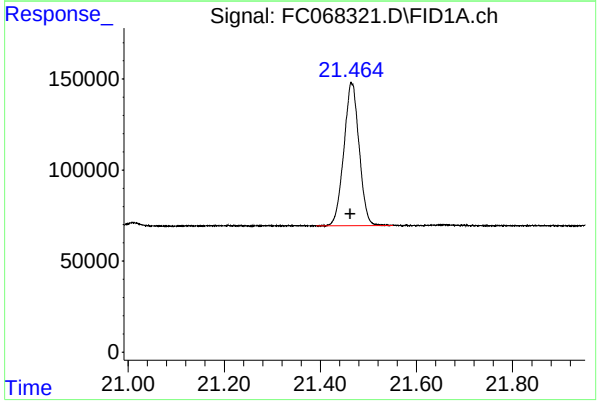
R.T.: 19.900 min
Delta R.T.: 0.000 min
Response: 2007468
Conc: 20.87 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.612 min
Delta R.T.: 0.000 min
Response: 1863761
Conc: 20.73 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.465 min
Delta R.T.: 0.003 min
Response: 1728277
Conc: 19.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
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 021125.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	3.204	3.171	3.264	BB	351210	2921206	91.61%	5.074%
2	4.261	4.228	4.321	BB	325775	2957953	92.77%	5.138%
3	5.828	5.798	5.914	BB	332892	3188598	100.00%	5.539%
4	6.269	6.218	6.331	BB	291281	2916409	91.46%	5.066%
5	6.880	6.848	6.971	BB	293726	2996735	93.98%	5.205%
6	8.058	8.028	8.124	BB	257597	2804182	87.94%	4.871%
7	9.654	9.618	9.738	BB	252849	2826196	88.63%	4.909%
8	11.092	11.051	11.164	BB	242049	2816962	88.34%	4.893%
9	11.396	11.351	11.468	BB	291476	3120216	97.86%	5.420%
10	12.398	12.361	12.471	BB	221408	2680291	84.06%	4.656%
11	12.838	12.801	12.911	BB	192148	2266768	71.09%	3.937%
12	13.007	12.964	13.074	BB	211956	2626108	82.36%	4.562%
13	13.593	13.558	13.664	BB	210666	2593669	81.34%	4.505%
14	14.694	14.651	14.768	BB	204322	2570552	80.62%	4.465%
15	15.712	15.644	15.784	BB	193358	2540397	79.67%	4.413%
16	16.661	16.598	16.728	BB	189931	2539276	79.64%	4.411%
17	17.547	17.494	17.614	BB	189694	2663953	83.55%	4.627%
18	18.379	18.328	18.438	BB	177380	2619367	82.15%	4.550%
19	19.161	19.121	19.234	BB	164155	2321702	72.81%	4.033%
20	19.900	19.851	19.969	BBA	139223	2007468	62.96%	3.487%
21	20.612	20.551	20.668	BB	113739	1863761	58.45%	3.237%
22	21.465	21.391	21.551	BB	78566	1728277	54.20%	3.002%
			Sum of corrected areas:			57570045		

Aliphatic EPH 021125.M Sat Mar 01 01:22:27 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068321.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 10:23
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: Mar 05 05:22:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	140.677	146.060 E3	-3.8	103	0.00
2	T	n-Decane (C10)	141.671	147.898 E3	-4.4	104	0.00
3	T	A~Naphthalene (C11.7)	153.034	159.430 E3	-4.2	103	0.00
4	T	n-Dodecane (C12)	140.758	145.820 E3	-3.6	103	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	149.837 E3	-3.5	102	0.00
6	T	n-Tetradecane (C14)	136.344	140.209 E3	-2.8	103	0.00
7	T	n-Hexadecane (C16)	136.965	141.310 E3	-3.2	103	0.00
8	T	n-Octadecane (C18)	136.758	140.848 E3	-3.0	103	0.00
9	S	ortho-Terphenyl (SURR)	153.444	156.011 E3	-1.7	102	0.00
10	T	n-Eicosane (C20)	130.287	134.015 E3	-2.9	103	0.00
11	T	n-Heneicosane (C21)	127.847	131.305 E3	-2.7	103	0.00
12	S	1-chlorooctadecane (SURR)	112.474	113.338 E3	-0.8	100	0.00
13	T	n-Docosane (C22)	126.028	129.683 E3	-2.9	103	0.00
14	T	n-Tetracosane (C24)	124.377	128.528 E3	-3.3	103	0.00
15	T	n-Hexacosane (C26)	121.593	127.020 E3	-4.5	104	0.00
16	T	n-Octacosane (C28)	118.767	125.858 E3	-6.0	106	0.00
17	T	n-Tricontane (C30)	120.366	131.588 E3	-9.3	110	0.00
18	T	n-Dotriacontane (C32)	116.067	129.603 E3	-11.7	112	0.00
19	T	n-Tetratriacontane (C34)	108.059	116.085 E3	-7.4	108	0.00
20	T	n-Hexatriacontane (C36)	96.169	100.373 E3	-4.4	104	0.00
21	T	n-Octatriacontane (C38)	89.898	93.188 E3	-3.7	103	0.00
22	T	n-Tetracontane (C40)	86.520	86.414 E3	0.1	100	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 : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068331.D**						
Aliphatic C9-C12	8595776.000	60.000	3.104	6.369	143262.933	141035.502	-1.579
Aliphatic C12-C16	5515542.000	40.000	6.370	9.754	137888.550	136654.515	-0.903
Aliphatic C16-C21	7931958.000	60.000	9.755	13.107	132199.300	131630.895	-0.432
Aliphatic C21-C28	9935233.000	80.000	13.108	16.761	124190.413	122691.322	-1.222
Aliphatic C28-C40	12971411.000	120.000	16.762	21.565	108095.092	102846.462	-5.103
Aliphatic EPH	44949920.000	360.000	3.104	21.565	124860.889	122175.127	-2.198

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068331.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8595776.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5515542.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7931958.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9935233.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	12971411.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	44949920.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
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: Mar 05 05:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	11.396	3041324	19.820 ug/ml
Spiked Amount	50.000		Recovery =	39.64%
12)	S 1-chlorooctadecane (S...	12.838	2216283	19.705 ug/ml
Spiked Amount	50.000		Recovery =	39.41%
	Target Compounds			
1)	T n-Nonane (C9)	3.204	2855933	20.301 ug/ml
2)	T n-Decane (C10)	4.261	2888976	20.392 ug/ml
3)	T A~Naphthalene (C11.7)	5.827	3101671	20.268 ug/ml
4)	T n-Dodecane (C12)	6.269	2850867	20.254 ug/ml
5)	T A~2-methylnaphthalene...	6.879	2932380	20.247 ug/ml
6)	T n-Tetradecane (C14)	8.057	2744536	20.130 ug/ml
7)	T n-Hexadecane (C16)	9.653	2771006	20.231 ug/ml
8)	T n-Octadecane (C18)	11.091	2755090	20.146 ug/ml
10)	T n-Eicosane (C20)	12.397	2614343	20.066 ug/ml
11)	T n-Heneicosane (C21)	13.008	2562525	20.044 ug/ml
13)	T n-Docosane (C22)	13.592	2525576	20.040 ug/ml
14)	T n-Tetracosane (C24)	14.693	2501354	20.111 ug/ml
15)	T n-Hexacosane (C26)	15.713	2460872	20.239 ug/ml
16)	T n-Octacosane (C28)	16.661	2447431	20.607 ug/ml
17)	T n-Tricontane (C30)	17.548	2580185	21.436 ug/ml
18)	T n-Dotriacontane (C32)	18.378	2550561	21.975 ug/ml
19)	T n-Tetratriacontane (C34)	19.161	2278466	21.085 ug/ml
20)	T n-Hexatriacontane (C36)	19.900	1969700	20.482 ug/ml
21)	T n-Octatriacontane (C38)	20.612	1843490	20.507 ug/ml
22)	T n-Tetracontane (C40)	21.464	1749009	20.215 ug/ml

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

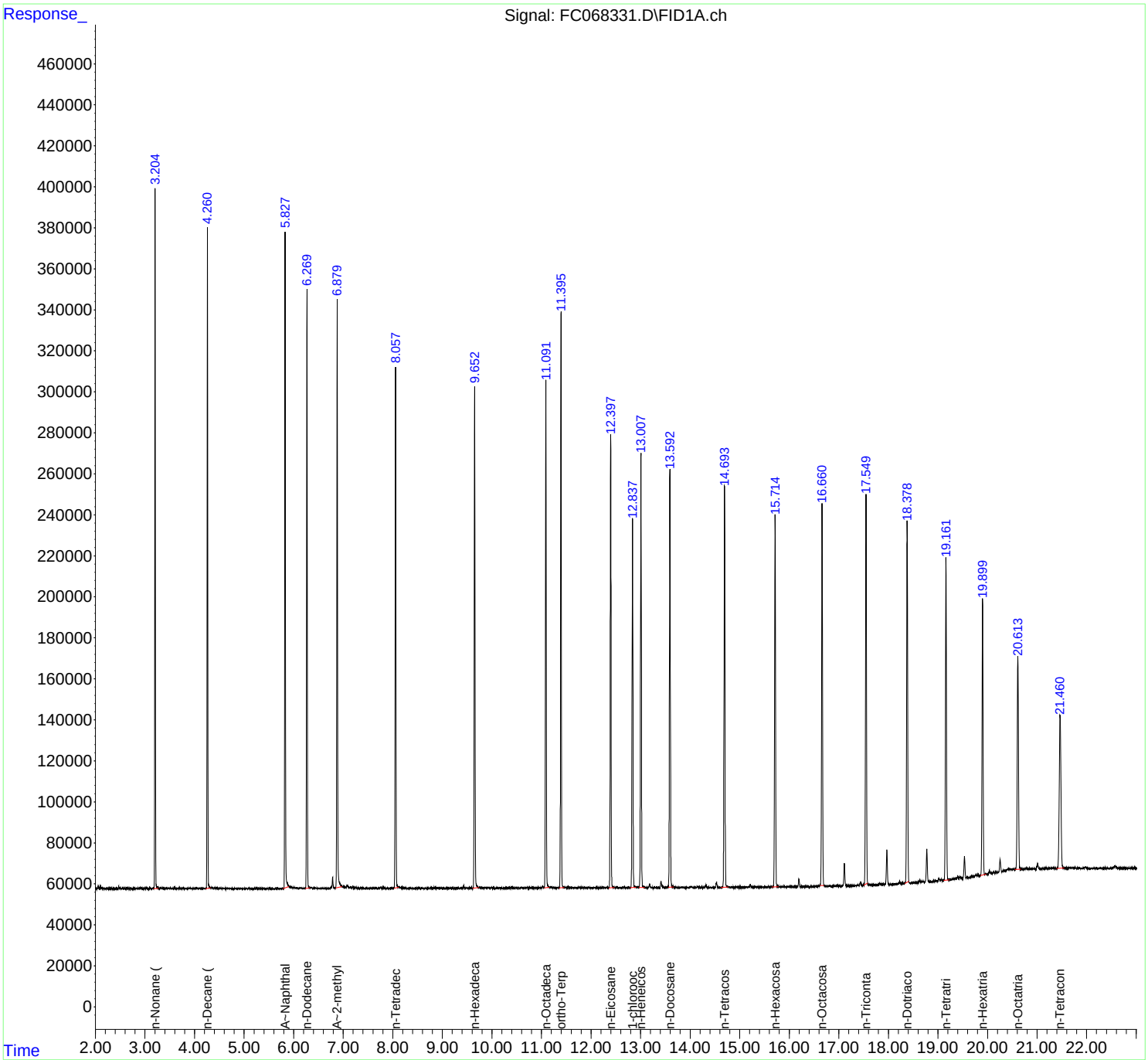
Quantitation Report (QT Reviewed)

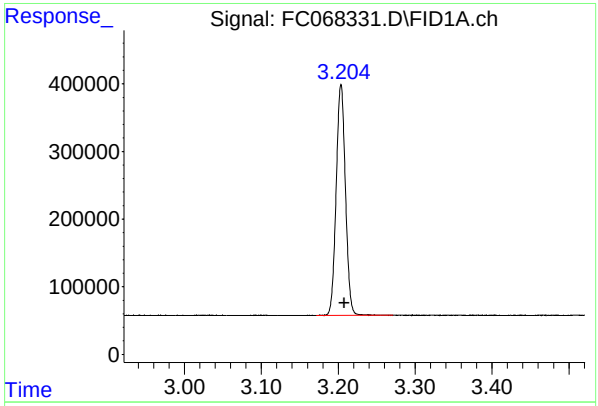
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

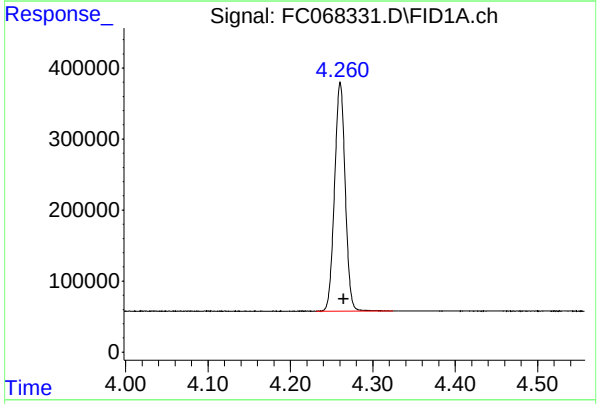




#1 n-Nonane (C9)

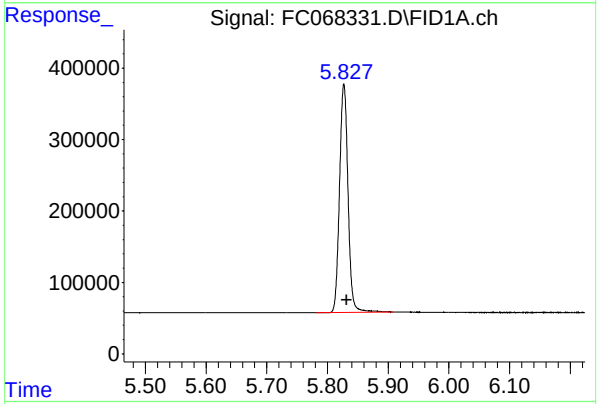
R.T.: 3.204 min
Delta R.T.: -0.004 min
Response: 2855933
Conc: 20.30 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



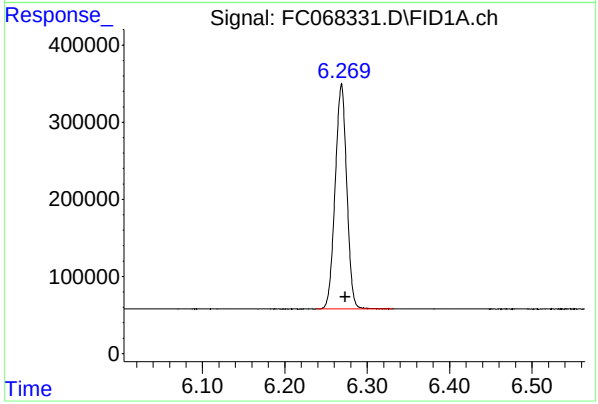
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.004 min
Response: 2888976
Conc: 20.39 ug/ml



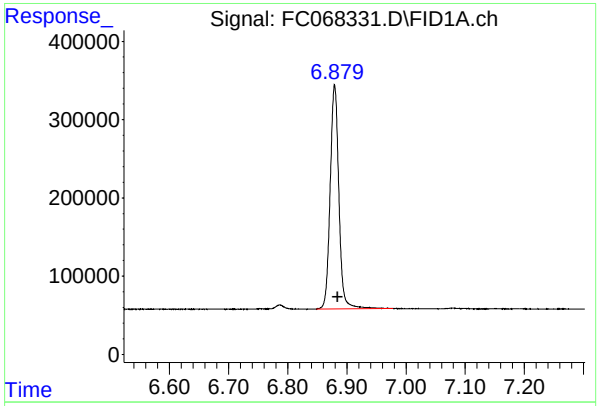
#3 A~Naphthalene (C11.7)

R.T.: 5.827 min
Delta R.T.: -0.004 min
Response: 3101671
Conc: 20.27 ug/ml



#4 n-Dodecane (C12)

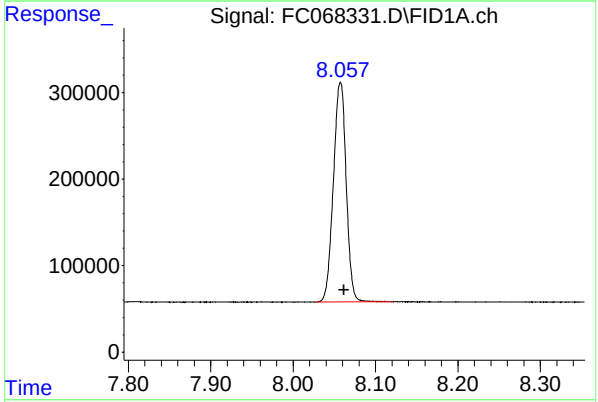
R.T.: 6.269 min
Delta R.T.: -0.005 min
Response: 2850867
Conc: 20.25 ug/ml



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

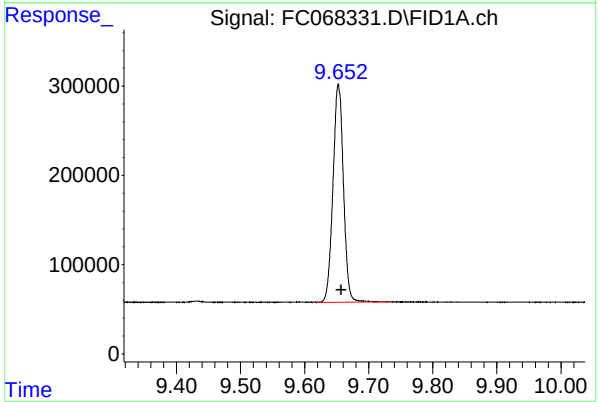
R.T.: 6.879 min
Delta R.T.: -0.005 min
Response: 2932380
Conc: 20.25 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



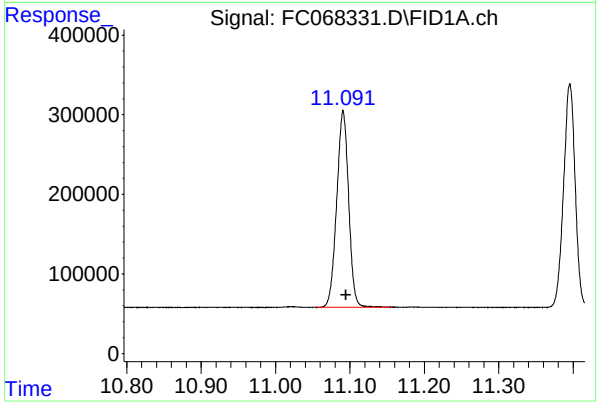
#6 n-Tetradecane (C14)

R.T.: 8.057 min
Delta R.T.: -0.004 min
Response: 2744536
Conc: 20.13 ug/ml



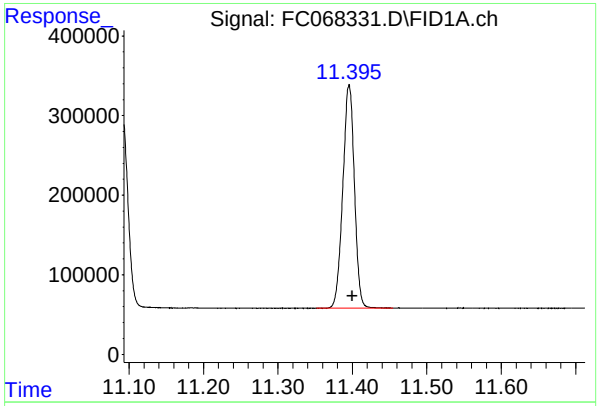
#7 n-Hexadecane (C16)

R.T.: 9.653 min
Delta R.T.: -0.004 min
Response: 2771006
Conc: 20.23 ug/ml



#8 n-Octadecane (C18)

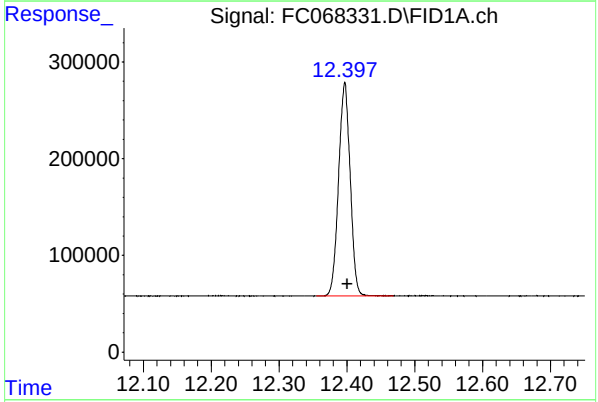
R.T.: 11.091 min
Delta R.T.: -0.004 min
Response: 2755090
Conc: 20.15 ug/ml



#9 ortho-Terphenyl (SURR)

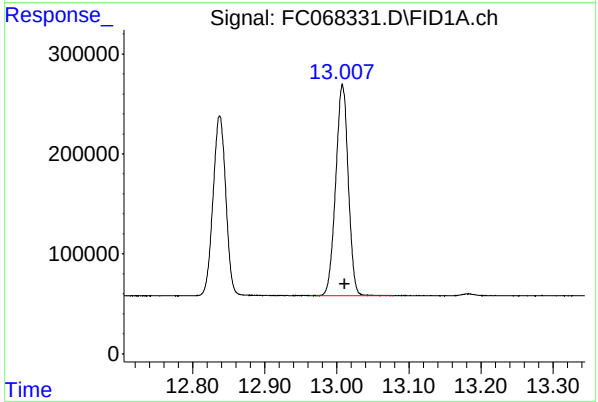
R.T.: 11.396 min
Delta R.T.: -0.004 min
Response: 3041324
Conc: 19.82 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



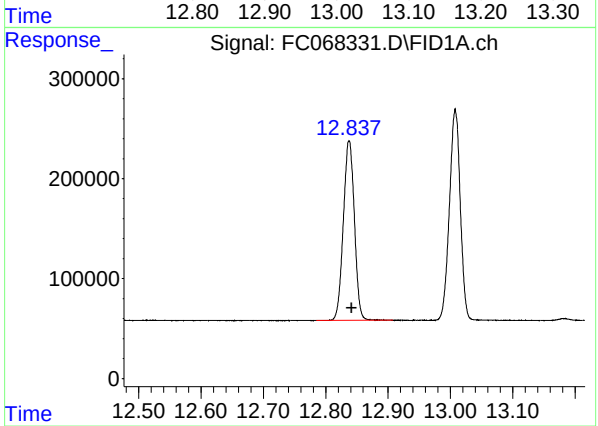
#10 n-Eicosane (C20)

R.T.: 12.397 min
Delta R.T.: -0.004 min
Response: 2614343
Conc: 20.07 ug/ml



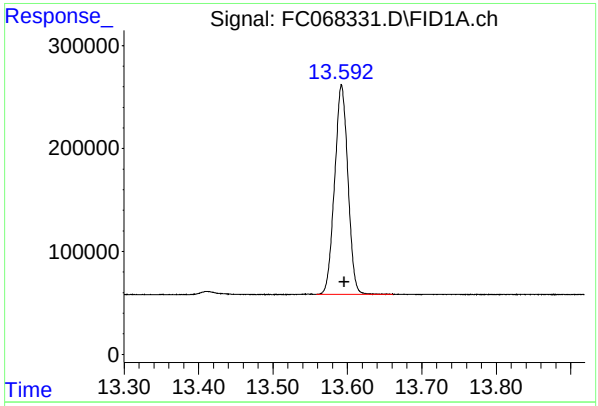
#11 n-Heneicosane (C21)

R.T.: 13.008 min
Delta R.T.: -0.003 min
Response: 2562525
Conc: 20.04 ug/ml



#12 1-chlorooctadecane (SURR)

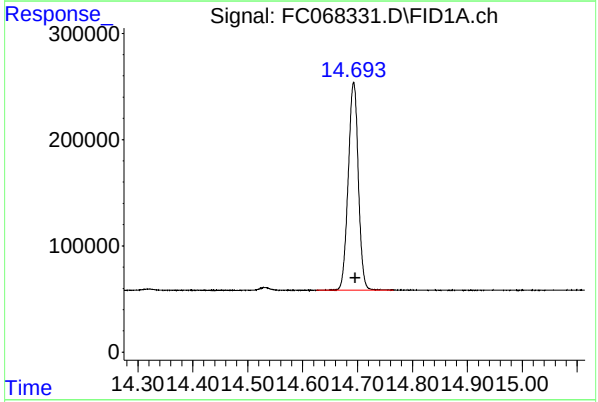
R.T.: 12.838 min
Delta R.T.: -0.004 min
Response: 2216283
Conc: 19.70 ug/ml



#13 n-Docosane (C22)

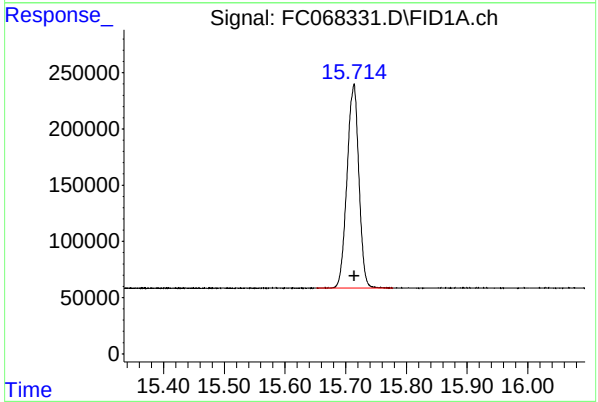
R.T.: 13.592 min
Delta R.T.: -0.004 min
Response: 2525576
Conc: 20.04 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



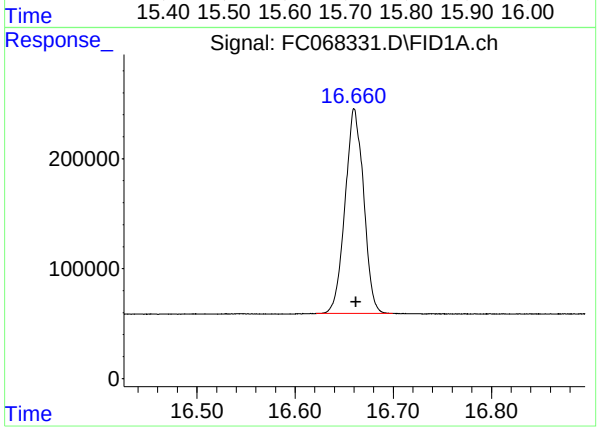
#14 n-Tetracosane (C24)

R.T.: 14.693 min
Delta R.T.: -0.003 min
Response: 2501354
Conc: 20.11 ug/ml



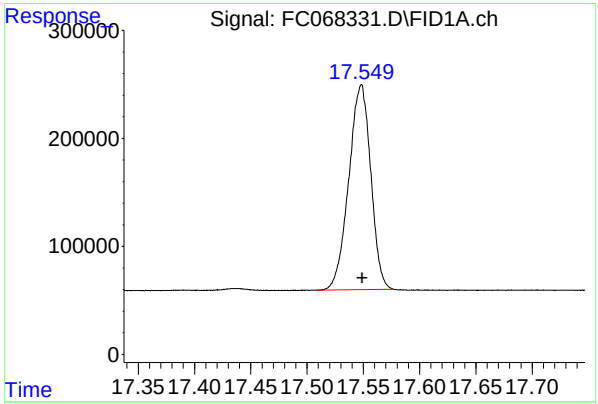
#15 n-Hexacosane (C26)

R.T.: 15.713 min
Delta R.T.: 0.000 min
Response: 2460872
Conc: 20.24 ug/ml



#16 n-Octacosane (C28)

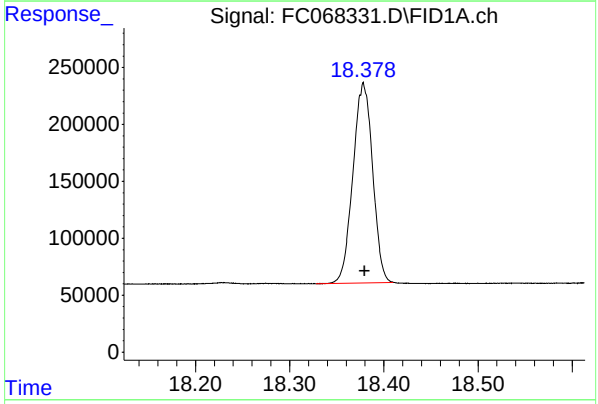
R.T.: 16.661 min
Delta R.T.: -0.001 min
Response: 2447431
Conc: 20.61 ug/ml



#17 n-Tricontane (C30)

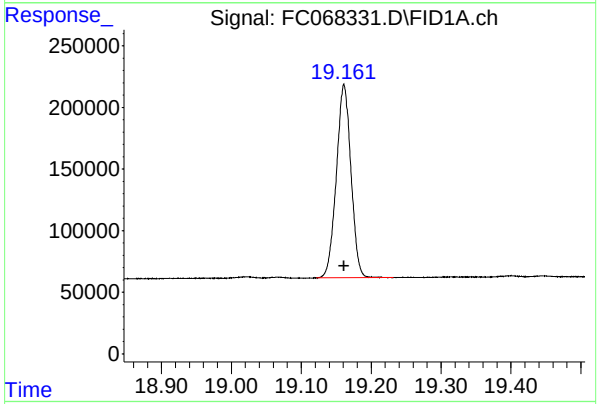
R.T.: 17.548 min
Delta R.T.: -0.001 min
Response: 2580185
Conc: 21.44 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



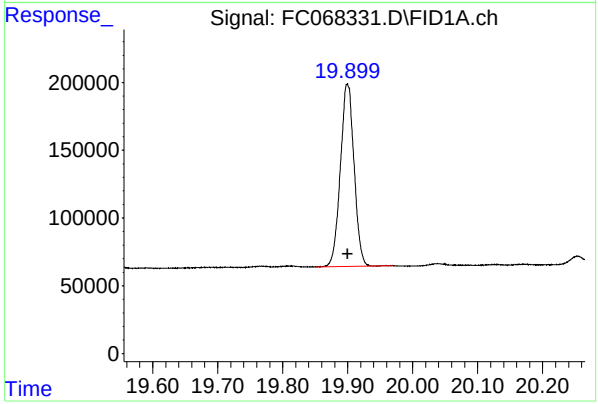
#18 n-Dotriacontane (C32)

R.T.: 18.378 min
Delta R.T.: -0.001 min
Response: 2550561
Conc: 21.97 ug/ml



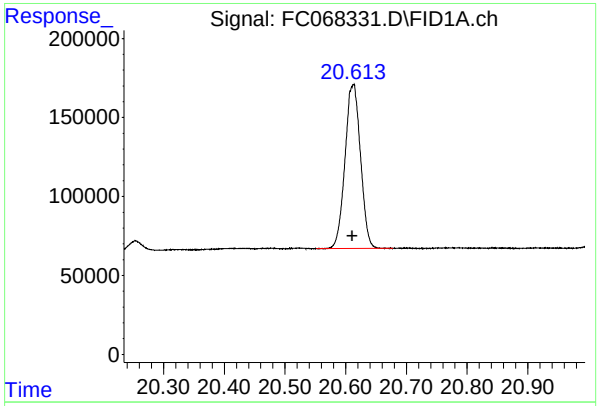
#19 n-Tetratriacontane (C34)

R.T.: 19.161 min
Delta R.T.: 0.000 min
Response: 2278466
Conc: 21.09 ug/ml



#20 n-Hexatriacontane (C36)

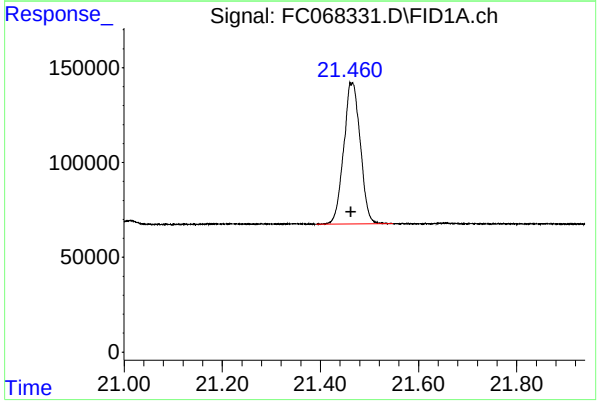
R.T.: 19.900 min
Delta R.T.: 0.000 min
Response: 1969700
Conc: 20.48 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.612 min
Delta R.T.: 0.000 min
Response: 1843490
Conc: 20.51 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.464 min
Delta R.T.: 0.002 min
Response: 1749009
Conc: 20.21 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
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 021125.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	3.204	3.171	3.271	BB	340781	2855933	92.08%	5.069%
2	4.261	4.231	4.325	BB	321681	2888976	93.14%	5.127%
3	5.827	5.781	5.908	BB	319702	3101671	100.00%	5.505%
4	6.269	6.238	6.331	BB	288188	2850867	91.91%	5.060%
5	6.879	6.848	6.978	BB	284524	2932380	94.54%	5.204%
6	8.057	8.028	8.121	BB	254939	2744536	88.49%	4.871%
7	9.653	9.618	9.738	BB	242755	2771006	89.34%	4.918%
8	11.091	11.055	11.158	BB	246136	2755090	88.83%	4.890%
9	11.396	11.351	11.455	BB	281274	3041324	98.05%	5.398%
10	12.397	12.355	12.468	BB	221154	2614343	84.29%	4.640%
11	12.838	12.785	12.908	BB	180054	2216283	71.45%	3.934%
12	13.008	12.971	13.078	BB	210871	2562525	82.62%	4.548%
13	13.592	13.558	13.661	BB	202870	2525576	81.43%	4.482%
14	14.693	14.625	14.765	BB	195873	2501354	80.65%	4.439%
15	15.713	15.651	15.778	BB	183325	2460872	79.34%	4.368%
16	16.661	16.598	16.731	BB	184728	2472708	79.72%	4.389%
17	17.548	17.478	17.615	BB	190067	2607807	84.08%	4.628%
18	18.378	18.198	18.445	BB	175351	2599704	83.82%	4.614%
19	19.161	19.121	19.231	BB	156515	2278466	73.46%	4.044%
20	19.900	19.851	19.970	BBA	134773	1969700	63.50%	3.496%
21	20.612	20.551	20.678	BB	103519	1843490	59.44%	3.272%
22	21.464	21.391	21.548	BB	74225	1749009	56.39%	3.104%
			Sum of corrected areas:			56343617		

Aliphatic EPH 021125.M Sat Mar 01 01:24:21 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068331.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 16:30
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: Mar 05 05:24:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	140.677	142.797 E3	-1.5	101	0.00
2	T	n-Decane (C10)	141.671	144.449 E3	-2.0	101	0.00
3	T	A~Naphthalene (C11.7)	153.034	155.084 E3	-1.3	100	0.00
4	T	n-Dodecane (C12)	140.758	142.543 E3	-1.3	101	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	146.619 E3	-1.2	100	0.00
6	T	n-Tetradecane (C14)	136.344	137.227 E3	-0.6	101	0.00
7	T	n-Hexadecane (C16)	136.965	138.550 E3	-1.2	101	0.00
8	T	n-Octadecane (C18)	136.758	137.754 E3	-0.7	101	0.00
9	S	ortho-Terphenyl (SURR)	153.444	152.066 E3	0.9	99	0.00
10	T	n-Eicosane (C20)	130.287	130.717 E3	-0.3	100	0.00
11	T	n-Heneicosane (C21)	127.847	128.126 E3	-0.2	100	0.00
12	S	1-chlorooctadecane (SURR)	112.474	110.814 E3	1.5	98	0.00
13	T	n-Docosane (C22)	126.028	126.279 E3	-0.2	100	0.00
14	T	n-Tetracosane (C24)	124.377	125.068 E3	-0.6	100	0.00
15	T	n-Hexacosane (C26)	121.593	123.044 E3	-1.2	101	0.00
16	T	n-Octacosane (C28)	118.767	122.372 E3	-3.0	103	0.00
17	T	n-Tricontane (C30)	120.366	129.009 E3	-7.2	108	0.00
18	T	n-Dotriacontane (C32)	116.067	127.528 E3	-9.9	110	0.00
19	T	n-Tetratriacontane (C34)	108.059	113.923 E3	-5.4	106	0.00
20	T	n-Hexatriacontane (C36)	96.169	98.485 E3	-2.4	103	0.00
21	T	n-Octatriacontane (C38)	89.898	92.174 E3	-2.5	102	0.00
22	T	n-Tetracontane (C40)	86.520	87.450 E3	-1.1	101	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 : FC022825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068341.D**						
Aliphatic C9-C12	8509686.000	60.000	3.104	6.369	141828.100	141035.502	-0.562
Aliphatic C12-C16	5481187.000	40.000	6.370	9.754	137029.675	136654.515	-0.275
Aliphatic C16-C21	7916038.000	60.000	9.755	13.107	131933.967	131630.895	-0.230
Aliphatic C21-C28	9904656.000	80.000	13.108	16.761	123808.200	122691.322	-0.910
Aliphatic C28-C40	13174250.000	120.000	16.762	21.565	109785.417	102846.462	-6.747
Aliphatic EPH	44985817.000	360.000	3.104	21.565	124960.603	122175.127	-2.280

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068341.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.104	6.369	8509686.000	60.000	ug/ml
Aliphatic C12-C16	6.370	9.754	5481187.000	40.000	ug/ml
Aliphatic C16-C21	9.755	13.107	7916038.000	60.000	ug/ml
Aliphatic C21-C28	13.108	16.761	9904656.000	80.000	ug/ml
Aliphatic C28-C40	16.762	21.565	13174250.000	120.000	ug/ml
Aliphatic EPH	3.104	21.565	44985817.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
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: Mar 05 05:26:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	11.395	3019061	19.675 ug/ml
Spiked Amount	50.000		Recovery =	39.35%
12) S	1-chlorooctadecane (S...	12.838	2213113	19.677 ug/ml
Spiked Amount	50.000		Recovery =	39.35%
	Target Compounds			
1) T	n-Nonane (C9)	3.204	2821805	20.059 ug/ml
2) T	n-Decane (C10)	4.261	2860924	20.194 ug/ml
3) T	A~Naphthalene (C11.7)	5.827	3080505	20.130 ug/ml
4) T	n-Dodecane (C12)	6.268	2826957	20.084 ug/ml
5) T	A~2-methylnaphthalene...	6.879	2905424	20.061 ug/ml
6) T	n-Tetradecane (C14)	8.057	2729025	20.016 ug/ml
7) T	n-Hexadecane (C16)	9.652	2752162	20.094 ug/ml
8) T	n-Octadecane (C18)	11.091	2750082	20.109 ug/ml
10) T	n-Eicosane (C20)	12.397	2613618	20.061 ug/ml
11) T	n-Heneicosane (C21)	13.008	2552338	19.964 ug/ml
13) T	n-Docosane (C22)	13.592	2514482	19.952 ug/ml
14) T	n-Tetracosane (C24)	14.694	2489195	20.013 ug/ml
15) T	n-Hexacosane (C26)	15.712	2451970	20.165 ug/ml
16) T	n-Octacosane (C28)	16.661	2449009	20.620 ug/ml
17) T	n-Tricontane (C30)	17.548	2590876	21.525 ug/ml
18) T	n-Dotriacontane (C32)	18.379	2561161	22.066 ug/ml
19) T	n-Tetratriacontane (C34)	19.162	2275964	21.062 ug/ml
20) T	n-Hexatriacontane (C36)	19.901	1942697	20.201 ug/ml
21) T	n-Octatriacontane (C38)	20.612	1869920	20.801 ug/ml
22) T	n-Tetracontane (C40)	21.464	1933632	22.349 ug/ml

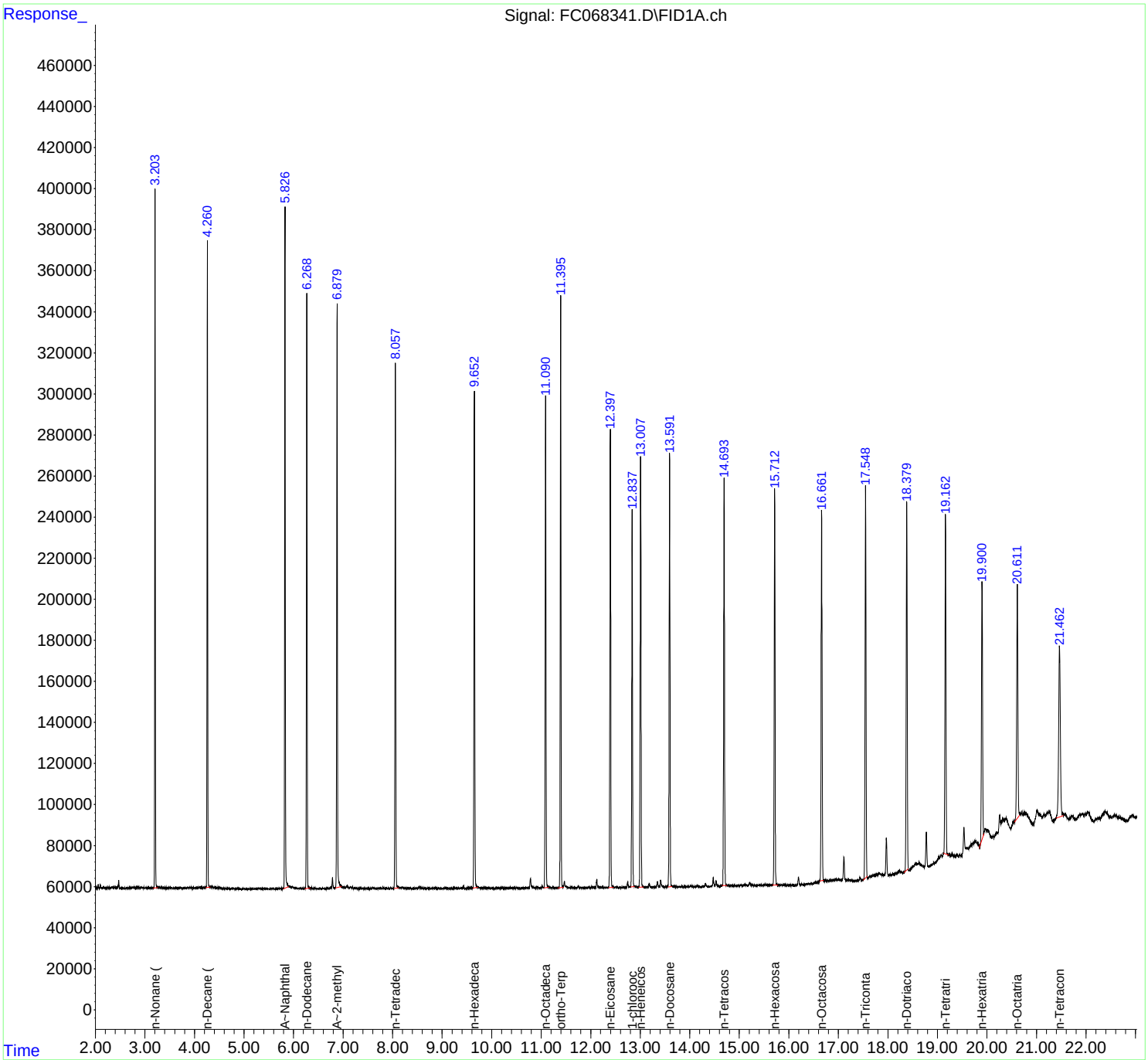
(f)=RT Delta > 1/2 Window (m)=manual int.

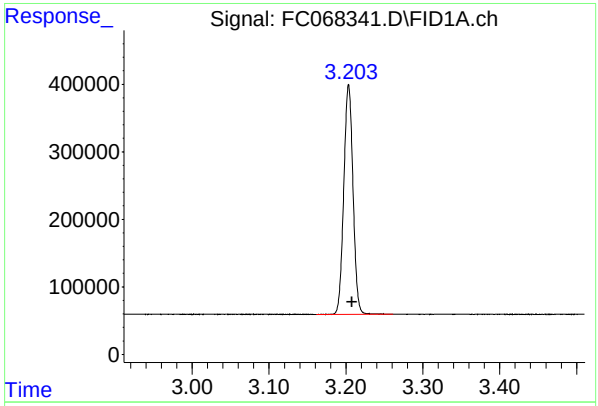
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 05 05:26:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

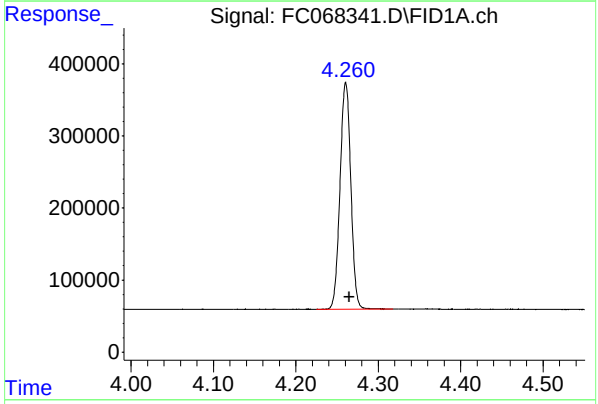




#1 n-Nonane (C9)

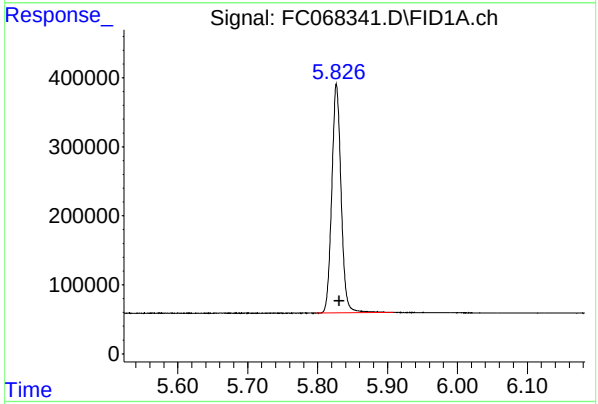
R.T.: 3.204 min
Delta R.T.: -0.004 min
Response: 2821805
Conc: 20.06 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



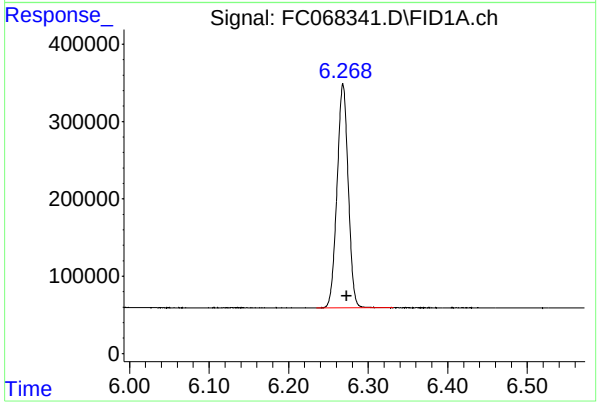
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.004 min
Response: 2860924
Conc: 20.19 ug/ml



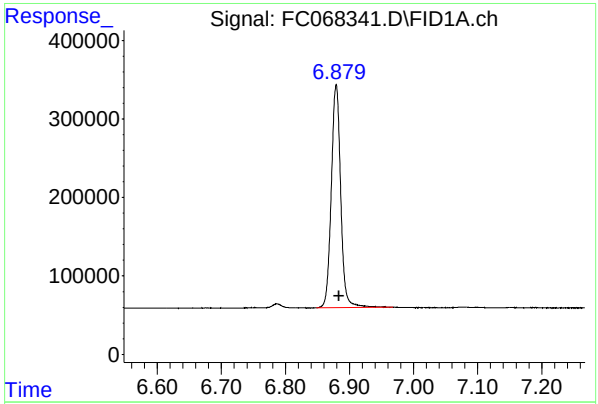
#3 A~Naphthalene (C11.7)

R.T.: 5.827 min
Delta R.T.: -0.004 min
Response: 3080505
Conc: 20.13 ug/ml



#4 n-Dodecane (C12)

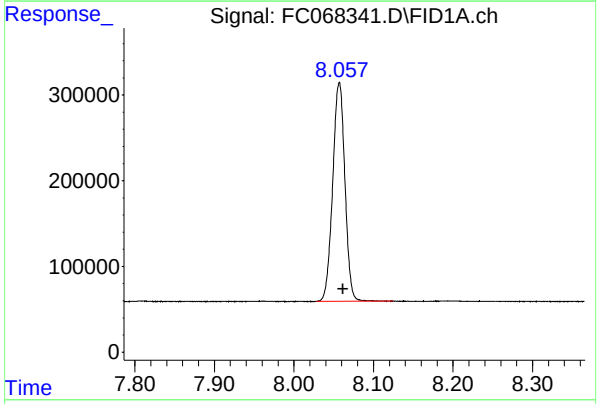
R.T.: 6.268 min
Delta R.T.: -0.005 min
Response: 2826957
Conc: 20.08 ug/ml



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

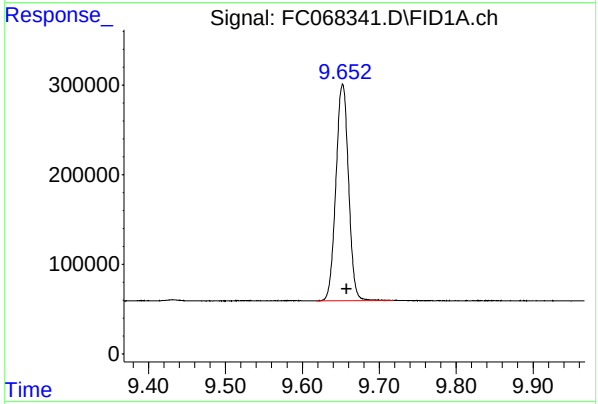
R.T.: 6.879 min
Delta R.T.: -0.005 min
Response: 2905424
Conc: 20.06 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



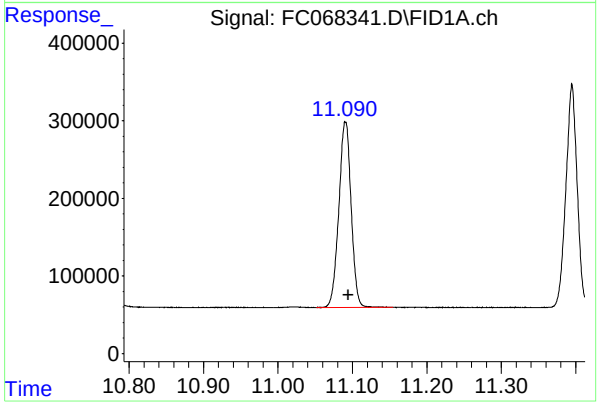
#6 n-Tetradecane (C14)

R.T.: 8.057 min
Delta R.T.: -0.005 min
Response: 2729025
Conc: 20.02 ug/ml



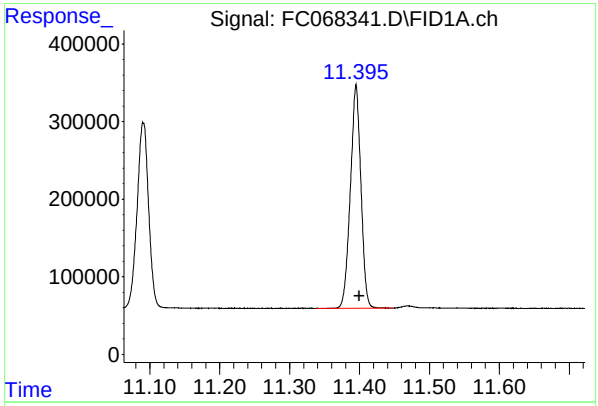
#7 n-Hexadecane (C16)

R.T.: 9.652 min
Delta R.T.: -0.005 min
Response: 2752162
Conc: 20.09 ug/ml



#8 n-Octadecane (C18)

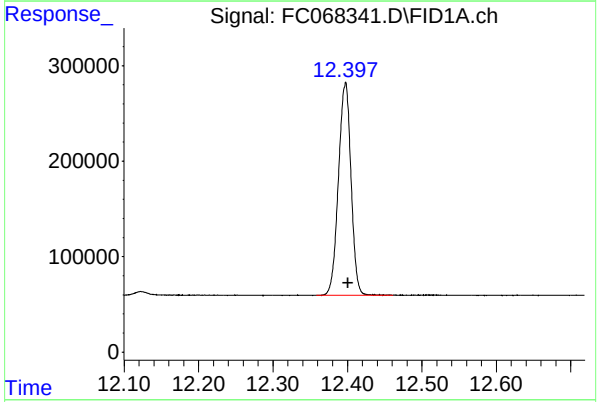
R.T.: 11.091 min
Delta R.T.: -0.004 min
Response: 2750082
Conc: 20.11 ug/ml



#9 ortho-Terphenyl (SURR)

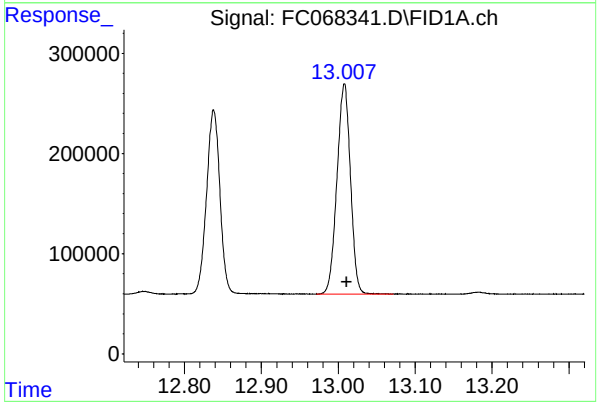
R.T.: 11.395 min
Delta R.T.: -0.005 min
Response: 3019061
Conc: 19.68 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



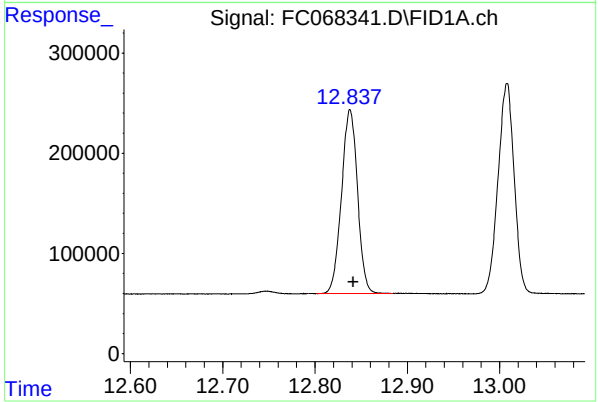
#10 n-Eicosane (C20)

R.T.: 12.397 min
Delta R.T.: -0.004 min
Response: 2613618
Conc: 20.06 ug/ml



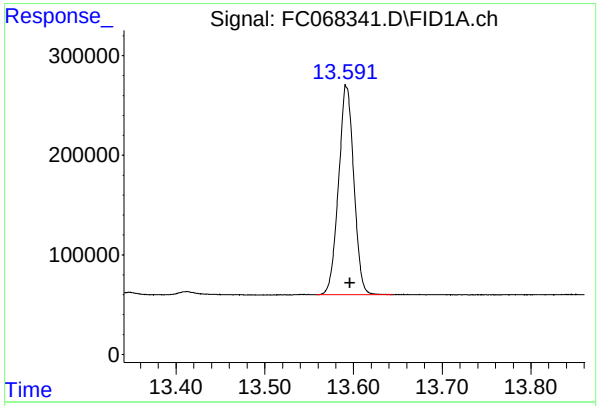
#11 n-Heneicosane (C21)

R.T.: 13.008 min
Delta R.T.: -0.003 min
Response: 2552338
Conc: 19.96 ug/ml



#12 1-chlorooctadecane (SURR)

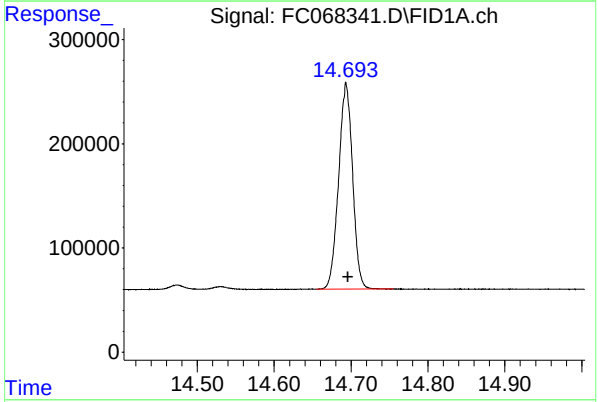
R.T.: 12.838 min
Delta R.T.: -0.004 min
Response: 2213113
Conc: 19.68 ug/ml



#13 n-Docosane (C22)

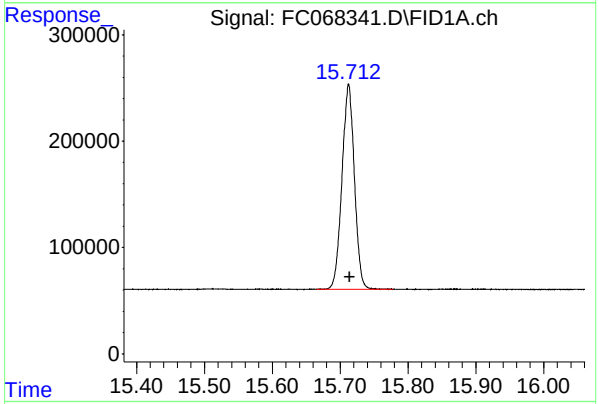
R.T.: 13.592 min
Delta R.T.: -0.004 min
Response: 2514482
Conc: 19.95 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



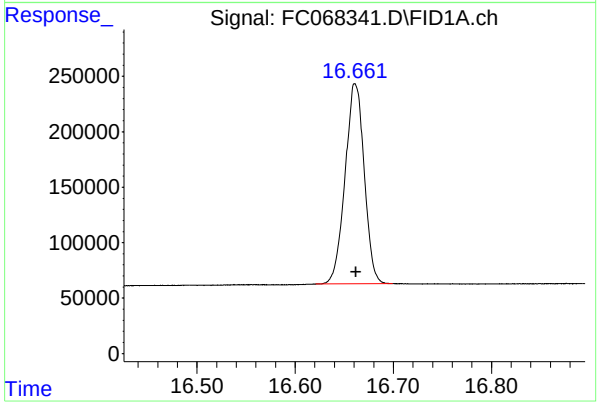
#14 n-Tetracosane (C24)

R.T.: 14.694 min
Delta R.T.: -0.002 min
Response: 2489195
Conc: 20.01 ug/ml



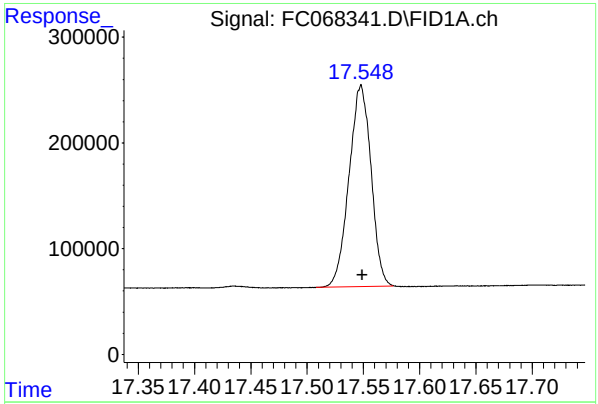
#15 n-Hexacosane (C26)

R.T.: 15.712 min
Delta R.T.: -0.001 min
Response: 2451970
Conc: 20.17 ug/ml



#16 n-Octacosane (C28)

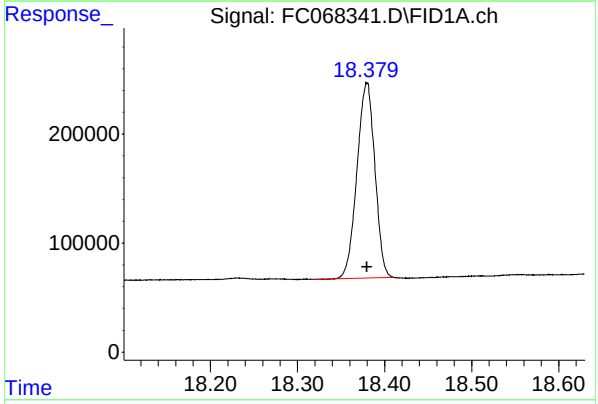
R.T.: 16.661 min
Delta R.T.: 0.000 min
Response: 2449009
Conc: 20.62 ug/ml



#17 n-Tricontane (C30)

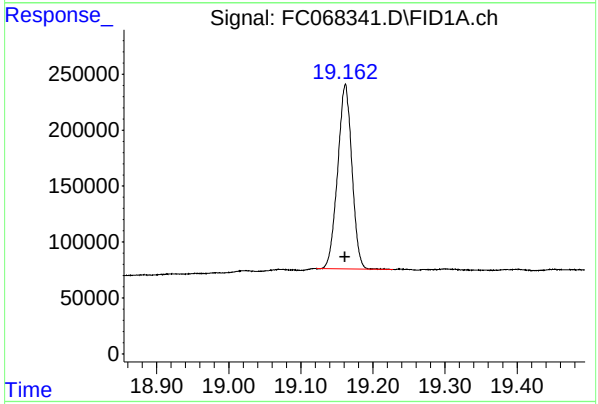
R.T.: 17.548 min
Delta R.T.: -0.001 min
Response: 2590876
Conc: 21.52 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



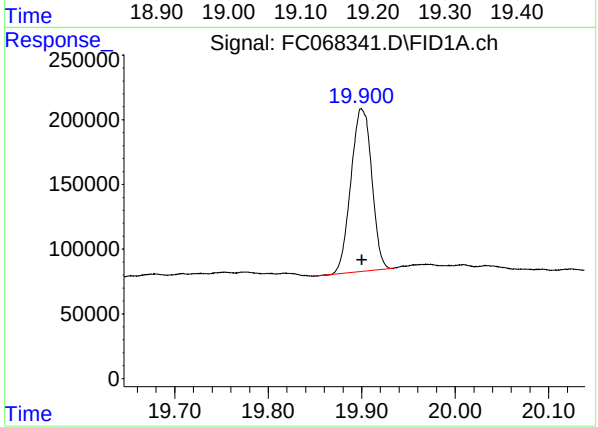
#18 n-Dotriacontane (C32)

R.T.: 18.379 min
Delta R.T.: 0.000 min
Response: 2561161
Conc: 22.07 ug/ml



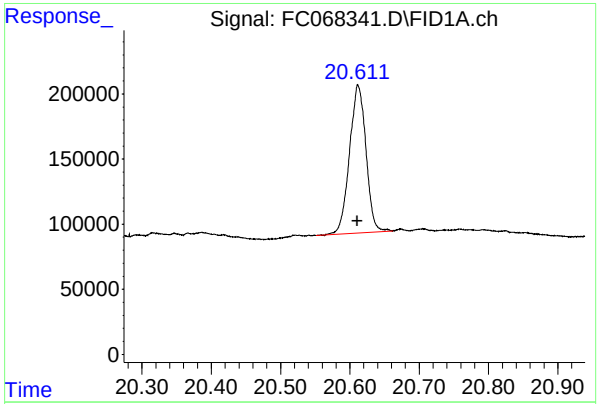
#19 n-Tetratriacontane (C34)

R.T.: 19.162 min
Delta R.T.: 0.000 min
Response: 2275964
Conc: 21.06 ug/ml



#20 n-Hexatriacontane (C36)

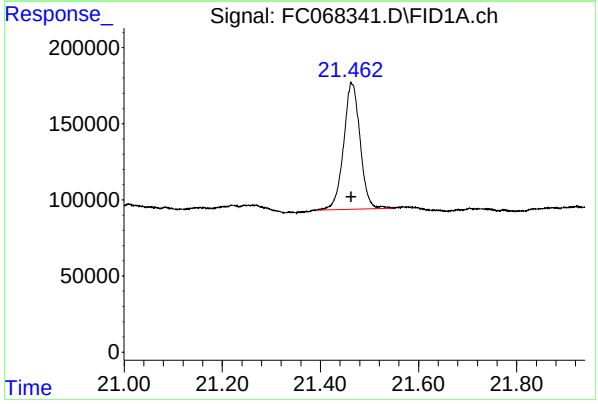
R.T.: 19.901 min
Delta R.T.: 0.000 min
Response: 1942697
Conc: 20.20 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.612 min
Delta R.T.: 0.001 min
Response: 1869920
Conc: 20.80 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.464 min
Delta R.T.: 0.002 min
Response: 1933632
Conc: 22.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
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 021125.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	3.204	3.161	3.261	BB	338058	2821805	91.60%	5.016%
2	4.261	4.225	4.318	BB	314575	2860924	92.87%	5.085%
3	5.827	5.798	5.908	BB	328122	3080505	100.00%	5.476%
4	6.268	6.235	6.331	BB	288254	2826957	91.77%	5.025%
5	6.879	6.848	6.968	BB	283364	2905424	94.32%	5.165%
6	8.057	8.028	8.125	BB	256157	2729025	88.59%	4.851%
7	9.652	9.618	9.718	BB	241605	2752162	89.34%	4.892%
8	11.091	11.051	11.155	BB	240300	2750082	89.27%	4.888%
9	11.395	11.338	11.448	BV	285697	3019061	98.01%	5.367%
10	12.397	12.358	12.461	BB	223409	2613618	84.84%	4.646%
11	12.838	12.801	12.885	BB	183559	2213113	71.84%	3.934%
12	13.008	12.971	13.071	BB	210182	2552338	82.85%	4.537%
13	13.592	13.558	13.645	BB	211199	2514482	81.63%	4.470%
14	14.694	14.655	14.755	BB	196198	2489195	80.80%	4.425%
15	15.712	15.665	15.778	BB	190792	2451970	79.60%	4.358%
16	16.661	16.598	16.725	BB	181305	2473080	80.28%	4.396%
17	17.548	17.468	17.591	BB	189878	2604736	84.56%	4.630%
18	18.379	18.298	18.428	BV	178580	2576732	83.65%	4.580%
19	19.162	19.121	19.228	BB	164314	2275964	73.88%	4.046%
20	19.901	19.851	19.933	BV	124554	1942697	63.06%	3.453%
21	20.612	20.551	20.662	BV	113774	1869920	60.70%	3.324%
22	21.464	21.391	21.548	BV	82303	1933632	62.77%	3.437%
			Sum of corrected areas:			56257421		

Aliphatic EPH 021125.M Sat Mar 01 01:25:09 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068341.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:50
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: Mar 05 05:26:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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)	140.677	141.090 E3	-0.3	100	0.00
2	T	n-Decane (C10)	141.671	143.046 E3	-1.0	100	0.00
3	T	A~Naphthalene (C11.7)	153.034	154.025 E3	-0.6	100	0.00
4	T	n-Dodecane (C12)	140.758	141.348 E3	-0.4	100	0.00
5	T	A~2-methylnaphthalene (C12.	144.828	145.271 E3	-0.3	99	0.00
6	T	n-Tetradecane (C14)	136.344	136.451 E3	-0.1	100	0.00
7	T	n-Hexadecane (C16)	136.965	137.608 E3	-0.5	100	0.00
8	T	n-Octadecane (C18)	136.758	137.504 E3	-0.5	100	0.00
9	S	ortho-Terphenyl (SURR)	153.444	150.953 E3	1.6	98	0.00
10	T	n-Eicosane (C20)	130.287	130.681 E3	-0.3	100	0.00
11	T	n-Heneicosane (C21)	127.847	127.617 E3	0.2	100	0.00
12	S	1-chlorooctadecane (SURR)	112.474	110.656 E3	1.6	98	0.00
13	T	n-Docosane (C22)	126.028	125.724 E3	0.2	100	0.00
14	T	n-Tetracosane (C24)	124.377	124.460 E3	-0.1	100	0.00
15	T	n-Hexacosane (C26)	121.593	122.598 E3	-0.8	101	0.00
16	T	n-Octacosane (C28)	118.767	122.450 E3	-3.1	103	0.00
17	T	n-Tricontane (C30)	120.366	129.544 E3	-7.6	108	0.00
18	T	n-Dotriacontane (C32)	116.067	128.058 E3	-10.3	111	0.00
19	T	n-Tetratriacontane (C34)	108.059	113.798 E3	-5.3	106	0.00
20	T	n-Hexatriacontane (C36)	96.169	97.135 E3	-1.0	101	0.00
21	T	n-Octatriacontane (C38)	89.898	93.496 E3	-4.0	104	0.00
22	T	n-Tetracontane (C40)	86.520	96.682 E3	-11.7	112	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 : FD022725AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049114.D**						
Aromatic C10-C12	6298689.000	40.000	4.076	5.794	157467.225	159020.606	0.977
Aromatic C12-C16	9637650.000	60.000	5.795	8.397	160627.500	160935.866	0.192
Aromatic C16-C21	11767518.000	80.000	8.398	12.661	147093.975	153359.309	4.085
Aromatic C21-C36	25141948.000	180.000	12.662	18.071	139677.489	143114.753	2.402
Aromatic EPH	52845805.000	360.000	4.076	18.071	146793.903	150128.823	2.221

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:	27 Feb 2025 08:35
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049114.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6298689.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.397	9637650.000	60.000	ug/ml
Aromatic C16-C21	8.398	12.661	11767518.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.071	25141948.000	180.000	ug/ml
Aromatic EPH	4.076	18.071	52845805.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049114.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 08:35
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

Integration File: autoint1.e
Quant Time: Feb 28 01:24:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.353	2835879	19.816 ug/ml
	Spiked Amount 50.000		Recovery = 39.63%	
6)	S 2-Flurobiphenyl (SURR)	8.205	1696777	19.301 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 38.60%	
11)	S ortho-Terphenyl (SURR)	11.234	3254119	20.115 ug/ml
	Spiked Amount 50.000		Recovery = 40.23%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	3129961	19.654 ug/ml
2)	T Naphthalene (C11.7)	5.694	3168728	19.956 ug/ml
3)	T 2-Methylnaphthalene (...	6.740	3132399	20.119 ug/ml
5)	T Acenaphthylene (C15.06)	8.004	3201654	19.690 ug/ml
7)	T Acenaphthene (C15.5)	8.297	3303597	20.082 ug/ml
8)	T Flouorene (C16.55)	9.077	3097250	19.646 ug/ml
9)	T Phenanthrene (C19.36)	10.464	3016596	20.017 ug/ml
10)	T Anthracene (C19.43)	10.542	2640174	17.481 ug/ml
12)	T Fluoranthene (C21.85)	12.268	3082957	19.978 ug/ml
13)	T Pyrene (C20.8)	12.561	3013498	19.561 ug/ml
14)	T Benzo[a]anthracene (C...	14.431	2576874	19.612 ug/ml
15)	T Chrysene (C27.41)	14.471	3205576	19.826 ug/ml
16)	T benzo[b]fluoranthene ...	15.978	2751715	19.999 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.009	3150651	19.948 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.358	2640040	19.450 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.725	1896060	17.351 ug/ml
20)	T Dibenz[a,h]anthracene...	17.765	3093462	19.940 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.971	2744613	18.935 ug/ml

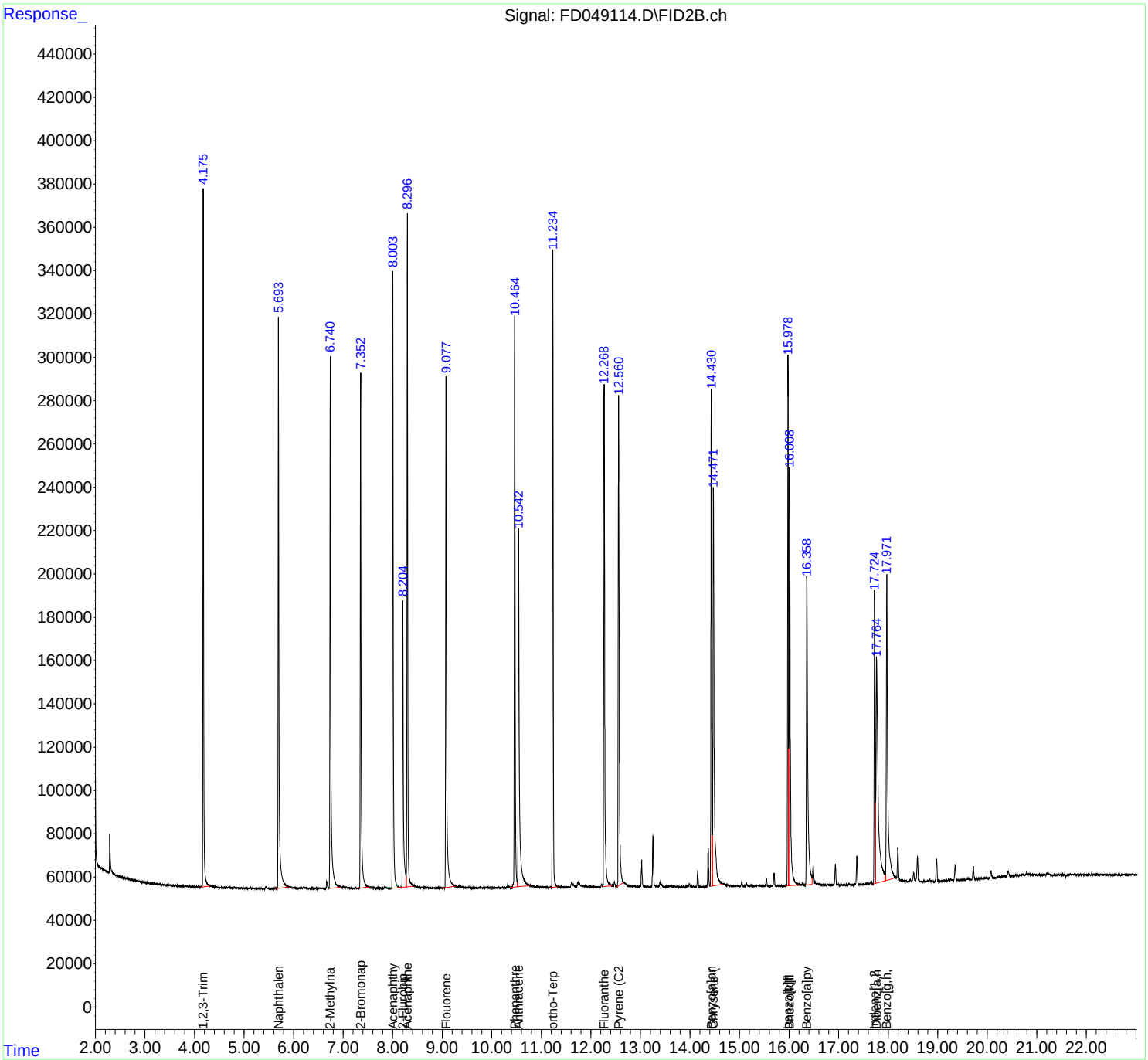
(f)=RT Delta > 1/2 Window (m)=manual int.

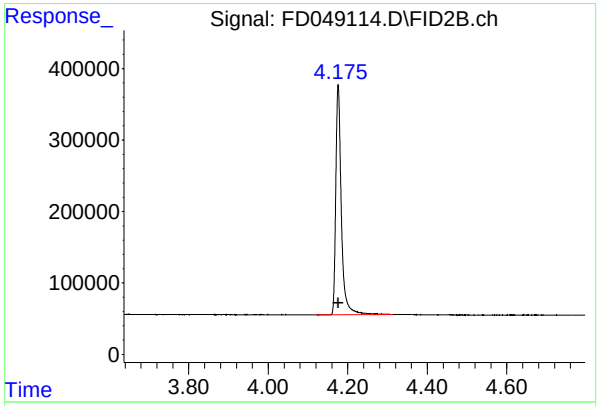
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049114.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 08:35
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Feb 28 01:24:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

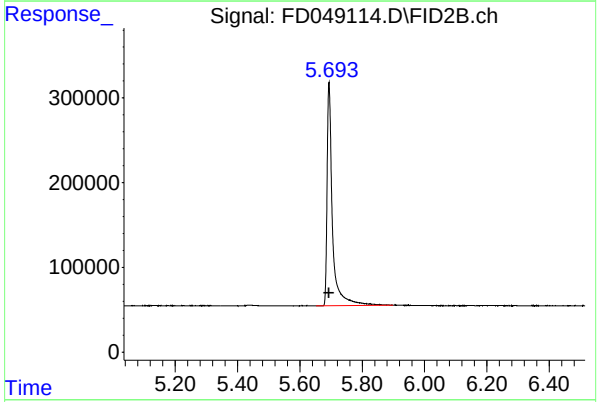




#1 1,2,3-Trimethylbenzene (C10.1)

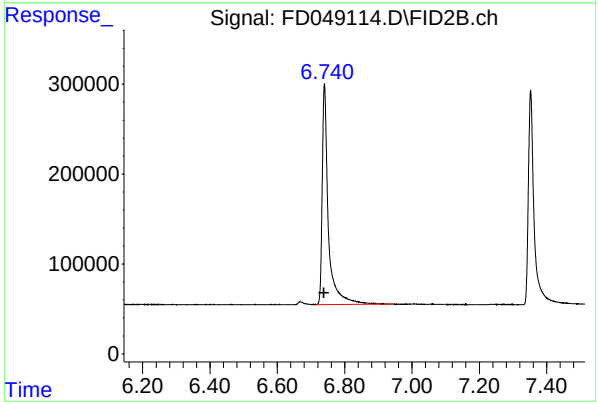
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 3129961
Conc: 19.65 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



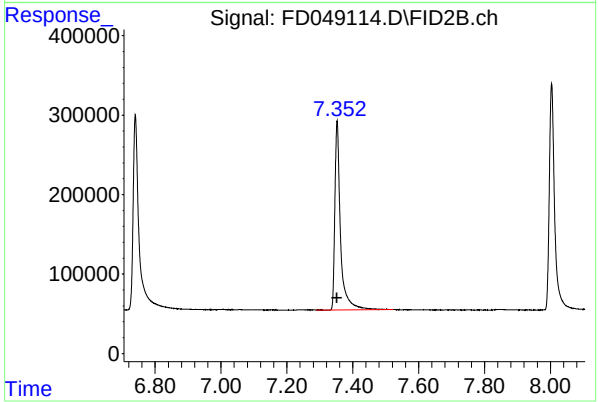
#2 Naphthalene (C11.7)

R.T.: 5.694 min
Delta R.T.: 0.000 min
Response: 3168728
Conc: 19.96 ug/ml



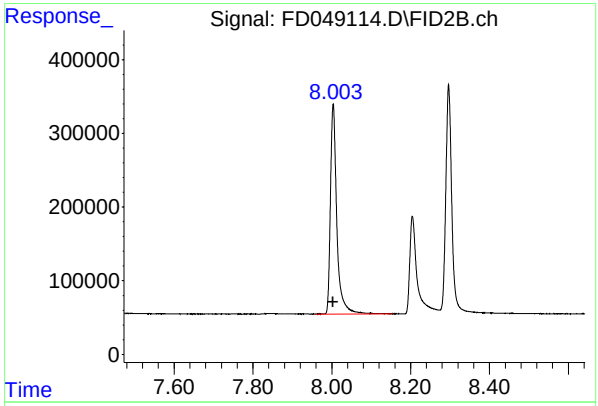
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.001 min
Response: 3132399
Conc: 20.12 ug/ml



#4 2-Bromonaphthalene (SURR)

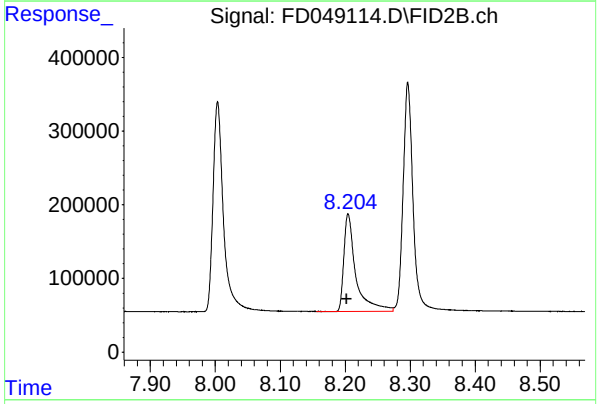
R.T.: 7.353 min
Delta R.T.: 0.001 min
Response: 2835879
Conc: 19.82 ug/ml



#5 Acenaphthylene (C15.06)

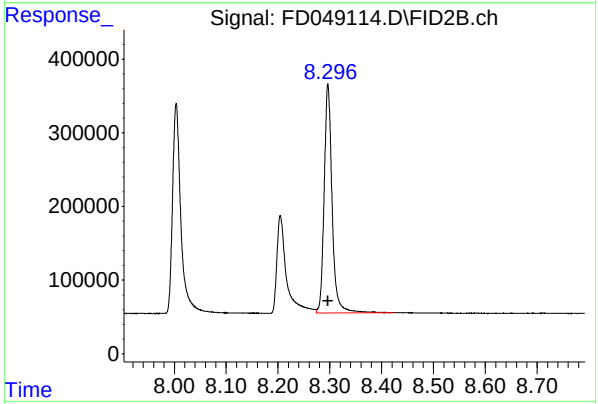
R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 3201654
Conc: 19.69 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



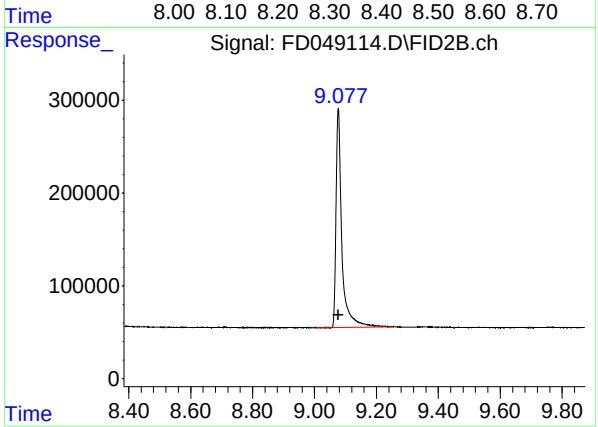
#6 2-Flurobiphenyl (SURR)

R.T.: 8.205 min
Delta R.T.: 0.002 min
Response: 1696777
Conc: 19.30 ug/ml



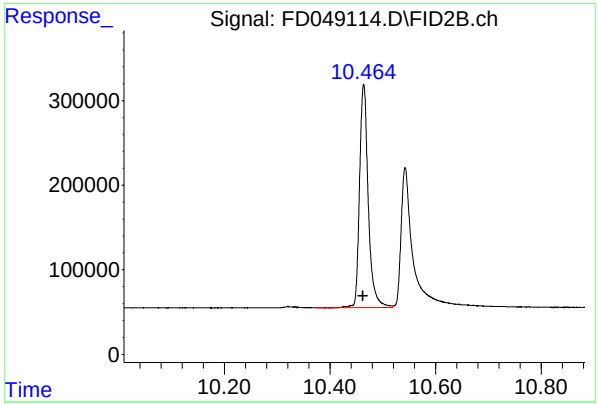
#7 Acenaphthene (C15.5)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 3303597
Conc: 20.08 ug/ml



#8 Flouorene (C16.55)

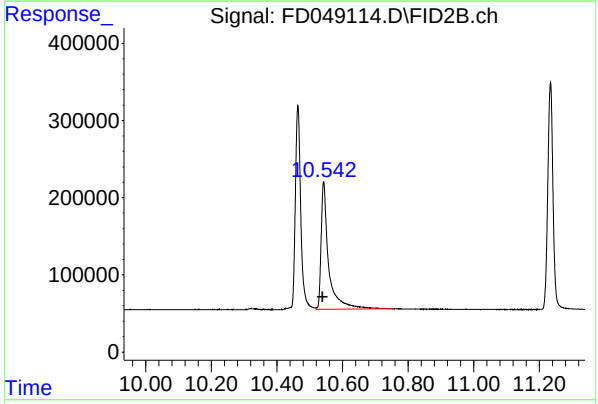
R.T.: 9.077 min
Delta R.T.: 0.000 min
Response: 3097250
Conc: 19.65 ug/ml



#9 Phenanthrene (C19.36)

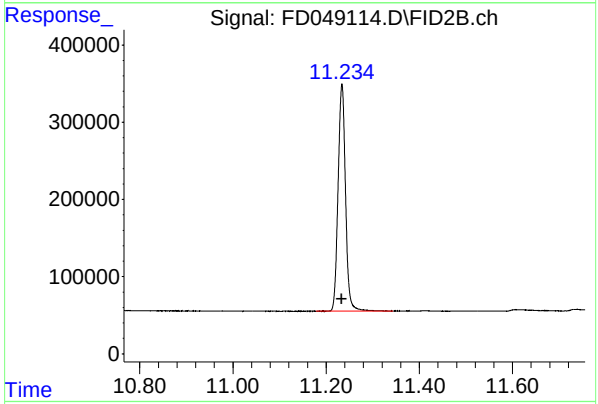
R.T.: 10.464 min
Delta R.T.: 0.001 min
Response: 3016596
Conc: 20.02 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



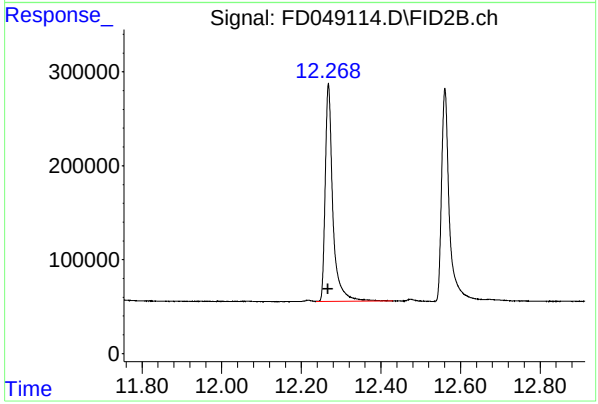
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.003 min
Response: 2640174
Conc: 17.48 ug/ml



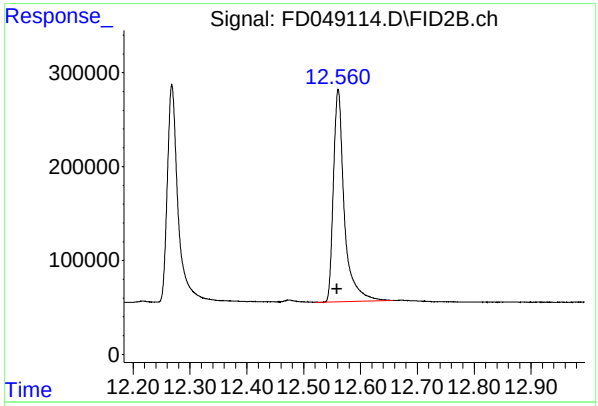
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 3254119
Conc: 20.12 ug/ml



#12 Fluoranthene (C21.85)

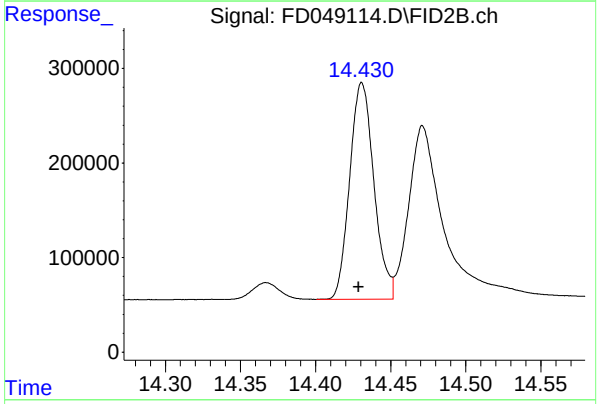
R.T.: 12.268 min
Delta R.T.: 0.001 min
Response: 3082957
Conc: 19.98 ug/ml



#13 Pyrene (C20.8)

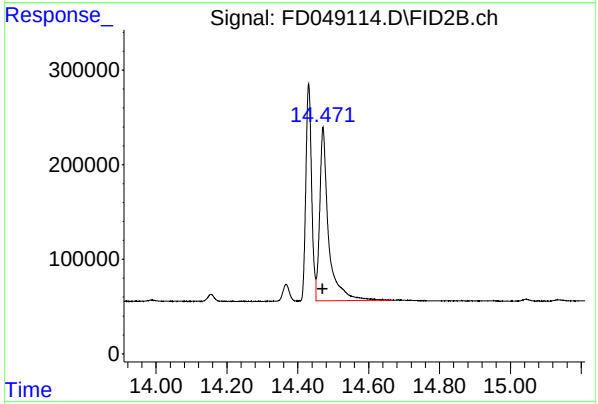
R.T.: 12.561 min
Delta R.T.: 0.002 min
Response: 3013498
Conc: 19.56 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



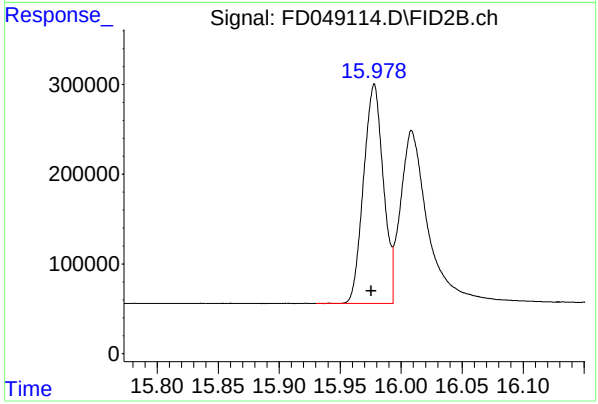
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.002 min
Response: 2576874
Conc: 19.61 ug/ml



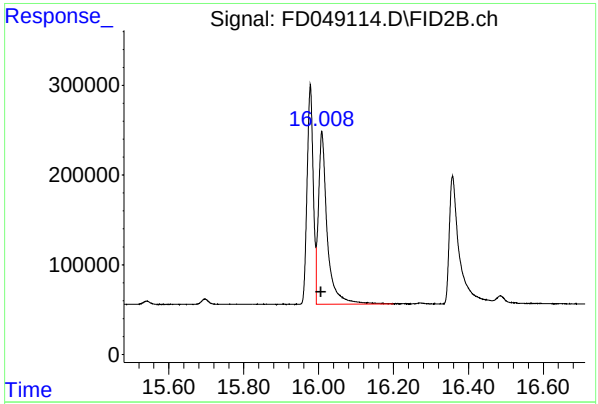
#15 Chrysene (C27.41)

R.T.: 14.471 min
Delta R.T.: 0.002 min
Response: 3205576
Conc: 19.83 ug/ml



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

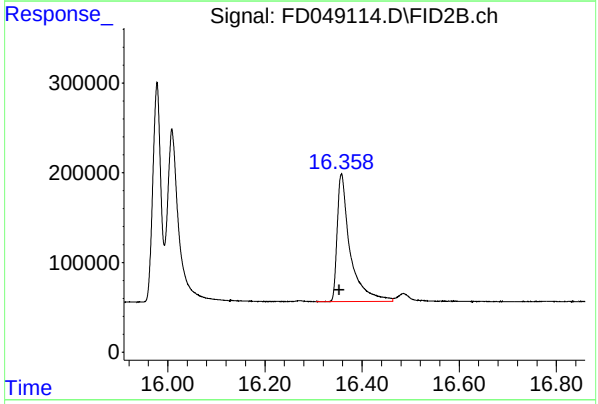
R.T.: 15.978 min
Delta R.T.: 0.002 min
Response: 2751715
Conc: 20.00 ug/ml



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

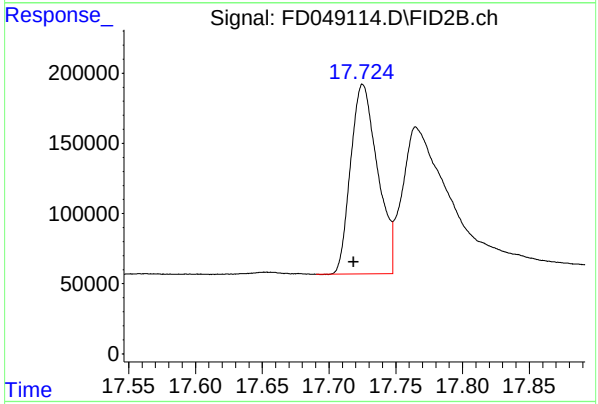
R.T.: 16.009 min
Delta R.T.: 0.003 min
Response: 3150651
Conc: 19.95 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



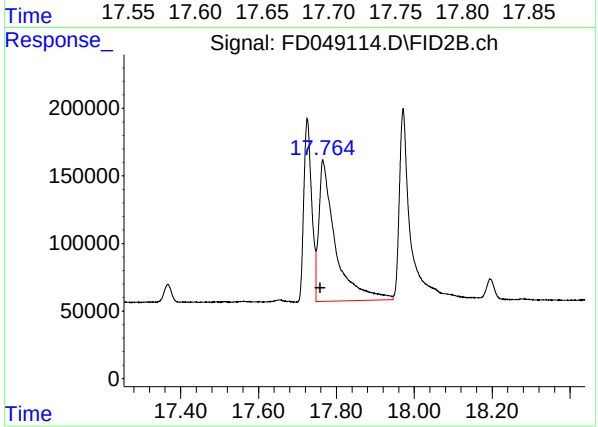
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.358 min
Delta R.T.: 0.004 min
Response: 2640040
Conc: 19.45 ug/ml



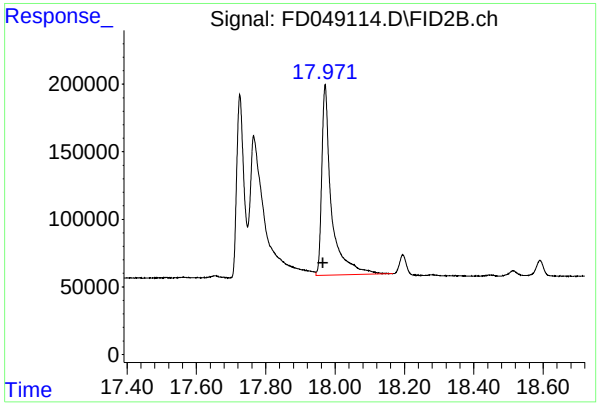
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.725 min
Delta R.T.: 0.007 min
Response: 1896060
Conc: 17.35 ug/ml



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

R.T.: 17.765 min
Delta R.T.: 0.006 min
Response: 3093462
Conc: 19.94 ug/ml



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

R.T.: 17.971 min
Delta R.T.: 0.006 mi
Response: 2744613
Conc: 18.93 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049114.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 08:35
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 021125.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	4.176	4.120	4.314	BB	322180	3129961	94.74%	5.162%
2	5.694	5.652	5.899	BB	263352	3168728	95.92%	5.226%
3	6.740	6.715	6.944	PB	245255	3132399	94.82%	5.166%
4	7.353	7.289	7.522	BB	238265	2835879	85.84%	4.677%
5	8.004	7.960	8.155	BB	285000	3201654	96.91%	5.280%
6	8.205	8.155	8.274	BV	131835	1696777	51.36%	2.798%
7	8.297	8.274	8.422	VB	309923	3303597	100.00%	5.449%
8	9.077	9.005	9.254	BB	236092	3097250	93.75%	5.108%
9	10.464	10.374	10.519	BV	263761	3016596	91.31%	4.975%
10	10.542	10.519	10.754	VB	165391	2640174	79.92%	4.354%
11	11.234	11.179	11.344	BB	294087	3254119	98.50%	5.367%
12	12.268	12.237	12.430	VB	231514	3082957	93.32%	5.085%
13	12.561	12.522	12.657	BV	226512	3013498	91.22%	4.970%
14	14.431	14.400	14.452	VV	229500	2576874	78.00%	4.250%
15	14.471	14.452	14.669	VV	183135	3205576	97.03%	5.287%
16	15.978	15.930	15.993	BV	245442	2751715	83.29%	4.538%
17	16.009	15.993	16.198	VB	192903	3150651	95.37%	5.196%
18	16.358	16.305	16.463	BV	142263	2640040	79.91%	4.354%
19	17.725	17.690	17.748	BV	135279	1896060	57.39%	3.127%
20	17.765	17.748	17.945	VV	104402	3093462	93.64%	5.102%
21	17.971	17.945	18.167	VV	141379	2744613	83.08%	4.527%
			Sum of corrected areas:			60632579		

Aromatic EPH 021125.M Fri Feb 28 01:55:56 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049114.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 08:35
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: Feb 28 01:24:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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	159.254	156.498	E3	1.7	100	0.00
2	T	Naphthalene (C11.7)	158.788	158.436	E3	0.2	101	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	156.620	E3	-0.6	101	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	141.794	E3	0.9	100	0.00
5	T	Acenaphthylene (C15.06)	162.606	160.083	E3	1.6	100	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	84.839	E3	3.5	95	0.00
7	T	Acenaphthene (C15.5)	164.509	165.180	E3	-0.4	103	0.00
8	T	Flouorene (C16.55)	157.649	154.862	E3	1.8	99	0.00
9	T	Phenanthrene (C19.36)	150.701	150.830	E3	-0.1	101	0.00
10	T	Anthracene (C19.43)	151.028	132.009	E3	12.6	88	0.00
11	S	ortho-Terphenyl (SURR)	161.774	162.706	E3	-0.6	102	0.00
12	T	Fluoranthene (C21.85)	154.315	154.148	E3	0.1	100	0.00
13	T	Pyrene (C20.8)	154.058	150.675	E3	2.2	100	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	128.844	E3	1.9	95	0.00
15	T	Chrysene (C27.41)	161.687	160.279	E3	0.9	103	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	137.586	E3	0.0	98	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	157.533	E3	0.3	104	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	132.002	E3	2.8	98	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	94.803	E3	13.2	88	0.00
20	T	Dibenz[a,h]anthracene (C30.	155.140	154.673	E3	0.3	100	0.00
21	T	Benzo[g,h,i]perylene (C34.0	144.951	137.231	E3	5.3	97	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 : FD022725AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049120.D**						
Aromatic C10-C12	6229425.000	40.000	4.076	5.794	155735.625	159020.606	2.066
Aromatic C12-C16	9514645.000	60.000	5.795	8.397	158577.417	160935.866	1.465
Aromatic C16-C21	11756074.000	80.000	8.398	12.661	146950.925	153359.309	4.179
Aromatic C21-C36	25098023.000	180.000	12.662	18.071	139433.461	143114.753	2.572
Aromatic EPH	52598167.000	360.000	4.076	18.071	146106.019	150128.823	2.680

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:	27 Feb 2025 13:27
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049120.D	Misc:	
Instrument:	FID_D	ALS Vial:	53
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6229425.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.397	9514645.000	60.000	ug/ml
Aromatic C16-C21	8.398	12.661	11756074.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.071	25098023.000	180.000	ug/ml
Aromatic EPH	4.076	18.071	52598167.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049120.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 13:27
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

Integration File: autoint1.e
Quant Time: Feb 28 01:27:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.353	2797961	19.551 ug/ml
Spiked Amount	50.000		Recovery =	39.10%
6) S	2-Flurobiphenyl (SURR)	8.205	1681726	19.130 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	38.26%
11) S	ortho-Terphenyl (SURR)	11.234	3233823	19.990 ug/ml
Spiked Amount	50.000		Recovery =	39.98%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3104083	19.491 ug/ml
2) T	Naphthalene (C11.7)	5.694	3125342	19.683 ug/ml
3) T	2-Methylnaphthalene (...	6.741	3098648	19.902 ug/ml
5) T	Acenaphthylene (C15.06)	8.004	3151413	19.381 ug/ml
7) T	Acenaphthene (C15.5)	8.297	3264584	19.844 ug/ml
8) T	Flouorene (C16.55)	9.078	3082178	19.551 ug/ml
9) T	Phenanthrene (C19.36)	10.464	3019229	20.035 ug/ml
10) T	Anthracene (C19.43)	10.543	2633827	17.439 ug/ml
12) T	Fluoranthene (C21.85)	12.268	3086798	20.003 ug/ml
13) T	Pyrene (C20.8)	12.560	3020840	19.608 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	2581314	19.646 ug/ml
15) T	Chrysene (C27.41)	14.472	3225972	19.952 ug/ml
16) T	benzo[b]fluoranthene ...	15.979	2759362	20.054 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.010	3129958	19.817 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.359	2619384	19.298 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.726	1884461	17.245 ug/ml
20) T	Dibenz[a,h]anthracene...	17.767	3072254	19.803 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.971	2738520	18.893 ug/ml

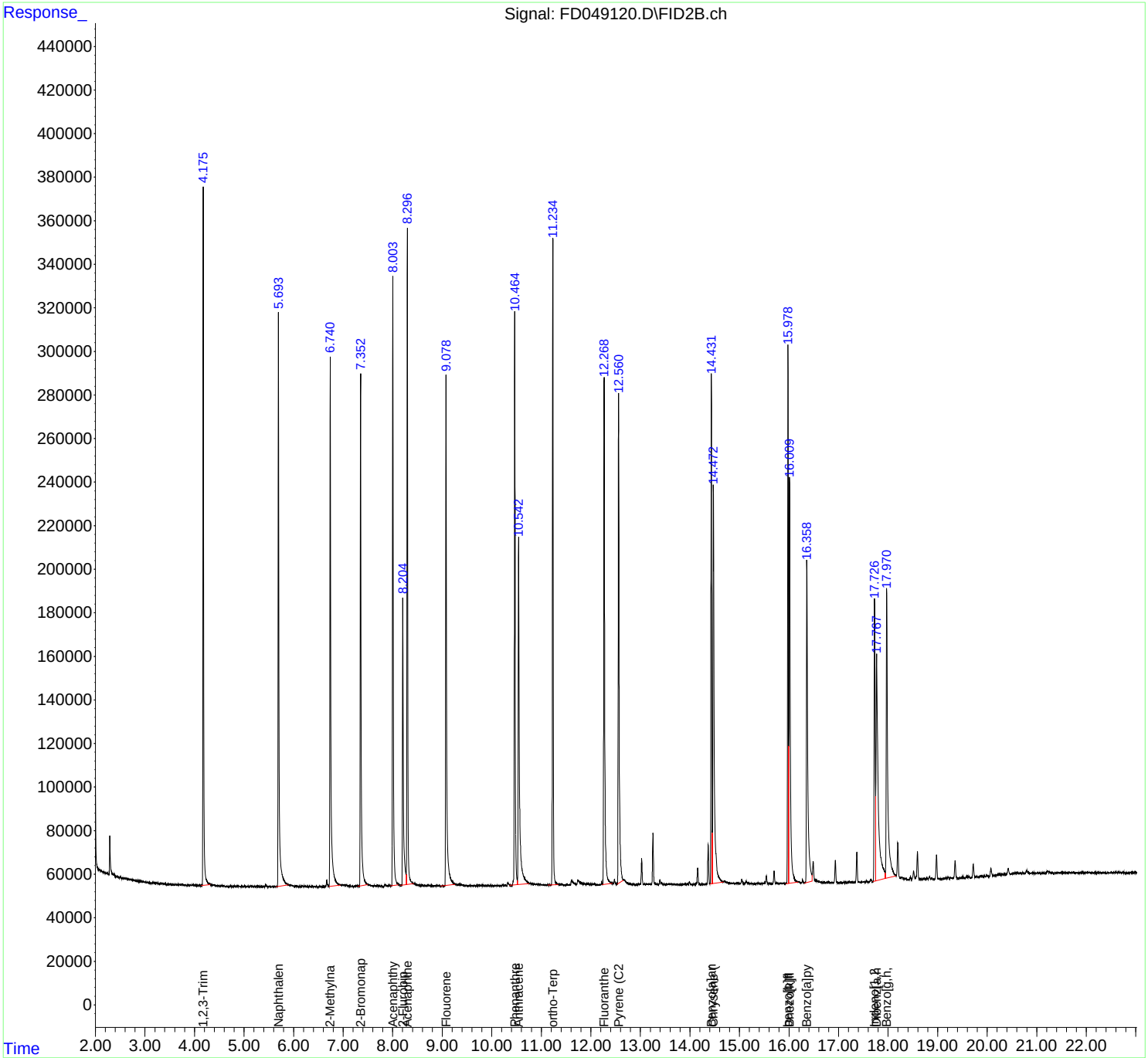
(f)=RT Delta > 1/2 Window (m)=manual int.

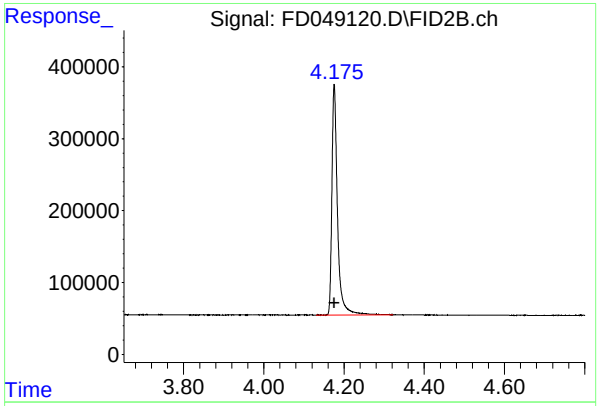
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049120.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 13:27
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 53 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Feb 28 01:27:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

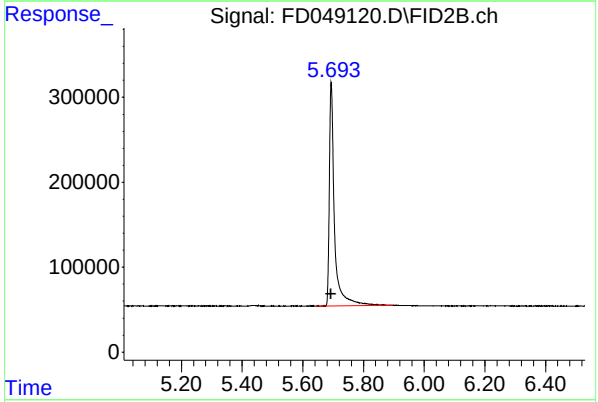




#1 1,2,3-Trimethylbenzene (C10.1)

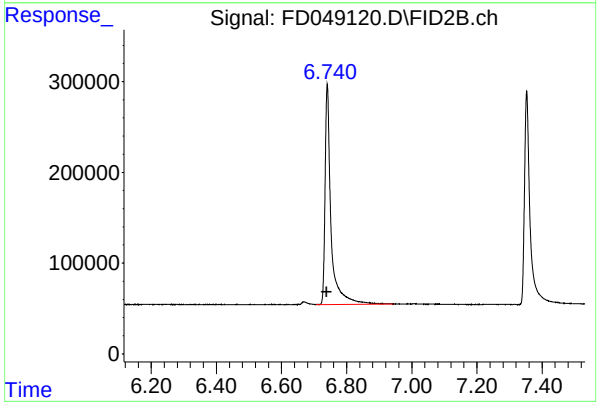
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 3104083
Conc: 19.49 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



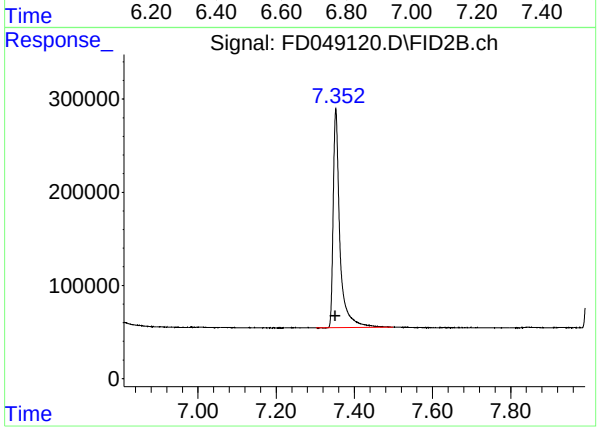
#2 Naphthalene (C11.7)

R.T.: 5.694 min
Delta R.T.: 0.000 min
Response: 3125342
Conc: 19.68 ug/ml



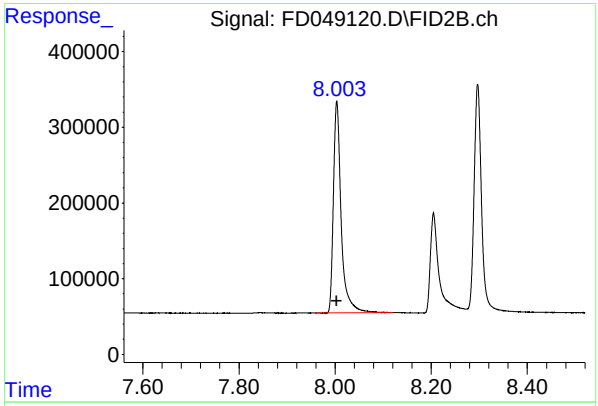
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.741 min
Delta R.T.: 0.002 min
Response: 3098648
Conc: 19.90 ug/ml



#4 2-Bromonaphthalene (SURR)

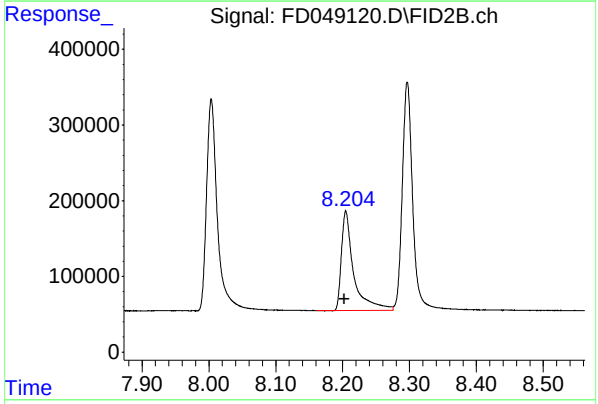
R.T.: 7.353 min
Delta R.T.: 0.001 min
Response: 2797961
Conc: 19.55 ug/ml



#5 Acenaphthylene (C15.06)

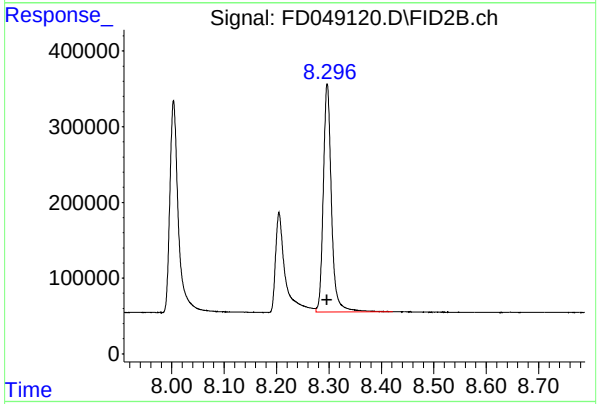
R.T.: 8.004 min
Delta R.T.: 0.000 min
Response: 3151413
Conc: 19.38 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



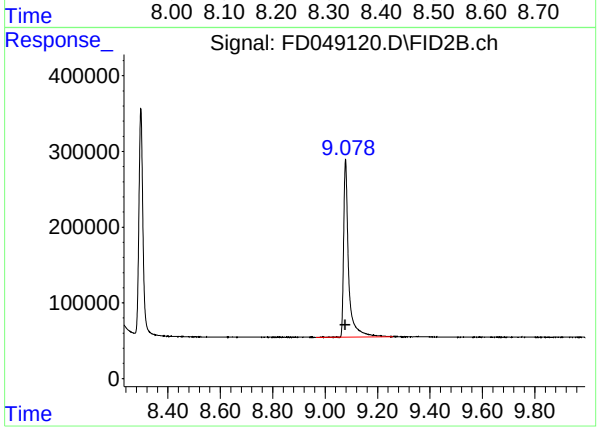
#6 2-Flurobiphenyl (SURR)

R.T.: 8.205 min
Delta R.T.: 0.003 min
Response: 1681726
Conc: 19.13 ug/ml



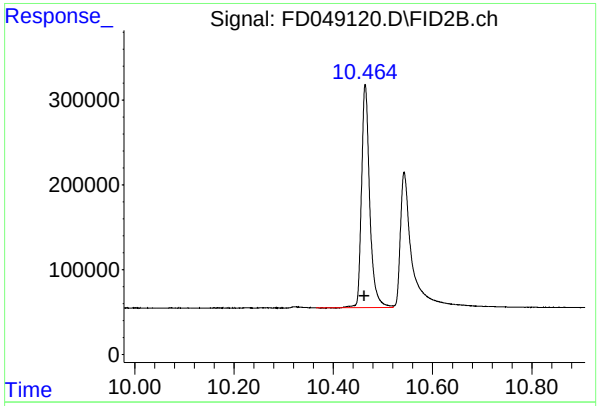
#7 Acenaphthene (C15.5)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 3264584
Conc: 19.84 ug/ml



#8 Flouorene (C16.55)

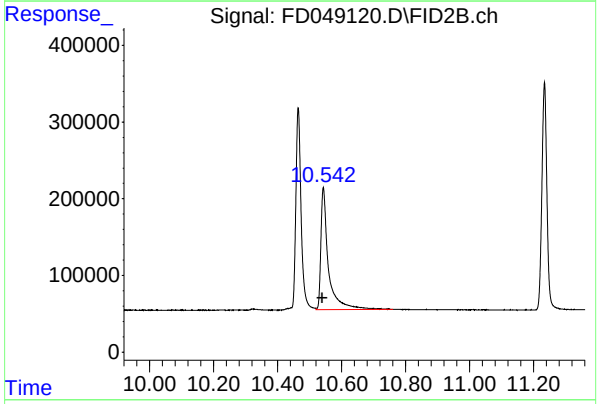
R.T.: 9.078 min
Delta R.T.: 0.002 min
Response: 3082178
Conc: 19.55 ug/ml



#9 Phenanthrene (C19.36)

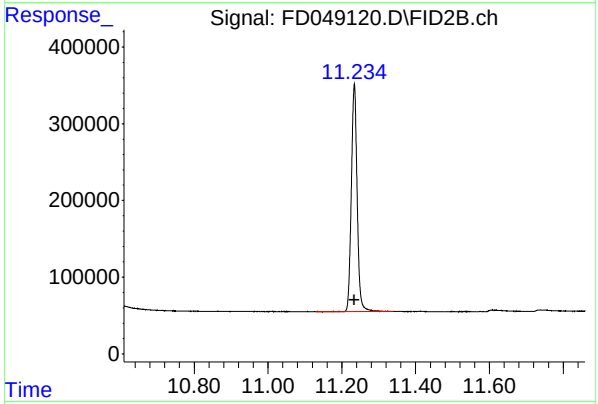
R.T.: 10.464 min
Delta R.T.: 0.002 min
Response: 3019229
Conc: 20.03 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



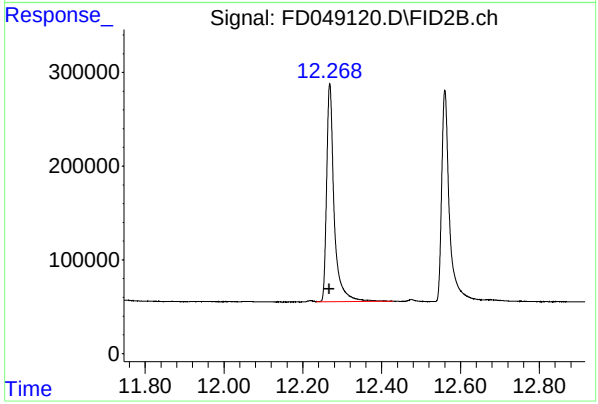
#10 Anthracene (C19.43)

R.T.: 10.543 min
Delta R.T.: 0.003 min
Response: 2633827
Conc: 17.44 ug/ml



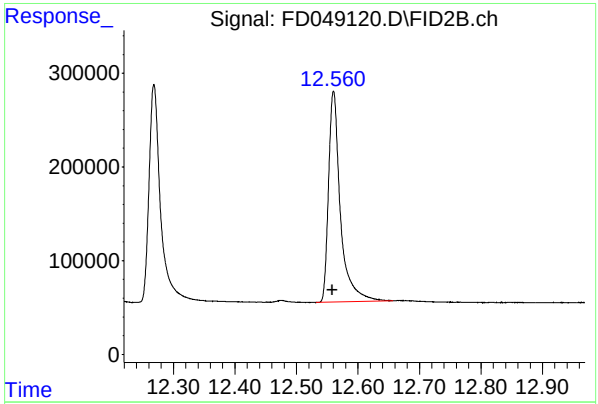
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 3233823
Conc: 19.99 ug/ml



#12 Fluoranthene (C21.85)

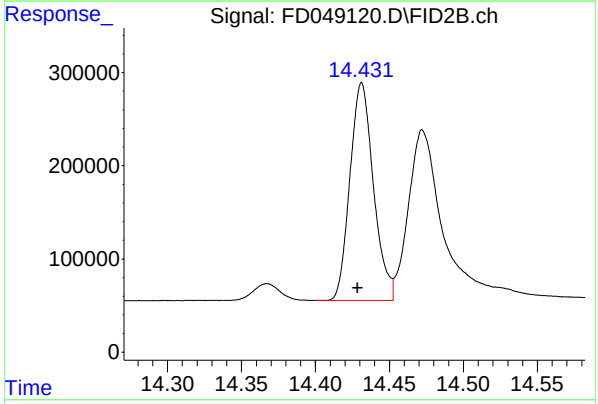
R.T.: 12.268 min
Delta R.T.: 0.001 min
Response: 3086798
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

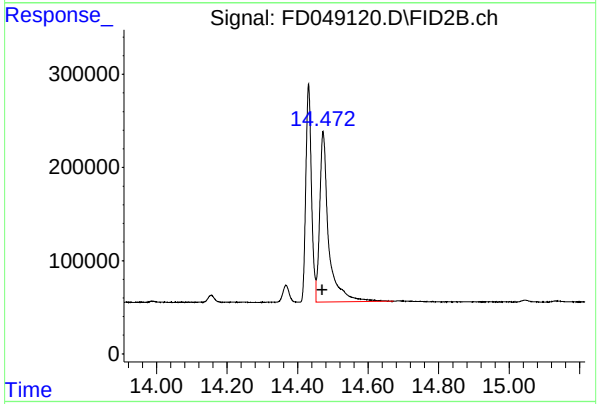
R.T.: 12.560 min
Delta R.T.: 0.002 min
Response: 3020840
Conc: 19.61 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



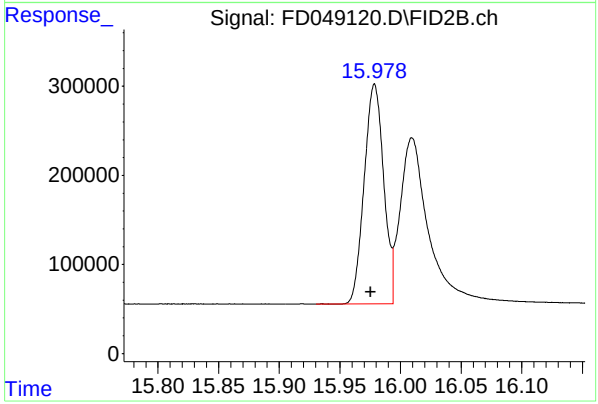
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.003 min
Response: 2581314
Conc: 19.65 ug/ml



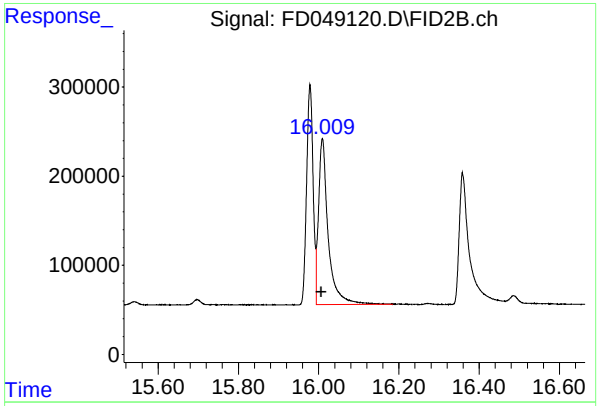
#15 Chrysene (C27.41)

R.T.: 14.472 min
Delta R.T.: 0.003 min
Response: 3225972
Conc: 19.95 ug/ml



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

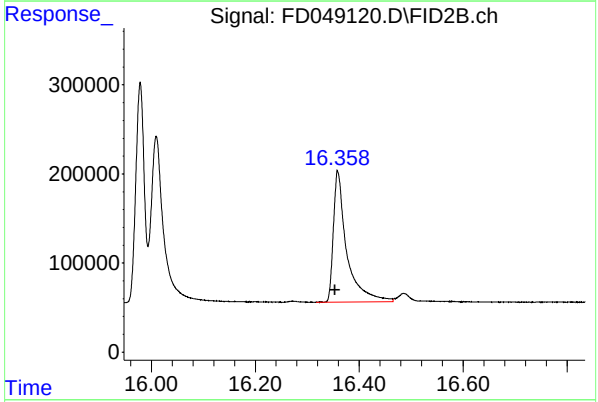
R.T.: 15.979 min
Delta R.T.: 0.003 min
Response: 2759362
Conc: 20.05 ug/ml



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

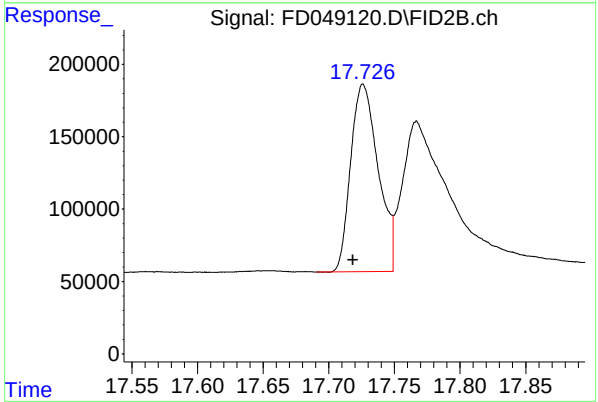
R.T.: 16.010 min
Delta R.T.: 0.003 min
Response: 3129958
Conc: 19.82 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



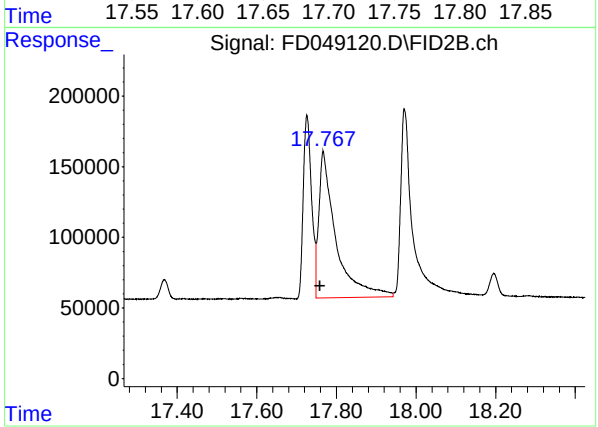
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.359 min
Delta R.T.: 0.005 min
Response: 2619384
Conc: 19.30 ug/ml



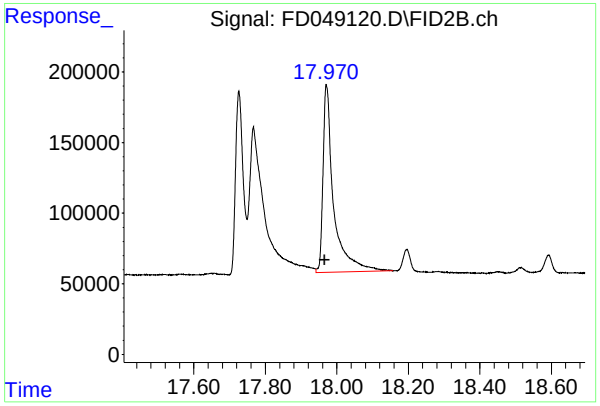
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.726 min
Delta R.T.: 0.008 min
Response: 1884461
Conc: 17.24 ug/ml



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

R.T.: 17.767 min
Delta R.T.: 0.008 min
Response: 3072254
Conc: 19.80 ug/ml



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

R.T.: 17.971 min
Delta R.T.: 0.005 mi
Response: 2738520
Conc: 18.89 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049120.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 13:27
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 021125.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	4.176	4.130	4.322	BB	320719	3104083	95.08%	5.147%
2	5.694	5.644	5.897	BB	263134	3125342	95.73%	5.182%
3	6.741	6.706	6.942	PB	242867	3098648	94.92%	5.138%
4	7.353	7.302	7.499	BB	234464	2797961	85.71%	4.639%
5	8.004	7.960	8.120	BB	279538	3151413	96.53%	5.225%
6	8.205	8.160	8.275	BV	131242	1681726	51.51%	2.788%
7	8.297	8.275	8.422	VB	301403	3264584	100.00%	5.413%
8	9.078	8.965	9.259	BB	234793	3082178	94.41%	5.110%
9	10.465	10.365	10.520	BV	263674	3019229	92.48%	5.006%
10	10.543	10.520	10.760	VB	159325	2633827	80.68%	4.367%
11	11.234	11.130	11.339	BB	296346	3233823	99.06%	5.362%
12	12.268	12.234	12.429	VB	232788	3086798	94.55%	5.118%
13	12.560	12.532	12.657	BV	225235	3020840	92.53%	5.009%
14	14.431	14.400	14.452	PV	233816	2581314	79.07%	4.280%
15	14.472	14.452	14.670	VV	182986	3225972	98.82%	5.349%
16	15.979	15.930	15.994	BV	247136	2759362	84.52%	4.575%
17	16.010	15.994	16.185	VB	186419	3129958	95.88%	5.190%
18	16.359	16.317	16.465	BV	146825	2619384	80.24%	4.343%
19	17.726	17.690	17.749	BV	129741	1884461	57.72%	3.125%
20	17.767	17.749	17.942	VV	103742	3072254	94.11%	5.094%
21	17.971	17.942	18.157	VV	132863	2738520	83.89%	4.541%
			Sum of corrected areas:			60311677		

Aromatic EPH 021125.M Fri Feb 28 02:00:05 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049120.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 13:27
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: Feb 28 01:27:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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	159.254	155.204	E3	2.5	99	0.00
2	T	Naphthalene (C11.7)	158.788	156.267	E3	1.6	100	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	154.932	E3	0.5	100	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	139.898	E3	2.2	99	0.00
5	T	Acenaphthylene (C15.06)	162.606	157.571	E3	3.1	99	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	84.086	E3	4.4	94	0.00
7	T	Acenaphthene (C15.5)	164.509	163.229	E3	0.8	102	0.00
8	T	Flouorene (C16.55)	157.649	154.109	E3	2.2	99	0.00
9	T	Phenanthrene (C19.36)	150.701	150.961	E3	-0.2	101	0.00
10	T	Anthracene (C19.43)	151.028	131.691	E3	12.8	88	0.00
11	S	ortho-Terphenyl (SURR)	161.774	161.691	E3	0.1	102	0.00
12	T	Fluoranthene (C21.85)	154.315	154.340	E3	-0.0	101	0.00
13	T	Pyrene (C20.8)	154.058	151.042	E3	2.0	100	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	129.066	E3	1.8	95	0.00
15	T	Chrysene (C27.41)	161.687	161.299	E3	0.2	104	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	137.968	E3	-0.3	98	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	156.498	E3	0.9	103	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	130.969	E3	3.5	98	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	94.223	E3	13.8	88	0.00
20	T	Dibenz[a,h]anthracene (C30.	155.140	153.613	E3	1.0	99	0.00
21	T	Benzo[g,h,i]perylene (C34.0	144.951	136.926	E3	5.5	97	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 : FD022725AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049126.D**						
Aromatic C10-C12	6023865.000	40.000	4.076	5.794	150596.625	159020.606	5.297
Aromatic C12-C16	9168678.000	60.000	5.795	8.397	152811.300	160935.866	5.048
Aromatic C16-C21	11343539.000	80.000	8.398	12.661	141794.238	153359.309	7.541
Aromatic C21-C36	24057363.000	180.000	12.662	18.071	133652.017	143114.753	6.612
Aromatic EPH	50593445.000	360.000	4.076	18.071	140537.347	150128.823	6.389

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:	27 Feb 2025 17:45
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049126.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6023865.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.397	9168678.000	60.000	ug/ml
Aromatic C16-C21	8.398	12.661	11343539.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.071	24057363.000	180.000	ug/ml
Aromatic EPH	4.076	18.071	50593445.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049126.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:45
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 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Integration File: autoint1.e
Quant Time: Feb 28 01:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.353	2728919	19.069 ug/ml
Spiked Amount	50.000		Recovery =	38.14%
6) S	2-Flurobiphenyl (SURR)	8.205	1647523	18.741 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	37.48%
11) S	ortho-Terphenyl (SURR)	11.234	3139487	19.407 ug/ml
Spiked Amount	50.000		Recovery =	38.81%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	2992353	18.790 ug/ml
2) T	Naphthalene (C11.7)	5.694	3031512	19.092 ug/ml
3) T	2-Methylnaphthalene (...	6.740	3015137	19.366 ug/ml
5) T	Acenaphthylene (C15.06)	8.004	3001239	18.457 ug/ml
7) T	Acenaphthene (C15.5)	8.297	3152302	19.162 ug/ml
8) T	Flouorene (C16.55)	9.078	2966953	18.820 ug/ml
9) T	Phenanthrene (C19.36)	10.465	2891028	19.184 ug/ml
10) T	Anthracene (C19.43)	10.543	2491145	16.495 ug/mlm
12) T	Fluoranthene (C21.85)	12.268	2989893	19.375 ug/ml
13) T	Pyrene (C20.8)	12.561	2994413	19.437 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	2485881	18.920 ug/ml
15) T	Chrysene (C27.41)	14.472	2805670	17.353 ug/ml
16) T	benzo[b]fluoranthene ...	15.978	2629919	19.114 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.011	3133545	19.840 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.361	2394319	17.639 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.726	1822082	16.674 ug/ml
20) T	Dibenz[a,h]anthracene...	17.767	3259244	21.008 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.972	2536810	17.501 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049126.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:45
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

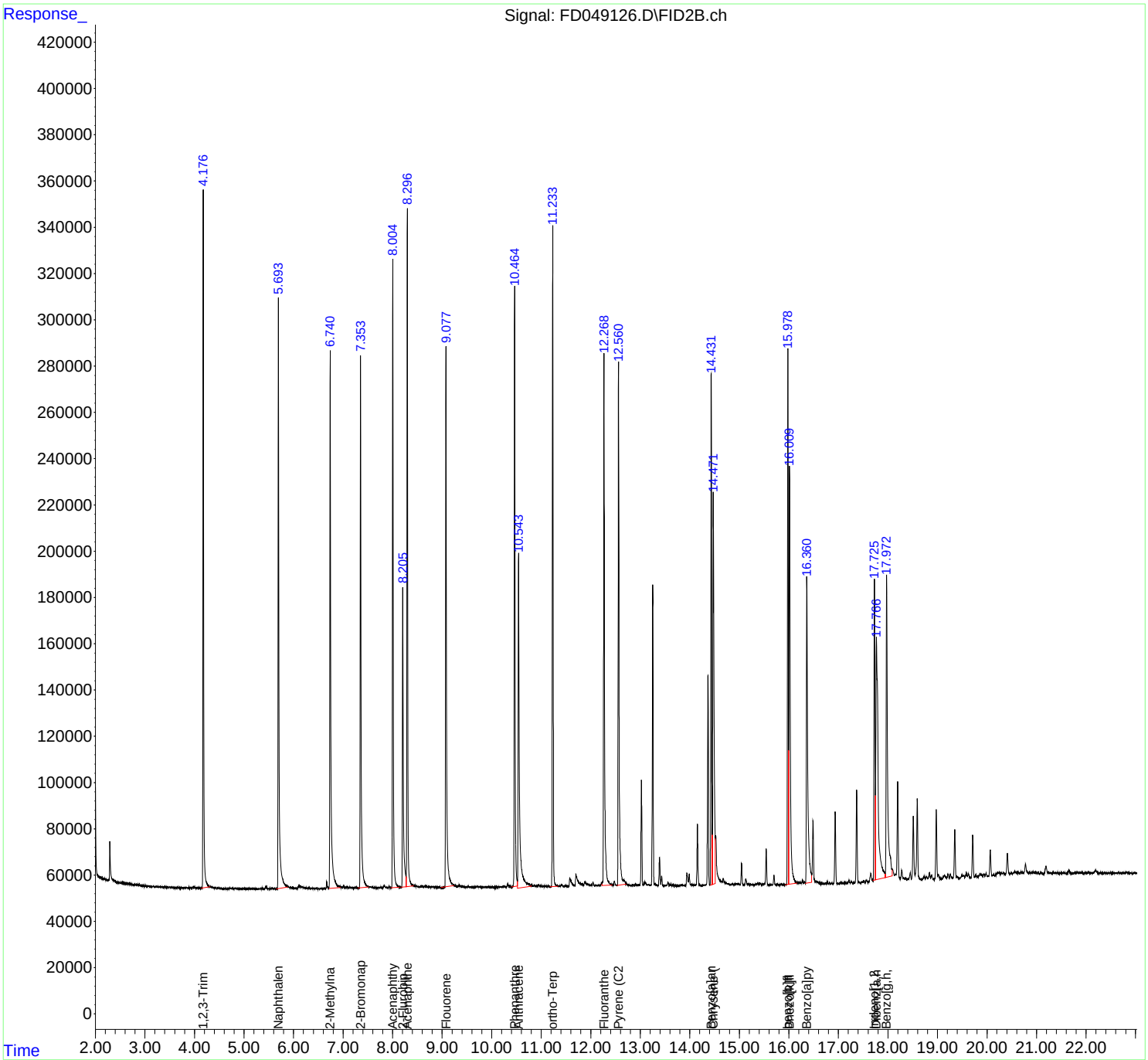
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

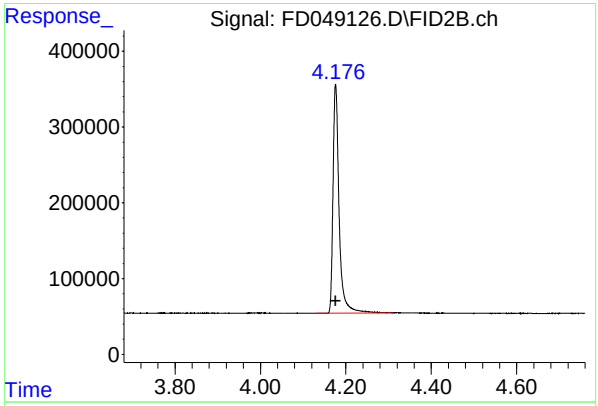
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Integration File: autoint1.e
Quant Time: Feb 28 01:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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





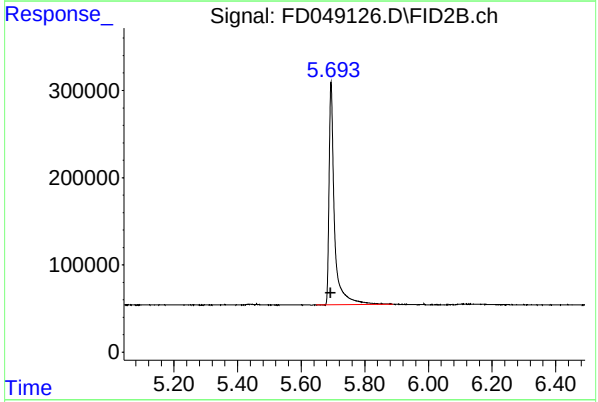
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 2992353
Conc: 18.79 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

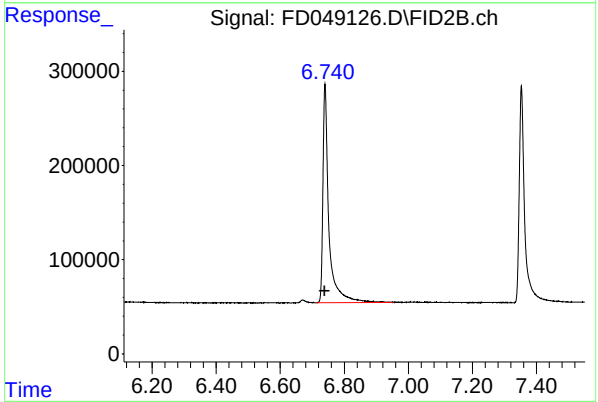
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



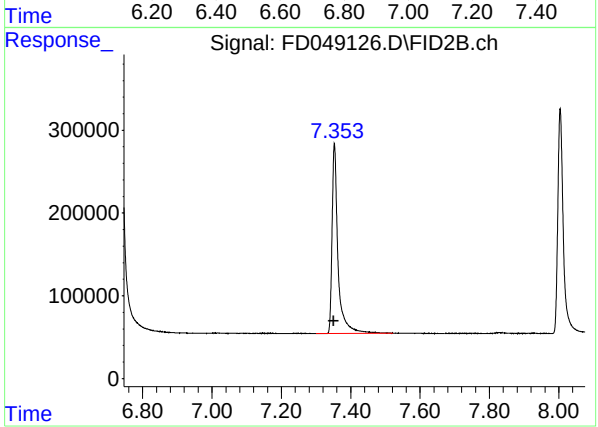
#2 Naphthalene (C11.7)

R.T.: 5.694 min
Delta R.T.: 0.001 min
Response: 3031512
Conc: 19.09 ug/ml



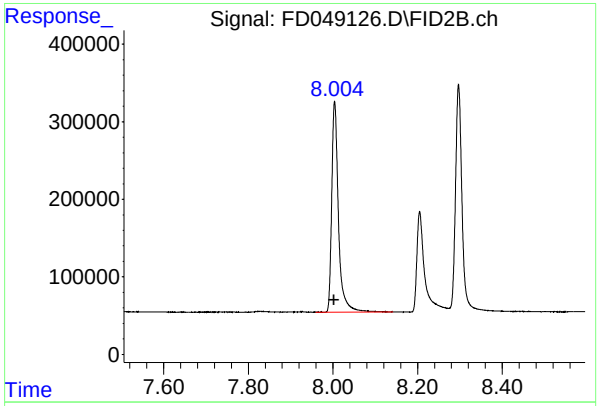
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.001 min
Response: 3015137
Conc: 19.37 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.353 min
Delta R.T.: 0.002 min
Response: 2728919
Conc: 19.07 ug/ml



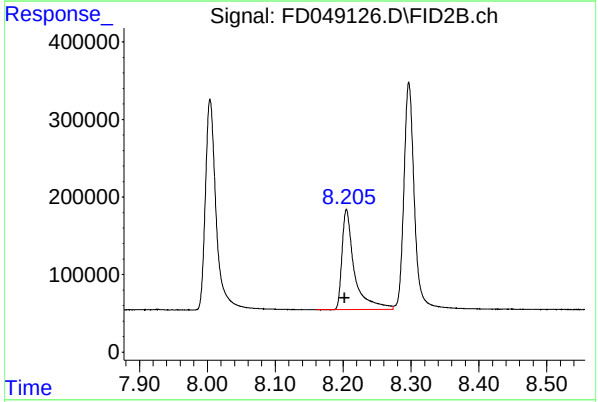
#5 Acenaphthylene (C15.06)

R.T.: 8.004 min
Delta R.T.: 0.001 min
Response: 3001239
Conc: 18.46 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

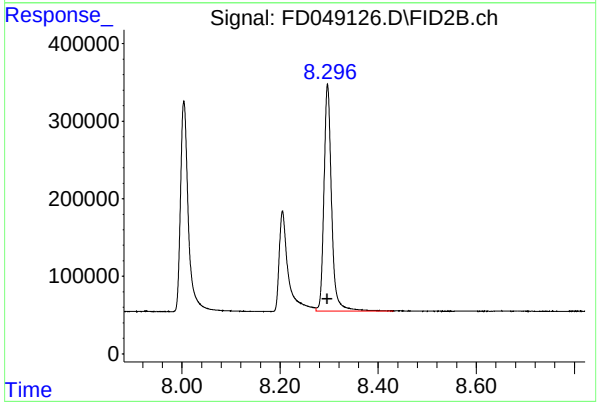
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



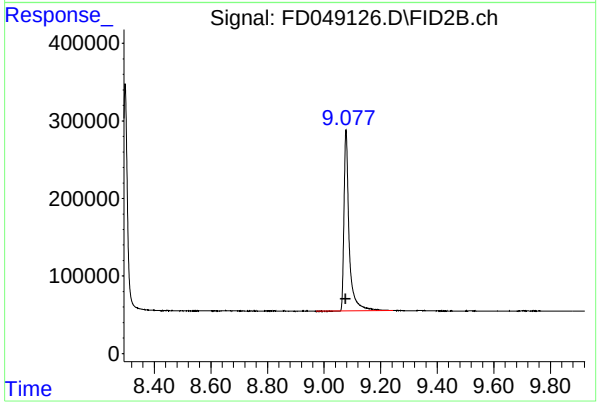
#6 2-Flurobiphenyl (SURR)

R.T.: 8.205 min
Delta R.T.: 0.003 min
Response: 1647523
Conc: 18.74 ug/ml



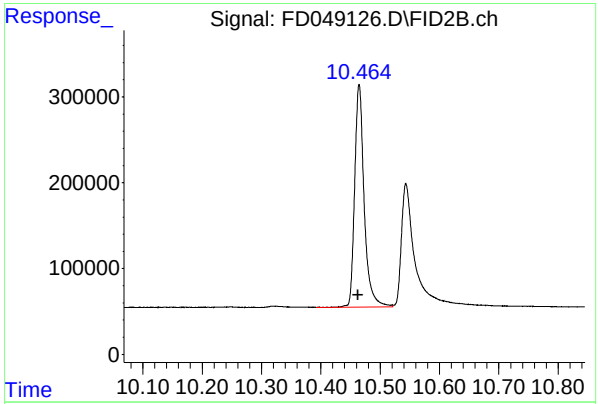
#7 Acenaphthene (C15.5)

R.T.: 8.297 min
Delta R.T.: 0.000 min
Response: 3152302
Conc: 19.16 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.078 min
Delta R.T.: 0.002 min
Response: 2966953
Conc: 18.82 ug/ml



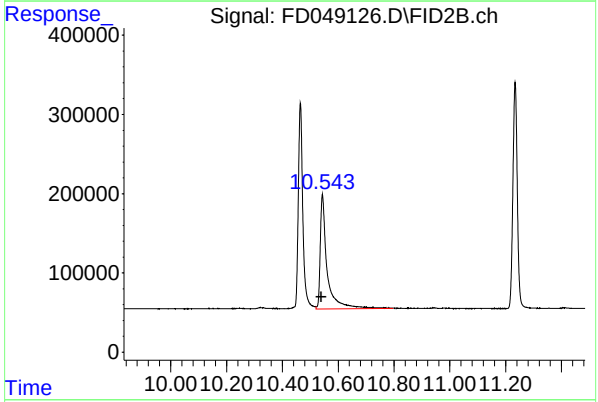
#9 Phenanthrene (C19.36)

R.T.: 10.465 min
Delta R.T.: 0.002 min
Response: 2891028
Conc: 19.18 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

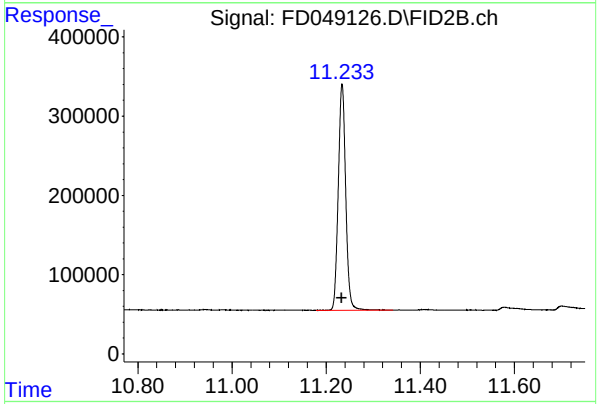
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



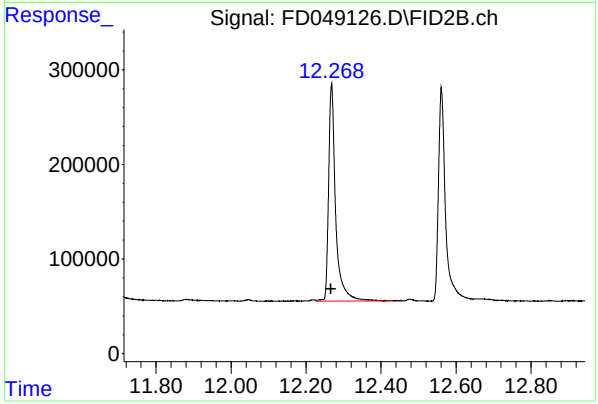
#10 Anthracene (C19.43)

R.T.: 10.543 min
Delta R.T.: 0.003 min
Response: 2491145
Conc: 16.49 ug/ml m



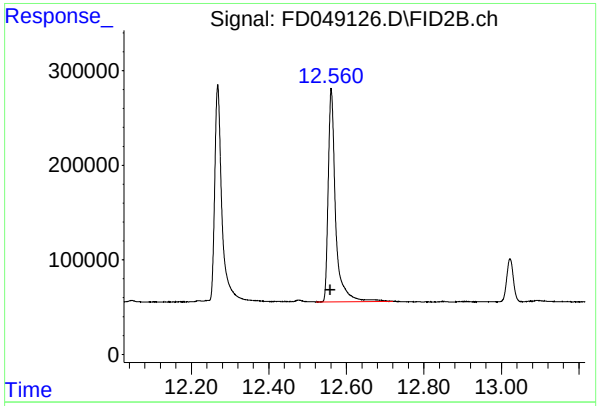
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 3139487
Conc: 19.41 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.268 min
Delta R.T.: 0.001 min
Response: 2989893
Conc: 19.38 ug/ml



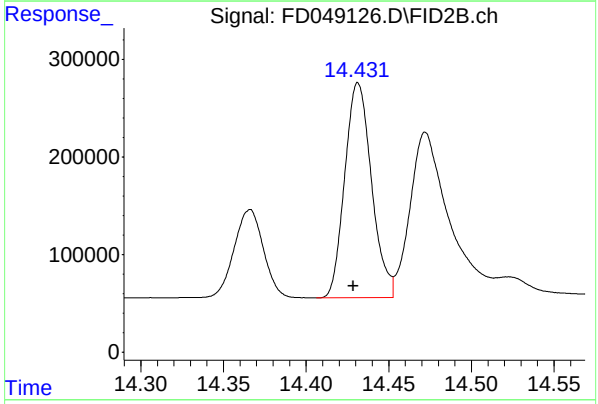
#13 Pyrene (C20.8)

R.T.: 12.561 min
Delta R.T.: 0.003 min
Response: 2994413
Conc: 19.44 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

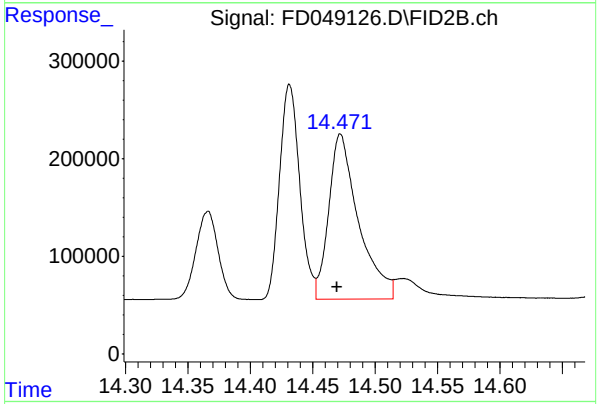
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



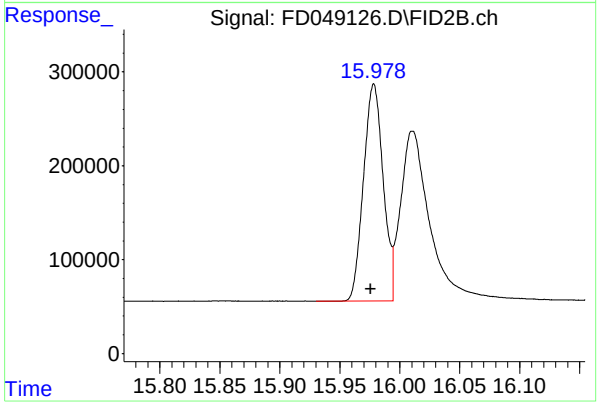
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.003 min
Response: 2485881
Conc: 18.92 ug/ml



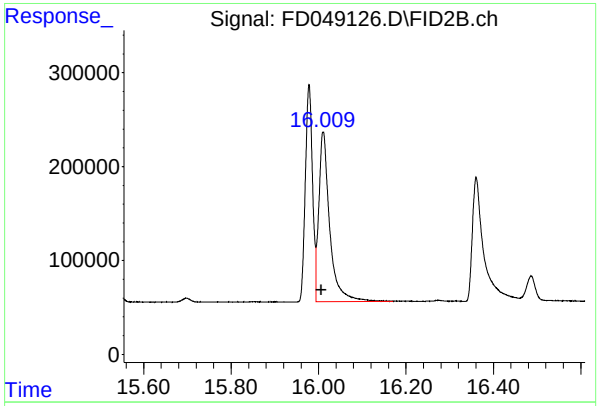
#15 Chrysene (C27.41)

R.T.: 14.472 min
Delta R.T.: 0.003 min
Response: 2805670
Conc: 17.35 ug/ml



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

R.T.: 15.978 min
Delta R.T.: 0.003 min
Response: 2629919
Conc: 19.11 ug/ml



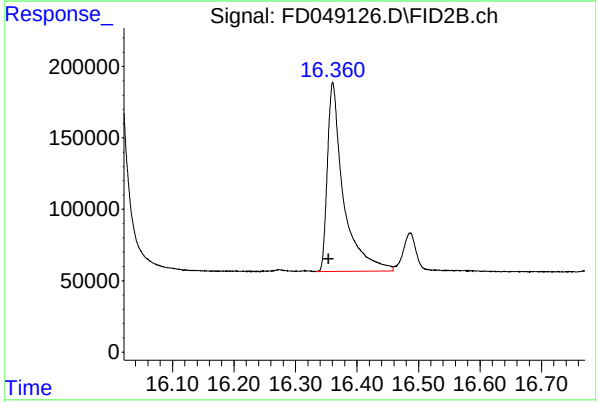
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.011 min
Delta R.T.: 0.005 min
Response: 3133545
Conc: 19.84 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

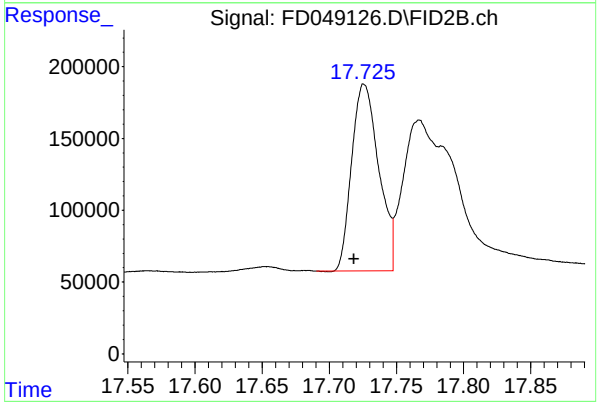
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



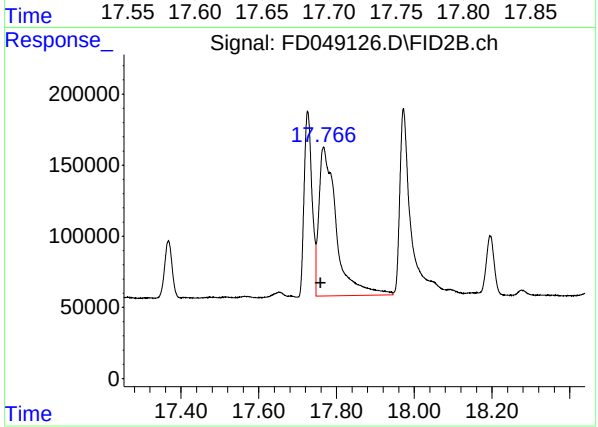
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.361 min
Delta R.T.: 0.007 min
Response: 2394319
Conc: 17.64 ug/ml



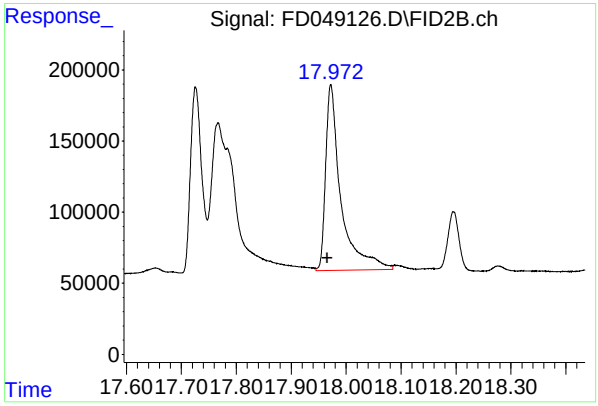
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.726 min
Delta R.T.: 0.008 min
Response: 1822082
Conc: 16.67 ug/ml



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

R.T.: 17.767 min
Delta R.T.: 0.008 min
Response: 3259244
Conc: 21.01 ug/ml



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

R.T.: 17.972 min
Delta R.T.: 0.006 mi
Response: 2536810
Conc: 17.50 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

rteres

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02272
Data File : FD049126.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:45
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 021125.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	4.176	4.130	4.310	BB	301054	2992353	91.81%	5.162%
2	5.694	5.647	5.889	BB	255160	3031512	93.01%	5.230%
3	6.740	6.712	6.952	BB	231925	3015137	92.51%	5.201%
4	7.353	7.300	7.522	BB	229183	2728919	83.73%	4.708%
5	8.004	7.960	8.142	BB	271487	3001239	92.08%	5.178%
6	8.205	8.160	8.273	BV	129428	1647523	50.55%	2.842%
7	8.297	8.273	8.430	VB	292737	3152302	96.72%	5.438%
8	9.078	8.972	9.244	BB	234088	2966953	91.03%	5.118%
9	10.465	10.392	10.521	BV	259262	2891028	88.70%	4.987%
10	10.544	10.521	10.749	VB	143592	2348592	72.06%	4.052%
11	11.234	11.179	11.342	BB	285835	3139487	96.33%	5.416%
12	12.268	12.227	12.432	VB	229937	2989893	91.74%	5.158%
13	12.561	12.522	12.720	BB	225927	2994413	91.87%	5.166%
14	14.431	14.406	14.453	PV	220219	2485881	76.27%	4.288%
15	14.472	14.453	14.514	VV	169580	2805670	86.08%	4.840%
16	15.978	15.930	15.994	BV	231522	2629919	80.69%	4.537%
17	16.011	15.994	16.170	VB	181011	3133545	96.14%	5.406%
18	16.361	16.334	16.459	BV	132427	2394319	73.46%	4.130%
19	17.726	17.690	17.747	BV	130388	1822082	55.91%	3.143%
20	17.767	17.747	17.945	VV	104832	3259244	100.00%	5.623%
21	17.972	17.945	18.085	VV	130622	2536810	77.83%	4.376%
			Sum of corrected areas:			57966821		

Aromatic EPH 021125.M Fri Feb 28 02:06:13 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049126.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:45
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: Feb 28 01:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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	159.254	149.618	E3	6.1	96	0.00
2	T	Naphthalene (C11.7)	158.788	151.576	E3	4.5	97	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	150.757	E3	3.2	97	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	136.446	E3	4.7	96	0.00
5	T	Acenaphthylene (C15.06)	162.606	150.062	E3	7.7	94	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	82.376	E3	6.3	93	0.00
7	T	Acenaphthene (C15.5)	164.509	157.615	E3	4.2	98	0.00
8	T	Flouorene (C16.55)	157.649	148.348	E3	5.9	95	0.00
9	T	Phenanthrene (C19.36)	150.701	144.551	E3	4.1	97	0.00
10	T	Anthracene (C19.43)	151.028	124.557	E3	17.5	83	0.00
11	S	ortho-Terphenyl (SURR)	161.774	156.974	E3	3.0	99	0.00
12	T	Fluoranthene (C21.85)	154.315	149.495	E3	3.1	97	0.00
13	T	Pyrene (C20.8)	154.058	149.721	E3	2.8	99	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	124.294	E3	5.4	92	0.00
15	T	Chrysene (C27.41)	161.687	140.283	E3	13.2	90	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	131.496	E3	4.4	94	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	156.677	E3	0.8	103	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	119.716	E3	11.8	89	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	91.104	E3	16.6	85	0.00
20	T	Dibenz[a,h]anthracene (C30.	155.140	162.962	E3	-5.0	105	0.00
21	T	Benzo[g,h,i]perylene (C34.0	144.951	126.841	E3	12.5	90	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 : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049129.D**						
Aromatic C10-C12	6160252.000	40.000	4.076	5.794	154006.300	159020.606	3.153
Aromatic C12-C16	9402232.000	60.000	5.795	8.396	156703.867	160935.866	2.630
Aromatic C16-C21	11641914.000	80.000	8.397	12.661	145523.925	153359.309	5.109
Aromatic C21-C36	23657575.000	180.000	12.662	18.073	131430.972	143114.753	8.164
Aromatic EPH	50861973.000	360.000	4.076	18.073	141283.258	150128.823	5.892

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 10:23
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049129.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6160252.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	9402232.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	11641914.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	23657575.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	50861973.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
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 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File: autoint1.e
Quant Time: Mar 01 02:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.353	2766220	19.329 ug/ml
Spiked Amount	50.000		Recovery =	38.66%
6) S	2-Flurobiphenyl (SURR)	8.205	1579167	17.963 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	35.93%
11) S	ortho-Terphenyl (SURR)	11.233	3098268	19.152 ug/ml
Spiked Amount	50.000		Recovery =	38.30%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	3087214	19.386 ug/ml
2) T	Naphthalene (C11.7)	5.694	3073038	19.353 ug/ml
3) T	2-Methylnaphthalene (...	6.740	3030795	19.466 ug/ml
5) T	Acenaphthylene (C15.06)	8.004	3126284	19.226 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3245153	19.726 ug/ml
8) T	Flouorene (C16.55)	9.078	3004154	19.056 ug/ml
9) T	Phenanthrene (C19.36)	10.464	2861190	18.986 ug/ml
10) T	Anthracene (C19.43)	10.542	2864021	18.963 ug/ml
12) T	Fluoranthene (C21.85)	12.269	2912936	18.877 ug/ml
13) T	Pyrene (C20.8)	12.561	2912549	18.905 ug/ml
14) T	Benzo[a]anthracene (C...	14.431	2400791	18.272 ug/ml
15) T	Chrysene (C27.41)	14.472	3110275	19.236 ug/ml
16) T	benzo[b]fluoranthene ...	15.978	2577213	18.731 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.010	3069763	19.436 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	2597623	19.137 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.729	1756887	16.077 ug/mlm
20) T	Dibenz[a,h]anthracene...	17.776	2586904	16.675 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	2645183	18.249 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

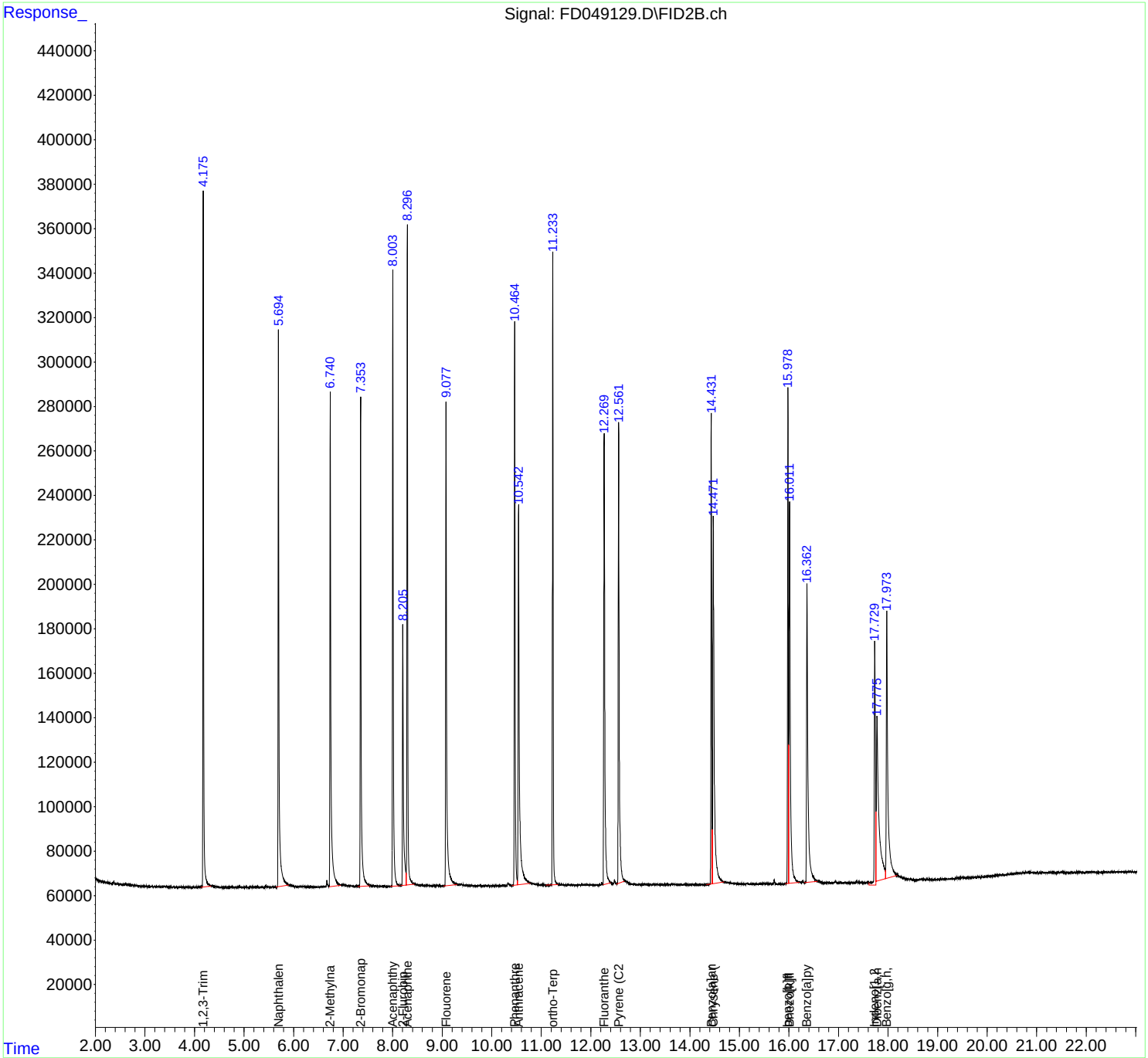
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

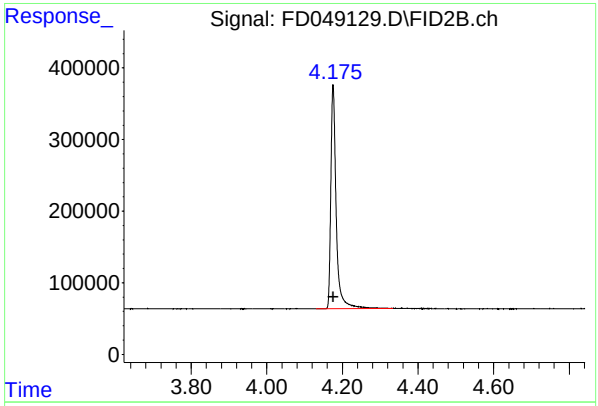
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

Integration File: autoint1.e
Quant Time: Mar 01 02:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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





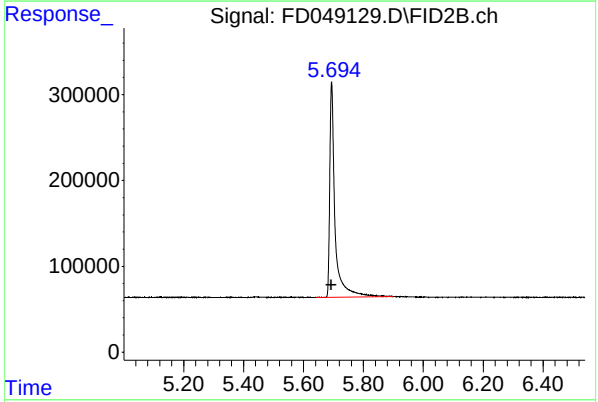
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 3087214
Conc: 19.39 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

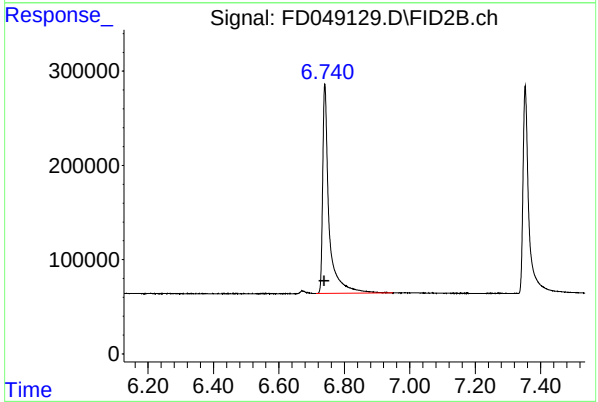
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025



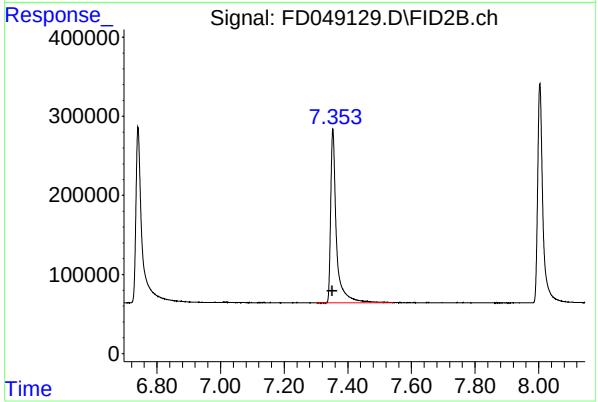
#2 Naphthalene (C11.7)

R.T.: 5.694 min
Delta R.T.: 0.001 min
Response: 3073038
Conc: 19.35 ug/ml



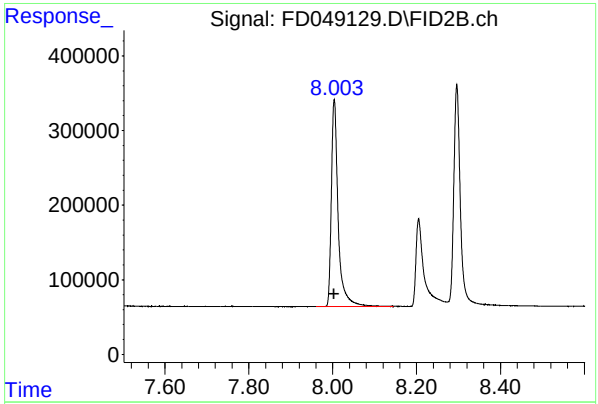
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.002 min
Response: 3030795
Conc: 19.47 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.353 min
Delta R.T.: 0.002 min
Response: 2766220
Conc: 19.33 ug/ml



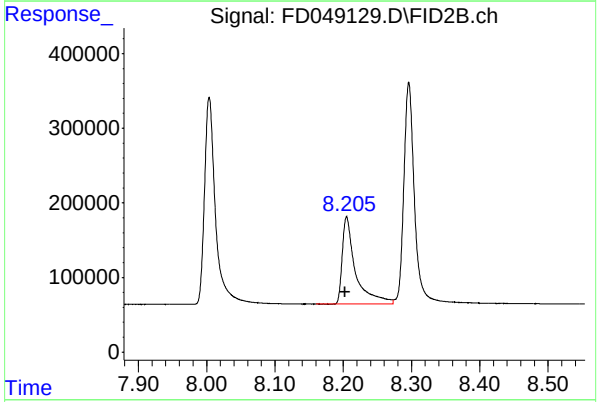
#5 Acenaphthylene (C15.06)

R.T.: 8.004 min
Delta R.T.: 0.001 min
Response: 3126284
Conc: 19.23 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

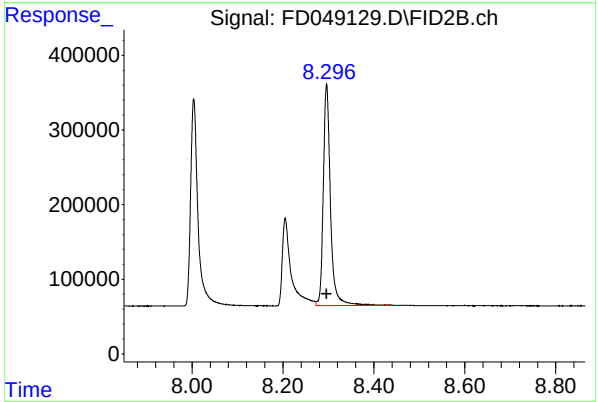
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025



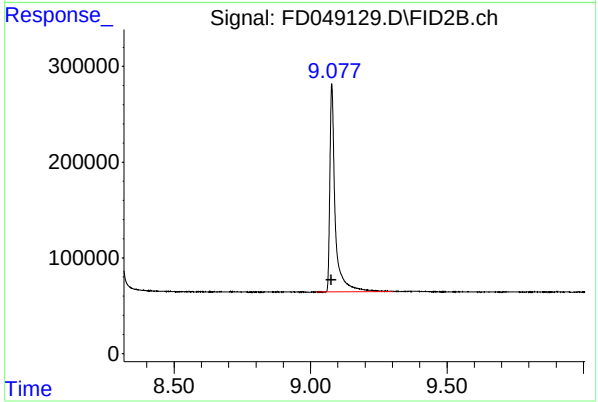
#6 2-Flurobiphenyl (SURR)

R.T.: 8.205 min
Delta R.T.: 0.003 min
Response: 1579167
Conc: 17.96 ug/ml



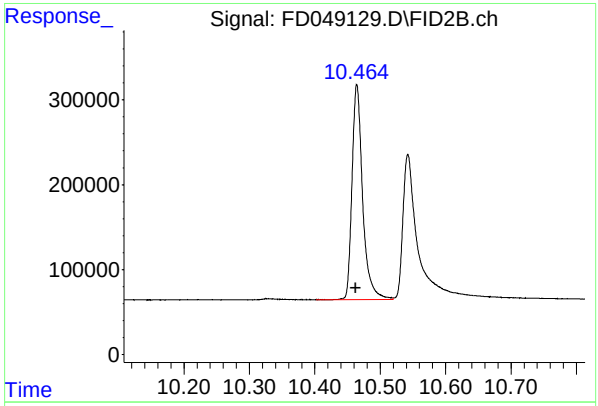
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: 0.000 min
Response: 3245153
Conc: 19.73 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.078 min
Delta R.T.: 0.002 min
Response: 3004154
Conc: 19.06 ug/ml



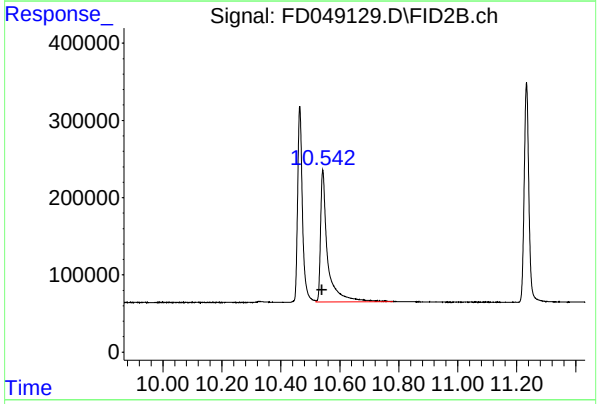
#9 Phenanthrene (C19.36)

R.T.: 10.464 min
Delta R.T.: 0.002 min
Response: 2861190
Conc: 18.99 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

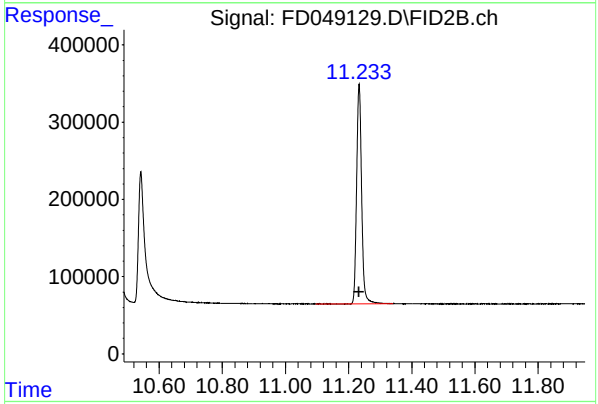
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025



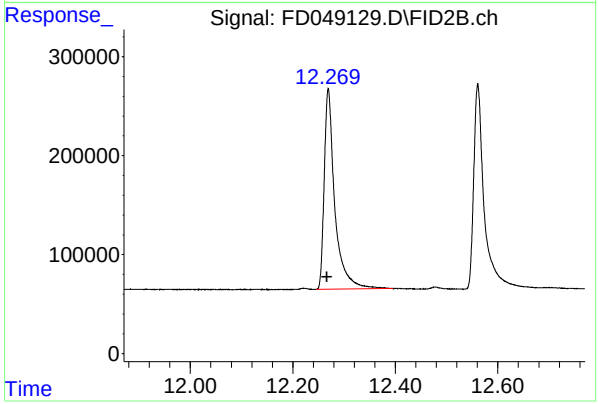
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.003 min
Response: 2864021
Conc: 18.96 ug/ml



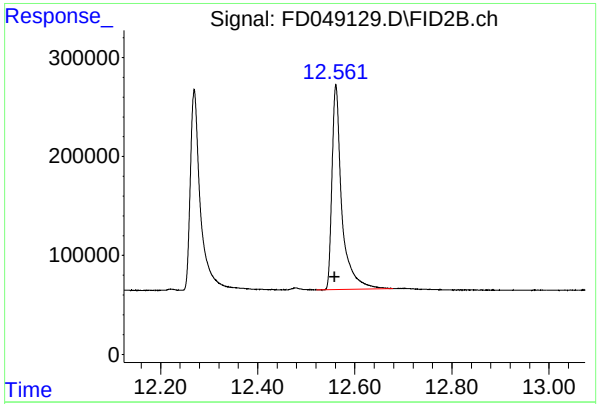
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3098268
Conc: 19.15 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.269 min
Delta R.T.: 0.002 min
Response: 2912936
Conc: 18.88 ug/ml



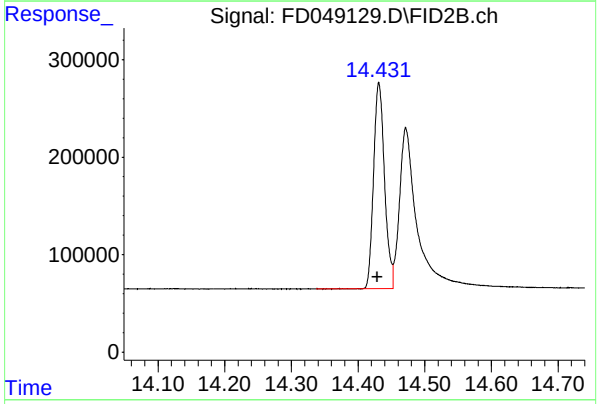
#13 Pyrene (C20.8)

R.T.: 12.561 min
Delta R.T.: 0.003 min
Response: 2912549
Conc: 18.91 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

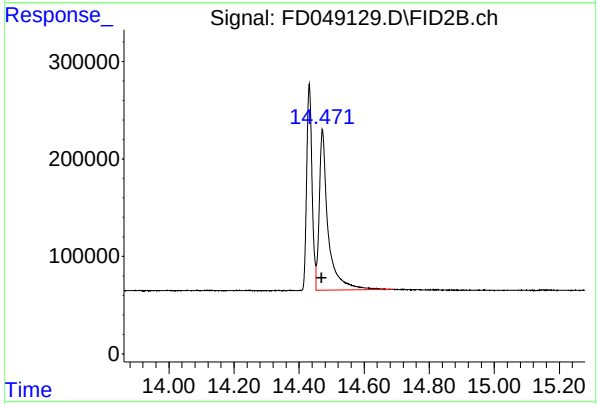
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025



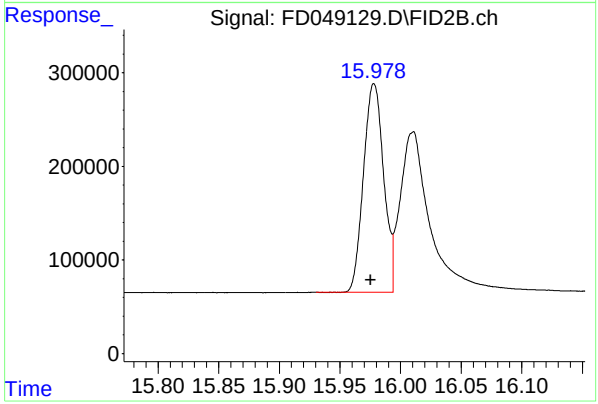
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.003 min
Response: 2400791
Conc: 18.27 ug/ml



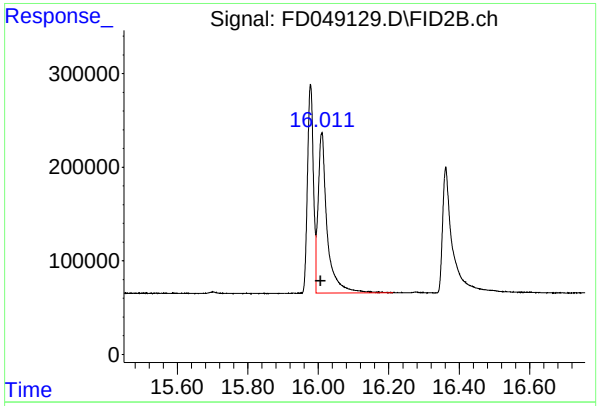
#15 Chrysene (C27.41)

R.T.: 14.472 min
Delta R.T.: 0.002 min
Response: 3110275
Conc: 19.24 ug/ml



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

R.T.: 15.978 min
Delta R.T.: 0.003 min
Response: 2577213
Conc: 18.73 ug/ml



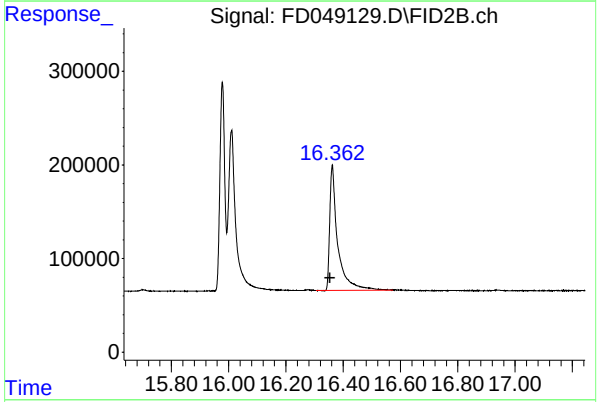
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.010 min
Delta R.T.: 0.004 min
Response: 3069763
Conc: 19.44 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

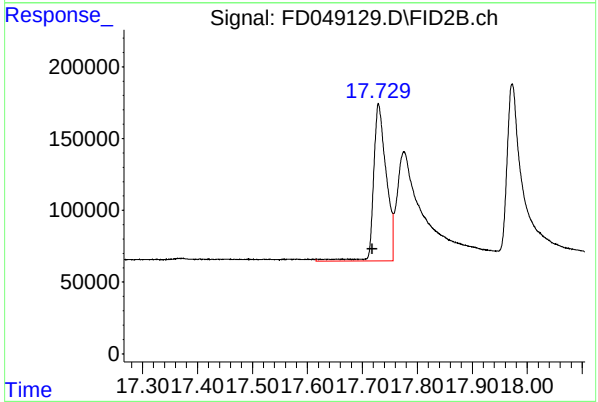
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025



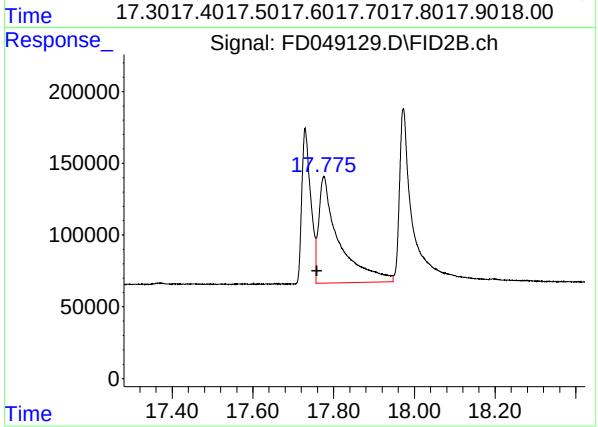
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.008 min
Response: 2597623
Conc: 19.14 ug/ml



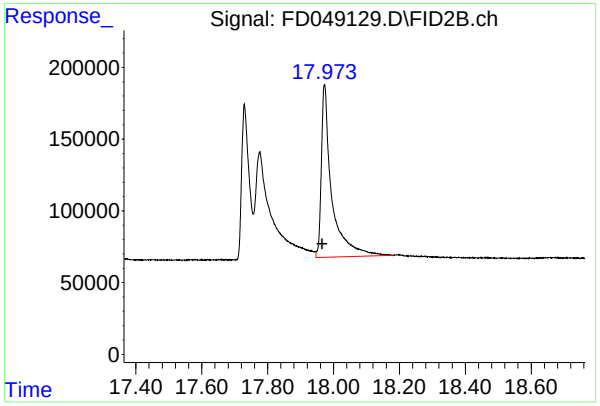
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.729 min
Delta R.T.: 0.010 min
Response: 1756887
Conc: 16.08 ug/ml m



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

R.T.: 17.776 min
Delta R.T.: 0.017 min
Response: 2586904
Conc: 16.67 ug/ml



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

R.T.: 17.973 min
Delta R.T.: 0.007 mi
Response: 2645183
Conc: 18.25 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

rteres

Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/03/2025
Supervised By :Ankita Jodhani 03/04/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02282
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
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 021125.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	4.176	4.130	4.334	BB	312663	3087214	95.13%	5.304%
2	5.694	5.642	5.899	BB	250529	3073038	94.70%	5.280%
3	6.740	6.714	6.949	PB	222312	3030795	93.39%	5.208%
4	7.353	7.300	7.542	BB	219818	2766220	85.24%	4.753%
5	8.004	7.960	8.144	BB	277198	3126284	96.34%	5.372%
6	8.205	8.160	8.273	BV	117209	1579167	48.66%	2.713%
7	8.296	8.273	8.442	VB	296676	3245153	100.00%	5.576%
8	9.078	9.020	9.302	BB	216484	3004154	92.57%	5.162%
9	10.464	10.402	10.520	BV	254175	2861190	88.17%	4.916%
10	10.542	10.520	10.780	VB	170899	2864021	88.26%	4.921%
11	11.233	11.097	11.340	BB	284580	3098268	95.47%	5.323%
12	12.269	12.245	12.395	PV	202620	2912936	89.76%	5.005%
13	12.561	12.520	12.679	BV	206714	2912549	89.75%	5.004%
14	14.431	14.337	14.452	BV	210851	2400791	73.98%	4.125%
15	14.472	14.452	14.689	VB	164479	3110275	95.84%	5.344%
16	15.978	15.930	15.994	BV	222862	2577213	79.42%	4.428%
17	16.010	15.994	16.212	VB	171182	3069763	94.60%	5.275%
18	16.362	16.305	16.574	BB	134262	2597623	80.05%	4.463%
19	17.730	17.690	17.757	BV	107493	1651182	50.88%	2.837%
20	17.776	17.757	17.947	VV	74288	2586904	79.72%	4.445%
21	17.973	17.947	18.180	VV	120236	2645183	81.51%	4.545%
			Sum of corrected areas:			58199919		

Aromatic EPH 021125.M Sat Mar 01 03:51:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049129.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 10:23
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: Mar 01 02:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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	159.254	154.361	E3	3.1	99	0.00
2	T	Naphthalene (C11.7)	158.788	153.652	E3	3.2	98	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	151.540	E3	2.7	98	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	138.311	E3	3.4	98	0.00
5	T	Acenaphthylene (C15.06)	162.606	156.314	E3	3.9	98	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	78.958	E3	10.2	89	0.00
7	T	Acenaphthene (C15.5)	164.509	162.258	E3	1.4	101	0.00
8	T	Flouorene (C16.55)	157.649	150.208	E3	4.7	96	0.00
9	T	Phenanthrene (C19.36)	150.701	143.059	E3	5.1	96	0.00
10	T	Anthracene (C19.43)	151.028	143.201	E3	5.2	95	0.00
11	S	ortho-Terphenyl (SURR)	161.774	154.913	E3	4.2	97	0.00
12	T	Fluoranthene (C21.85)	154.315	145.647	E3	5.6	95	0.00
13	T	Pyrene (C20.8)	154.058	145.627	E3	5.5	97	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	120.040	E3	8.6	89	0.00
15	T	Chrysene (C27.41)	161.687	155.514	E3	3.8	100	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	128.861	E3	6.3	92	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	153.488	E3	2.8	101	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	129.881	E3	4.3	97	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	87.844	E3	19.6	82	0.01
20	T	Dibenz[a,h]anthracene (C30.	155.140	129.345	E3	16.6	83	0.02
21	T	Benzo[g,h,i]perylene (C34.0	144.951	132.259	E3	8.8	93	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 : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049139.D**						
Aromatic C10-C12	6813477.000	40.000	4.076	5.794	170336.925	159020.606	-7.116
Aromatic C12-C16	10472510.000	60.000	5.795	8.396	174541.833	160935.866	-8.454
Aromatic C16-C21	13024891.000	80.000	8.397	12.661	162811.138	153359.309	-6.163
Aromatic C21-C36	26617558.000	180.000	12.662	18.073	147875.322	143114.753	-3.326
Aromatic EPH	56928436.000	360.000	4.076	18.073	158134.544	150128.823	-5.333

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 16:30
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049139.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6813477.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10472510.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13024891.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	26617558.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	56928436.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
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: Mar 01 02:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	3062089	21.397 ug/ml
Spiked Amount	50.000		Recovery =	42.79%
6) S	2-Flurobiphenyl (SURR)	8.204	1810963	20.600 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.20%
11) S	ortho-Terphenyl (SURR)	11.233	3471724	21.460 ug/ml
Spiked Amount	50.000		Recovery =	42.92%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.175	3399763	21.348 ug/ml
2) T	Naphthalene (C11.7)	5.693	3413714	21.499 ug/ml
3) T	2-Methylnaphthalene (...	6.740	3391580	21.784 ug/ml
5) T	Acenaphthylene (C15.06)	8.003	3462957	21.297 ug/ml
7) T	Acenaphthene (C15.5)	8.296	3617973	21.993 ug/ml
8) T	Flouorene (C16.55)	9.077	3337715	21.172 ug/ml
9) T	Phenanthrene (C19.36)	10.464	3215091	21.334 ug/ml
10) T	Anthracene (C19.43)	10.542	3207397	21.237 ug/ml
12) T	Fluoranthene (C21.85)	12.269	3302650	21.402 ug/ml
13) T	Pyrene (C20.8)	12.561	3264688	21.191 ug/ml
14) T	Benzo[a]anthracene (C...	14.432	2802942	21.333 ug/ml
15) T	Chrysene (C27.41)	14.473	3496552	21.625 ug/ml
16) T	benzo[b]fluoranthene ...	15.978	2945002	21.404 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.010	3328113	21.072 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.360	2719805	20.037 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	1974445	18.068 ug/ml
20) T	Dibenz[a,h]anthracene...	17.769	3112363	20.062 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	2935686	20.253 ug/ml

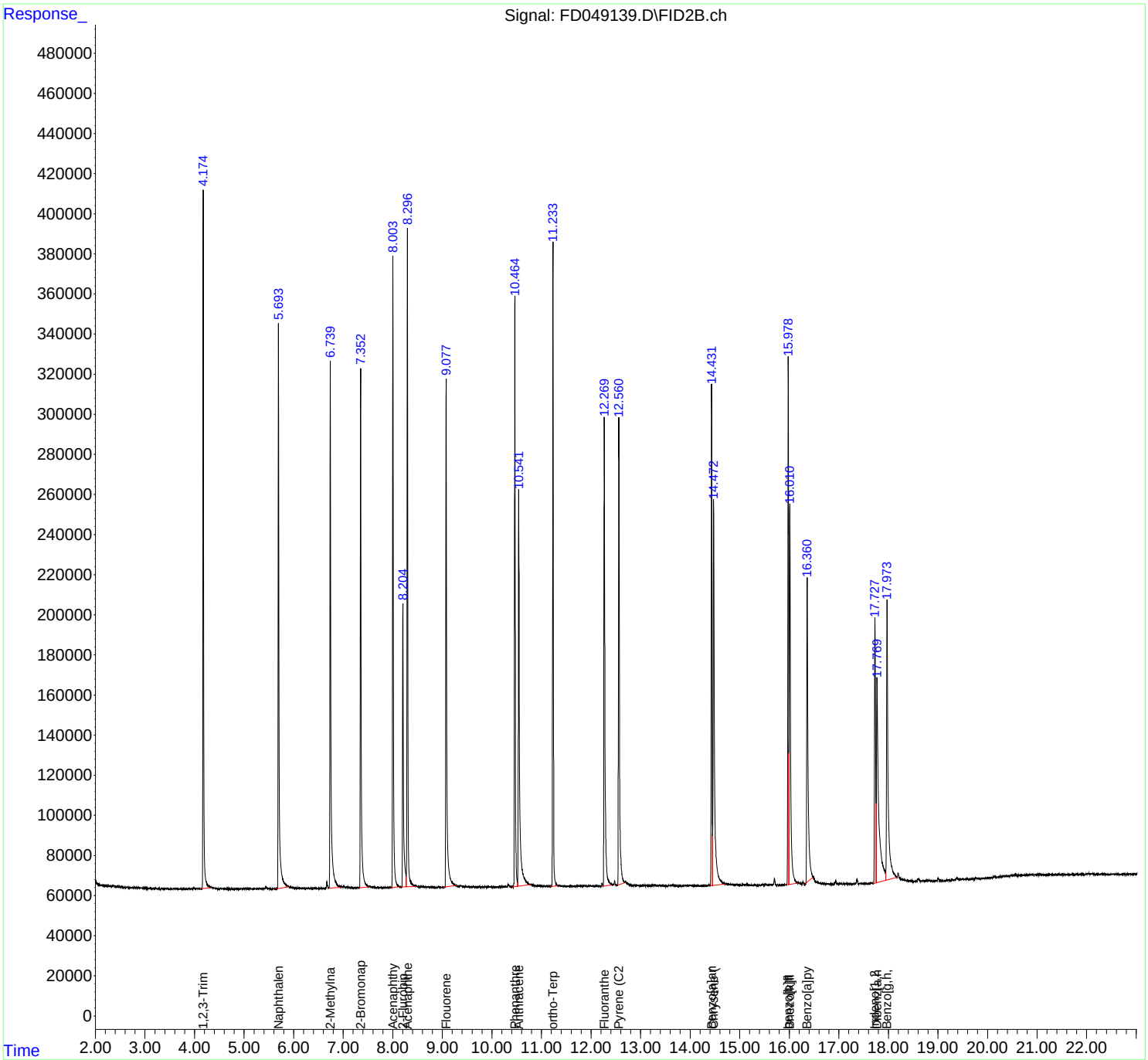
(f)=RT Delta > 1/2 Window (m)=manual int.

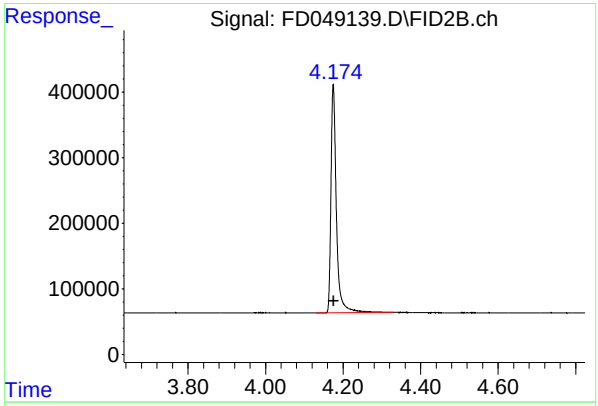
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

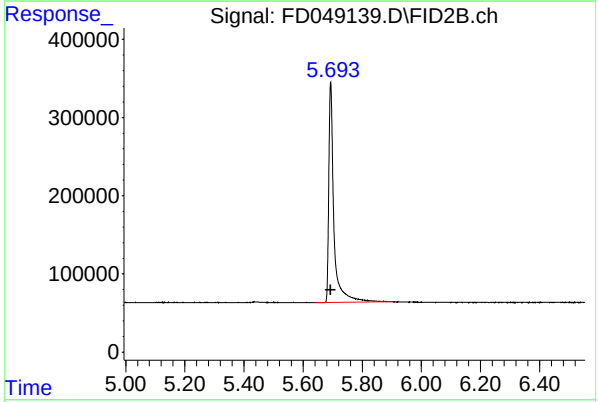




#1 1,2,3-Trimethylbenzene (C10.1)

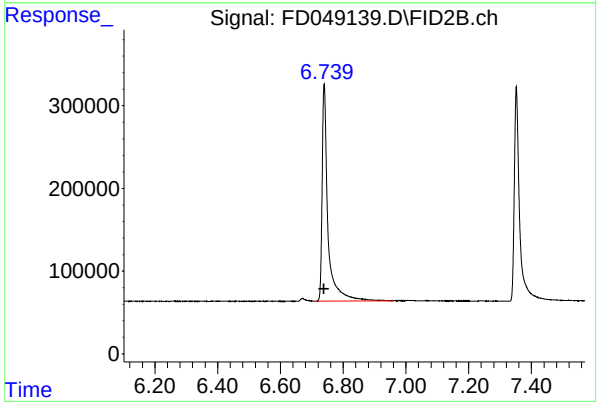
R.T.: 4.175 min
Delta R.T.: -0.001 min
Response: 3399763
Conc: 21.35 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



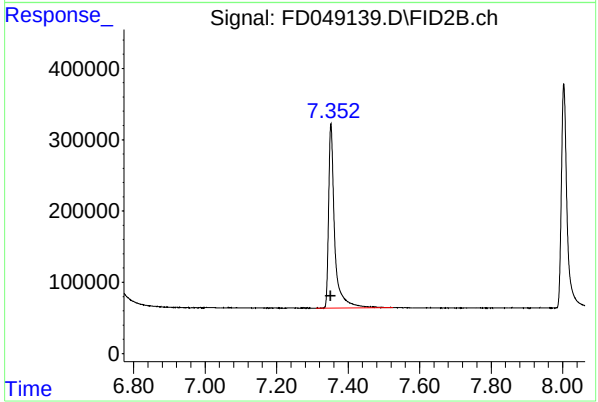
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 3413714
Conc: 21.50 ug/ml



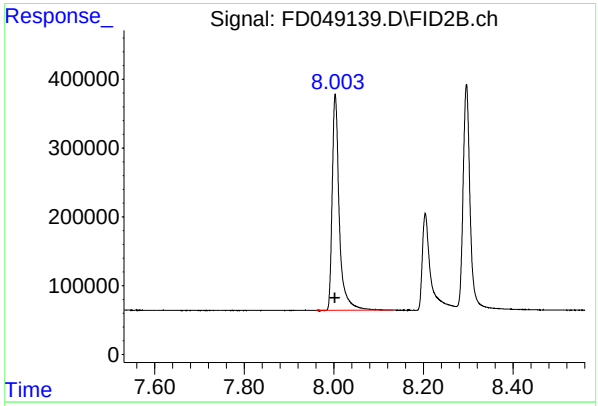
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 3391580
Conc: 21.78 ug/ml



#4 2-Bromonaphthalene (SURR)

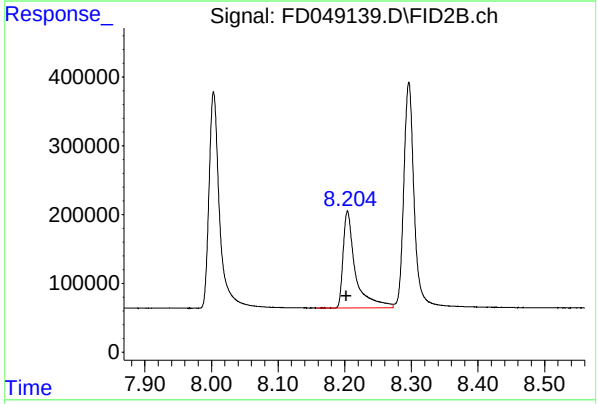
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 3062089
Conc: 21.40 ug/ml



#5 Acenaphthylene (C15.06)

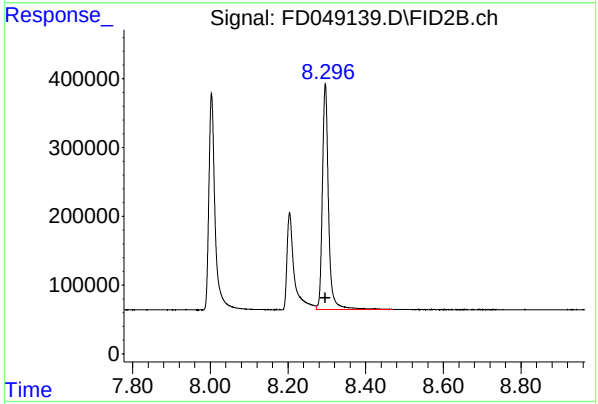
R.T.: 8.003 min
Delta R.T.: 0.000 min
Response: 3462957
Conc: 21.30 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



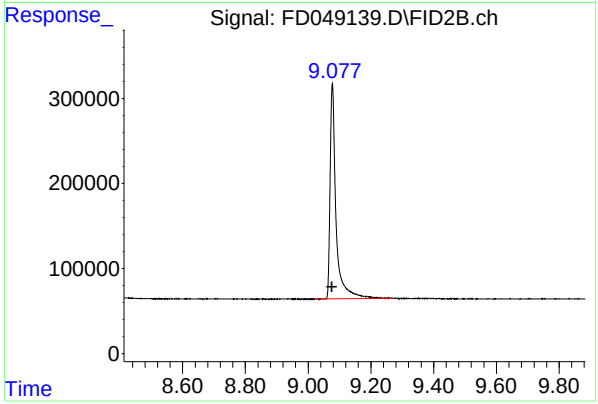
#6 2-Flurobiphenyl (SURR)

R.T.: 8.204 min
Delta R.T.: 0.002 min
Response: 1810963
Conc: 20.60 ug/ml



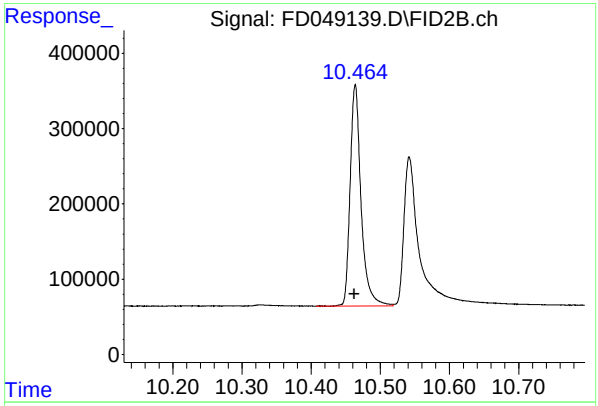
#7 Acenaphthene (C15.5)

R.T.: 8.296 min
Delta R.T.: 0.000 min
Response: 3617973
Conc: 21.99 ug/ml



#8 Flouorene (C16.55)

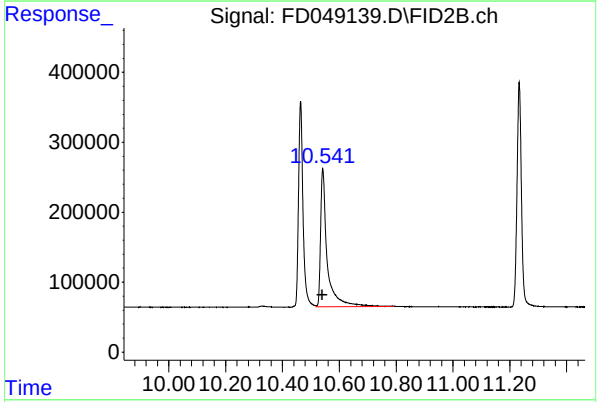
R.T.: 9.077 min
Delta R.T.: 0.001 min
Response: 3337715
Conc: 21.17 ug/ml



#9 Phenanthrene (C19.36)

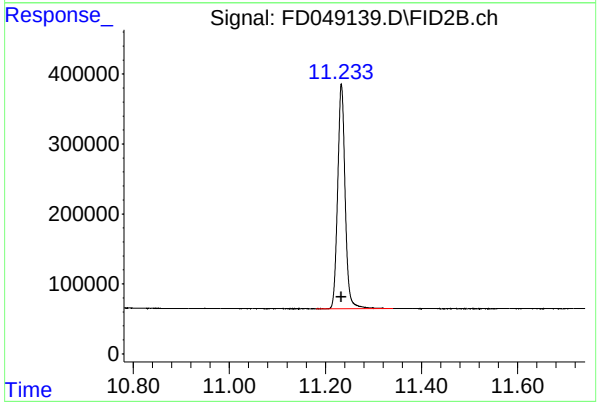
R.T.: 10.464 min
Delta R.T.: 0.000 min
Response: 3215091
Conc: 21.33 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



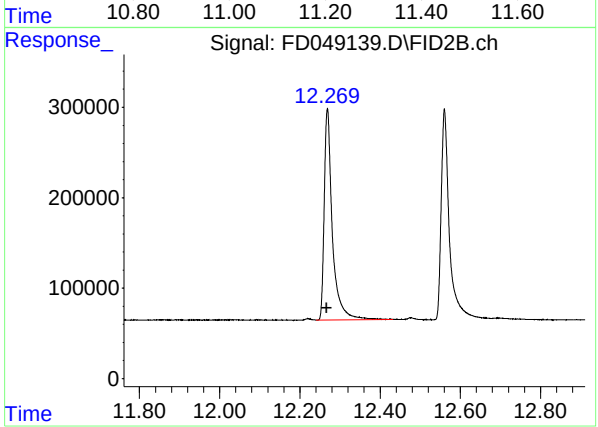
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.002 min
Response: 3207397
Conc: 21.24 ug/ml



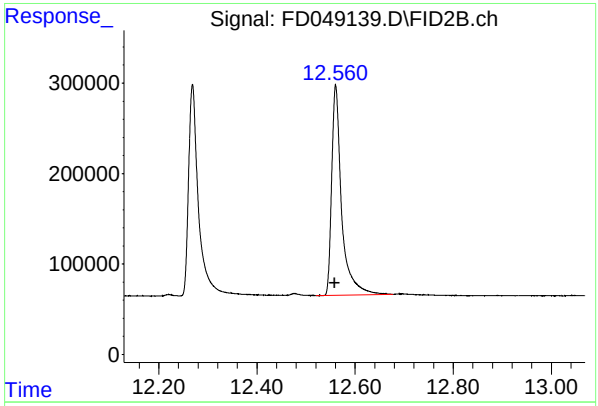
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3471724
Conc: 21.46 ug/ml



#12 Fluoranthene (C21.85)

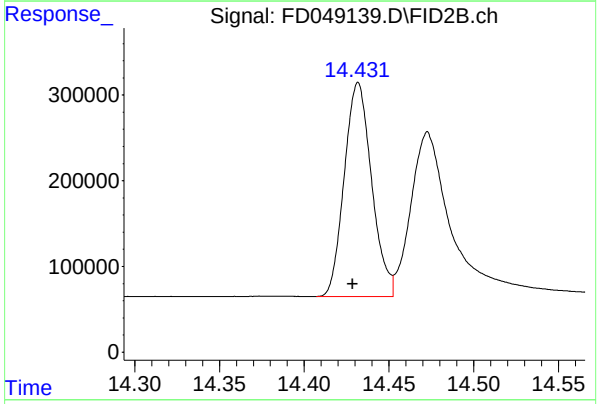
R.T.: 12.269 min
Delta R.T.: 0.002 min
Response: 3302650
Conc: 21.40 ug/ml



#13 Pyrene (C20.8)

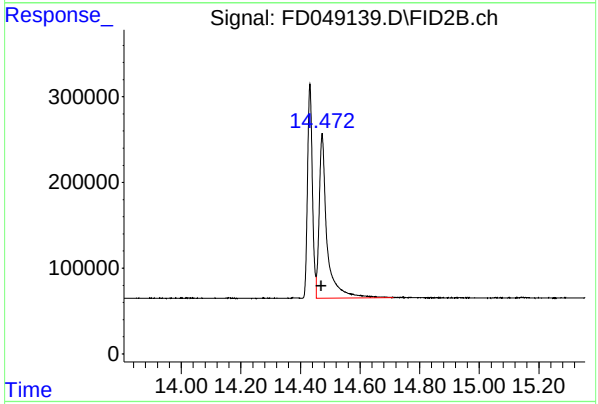
R.T.: 12.561 min
Delta R.T.: 0.002 min
Response: 3264688
Conc: 21.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



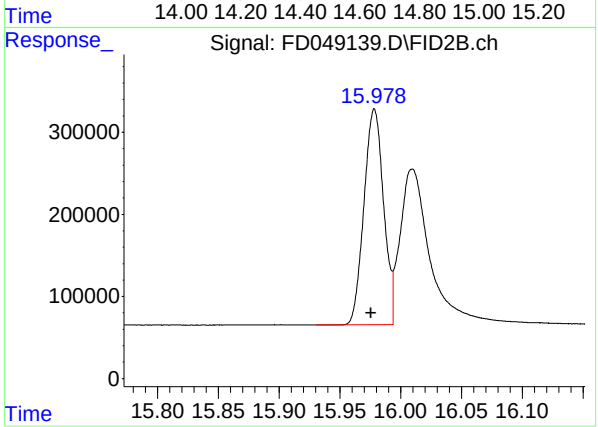
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.432 min
Delta R.T.: 0.003 min
Response: 2802942
Conc: 21.33 ug/ml



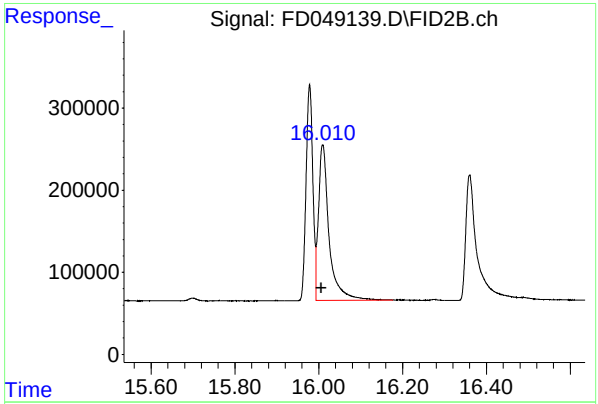
#15 Chrysene (C27.41)

R.T.: 14.473 min
Delta R.T.: 0.003 min
Response: 3496552
Conc: 21.63 ug/ml



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

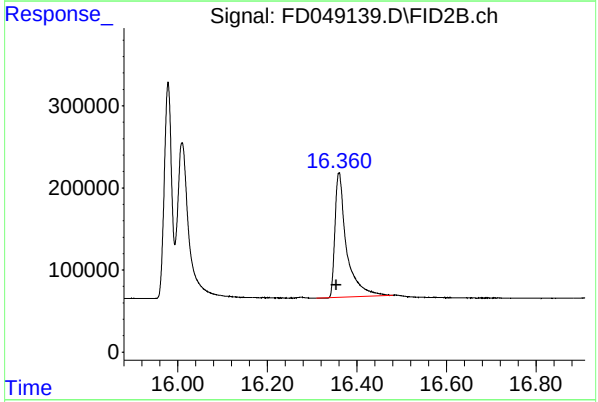
R.T.: 15.978 min
Delta R.T.: 0.003 min
Response: 2945002
Conc: 21.40 ug/ml



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

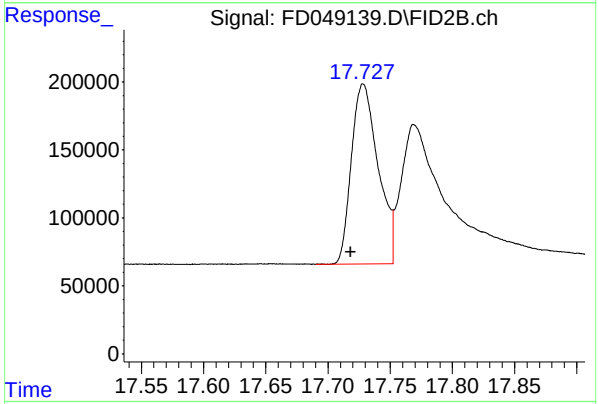
R.T.: 16.010 min
Delta R.T.: 0.003 min
Response: 3328113
Conc: 21.07 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



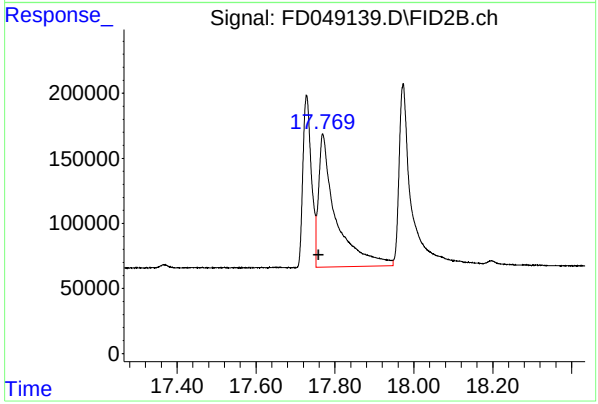
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.360 min
Delta R.T.: 0.006 min
Response: 2719805
Conc: 20.04 ug/ml



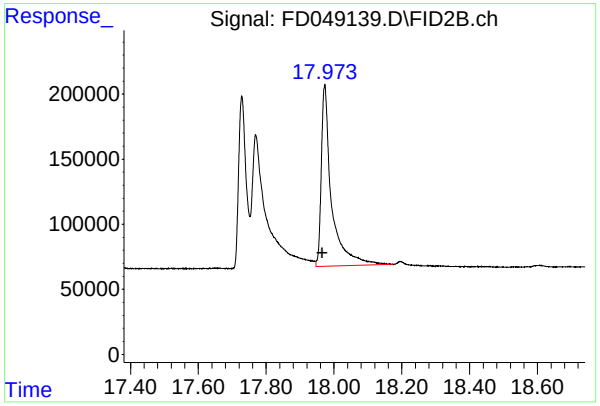
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.728 min
Delta R.T.: 0.010 min
Response: 1974445
Conc: 18.07 ug/ml



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

R.T.: 17.769 min
Delta R.T.: 0.010 min
Response: 3112363
Conc: 20.06 ug/ml



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

R.T.: 17.973 min
Delta R.T.: 0.007 mi
Response: 2935686
Conc: 20.25 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
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 021125.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	4.175	4.130	4.329	BB	347315	3399763	93.97%	5.209%
2	5.693	5.644	5.904	BB	281480	3413714	94.35%	5.230%
3	6.740	6.714	6.959	PV	262624	3391580	93.74%	5.196%
4	7.352	7.310	7.525	BB	258504	3062089	84.64%	4.691%
5	8.003	7.960	8.132	BB	313684	3462957	95.72%	5.305%
6	8.204	8.157	8.272	BV	140970	1810963	50.05%	2.774%
7	8.296	8.272	8.470	VB	328959	3617973	100.00%	5.543%
8	9.077	9.025	9.270	BB	252925	3337715	92.25%	5.113%
9	10.464	10.407	10.518	BV	294137	3215091	88.86%	4.926%
10	10.542	10.518	10.789	VB	197481	3207397	88.65%	4.914%
11	11.233	11.180	11.340	BB	319815	3471724	95.96%	5.319%
12	12.269	12.240	12.432	PB	233879	3302650	91.28%	5.060%
13	12.561	12.520	12.677	BV	232578	3264688	90.24%	5.002%
14	14.432	14.407	14.452	BV	250173	2802942	77.47%	4.294%
15	14.473	14.452	14.710	VB	191741	3496552	96.64%	5.357%
16	15.978	15.930	15.994	BV	263046	2945002	81.40%	4.512%
17	16.010	15.994	16.177	VV	189631	3328113	91.99%	5.099%
18	16.360	16.309	16.480	BV	151978	2719805	75.17%	4.167%
19	17.728	17.690	17.752	BV	132307	1974445	54.57%	3.025%
20	17.769	17.752	17.947	VV	102302	3112363	86.03%	4.768%
21	17.973	17.947	18.174	VV	138958	2935686	81.14%	4.498%
			Sum of corrected areas:			65273211		

Aromatic EPH 021125.M Sat Mar 01 03:55:59 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049139.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 16:30
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: Mar 01 02:19:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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	159.254	169.988	E3	-6.7	109	0.00
2	T	Naphthalene (C11.7)	158.788	170.686	E3	-7.5	109	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	169.579	E3	-8.9	109	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	153.104	E3	-7.0	108	0.00
5	T	Acenaphthylene (C15.06)	162.606	173.148	E3	-6.5	108	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	90.548	E3	-3.0	102	0.00
7	T	Acenaphthene (C15.5)	164.509	180.899	E3	-10.0	113	0.00
8	T	Flouorene (C16.55)	157.649	166.886	E3	-5.9	107	0.00
9	T	Phenanthrene (C19.36)	150.701	160.755	E3	-6.7	107	0.00
10	T	Anthracene (C19.43)	151.028	160.370	E3	-6.2	107	0.00
11	S	ortho-Terphenyl (SURR)	161.774	173.586	E3	-7.3	109	0.00
12	T	Fluoranthene (C21.85)	154.315	165.132	E3	-7.0	108	0.00
13	T	Pyrene (C20.8)	154.058	163.234	E3	-6.0	108	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	140.147	E3	-6.7	104	0.00
15	T	Chrysene (C27.41)	161.687	174.828	E3	-8.1	113	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	147.250	E3	-7.0	105	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	166.406	E3	-5.4	109	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	135.990	E3	-0.2	101	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	98.722	E3	9.7	92	0.01
20	T	Dibenz[a,h]anthracene (C30.	155.140	155.618	E3	-0.3	100	0.01
21	T	Benzo[g,h,i]perylene (C34.0	144.951	146.784	E3	-1.3	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 : FD022825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049149.D**						
Aromatic C10-C12	6973708.000	40.000	4.076	5.794	174342.700	159020.606	-9.635
Aromatic C12-C16	10519197.000	60.000	5.795	8.396	175319.950	160935.866	-8.938
Aromatic C16-C21	13182289.000	80.000	8.397	12.661	164778.613	153359.309	-7.446
Aromatic C21-C36	27715585.000	180.000	12.662	18.073	153975.472	143114.753	-7.589
Aromatic EPH	58390779.000	360.000	4.076	18.073	162196.608	150128.823	-8.038

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Feb 2025 23:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049149.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.076	5.794	6973708.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.396	10519197.000	60.000	ug/ml
Aromatic C16-C21	8.397	12.661	13182289.000	80.000	ug/ml
Aromatic C21-C36	12.662	18.073	27715585.000	180.000	ug/ml
Aromatic EPH	4.076	18.073	58390779.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
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: Mar 01 02:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.351	3112938	21.752 ug/ml
	Spiked Amount 50.000		Recovery =	43.50%
6)	S 2-Flurobiphenyl (SURR)	8.202	1935781	22.020 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	44.04%
11)	S ortho-Terphenyl (SURR)	11.233	3516404	21.736 ug/ml
	Spiked Amount 50.000		Recovery =	43.47%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.174	3482094	21.865 ug/ml
2)	T Naphthalene (C11.7)	5.692	3491614	21.989 ug/ml
3)	T 2-Methylnaphthalene (...	6.738	3436502	22.072 ug/ml
5)	T Acenaphthylene (C15.06)	8.002	3538476	21.761 ug/ml
7)	T Acenaphthene (C15.5)	8.295	3544219	21.544 ug/ml
8)	T Flouorene (C16.55)	9.076	3414145	21.657 ug/ml
9)	T Phenanthrene (C19.36)	10.463	3285846	21.804 ug/ml
10)	T Anthracene (C19.43)	10.540	3144239	20.819 ug/ml
12)	T Fluoranthene (C21.85)	12.268	3406381	22.074 ug/ml
13)	T Pyrene (C20.8)	12.560	3338059	21.667 ug/ml
14)	T Benzo[a]anthracene (C...	14.431	2962829	22.550 ug/ml
15)	T Chrysene (C27.41)	14.472	3493330	21.606 ug/ml
16)	T benzo[b]fluoranthene ...	15.979	3063160	22.262 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.010	3396369	21.504 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.358	2853122	21.020 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.724	2187483	20.018 ug/ml
20)	T Dibenz[a,h]anthracene...	17.764	3318186	21.388 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.972	3034725	20.936 ug/ml

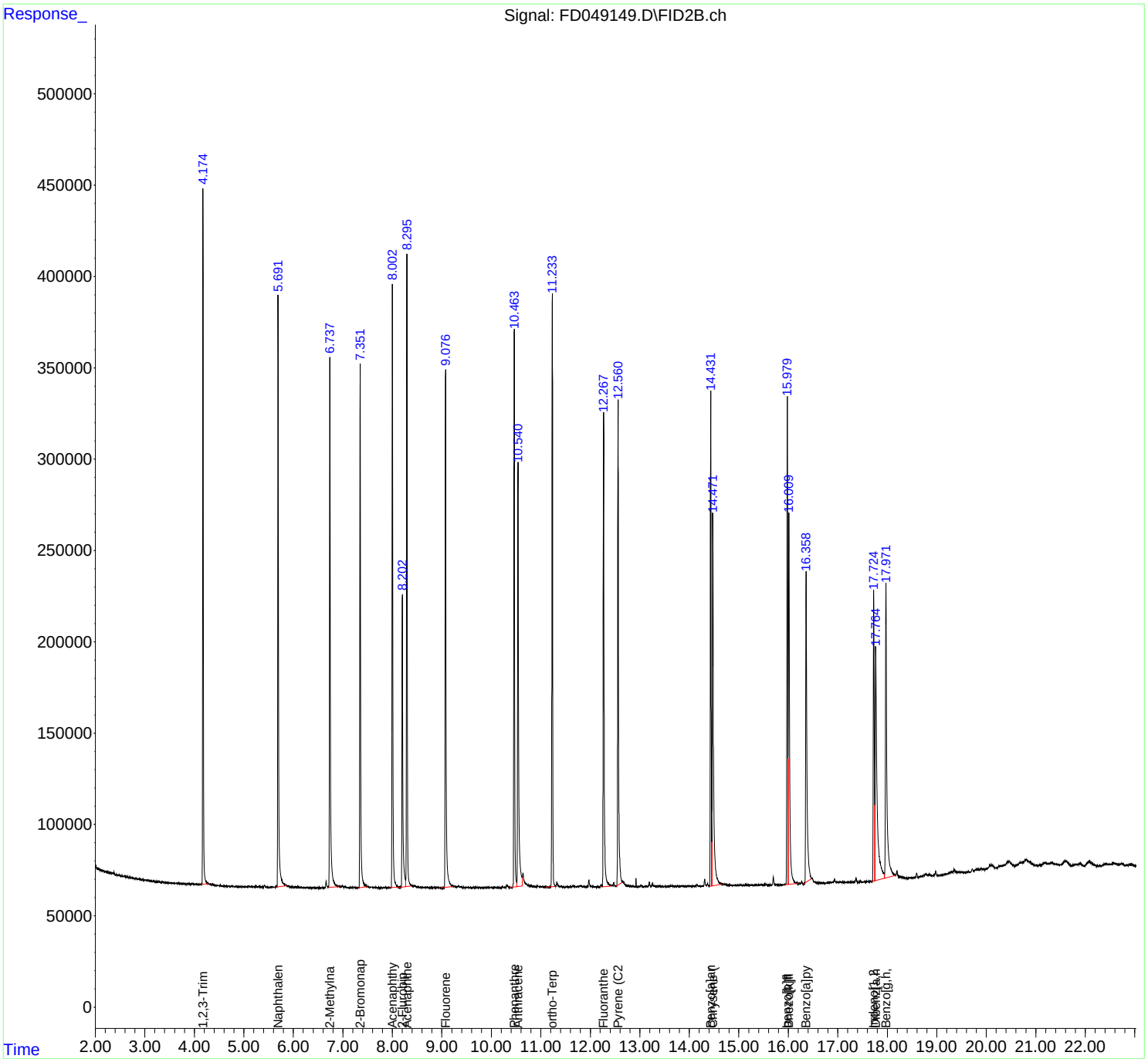
(f)=RT Delta > 1/2 Window (m)=manual int.

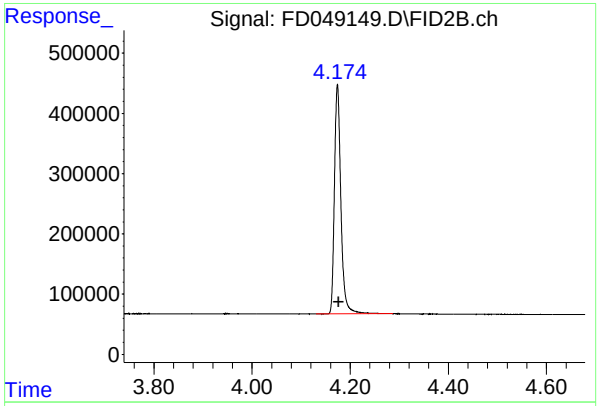
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 01 02:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

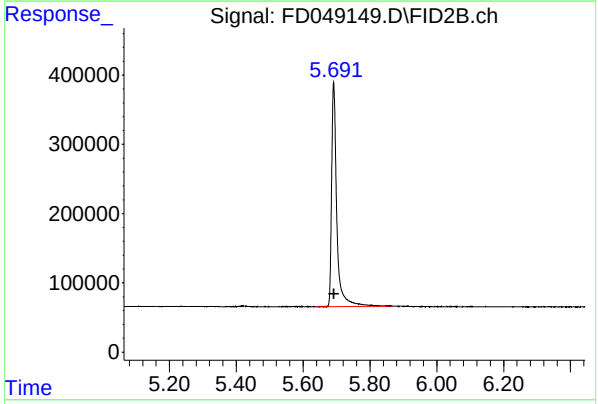




#1 1,2,3-Trimethylbenzene (C10.1)

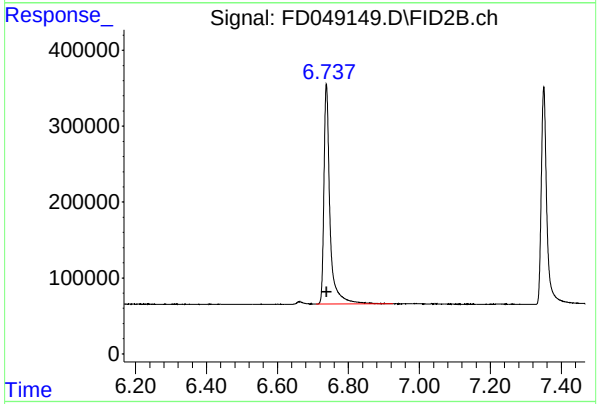
R.T.: 4.174 min
Delta R.T.: -0.002 min
Response: 3482094
Conc: 21.87 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



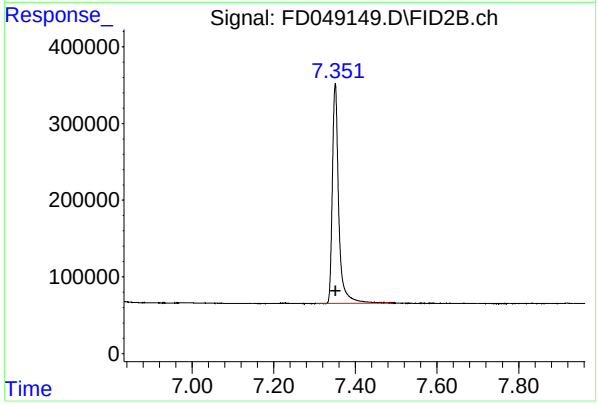
#2 Naphthalene (C11.7)

R.T.: 5.692 min
Delta R.T.: -0.001 min
Response: 3491614
Conc: 21.99 ug/ml



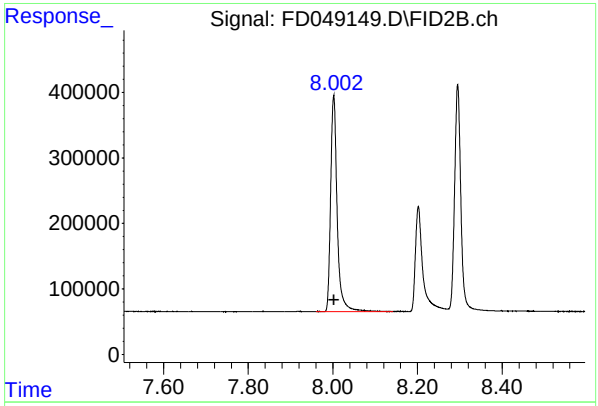
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.738 min
Delta R.T.: 0.000 min
Response: 3436502
Conc: 22.07 ug/ml



#4 2-Bromonaphthalene (SURR)

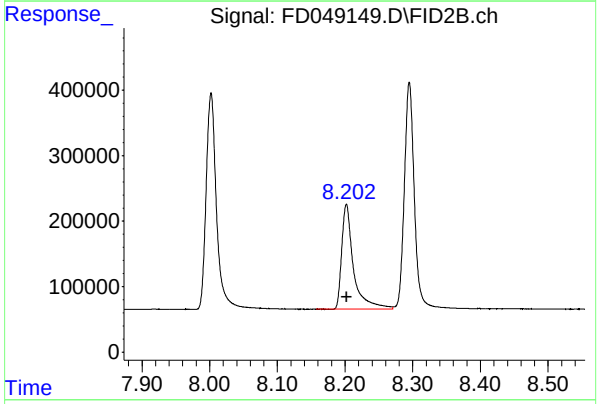
R.T.: 7.351 min
Delta R.T.: 0.000 min
Response: 3112938
Conc: 21.75 ug/ml



#5 Acenaphthylene (C15.06)

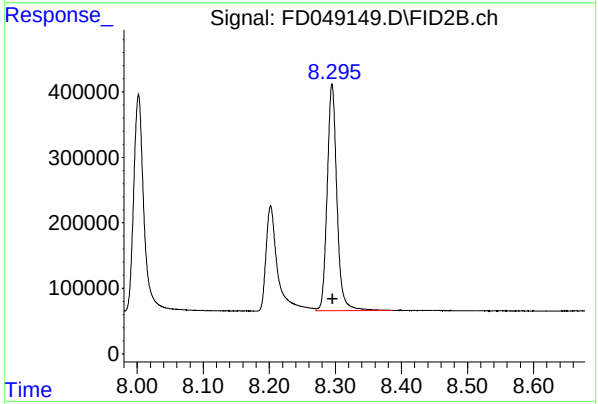
R.T.: 8.002 min
Delta R.T.: 0.000 min
Response: 3538476
Conc: 21.76 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



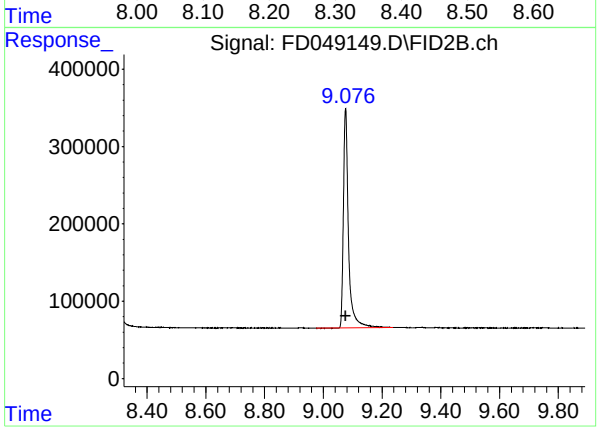
#6 2-Flurobiphenyl (SURR)

R.T.: 8.202 min
Delta R.T.: 0.000 min
Response: 1935781
Conc: 22.02 ug/ml



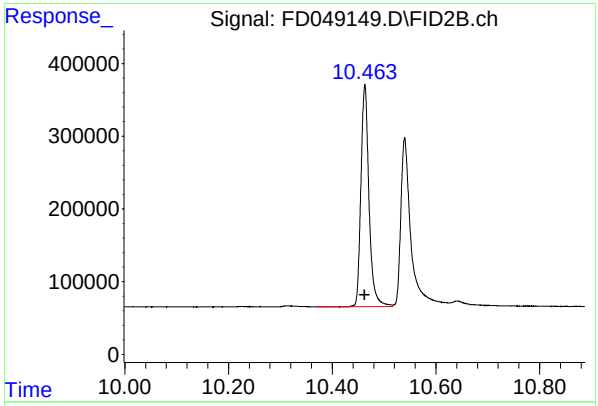
#7 Acenaphthene (C15.5)

R.T.: 8.295 min
Delta R.T.: -0.001 min
Response: 3544219
Conc: 21.54 ug/ml



#8 Flouorene (C16.55)

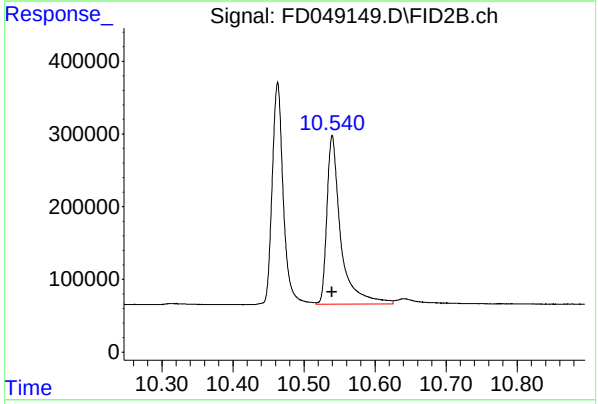
R.T.: 9.076 min
Delta R.T.: 0.000 min
Response: 3414145
Conc: 21.66 ug/ml



#9 Phenanthrene (C19.36)

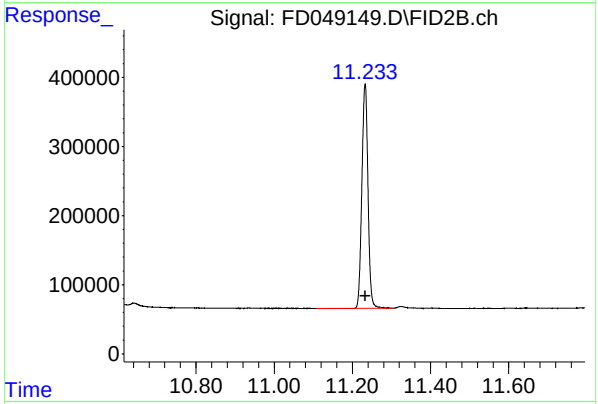
R.T.: 10.463 min
Delta R.T.: 0.000 min
Response: 3285846
Conc: 21.80 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



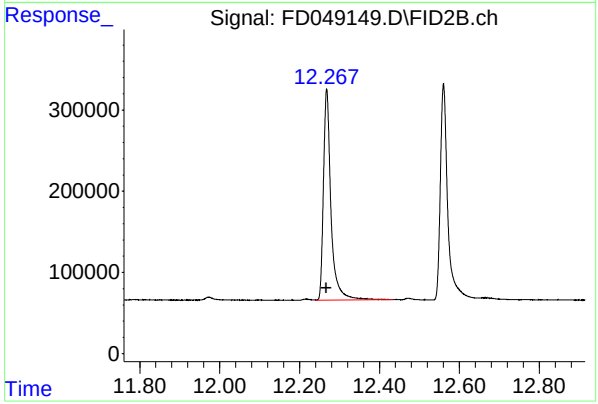
#10 Anthracene (C19.43)

R.T.: 10.540 min
Delta R.T.: 0.000 min
Response: 3144239
Conc: 20.82 ug/ml



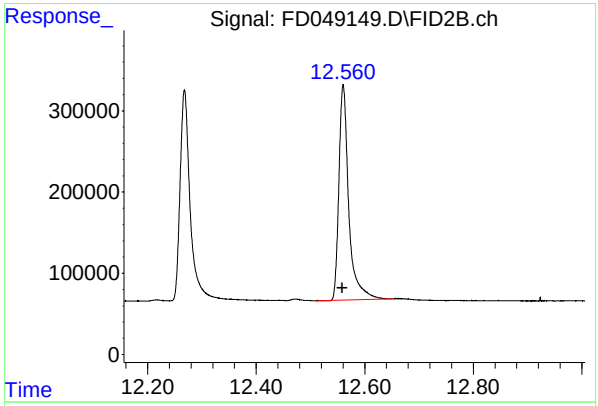
#11 ortho-Terphenyl (SURR)

R.T.: 11.233 min
Delta R.T.: 0.000 min
Response: 3516404
Conc: 21.74 ug/ml



#12 Fluoranthene (C21.85)

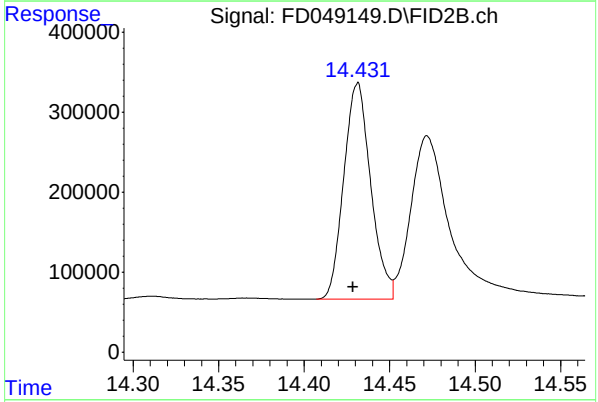
R.T.: 12.268 min
Delta R.T.: 0.001 min
Response: 3406381
Conc: 22.07 ug/ml



#13 Pyrene (C20.8)

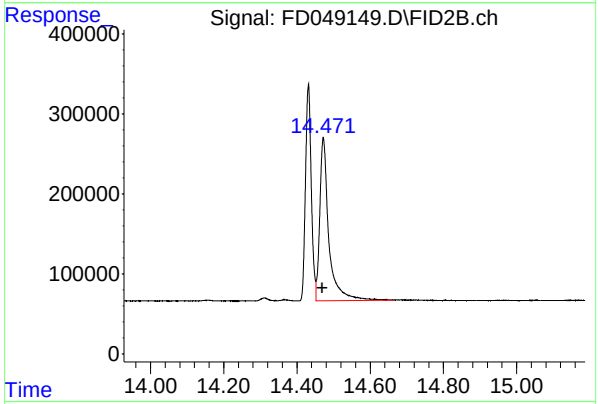
R.T.: 12.560 min
Delta R.T.: 0.002 min
Response: 3338059
Conc: 21.67 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



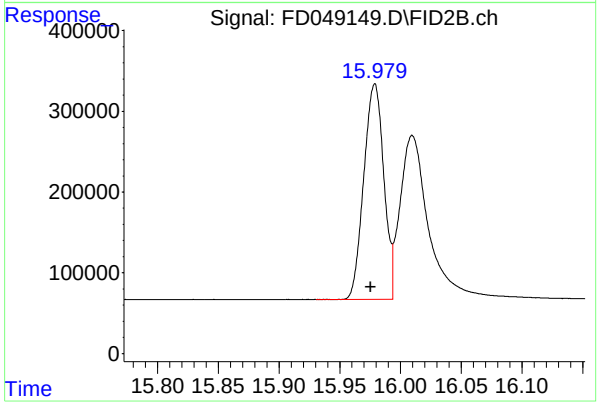
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.431 min
Delta R.T.: 0.003 min
Response: 2962829
Conc: 22.55 ug/ml



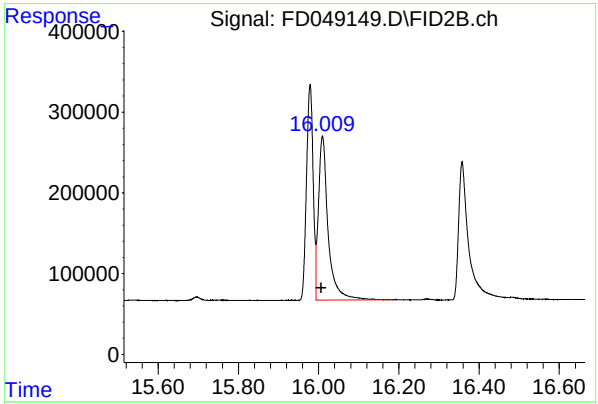
#15 Chrysene (C27.41)

R.T.: 14.472 min
Delta R.T.: 0.003 min
Response: 3493330
Conc: 21.61 ug/ml



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

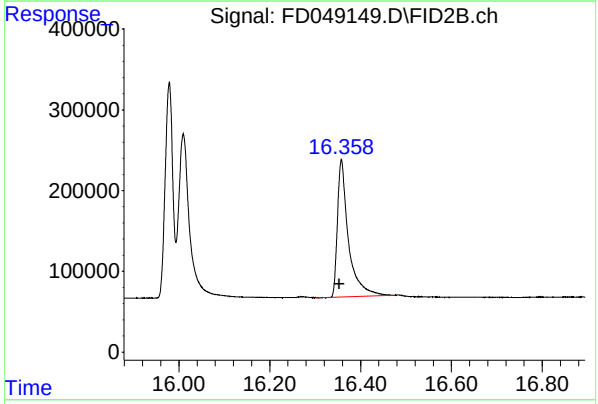
R.T.: 15.979 min
Delta R.T.: 0.003 min
Response: 3063160
Conc: 22.26 ug/ml



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

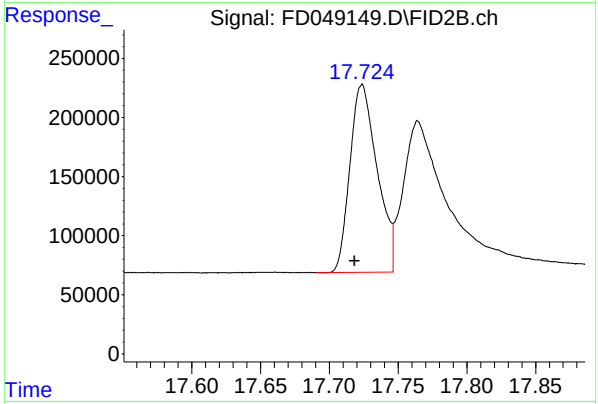
R.T.: 16.010 min
Delta R.T.: 0.004 min
Response: 3396369
Conc: 21.50 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



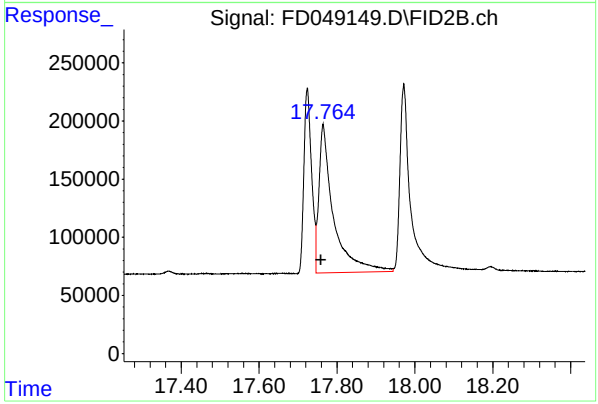
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.358 min
Delta R.T.: 0.004 min
Response: 2853122
Conc: 21.02 ug/ml



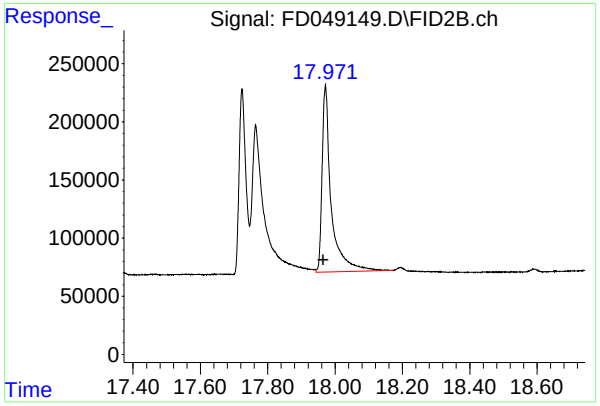
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.724 min
Delta R.T.: 0.005 min
Response: 2187483
Conc: 20.02 ug/ml



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

R.T.: 17.764 min
Delta R.T.: 0.005 min
Response: 3318186
Conc: 21.39 ug/ml



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

R.T.: 17.972 min
Delta R.T.: 0.006 mi
Response: 3034725
Conc: 20.94 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
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 021125.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	4.174	4.130	4.287	BB	380598	3482094	98.25%	5.201%
2	5.692	5.639	5.869	BB	322834	3491614	98.52%	5.215%
3	6.738	6.709	6.925	VB	289466	3436502	96.96%	5.132%
4	7.351	7.304	7.492	BB	286209	3112938	87.83%	4.649%
5	8.002	7.960	8.142	BB	329991	3538476	99.84%	5.285%
6	8.202	8.157	8.271	BV	160039	1935781	54.62%	2.891%
7	8.295	8.271	8.387	VV	346026	3544219	100.00%	5.293%
8	9.076	8.975	9.237	BB	283289	3414145	96.33%	5.099%
9	10.463	10.369	10.517	BV	305602	3285846	92.71%	4.907%
10	10.540	10.517	10.625	VV	232207	3144239	88.71%	4.696%
11	11.233	11.107	11.304	BV	324629	3516404	99.22%	5.252%
12	12.268	12.241	12.434	VV	259716	3406381	96.11%	5.087%
13	12.560	12.510	12.652	BV	265565	3338059	94.18%	4.985%
14	14.431	14.407	14.452	BV	272185	2962829	83.60%	4.425%
15	14.472	14.452	14.662	VB	204003	3493330	98.56%	5.217%
16	15.979	15.930	15.994	BV	266949	3063160	86.43%	4.575%
17	16.010	15.994	16.185	VB	202882	3396369	95.83%	5.073%
18	16.358	16.302	16.471	BV	169879	2853122	80.50%	4.261%
19	17.724	17.690	17.746	BV	158941	2187483	61.72%	3.267%
20	17.764	17.746	17.944	VV	127973	3318186	93.62%	4.956%
21	17.972	17.944	18.172	VV	161265	3034725	85.62%	4.532%
			Sum of corrected areas:			66955900		

Aromatic EPH 021125.M Sat Mar 01 03:56:54 2025

Evaluate Continuing Calibration Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049149.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:50
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: Mar 01 02:23:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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	159.254	174.105 E3	-9.3	112	0.00
2	T	Naphthalene (C11.7)	158.788	174.581 E3	-9.9	111	0.00
3	T	2-Methylnaphthalene (C12.89	155.693	171.825 E3	-10.4	111	0.00
4	S	2-Bromonaphthalene (SURR)	143.109	155.647 E3	-8.8	110	0.00
5	T	Acenaphthylene (C15.06)	162.606	176.924 E3	-8.8	111	0.00
6	S	2-Flurobiphenyl (SURR)	87.912	96.789 E3	-10.1	109	0.00
7	T	Acenaphthene (C15.5)	164.509	177.211 E3	-7.7	110	0.00
8	T	Flouorene (C16.55)	157.649	170.707 E3	-8.3	109	0.00
9	T	Phenanthrene (C19.36)	150.701	164.292 E3	-9.0	110	0.00
10	T	Anthracene (C19.43)	151.028	157.212 E3	-4.1	104	0.00
11	S	ortho-Terphenyl (SURR)	161.774	175.820 E3	-8.7	111	0.00
12	T	Fluoranthene (C21.85)	154.315	170.319 E3	-10.4	111	0.00
13	T	Pyrene (C20.8)	154.058	166.903 E3	-8.3	111	0.00
14	T	Benzo[a]anthracene (C26.37)	131.390	148.141 E3	-12.7	110	0.00
15	T	Chrysene (C27.41)	161.687	174.666 E3	-8.0	112	0.00
16	T	benzo[b]fluoranthene (C30.4	137.594	153.158 E3	-11.3	109	0.00
17	T	Bnezo[k]fluoranthene (C30.1	157.942	169.818 E3	-7.5	112	0.00
18	T	Benzo[a]pyrene (C31.34)	135.737	142.656 E3	-5.1	106	0.00
19	T	Indeno[1,2,3-cd]pyrene (C35	109.277	109.374 E3	-0.1	102	0.00
20	T	Dibenz[a,h]anthracene (C30.	155.140	165.909 E3	-6.9	107	0.00
21	T	Benzo[g,h,i]perylene (C34.0	144.951	151.736 E3	-4.7	107	0.00

Evaluate Continuing Calibration Report - Not Founds

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

QC SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166883BL	SDG No.:	Q1421
Lab Sample ID:	PB166883BL	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
02/26/25 11:45	02/27/25 10:26	PB166883

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	FC068306.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068306.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068306.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068306.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068306.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD049115.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD049115.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD049115.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD049115.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:		
Project:	RFP 905		Date Received:		
Client Sample ID:	PB166883BL		SDG No.:	Q1421	
Lab Sample ID:	PB166883BL		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
FC068306.D	1	02/26/25	02/27/25	PB166883

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)	31.9		40 - 140	64%	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:	PB166883BL	Acq On:	27 Feb 2025 10:26
Client Sample ID:	PB166883BL	Operator:	YP/AJ
Data file:	FC068306.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	3.104	6.370	0	0	300	ug/ml
Aliphatic C12-C16	6.371	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.108	0	0	300	ug/ml
Aliphatic C21-C28	13.109	16.762	0	0	400	ug/ml
Aliphatic C28-C40	16.763	21.566	0	0	600	ug/ml
Aliphatic EPH	3.104	21.566	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.842	12.842	3594009	31.95		ug/ml
Aliphatic C9-C28	3.104	16.762	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068306.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 10:26
Operator : YP/AJ
Sample : PB166883BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166883BL

Integration File: autoint1.e
Quant Time: Mar 05 04:43:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.842	3594009	31.954 ug/ml
Spiked Amount 50.000		Recovery = 63.91%	
Target Compounds			

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

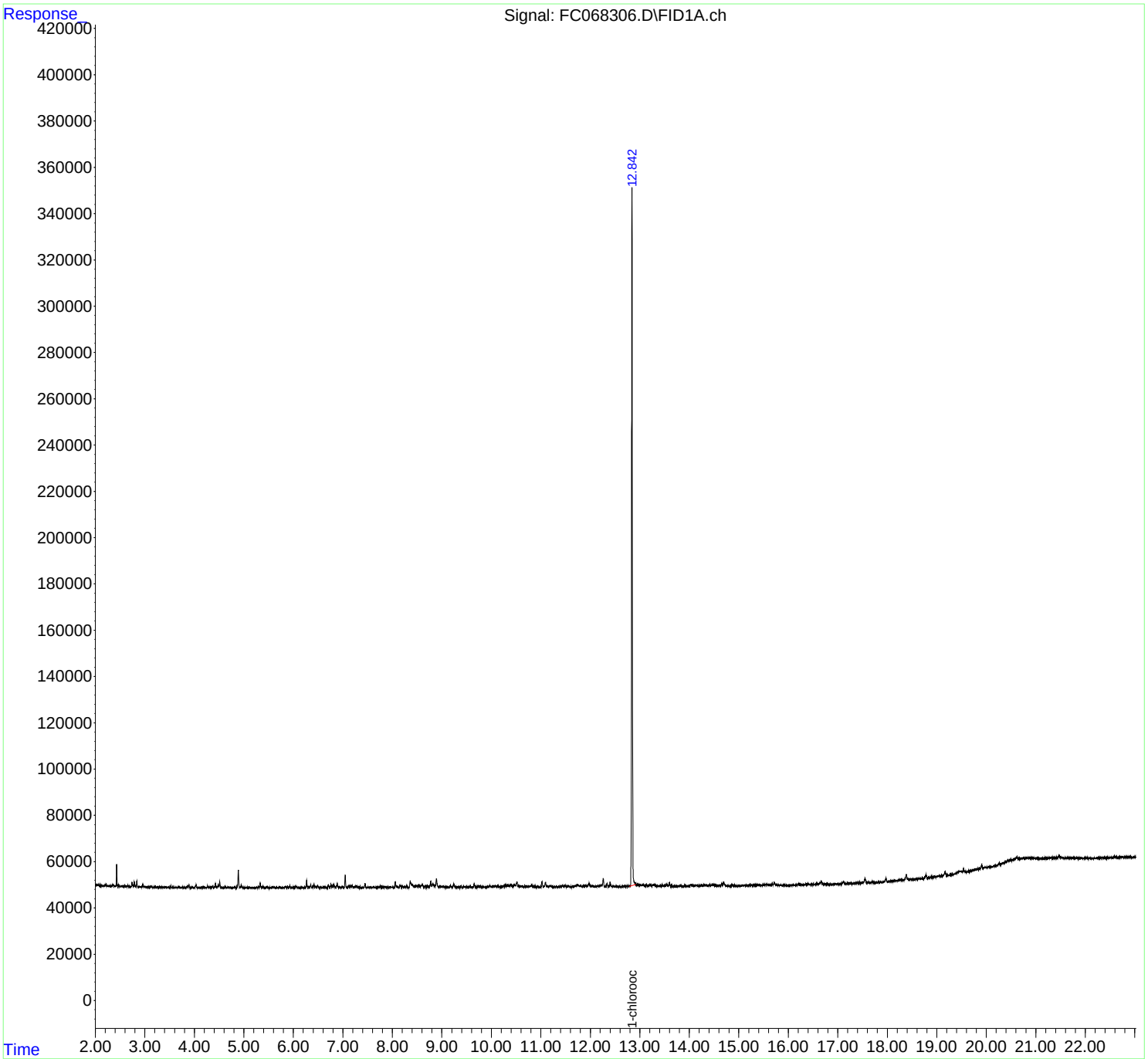
Quantitation Report (QT Reviewed)

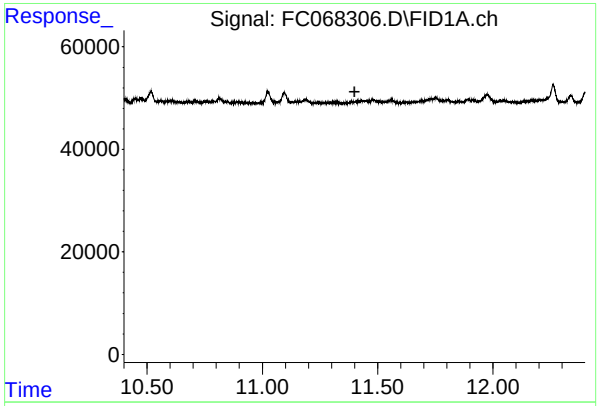
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068306.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 10:26
Operator : YP/AJ
Sample : PB166883BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166883BL

Integration File: autoint1.e
Quant Time: Mar 05 04:43:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

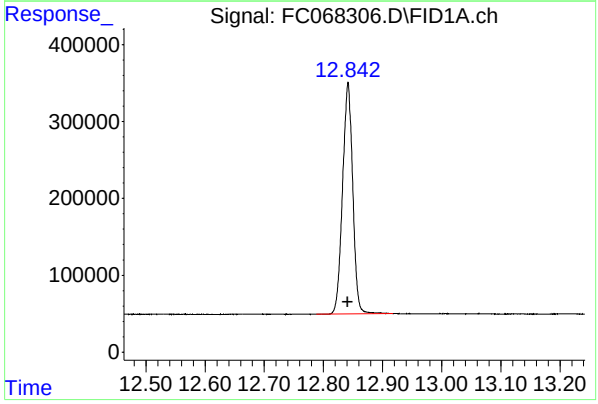




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166883BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 3594009
Conc: 31.95 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068306.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 10:26
Sample : PB166883BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	12.842	12.788	12.918	BB	298386	3594009	100.00%	100.000%

Sum of corrected areas: 3594009

Aliphatic EPH 021125.M Fri Feb 28 01:08:09 2025

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 905		Date Received:		
Client Sample ID:	PB166883BL		SDG No.:	Q1421	
Lab Sample ID:	PB166883BL		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
FD049115.D	1	02/26/25	02/27/25	PB166883

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)	55.3		40 - 140	111%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.2		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.2		40 - 140	98%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166883BL	Acq On:	27 Feb 2025 10:26
Client Sample ID:	PB166883BL	Operator:	YP/AJ
Data file:	FD049115.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.397	0	0	300	ug/ml
Aromatic C16-C21	8.398	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.071	0	0	800	ug/ml
Aromatic EPH	4.076	18.071	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.348	7.348	7914407	55.3		ug/ml
2-Flurobiphenyl (SURR)	8.198	8.198	4940373	56.2		ug/ml
ortho-Terphenyl (SURR)	11.235	11.235	7954591	49.17		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049115.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 10:26
Operator : YP/AJ
Sample : PB166883BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166883BL

Integration File: autoint1.e
Quant Time: Feb 28 01:25:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.348	7914407	55.303 ug/ml
Spiked Amount 50.000		Recovery = 110.61%	
6) S 2-Flurobiphenyl (SURR)	8.198	4940373	56.197 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.39%	
11) S ortho-Terphenyl (SURR)	11.235	7954591	49.171 ug/ml
Spiked Amount 50.000		Recovery = 98.34%	
Target Compounds			

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

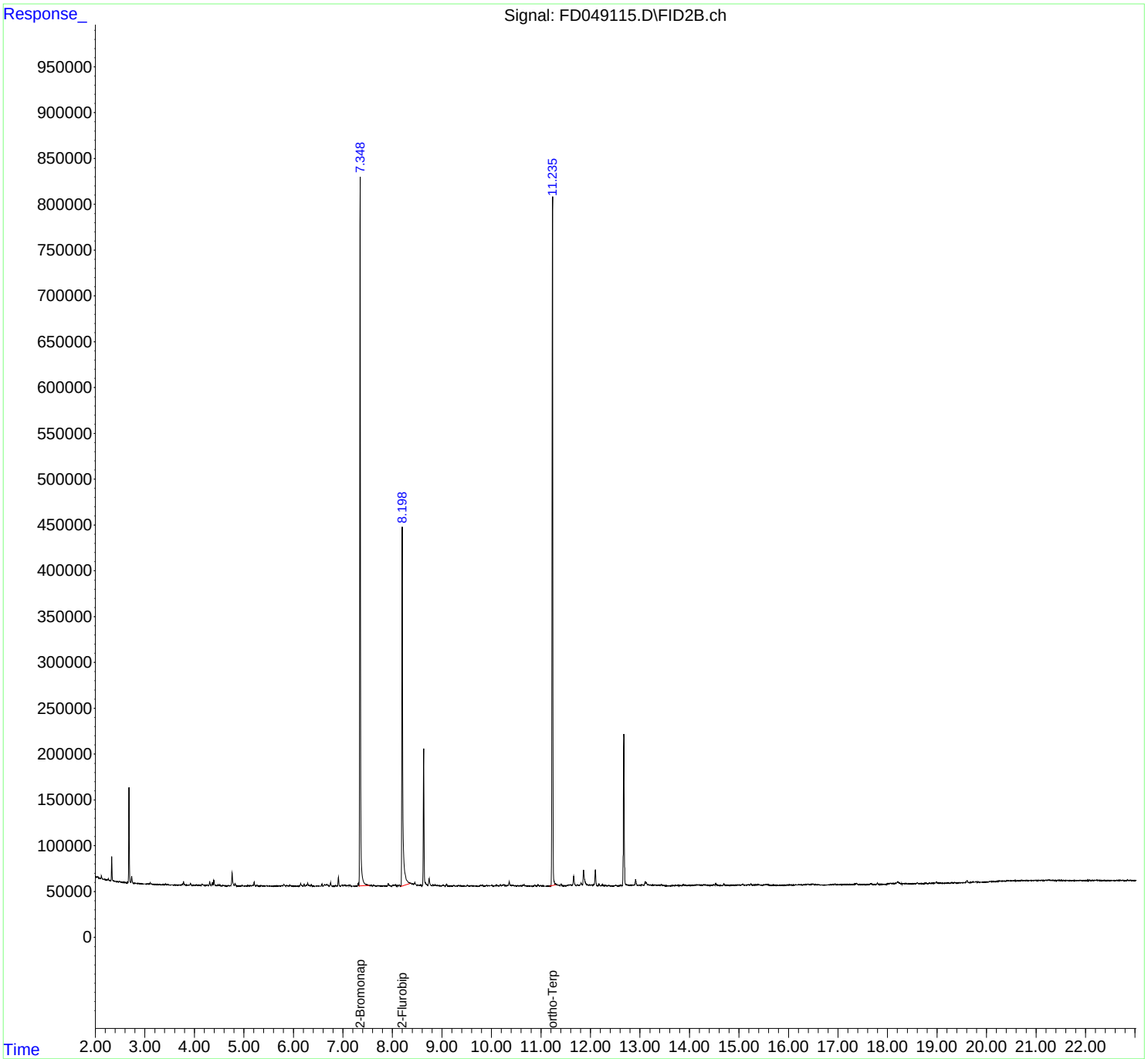
Quantitation Report (QT Reviewed)

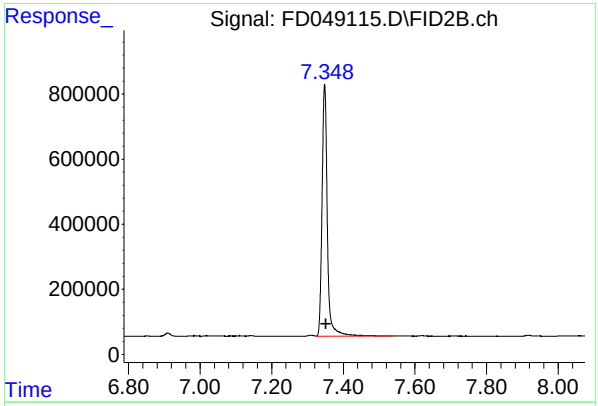
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049115.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 10:26
Operator : YP/AJ
Sample : PB166883BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166883BL

Integration File: autoint1.e
Quant Time: Feb 28 01:25:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

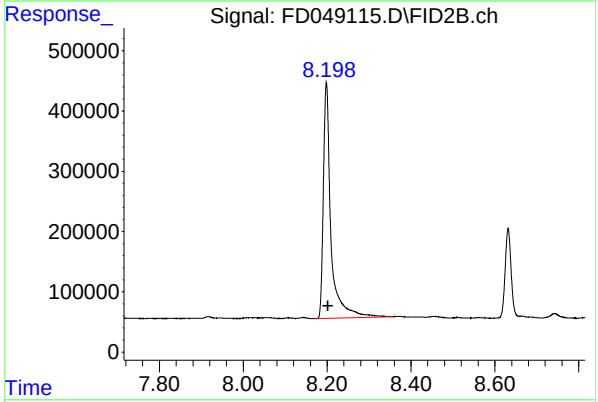




#4 2-Bromonaphthalene (SURR)

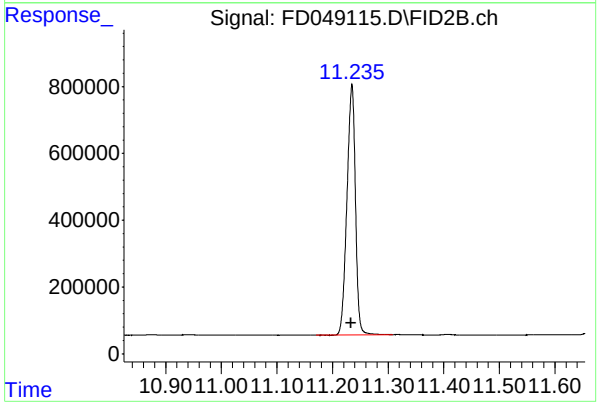
R.T.: 7.348 min
Delta R.T.: -0.003 min
Response: 7914407
Conc: 55.30 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.198 min
Delta R.T.: -0.004 min
Response: 4940373
Conc: 56.20 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.235 min
Delta R.T.: 0.002 min
Response: 7954591
Conc: 49.17 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049115.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 10:26
Sample : PB166883BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	7.348	7.324	7.539	VB	773170	7914407	99.49%	38.033%
2	8.198	8.174	8.357	BV	391513	4940373	62.11%	23.741%
3	11.235	11.170	11.309	BV	752234	7954591	100.00%	38.226%
			Sum of corrected areas:			20809371		

Aromatic EPH 021125.M Fri Feb 28 01:56:26 2025

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 905			Date Received:	
Client Sample ID:	PB166923BL			SDG No.:	Q1421
Lab Sample ID:	PB166923BL			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 11:00	PB166923

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	FC068322.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC068322.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC068322.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC068322.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC068322.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD049130.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD049130.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD049130.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.66	mg/kg	FD049130.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.00	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 905	Date Received:	
Client Sample ID:	PB166923BL	SDG No.:	Q1421
Lab Sample ID:	PB166923BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068322.D	1	02/27/25	02/28/25	PB166923

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)		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:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FC068322.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	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4680251	41.61		ug/ml
Aliphatic C9-C28	3.104	16.761	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	4680251	41.612 ug/ml
Spiked Amount 50.000		Recovery = 83.22%	
Target Compounds			

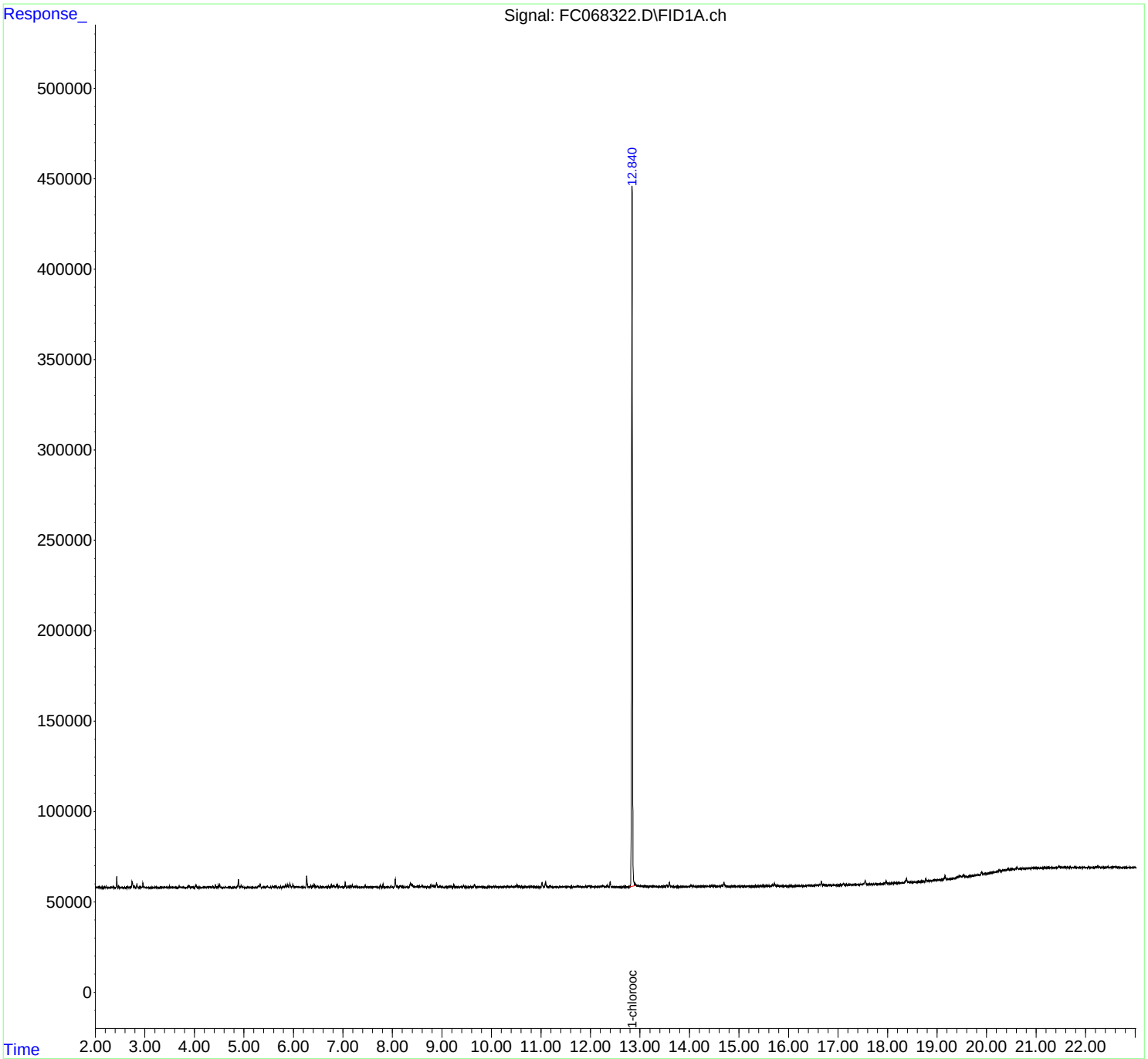
(f)=RT Delta > 1/2 Window (m)=manual int.

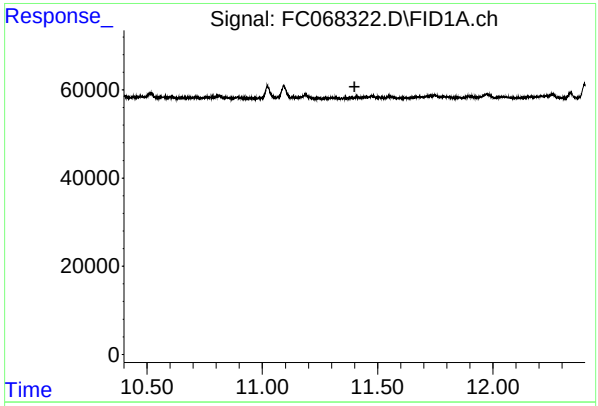
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 05 05:22:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

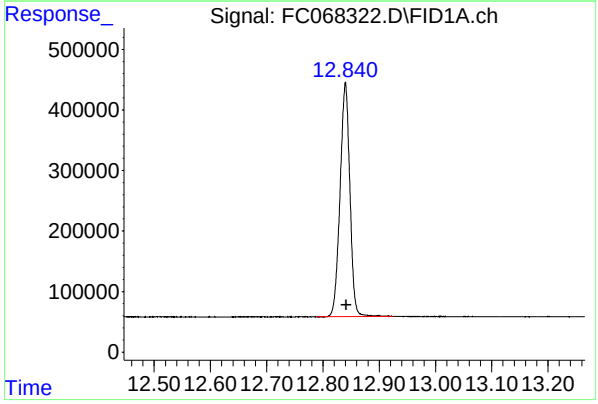




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166923BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 4680251
Conc: 41.61 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068322.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	12.840	12.788	12.925	BB	386372	4680251	100.00%	100.000%

Sum of corrected areas: 4680251

Aliphatic EPH 021125.M Sat Mar 01 01:22:54 2025

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 905		Date Received:		
Client Sample ID:	PB166923BL		SDG No.:	Q1421	
Lab Sample ID:	PB166923BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049130.D	1	02/27/25	02/28/25	PB166923

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	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.0		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.8		40 - 140	116%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.7		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:	PB166923BL	Acq On:	28 Feb 2025 11:00
Client Sample ID:	PB166923BL	Operator:	YP/AJ
Data file:	FD049130.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	0	0		ug/ml
ortho-Terphenyl (SURR)	11.236	11.236	8041222	49.71		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8010402	55.97		ug/ml
2-Flurobiphenyl (SURR)	8.201	8.201	5081253	57.8		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	8010402	55.974 ug/ml
Spiked Amount 50.000		Recovery = 111.95%	
6) S 2-Flurobiphenyl (SURR)	8.201	5081253	57.799 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 115.60%	
11) S ortho-Terphenyl (SURR)	11.236	8041222	49.706 ug/ml
Spiked Amount 50.000		Recovery = 99.41%	
Target Compounds			

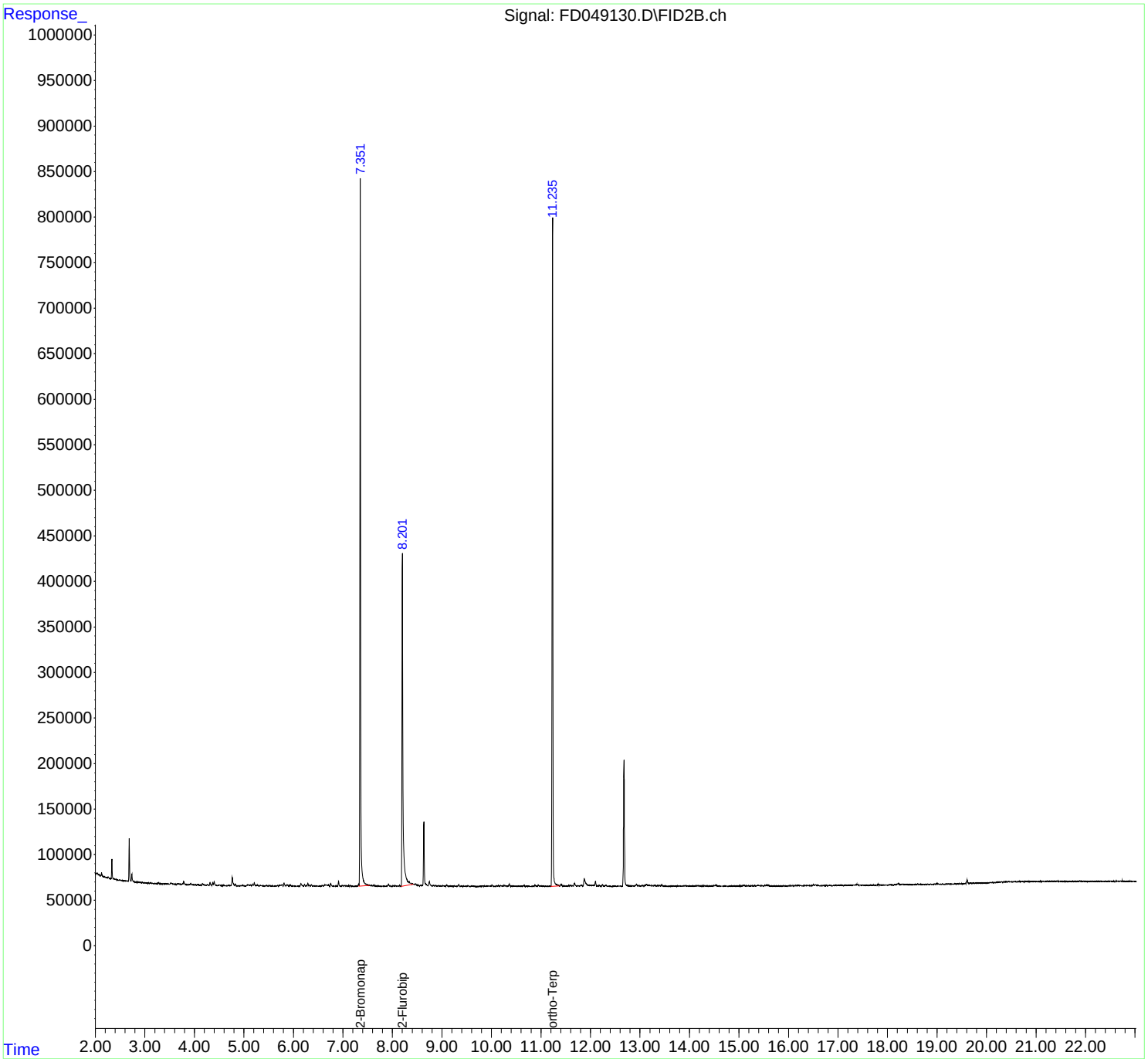
(f)=RT Delta > 1/2 Window (m)=manual int.

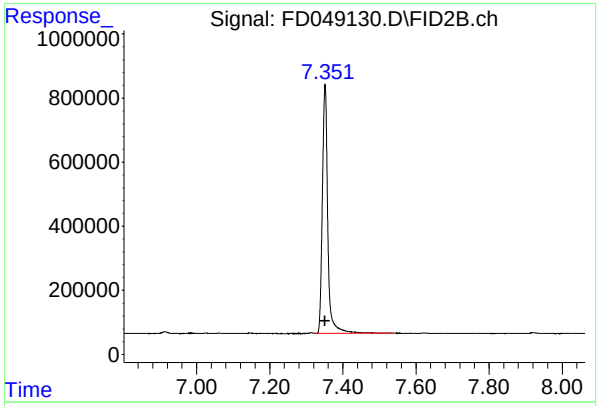
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Operator : YP/AJ
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BL

Integration File: autoint1.e
Quant Time: Mar 01 02:16:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

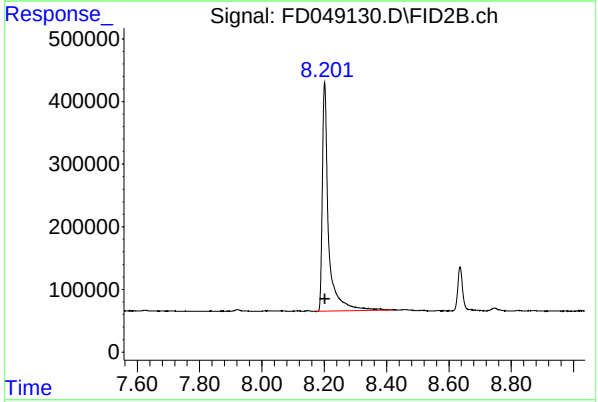




#4 2-Bromonaphthalene (SURR)

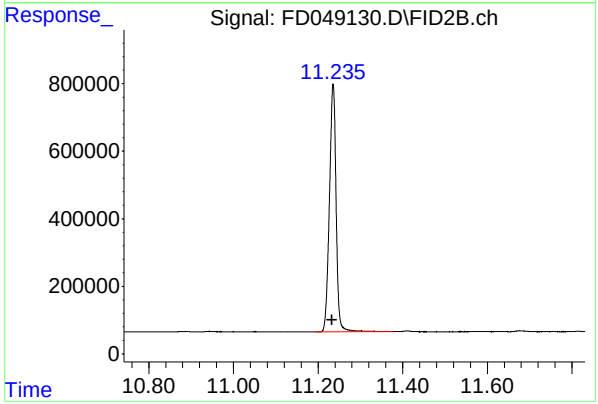
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8010402
Conc: 55.97 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.201 min
Delta R.T.: 0.000 min
Response: 5081253
Conc: 57.80 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.236 min
Delta R.T.: 0.002 min
Response: 8041222
Conc: 49.71 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049130.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:00
Sample : PB166923BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	7.352	7.327	7.537	VB	776735	8010402	99.62%	37.905%
2	8.201	8.174	8.420	PB	364991	5081253	63.19%	24.044%
3	11.236	11.195	11.377	BB	734702	8041222	100.00%	38.051%

Sum of corrected areas: 21132876

Aromatic EPH 021125.M Sat Mar 01 03:51:24 2025

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:	10 Feb 2025 15:48
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068251.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	3.107	6.373	0	0	300	ug/ml
Aliphatic C12-C16	6.374	9.756	0	0	200	ug/ml
Aliphatic C16-C21	9.757	13.110	0	0	300	ug/ml
Aliphatic C21-C28	13.111	16.762	0	0	400	ug/ml
Aliphatic C28-C40	16.763	21.563	0	0	600	ug/ml
Aliphatic EPH	3.107	21.563	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	3.107	16.762	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068251.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 15:48
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: Feb 11 02:33:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
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

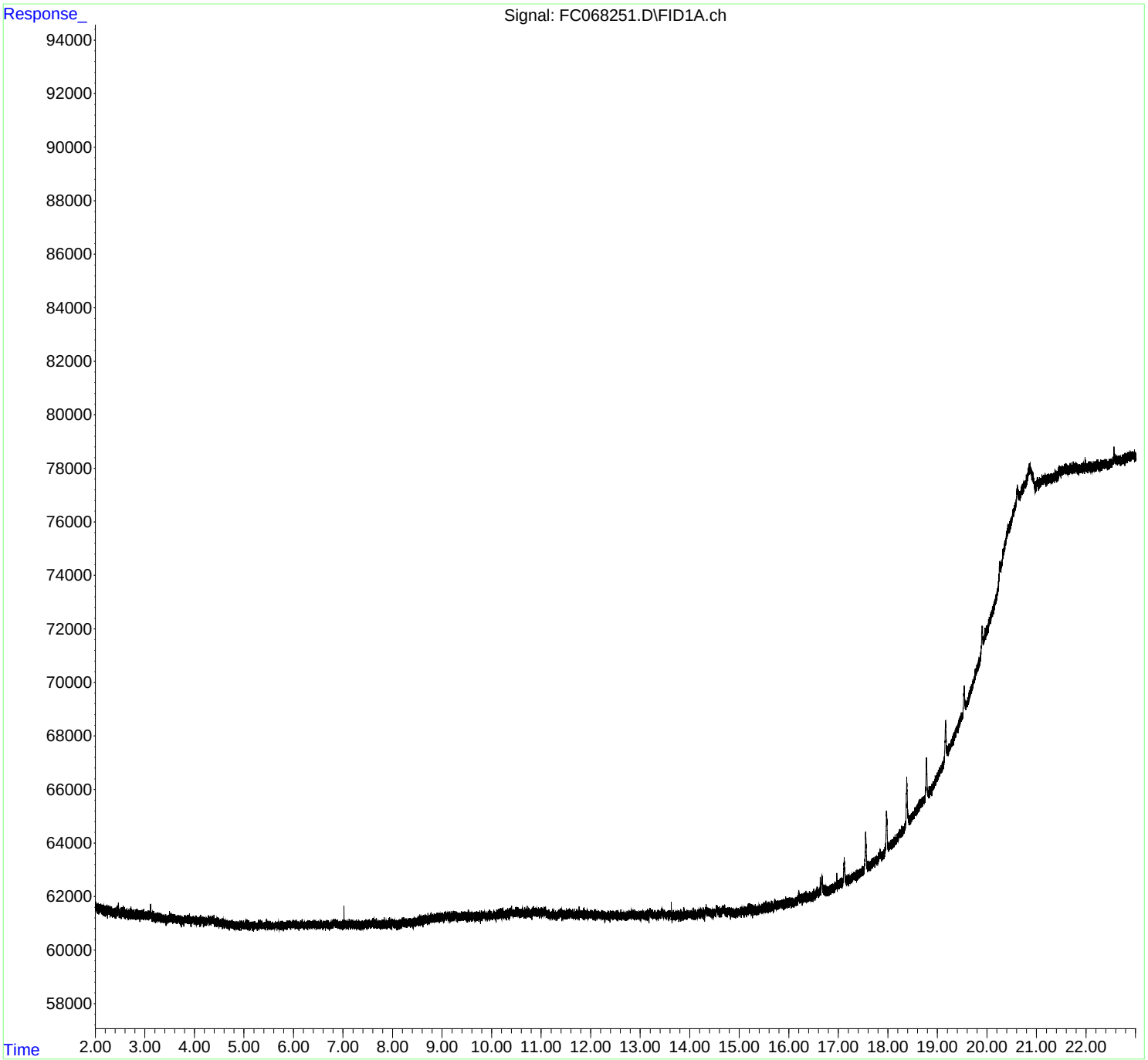
(f)=RT Delta > 1/2 Window (m)=manual int.

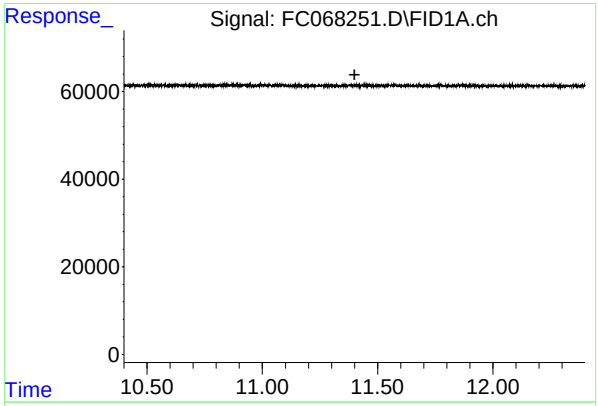
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068251.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 15:48
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 11 02:33:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Tue Feb 11 02:29:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

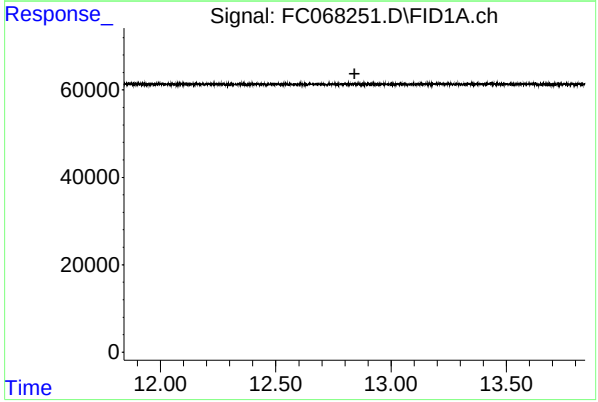




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC021125AL\
Data File : FC068251.D
Signal(s) : FID1A.ch
Acq On : 10 Feb 2025 15:48
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Tue Feb 11 02:38:40 2025

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:	27 Feb 2025 07:22
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068304.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	3.104	6.370	0	0	300	ug/ml
Aliphatic C12-C16	6.371	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.108	0	0	300	ug/ml
Aliphatic C21-C28	13.109	16.762	0	0	400	ug/ml
Aliphatic C28-C40	16.763	21.566	0	0	600	ug/ml
Aliphatic EPH	3.104	21.566	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	3.104	16.762	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068304.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 07:22
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: Feb 28 00:23:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
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

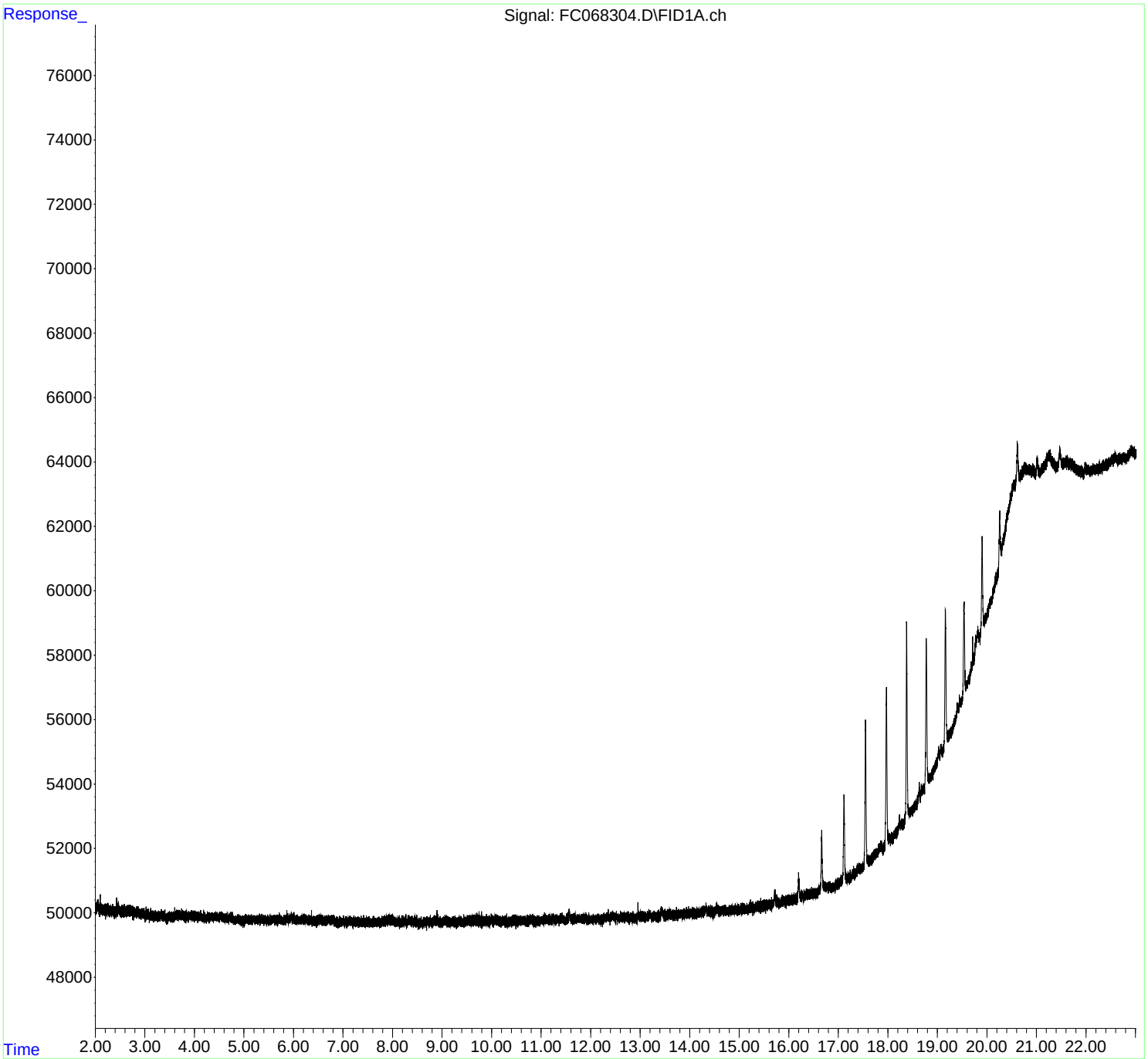
(f)=RT Delta > 1/2 Window (m)=manual int.

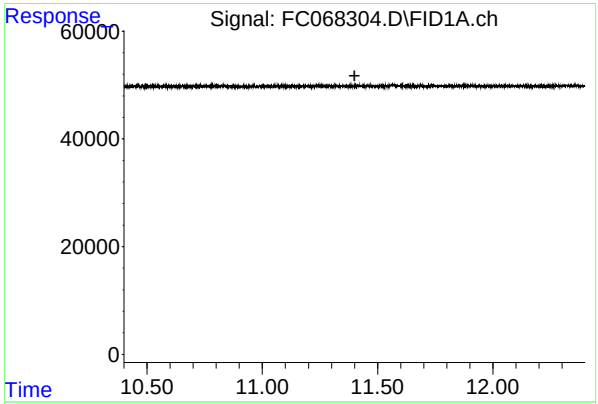
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068304.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 07:22
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 28 00:23:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

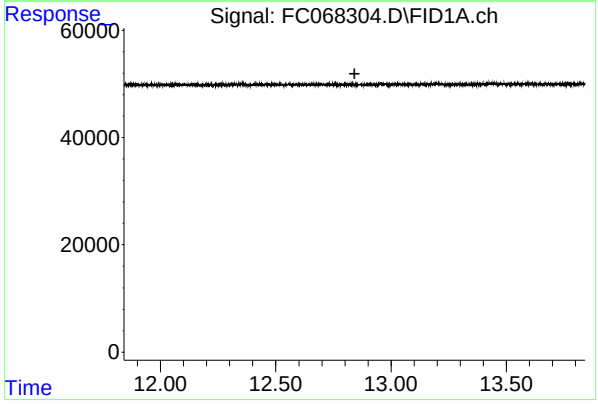




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068304.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 07:22
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Fri Feb 28 01:07:38 2025

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:	27 Feb 2025 12:50
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068310.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	3.104	6.370	0	0	300	ug/ml
Aliphatic C12-C16	6.371	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.108	0	0	300	ug/ml
Aliphatic C21-C28	13.109	16.762	0	0	400	ug/ml
Aliphatic C28-C40	16.763	21.566	0	0	600	ug/ml
Aliphatic EPH	3.104	21.566	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	3.104	16.762	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068310.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 12:50
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: Feb 28 00:25:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
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.

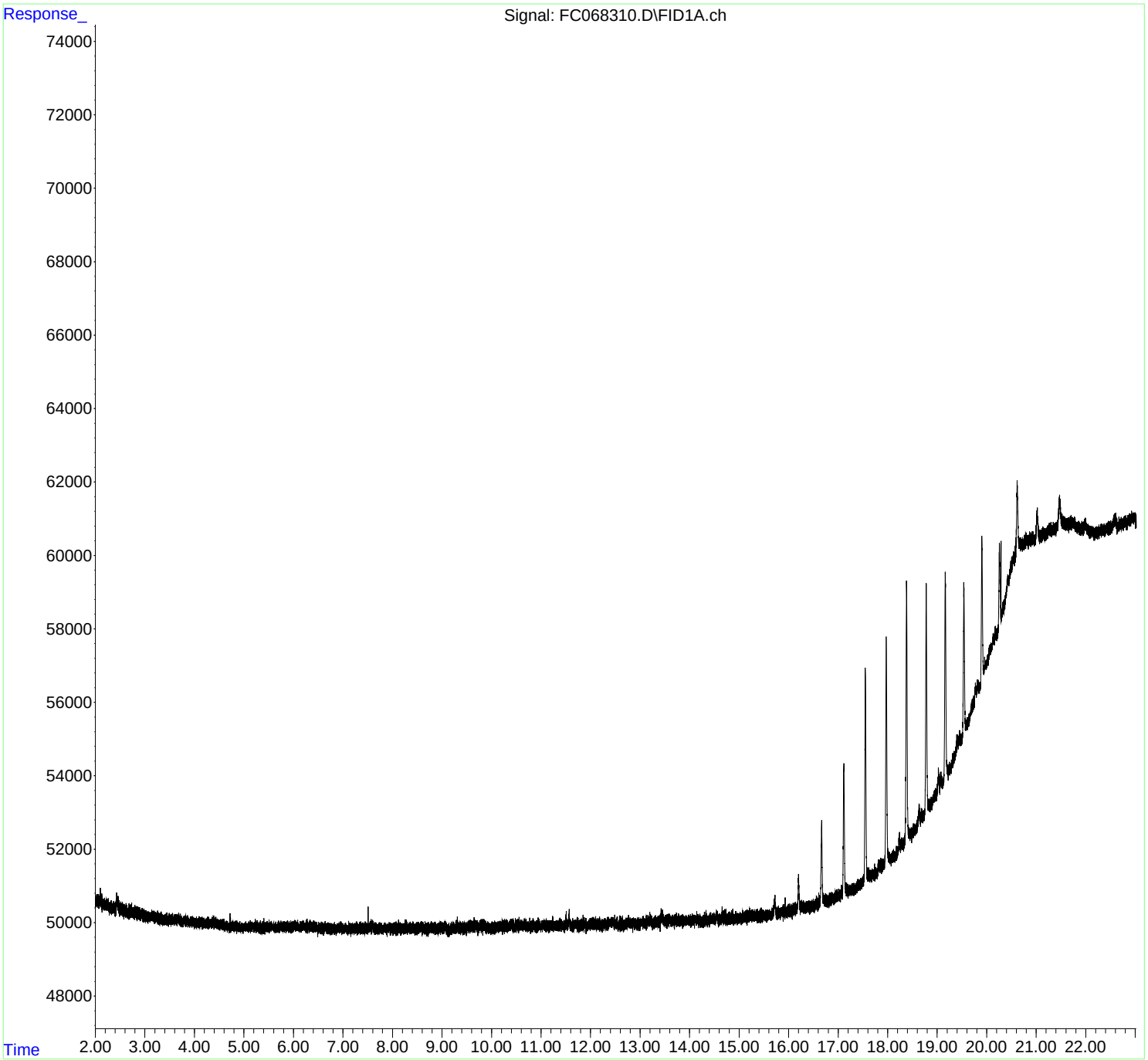
Quantitation Report (QT Reviewed)

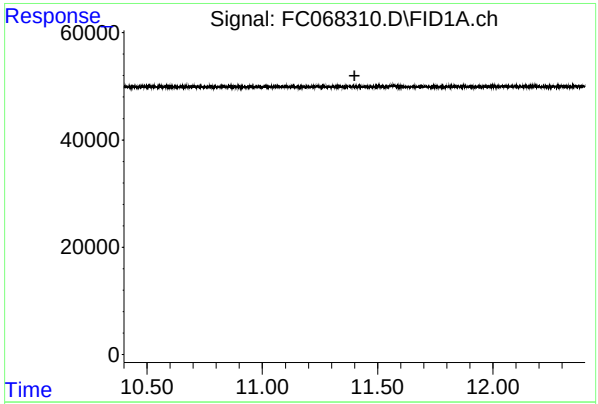
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068310.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 12:50
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 28 00:25:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

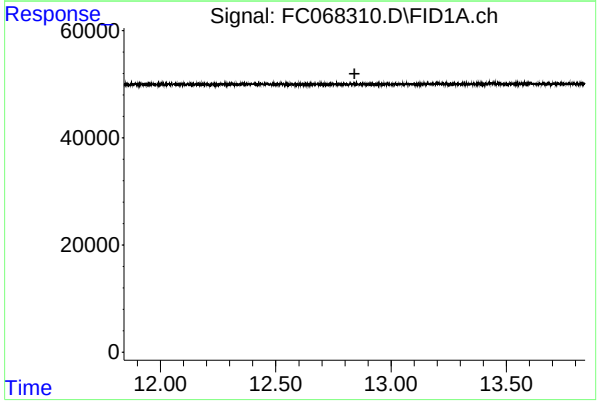




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068310.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 12:50
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Fri Feb 28 01:09:50 2025

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:	27 Feb 2025 17:08
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068317.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	3.104	6.370	0	0	300	ug/ml
Aliphatic C12-C16	6.371	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.108	0	0	300	ug/ml
Aliphatic C21-C28	13.109	16.762	0	0	400	ug/ml
Aliphatic C28-C40	16.763	21.566	0	0	600	ug/ml
Aliphatic EPH	3.104	21.566	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	3.104	16.762	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068317.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:08
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: Feb 28 00:28:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
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.

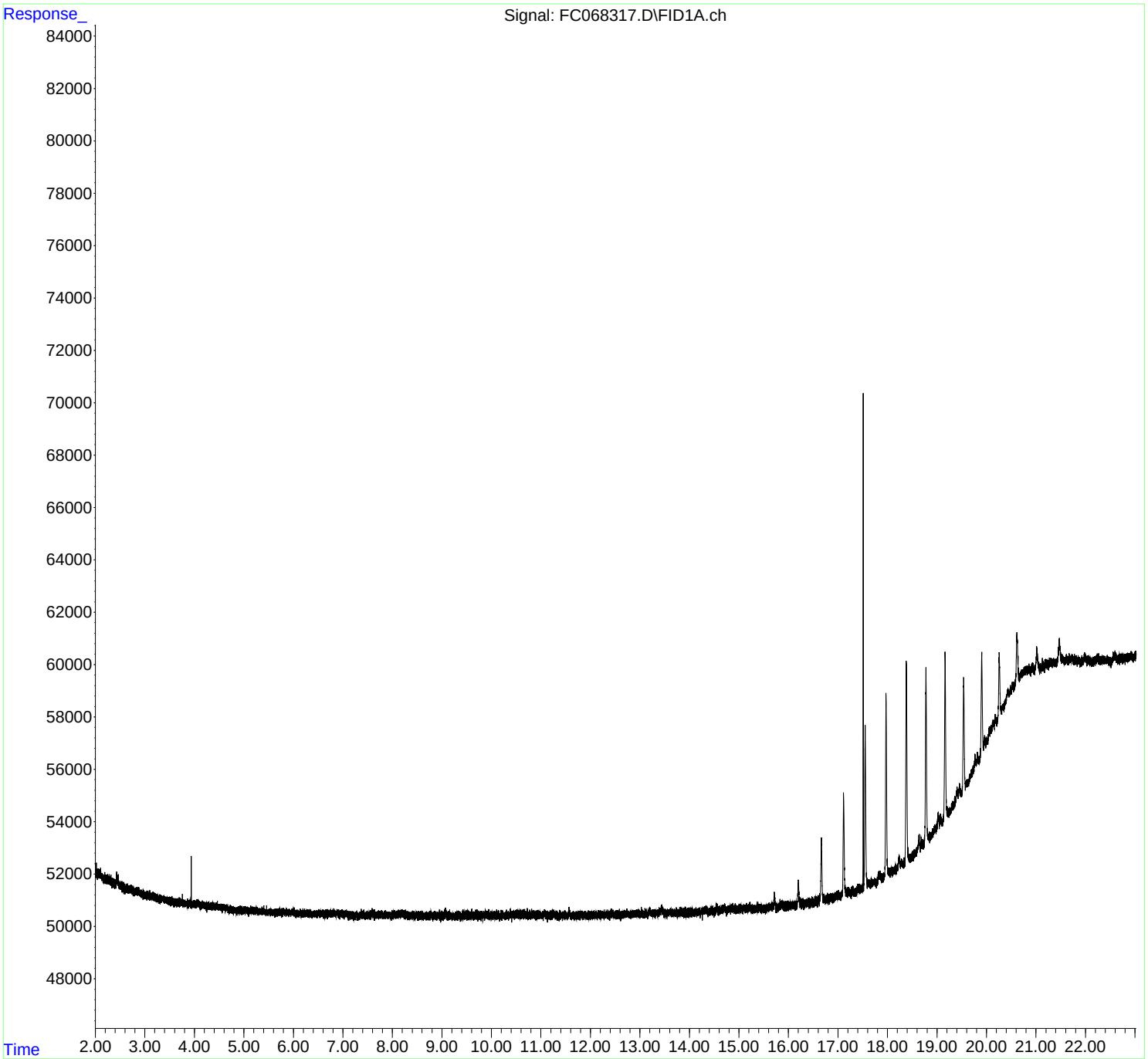
Quantitation Report (QT Reviewed)

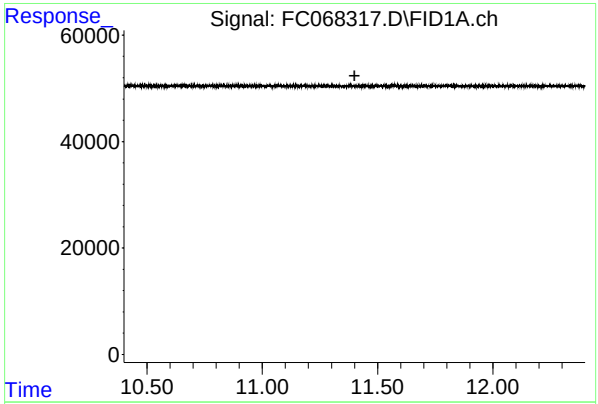
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068317.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:08
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 28 00:28:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

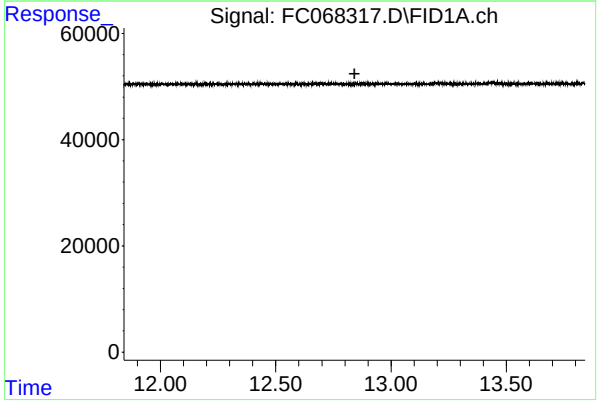




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068317.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 17:08
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Fri Feb 28 01:11:40 2025

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Feb 2025 09:46
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068320.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	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	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	3.104	16.761	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068320.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 09:46
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: Mar 01 00:32:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
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

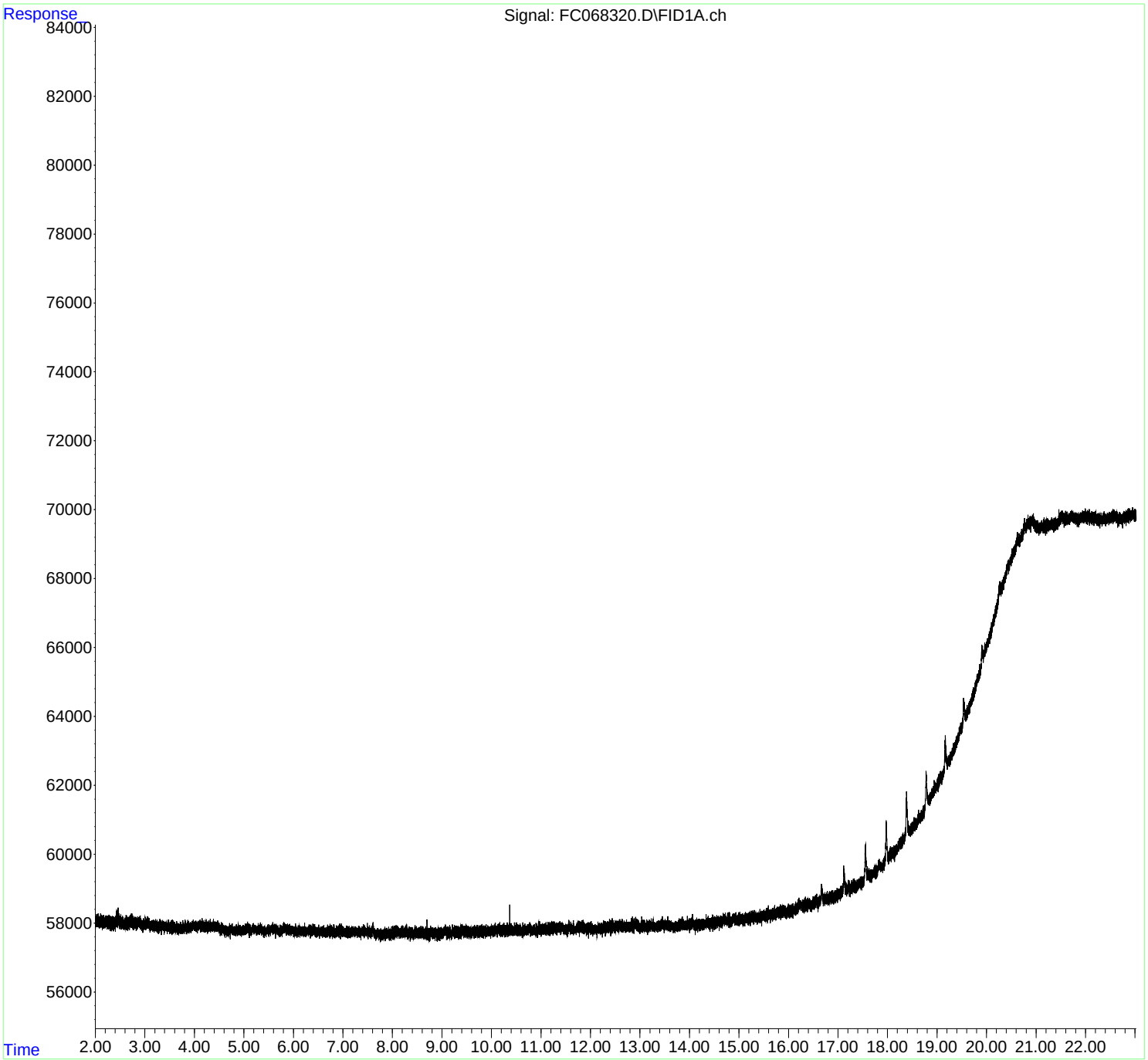
(f)=RT Delta > 1/2 Window (m)=manual int.

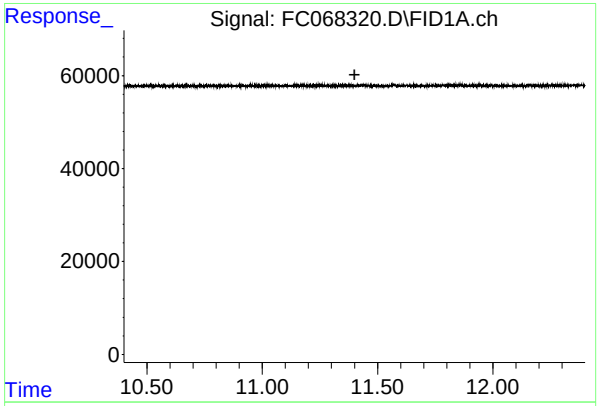
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068320.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 09:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 01 00:32:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

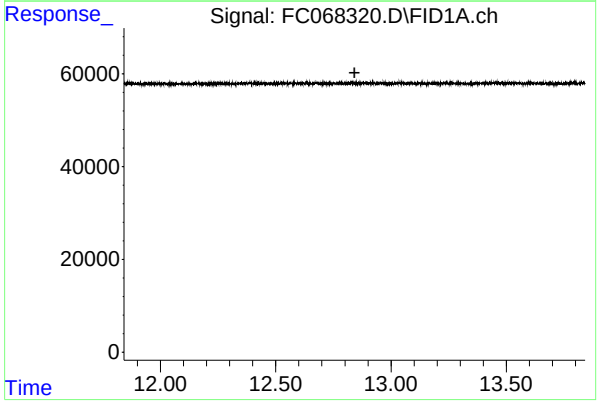




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068320.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 09:46
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Sat Mar 01 01:22:01 2025

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Feb 2025 15:53
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068330.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	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	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	3.104	16.761	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068330.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 15:53
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: Mar 01 00:35:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
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

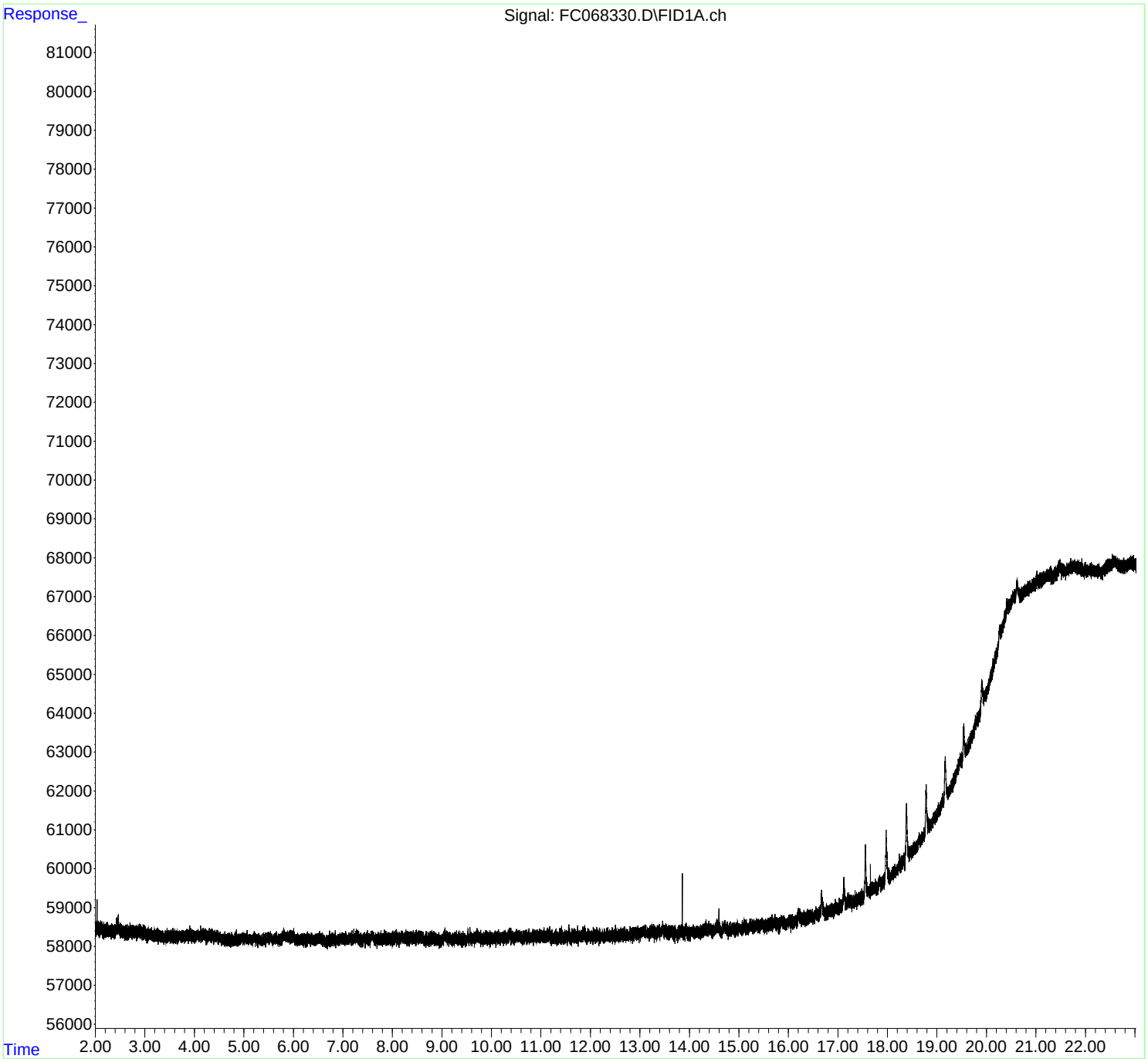
(f)=RT Delta > 1/2 Window (m)=manual int.

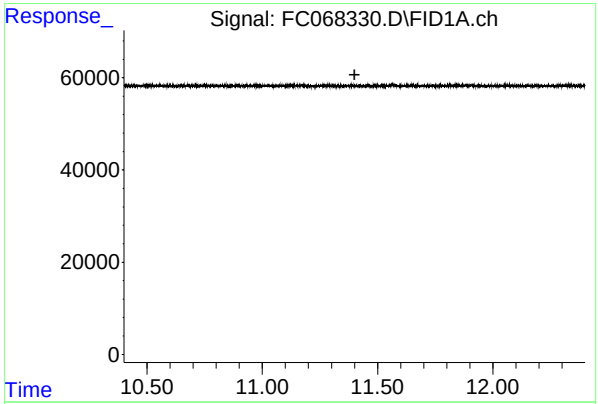
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068330.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 15:53
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 01 00:35:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

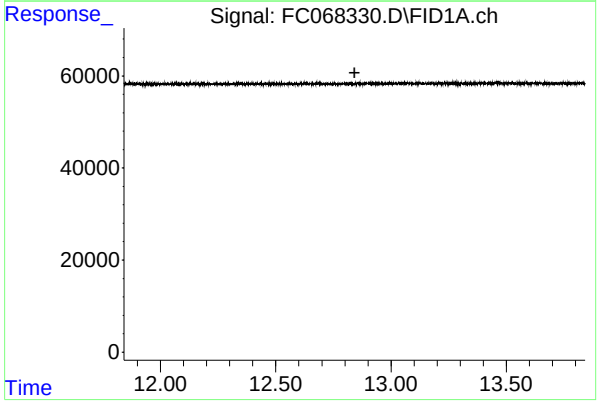




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068330.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 15:53
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Sat Mar 01 01:23:59 2025

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Feb 2025 23:13
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FC068340.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	3.104	6.369	0	0	300	ug/ml
Aliphatic C12-C16	6.370	9.754	0	0	200	ug/ml
Aliphatic C16-C21	9.755	13.107	0	0	300	ug/ml
Aliphatic C21-C28	13.108	16.761	0	0	400	ug/ml
Aliphatic C28-C40	16.762	21.565	0	0	600	ug/ml
Aliphatic EPH	3.104	21.565	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	3.104	16.761	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068340.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:13
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: Mar 01 00:39:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
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

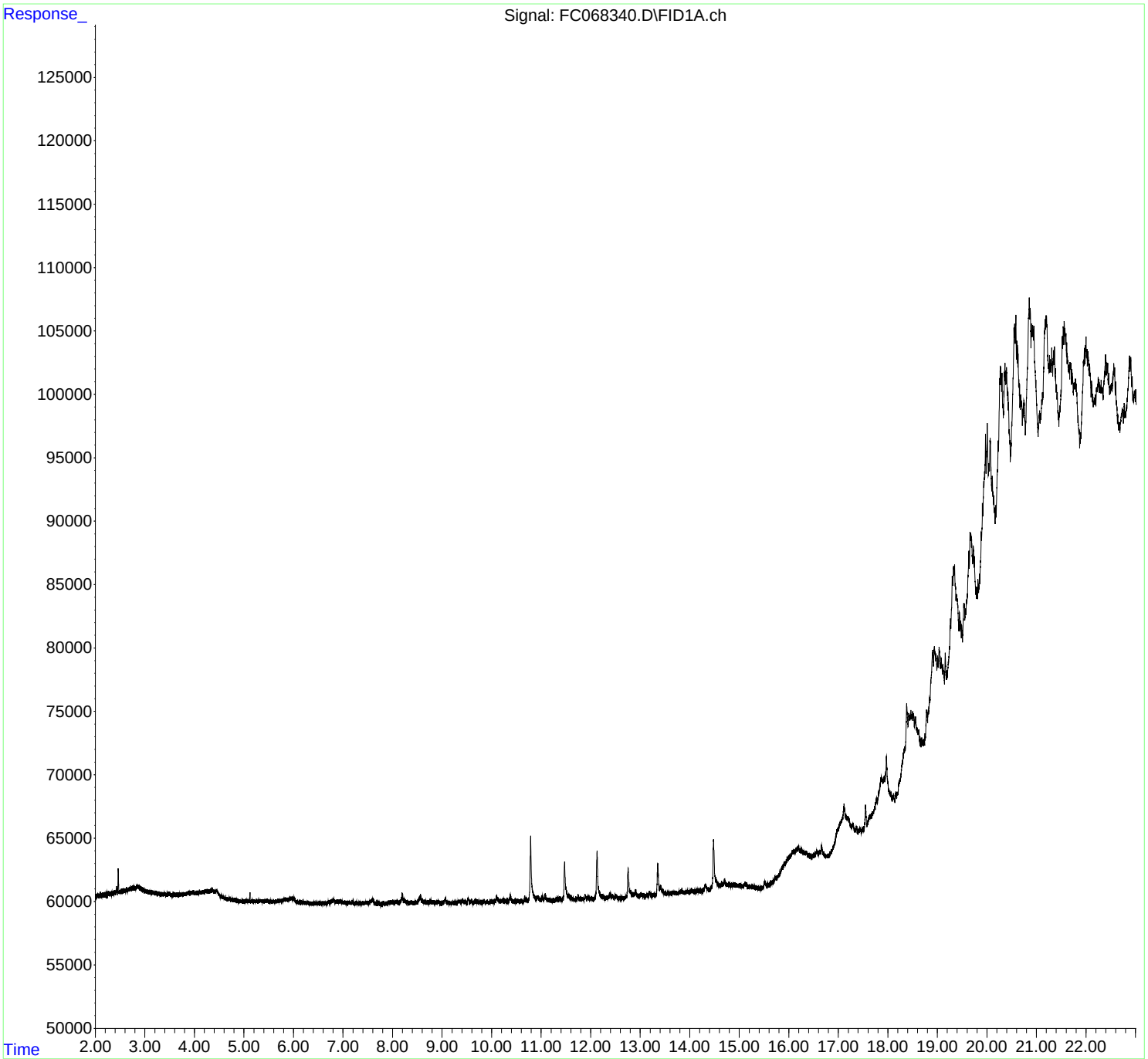
(f)=RT Delta > 1/2 Window (m)=manual int.

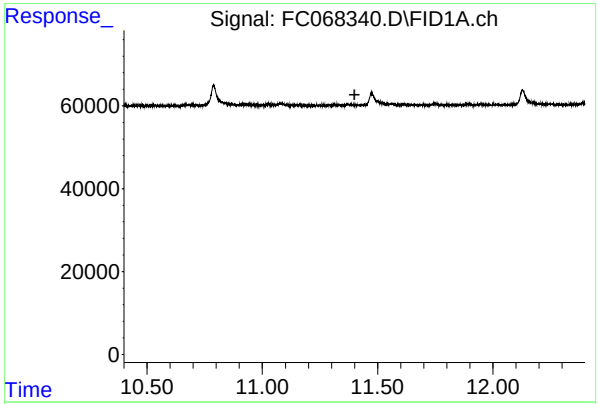
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068340.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:13
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 01 00:39:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:52:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

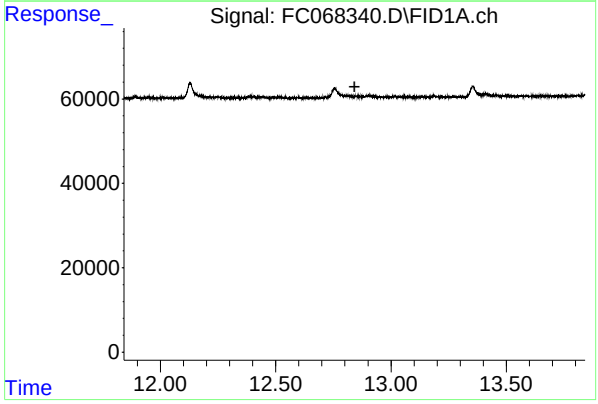




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
I.BLK



#12 1-chlorooctadecane (SURR)

R.T.: 0.000 min
Exp R.T. : 12.842 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068340.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 23:13
Sample : I.BLK
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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 021125.M Sat Mar 01 01:24:47 2025

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:	10 Feb 2025 12:45
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049071.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	4.075	5.793	0	0	200	ug/ml
Aromatic C12-C16	5.794	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.658	0	0	500	ug/ml
Aromatic C21-C36	12.659	18.067	0	0	800	ug/ml
Aromatic EPH	4.075	18.067	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\FD021125AR\
Data File : FD049071.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 12:45
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: Mar 06 03:56:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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

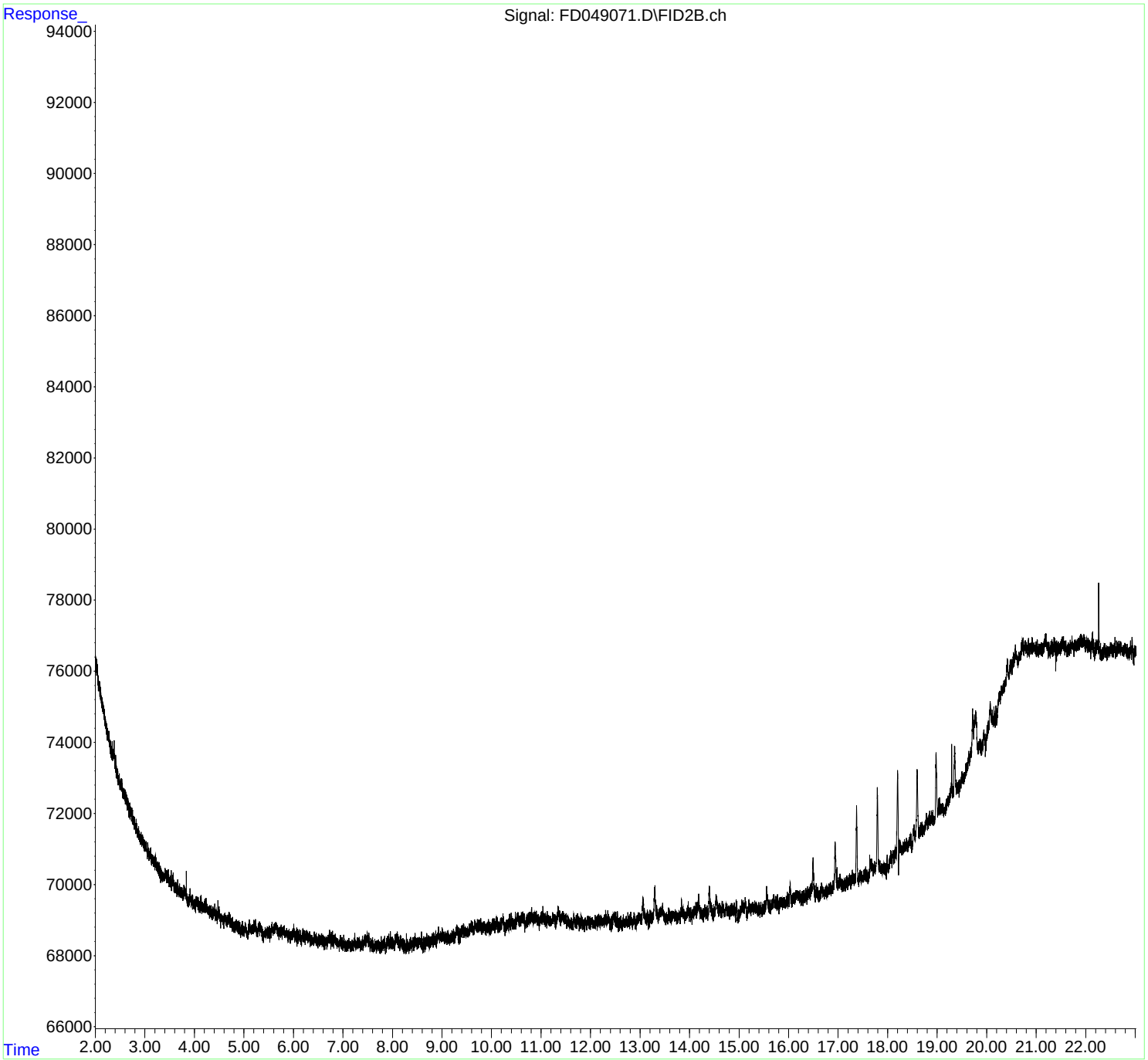
(f)=RT Delta > 1/2 Window (m)=manual int.

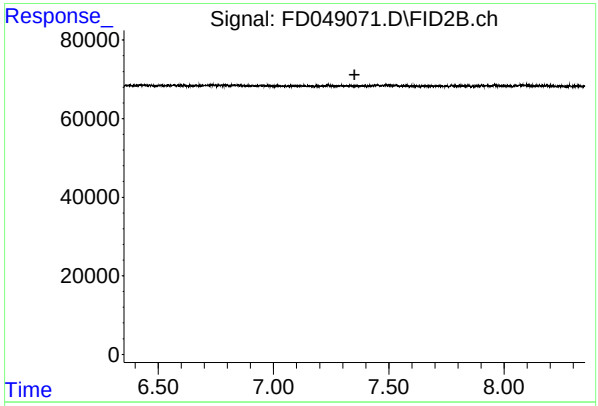
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049071.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 12:45
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 06 03:56:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

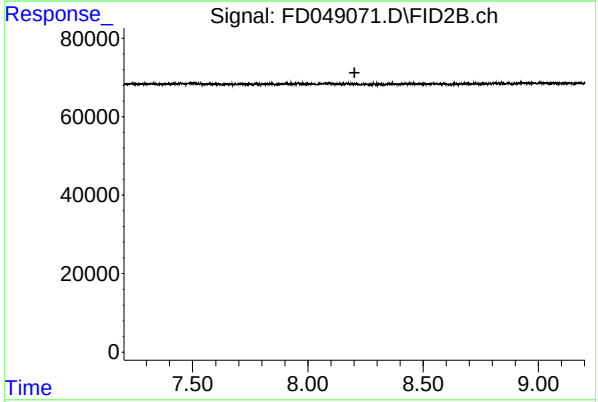




#4 2-Bromonaphthalene (SURR)

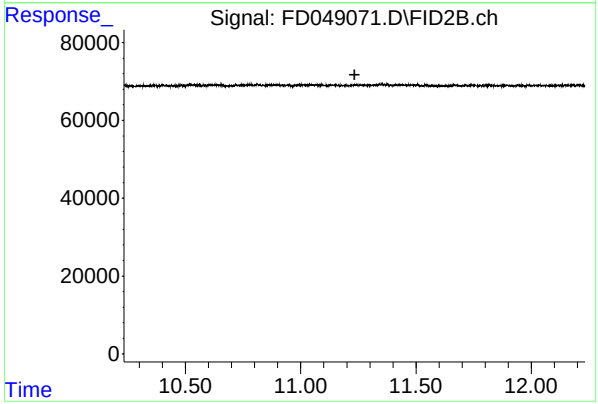
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD021125AR\
Data File : FD049071.D
Signal(s) : FID2B.ch
Acq On : 10 Feb 2025 12:45
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Thu Mar 06 03:57:18 2025

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:	27 Feb 2025 07:22
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049113.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.397	0	0	300	ug/ml
Aromatic C16-C21	8.398	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.071	0	0	800	ug/ml
Aromatic EPH	4.076	18.071	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\FD022725AR\
Data File : FD049113.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 07:22
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: Feb 28 01:24:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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

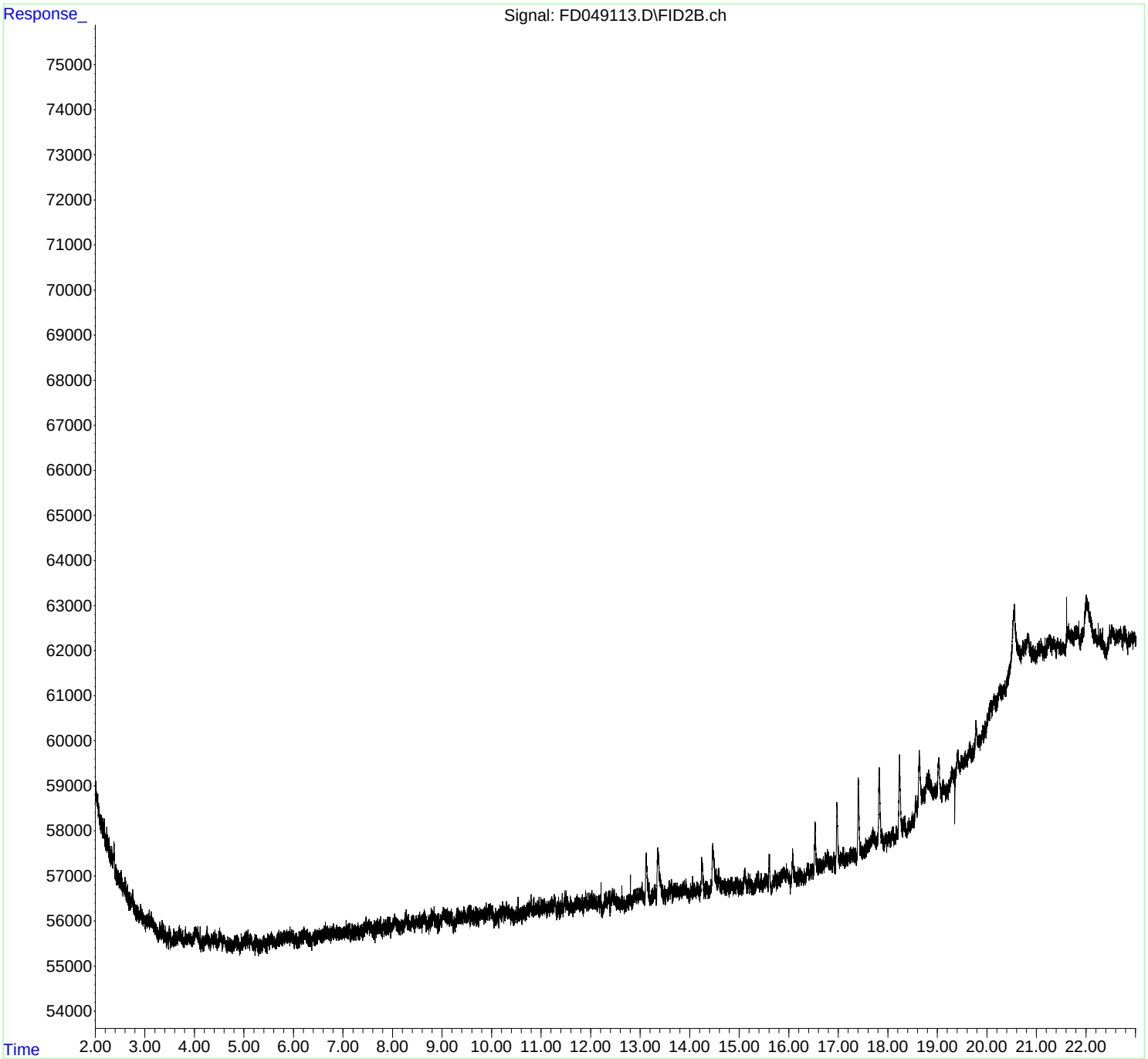
(f)=RT Delta > 1/2 Window (m)=manual int.

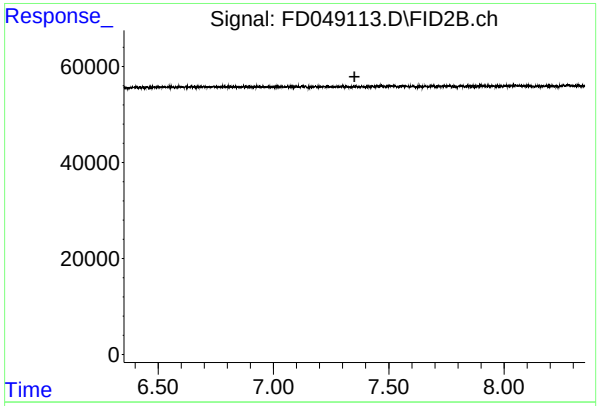
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049113.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 07:22
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 28 01:24:37 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

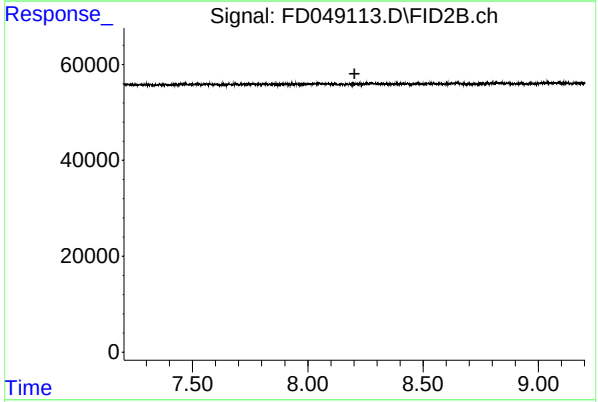




#4 2-Bromonaphthalene (SURR)

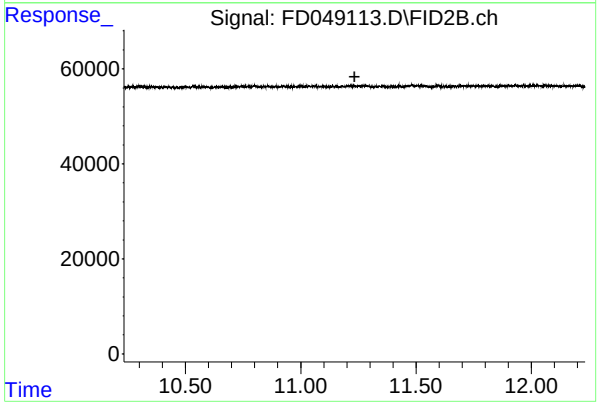
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049113.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 07:22
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Fri Feb 28 01:54:21 2025

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:	27 Feb 2025 12:50
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049119.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.397	0	0	300	ug/ml
Aromatic C16-C21	8.398	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.071	0	0	800	ug/ml
Aromatic EPH	4.076	18.071	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\FD022725AR\
Data File : FD049119.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 12:50
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: Feb 28 01:26:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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

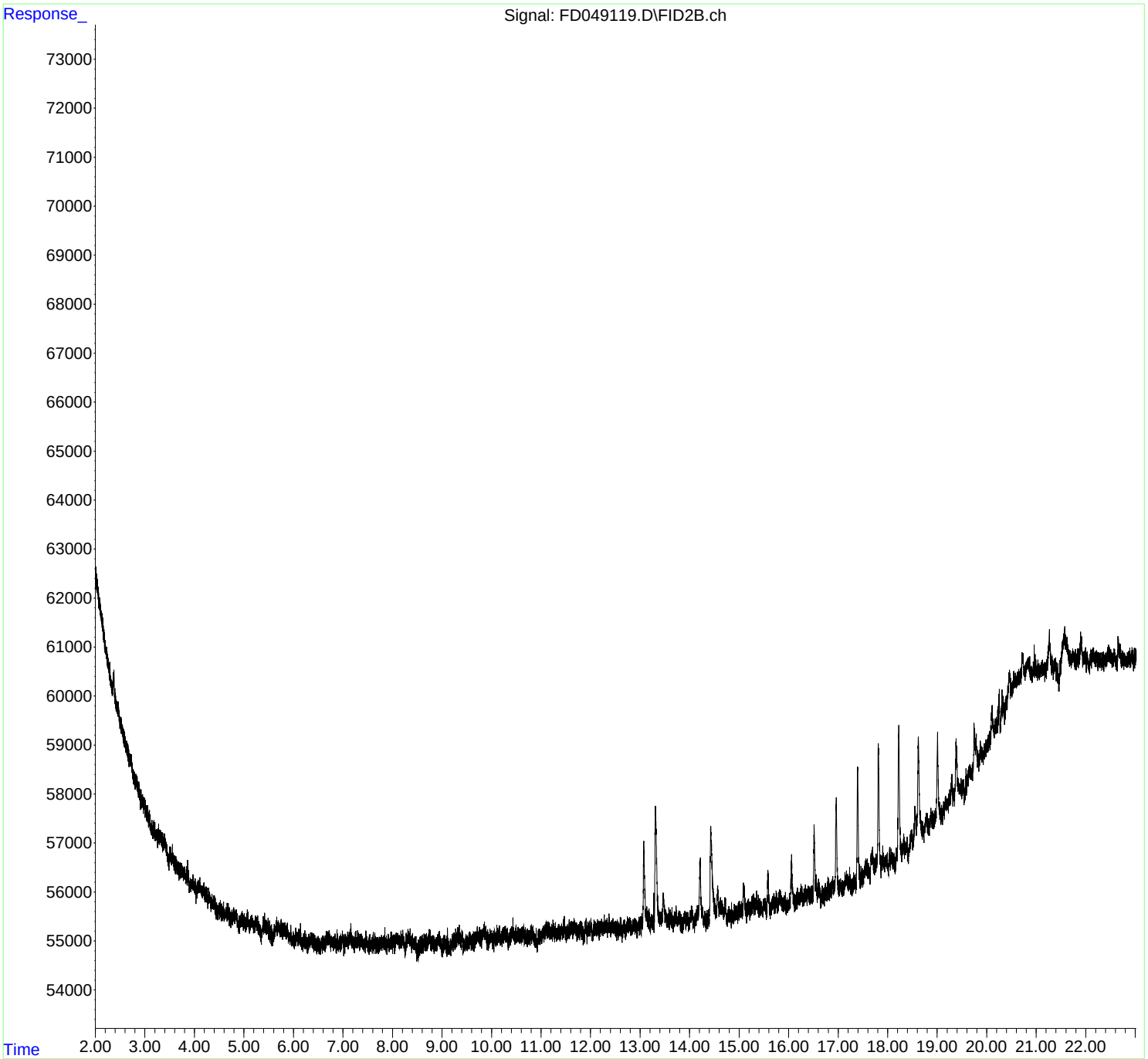
(f)=RT Delta > 1/2 Window (m)=manual int.

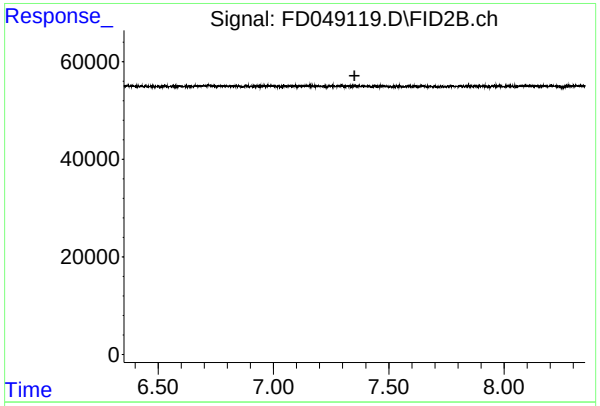
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049119.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 12:50
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 28 01:26:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

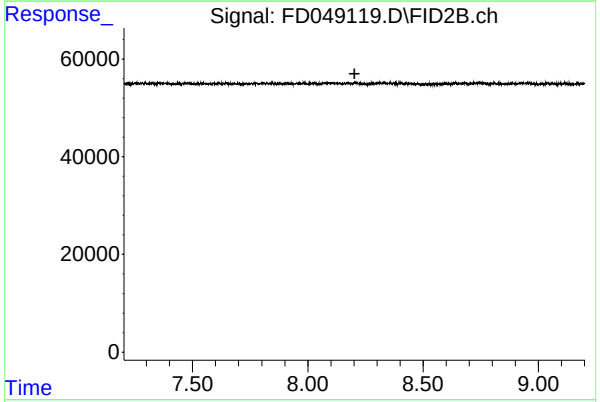




#4 2-Bromonaphthalene (SURR)

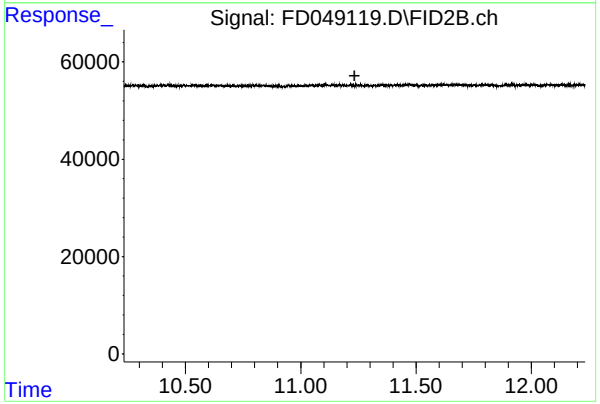
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049119.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 12:50
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Fri Feb 28 01:59:32 2025

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:	27 Feb 2025 17:08
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049125.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.397	0	0	300	ug/ml
Aromatic C16-C21	8.398	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.071	0	0	800	ug/ml
Aromatic EPH	4.076	18.071	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\FD022725AR\
Data File : FD049125.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:08
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: Feb 28 01:28:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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

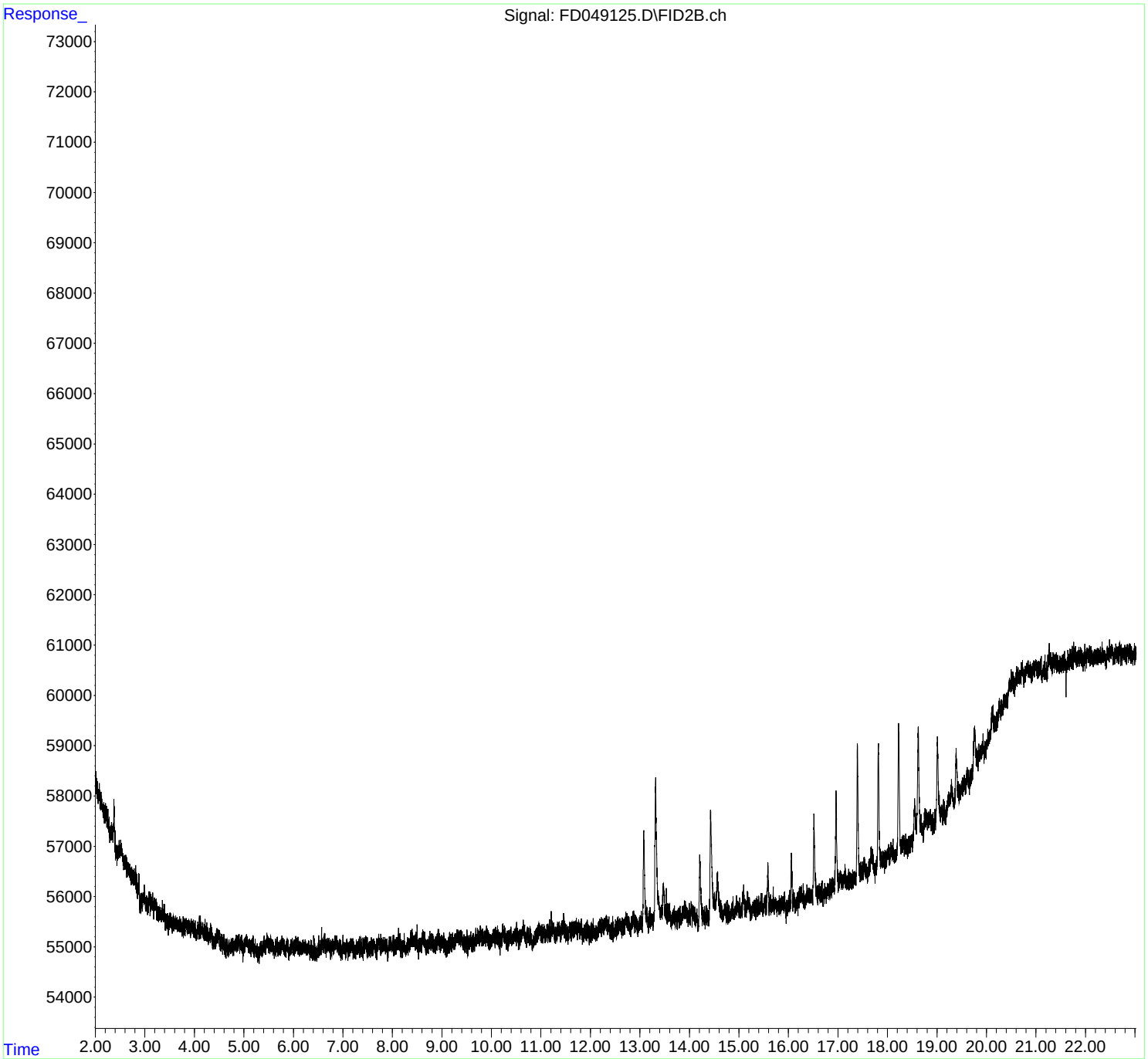
(f)=RT Delta > 1/2 Window (m)=manual int.

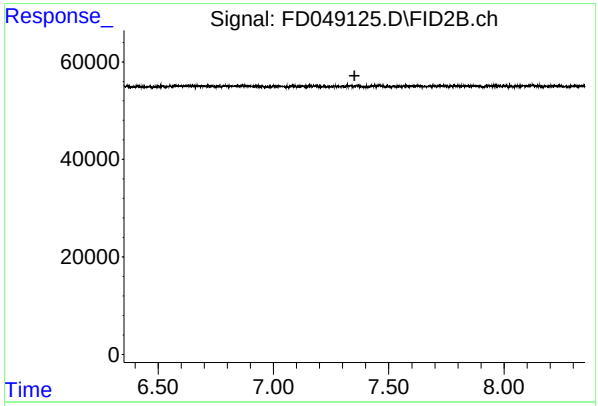
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049125.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:08
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Feb 28 01:28:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

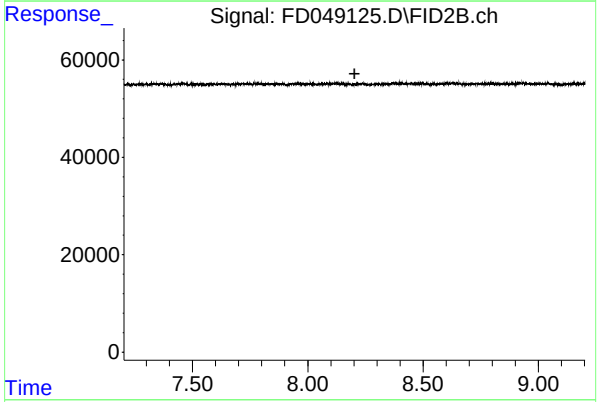




#4 2-Bromonaphthalene (SURR)

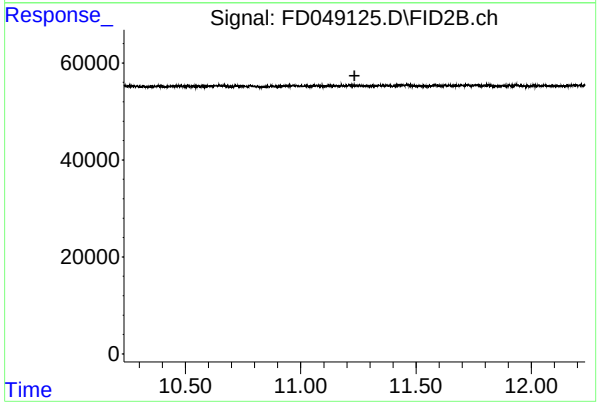
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049125.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 17:08
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Fri Feb 28 02:00:32 2025

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Feb 2025 09:46
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049128.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	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\FD022825AR\
Data File : FD049128.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 09:46
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: Mar 01 02:15:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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.

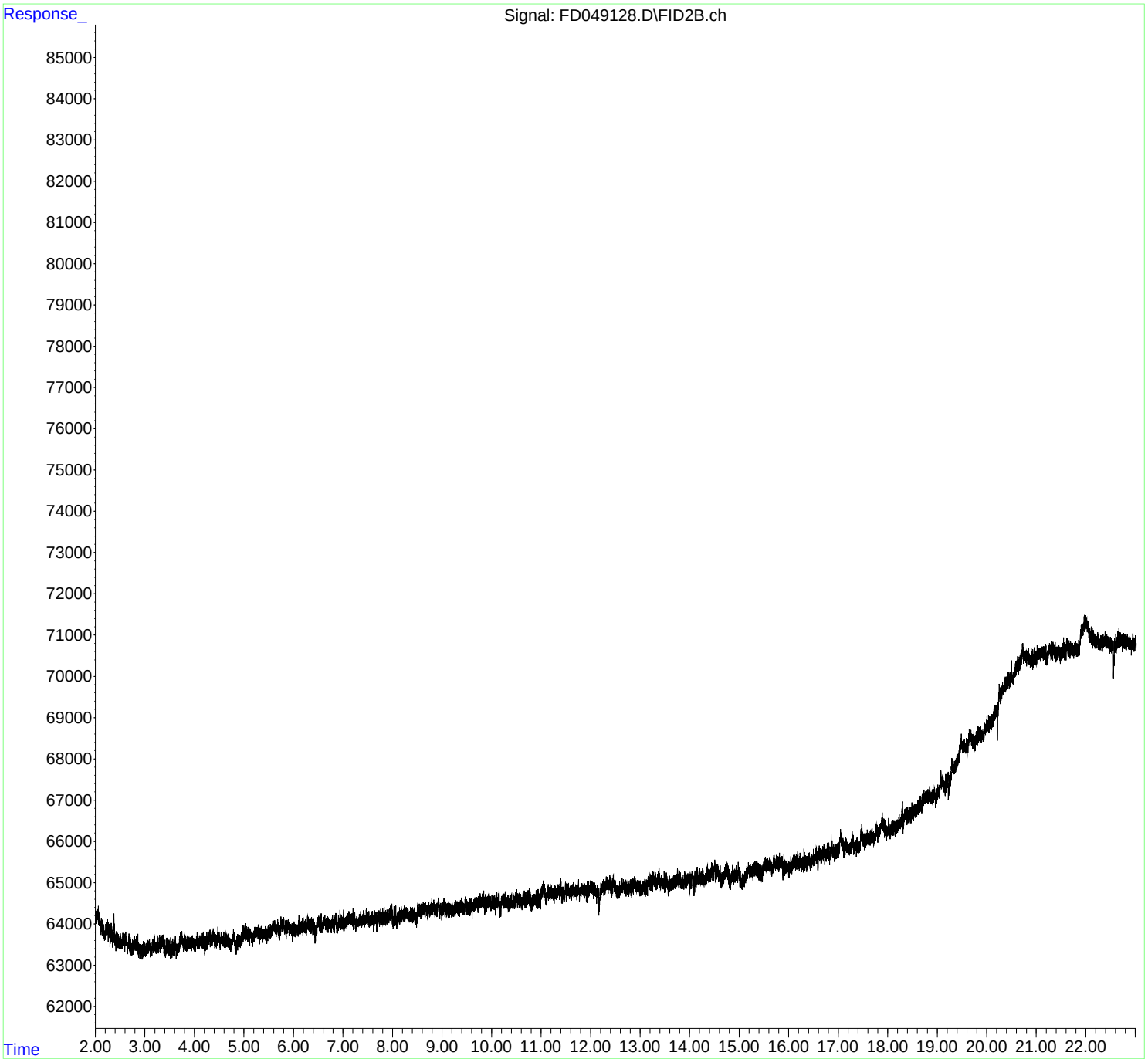
Quantitation Report (QT Reviewed)

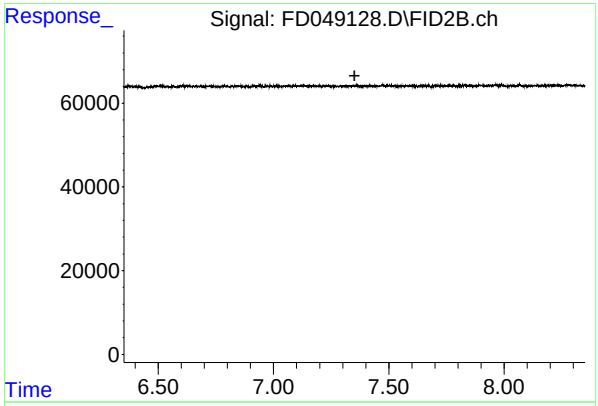
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049128.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 09:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 01 02:15:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

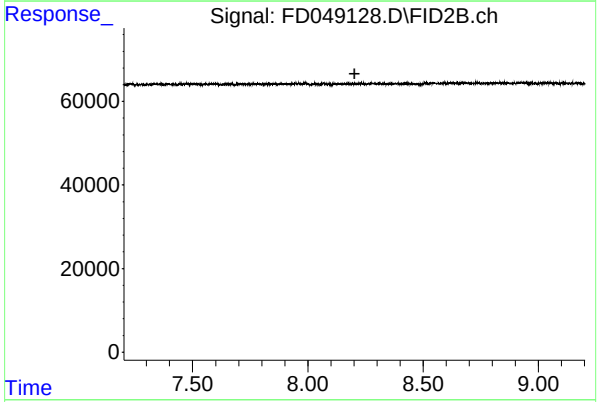




#4 2-Bromonaphthalene (SURR)

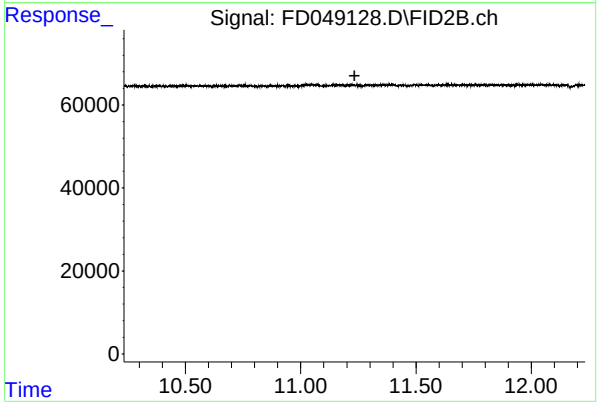
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049128.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 09:46
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Sat Mar 01 03:48:52 2025

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Feb 2025 15:53
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049138.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	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\FD022825AR\
Data File : FD049138.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 15:53
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: Mar 01 02:19:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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

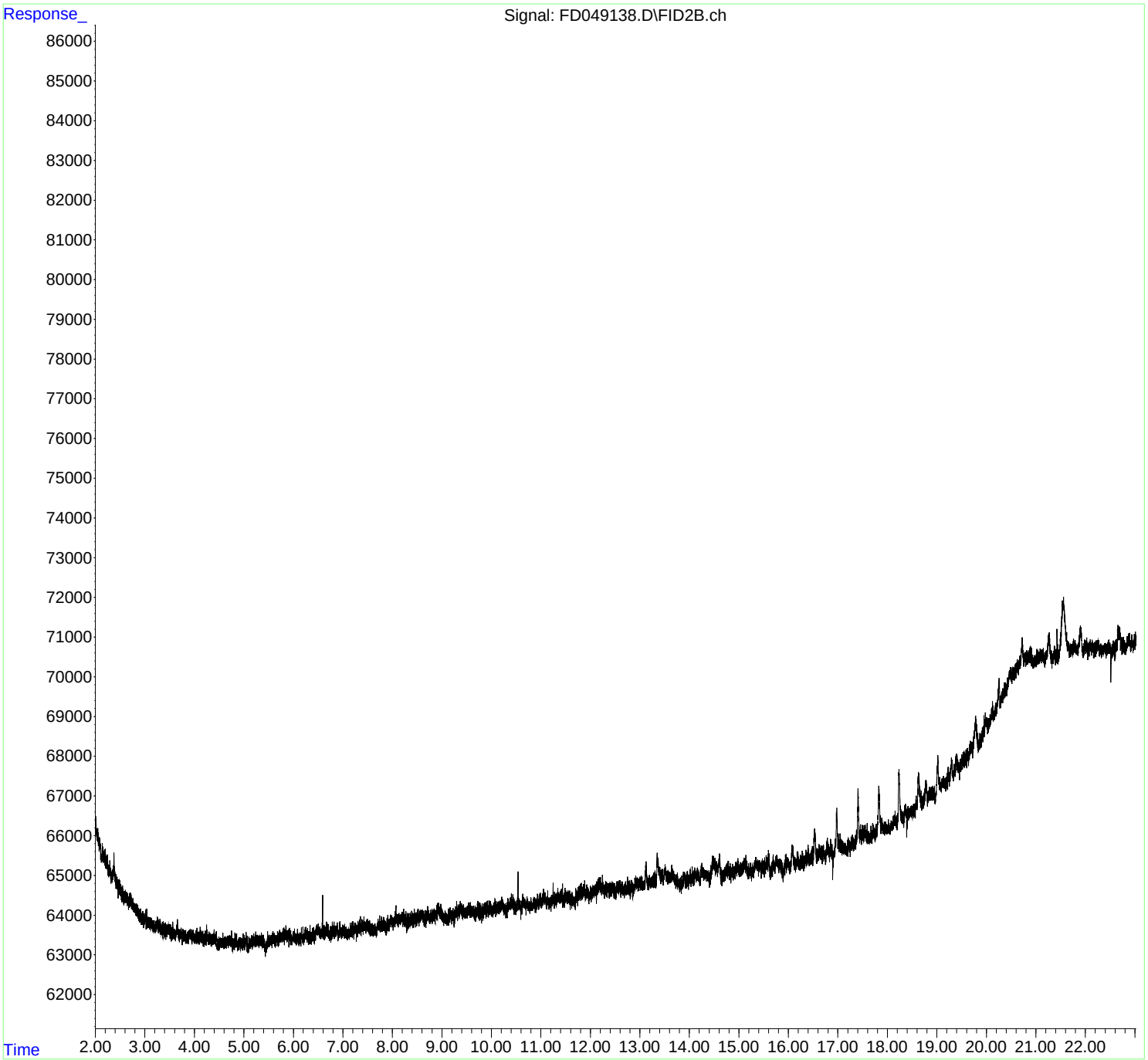
(f)=RT Delta > 1/2 Window (m)=manual int.

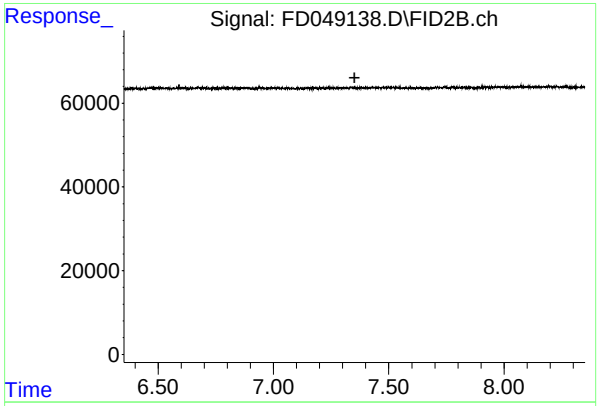
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049138.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 15:53
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 01 02:19:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

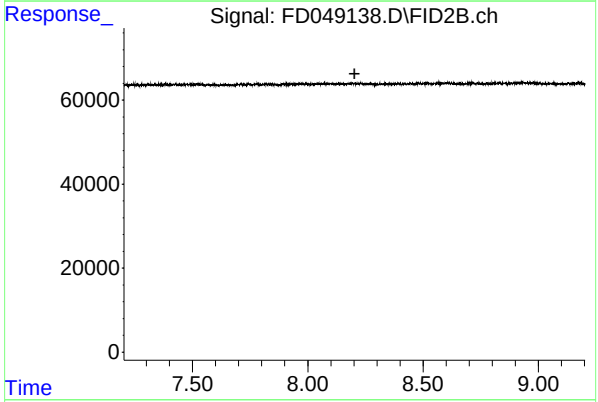




#4 2-Bromonaphthalene (SURR)

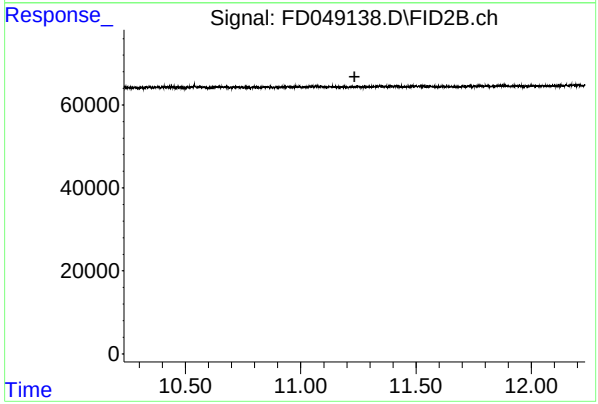
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049138.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 15:53
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Sat Mar 01 03:55:42 2025

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	I.BLK	Acq On:	28 Feb 2025 23:13
Client Sample ID:	I.BLK	Operator:	YP/AJ
Data file:	FD049148.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	4.076	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.396	0	0	300	ug/ml
Aromatic C16-C21	8.397	12.661	0	0	500	ug/ml
Aromatic C21-C36	12.662	18.073	0	0	800	ug/ml
Aromatic EPH	4.076	18.073	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\FD022825AR\
Data File : FD049148.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:13
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: Mar 01 02:23:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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

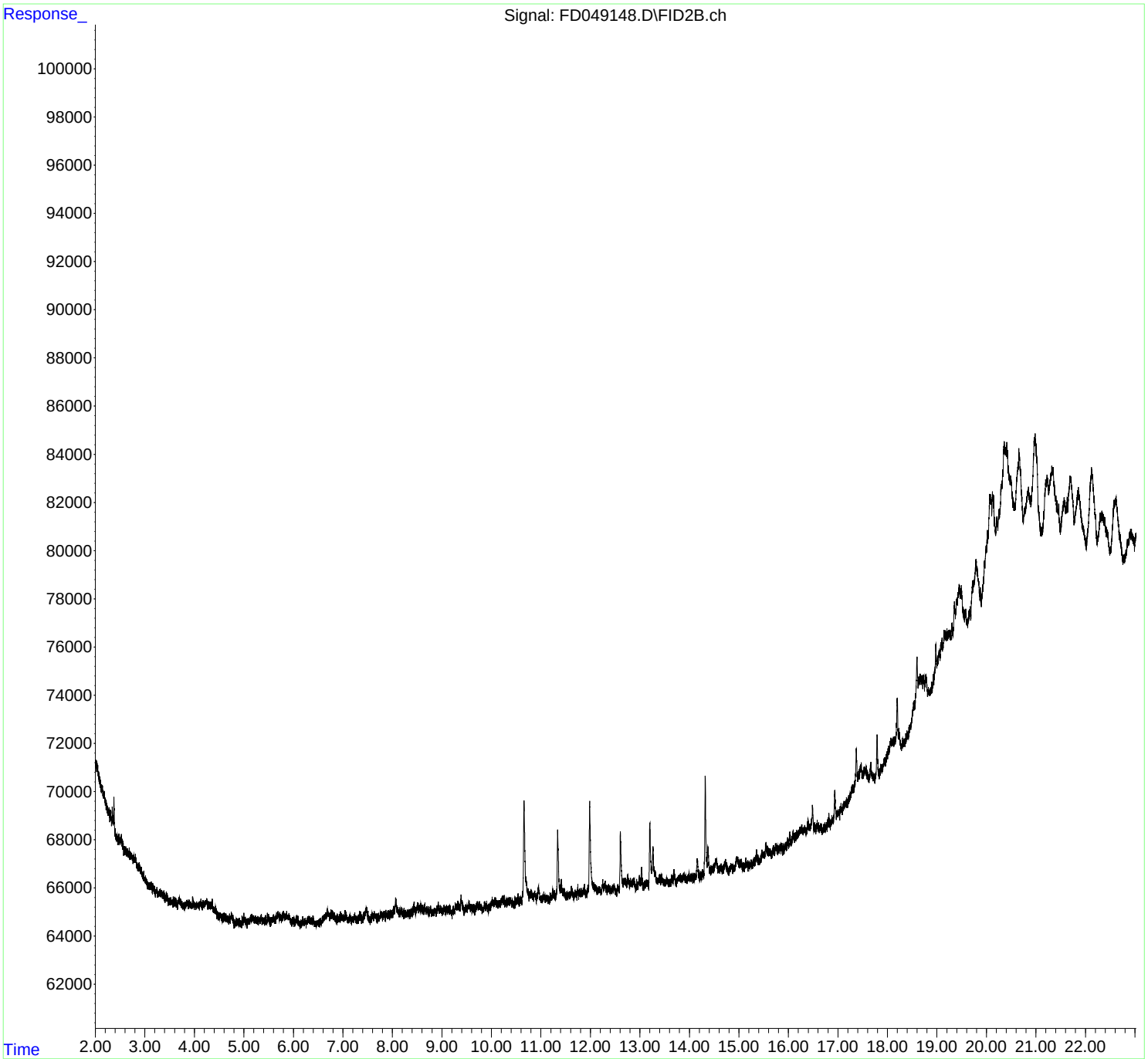
(f)=RT Delta > 1/2 Window (m)=manual int.

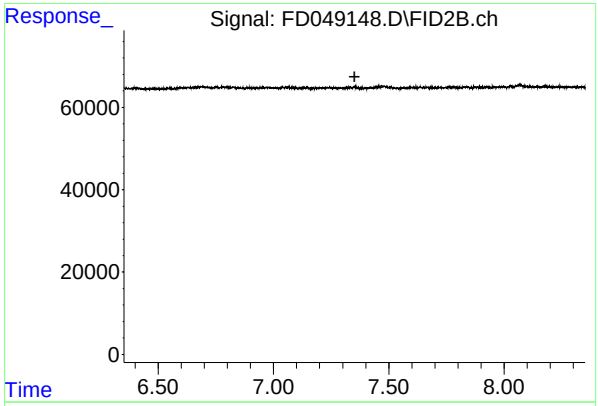
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049148.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:13
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
I.BLK

Integration File: autoint1.e
Quant Time: Mar 01 02:23:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

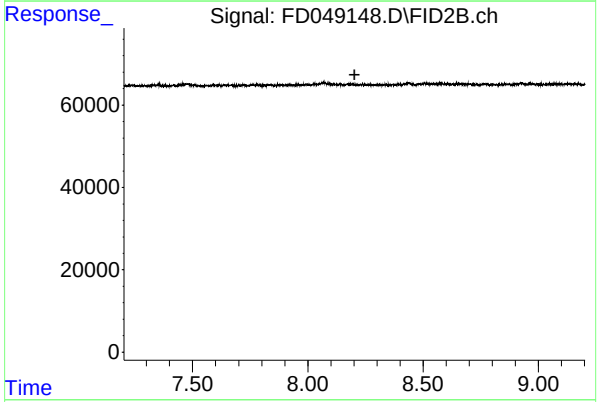




#4 2-Bromonaphthalene (SURR)

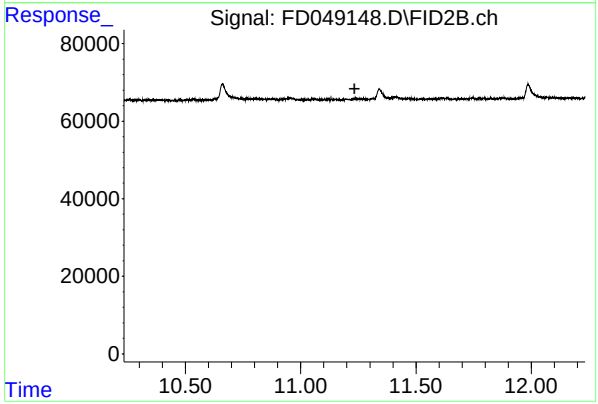
R.T.: 0.000 min
Exp R.T. : 7.351 min
Response: 0
Conc: N.D.

Instrument :
FID_D
ClientSampleId :
I.BLK



#6 2-Flurobiphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 8.202 min
Response: 0
Conc: N.D.



#11 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.233 min
Response: 0
Conc: N.D.

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049148.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 23:13
Sample : I.BLK
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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 021125.M Sat Mar 01 03:56:26 2025

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 905	Date Received:	
Client Sample ID:	PB166883BS	SDG No.:	Q1421
Lab Sample ID:	PB166883BS	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
02/26/25 11:45	02/27/25 11:02	PB166883

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	195		1	5.76	30.0	ug/l	FC068307.D
Aliphatic C12-C16	Aliphatic C12-C16	179		1	3.61	20.0	ug/l	FC068307.D
Aliphatic C16-C21	Aliphatic C16-C21	306		1	5.14	30.0	ug/l	FC068307.D
Aliphatic C21-C28	Aliphatic C21-C28	416		1	8.97	40.0	ug/l	FC068307.D
Aliphatic C28-C40	Aliphatic C28-C40	688		1	17.0	60.0	ug/l	FC068307.D
Aromatic C10-C12	Aromatic C10-C12	205		1	3.32	20.0	ug/l	FD049116.D
Aromatic C12-C16	Aromatic C12-C16	352		1	3.69	30.0	ug/l	FD049116.D
Aromatic C16-C21	Aromatic C16-C21	679		1	12.7	50.0	ug/l	FD049116.D
Aromatic C21-C36	Aromatic C21-C36	1070		1	25.2	80.0	ug/l	FD049116.D
Total AliphaticEPH	Total AliphaticEPH	1780			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2300			44.9	180	ug/l	
Total EPH	Total EPH	4090			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 905		Date Received:		
Client Sample ID:	PB166883BS		SDG No.:	Q1421	
Lab Sample ID:	PB166883BS		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
FC068307.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	195		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	179		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	306		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	416		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	688		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.5		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166883BS	Acq On:	27 Feb 2025 11:02
Client Sample ID:	PB166883BS	Operator:	YP/AJ
Data file:	FC068307.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.370	13819500	97.986	300	ug/ml
Aliphatic C12-C16	6.371	9.754	12247337	89.623	200	ug/ml
Aliphatic C16-C21	9.755	13.108	20168700	153.222	300	ug/ml
Aliphatic C21-C28	13.109	16.762	25554244	208.281	400	ug/ml
Aliphatic C28-C40	16.763	21.566	35379735	344.005	600	ug/ml
Aliphatic EPH	3.104	21.566	107169516	893.116		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.842	12.842	4552150	40.47		ug/ml
Aliphatic C9-C28	3.104	16.762	71789781	549.112	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068307.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 11:02
Operator : YP/AJ
Sample : PB166883BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166883BS

Integration File: autoint1.e
Quant Time: Mar 05 04:43:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.842	4552150	40.473 ug/ml
Spiked Amount	50.000		Recovery =	80.95%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3754997	26.692 ug/ml
2) T	n-Decane (C10)	4.262	4697721	33.159 ug/ml
4) T	n-Dodecane (C12)	6.271	5366782	38.128 ug/ml
6) T	n-Tetradecane (C14)	8.060	5912885	43.368 ug/ml
7) T	n-Hexadecane (C16)	9.657	6334452	46.249 ug/ml
8) T	n-Octadecane (C18)	11.095	6639069	48.546 ug/ml
10) T	n-Eicosane (C20)	12.402	6912188	53.054 ug/ml
11) T	n-Heneicosane (C21)	13.013	6617443	51.760 ug/ml
13) T	n-Docosane (C22)	13.599	6575612	52.176 ug/ml
14) T	n-Tetracosane (C24)	14.698	6459568	51.935 ug/ml
15) T	n-Hexacosane (C26)	15.718	6321600	51.990 ug/ml
16) T	n-Octacosane (C28)	16.665	6147602	51.762 ug/ml
17) T	n-Tricontane (C30)	17.553	6105219	50.722 ug/ml
18) T	n-Dotriacontane (C32)	18.385	6035744	52.002 ug/ml
19) T	n-Tetratriacontane (C34)	19.167	6066026	56.136 ug/ml
20) T	n-Hexatriacontane (C36)	19.907	5815276	60.469 ug/ml
21) T	n-Octatriacontane (C38)	20.617	5646485	62.810 ug/ml
22) T	n-Tetracontane (C40)	21.473	5462282	63.133 ug/ml

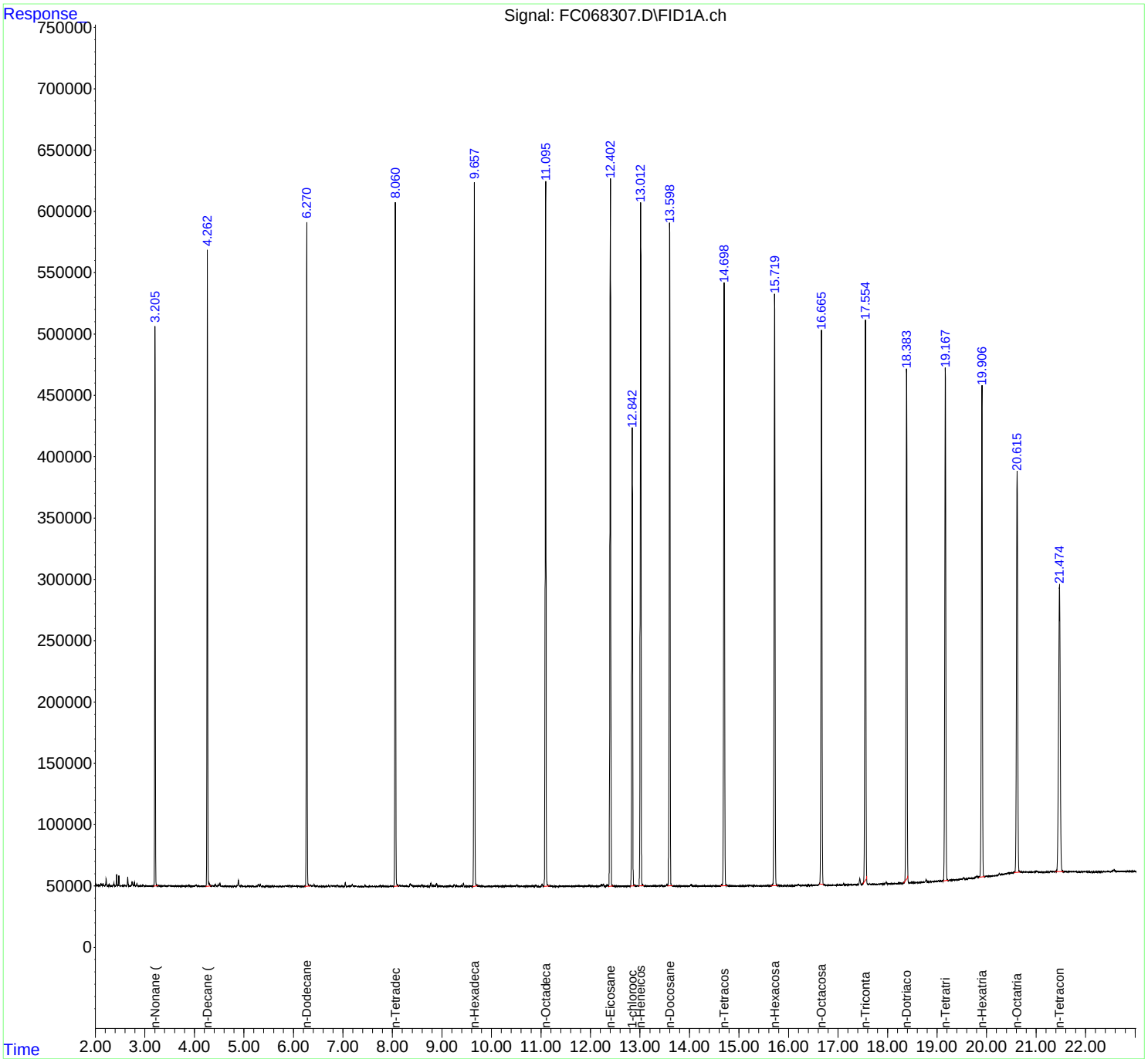
(f)=RT Delta > 1/2 Window (m)=manual int.

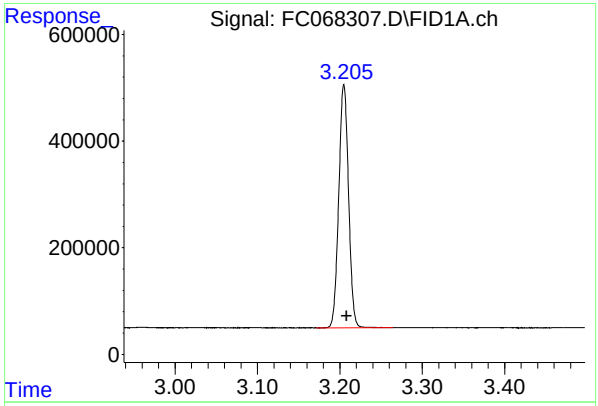
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068307.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 11:02
Operator : YP/AJ
Sample : PB166883BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166883BS

Integration File: autoint1.e
Quant Time: Mar 05 04:43:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

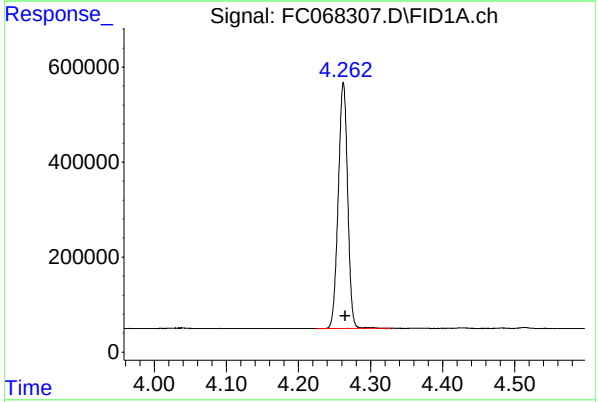




#1 n-Nonane (C9)

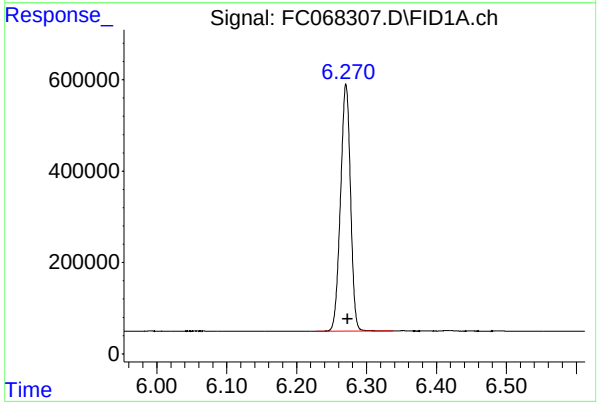
R.T.: 3.205 min
Delta R.T.: -0.003 min
Response: 3754997
Conc: 26.69 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166883BS



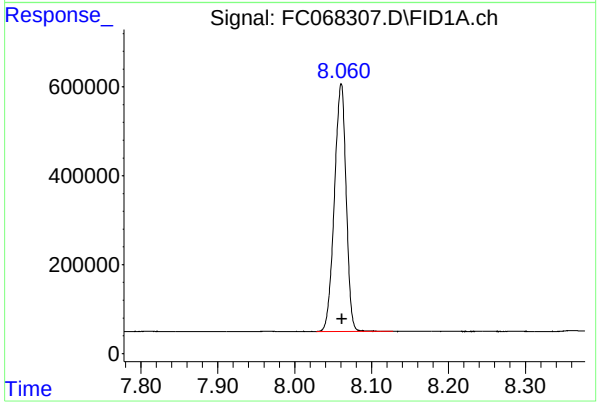
#2 n-Decane (C10)

R.T.: 4.262 min
Delta R.T.: -0.003 min
Response: 4697721
Conc: 33.16 ug/ml



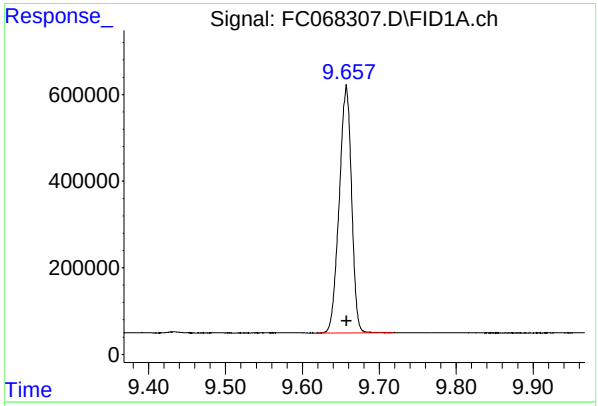
#4 n-Dodecane (C12)

R.T.: 6.271 min
Delta R.T.: -0.002 min
Response: 5366782
Conc: 38.13 ug/ml



#6 n-Tetradecane (C14)

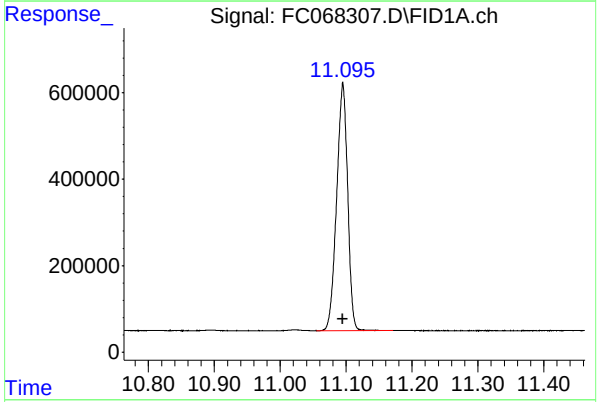
R.T.: 8.060 min
Delta R.T.: -0.002 min
Response: 5912885
Conc: 43.37 ug/ml



#7 n-Hexadecane (C16)

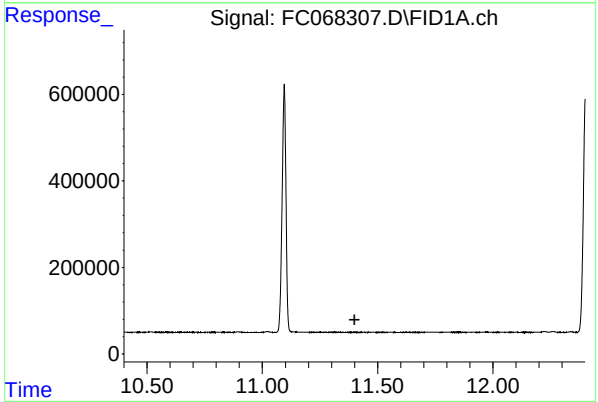
R.T.: 9.657 min
Delta R.T.: 0.000 min
Response: 6334452
Conc: 46.25 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166883BS



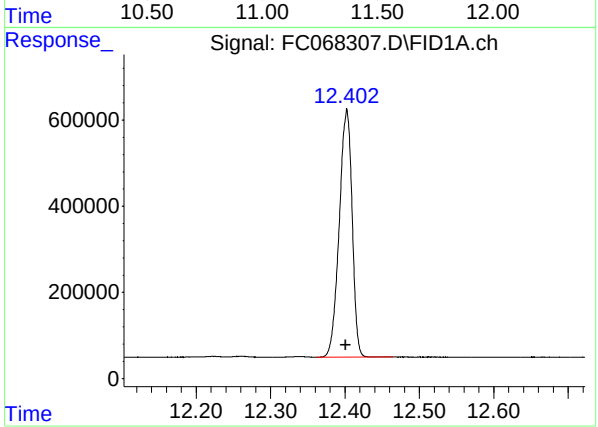
#8 n-Octadecane (C18)

R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 6639069
Conc: 48.55 ug/ml



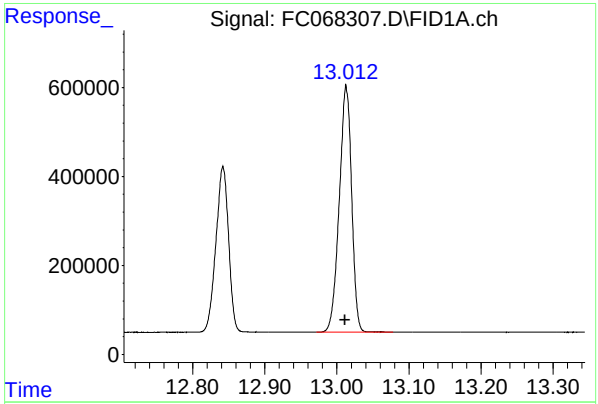
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

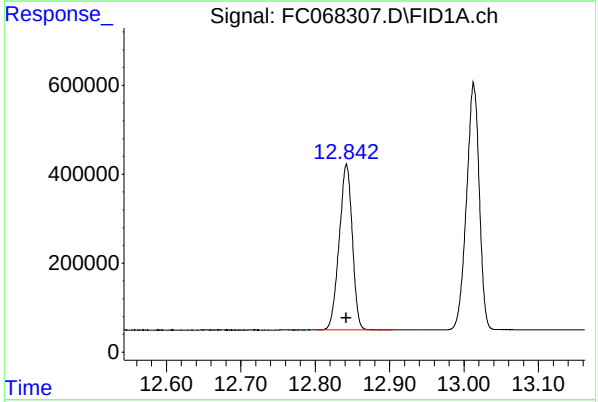
R.T.: 12.402 min
Delta R.T.: 0.001 min
Response: 6912188
Conc: 53.05 ug/ml



#11 n-Heneicosane (C21)

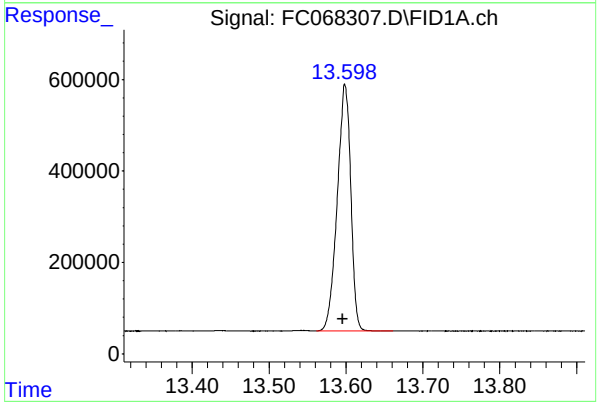
R.T.: 13.013 min
Delta R.T.: 0.002 min
Response: 6617443
Conc: 51.76 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166883BS



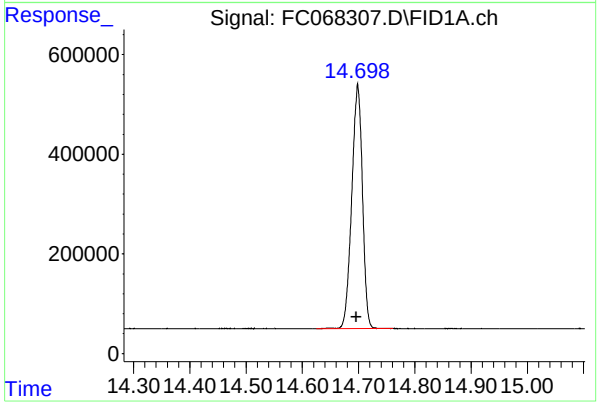
#12 1-chlorooctadecane (SURR)

R.T.: 12.842 min
Delta R.T.: 0.000 min
Response: 4552150
Conc: 40.47 ug/ml



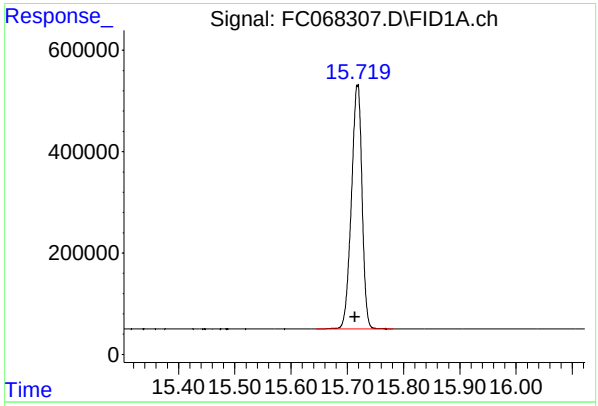
#13 n-Docosane (C22)

R.T.: 13.599 min
Delta R.T.: 0.003 min
Response: 6575612
Conc: 52.18 ug/ml



#14 n-Tetracosane (C24)

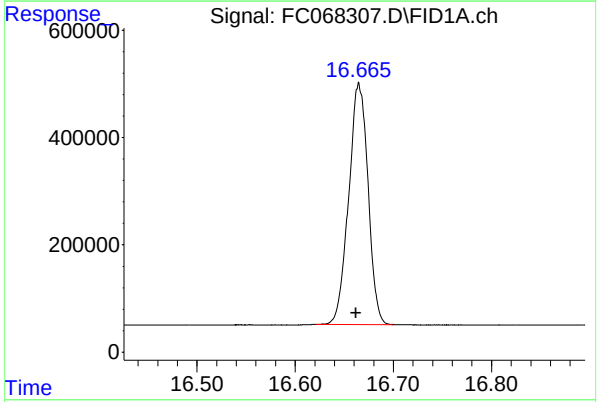
R.T.: 14.698 min
Delta R.T.: 0.002 min
Response: 6459568
Conc: 51.94 ug/ml



#15 n-Hexacosane (C26)

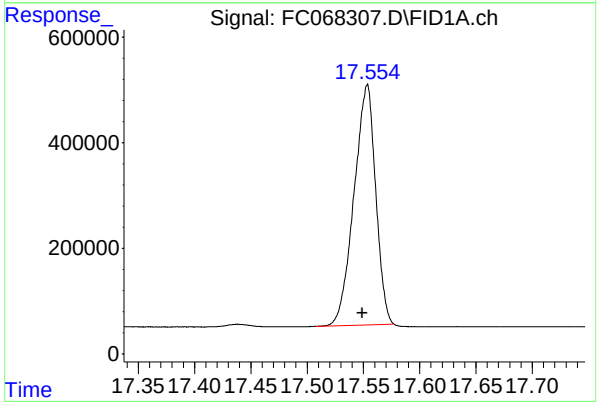
R.T.: 15.718 min
Delta R.T.: 0.004 min
Response: 6321600
Conc: 51.99 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166883BS



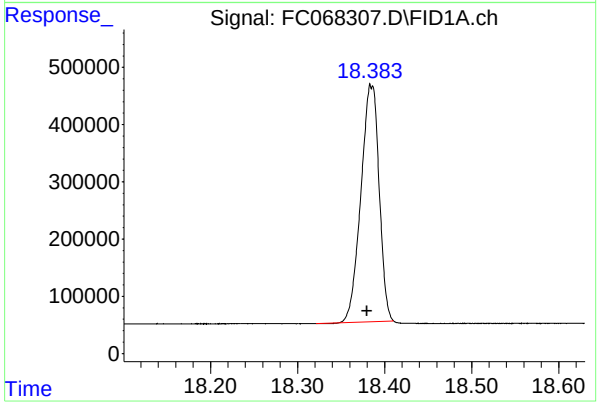
#16 n-Octacosane (C28)

R.T.: 16.665 min
Delta R.T.: 0.003 min
Response: 6147602
Conc: 51.76 ug/ml



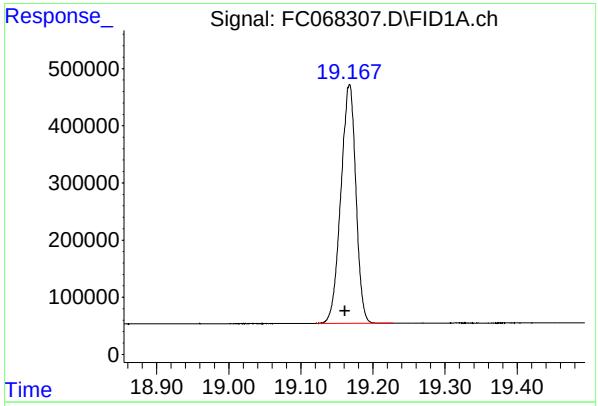
#17 n-Tricontane (C30)

R.T.: 17.553 min
Delta R.T.: 0.004 min
Response: 6105219
Conc: 50.72 ug/ml



#18 n-Dotriacontane (C32)

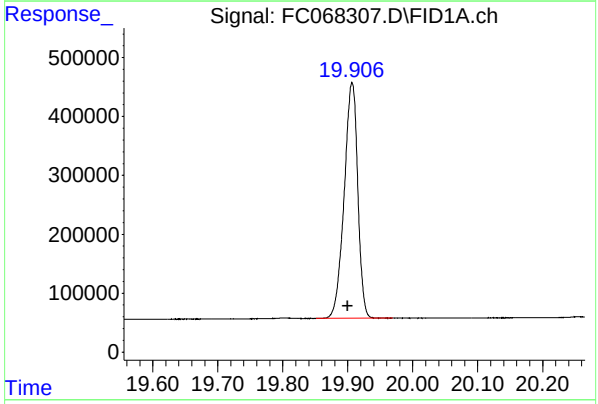
R.T.: 18.385 min
Delta R.T.: 0.005 min
Response: 6035744
Conc: 52.00 ug/ml



#19 n-Tetratriacontane (C34)

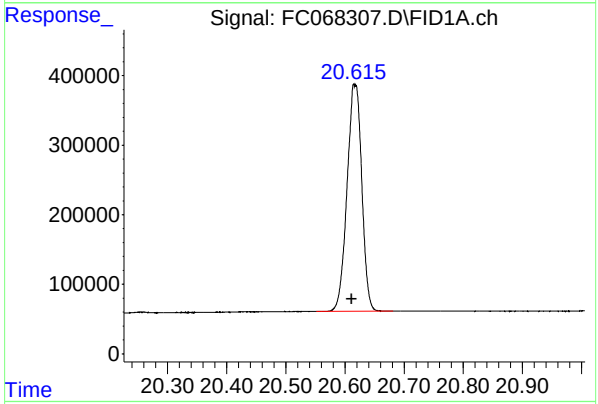
R.T.: 19.167 min
Delta R.T.: 0.006 min
Response: 6066026
Conc: 56.14 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166883BS



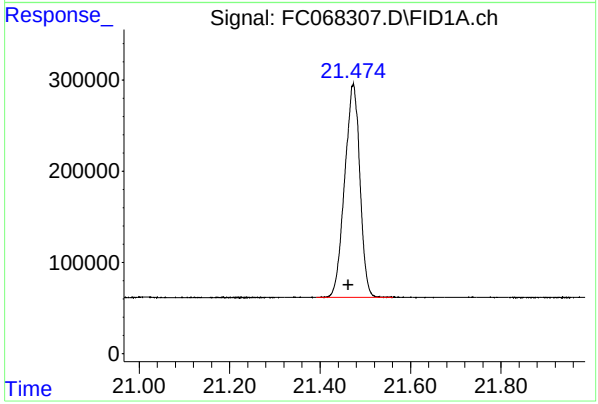
#20 n-Hexatriacontane (C36)

R.T.: 19.907 min
Delta R.T.: 0.006 min
Response: 5815276
Conc: 60.47 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.617 min
Delta R.T.: 0.006 min
Response: 5646485
Conc: 62.81 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.473 min
Delta R.T.: 0.011 min
Response: 5462282
Conc: 63.13 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068307.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 11:02
Sample : PB166883BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.205	3.171	3.265	BB	455418	3754997	54.32%	3.361%
2	4.262	4.224	4.331	BB	514345	4697721	67.96%	4.205%
3	6.271	6.228	6.338	BB	540975	5366782	77.64%	4.804%
4	8.060	8.028	8.128	BB	564427	5912885	85.54%	5.293%
5	9.657	9.618	9.718	BB	567479	6334452	91.64%	5.670%
6	11.095	11.055	11.171	BB	566758	6639069	96.05%	5.943%
7	12.402	12.361	12.465	PB	566255	6912188	100.00%	6.187%
8	12.842	12.801	12.905	BB	371601	4552150	65.86%	4.075%
9	13.013	12.971	13.078	BB	548102	6617443	95.74%	5.923%
10	13.599	13.561	13.661	BB	539759	6575612	95.13%	5.886%
11	14.698	14.625	14.761	BB	484959	6459568	93.45%	5.782%
12	15.718	15.645	15.781	BB	483444	6321600	91.46%	5.658%
13	16.665	16.598	16.731	BB	448027	6197464	89.66%	5.547%
14	17.553	17.481	17.611	BB	465416	6234731	90.20%	5.581%
15	18.385	18.321	18.454	BB	415915	6154935	89.04%	5.509%
16	19.167	19.121	19.228	BB	419314	6066026	87.76%	5.430%
17	19.907	19.851	19.970	BBA	402099	5815276	84.13%	5.205%
18	20.617	20.551	20.681	BB	324985	5646485	81.69%	5.054%
19	21.473	21.391	21.561	BB	234349	5462282	79.02%	4.889%

Sum of corrected areas: 111721664

Aliphatic EPH 021125.M Fri Feb 28 01:08:30 2025

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 905		Date Received:		
Client Sample ID:	PB166883BS		SDG No.:	Q1421	
Lab Sample ID:	PB166883BS		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
FD049116.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	205		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	352		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	679		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	1070		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.7		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	65.5		40 - 140	131%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	55.5		40 - 140	111%	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:	PB166883BS	Acq On:	27 Feb 2025 11:02
Client Sample ID:	PB166883BS	Operator:	YP/AJ
Data file:	FD049116.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	16331007	102.697	200	ug/ml
Aromatic C12-C16	5.795	8.397	28366957	176.262	300	ug/ml
Aromatic C16-C21	8.398	12.661	52101012	339.732	500	ug/ml
Aromatic C21-C36	12.662	18.071	76451006	534.194	800	ug/ml
Aromatic EPH	4.076	18.071	173249982	1150		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8834021	61.73		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5756944	65.49		ug/ml
ortho-Terphenyl (SURR)	11.238	11.238	8978749	55.5		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049116.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 11:02
Operator : YP/AJ
Sample : PB166883BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166883BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Integration File: autoint1.e
Quant Time: Feb 28 01:25:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	8834021	61.729 ug/ml
Spiked Amount	50.000		Recovery =	123.46%
6) S	2-Flurobiphenyl (SURR)	8.203	5756944	65.485 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	130.97%
11) S	ortho-Terphenyl (SURR)	11.238	8978749	55.502 ug/ml
Spiked Amount	50.000		Recovery =	111.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.177	7641372	47.982 ug/ml
2) T	Naphthalene (C11.7)	5.693	8689635	54.725 ug/ml
3) T	2-Methylnaphthalene (...	6.740	8553154	54.936 ug/ml
5) T	Acenaphthylene (C15.06)	8.006	9684411	59.558 ug/ml
7) T	Acenaphthene (C15.5)	8.301	10129392	61.574 ug/ml
8) T	Flouorene (C16.55)	9.080	10213780	64.788 ug/ml
9) T	Phenanthrene (C19.36)	10.468	10318453	68.470 ug/ml
10) T	Anthracene (C19.43)	10.544	10577201	70.035 ug/ml
12) T	Fluoranthene (C21.85)	12.274	10612432	68.771 ug/ml
13) T	Pyrene (C20.8)	12.567	10379146	67.372 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	9856625	75.018 ug/ml
15) T	Chrysene (C27.41)	14.480	9635857	59.596 ug/ml
16) T	benzo[b]fluoranthene ...	15.989	9789875	71.150 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.024	10790161	68.317 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.364	9428471	69.461 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	9225906	84.427 ug/ml
20) T	Dibenz[a,h]anthracene...	17.768	9345045	60.236 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.987	9321039	64.305 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049116.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 11:02
Operator : YP/AJ
Sample : PB166883BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

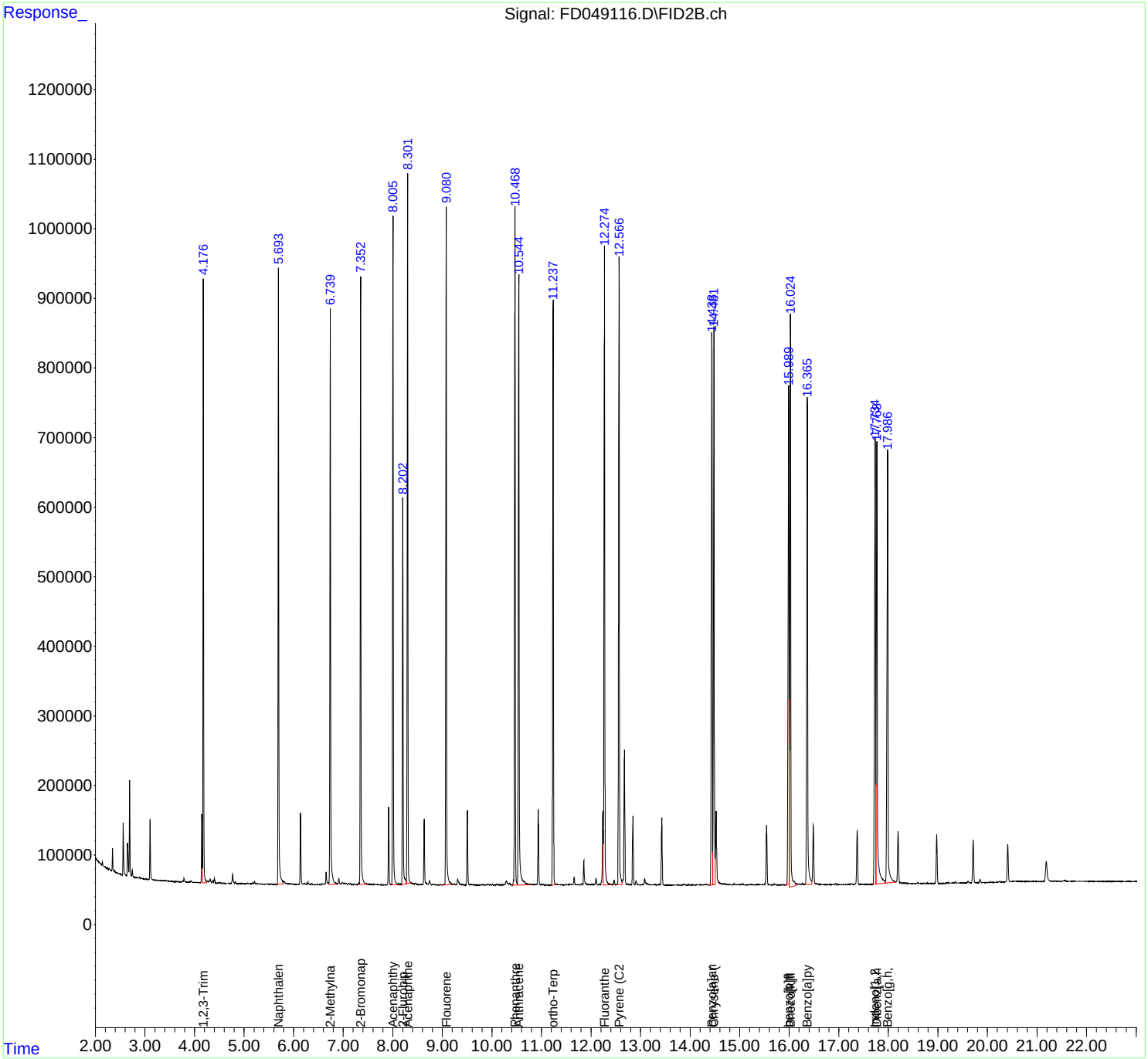
Instrument :
FID_D
ClientSampleId :
PB166883BS

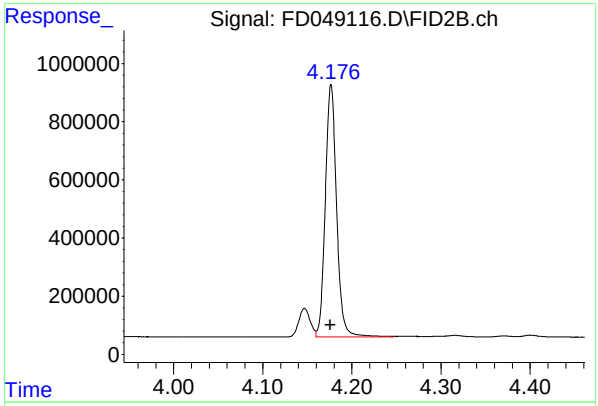
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Integration File: autoint1.e
Quant Time: Feb 28 01:25:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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





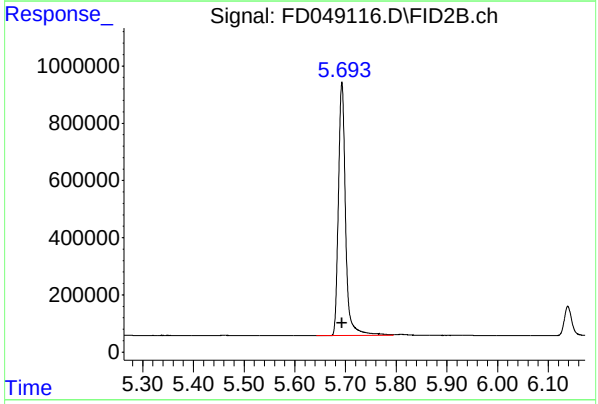
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.177 min
Delta R.T.: 0.000 min
Response: 7641372
Conc: 47.98 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883BS

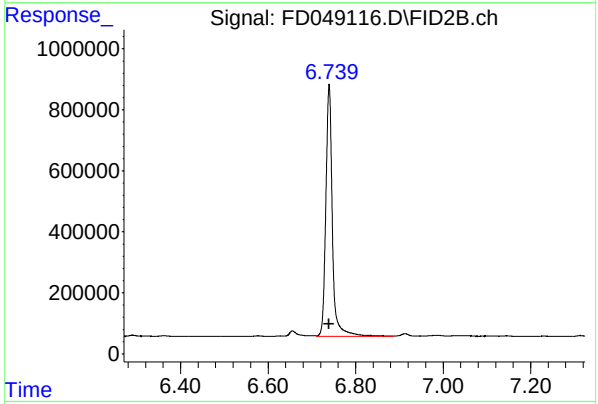
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



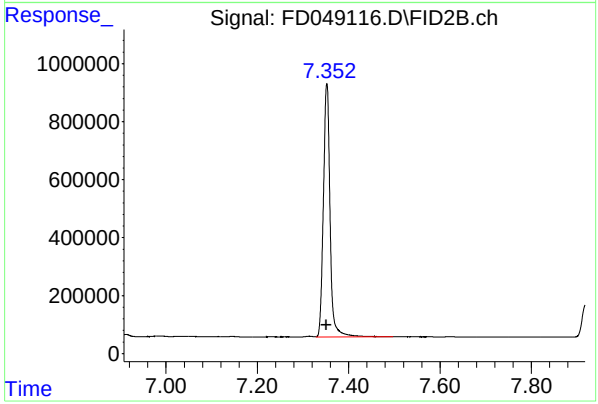
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 8689635
Conc: 54.72 ug/ml



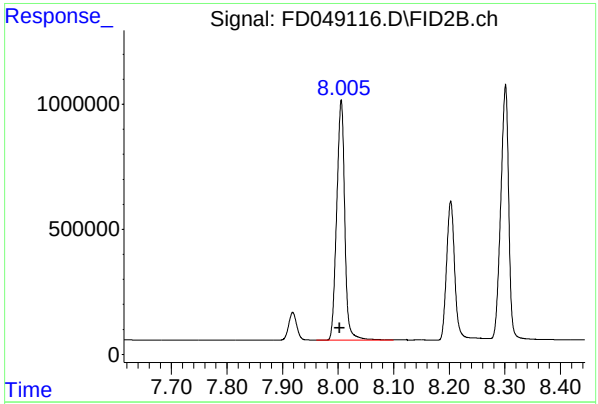
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 8553154
Conc: 54.94 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8834021
Conc: 61.73 ug/ml



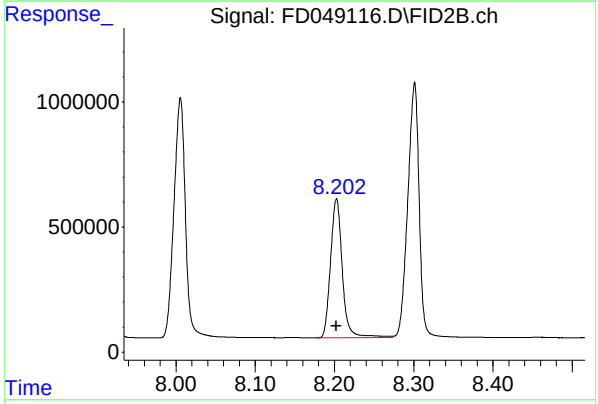
#5 Acenaphthylene (C15.06)

R.T.: 8.006 min
Delta R.T.: 0.003 min
Response: 9684411
Conc: 59.56 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883BS

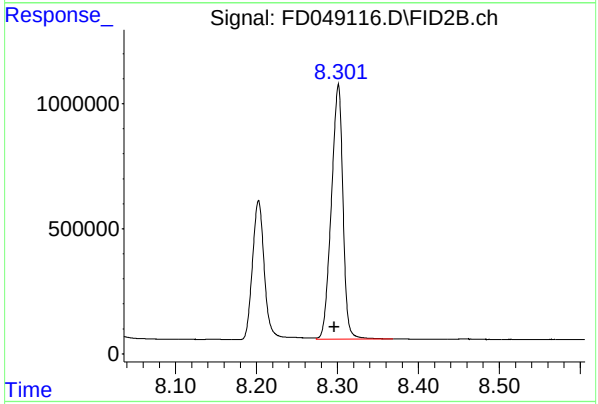
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



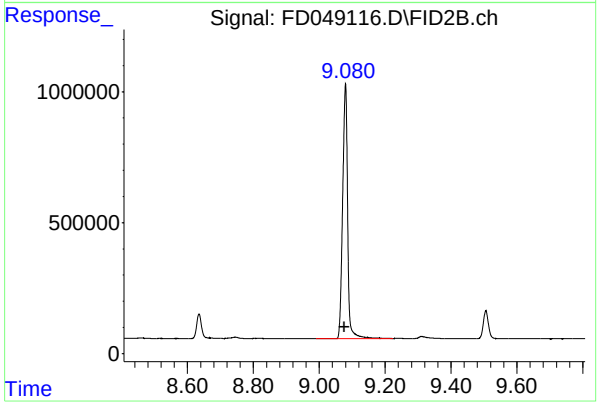
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 5756944
Conc: 65.49 ug/ml



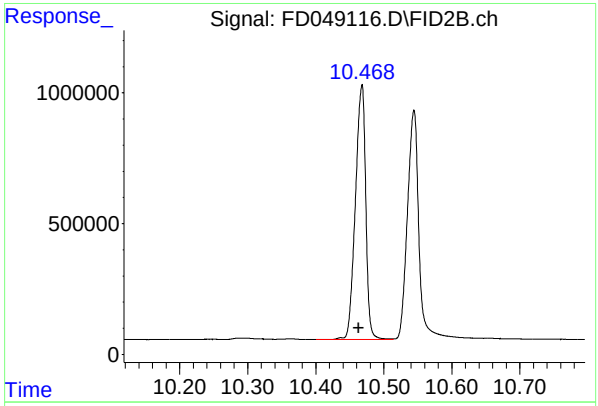
#7 Acenaphthene (C15.5)

R.T.: 8.301 min
Delta R.T.: 0.005 min
Response: 10129392
Conc: 61.57 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.080 min
Delta R.T.: 0.004 min
Response: 10213780
Conc: 64.79 ug/ml



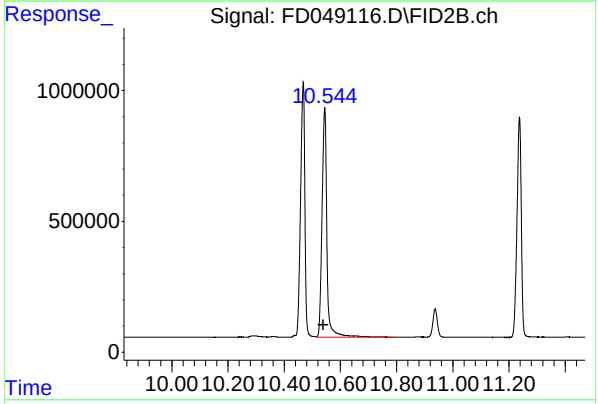
#9 Phenanthrene (C19.36)

R.T.: 10.468 min
Delta R.T.: 0.005 min
Response: 10318453
Conc: 68.47 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883BS

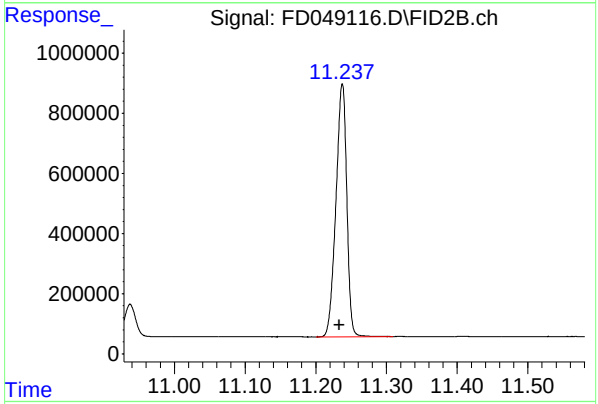
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



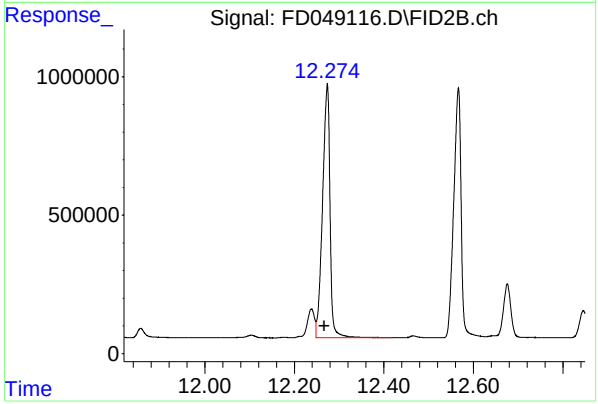
#10 Anthracene (C19.43)

R.T.: 10.544 min
Delta R.T.: 0.005 min
Response: 10577201
Conc: 70.03 ug/ml



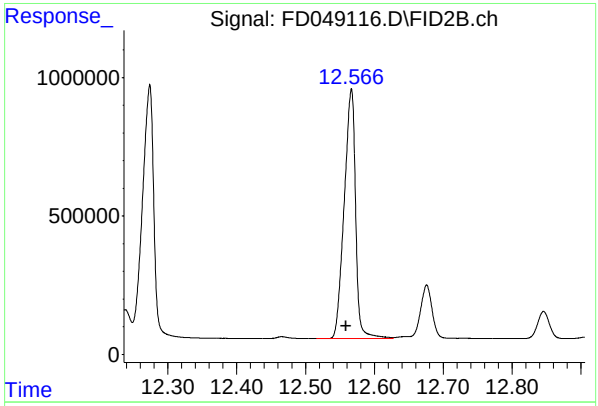
#11 ortho-Terphenyl (SURR)

R.T.: 11.238 min
Delta R.T.: 0.004 min
Response: 8978749
Conc: 55.50 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.274 min
Delta R.T.: 0.007 min
Response: 10612432
Conc: 68.77 ug/ml



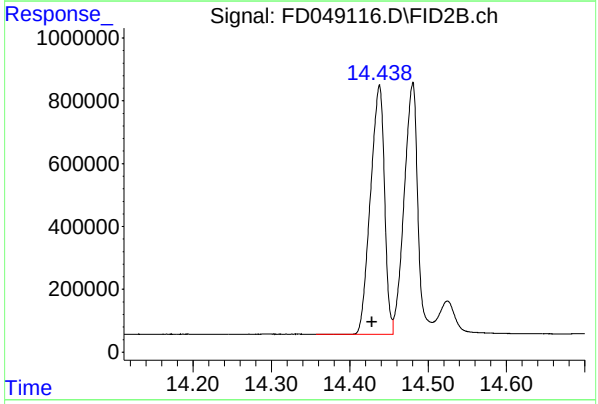
#13 Pyrene (C20.8)

R.T.: 12.567 min
Delta R.T.: 0.008 min
Response: 10379146
Conc: 67.37 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883BS

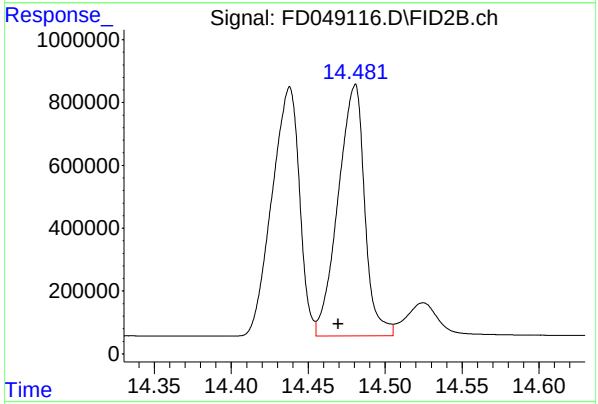
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



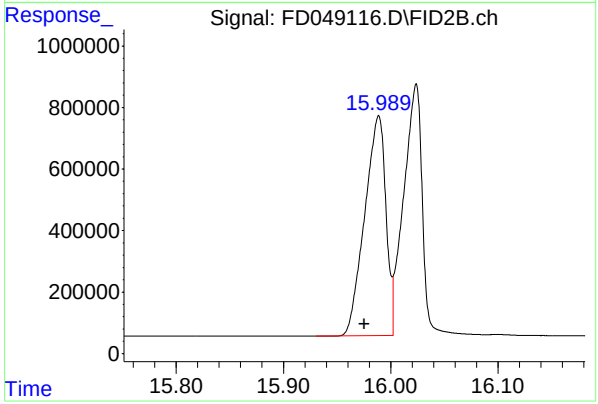
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.438 min
Delta R.T.: 0.009 min
Response: 9856625
Conc: 75.02 ug/ml



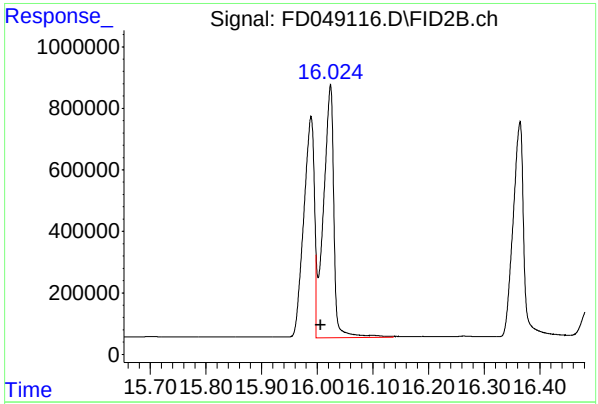
#15 Chrysene (C27.41)

R.T.: 14.480 min
Delta R.T.: 0.011 min
Response: 9635857
Conc: 59.60 ug/ml



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

R.T.: 15.989 min
Delta R.T.: 0.013 min
Response: 9789875
Conc: 71.15 ug/ml



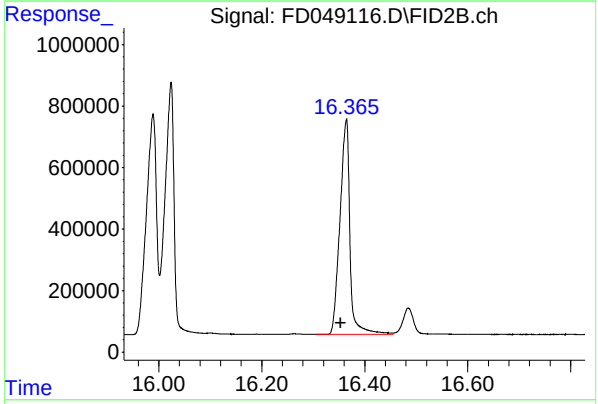
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.024 min
Delta R.T.: 0.017 min
Response: 10790161
Conc: 68.32 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166883BS

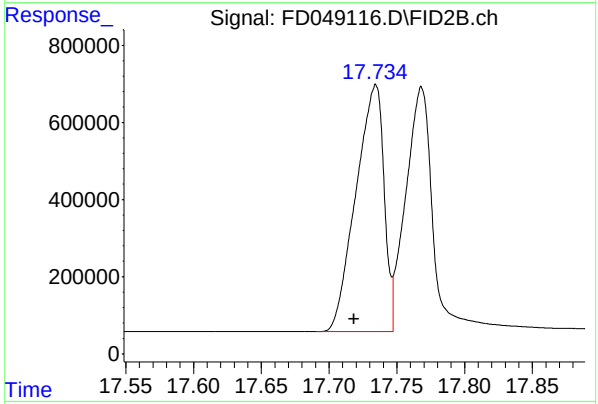
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025



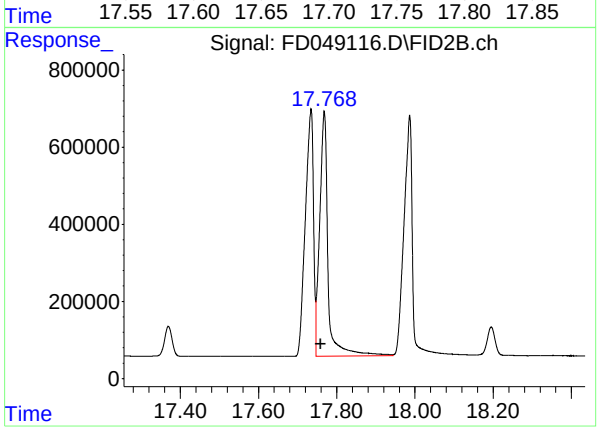
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.364 min
Delta R.T.: 0.011 min
Response: 9428471
Conc: 69.46 ug/ml



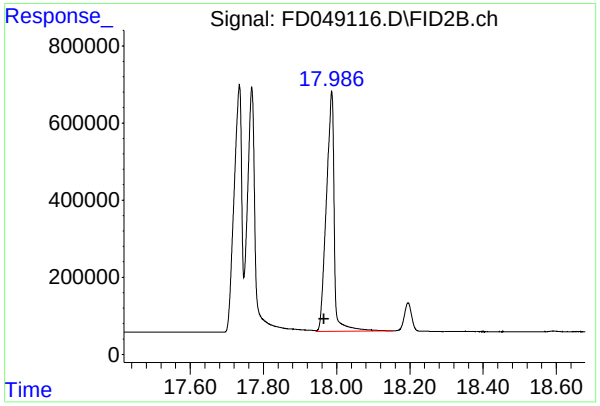
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.734 min
Delta R.T.: 0.016 min
Response: 9225906
Conc: 84.43 ug/ml



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

R.T.: 17.768 min
Delta R.T.: 0.009 min
Response: 9345045
Conc: 60.24 ug/ml



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

R.T.: 17.987 min
Delta R.T.: 0.021 mi
Response: 9321039
Conc: 64.30 ug/m

Instrument :
FID_D
ClientSampleId :
PB166883BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Instrument :
FID_D
ClientSampleId :
PB166883BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :Ankita Jodhani 02/28/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD02272
Data File : FD049116.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 11:02
Sample : PB166883BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.177	4.160	4.246	VV	868070	7641372	72.00%	3.882%
2	5.693	5.642	5.794	BV	885636	8689635	81.88%	4.415%
3	6.740	6.710	6.885	VV	826354	8553154	80.60%	4.346%
4	7.352	7.329	7.497	VB	874447	8834021	83.24%	4.488%
5	8.006	7.960	8.099	BV	960593	9684411	91.26%	4.920%
6	8.203	8.177	8.274	PV	554950	5756944	54.25%	2.925%
7	8.301	8.274	8.369	VV	1023204	10129392	95.45%	5.147%
8	9.080	8.990	9.224	BV	976889	10213780	96.24%	5.189%
9	10.468	10.400	10.513	BV	983569	10318453	97.23%	5.243%
10	10.544	10.513	10.787	VB	875448	10577201	99.67%	5.374%
11	11.238	11.200	11.309	BV	841511	8978749	84.61%	4.562%
12	12.274	12.249	12.420	VB	916912	10612432	100.00%	5.392%
13	12.567	12.515	12.627	BV	903905	10379146	97.80%	5.273%
14	14.438	14.357	14.455	BV	795211	9856625	92.88%	5.008%
15	14.480	14.455	14.505	VV	798778	9635857	90.80%	4.896%
16	15.989	15.930	16.002	BV	714701	9789875	92.25%	4.974%
17	16.024	16.002	16.087	VV	817078	9848188	92.80%	5.004%
18	16.364	16.305	16.455	BV	696116	9428471	88.84%	4.790%
19	17.734	17.690	17.747	BV	638416	9225906	86.93%	4.687%
20	17.768	17.747	17.944	VV	633042	9345045	88.06%	4.748%
21	17.987	17.944	18.154	VV	621907	9321039	87.83%	4.736%

Sum of corrected areas: 196819694

Aromatic EPH 021125.M Fri Feb 28 01:58:15 2025

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 905			Date Received:	
Client Sample ID:	PB166923BS			SDG No.:	Q1421
Lab Sample ID:	PB166923BS			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
02/27/25 13:10	02/28/25 11:37	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.53		1	0.38	1.00	mg/kg	FC068323.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068323.D
Aliphatic C16-C21	Aliphatic C16-C21	9.57		1	0.30	1.00	mg/kg	FC068323.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068323.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	1.80	2.00	mg/kg	FC068323.D
Aromatic C10-C12	Aromatic C10-C12	6.49		1	0.30	0.67	mg/kg	FD049131.D
Aromatic C12-C16	Aromatic C12-C16	11.1		1	0.34	1.00	mg/kg	FD049131.D
Aromatic C16-C21	Aromatic C16-C21	21.5		1	0.96	1.67	mg/kg	FD049131.D
Aromatic C21-C36	Aromatic C21-C36	34.3		1	2.00	2.66	mg/kg	FD049131.D
Total AliphaticEPH	Total AliphaticEPH	56.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	73.4			3.60	6.00	mg/kg	
Total EPH	Total EPH	129			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 905		Date Received:		
Client Sample ID:	PB166923BS		SDG No.:	Q1421	
Lab Sample ID:	PB166923BS		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
FC068323.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.53		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.57		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FC068323.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.104	6.369	13831446	98.071	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11804868	86.385	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18912877	143.681	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23798182	193.968	400	ug/ml
Aliphatic C28-C40	16.762	21.565	32890476	319.802	600	ug/ml
Aliphatic EPH	3.104	21.565	101237849	841.906		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4376930	38.91		ug/ml
Aliphatic C9-C28	3.104	16.761	68347373	522.105	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	4376930	38.915 ug/ml
Spiked Amount	50.000		Recovery =	77.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3770437	26.802 ug/ml
2) T	n-Decane (C10)	4.262	4690075	33.105 ug/ml
4) T	n-Dodecane (C12)	6.270	5370934	38.157 ug/ml
6) T	n-Tetradecane (C14)	8.059	5778269	42.380 ug/ml
7) T	n-Hexadecane (C16)	9.655	6026599	44.001 ug/ml
8) T	n-Octadecane (C18)	11.094	6267228	45.827 ug/ml
10) T	n-Eicosane (C20)	12.400	6468032	49.645 ug/ml
11) T	n-Heneicosane (C21)	13.011	6177617	48.320 ug/ml
13) T	n-Docosane (C22)	13.595	6141972	48.735 ug/ml
14) T	n-Tetracosane (C24)	14.696	6008487	48.309 ug/ml
15) T	n-Hexacosane (C26)	15.715	5879209	48.352 ug/ml
16) T	n-Octacosane (C28)	16.664	5728664	48.234 ug/ml
17) T	n-Tricontane (C30)	17.550	5730289	47.607 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5695730	49.073 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5652338	52.308 ug/ml
20) T	n-Hexatriacontane (C36)	19.903	5406820	56.222 ug/ml
21) T	n-Octatriacontane (C38)	20.615	5240074	58.289 ug/ml
22) T	n-Tetracontane (C40)	21.470	5034272	58.186 ug/ml

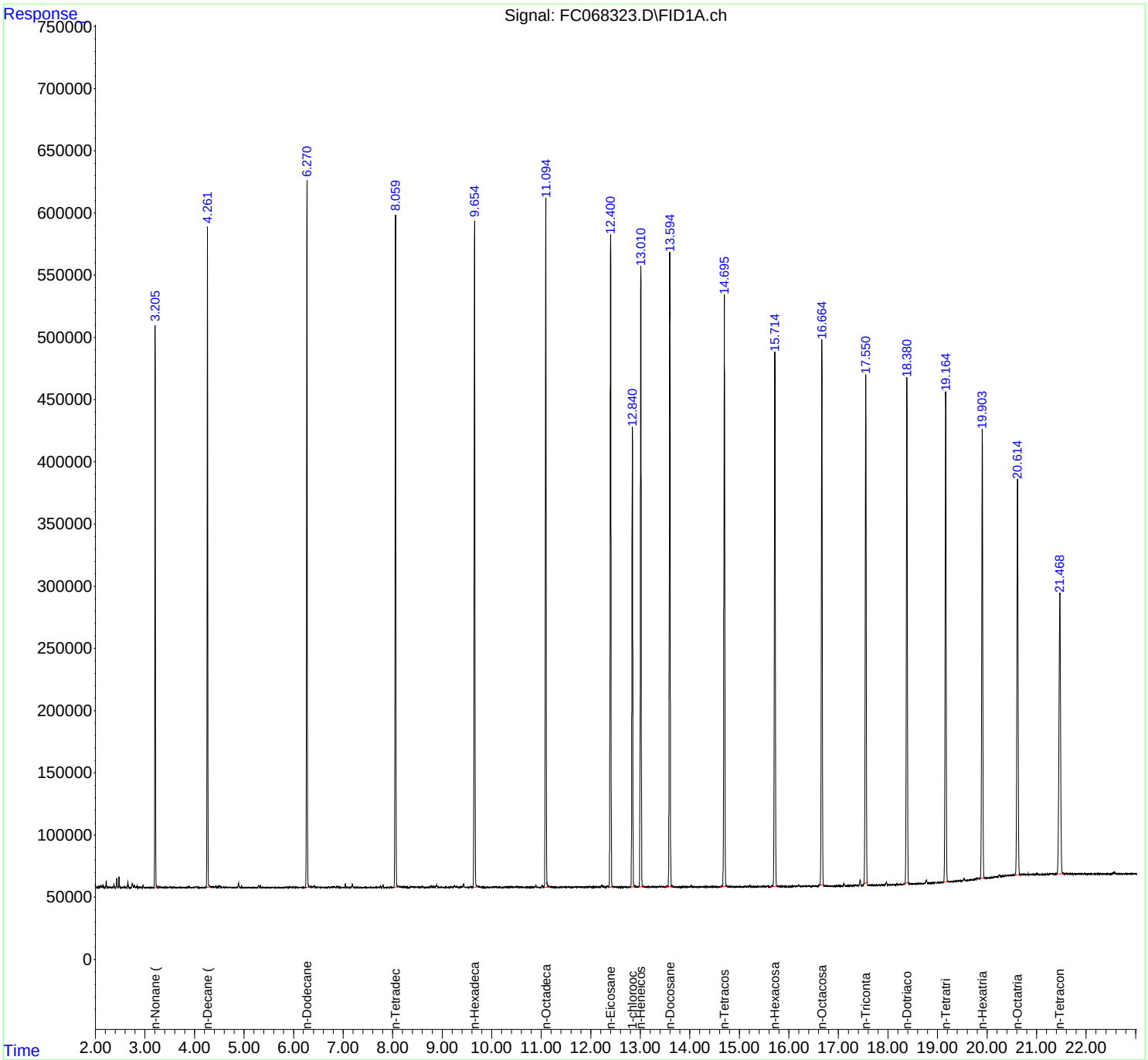
(f)=RT Delta > 1/2 Window (m)=manual int.

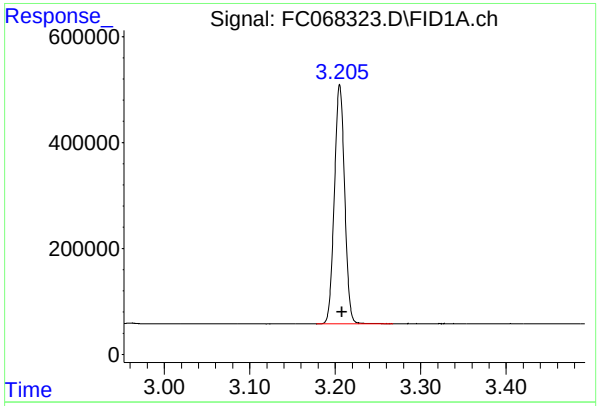
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 05 05:23:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

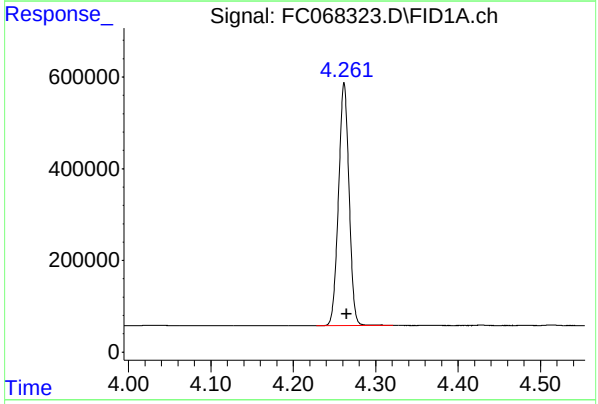




#1 n-Nonane (C9)

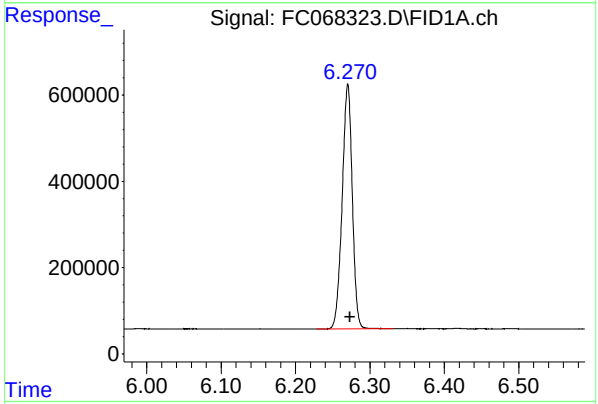
R.T.: 3.205 min
Delta R.T.: -0.003 min
Response: 3770437
Conc: 26.80 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BS



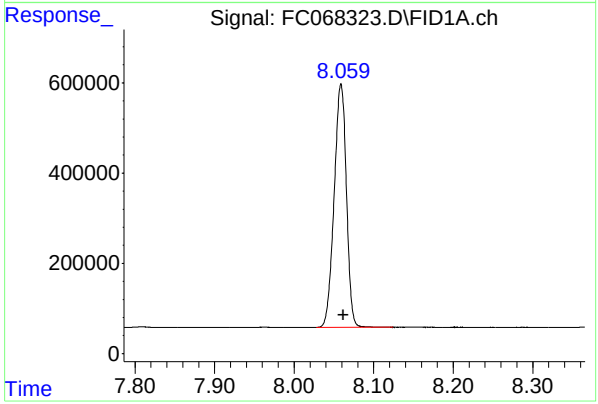
#2 n-Decane (C10)

R.T.: 4.262 min
Delta R.T.: -0.003 min
Response: 4690075
Conc: 33.11 ug/ml



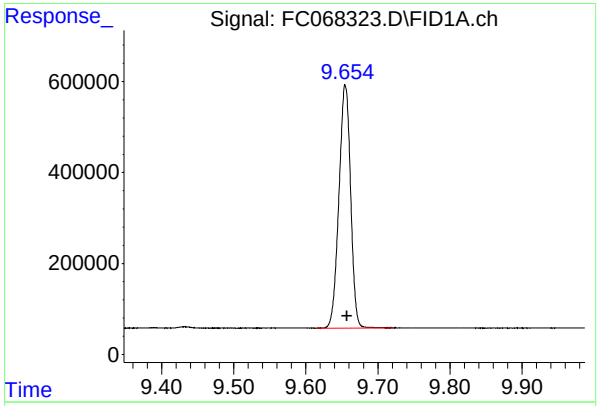
#4 n-Dodecane (C12)

R.T.: 6.270 min
Delta R.T.: -0.003 min
Response: 5370934
Conc: 38.16 ug/ml



#6 n-Tetradecane (C14)

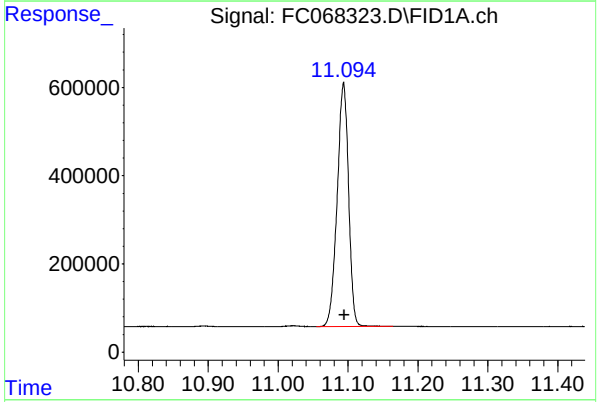
R.T.: 8.059 min
Delta R.T.: -0.003 min
Response: 5778269
Conc: 42.38 ug/ml



#7 n-Hexadecane (C16)

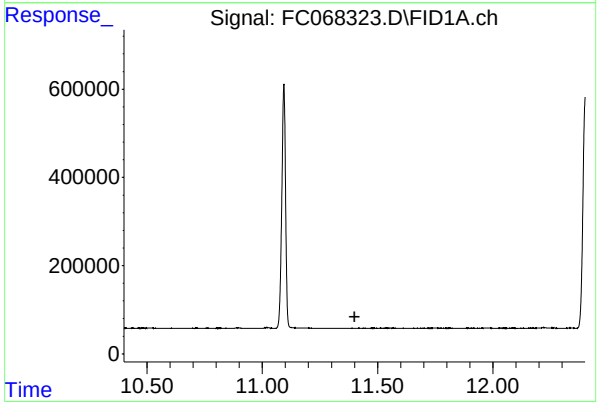
R.T.: 9.655 min
Delta R.T.: -0.003 min
Response: 6026599
Conc: 44.00 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BS



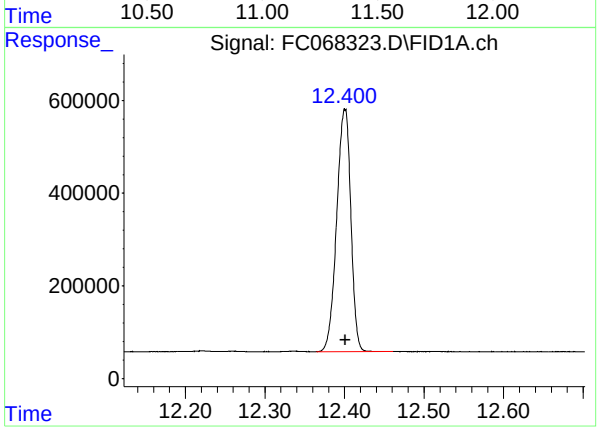
#8 n-Octadecane (C18)

R.T.: 11.094 min
Delta R.T.: -0.001 min
Response: 6267228
Conc: 45.83 ug/ml



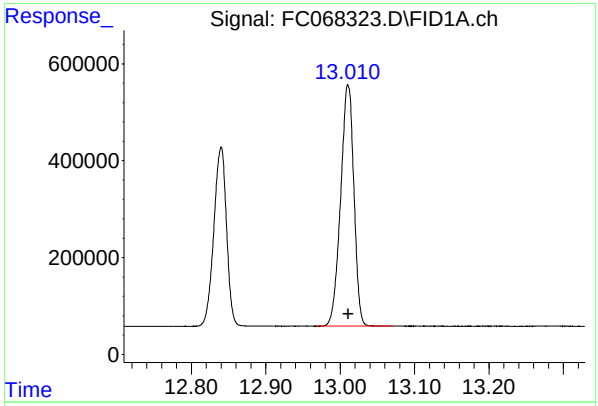
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

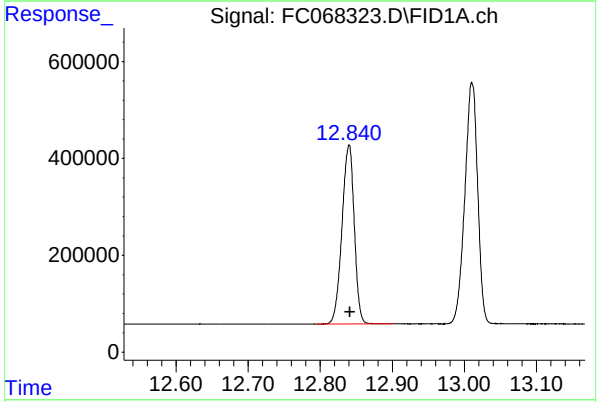
R.T.: 12.400 min
Delta R.T.: 0.000 min
Response: 6468032
Conc: 49.64 ug/ml



#11 n-Heneicosane (C21)

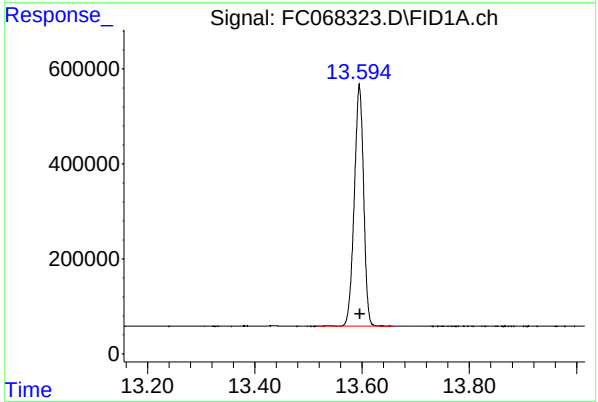
R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 6177617
Conc: 48.32 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BS



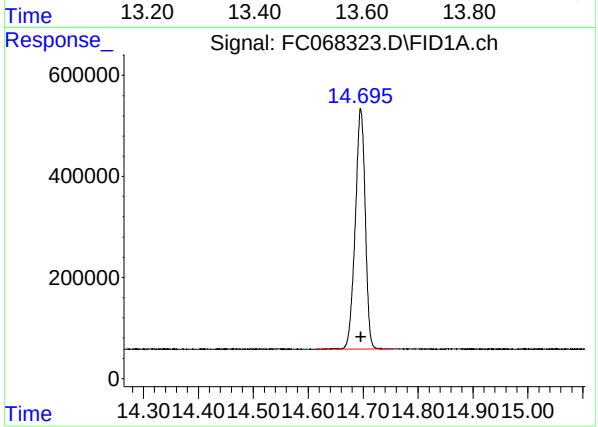
#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 4376930
Conc: 38.91 ug/ml



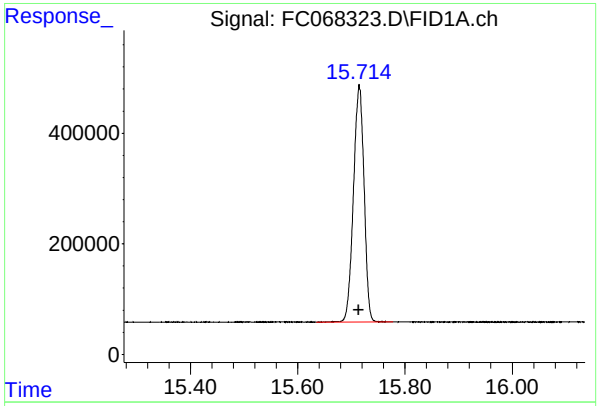
#13 n-Docosane (C22)

R.T.: 13.595 min
Delta R.T.: 0.000 min
Response: 6141972
Conc: 48.73 ug/ml



#14 n-Tetracosane (C24)

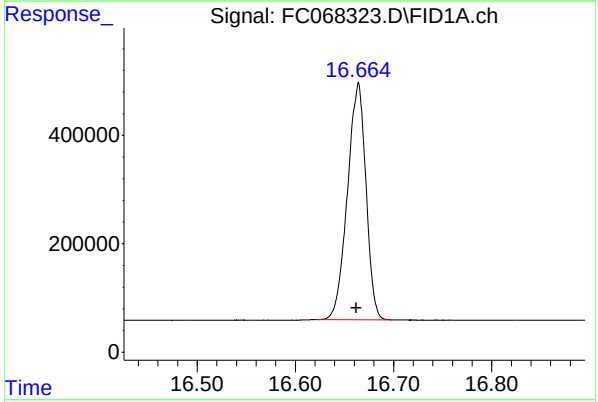
R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 6008487
Conc: 48.31 ug/ml



#15 n-Hexacosane (C26)

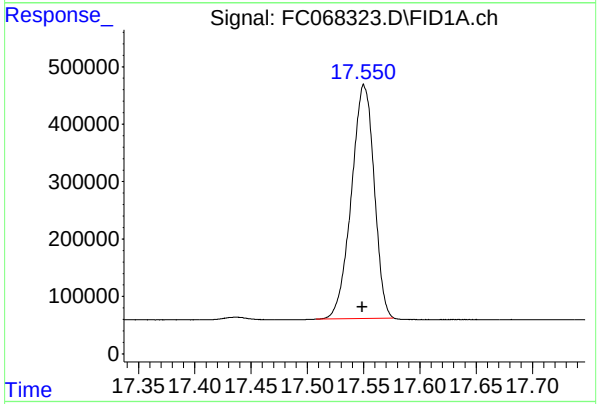
R.T.: 15.715 min
Delta R.T.: 0.000 min
Response: 5879209
Conc: 48.35 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BS



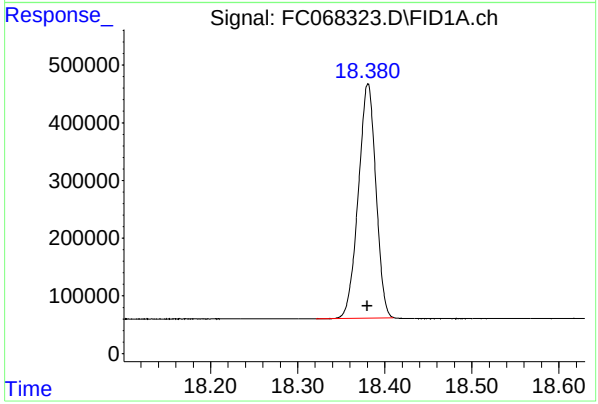
#16 n-Octacosane (C28)

R.T.: 16.664 min
Delta R.T.: 0.002 min
Response: 5728664
Conc: 48.23 ug/ml



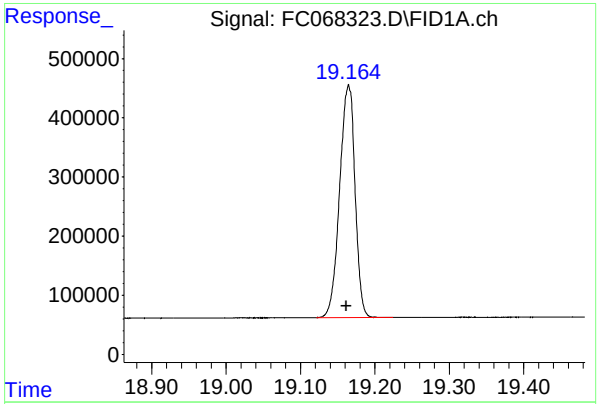
#17 n-Tricontane (C30)

R.T.: 17.550 min
Delta R.T.: 0.001 min
Response: 5730289
Conc: 47.61 ug/ml



#18 n-Dotriacontane (C32)

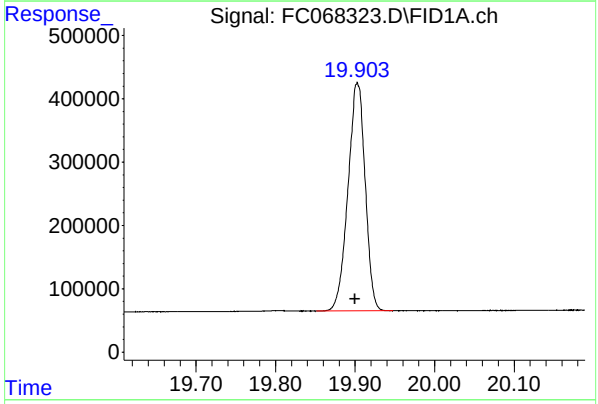
R.T.: 18.381 min
Delta R.T.: 0.000 min
Response: 5695730
Conc: 49.07 ug/ml



#19 n-Tetratriacontane (C34)

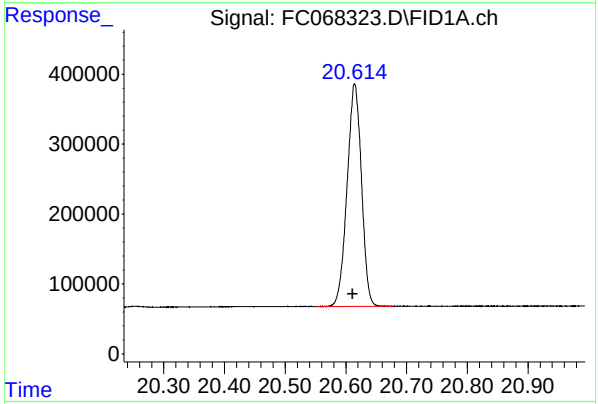
R.T.: 19.164 min
Delta R.T.: 0.003 min
Response: 5652338
Conc: 52.31 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BS



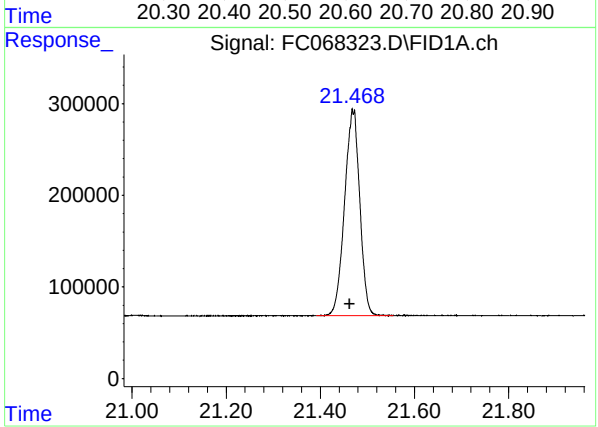
#20 n-Hexatriacontane (C36)

R.T.: 19.903 min
Delta R.T.: 0.003 min
Response: 5406820
Conc: 56.22 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.615 min
Delta R.T.: 0.004 min
Response: 5240074
Conc: 58.29 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.470 min
Delta R.T.: 0.007 min
Response: 5034272
Conc: 58.19 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068323.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.205	3.178	3.268	BB	449086	3770437	58.29%	3.570%
2	4.262	4.228	4.321	BB	526418	4690075	72.51%	4.441%
3	6.270	6.228	6.331	BB	569210	5370934	83.04%	5.085%
4	8.059	8.028	8.124	BB	538627	5778269	89.34%	5.471%
5	9.655	9.614	9.721	BB	535914	6026599	93.18%	5.706%
6	11.094	11.054	11.164	BB	550618	6267228	96.90%	5.934%
7	12.400	12.364	12.461	BB	527788	6468032	100.00%	6.124%
8	12.840	12.794	12.901	BB	374039	4376930	67.67%	4.144%
9	13.011	12.968	13.071	BB	499069	6177617	95.51%	5.849%
10	13.595	13.514	13.658	BB	506611	6141972	94.96%	5.815%
11	14.696	14.614	14.754	BB	474250	6008487	92.90%	5.689%
12	15.715	15.634	15.778	BB	426830	5879209	90.90%	5.567%
13	16.664	16.598	16.728	BB	438374	5768514	89.18%	5.462%
14	17.550	17.488	17.608	BB	407922	5811305	89.85%	5.502%
15	18.381	18.304	18.448	BB	407994	5745667	88.83%	5.440%
16	19.164	19.121	19.224	BB	392230	5652338	87.39%	5.352%
17	19.903	19.851	19.948	BB	359474	5406820	83.59%	5.119%
18	20.615	20.551	20.678	BB	318753	5240074	81.01%	4.961%
19	21.470	21.391	21.554	BB	221575	5034272	77.83%	4.767%

Sum of corrected areas: 105614773

Aliphatic EPH 021125.M Sat Mar 01 01:23:14 2025

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 905		Date Received:		
Client Sample ID:	PB166923BS		SDG No.:	Q1421	
Lab Sample ID:	PB166923BS		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
FD049131.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.49		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.1		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.5		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.3		40 - 140	117%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	61.9		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.0		40 - 140	106%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166923BS	Acq On:	28 Feb 2025 11:37
Client Sample ID:	PB166923BS	Operator:	YP/AJ
Data file:	FD049131.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15506186	97.511	200	ug/ml
Aromatic C12-C16	5.795	8.396	26811280	166.596	300	ug/ml
Aromatic C16-C21	8.397	12.661	49558614	323.154	500	ug/ml
Aromatic C21-C36	12.662	18.073	73636189	514.525	800	ug/ml
Aromatic EPH	4.076	18.073	165512269	1100		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8337130	58.26		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5441864	61.9		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8579131	53.03		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	8337130	58.257 ug/ml
	Spiked Amount 50.000		Recovery = 116.51%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5441864	61.901 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 123.80%	
11)	S ortho-Terphenyl (SURR)	11.237	8579131	53.031 ug/ml
	Spiked Amount 50.000		Recovery = 106.06%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	7284149	45.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	8222037	51.780 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8074488	51.862 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	9136899	56.191 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9599893	58.355 ug/ml
8)	T Flouorene (C16.55)	9.079	9673508	61.361 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9815403	65.132 ug/ml
10)	T Anthracene (C19.43)	10.543	9838705	65.145 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10212040	66.177 ug/ml
13)	T Pyrene (C20.8)	12.566	10018958	65.034 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9485151	72.191 ug/ml
15)	T Chrysene (C27.41)	14.479	9302019	57.531 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9472667	68.845 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9519915	60.275 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9102339	67.059 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.733	8774948	80.300 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	8997450	57.996 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.983	8981700	61.964 ug/ml

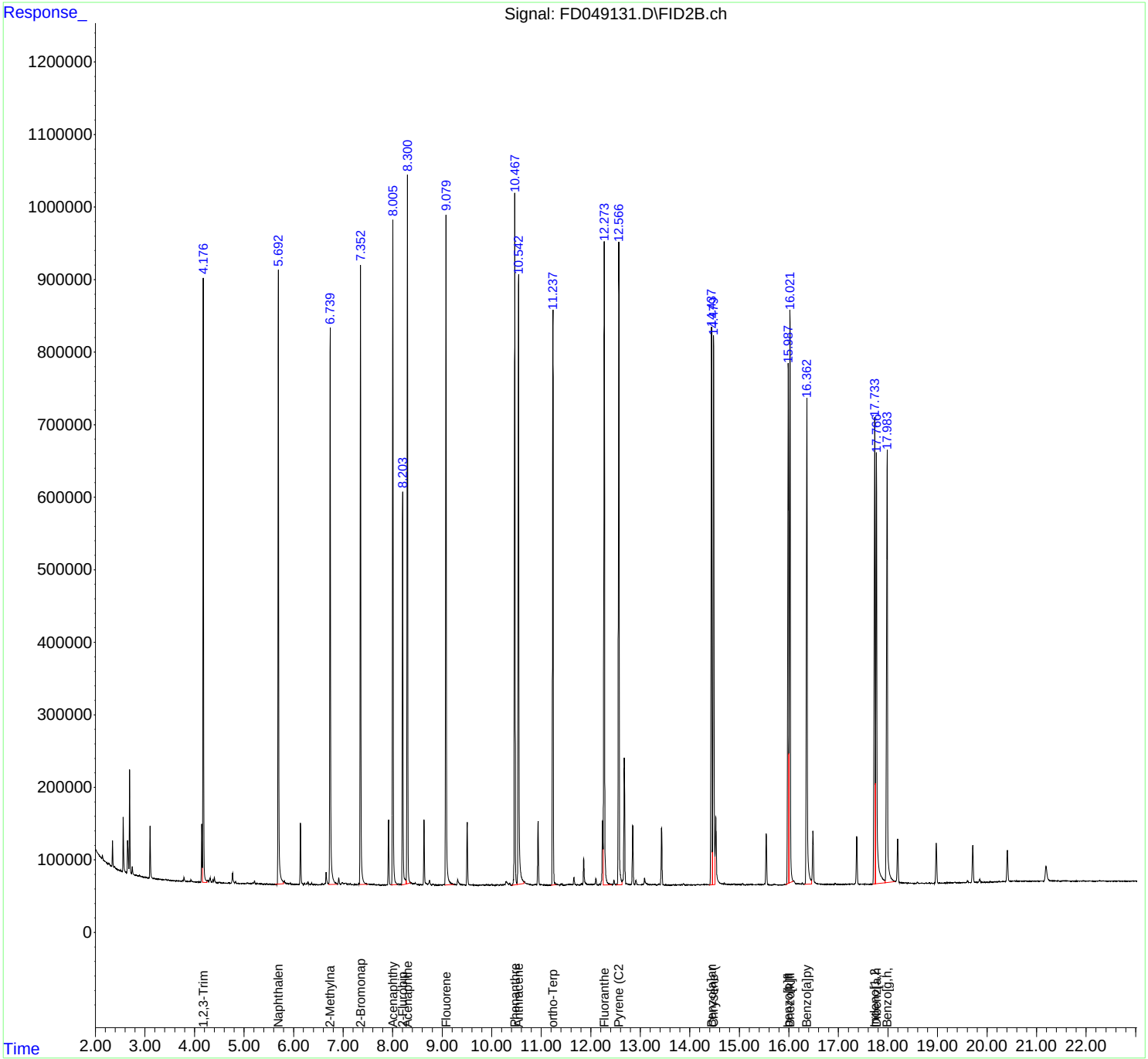
(f)=RT Delta > 1/2 Window (m)=manual int.

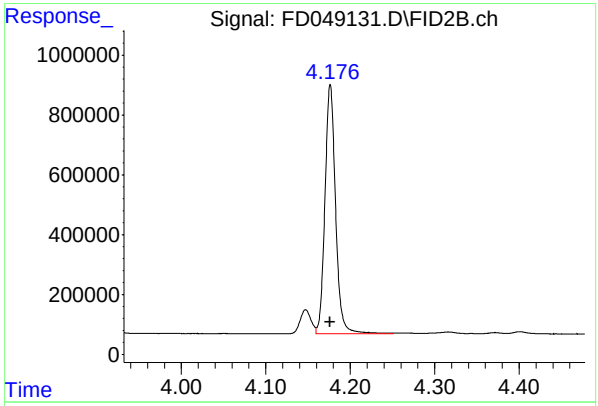
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Operator : YP/AJ
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BS

Integration File: autoint1.e
Quant Time: Mar 01 02:17:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

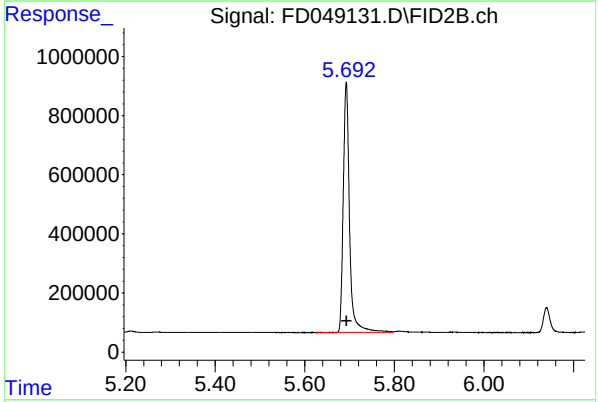




#1 1,2,3-Trimethylbenzene (C10.1)

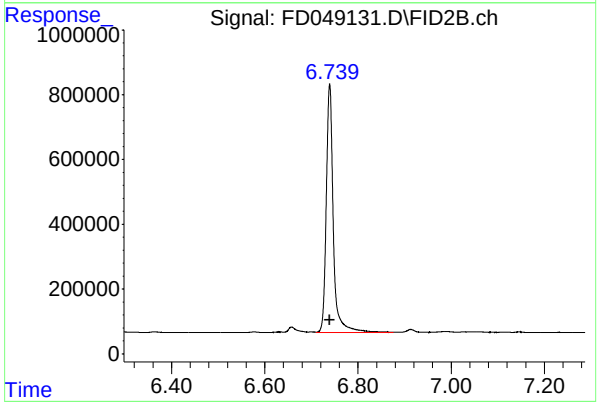
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 7284149
Conc: 45.74 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BS



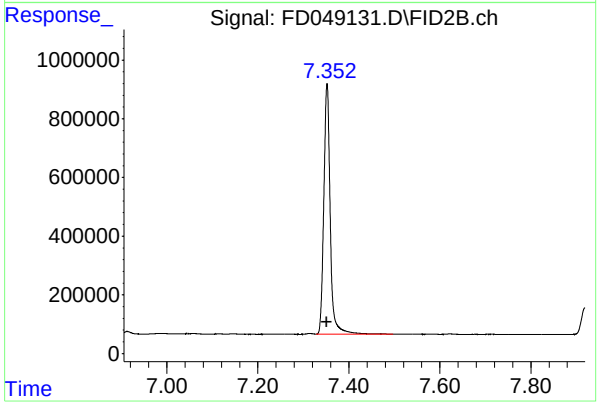
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 8222037
Conc: 51.78 ug/ml



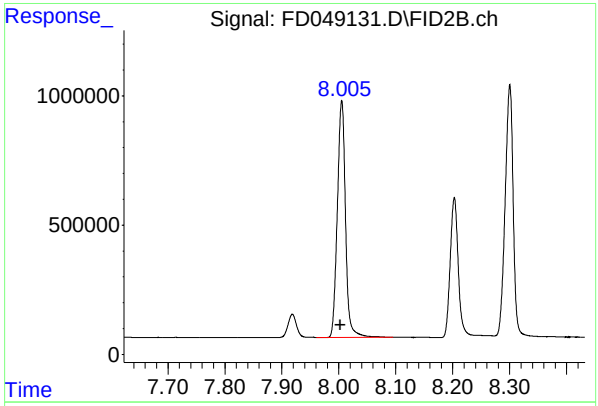
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 8074488
Conc: 51.86 ug/ml



#4 2-Bromonaphthalene (SURR)

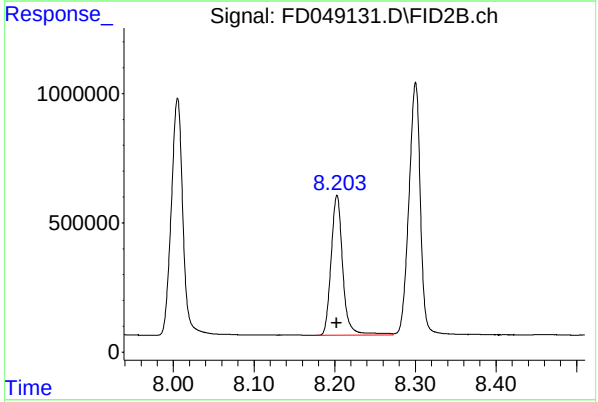
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8337130
Conc: 58.26 ug/ml



#5 Acenaphthylene (C15.06)

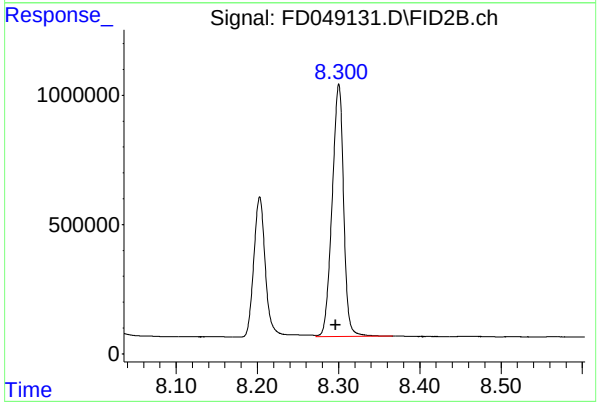
R.T.: 8.005 min
Delta R.T.: 0.002 min
Response: 9136899
Conc: 56.19 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BS



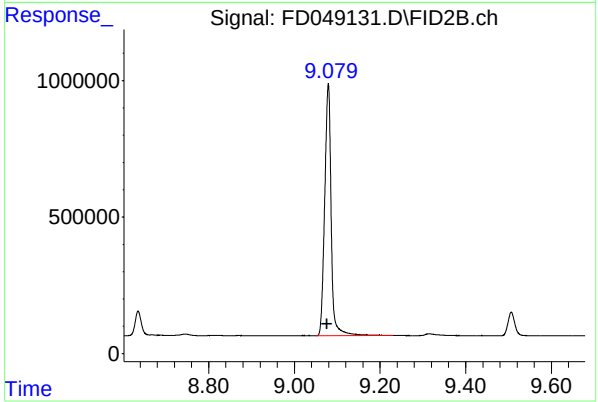
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 5441864
Conc: 61.90 ug/ml



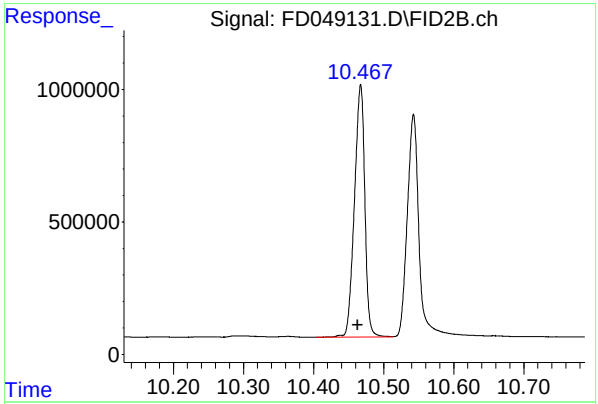
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.004 min
Response: 9599893
Conc: 58.35 ug/ml



#8 Flouorene (C16.55)

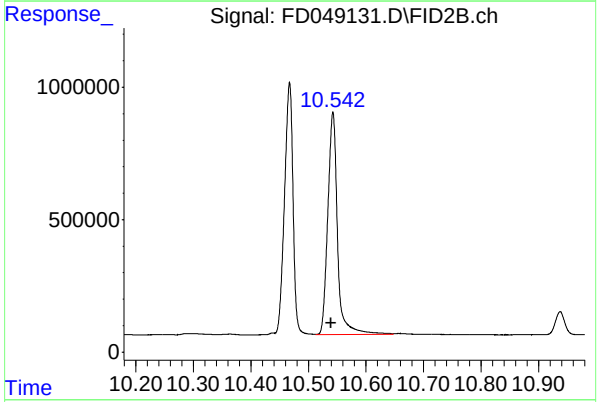
R.T.: 9.079 min
Delta R.T.: 0.003 min
Response: 9673508
Conc: 61.36 ug/ml



#9 Phenanthrene (C19.36)

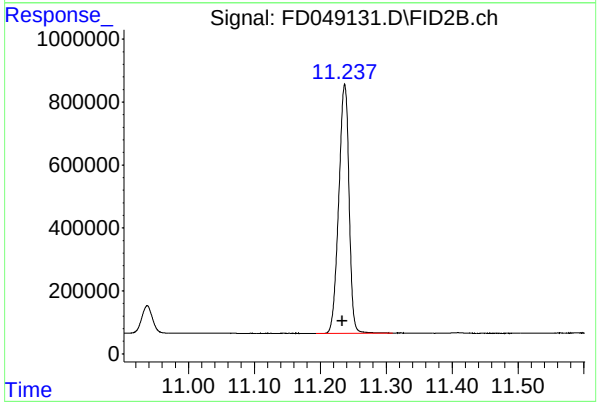
R.T.: 10.467 min
Delta R.T.: 0.004 min
Response: 9815403
Conc: 65.13 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BS



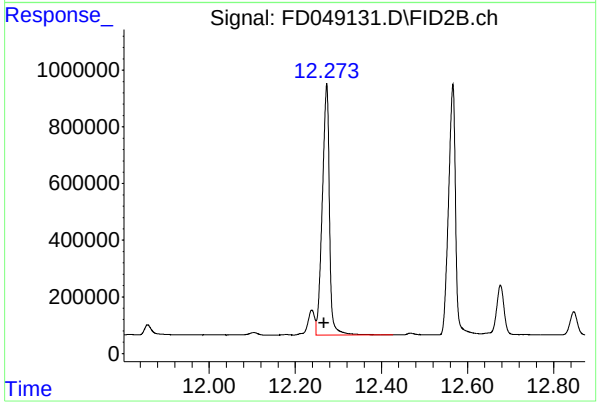
#10 Anthracene (C19.43)

R.T.: 10.543 min
Delta R.T.: 0.003 min
Response: 9838705
Conc: 65.14 ug/ml



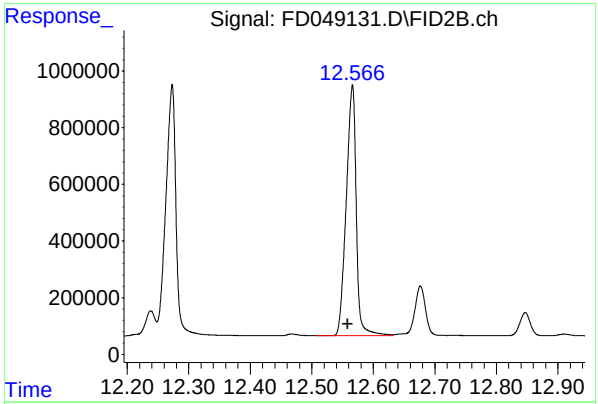
#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.004 min
Response: 8579131
Conc: 53.03 ug/ml



#12 Fluoranthene (C21.85)

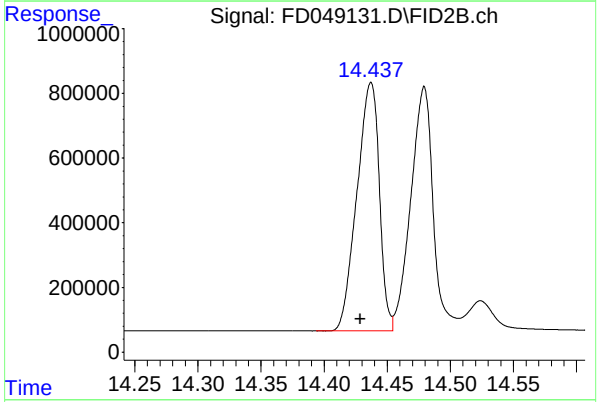
R.T.: 12.273 min
Delta R.T.: 0.006 min
Response: 10212040
Conc: 66.18 ug/ml



#13 Pyrene (C20.8)

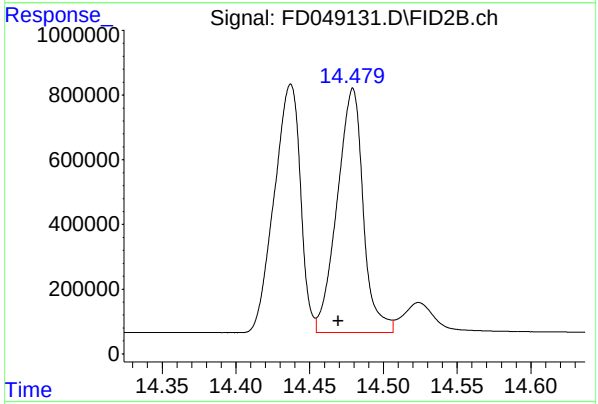
R.T.: 12.566 min
Delta R.T.: 0.008 min
Response: 10018958
Conc: 65.03 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BS



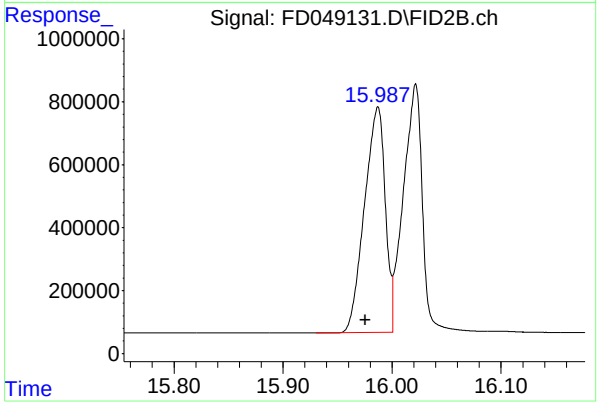
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.437 min
Delta R.T.: 0.009 min
Response: 9485151
Conc: 72.19 ug/ml



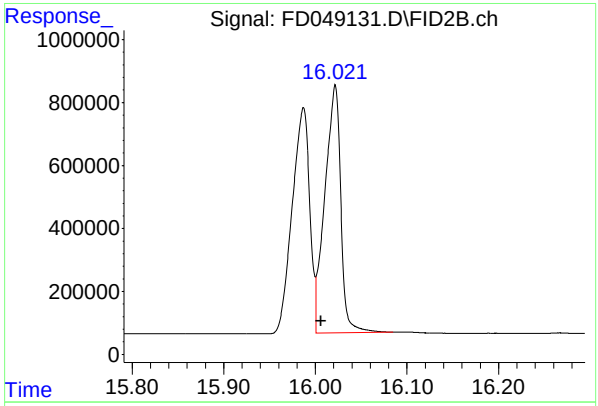
#15 Chrysene (C27.41)

R.T.: 14.479 min
Delta R.T.: 0.010 min
Response: 9302019
Conc: 57.53 ug/ml



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

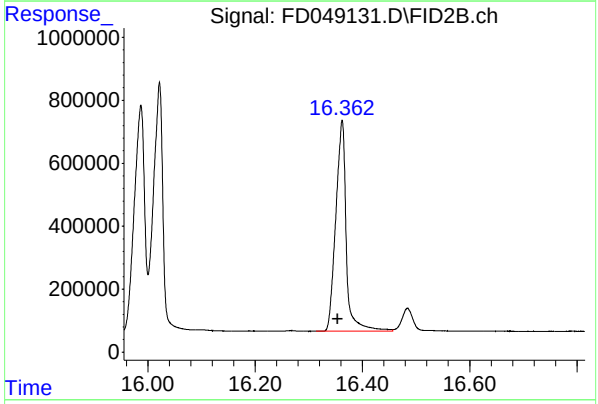
R.T.: 15.987 min
Delta R.T.: 0.011 min
Response: 9472667
Conc: 68.84 ug/ml



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

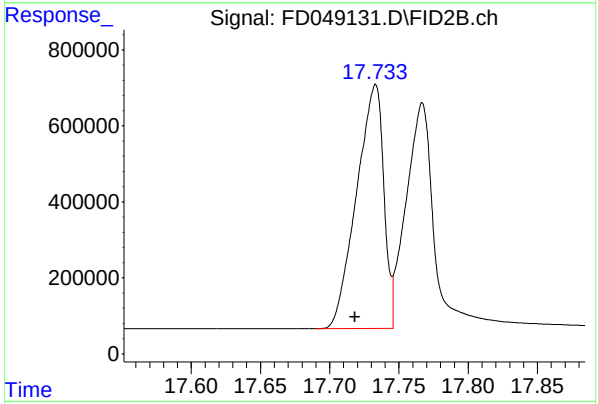
R.T.: 16.022 min
Delta R.T.: 0.015 min
Response: 9519915
Conc: 60.27 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BS



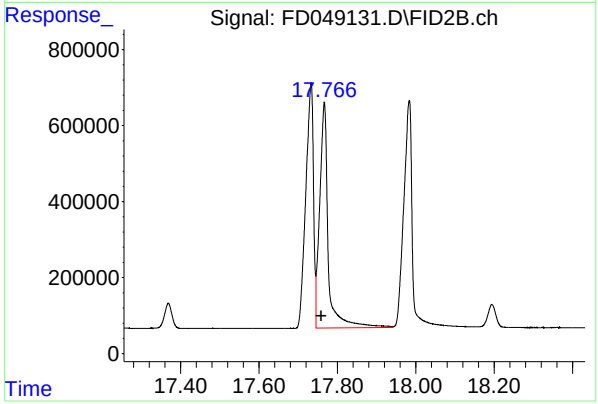
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.009 min
Response: 9102339
Conc: 67.06 ug/ml



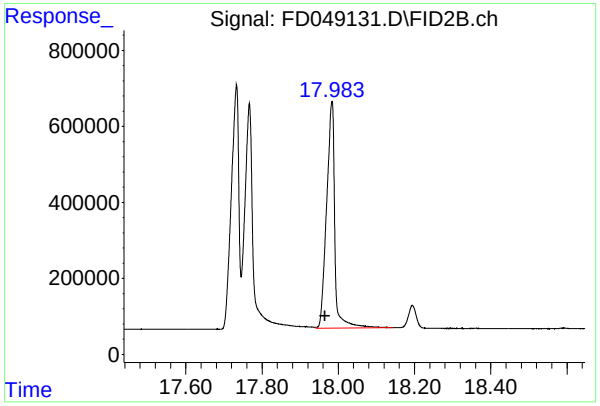
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.733 min
Delta R.T.: 0.015 min
Response: 8774948
Conc: 80.30 ug/ml



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

R.T.: 17.767 min
Delta R.T.: 0.008 min
Response: 8997450
Conc: 58.00 ug/ml



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

R.T.: 17.983 min
Delta R.T.: 0.018 mi
Response: 8981700
Conc: 61.96 ug/m

Instrument :
FID_D
ClientSampleId :
PB166923BS

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049131.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 11:37
Sample : PB166923BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.176	4.160	4.251	VV	832466	7284149	71.33%	3.877%
2	5.693	5.625	5.797	BV	847783	8222037	80.51%	4.376%
3	6.739	6.710	6.875	VV	766284	8074488	79.07%	4.298%
4	7.352	7.328	7.497	VB	853398	8337130	81.64%	4.438%
5	8.005	7.960	8.095	BV	916751	9136899	89.47%	4.863%
6	8.203	8.177	8.272	BV	542452	5441864	53.29%	2.897%
7	8.300	8.272	8.367	VV	975321	9599893	94.01%	5.110%
8	9.079	9.051	9.230	PV	926912	9673508	94.73%	5.149%
9	10.467	10.403	10.513	BV	952424	9815403	96.12%	5.225%
10	10.543	10.513	10.647	VV	840898	9838705	96.34%	5.237%
11	11.237	11.193	11.310	BV	791167	8579131	84.01%	4.567%
12	12.273	12.248	12.427	VB	888617	10212040	100.00%	5.436%
13	12.566	12.507	12.632	VV	889348	10018958	98.11%	5.333%
14	14.437	14.393	14.454	BV	768080	9485151	92.88%	5.049%
15	14.479	14.454	14.507	VV	756410	9302019	91.09%	4.951%
16	15.987	15.930	16.001	BV	716637	9472667	92.76%	5.042%
17	16.022	16.001	16.085	VV	788969	9519915	93.22%	5.067%
18	16.362	16.313	16.457	BV	670089	9102339	89.13%	4.845%
19	17.733	17.690	17.746	BV	643928	8774948	85.93%	4.671%
20	17.767	17.746	17.942	VV	594625	8997450	88.11%	4.789%
21	17.983	17.942	18.143	VV	596917	8981700	87.95%	4.781%

Sum of corrected areas: 187870394

Aromatic EPH 021125.M Sat Mar 01 03:53:48 2025

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 905			Date Received:	
Client Sample ID:	PB166923BSD			SDG No.:	Q1421
Lab Sample ID:	PB166923BSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
02/27/25 13:10	02/28/25 12:13	PB166923

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.56		1	0.38	1.00	mg/kg	FC068324.D
Aliphatic C12-C16	Aliphatic C12-C16	5.75		1	0.24	0.67	mg/kg	FC068324.D
Aliphatic C16-C21	Aliphatic C16-C21	9.54		1	0.30	1.00	mg/kg	FC068324.D
Aliphatic C21-C28	Aliphatic C21-C28	12.9		1	0.80	1.33	mg/kg	FC068324.D
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1	1.80	2.00	mg/kg	FC068324.D
Aromatic C10-C12	Aromatic C10-C12	6.56		1	0.30	0.67	mg/kg	FD049132.D
Aromatic C12-C16	Aromatic C12-C16	11.3		1	0.34	1.00	mg/kg	FD049132.D
Aromatic C16-C21	Aromatic C16-C21	21.8		1	0.96	1.67	mg/kg	FD049132.D
Aromatic C21-C36	Aromatic C21-C36	34.9		1	2.00	2.66	mg/kg	FD049132.D
Total AliphaticEPH	Total AliphaticEPH	56.1			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	74.6			3.60	6.00	mg/kg	
Total EPH	Total EPH	131			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 905		Date Received:		
Client Sample ID:	PB166923BSD		SDG No.:	Q1421	
Lab Sample ID:	PB166923BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068324.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.56		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.75		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.54		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.9		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.4		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	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:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FC068324.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	3.104	6.369	13889956	98.486	300	ug/ml
Aliphatic C12-C16	6.370	9.754	11796061	86.32	200	ug/ml
Aliphatic C16-C21	9.755	13.107	18839655	143.125	300	ug/ml
Aliphatic C21-C28	13.108	16.761	23724700	193.369	400	ug/ml
Aliphatic C28-C40	16.762	21.565	33036052	321.217	600	ug/ml
Aliphatic EPH	3.104	21.565	101286424	842.517		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	4356774	38.74		ug/ml
Aliphatic C9-C28	3.104	16.761	68250372	521.3	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	4356774	38.736 ug/ml
Spiked Amount	50.000		Recovery =	77.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3794951	26.976 ug/ml
2) T	n-Decane (C10)	4.262	4712176	33.261 ug/ml
4) T	n-Dodecane (C12)	6.270	5382829	38.242 ug/ml
6) T	n-Tetradecane (C14)	8.059	5779518	42.389 ug/ml
7) T	n-Hexadecane (C16)	9.655	6016543	43.927 ug/ml
8) T	n-Octadecane (C18)	11.093	6243297	45.652 ug/ml
10) T	n-Eicosane (C20)	12.399	6441586	49.442 ug/ml
11) T	n-Heneicosane (C21)	13.010	6154772	48.142 ug/ml
13) T	n-Docosane (C22)	13.595	6104328	48.436 ug/ml
14) T	n-Tetracosane (C24)	14.697	5990514	48.164 ug/ml
15) T	n-Hexacosane (C26)	15.715	5861152	48.203 ug/ml
16) T	n-Octacosane (C28)	16.664	5725382	48.207 ug/ml
17) T	n-Tricontane (C30)	17.551	5737111	47.664 ug/ml
18) T	n-Dotriacontane (C32)	18.381	5715622	49.244 ug/ml
19) T	n-Tetratriacontane (C34)	19.163	5668029	52.453 ug/ml
20) T	n-Hexatriacontane (C36)	19.902	5431820	56.482 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5265474	58.572 ug/ml
22) T	n-Tetracontane (C40)	21.470	5078129	58.693 ug/ml

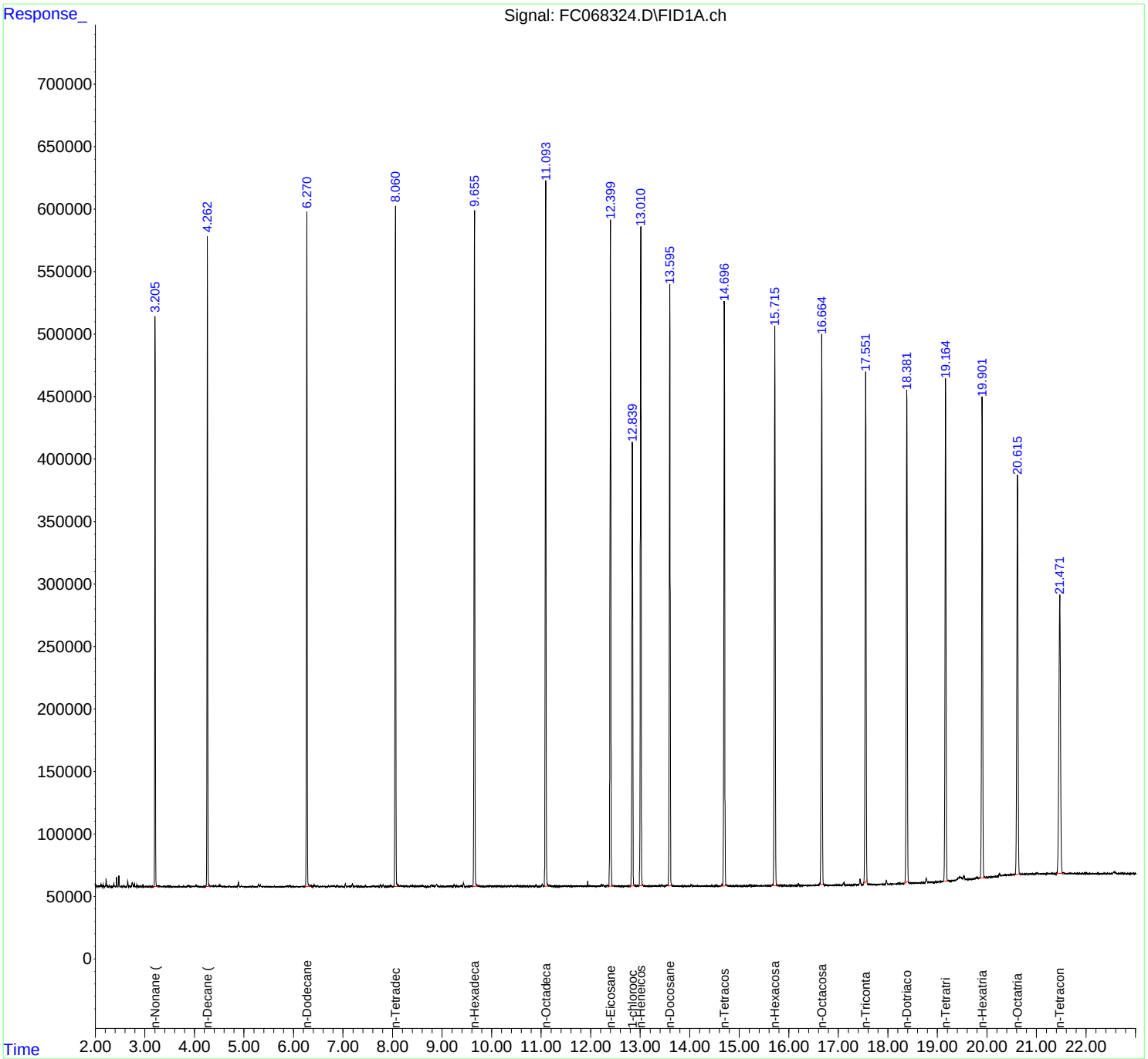
(f)=RT Delta > 1/2 Window (m)=manual int.

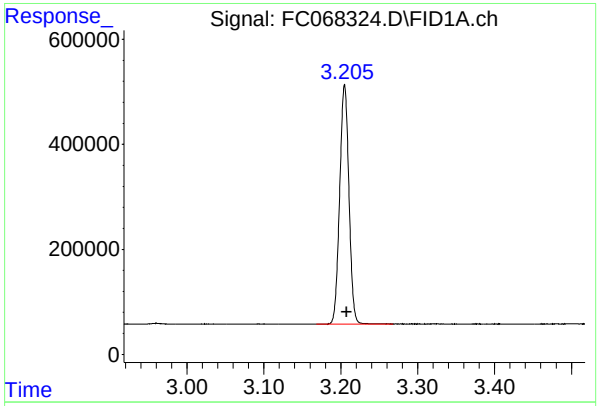
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 05 05:23:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

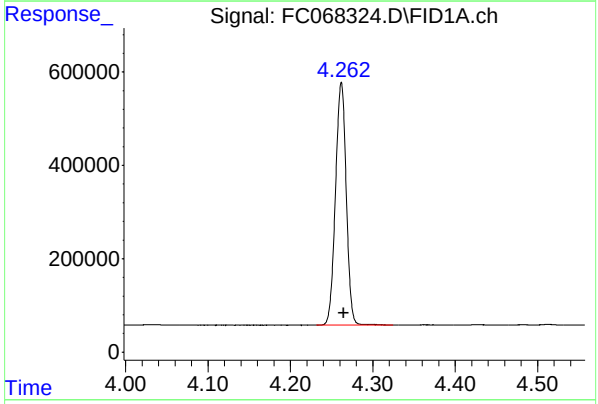




#1 n-Nonane (C9)

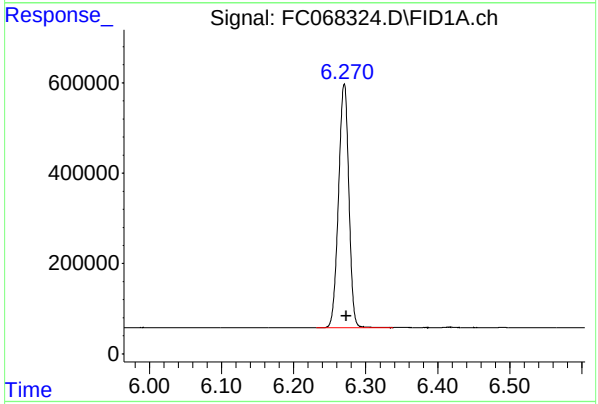
R.T.: 3.205 min
Delta R.T.: -0.003 min
Response: 3794951
Conc: 26.98 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BSD



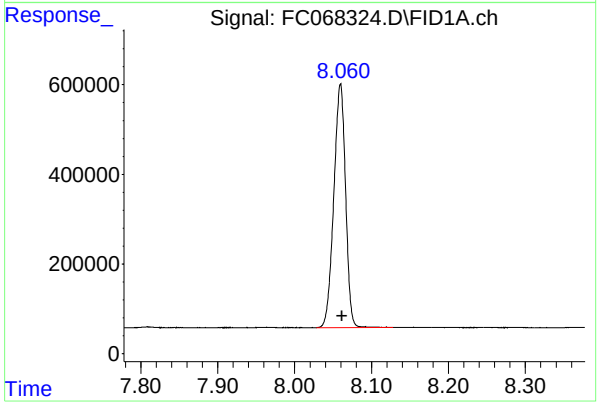
#2 n-Decane (C10)

R.T.: 4.262 min
Delta R.T.: -0.003 min
Response: 4712176
Conc: 33.26 ug/ml



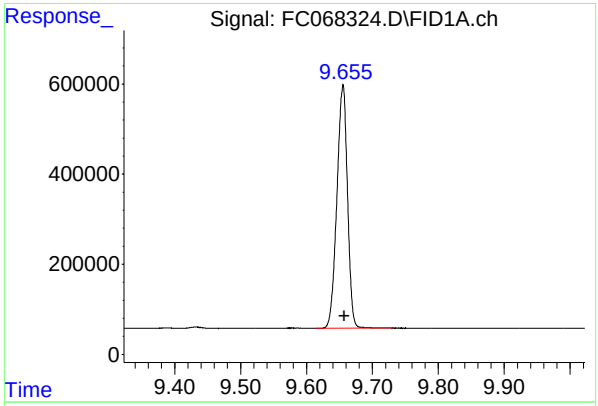
#4 n-Dodecane (C12)

R.T.: 6.270 min
Delta R.T.: -0.003 min
Response: 5382829
Conc: 38.24 ug/ml



#6 n-Tetradecane (C14)

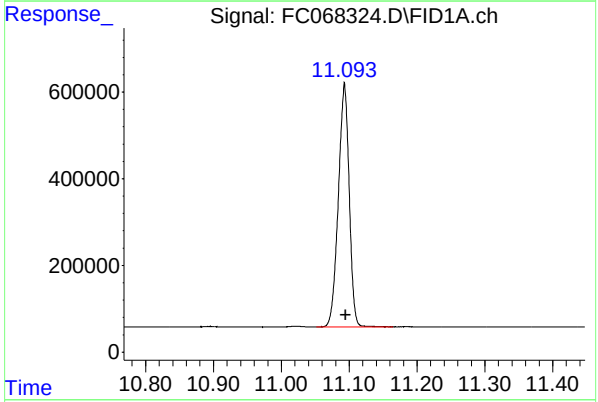
R.T.: 8.059 min
Delta R.T.: -0.002 min
Response: 5779518
Conc: 42.39 ug/ml



#7 n-Hexadecane (C16)

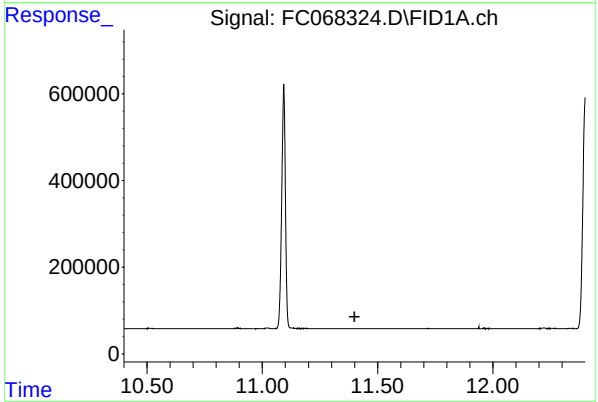
R.T.: 9.655 min
Delta R.T.: -0.002 min
Response: 6016543
Conc: 43.93 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BSD



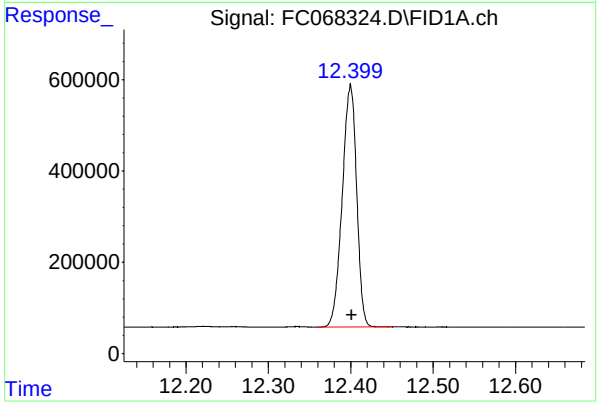
#8 n-Octadecane (C18)

R.T.: 11.093 min
Delta R.T.: -0.002 min
Response: 6243297
Conc: 45.65 ug/ml



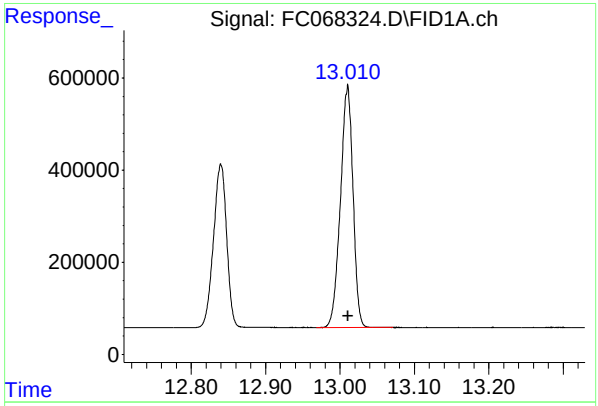
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

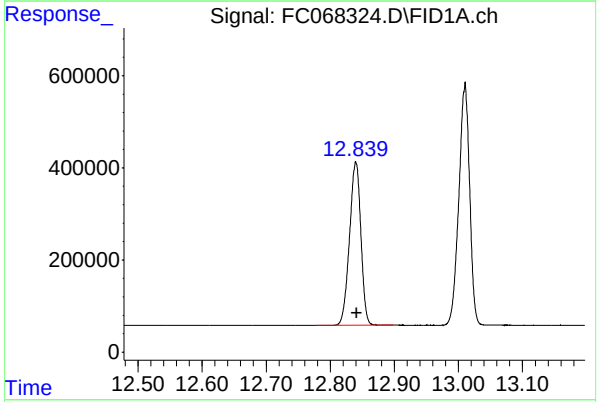
R.T.: 12.399 min
Delta R.T.: -0.001 min
Response: 6441586
Conc: 49.44 ug/ml



#11 n-Heneicosane (C21)

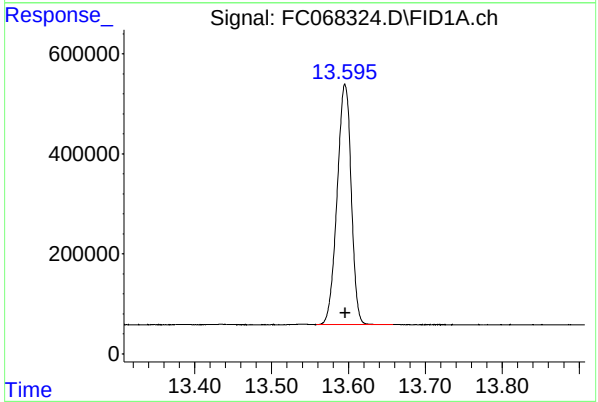
R.T.: 13.010 min
Delta R.T.: 0.000 min
Response: 6154772
Conc: 48.14 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BSD



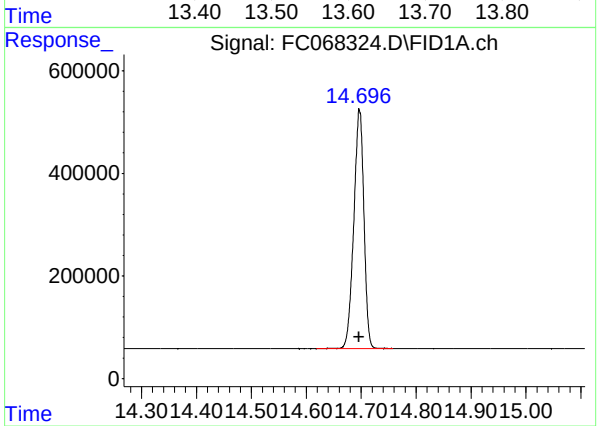
#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.002 min
Response: 4356774
Conc: 38.74 ug/ml



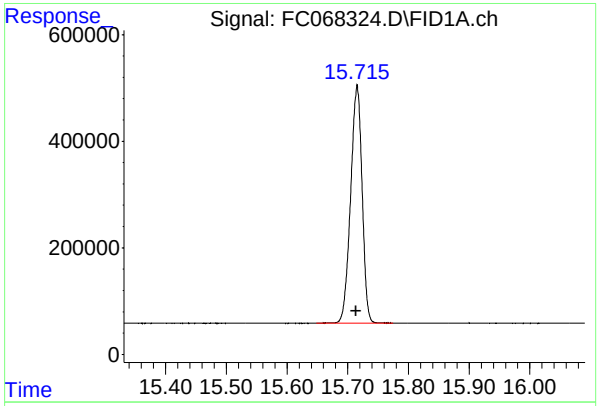
#13 n-Docosane (C22)

R.T.: 13.595 min
Delta R.T.: 0.000 min
Response: 6104328
Conc: 48.44 ug/ml



#14 n-Tetracosane (C24)

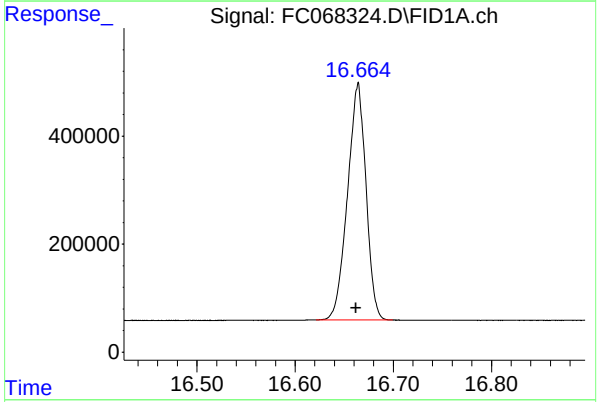
R.T.: 14.697 min
Delta R.T.: 0.000 min
Response: 5990514
Conc: 48.16 ug/ml



#15 n-Hexacosane (C26)

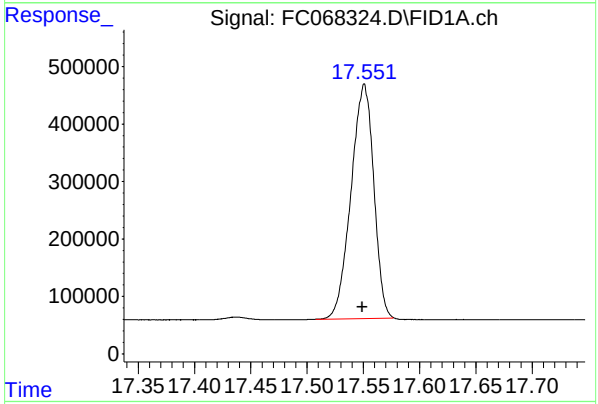
R.T.: 15.715 min
Delta R.T.: 0.001 min
Response: 5861152
Conc: 48.20 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BSD



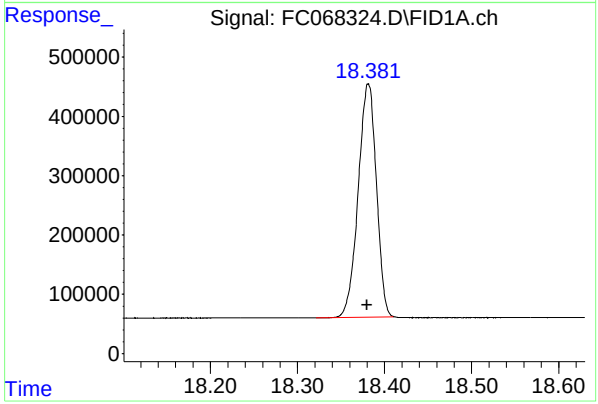
#16 n-Octacosane (C28)

R.T.: 16.664 min
Delta R.T.: 0.002 min
Response: 5725382
Conc: 48.21 ug/ml



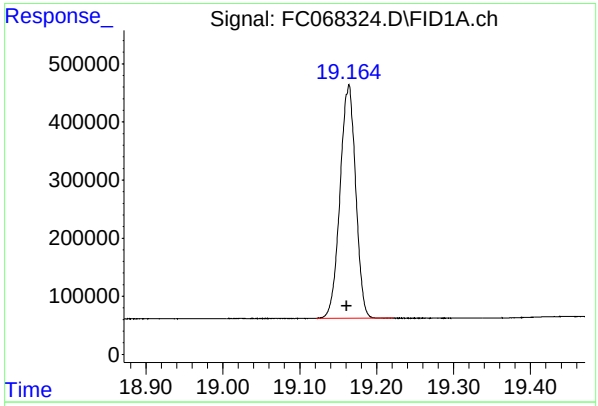
#17 n-Tricontane (C30)

R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 5737111
Conc: 47.66 ug/ml



#18 n-Dotriacontane (C32)

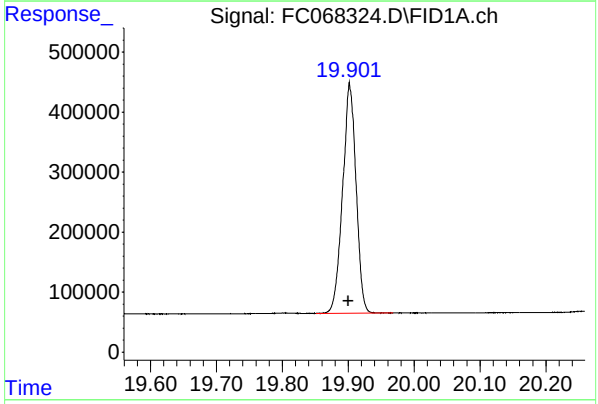
R.T.: 18.381 min
Delta R.T.: 0.002 min
Response: 5715622
Conc: 49.24 ug/ml



#19 n-Tetratriacontane (C34)

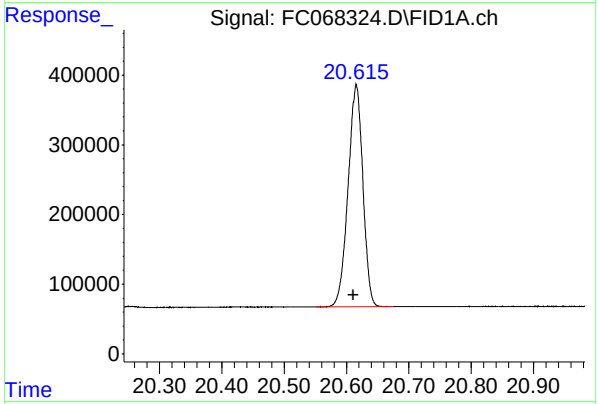
R.T.: 19.163 min
Delta R.T.: 0.002 min
Response: 5668029
Conc: 52.45 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166923BSD



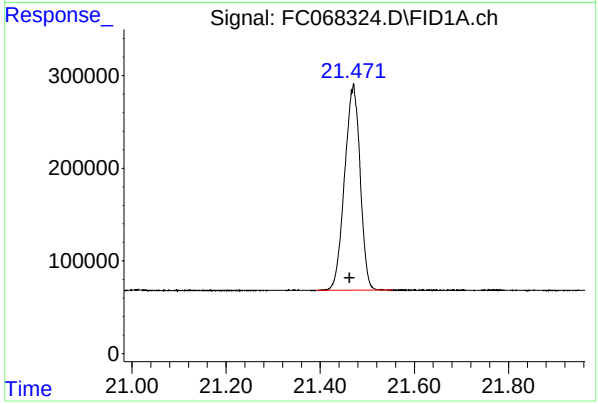
#20 n-Hexatriacontane (C36)

R.T.: 19.902 min
Delta R.T.: 0.002 min
Response: 5431820
Conc: 56.48 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.616 min
Delta R.T.: 0.005 min
Response: 5265474
Conc: 58.57 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.470 min
Delta R.T.: 0.007 min
Response: 5078129
Conc: 58.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068324.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	3.205	3.168	3.268	BB	454324	3794951	58.91%	3.592%
2	4.262	4.231	4.325	BB	517887	4712176	73.15%	4.460%
3	6.270	6.231	6.338	BB	544816	5382829	83.56%	5.095%
4	8.059	8.028	8.128	BB	537206	5779518	89.72%	5.471%
5	9.655	9.615	9.731	BB	535033	6016543	93.40%	5.695%
6	11.093	11.051	11.165	BB	558187	6243297	96.92%	5.910%
7	12.399	12.358	12.451	BB	523836	6441586	100.00%	6.097%
8	12.840	12.778	12.898	BB	356315	4356774	67.64%	4.124%
9	13.010	12.968	13.071	BB	522913	6154772	95.55%	5.826%
10	13.595	13.558	13.658	BB	481011	6104328	94.76%	5.778%
11	14.697	14.618	14.758	BB	467416	5990514	93.00%	5.671%
12	15.715	15.648	15.775	BB	442423	5861152	90.99%	5.548%
13	16.664	16.598	16.728	BB	439005	5768706	89.55%	5.461%
14	17.551	17.491	17.608	BB	410276	5827258	90.46%	5.516%
15	18.381	18.315	18.445	BB	395852	5765342	89.50%	5.457%
16	19.163	19.121	19.221	BB	404106	5668029	87.99%	5.365%
17	19.902	19.851	19.968	BB	380790	5431820	84.32%	5.142%
18	20.616	20.551	20.675	BB	316762	5265474	81.74%	4.984%
19	21.470	21.391	21.555	BB	222869	5078129	78.83%	4.807%

Sum of corrected areas: 105643198

Aliphatic EPH 021125.M Sat Mar 01 01:23:32 2025

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 905		Date Received:		
Client Sample ID:	PB166923BSD		SDG No.:	Q1421	
Lab Sample ID:	PB166923BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.02 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049132.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.56		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.3		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	21.8		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	34.9		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	63.0		40 - 140	126%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	53.6		40 - 140	107%	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:	PB166923BSD	Acq On:	28 Feb 2025 12:13
Client Sample ID:	PB166923BSD	Operator:	YP/AJ
Data file:	FD049132.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15663141	98.498	200	ug/ml
Aromatic C12-C16	5.795	8.396	27228831	169.191	300	ug/ml
Aromatic C16-C21	8.397	12.661	50286158	327.898	500	ug/ml
Aromatic C21-C36	12.662	18.073	74965222	523.812	800	ug/ml
Aromatic EPH	4.076	18.073	168143352	1120		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	8675284	53.63		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8444315	59.01		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5539761	63.01		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	8444315	59.006 ug/ml
	Spiked Amount 50.000		Recovery = 118.01%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5539761	63.015 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 126.03%	
11)	S ortho-Terphenyl (SURR)	11.237	8675284	53.626 ug/ml
	Spiked Amount 50.000		Recovery = 107.25%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.177	7363423	46.237 ug/ml
2)	T Naphthalene (C11.7)	5.693	8299718	52.269 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	8179915	52.539 ug/ml
5)	T Acenaphthylene (C15.06)	8.006	9241947	56.837 ug/ml
7)	T Acenaphthene (C15.5)	8.301	9806969	59.614 ug/ml
8)	T Flouorene (C16.55)	9.079	9794107	62.126 ug/ml
9)	T Phenanthrene (C19.36)	10.467	9953645	66.049 ug/ml
10)	T Anthracene (C19.43)	10.543	10019118	66.339 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10371581	67.210 ug/ml
13)	T Pyrene (C20.8)	12.567	10147707	65.869 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9644699	73.405 ug/ml
15)	T Chrysene (C27.41)	14.480	9454131	58.472 ug/ml
16)	T benzo[b]fluoranthene ...	15.988	9628743	69.979 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9681524	61.298 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.364	9238467	68.062 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	8949996	81.902 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	9240484	59.562 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.985	9127178	62.967 ug/ml

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

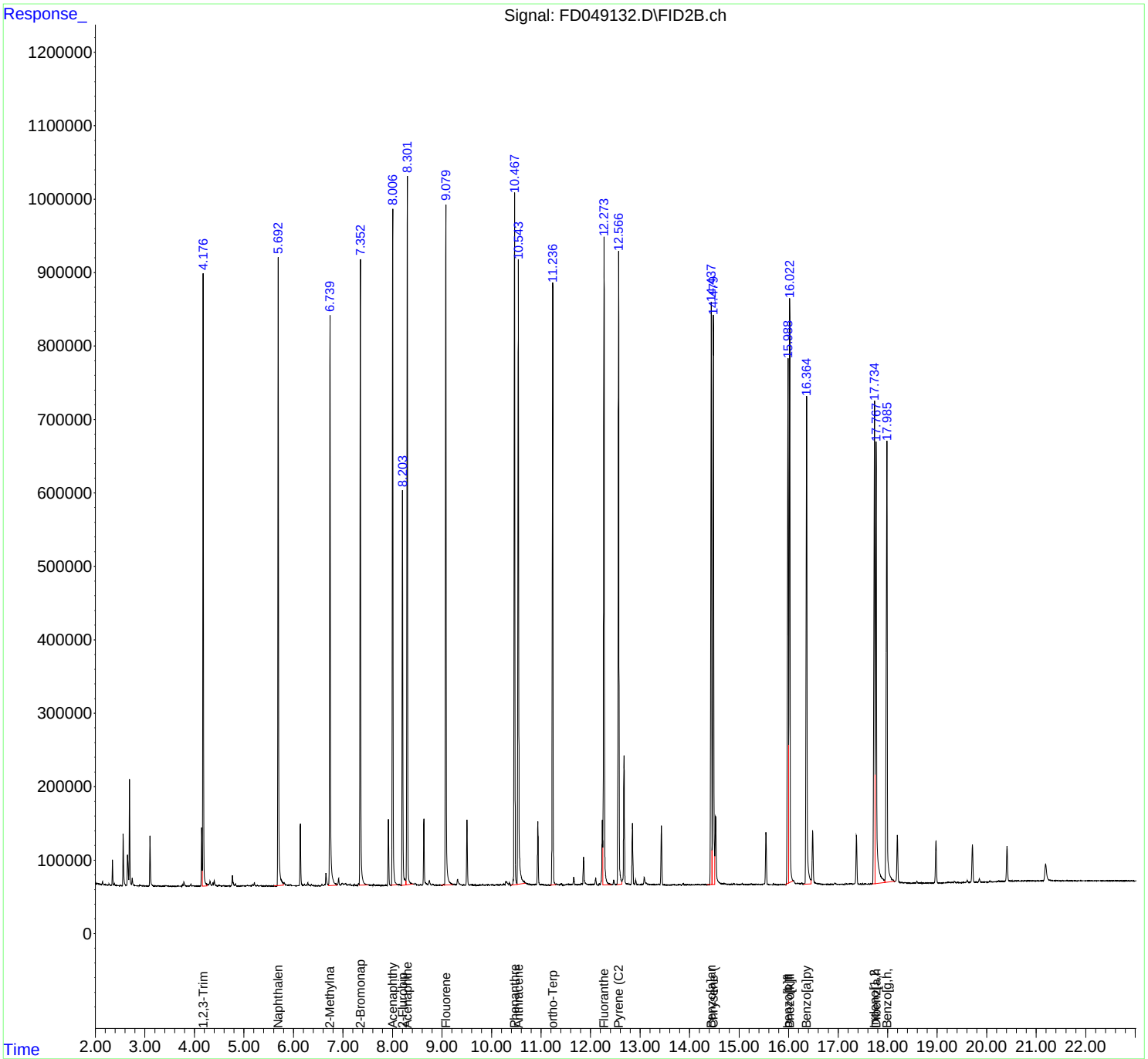
Quantitation Report (QT Reviewed)

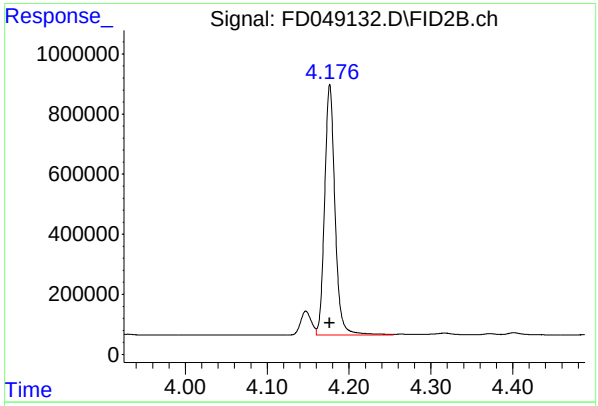
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Operator : YP/AJ
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166923BSD

Integration File: autoint1.e
Quant Time: Mar 01 02:17:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

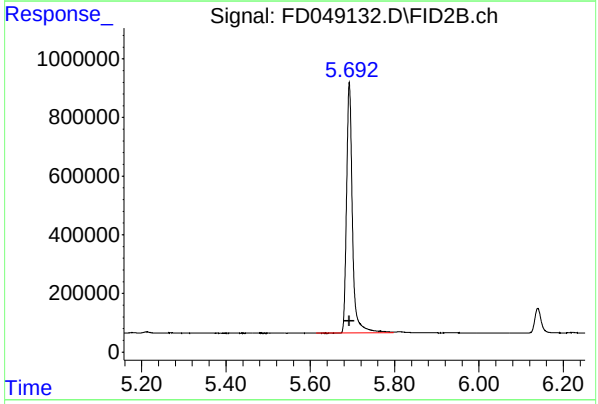




#1 1,2,3-Trimethylbenzene (C10.1)

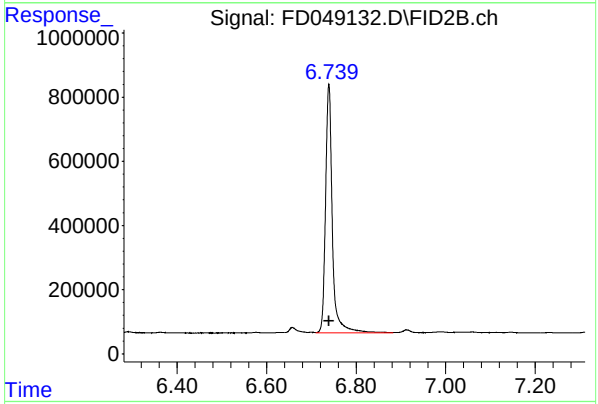
R.T.: 4.177 min
Delta R.T.: 0.000 min
Response: 7363423
Conc: 46.24 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BSD



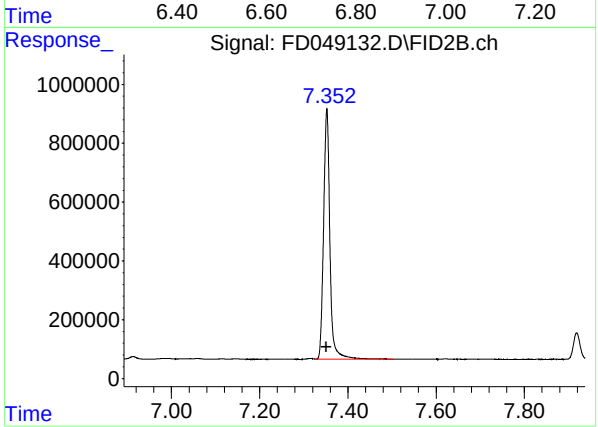
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 8299718
Conc: 52.27 ug/ml



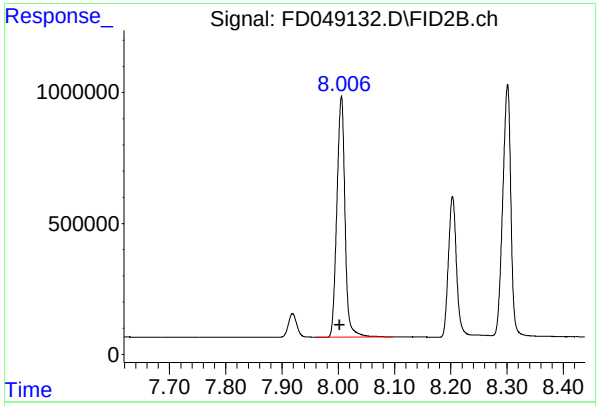
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 8179915
Conc: 52.54 ug/ml



#4 2-Bromonaphthalene (SURR)

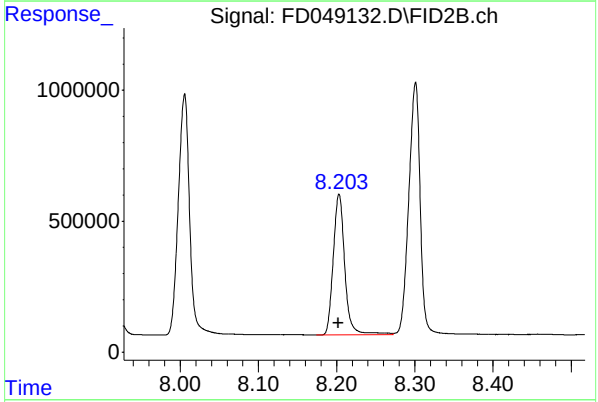
R.T.: 7.352 min
Delta R.T.: 0.001 min
Response: 8444315
Conc: 59.01 ug/ml



#5 Acenaphthylene (C15.06)

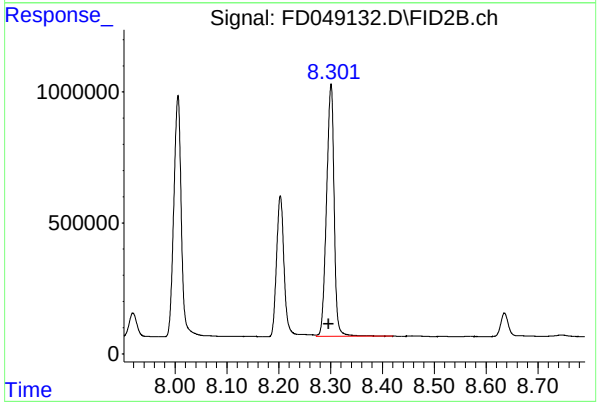
R.T.: 8.006 min
Delta R.T.: 0.003 min
Response: 9241947
Conc: 56.84 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BSD



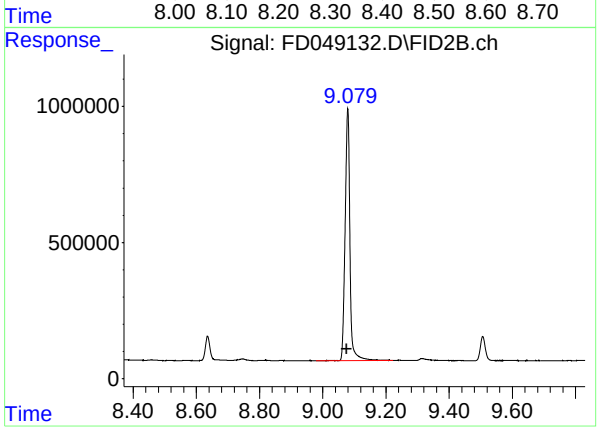
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 5539761
Conc: 63.01 ug/ml



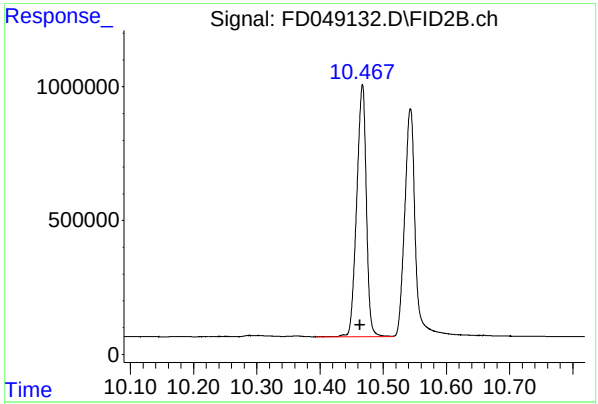
#7 Acenaphthene (C15.5)

R.T.: 8.301 min
Delta R.T.: 0.005 min
Response: 9806969
Conc: 59.61 ug/ml



#8 Flouorene (C16.55)

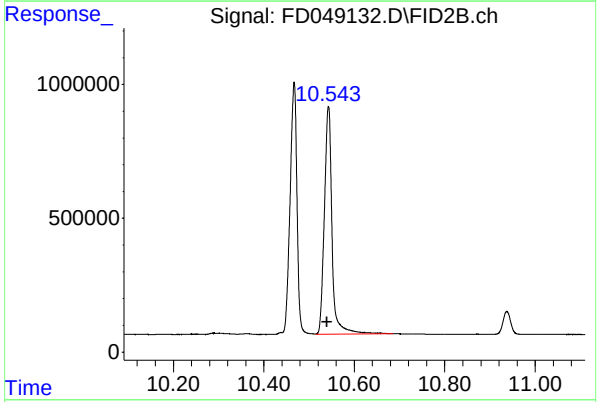
R.T.: 9.079 min
Delta R.T.: 0.003 min
Response: 9794107
Conc: 62.13 ug/ml



#9 Phenanthrene (C19.36)

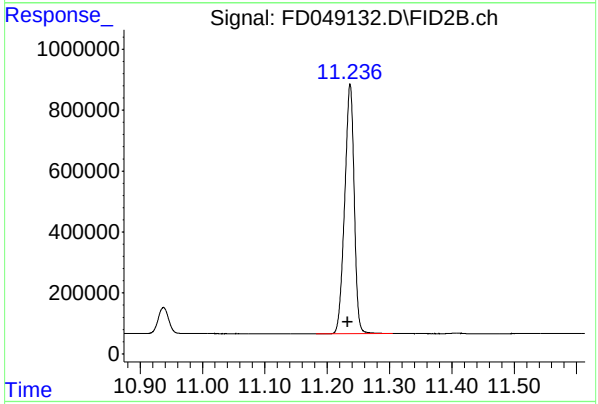
R.T.: 10.467 min
Delta R.T.: 0.004 min
Response: 9953645
Conc: 66.05 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BSD



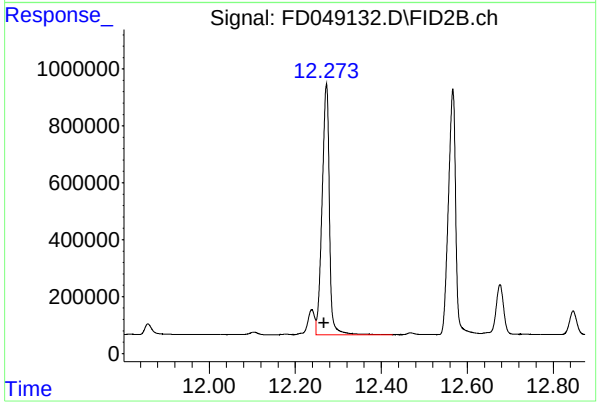
#10 Anthracene (C19.43)

R.T.: 10.543 min
Delta R.T.: 0.004 min
Response: 10019118
Conc: 66.34 ug/ml



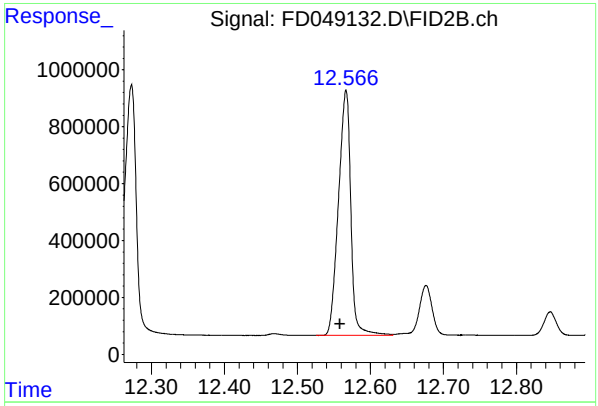
#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.004 min
Response: 8675284
Conc: 53.63 ug/ml



#12 Fluoranthene (C21.85)

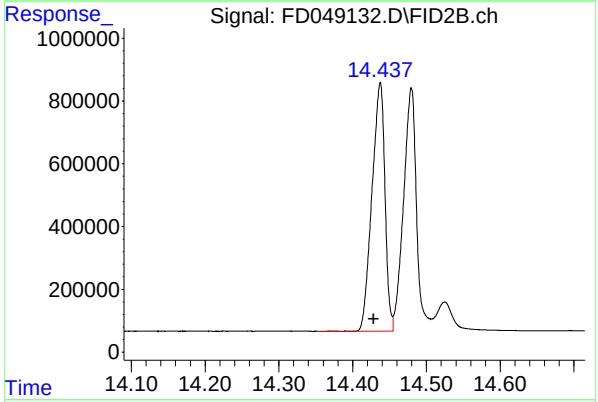
R.T.: 12.273 min
Delta R.T.: 0.006 min
Response: 10371581
Conc: 67.21 ug/ml



#13 Pyrene (C20.8)

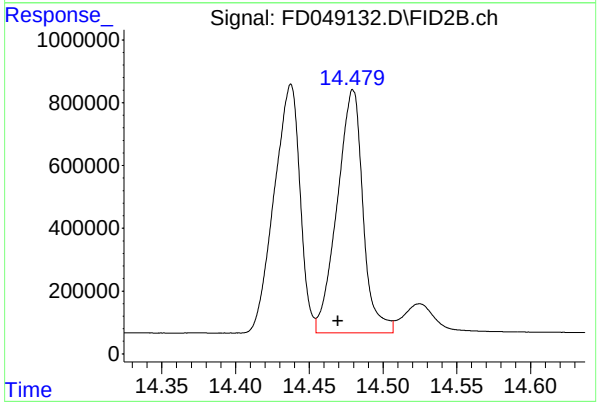
R.T.: 12.567 min
Delta R.T.: 0.008 min
Response: 10147707
Conc: 65.87 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BSD



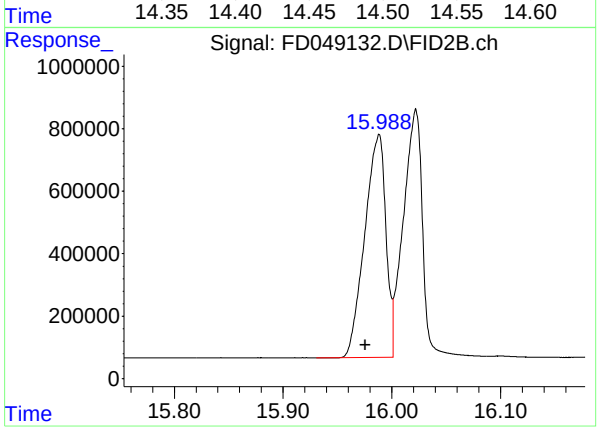
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.437 min
Delta R.T.: 0.009 min
Response: 9644699
Conc: 73.41 ug/ml



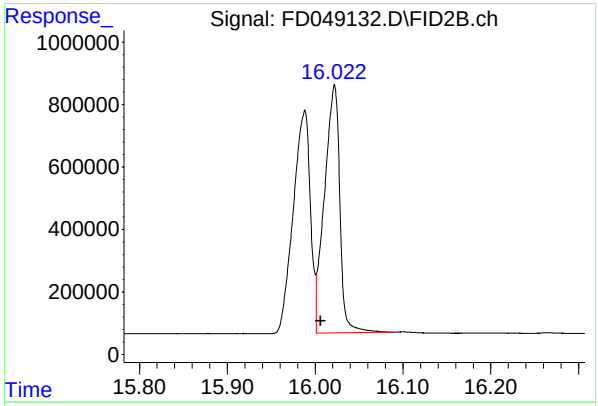
#15 Chrysene (C27.41)

R.T.: 14.480 min
Delta R.T.: 0.010 min
Response: 9454131
Conc: 58.47 ug/ml



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

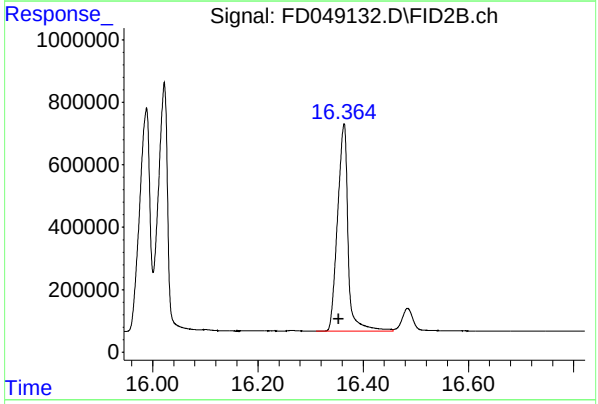
R.T.: 15.988 min
Delta R.T.: 0.013 min
Response: 9628743
Conc: 69.98 ug/ml



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

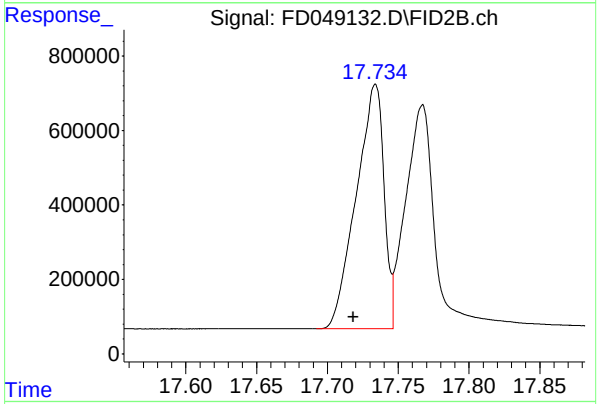
R.T.: 16.022 min
Delta R.T.: 0.016 min
Response: 9681524
Conc: 61.30 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166923BSD



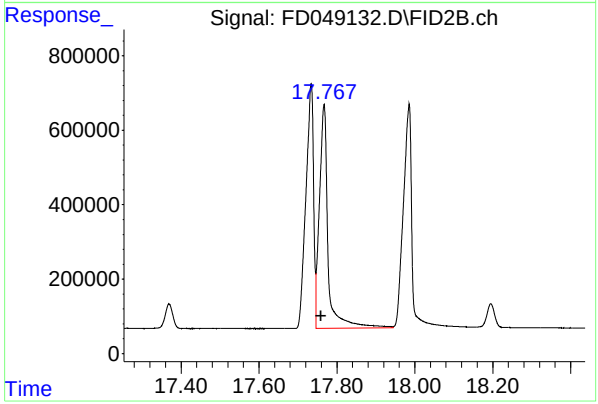
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.364 min
Delta R.T.: 0.010 min
Response: 9238467
Conc: 68.06 ug/ml



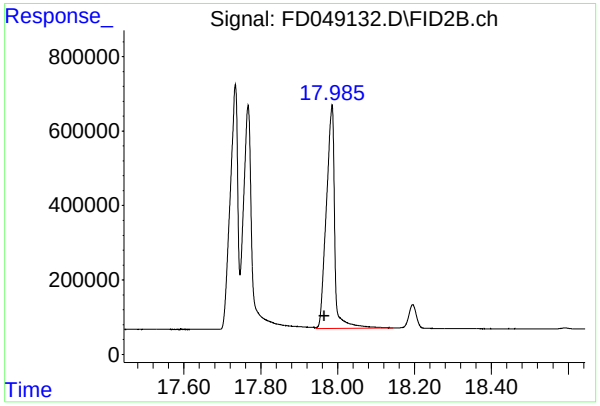
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.734 min
Delta R.T.: 0.016 min
Response: 8949996
Conc: 81.90 ug/ml



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

R.T.: 17.767 min
Delta R.T.: 0.008 min
Response: 9240484
Conc: 59.56 ug/ml



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

R.T.: 17.985 min
Delta R.T.: 0.019 mi
Response: 9127178
Conc: 62.97 ug/m

Instrument :
FID_D
ClientSampleId :
PB166923BSD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049132.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 12:13
Sample : PB166923BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.177	4.160	4.254	VV	833763	7363423	71.00%	3.859%
2	5.693	5.614	5.796	BV	854382	8299718	80.02%	4.350%
3	6.739	6.710	6.882	VV	774369	8179915	78.87%	4.287%
4	7.352	7.328	7.502	VV	850747	8444315	81.42%	4.426%
5	8.006	7.960	8.097	BV	918197	9241947	89.11%	4.844%
6	8.203	8.174	8.272	BV	537561	5539761	53.41%	2.903%
7	8.301	8.272	8.420	VB	960907	9806969	94.56%	5.140%
8	9.079	8.979	9.222	BV	923928	9794107	94.43%	5.133%
9	10.467	10.394	10.515	PV	942889	9953645	95.97%	5.217%
10	10.543	10.515	10.685	VV	852864	10019118	96.60%	5.251%
11	11.237	11.182	11.305	BV	818909	8675284	83.64%	4.547%
12	12.273	12.248	12.427	VB	878971	10371581	100.00%	5.436%
13	12.567	12.525	12.631	BV	861958	10147707	97.84%	5.318%
14	14.437	14.350	14.455	BV	792508	9644699	92.99%	5.055%
15	14.480	14.455	14.507	VV	775232	9454131	91.15%	4.955%
16	15.988	15.930	16.001	BV	716576	9628743	92.84%	5.046%
17	16.022	16.001	16.089	VV	793985	9681524	93.35%	5.074%
18	16.364	16.310	16.457	BV	664714	9238467	89.07%	4.842%
19	17.734	17.692	17.746	BV	656393	8949996	86.29%	4.691%
20	17.767	17.746	17.944	VV	600565	9240484	89.09%	4.843%
21	17.985	17.944	18.144	VV	600259	9127178	88.00%	4.784%
			Sum of corrected areas:			190802711		

Aromatic EPH 021125.M Sat Mar 01 03:55:20 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FC068334.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		9.70		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		9.05		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		14.6		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		19.4		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		34.1		2.55	2.84	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		30.6		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FC068334.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	3.104	6.369	14464917	102.562	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13068443	95.631	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20310392	154.298	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25151936	205.002	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37089980	360.634	600	ug/ml
Aliphatic EPH	3.104	21.565	110085668	918.128		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.839	12.839	3447568	30.65		ug/ml
Aliphatic C9-C28	3.104	16.761	72995688	557.493	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.839	3447568	30.652 ug/ml
Spiked Amount	50.000		Recovery =	61.30%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3952679	28.098 ug/ml
2) T	n-Decane (C10)	4.262	4756204	33.572 ug/ml
4) T	n-Dodecane (C12)	6.270	5217892	37.070 ug/ml
6) T	n-Tetradecane (C14)	8.059	5826405	42.733 ug/ml
7) T	n-Hexadecane (C16)	9.655	6354609	46.396 ug/ml
8) T	n-Octadecane (C18)	11.093	6605667	48.302 ug/ml
10) T	n-Eicosane (C20)	12.400	6724652	51.614 ug/ml
11) T	n-Heneicosane (C21)	13.010	6406807	50.113 ug/ml
13) T	n-Docosane (C22)	13.596	6355786	50.432 ug/ml
14) T	n-Tetracosane (C24)	14.697	6236779	50.144 ug/ml
15) T	n-Hexacosane (C26)	15.715	6107881	50.232 ug/ml
16) T	n-Octacosane (C28)	16.664	5953830	50.130 ug/ml
17) T	n-Tricontane (C30)	17.551	5974819	49.639 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5932634	51.114 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5900054	54.600 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5653625	58.789 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5491943	61.091 ug/ml
22) T	n-Tetracontane (C40)	21.472	5316432	61.447 ug/ml

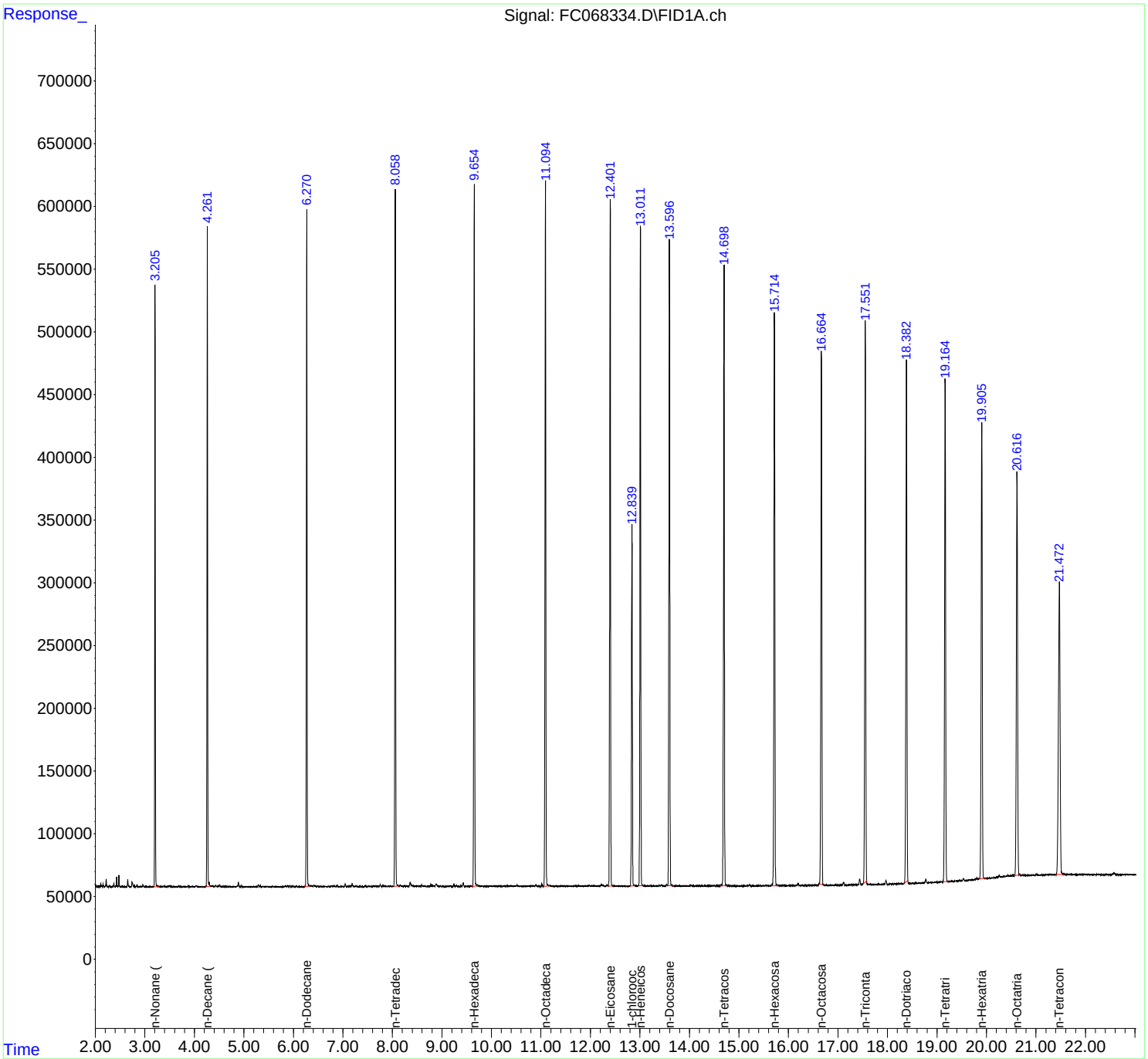
(f)=RT Delta > 1/2 Window (m)=manual int.

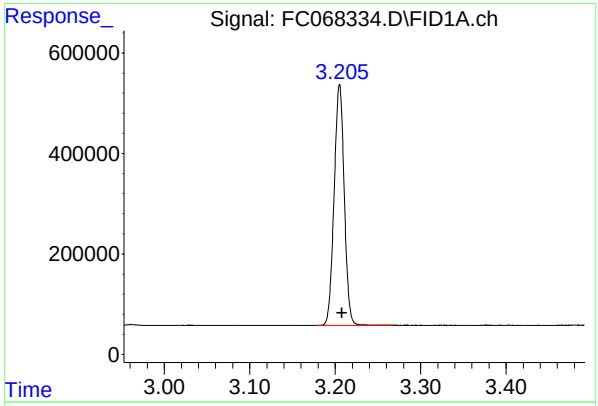
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 05 05:24:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

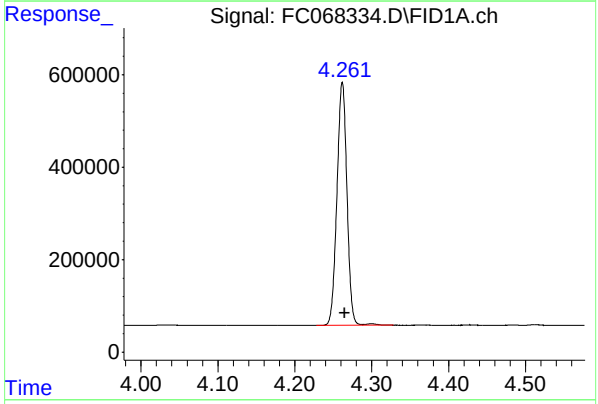




#1 n-Nonane (C9)

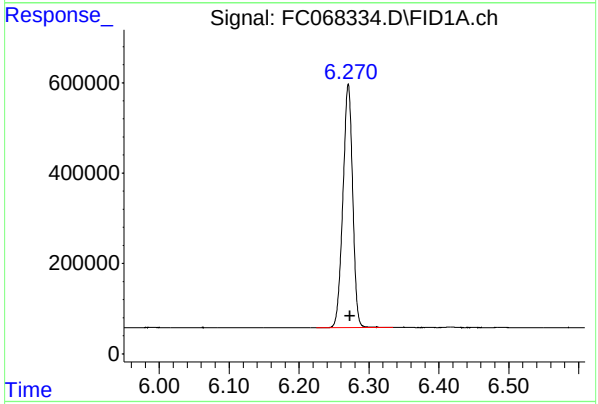
R.T.: 3.205 min
Delta R.T.: -0.003 min
Response: 3952679
Conc: 28.10 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS



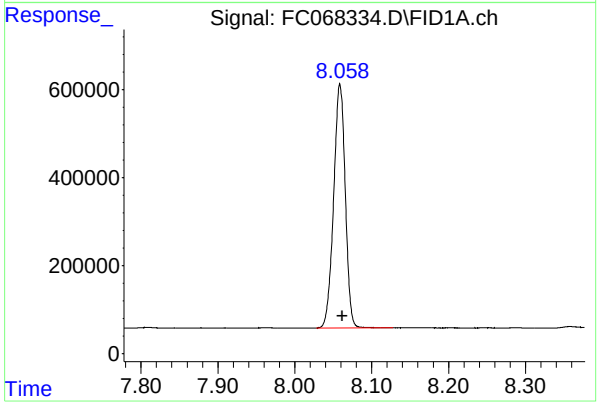
#2 n-Decane (C10)

R.T.: 4.262 min
Delta R.T.: -0.003 min
Response: 4756204
Conc: 33.57 ug/ml



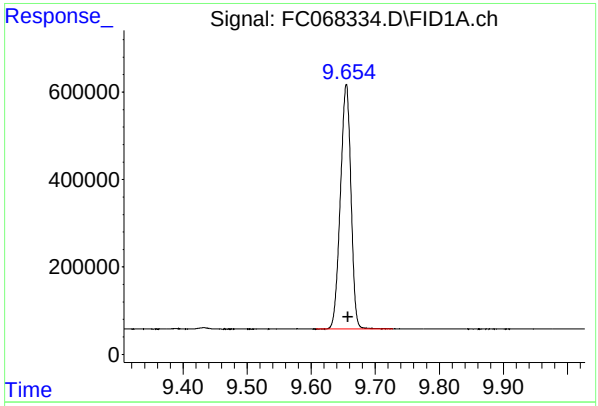
#4 n-Dodecane (C12)

R.T.: 6.270 min
Delta R.T.: -0.003 min
Response: 5217892
Conc: 37.07 ug/ml



#6 n-Tetradecane (C14)

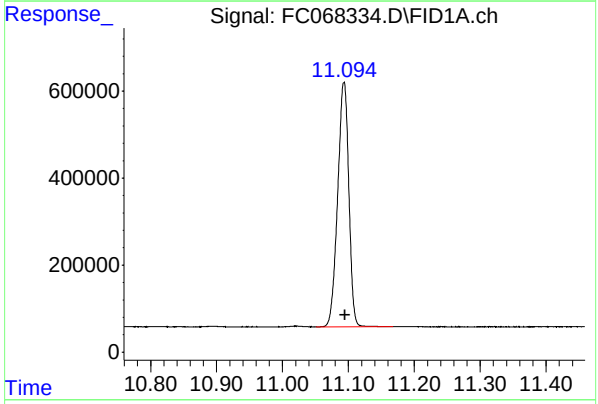
R.T.: 8.059 min
Delta R.T.: -0.003 min
Response: 5826405
Conc: 42.73 ug/ml



#7 n-Hexadecane (C16)

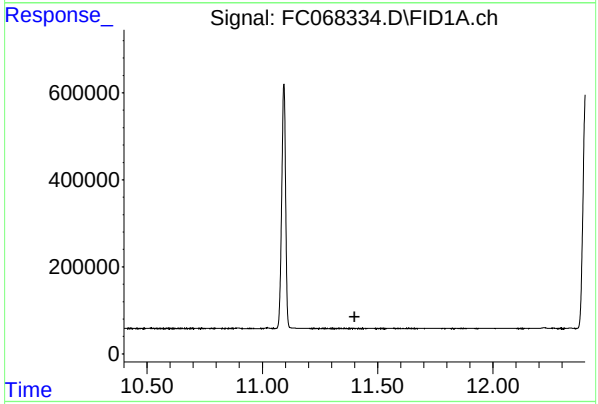
R.T.: 9.655 min
Delta R.T.: -0.003 min
Response: 6354609
Conc: 46.40 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS



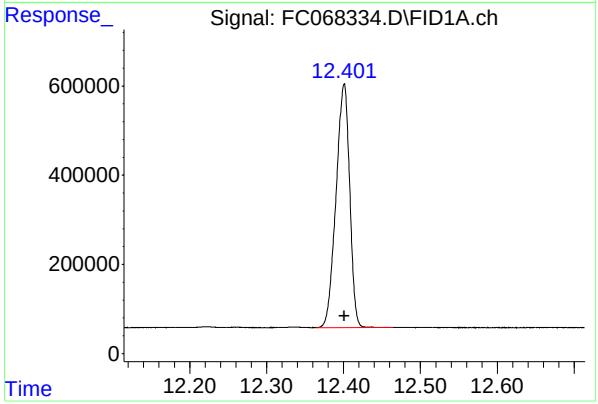
#8 n-Octadecane (C18)

R.T.: 11.093 min
Delta R.T.: -0.001 min
Response: 6605667
Conc: 48.30 ug/ml



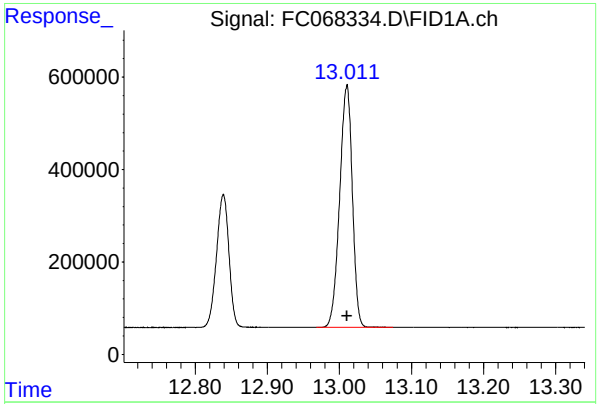
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

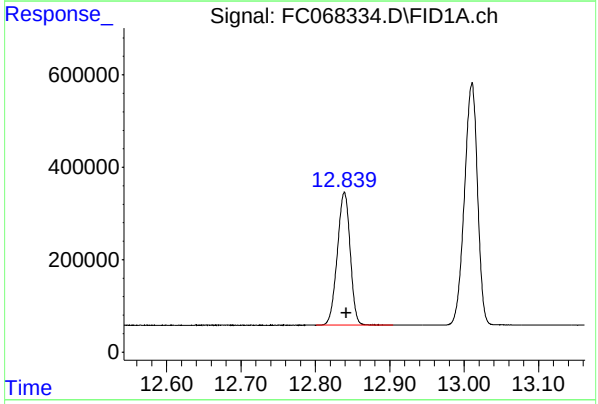
R.T.: 12.400 min
Delta R.T.: 0.000 min
Response: 6724652
Conc: 51.61 ug/ml



#11 n-Heneicosane (C21)

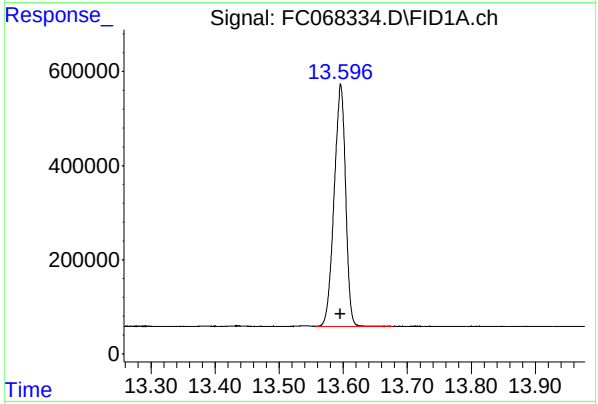
R.T.: 13.010 min
Delta R.T.: 0.000 min
Response: 6406807
Conc: 50.11 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS



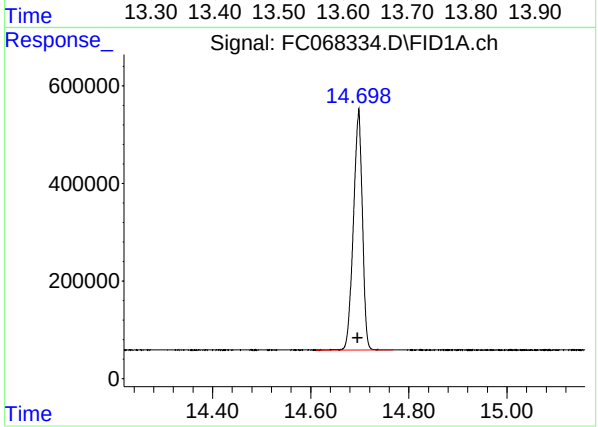
#12 1-chlorooctadecane (SURR)

R.T.: 12.839 min
Delta R.T.: -0.003 min
Response: 3447568
Conc: 30.65 ug/ml



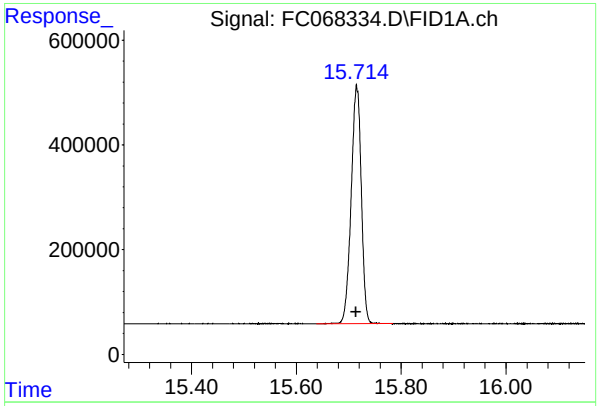
#13 n-Docosane (C22)

R.T.: 13.596 min
Delta R.T.: 0.000 min
Response: 6355786
Conc: 50.43 ug/ml



#14 n-Tetracosane (C24)

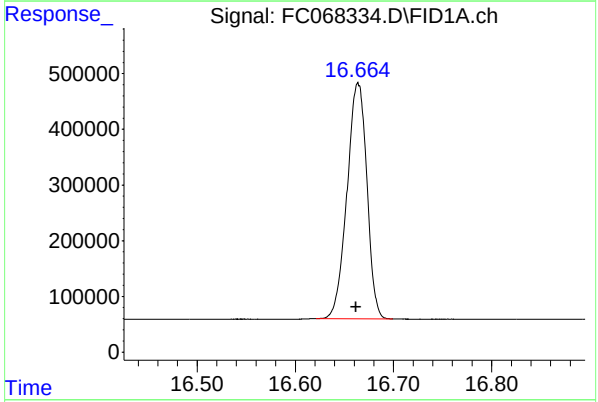
R.T.: 14.697 min
Delta R.T.: 0.001 min
Response: 6236779
Conc: 50.14 ug/ml



#15 n-Hexacosane (C26)

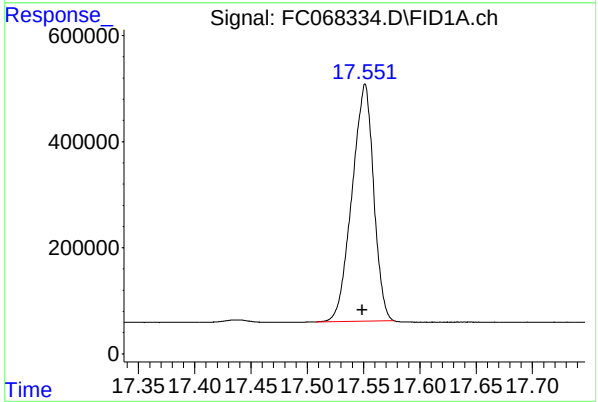
R.T.: 15.715 min
Delta R.T.: 0.001 min
Response: 6107881
Conc: 50.23 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS



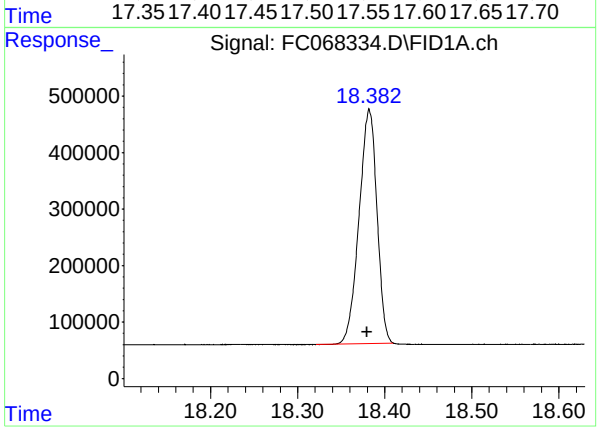
#16 n-Octacosane (C28)

R.T.: 16.664 min
Delta R.T.: 0.002 min
Response: 5953830
Conc: 50.13 ug/ml



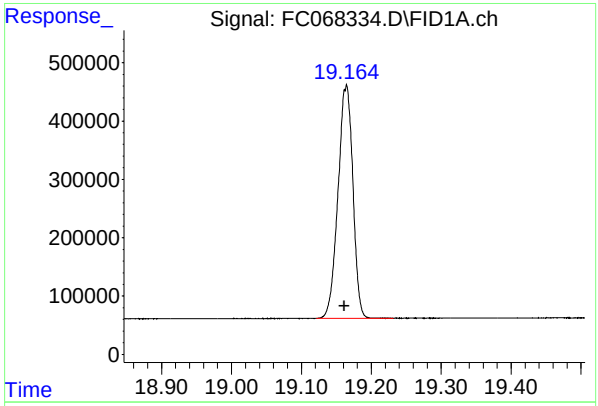
#17 n-Tricontane (C30)

R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 5974819
Conc: 49.64 ug/ml



#18 n-Dotriacontane (C32)

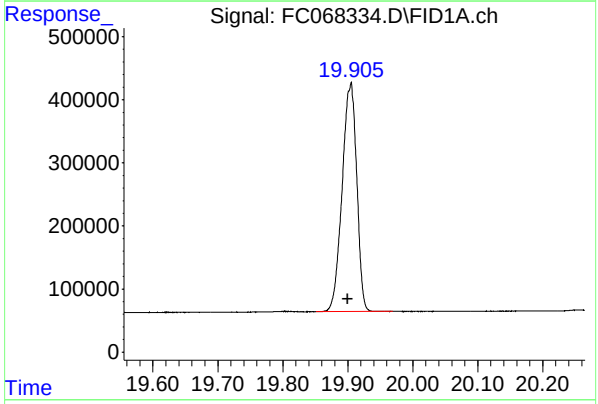
R.T.: 18.382 min
Delta R.T.: 0.002 min
Response: 5932634
Conc: 51.11 ug/ml



#19 n-Tetratriacontane (C34)

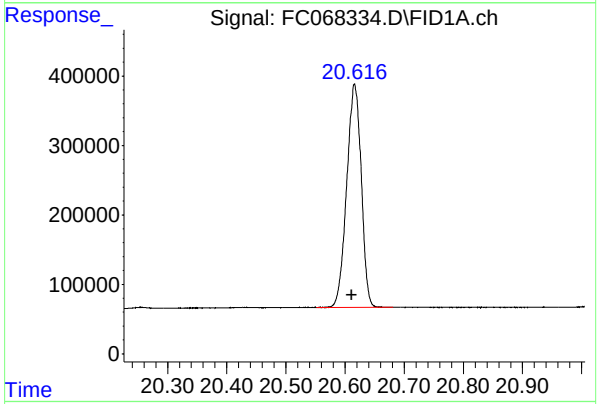
R.T.: 19.164 min
Delta R.T.: 0.003 min
Response: 5900054
Conc: 54.60 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS



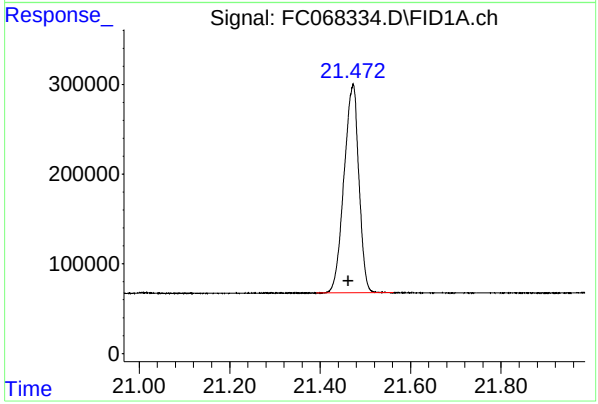
#20 n-Hexatriacontane (C36)

R.T.: 19.904 min
Delta R.T.: 0.004 min
Response: 5653625
Conc: 58.79 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.616 min
Delta R.T.: 0.005 min
Response: 5491943
Conc: 61.09 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.472 min
Delta R.T.: 0.010 min
Response: 5316432
Conc: 61.45 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068334.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.373	2.304	2.402	BV	2444	20177	0.30%	0.018%
2	2.430	2.402	2.454	PV	7767	67001	0.99%	0.059%
3	2.475	2.454	2.535	VV	9285	76863	1.14%	0.067%
4	2.556	2.535	2.578	VV	360	5078	0.08%	0.004%
5	2.588	2.578	2.626	VV	234	3484	0.05%	0.003%
6	2.654	2.626	2.721	PV	5970	55320	0.82%	0.048%
7	2.743	2.721	2.771	VV	3718	52504	0.78%	0.046%
8	2.786	2.771	2.820	VV	1524	17198	0.25%	0.015%
9	2.839	2.820	2.900	VV	1638	20171	0.30%	0.018%
10	2.917	2.900	2.943	VV	340	4970	0.07%	0.004%
11	2.961	2.943	2.993	VV	1652	15512	0.23%	0.014%
12	3.031	2.993	3.044	VV	298	5350	0.08%	0.005%
13	3.054	3.044	3.071	VV	147	1723	0.03%	0.002%
14	3.095	3.071	3.122	VV	221	3824	0.06%	0.003%
15	3.205	3.122	3.314	VV	476570	3974917	58.90%	3.482%
16	3.324	3.314	3.364	VV	381	7654	0.11%	0.007%
17	3.378	3.364	3.424	VV	331	9181	0.14%	0.008%
18	3.437	3.424	3.454	VV	241	3497	0.05%	0.003%
19	3.501	3.454	3.553	VV	659	21613	0.32%	0.019%
20	3.568	3.553	3.604	VV	260	4949	0.07%	0.004%
21	3.611	3.604	3.655	VV	176	3352	0.05%	0.003%
22	3.692	3.655	3.752	VV	421	11227	0.17%	0.010%
23	3.775	3.752	3.827	VV	350	7232	0.11%	0.006%
24	3.865	3.827	3.878	VV	588	8521	0.13%	0.007%
25	3.893	3.878	3.948	VV	975	13495	0.20%	0.012%
26	3.961	3.948	3.993	VV	284	4929	0.07%	0.004%
27	4.037	3.993	4.145	VV	944	27567	0.41%	0.024%
28	4.178	4.145	4.204	VV	296	6175	0.09%	0.005%
29	4.211	4.204	4.231	VV	230	2907	0.04%	0.003%
30	4.262	4.231	4.289	VV	524353	4734902	70.17%	4.148%
31	4.300	4.289	4.347	VV	3746	50768	0.75%	0.044%
32	4.364	4.347	4.390	VV	730	14752	0.22%	0.013%
33	4.428	4.390	4.448	VV	1240	21435	0.32%	0.019%
34	4.459	4.448	4.467	VV	425	4469	0.07%	0.004%
35	4.483	4.467	4.497	VV	955	11206	0.17%	0.010%
36	4.513	4.497	4.578	VV	1798	24455	0.36%	0.021%

rteres

37	4.630	4.578	4.689	VV	247	12114	0.18%	0.011%
38	4.724	4.689	4.780	VV	273	7087	0.11%	0.006%
39	4.810	4.780	4.844	VV	250	4638	0.07%	0.004%
40	4.890	4.844	4.921	VV	3471	45773	0.68%	0.040%
41	4.946	4.921	4.962	VV	719	8954	0.13%	0.008%
42	4.973	4.962	5.018	VV	275	4329	0.06%	0.004%
43	5.081	5.018	5.101	PV	175	4452	0.07%	0.004%
44	5.115	5.101	5.153	VV	129	3282	0.05%	0.003%
45	5.163	5.153	5.223	VV	189	3688	0.05%	0.003%
46	5.258	5.223	5.269	VV	162	2711	0.04%	0.002%
47	5.292	5.269	5.312	VV	1773	19244	0.29%	0.017%
48	5.332	5.312	5.357	VV	1339	15550	0.23%	0.014%
49	5.387	5.357	5.434	VV	309	5489	0.08%	0.005%
50	5.469	5.434	5.495	VV	356	6323	0.09%	0.006%
51	5.508	5.495	5.529	VV	125	1637	0.02%	0.001%
52	5.539	5.529	5.553	VV	148	1273	0.02%	0.001%
53	5.582	5.553	5.613	VV	280	5783	0.09%	0.005%
54	5.640	5.613	5.684	VV	173	4197	0.06%	0.004%
55	5.692	5.684	5.724	VV	99	1301	0.02%	0.001%
56	5.742	5.724	5.763	PV	204	2404	0.04%	0.002%
57	5.788	5.763	5.813	VV	186	3529	0.05%	0.003%
58	5.838	5.813	5.869	VV	890	16772	0.25%	0.015%
59	5.886	5.869	5.908	VV	542	8475	0.13%	0.007%
60	5.928	5.908	5.971	VV	1047	14951	0.22%	0.013%
61	5.991	5.971	6.029	VV	703	11596	0.17%	0.010%
62	6.064	6.029	6.086	VV	368	7588	0.11%	0.007%
63	6.115	6.086	6.132	VV	274	4178	0.06%	0.004%
64	6.164	6.132	6.228	VV	275	9391	0.14%	0.008%
65	6.270	6.228	6.334	VV	539912	5241953	77.68%	4.592%
66	6.351	6.334	6.374	VV	1068	17052	0.25%	0.015%
67	6.386	6.374	6.398	VV	676	7625	0.11%	0.007%
68	6.417	6.398	6.437	VV	1487	20059	0.30%	0.018%
69	6.450	6.437	6.471	VV	584	8181	0.12%	0.007%
70	6.489	6.471	6.538	VV	752	13429	0.20%	0.012%
71	6.552	6.538	6.568	VV	277	4003	0.06%	0.004%
72	6.587	6.568	6.611	VV	313	5879	0.09%	0.005%
73	6.622	6.611	6.641	VV	243	3682	0.05%	0.003%
74	6.655	6.641	6.684	VV	227	4481	0.07%	0.004%
75	6.708	6.684	6.736	VV	664	9075	0.13%	0.008%
76	6.762	6.736	6.796	VV	830	16423	0.24%	0.014%
77	6.824	6.796	6.854	VV	741	16164	0.24%	0.014%
78	6.887	6.854	6.914	VV	1061	19526	0.29%	0.017%
79	6.925	6.914	6.947	VV	306	4357	0.06%	0.004%
80	6.988	6.947	7.008	VV	329	7764	0.12%	0.007%
81	7.048	7.008	7.095	VV	2381	30341	0.45%	0.027%
82	7.108	7.095	7.138	VV	366	7191	0.11%	0.006%
83	7.155	7.138	7.167	VV	499	5849	0.09%	0.005%
84	7.188	7.167	7.213	VV	2579	30661	0.45%	0.027%
85	7.221	7.213	7.233	VV	260	2957	0.04%	0.003%
86	7.248	7.233	7.266	VV	418	6511	0.10%	0.006%
87	7.279	7.266	7.333	VV	619	10000	0.15%	0.009%
88	7.355	7.333	7.391	VV	242	6015	0.09%	0.005%
89	7.395	7.391	7.414	VV	190	1628	0.02%	0.001%

rteres

90	7.448	7.414	7.478	VV	1037	13385	0.20%	0.012%
91	7.525	7.478	7.574	VV	321	11619	0.17%	0.010%
92	7.611	7.574	7.627	VV	353	8205	0.12%	0.007%
93	7.648	7.627	7.688	VV	402	10387	0.15%	0.009%
94	7.709	7.688	7.734	VV	486	7961	0.12%	0.007%
95	7.753	7.734	7.778	VV	1583	19335	0.29%	0.017%
96	7.809	7.778	7.834	VV	1594	21359	0.32%	0.019%
97	7.846	7.834	7.864	VV	354	4886	0.07%	0.004%
98	7.879	7.864	7.891	VV	423	4829	0.07%	0.004%
99	7.908	7.891	7.934	VV	361	6444	0.10%	0.006%
100	7.962	7.934	8.004	VV	856	13217	0.20%	0.012%
101	8.059	8.004	8.134	VV	554409	5855976	86.78%	5.130%
102	8.154	8.134	8.190	VV	891	22636	0.34%	0.020%
103	8.203	8.190	8.222	VV	574	8596	0.13%	0.008%
104	8.250	8.222	8.269	VV	624	10991	0.16%	0.010%
105	8.287	8.269	8.328	VV	613	10178	0.15%	0.009%
106	8.358	8.328	8.438	VV	3538	79437	1.18%	0.070%
107	8.449	8.438	8.464	VV	483	7244	0.11%	0.006%
108	8.474	8.464	8.488	VV	607	6830	0.10%	0.006%
109	8.516	8.488	8.531	VV	612	13038	0.19%	0.011%
110	8.544	8.531	8.558	VV	691	8906	0.13%	0.008%
111	8.592	8.558	8.631	VV	1119	27569	0.41%	0.024%
112	8.654	8.631	8.687	VV	452	9010	0.13%	0.008%
113	8.707	8.687	8.725	VV	426	6259	0.09%	0.005%
114	8.745	8.725	8.753	VV	313	3931	0.06%	0.003%
115	8.776	8.753	8.796	VV	1501	20657	0.31%	0.018%
116	8.812	8.796	8.825	VV	888	11876	0.18%	0.010%
117	8.833	8.825	8.854	VV	679	10088	0.15%	0.009%
118	8.887	8.854	8.943	VV	2096	46575	0.69%	0.041%
119	8.962	8.943	8.989	VV	596	8314	0.12%	0.007%
120	9.011	8.989	9.037	PV	415	5547	0.08%	0.005%
121	9.131	9.037	9.145	VV	387	13254	0.20%	0.012%
122	9.174	9.145	9.221	VV	781	15428	0.23%	0.014%
123	9.245	9.221	9.273	VV	1372	22829	0.34%	0.020%
124	9.294	9.273	9.322	VV	889	12552	0.19%	0.011%
125	9.334	9.322	9.354	VV	263	3002	0.04%	0.003%
126	9.388	9.354	9.408	VV	903	13561	0.20%	0.012%
127	9.432	9.408	9.473	VV	3048	36278	0.54%	0.032%
128	9.490	9.473	9.508	PV	253	2752	0.04%	0.002%
129	9.522	9.508	9.535	VV	181	2184	0.03%	0.002%
130	9.576	9.535	9.609	VV	648	15373	0.23%	0.013%
131	9.655	9.609	9.766	VV	558718	6394144	94.75%	5.602%
132	9.773	9.766	9.864	VV	389	14407	0.21%	0.013%
133	9.931	9.864	9.948	VV	308	7356	0.11%	0.006%
134	9.969	9.948	9.990	VV	302	6115	0.09%	0.005%
135	10.045	9.990	10.064	VV	472	12862	0.19%	0.011%
136	10.081	10.064	10.102	VV	363	6588	0.10%	0.006%
137	10.129	10.102	10.151	VV	338	6987	0.10%	0.006%
138	10.159	10.151	10.180	VV	290	3147	0.05%	0.003%
139	10.191	10.180	10.197	VV	128	1121	0.02%	0.001%
140	10.205	10.197	10.211	VV	152	1028	0.02%	0.001%
141	10.250	10.211	10.265	VV	389	7571	0.11%	0.007%

rteres

142	10.275	10.265	10.303	VV	376	6423	0.10%	0.006%
143	10.322	10.303	10.348	VV	577	10901	0.16%	0.010%
144	10.391	10.348	10.423	VV	743	18152	0.27%	0.016%
145	10.443	10.423	10.458	VV	366	5798	0.09%	0.005%
146	10.476	10.458	10.488	VV	430	6016	0.09%	0.005%
147	10.515	10.488	10.548	VV	1041	19254	0.29%	0.017%
148	10.604	10.584	10.658	VV	273	7646	0.11%	0.007%
149	10.675	10.658	10.683	VV	257	2854	0.04%	0.003%
150	10.714	10.683	10.741	VV	436	9433	0.14%	0.008%
151	10.761	10.741	10.794	VV	411	9576	0.14%	0.008%
152	10.811	10.794	10.831	VV	557	8515	0.13%	0.007%
153	10.844	10.831	10.862	VV	342	3978	0.06%	0.003%
154	10.894	10.862	10.940	VV	1481	20511	0.30%	0.018%
155	10.947	10.940	10.978	VV	104	1539	0.02%	0.001%
156	11.021	10.978	11.054	VV	1735	24417	0.36%	0.021%
157	11.093	11.054	11.168	VV	565923	6625320	98.18%	5.804%
158	11.182	11.168	11.231	VV	720	14671	0.22%	0.013%
159	11.241	11.231	11.261	VV	192	2557	0.04%	0.002%
160	11.273	11.261	11.288	VV	173	1837	0.03%	0.002%
161	11.318	11.288	11.348	VV	209	5178	0.08%	0.005%
162	11.354	11.348	11.368	VV	85	1004	0.01%	0.001%
163	11.398	11.368	11.435	VV	297	9104	0.13%	0.008%
164	11.450	11.435	11.460	VV	333	3793	0.06%	0.003%
165	11.477	11.460	11.519	VV	415	10036	0.15%	0.009%
166	11.556	11.519	11.602	VV	414	11078	0.16%	0.010%
167	11.609	11.602	11.618	VV	109	953	0.01%	0.001%
168	11.752	11.618	11.781	VV	588	31644	0.47%	0.028%
169	11.800	11.781	11.831	VV	366	7504	0.11%	0.007%
170	11.848	11.831	11.864	VV	282	4549	0.07%	0.004%
171	11.893	11.864	11.938	VV	424	11070	0.16%	0.010%
172	11.973	11.938	12.009	VV	753	21641	0.32%	0.019%
173	12.030	12.009	12.052	VV	621	10594	0.16%	0.009%
174	12.070	12.052	12.085	VV	610	9008	0.13%	0.008%
175	12.093	12.085	12.132	VV	338	6661	0.10%	0.006%
176	12.222	12.132	12.245	VV	1915	41265	0.61%	0.036%
177	12.260	12.245	12.302	VV	961	14054	0.21%	0.012%
178	12.336	12.302	12.359	VV	1377	18443	0.27%	0.016%
179	12.400	12.359	12.498	VV	550415	6748141	100.00%	5.912%
180	12.508	12.498	12.628	VV	306	11917	0.18%	0.010%
181	12.653	12.628	12.664	PV	184	2976	0.04%	0.003%
182	12.672	12.664	12.738	VV	191	5818	0.09%	0.005%
183	12.839	12.738	12.931	VV	286432	3481931	51.60%	3.050%
184	12.953	12.931	12.969	VV	428	8655	0.13%	0.008%
185	13.010	12.969	13.178	VV	526070	6448726	95.56%	5.649%
186	13.208	13.178	13.240	VV	376	10702	0.16%	0.009%
187	13.283	13.240	13.324	VV	471	15893	0.24%	0.014%
188	13.347	13.324	13.364	VV	296	5459	0.08%	0.005%
189	13.384	13.364	13.407	VV	696	11042	0.16%	0.010%
190	13.435	13.407	13.484	VV	1046	21956	0.33%	0.019%
191	13.498	13.484	13.513	VV	276	3937	0.06%	0.003%
192	13.539	13.513	13.556	VV	1419	19411	0.29%	0.017%
193	13.596	13.556	13.688	VV	513366	6381544	94.57%	5.590%
194	13.698	13.688	13.705	VV	257	2361	0.03%	0.002%

rteres

195	13.715	13.705	13.750	VV	301	5196	0.08%	0.005%
196	13.769	13.750	13.791	VV	195	3768	0.06%	0.003%
197	13.806	13.791	13.833	VV	207	4647	0.07%	0.004%
198	13.847	13.833	13.861	VV	198	2753	0.04%	0.002%
199	13.865	13.861	13.908	VV	163	3524	0.05%	0.003%
200	13.930	13.908	13.969	VV	201	4815	0.07%	0.004%
201	13.977	13.969	13.987	VV	121	1041	0.02%	0.001%
202	14.030	13.987	14.108	VV	938	23520	0.35%	0.021%
203	14.119	14.108	14.130	VV	191	1931	0.03%	0.002%
204	14.153	14.130	14.198	VV	516	10405	0.15%	0.009%
205	14.297	14.198	14.368	VV	343	24148	0.36%	0.021%
206	14.397	14.368	14.424	VV	347	8382	0.12%	0.007%
207	14.462	14.424	14.489	VV	351	9124	0.14%	0.008%
208	14.504	14.489	14.521	VV	310	4445	0.07%	0.004%
209	14.545	14.521	14.574	VV	400	7327	0.11%	0.006%
210	14.594	14.574	14.611	VV	242	4170	0.06%	0.004%
211	14.648	14.611	14.657	VV	1188	15313	0.23%	0.013%
212	14.697	14.657	14.824	VV	489965	6246308	92.56%	5.472%
213	14.833	14.824	14.849	VV	140	1753	0.03%	0.002%
214	14.862	14.849	14.922	VV	195	6292	0.09%	0.006%
215	14.930	14.922	14.994	VV	168	4066	0.06%	0.004%
216	15.001	14.994	15.014	VV	75	973	0.01%	0.001%
217	15.024	15.014	15.065	VV	107	2267	0.03%	0.002%
218	15.075	15.065	15.090	VV	130	1445	0.02%	0.001%
219	15.122	15.090	15.136	VV	168	3329	0.05%	0.003%
220	15.212	15.136	15.294	VV	1180	24519	0.36%	0.021%
221	15.354	15.294	15.378	PV	196	5498	0.08%	0.005%
222	15.392	15.378	15.402	VV	164	2044	0.03%	0.002%
223	15.411	15.402	15.468	VV	199	5159	0.08%	0.005%
224	15.567	15.468	15.594	VV	304	13518	0.20%	0.012%
225	15.602	15.594	15.638	VV	178	2874	0.04%	0.003%
226	15.715	15.638	15.874	VV	453709	6127369	90.80%	5.368%
227	15.896	15.874	15.998	VV	161	4903	0.07%	0.004%
228	16.034	15.998	16.058	VV	154	2482	0.04%	0.002%
229	16.065	16.058	16.082	VV	94	878	0.01%	0.001%
230	16.105	16.082	16.141	PV	121	2159	0.03%	0.002%
231	16.159	16.141	16.168	VV	188	1698	0.03%	0.001%
232	16.194	16.168	16.254	VV	1679	25892	0.38%	0.023%
233	16.271	16.254	16.306	VV	270	3955	0.06%	0.003%
234	16.317	16.306	16.331	VV	96	762	0.01%	0.001%
235	16.358	16.331	16.374	VV	229	3509	0.05%	0.003%
236	16.390	16.374	16.434	VV	143	5100	0.08%	0.004%
237	16.442	16.434	16.466	VV	174	2263	0.03%	0.002%
238	16.501	16.466	16.518	VV	188	3685	0.05%	0.003%
239	16.545	16.518	16.598	VV	425	13351	0.20%	0.012%
240	16.664	16.598	16.734	VV	424710	6019424	89.20%	5.273%
241	16.745	16.734	16.788	VV	326	7647	0.11%	0.007%
242	16.795	16.788	16.852	VV	202	4824	0.07%	0.004%
243	16.867	16.852	16.916	VV	103	2253	0.03%	0.002%
244	16.922	16.916	16.927	VV	71	350	0.01%	0.000%
245	16.955	16.927	16.978	VV	290	4629	0.07%	0.004%
246	17.010	16.978	17.028	VV	202	3878	0.06%	0.003%

rteres

247	17.041	17.028	17.068	VV	173	2364	0.04%	0.002%
248	17.111	17.068	17.174	VV	2404	39025	0.58%	0.034%
249	17.336	17.174	17.368	PV	275	20619	0.31%	0.018%
250	17.387	17.368	17.401	VV	272	3524	0.05%	0.003%
251	17.437	17.401	17.475	VV	4691	71943	1.07%	0.063%
252	17.551	17.475	17.619	VV	449116	6077453	90.06%	5.324%
253	17.641	17.619	17.662	VV	447	9996	0.15%	0.009%
254	17.672	17.662	17.714	VV	282	6932	0.10%	0.006%
255	17.731	17.714	17.774	VV	226	3697	0.05%	0.003%
256	17.826	17.774	17.890	PV	320	10337	0.15%	0.009%
257	17.898	17.890	17.906	VV	120	576	0.01%	0.001%
258	17.968	17.906	18.008	PV	3186	48425	0.72%	0.042%
259	18.055	18.008	18.076	VV	133	3080	0.05%	0.003%
260	18.234	18.076	18.250	VV	270	7745	0.11%	0.007%
261	18.266	18.250	18.313	VV	261	4615	0.07%	0.004%
262	18.382	18.313	18.454	PV	413964	6001712	88.94%	5.258%
263	18.507	18.454	18.521	VV	208	5479	0.08%	0.005%
264	18.537	18.521	18.564	VV	182	3281	0.05%	0.003%
265	18.592	18.564	18.604	VV	185	2248	0.03%	0.002%
266	18.633	18.604	18.654	VV	166	3189	0.05%	0.003%
267	18.685	18.654	18.696	VV	99	1632	0.02%	0.001%
268	18.775	18.696	18.808	PV	2910	42936	0.64%	0.038%
269	18.834	18.808	18.874	VV	109	2129	0.03%	0.002%
270	18.961	18.874	18.988	PV	189	6398	0.09%	0.006%
271	19.089	18.988	19.101	VV	250	10181	0.15%	0.009%
272	19.164	19.101	19.253	VV	397589	5928806	87.86%	5.194%
273	19.268	19.253	19.291	VV	393	7503	0.11%	0.007%
274	19.321	19.291	19.364	VV	466	15140	0.22%	0.013%
275	19.471	19.364	19.497	VV	555	31946	0.47%	0.028%
276	19.533	19.497	19.581	VV	1963	43177	0.64%	0.038%
277	19.803	19.581	19.834	VV	1730	120045	1.78%	0.105%
278	19.904	19.834	20.010	VV	361310	5791003	85.82%	5.073%
279	20.021	20.010	20.031	VV	1425	16738	0.25%	0.015%
280	20.255	20.031	20.298	VV	3227	276042	4.09%	0.242%
281	20.431	20.298	20.461	VV	2745	223985	3.32%	0.196%
282	20.475	20.461	20.491	VV	2507	44379	0.66%	0.039%
283	20.616	20.491	20.758	VV	321083	5896031	87.37%	5.165%
284	20.774	20.758	20.812	VV	2369	74617	1.11%	0.065%
285	20.819	20.812	20.828	VV	2218	20610	0.31%	0.018%
286	20.937	20.828	20.968	VV	2225	179546	2.66%	0.157%
287	21.009	20.968	21.049	VV	2645	108714	1.61%	0.095%
288	21.056	21.049	21.072	VV	1873	25754	0.38%	0.023%
289	21.285	21.072	21.298	VV	1863	243309	3.61%	0.213%
290	21.308	21.298	21.320	VV	1825	23251	0.34%	0.020%
291	21.352	21.320	21.361	VV	1736	41635	0.62%	0.036%
292	21.370	21.361	21.381	VV	1619	19867	0.29%	0.017%
293	21.388	21.381	21.395	VV	1626	13279	0.20%	0.012%
294	21.472	21.395	21.628	VV	232470	5539153	82.08%	4.853%
295	21.639	21.628	21.651	VV	1287	17310	0.26%	0.015%
296	21.670	21.651	21.690	VV	1291	28053	0.42%	0.025%
297	21.709	21.690	21.737	VV	1183	31107	0.46%	0.027%
298	21.772	21.737	21.878	VV	1053	77020	1.14%	0.067%
299	21.901	21.878	21.915	VV	749	15281	0.23%	0.013%

rteres

300	21.922	21.915	21.931	VV	654	5922	0.09%	0.005%
301	21.973	21.931	22.041	VV	779	39999	0.59%	0.035%
302	22.055	22.041	22.083	VV	455	8809	0.13%	0.008%
303	22.094	22.083	22.104	VV	307	3505	0.05%	0.003%
304	22.113	22.104	22.147	VV	325	5060	0.07%	0.004%
305	22.162	22.147	22.181	VV	91	1266	0.02%	0.001%

Sum of corrected areas: 114150106

Aliphatic EPH 021125.M Sat Mar 01 01:30:47 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FD049142.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.80		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	17.2		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	35.7		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	57.2		2.84	3.78	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.0		40 - 140	118%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.2		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.3		40 - 140	67%	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:	Q1421-02	Acq On:	28 Feb 2025 18:56
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FD049142.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	16467986	103.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	29311275	182.13	300	ug/ml
Aromatic C16-C21	8.397	12.661	57903456	377.567	500	ug/ml
Aromatic C21-C36	12.662	18.073	86473438	604.224	800	ug/ml
Aromatic EPH	4.076	18.073	190156155	1270		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8441841	58.99		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5467908	62.2		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5392113	33.33		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	8441841	58.989 ug/ml
Spiked Amount	50.000		Recovery =	117.98%
6) S	2-Flurobiphenyl (SURR)	8.203	5467908	62.198 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	124.40%
11) S	ortho-Terphenyl (SURR)	11.234	5392113	33.331 ug/ml
Spiked Amount	50.000		Recovery =	66.66%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.176	7161833	44.971 ug/ml
2) T	Naphthalene (C11.7)	5.693	7880512	49.629 ug/ml
3) T	2-Methylnaphthalene (...	6.739	7723846	49.609 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	9044713	55.624 ug/ml
7) T	Acenaphthene (C15.5)	8.300	9678387	58.832 ug/ml
8) T	Flouorene (C16.55)	9.079	9845850	62.454 ug/ml
9) T	Phenanthrene (C19.36)	10.468	10158364	67.407 ug/ml
10) T	Anthracene (C19.43)	10.543	10371977	68.676 ug/ml
12) T	Fluoranthene (C21.85)	12.273	10603708	68.715 ug/ml
13) T	Pyrene (C20.8)	12.566	10302701	66.875 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	9819357	74.734 ug/ml
15) T	Chrysene (C27.41)	14.480	9593320	59.333 ug/ml
16) T	benzo[b]fluoranthene ...	15.988	9767406	70.987 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	9783217	61.942 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	9405556	69.293 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.734	9336608	85.440 ug/ml
20) T	Dibenz[a,h]anthracene...	17.769	9340051	60.204 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.986	9206882	63.517 ug/ml

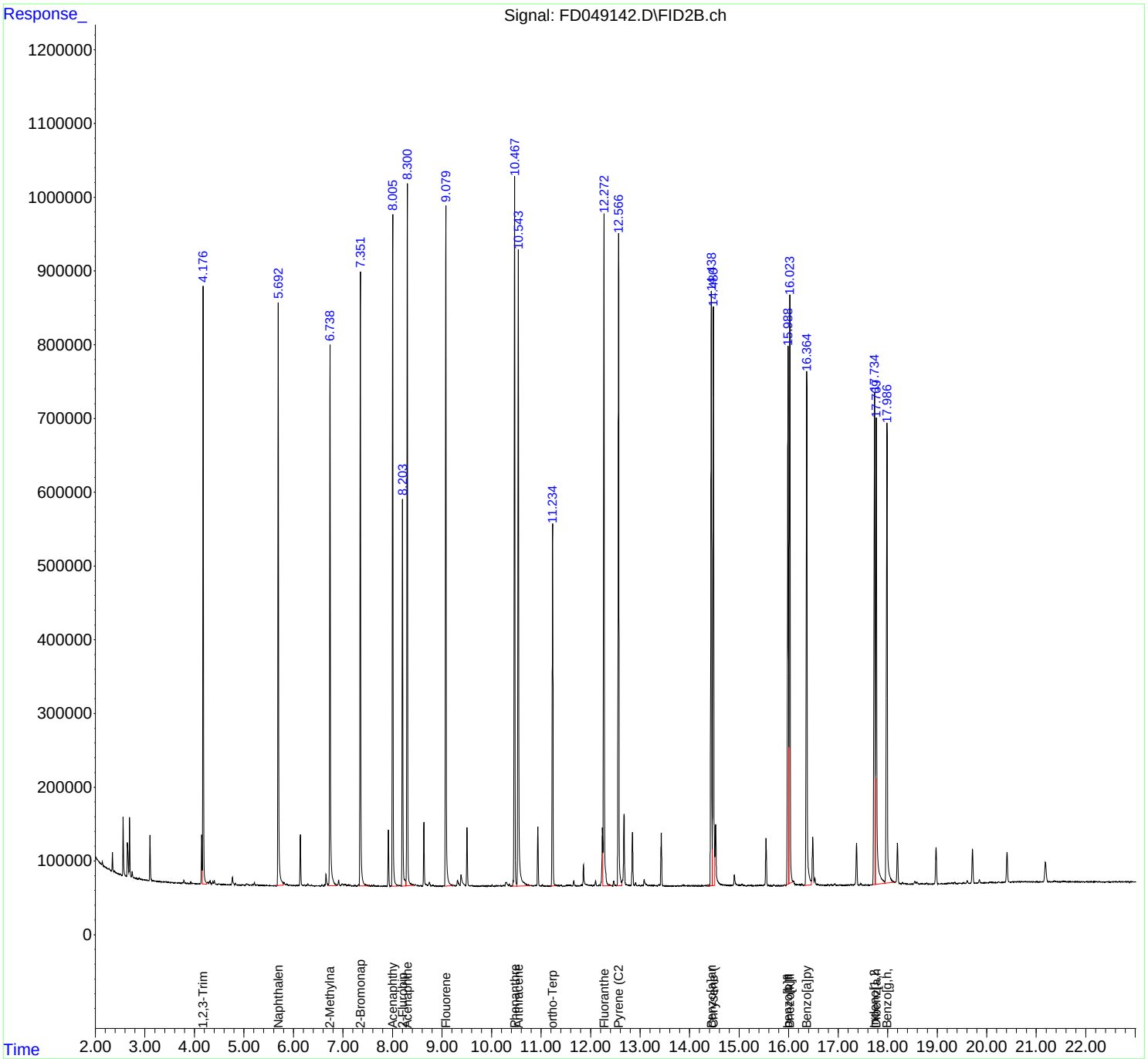
(f)=RT Delta > 1/2 Window (m)=manual int.

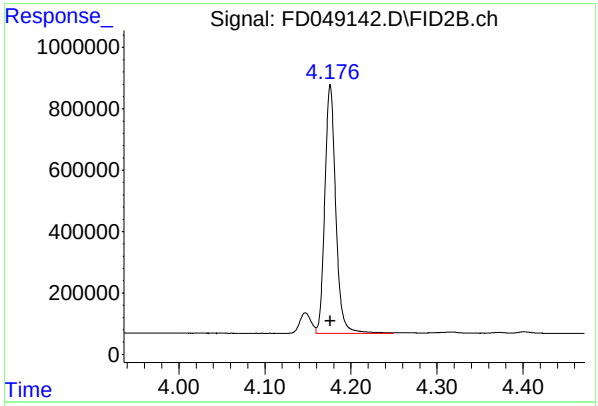
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Operator : YP/AJ
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Mar 01 02:21:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

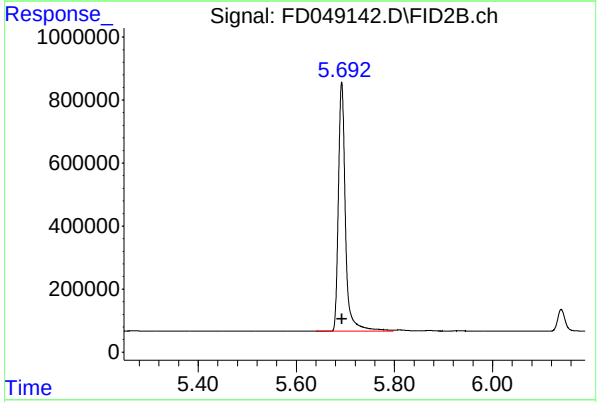




#1 1,2,3-Trimethylbenzene (C10.1)

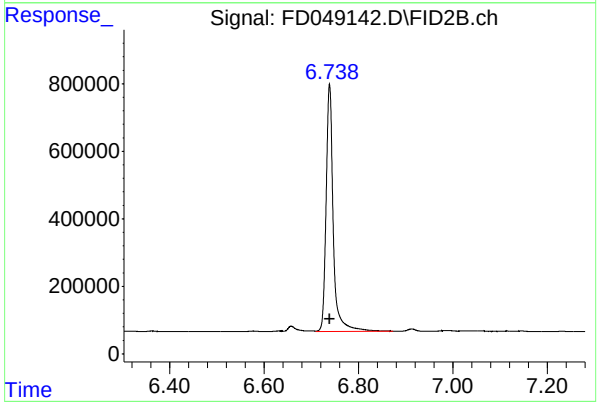
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 7161833
Conc: 44.97 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



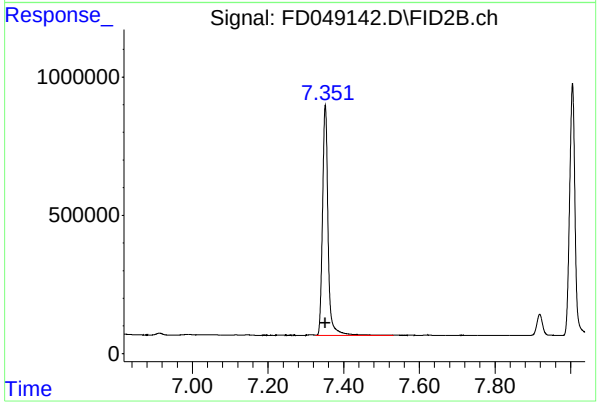
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 7880512
Conc: 49.63 ug/ml



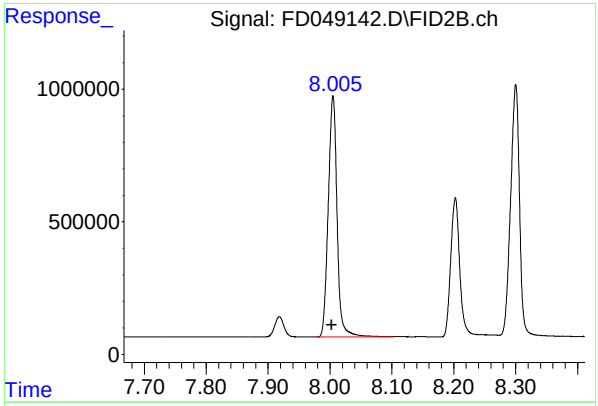
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 7723846
Conc: 49.61 ug/ml



#4 2-Bromonaphthalene (SURR)

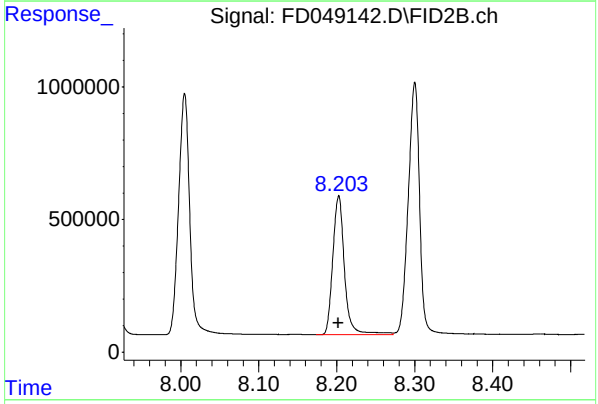
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8441841
Conc: 58.99 ug/ml



#5 Acenaphthylene (C15.06)

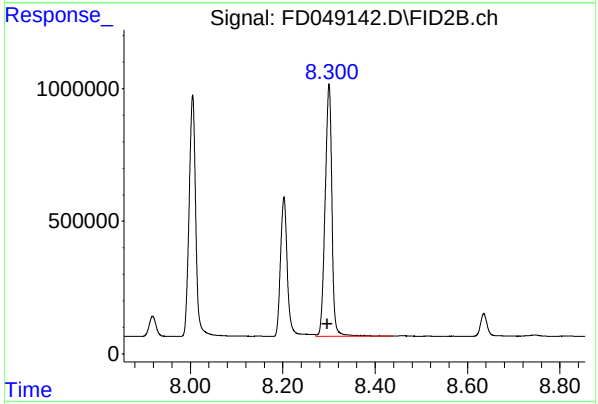
R.T.: 8.005 min
Delta R.T.: 0.002 min
Response: 9044713
Conc: 55.62 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



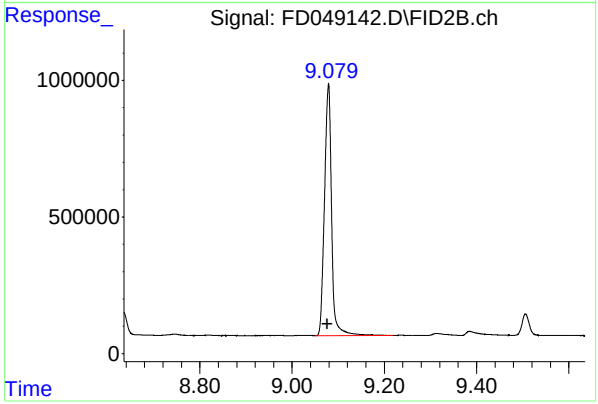
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 5467908
Conc: 62.20 ug/ml



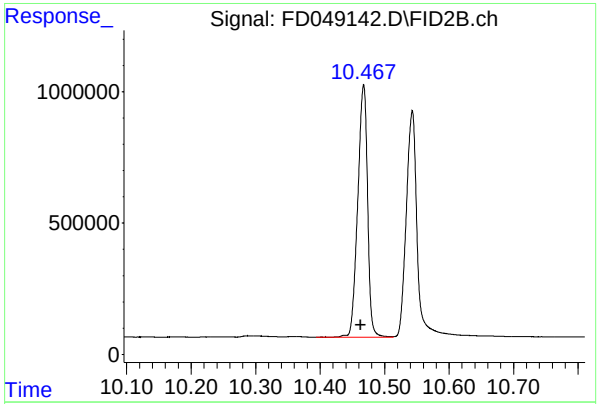
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.004 min
Response: 9678387
Conc: 58.83 ug/ml



#8 Flouorene (C16.55)

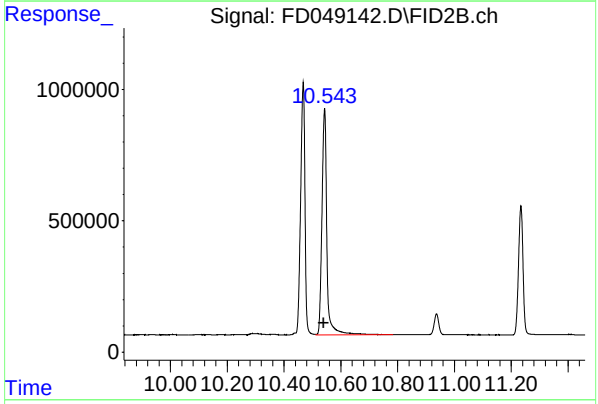
R.T.: 9.079 min
Delta R.T.: 0.003 min
Response: 9845850
Conc: 62.45 ug/ml



#9 Phenanthrene (C19.36)

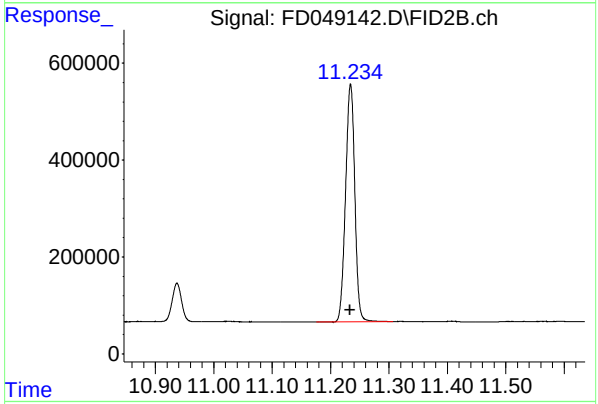
R.T.: 10.468 min
Delta R.T.: 0.005 min
Response: 10158364
Conc: 67.41 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



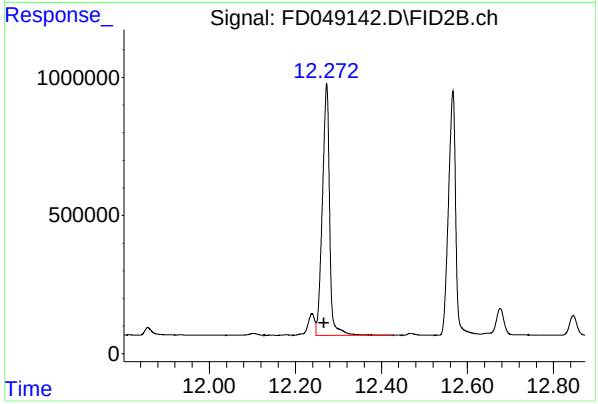
#10 Anthracene (C19.43)

R.T.: 10.543 min
Delta R.T.: 0.003 min
Response: 10371977
Conc: 68.68 ug/ml



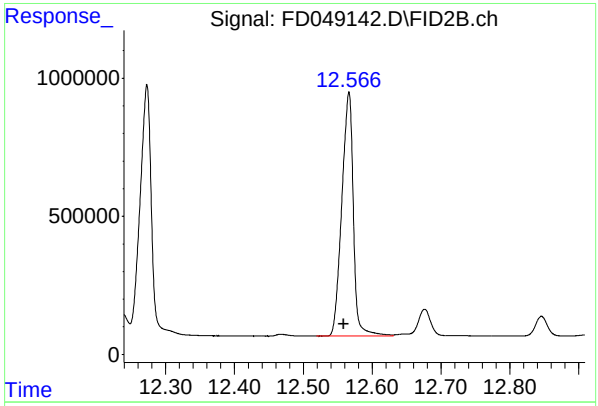
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.001 min
Response: 5392113
Conc: 33.33 ug/ml



#12 Fluoranthene (C21.85)

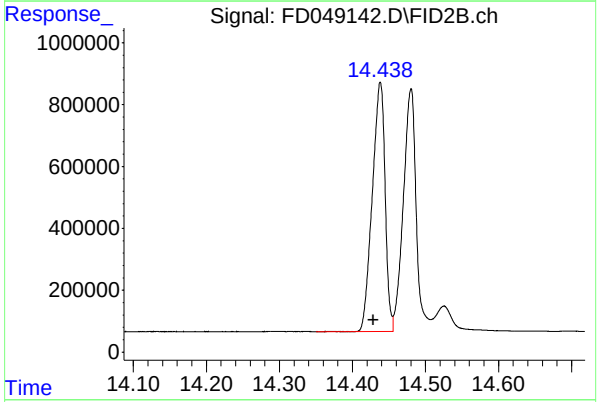
R.T.: 12.273 min
Delta R.T.: 0.006 min
Response: 10603708
Conc: 68.71 ug/ml



#13 Pyrene (C20.8)

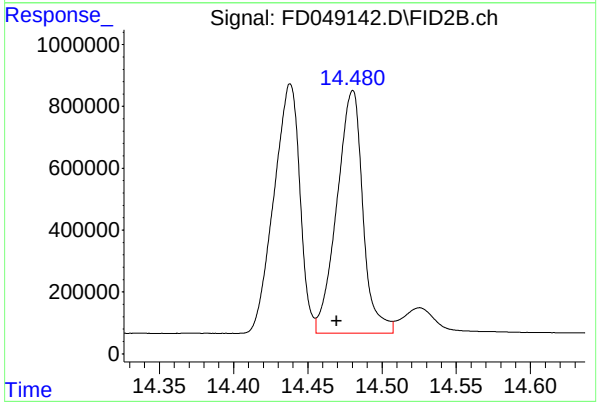
R.T.: 12.566 min
Delta R.T.: 0.008 min
Response: 10302701
Conc: 66.88 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



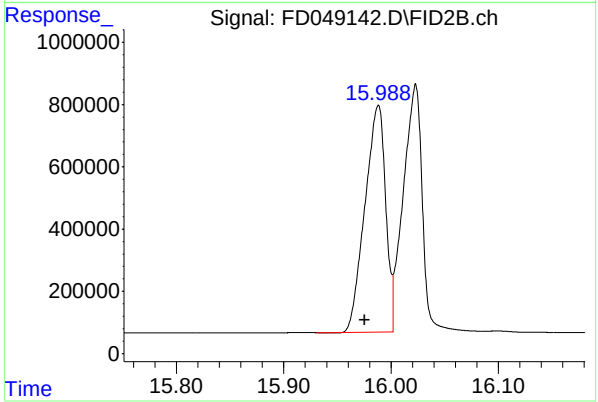
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.438 min
Delta R.T.: 0.010 min
Response: 9819357
Conc: 74.73 ug/ml



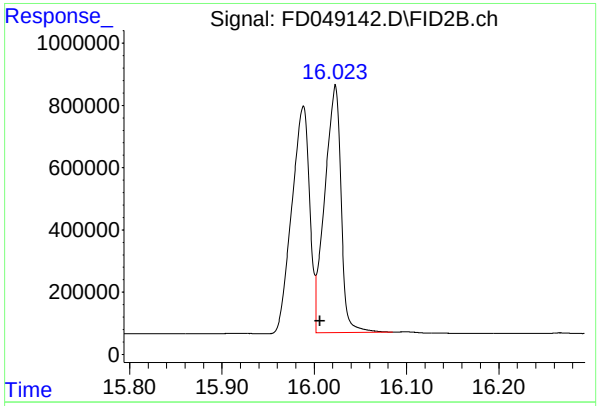
#15 Chrysene (C27.41)

R.T.: 14.480 min
Delta R.T.: 0.011 min
Response: 9593320
Conc: 59.33 ug/ml



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

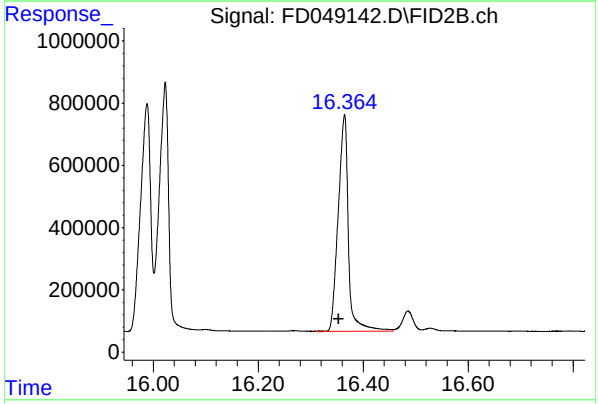
R.T.: 15.988 min
Delta R.T.: 0.013 min
Response: 9767406
Conc: 70.99 ug/ml



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

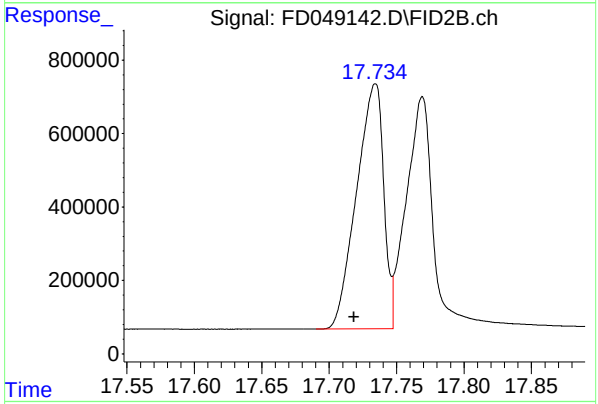
R.T.: 16.023 min
Delta R.T.: 0.017 min
Response: 9783217
Conc: 61.94 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



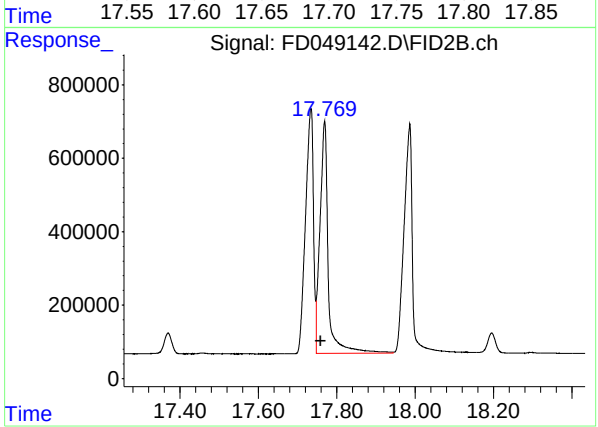
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.364 min
Delta R.T.: 0.011 min
Response: 9405556
Conc: 69.29 ug/ml



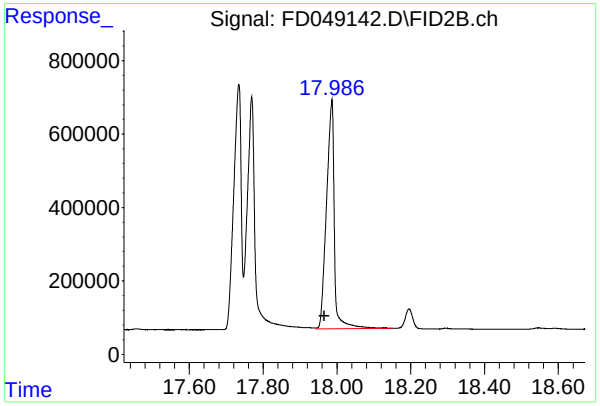
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.734 min
Delta R.T.: 0.016 min
Response: 9336608
Conc: 85.44 ug/ml



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

R.T.: 17.769 min
Delta R.T.: 0.010 min
Response: 9340051
Conc: 60.20 ug/ml



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

R.T.: 17.986 min
Delta R.T.: 0.020 mi
Response: 9206882
Conc: 63.52 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049142.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 18:56
Sample : Q1421-02
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.051	4.042	4.074	BV	200	1949	0.02%	0.001%
2	4.097	4.086	4.101	VV	287	1757	0.02%	0.001%
3	4.106	4.101	4.125	VV	245	2635	0.02%	0.001%
4	4.147	4.125	4.159	VV	66954	606704	5.69%	0.288%
5	4.176	4.159	4.249	VV	809194	7172085	67.25%	3.409%
6	4.264	4.249	4.283	VV	2629	44609	0.42%	0.021%
7	4.316	4.283	4.355	VV	4818	102157	0.96%	0.049%
8	4.372	4.355	4.386	VV	3899	44061	0.41%	0.021%
9	4.402	4.386	4.451	VV	5595	77864	0.73%	0.037%
10	4.461	4.451	4.466	VV	476	3666	0.03%	0.002%
11	4.473	4.466	4.479	VV	549	3174	0.03%	0.002%
12	4.489	4.479	4.505	VV	815	9833	0.09%	0.005%
13	4.515	4.505	4.537	VV	940	10614	0.10%	0.005%
14	4.544	4.537	4.550	VV	343	2200	0.02%	0.001%
15	4.554	4.550	4.570	VV	319	3383	0.03%	0.002%
16	4.582	4.570	4.596	VV	709	7747	0.07%	0.004%
17	4.601	4.596	4.629	VV	492	6562	0.06%	0.003%
18	4.632	4.629	4.644	VV	227	1270	0.01%	0.001%
19	4.689	4.644	4.704	PV	686	10067	0.09%	0.005%
20	4.708	4.704	4.724	VV	421	4004	0.04%	0.002%
21	4.769	4.724	4.814	VV	10740	161309	1.51%	0.077%
22	4.828	4.814	4.879	VV	2485	35628	0.33%	0.017%
23	4.884	4.879	4.893	VV	296	1516	0.01%	0.001%
24	4.902	4.893	4.918	VV	372	3335	0.03%	0.002%
25	4.933	4.918	4.947	VV	401	4801	0.05%	0.002%
26	4.966	4.947	5.015	VV	658	12165	0.11%	0.006%
27	5.048	5.015	5.110	VV	1751	54701	0.51%	0.026%
28	5.118	5.110	5.124	VV	639	5121	0.05%	0.002%
29	5.137	5.124	5.159	VV	830	11050	0.10%	0.005%
30	5.178	5.159	5.195	VV	1661	23212	0.22%	0.011%
31	5.211	5.195	5.254	VV	3925	52356	0.49%	0.025%
32	5.270	5.254	5.324	VV	1122	20499	0.19%	0.010%
33	5.337	5.324	5.349	VV	519	6461	0.06%	0.003%
34	5.353	5.349	5.376	VV	487	4742	0.04%	0.002%
35	5.383	5.376	5.392	VV	292	1658	0.02%	0.001%
36	5.416	5.407	5.422	VV	300	1542	0.01%	0.001%

rteres

37	5.459	5.442	5.504	VV	623	9027	0.08%	0.004%
38	5.518	5.504	5.538	PV	410	5182	0.05%	0.002%
39	5.549	5.538	5.559	VV	189	1550	0.01%	0.001%
40	5.565	5.559	5.603	PV	240	3982	0.04%	0.002%
41	5.612	5.603	5.619	VV	211	1351	0.01%	0.001%
42	5.631	5.624	5.642	VV	181	1272	0.01%	0.001%
43	5.693	5.668	5.797	VV	793145	7931134	74.36%	3.770%
44	5.811	5.797	5.854	VV	4295	93483	0.88%	0.044%
45	5.869	5.854	5.909	VV	2478	48819	0.46%	0.023%
46	5.935	5.909	5.989	VV	1373	40532	0.38%	0.019%
47	6.002	5.989	6.017	VV	597	7544	0.07%	0.004%
48	6.023	6.017	6.045	VV	453	5914	0.06%	0.003%
49	6.063	6.045	6.105	VV	735	19006	0.18%	0.009%
50	6.112	6.105	6.117	VV	542	3388	0.03%	0.002%
51	6.140	6.117	6.200	VV	69527	744439	6.98%	0.354%
52	6.221	6.200	6.242	VV	1744	23671	0.22%	0.011%
53	6.261	6.242	6.275	VV	1241	13623	0.13%	0.006%
54	6.291	6.275	6.310	VV	3148	36237	0.34%	0.017%
55	6.322	6.310	6.345	VV	898	11995	0.11%	0.006%
56	6.362	6.345	6.392	VV	1662	18852	0.18%	0.009%
57	6.399	6.392	6.407	VV	246	1640	0.02%	0.001%
58	6.412	6.407	6.436	VV	249	2069	0.02%	0.001%
59	6.471	6.436	6.494	PV	335	6665	0.06%	0.003%
60	6.506	6.494	6.510	VV	295	1869	0.02%	0.001%
61	6.515	6.510	6.539	VV	325	3837	0.04%	0.002%
62	6.577	6.547	6.601	VV	1688	20132	0.19%	0.010%
63	6.631	6.601	6.642	VV	1678	22082	0.21%	0.010%
64	6.658	6.642	6.694	VV	16123	203178	1.91%	0.097%
65	6.702	6.694	6.710	VV	2044	17501	0.16%	0.008%
66	6.739	6.710	6.873	VV	733466	7782063	72.97%	3.699%
67	6.879	6.873	6.886	VV	1511	11215	0.11%	0.005%
68	6.913	6.886	6.957	VV	8088	122141	1.15%	0.058%
69	6.989	6.957	7.010	VV	3353	71321	0.67%	0.034%
70	7.024	7.010	7.030	VV	2196	23196	0.22%	0.011%
71	7.041	7.030	7.052	VV	2222	26499	0.25%	0.013%
72	7.059	7.052	7.081	VV	2270	28270	0.27%	0.013%
73	7.088	7.081	7.094	VV	1071	6659	0.06%	0.003%
74	7.115	7.094	7.132	VV	1781	27765	0.26%	0.013%
75	7.145	7.132	7.170	VV	1979	26742	0.25%	0.013%
76	7.174	7.170	7.180	VV	411	2111	0.02%	0.001%
77	7.185	7.180	7.209	VV	561	6818	0.06%	0.003%
78	7.230	7.209	7.247	VV	1002	14943	0.14%	0.007%
79	7.253	7.247	7.292	VV	587	10829	0.10%	0.005%
80	7.315	7.292	7.327	VV	2494	27722	0.26%	0.013%
81	7.352	7.327	7.477	VV	832219	8468199	79.40%	4.025%
82	7.480	7.477	7.497	VV	1490	15443	0.14%	0.007%
83	7.510	7.497	7.530	VV	1172	19450	0.18%	0.009%
84	7.538	7.530	7.562	VV	805	12286	0.12%	0.006%
85	7.579	7.562	7.604	VV	862	14891	0.14%	0.007%
86	7.623	7.604	7.649	VV	1713	22247	0.21%	0.011%
87	7.656	7.649	7.665	VV	377	2873	0.03%	0.001%
88	7.677	7.665	7.692	VV	562	5658	0.05%	0.003%
89	7.710	7.692	7.737	VV	743	11487	0.11%	0.005%

rteres

90	7.747	7.737	7.770	VV	346	4571	0.04%	0.002%
91	7.775	7.770	7.794	VV	370	2870	0.03%	0.001%
92	7.830	7.794	7.841	PV	493	7795	0.07%	0.004%
93	7.845	7.841	7.849	VV	322	1291	0.01%	0.001%
94	7.853	7.849	7.866	VV	272	2010	0.02%	0.001%
95	7.874	7.866	7.890	VV	319	2466	0.02%	0.001%
96	7.918	7.890	7.966	VV	76664	801713	7.52%	0.381%
97	7.972	7.966	7.978	VV	522	2714	0.03%	0.001%
98	8.005	7.978	8.095	VV	911037	9055813	84.91%	4.304%
99	8.114	8.095	8.133	VV	1822	31019	0.29%	0.015%
100	8.147	8.133	8.173	VV	1454	22842	0.21%	0.011%
101	8.203	8.173	8.272	VV	526994	5494210	51.51%	2.612%
102	8.300	8.272	8.367	VV	953439	9682877	90.79%	4.603%
103	8.375	8.367	8.398	VV	3452	54189	0.51%	0.026%
104	8.409	8.398	8.421	VV	2278	28942	0.27%	0.014%
105	8.426	8.421	8.439	VV	2045	19416	0.18%	0.009%
106	8.458	8.439	8.498	VV	2637	62203	0.58%	0.030%
107	8.514	8.498	8.545	VV	1431	24037	0.23%	0.011%
108	8.569	8.545	8.600	VV	1240	25005	0.23%	0.012%
109	8.635	8.600	8.713	VV	86818	934105	8.76%	0.444%
110	8.746	8.713	8.787	VV	5720	112882	1.06%	0.054%
111	8.820	8.787	8.850	VV	1900	37177	0.35%	0.018%
112	8.870	8.850	8.901	VV	879	12718	0.12%	0.006%
113	8.945	8.901	8.952	VV	570	10933	0.10%	0.005%
114	8.957	8.952	8.962	VV	501	2561	0.02%	0.001%
115	8.977	8.962	8.993	VV	555	6632	0.06%	0.003%
116	9.018	8.993	9.030	PV	873	10350	0.10%	0.005%
117	9.033	9.030	9.052	VV	664	6407	0.06%	0.003%
118	9.079	9.052	9.218	VV	919552	9905080	92.87%	4.708%
119	9.238	9.218	9.257	VV	1598	29835	0.28%	0.014%
120	9.262	9.257	9.274	VV	878	7981	0.07%	0.004%
121	9.314	9.274	9.369	VV	8290	185349	1.74%	0.088%
122	9.385	9.369	9.480	VV	15834	371651	3.48%	0.177%
123	9.506	9.480	9.558	VV	79885	884992	8.30%	0.421%
124	9.592	9.558	9.635	VV	994	34197	0.32%	0.016%
125	9.655	9.635	9.670	VV	484	7859	0.07%	0.004%
126	9.686	9.670	9.714	VV	420	6043	0.06%	0.003%
127	9.762	9.714	9.769	PV	438	4785	0.04%	0.002%
128	9.777	9.769	9.790	VV	456	4352	0.04%	0.002%
129	9.822	9.790	9.843	VV	1018	17425	0.16%	0.008%
130	9.858	9.843	9.867	VV	473	5264	0.05%	0.003%
131	9.882	9.867	9.888	VV	601	6706	0.06%	0.003%
132	9.894	9.888	9.919	VV	854	11228	0.11%	0.005%
133	9.934	9.919	9.957	VV	927	14006	0.13%	0.007%
134	9.967	9.957	9.974	VV	591	4945	0.05%	0.002%
135	9.978	9.974	9.990	VV	561	4749	0.04%	0.002%
136	10.010	9.990	10.042	VV	1696	22351	0.21%	0.011%
137	10.051	10.042	10.057	VV	344	1640	0.02%	0.001%
138	10.101	10.057	10.114	VV	1033	17019	0.16%	0.008%
139	10.131	10.114	10.157	VV	859	14601	0.14%	0.007%
140	10.182	10.157	10.204	VV	920	16808	0.16%	0.008%
141	10.237	10.204	10.248	VV	1208	19381	0.18%	0.009%

rteres

142	10.253	10.248	10.271	VV	1291	12598	0.12%	0.006%
143	10.288	10.271	10.297	VV	5325	57446	0.54%	0.027%
144	10.301	10.297	10.344	VV	5071	85103	0.80%	0.040%
145	10.363	10.344	10.394	VV	2702	42527	0.40%	0.020%
146	10.402	10.394	10.415	VV	453	4799	0.04%	0.002%
147	10.468	10.415	10.513	VV	959109	10175341	95.41%	4.837%
148	10.543	10.513	10.650	VV	865227	10276064	96.35%	4.884%
149	10.655	10.650	10.783	VV	5325	192747	1.81%	0.092%
150	10.801	10.783	10.808	VV	960	13324	0.12%	0.006%
151	10.815	10.808	10.840	VV	921	14729	0.14%	0.007%
152	10.846	10.840	10.853	VV	680	4871	0.05%	0.002%
153	10.874	10.853	10.888	VV	1240	21058	0.20%	0.010%
154	10.892	10.888	10.906	VV	1241	12913	0.12%	0.006%
155	10.937	10.906	10.978	VV	80624	916417	8.59%	0.436%
156	10.987	10.978	10.995	VV	935	8441	0.08%	0.004%
157	11.027	10.995	11.055	VV	1374	32725	0.31%	0.016%
158	11.061	11.055	11.082	VV	517	6492	0.06%	0.003%
159	11.084	11.082	11.089	VV	468	1545	0.01%	0.001%
160	11.091	11.089	11.097	VV	452	1825	0.02%	0.001%
161	11.101	11.097	11.105	VV	283	1124	0.01%	0.001%
162	11.122	11.105	11.127	VV	450	3943	0.04%	0.002%
163	11.146	11.127	11.152	VV	468	5580	0.05%	0.003%
164	11.157	11.152	11.202	VV	450	5023	0.05%	0.002%
165	11.234	11.202	11.308	PV	491209	5436431	50.97%	2.584%
166	11.320	11.308	11.335	VV	1361	18120	0.17%	0.009%
167	11.338	11.335	11.363	VV	856	12192	0.11%	0.006%
168	11.375	11.363	11.385	VV	1117	11249	0.11%	0.005%
169	11.407	11.385	11.444	VV	1757	28183	0.26%	0.013%
170	11.461	11.444	11.481	VV	369	5860	0.05%	0.003%
171	11.510	11.481	11.522	VV	1254	22960	0.22%	0.011%
172	11.532	11.522	11.549	VV	1360	17580	0.16%	0.008%
173	11.561	11.549	11.577	VV	1365	19769	0.19%	0.009%
174	11.593	11.577	11.615	VV	1474	25919	0.24%	0.012%
175	11.618	11.615	11.625	VV	818	4558	0.04%	0.002%
176	11.629	11.625	11.635	VV	904	4702	0.04%	0.002%
177	11.662	11.635	11.696	VV	7388	104342	0.98%	0.050%
178	11.702	11.696	11.718	VV	752	7375	0.07%	0.004%
179	11.737	11.718	11.750	VV	887	14523	0.14%	0.007%
180	11.760	11.750	11.775	VV	894	9693	0.09%	0.005%
181	11.815	11.775	11.836	VV	2082	42497	0.40%	0.020%
182	11.857	11.836	11.923	VV	28885	405403	3.80%	0.193%
183	11.932	11.923	11.959	VV	1958	32662	0.31%	0.016%
184	11.976	11.959	11.993	VV	1482	25899	0.24%	0.012%
185	12.015	11.993	12.040	VV	1390	29080	0.27%	0.014%
186	12.103	12.040	12.135	VV	7321	134707	1.26%	0.064%
187	12.144	12.135	12.158	VV	828	9196	0.09%	0.004%
188	12.178	12.158	12.197	VV	2181	30313	0.28%	0.014%
189	12.239	12.197	12.248	VV	79220	875296	8.21%	0.416%
190	12.273	12.248	12.427	VV	912682	10665336	100.00%	5.070%
191	12.436	12.427	12.450	VV	817	9715	0.09%	0.005%
192	12.467	12.450	12.507	VV	7234	99938	0.94%	0.048%
193	12.513	12.507	12.527	VV	893	8905	0.08%	0.004%
194	12.566	12.527	12.630	VV	887669	10352709	97.07%	4.921%

rteres

195	12.647	12.630	12.651	VV	8220	86525	0.81%	0.041%
196	12.676	12.651	12.724	VV	97675	1268327	11.89%	0.603%
197	12.726	12.724	12.778	VV	2129	48686	0.46%	0.023%
198	12.783	12.778	12.791	VV	1161	8032	0.08%	0.004%
199	12.801	12.791	12.807	VV	988	8990	0.08%	0.004%
200	12.812	12.807	12.817	VV	948	5699	0.05%	0.003%
201	12.846	12.817	12.887	VV	72685	878950	8.24%	0.418%
202	12.910	12.887	12.944	VV	4655	74190	0.70%	0.035%
203	12.965	12.944	12.972	VV	860	12682	0.12%	0.006%
204	12.989	12.972	13.017	VV	921	20436	0.19%	0.010%
205	13.038	13.017	13.065	VV	1218	27663	0.26%	0.013%
206	13.084	13.065	13.170	VV	9050	195629	1.83%	0.093%
207	13.175	13.170	13.193	VV	1156	13485	0.13%	0.006%
208	13.200	13.193	13.210	VV	910	8136	0.08%	0.004%
209	13.224	13.210	13.229	VV	909	8915	0.08%	0.004%
210	13.235	13.229	13.243	VV	806	6098	0.06%	0.003%
211	13.262	13.243	13.284	VV	975	20576	0.19%	0.010%
212	13.296	13.284	13.324	VV	1002	17856	0.17%	0.008%
213	13.327	13.324	13.349	VV	652	8655	0.08%	0.004%
214	13.384	13.349	13.402	VV	2352	44085	0.41%	0.021%
215	13.428	13.402	13.475	VV	71602	872259	8.18%	0.415%
216	13.479	13.475	13.482	VV	640	2234	0.02%	0.001%
217	13.487	13.482	13.512	VV	631	7759	0.07%	0.004%
218	13.535	13.512	13.544	VV	483	5924	0.06%	0.003%
219	13.548	13.544	13.577	VV	297	4546	0.04%	0.002%
220	13.580	13.577	13.594	VV	195	1378	0.01%	0.001%
221	13.597	13.594	13.617	VV	126	1127	0.01%	0.001%
222	13.621	13.617	13.636	PV	156	1184	0.01%	0.001%
223	13.642	13.636	13.655	VV	295	2314	0.02%	0.001%
224	13.657	13.655	13.667	VV	320	1227	0.01%	0.001%
225	13.688	13.667	13.707	VV	385	6584	0.06%	0.003%
226	13.713	13.707	13.720	VV	375	2065	0.02%	0.001%
227	13.760	13.720	13.776	VV	463	9273	0.09%	0.004%
228	13.788	13.776	13.796	VV	381	2968	0.03%	0.001%
229	13.801	13.796	13.807	VV	365	1749	0.02%	0.001%
230	13.811	13.807	13.815	VV	367	1539	0.01%	0.001%
231	13.826	13.815	13.837	VV	587	6565	0.06%	0.003%
232	13.869	13.837	13.902	VV	1878	36177	0.34%	0.017%
233	13.908	13.902	13.915	VV	485	3250	0.03%	0.002%
234	13.919	13.915	13.934	VV	438	3758	0.04%	0.002%
235	13.940	13.934	14.012	VV	382	17155	0.16%	0.008%
236	14.033	14.012	14.052	VV	432	7333	0.07%	0.003%
237	14.067	14.052	14.078	VV	447	5509	0.05%	0.003%
238	14.085	14.078	14.105	VV	619	7334	0.07%	0.003%
239	14.111	14.105	14.117	VV	559	3365	0.03%	0.002%
240	14.132	14.117	14.137	VV	690	6708	0.06%	0.003%
241	14.156	14.137	14.164	VV	674	8016	0.08%	0.004%
242	14.167	14.164	14.173	VV	406	1856	0.02%	0.001%
243	14.194	14.173	14.214	VV	474	9586	0.09%	0.005%
244	14.222	14.214	14.229	VV	520	3538	0.03%	0.002%
245	14.235	14.229	14.239	VV	416	2379	0.02%	0.001%
246	14.243	14.239	14.262	VV	488	4644	0.04%	0.002%

rteres

247	14.287	14.262	14.294	VV	690	8547	0.08%	0.004%
248	14.300	14.294	14.309	VV	727	5752	0.05%	0.003%
249	14.315	14.309	14.321	VV	704	4011	0.04%	0.002%
250	14.326	14.321	14.332	VV	663	3639	0.03%	0.002%
251	14.338	14.332	14.359	VV	805	7951	0.07%	0.004%
252	14.374	14.359	14.379	VV	710	6675	0.06%	0.003%
253	14.382	14.379	14.402	VV	625	6411	0.06%	0.003%
254	14.438	14.402	14.456	VV	807419	9837573	92.24%	4.676%
255	14.480	14.456	14.507	VV	786236	9615926	90.16%	4.571%
256	14.525	14.507	14.674	VV	83192	1533940	14.38%	0.729%
257	14.698	14.674	14.727	VV	1824	47432	0.44%	0.023%
258	14.738	14.727	14.770	VV	1205	24157	0.23%	0.011%
259	14.773	14.770	14.790	VV	780	8300	0.08%	0.004%
260	14.807	14.790	14.817	VV	777	10555	0.10%	0.005%
261	14.834	14.817	14.843	VV	972	10798	0.10%	0.005%
262	14.849	14.843	14.863	VV	677	7364	0.07%	0.004%
263	14.903	14.863	14.970	VV	15235	283632	2.66%	0.135%
264	14.976	14.970	14.982	VV	1372	9086	0.09%	0.004%
265	14.990	14.982	15.016	VV	1529	22470	0.21%	0.011%
266	15.029	15.016	15.035	VV	942	9881	0.09%	0.005%
267	15.060	15.035	15.090	VV	2621	46533	0.44%	0.022%
268	15.105	15.090	15.122	VV	761	10668	0.10%	0.005%
269	15.125	15.122	15.156	VV	516	8200	0.08%	0.004%
270	15.169	15.156	15.175	VV	577	5206	0.05%	0.002%
271	15.178	15.175	15.202	VV	550	7725	0.07%	0.004%
272	15.208	15.202	15.214	VV	633	3812	0.04%	0.002%
273	15.242	15.214	15.257	VV	1191	20756	0.19%	0.010%
274	15.261	15.257	15.288	VV	705	8332	0.08%	0.004%
275	15.293	15.288	15.297	VV	285	1513	0.01%	0.001%
276	15.302	15.297	15.309	VV	502	2774	0.03%	0.001%
277	15.312	15.309	15.320	VV	416	2600	0.02%	0.001%
278	15.345	15.320	15.350	VV	781	10605	0.10%	0.005%
279	15.361	15.350	15.374	VV	760	9347	0.09%	0.004%
280	15.390	15.374	15.408	VV	821	13919	0.13%	0.007%
281	15.422	15.408	15.431	VV	867	10107	0.09%	0.005%
282	15.446	15.431	15.469	VV	885	16564	0.16%	0.008%
283	15.474	15.469	15.482	VV	578	4088	0.04%	0.002%
284	15.503	15.482	15.512	VV	1721	21554	0.20%	0.010%
285	15.542	15.512	15.578	VV	64394	815203	7.64%	0.387%
286	15.583	15.578	15.630	VV	917	17000	0.16%	0.008%
287	15.636	15.630	15.659	VV	238	2610	0.02%	0.001%
288	15.699	15.659	15.732	VV	1871	29386	0.28%	0.014%
289	15.737	15.732	15.742	VV	408	1762	0.02%	0.001%
290	15.749	15.742	15.784	VV	323	5502	0.05%	0.003%
291	15.794	15.784	15.799	VV	327	1956	0.02%	0.001%
292	15.806	15.799	15.834	VV	274	4040	0.04%	0.002%
293	15.854	15.834	15.867	VV	309	4156	0.04%	0.002%
294	15.915	15.878	15.950	PV	1664	34194	0.32%	0.016%
295	15.988	15.950	16.002	VV	733411	9839949	92.26%	4.677%
296	16.023	16.002	16.085	VV	801622	9987928	93.65%	4.748%
297	16.100	16.085	16.175	VV	6478	164447	1.54%	0.078%
298	16.209	16.175	16.220	VV	1580	39604	0.37%	0.019%
299	16.225	16.220	16.248	VV	1650	21318	0.20%	0.010%

rteres

300	16.266	16.248	16.305	VV	2789	48714	0.46%	0.023%
301	16.312	16.305	16.325	VV	797	8447	0.08%	0.004%
302	16.364	16.325	16.457	VV	699804	9463870	88.73%	4.498%
303	16.485	16.457	16.512	VV	65754	958399	8.99%	0.456%
304	16.528	16.512	16.587	VV	10279	190737	1.79%	0.091%
305	16.590	16.587	16.630	VV	1305	23976	0.22%	0.011%
306	16.651	16.630	16.680	VV	986	21212	0.20%	0.010%
307	16.687	16.680	16.699	VV	651	6350	0.06%	0.003%
308	16.704	16.699	16.719	VV	793	7174	0.07%	0.003%
309	16.723	16.719	16.734	VV	417	3260	0.03%	0.002%
310	16.739	16.734	16.750	VV	392	3204	0.03%	0.002%
311	16.795	16.750	16.817	VV	1419	26779	0.25%	0.013%
312	16.822	16.817	16.829	VV	368	2250	0.02%	0.001%
313	16.856	16.829	16.890	VV	1073	24292	0.23%	0.012%
314	16.935	16.890	16.968	VV	2429	46569	0.44%	0.022%
315	16.975	16.968	16.989	VV	494	4292	0.04%	0.002%
316	16.991	16.989	16.998	VV	435	2048	0.02%	0.001%
317	17.025	16.998	17.052	VV	709	14835	0.14%	0.007%
318	17.064	17.052	17.077	VV	564	5942	0.06%	0.003%
319	17.082	17.077	17.135	VV	371	8045	0.08%	0.004%
320	17.175	17.135	17.200	VV	570	14076	0.13%	0.007%
321	17.218	17.200	17.227	VV	497	6399	0.06%	0.003%
322	17.232	17.227	17.237	VV	561	2755	0.03%	0.001%
323	17.257	17.237	17.285	VV	1124	19989	0.19%	0.010%
324	17.298	17.285	17.305	VV	671	6128	0.06%	0.003%
325	17.370	17.305	17.421	VV	57411	810224	7.60%	0.385%
326	17.426	17.421	17.432	VV	378	2214	0.02%	0.001%
327	17.456	17.432	17.486	VV	2731	41462	0.39%	0.020%
328	17.493	17.486	17.508	VV	465	5265	0.05%	0.003%
329	17.517	17.508	17.522	VV	461	3206	0.03%	0.002%
330	17.528	17.522	17.542	VV	408	4093	0.04%	0.002%
331	17.569	17.542	17.594	VV	464	9621	0.09%	0.005%
332	17.620	17.594	17.627	PV	226	3085	0.03%	0.001%
333	17.634	17.627	17.642	VV	131	1265	0.01%	0.001%
334	17.660	17.642	17.677	VV	626	7186	0.07%	0.003%
335	17.734	17.677	17.747	VV	669070	9359859	87.76%	4.449%
336	17.769	17.747	17.944	VV	632255	9475979	88.85%	4.504%
337	17.986	17.944	18.152	VV	628212	9464386	88.74%	4.499%
338	18.195	18.152	18.238	VV	55558	816334	7.65%	0.388%
339	18.241	18.238	18.280	VV	751	9095	0.09%	0.004%

Sum of corrected areas: 210382375

Aromatic EPH 021125.M Sat Mar 01 04:01:07 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-05	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
FC068312.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	201		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	158		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	238		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	531		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.7		40 - 140	69%	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:	Q1421-05	Acq On:	27 Feb 2025 14:03
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FC068312.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	3.104	6.370	14219855	100.825	300	ug/ml
Aliphatic C12-C16	6.371	9.754	10816763	79.154	200	ug/ml
Aliphatic C16-C21	9.755	13.108	15702633	119.293	300	ug/ml
Aliphatic C21-C28	13.109	16.762	19637716	160.058	400	ug/ml
Aliphatic C28-C40	16.763	21.566	27320361	265.642	600	ug/ml
Aliphatic EPH	3.104	21.566	87697328	724.972		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.840	12.840	3904213	34.71		ug/ml
Aliphatic C9-C28	3.104	16.762	60376967	459.33	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068312.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1421-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Integration File: autoint1.e
Quant Time: Mar 05 04:44:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.840	3904213	34.712 ug/ml
Spiked Amount	50.000		Recovery =	69.42%
	Target Compounds			
1) T	n-Nonane (C9)	3.206	4022050	28.591 ug/ml
2) T	n-Decane (C10)	4.263	4575486	32.296 ug/ml
4) T	n-Dodecane (C12)	6.271	4874122	34.628 ug/ml
6) T	n-Tetradecane (C14)	8.060	4965346	36.418 ug/ml
7) T	n-Hexadecane (C16)	9.656	4960780	36.219 ug/ml
8) T	n-Octadecane (C18)	11.094	5053949	36.955 ug/ml
10) T	n-Eicosane (C20)	12.401	5159155	39.598 ug/ml
11) T	n-Heneicosane (C21)	13.012	4939006	38.632 ug/ml
13) T	n-Docosane (C22)	13.596	4933624	39.147 ug/ml
14) T	n-Tetracosane (C24)	14.698	4864443	39.110 ug/ml
15) T	n-Hexacosane (C26)	15.717	4768879	39.220 ug/ml
16) T	n-Octacosane (C28)	16.665	4622336	38.919 ug/ml
17) T	n-Tricontane (C30)	17.552	4660035	38.715 ug/mlm
18) T	n-Dotriacontane (C32)	18.381	4477414	38.576 ug/mlm
19) T	n-Tetratriacontane (C34)	19.166	4193800	38.810 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	3845962	39.992 ug/ml
21) T	n-Octatriacontane (C38)	20.616	3662819	40.744 ug/ml
22) T	n-Tetracontane (C40)	21.473	3506889	40.532 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068312.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1421-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

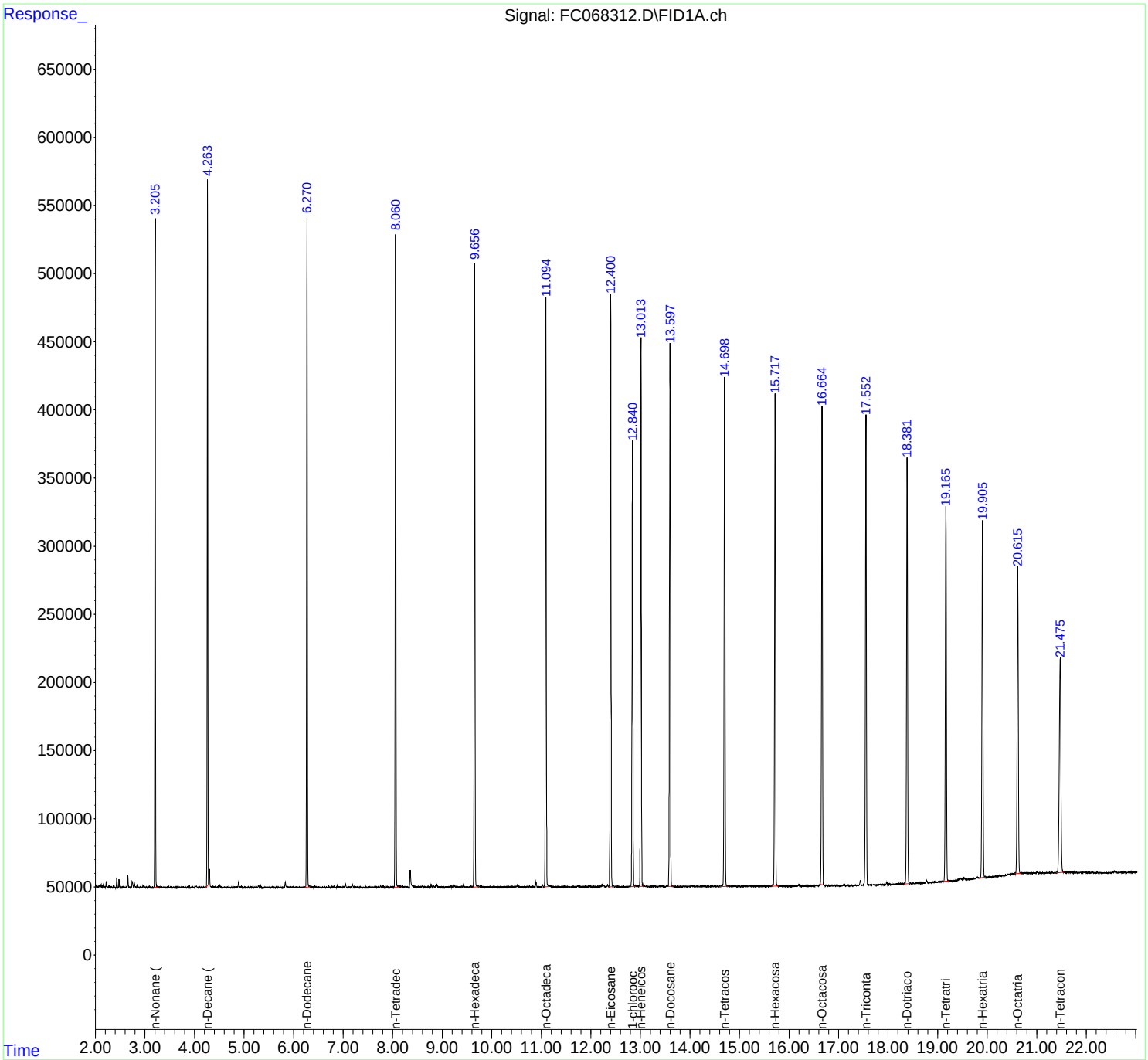
Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

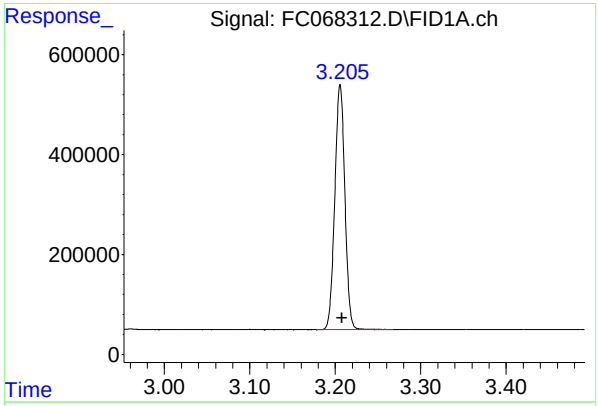
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Integration File: autoint1.e
Quant Time: Mar 05 04:44:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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





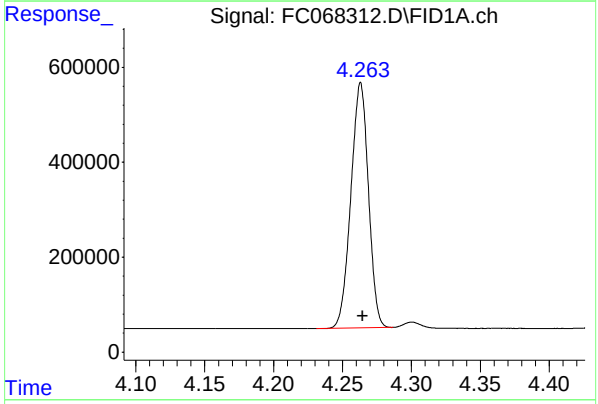
#1 n-Nonane (C9)

R.T.: 3.206 min
Delta R.T.: -0.002 min
Response: 4022050
Conc: 28.59 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

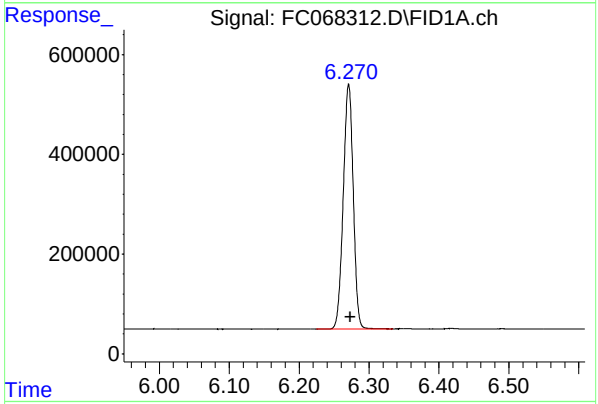
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



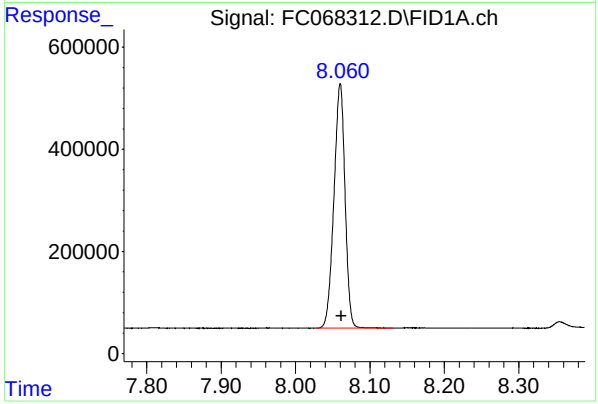
#2 n-Decane (C10)

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 4575486
Conc: 32.30 ug/ml



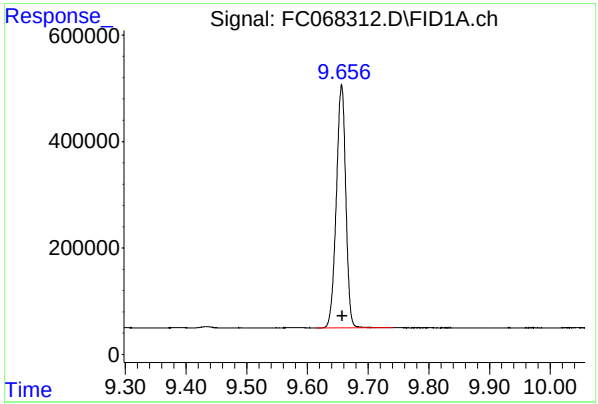
#4 n-Dodecane (C12)

R.T.: 6.271 min
Delta R.T.: -0.002 min
Response: 4874122
Conc: 34.63 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.060 min
Delta R.T.: -0.002 min
Response: 4965346
Conc: 36.42 ug/ml



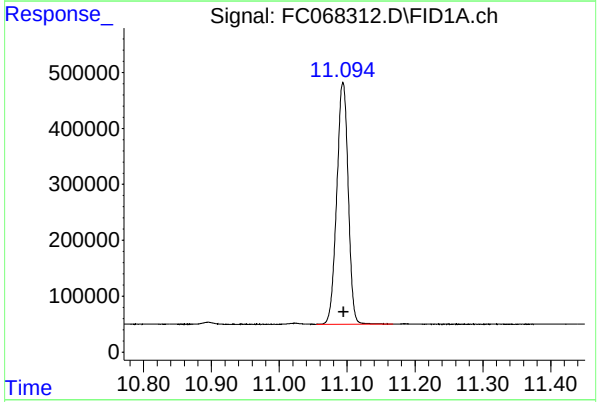
#7 n-Hexadecane (C16)

R.T.: 9.656 min
Delta R.T.: -0.001 min
Response: 4960780
Conc: 36.22 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

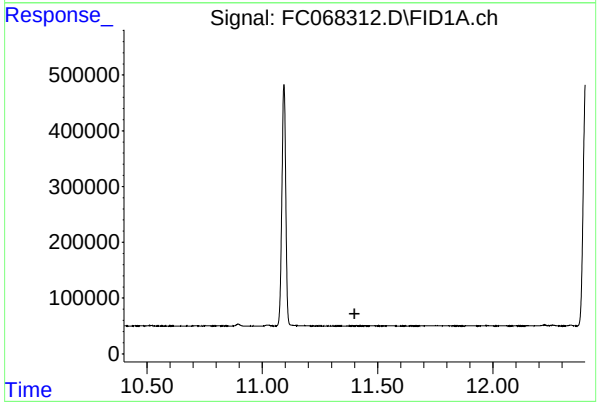
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



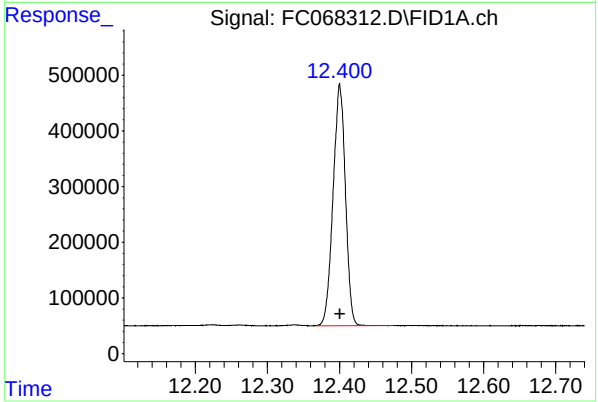
#8 n-Octadecane (C18)

R.T.: 11.094 min
Delta R.T.: 0.000 min
Response: 5053949
Conc: 36.96 ug/ml



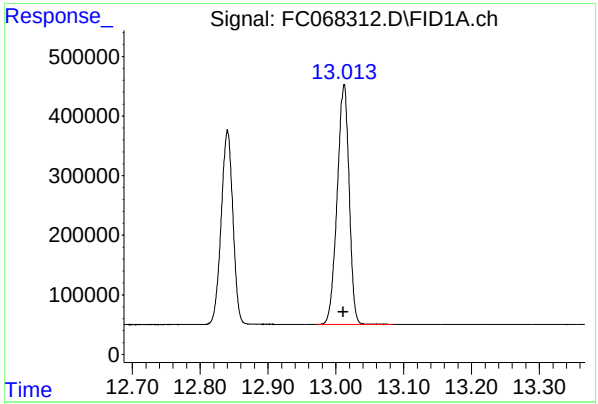
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 5159155
Conc: 39.60 ug/ml



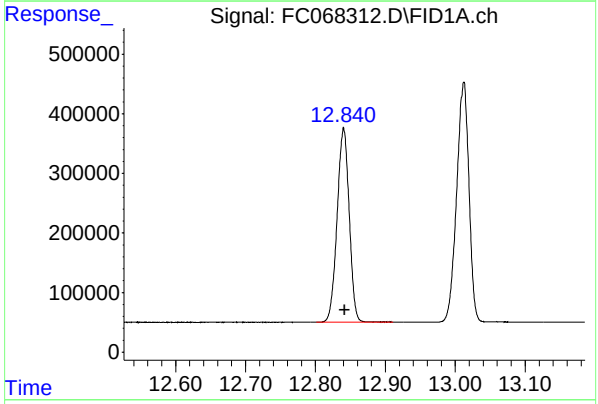
#11 n-Heneicosane (C21)

R.T.: 13.012 min
Delta R.T.: 0.000 min
Response: 4939006
Conc: 38.63 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

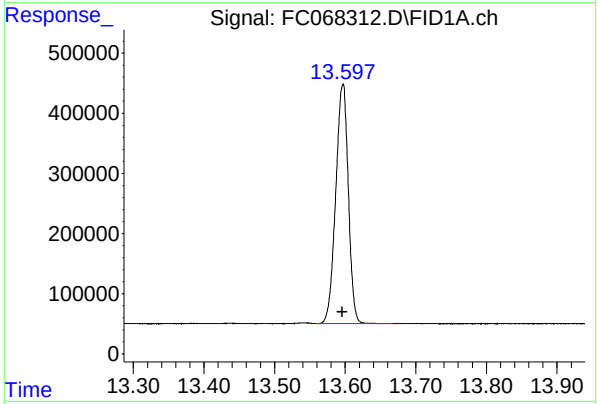
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



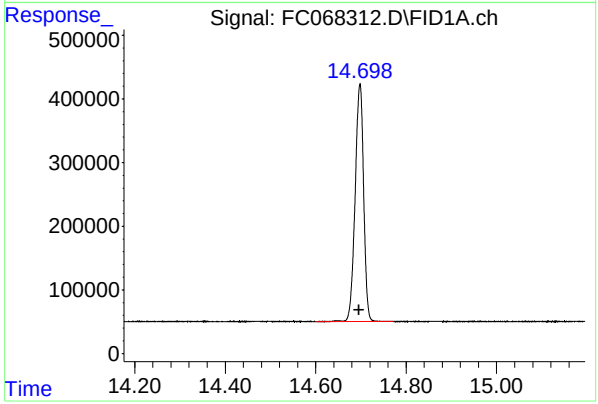
#12 1-chlorooctadecane (SURR)

R.T.: 12.840 min
Delta R.T.: -0.001 min
Response: 3904213
Conc: 34.71 ug/ml



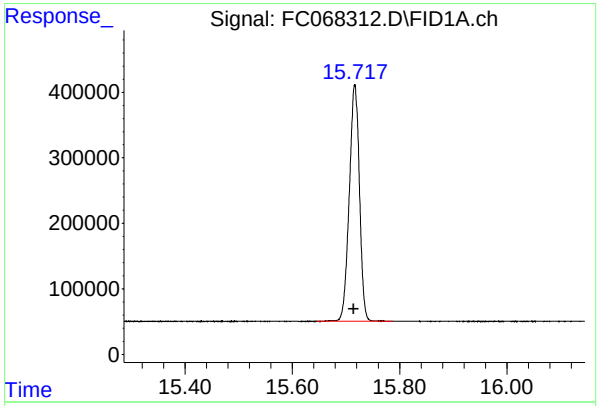
#13 n-Docosane (C22)

R.T.: 13.596 min
Delta R.T.: 0.000 min
Response: 4933624
Conc: 39.15 ug/ml



#14 n-Tetracosane (C24)

R.T.: 14.698 min
Delta R.T.: 0.002 min
Response: 4864443
Conc: 39.11 ug/ml



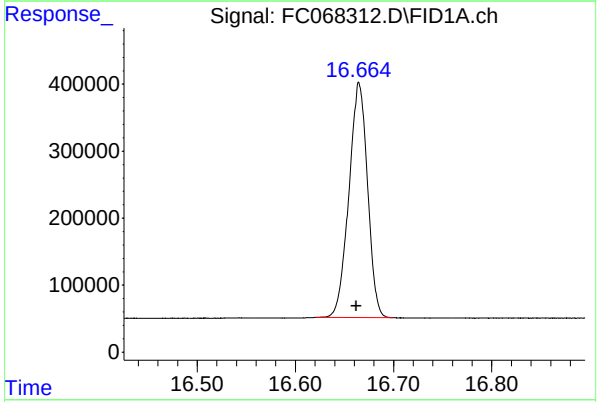
#15 n-Hexacosane (C26)

R.T.: 15.717 min
Delta R.T.: 0.003 mi
Response: 4768879
Conc: 39.22 ug/m

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

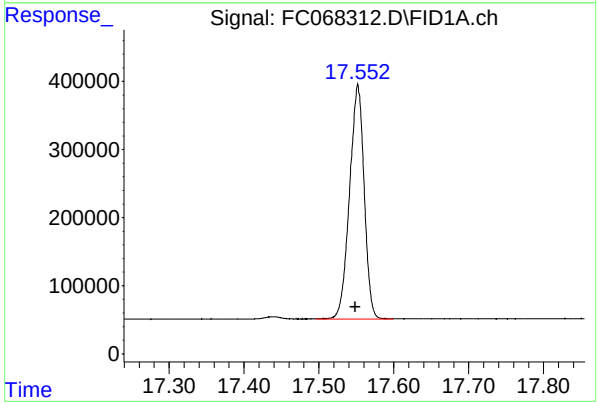
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



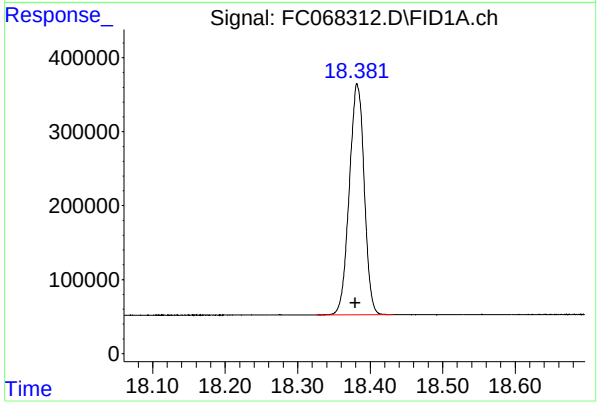
#16 n-Octacosane (C28)

R.T.: 16.665 min
Delta R.T.: 0.003 min
Response: 4622336
Conc: 38.92 ug/ml



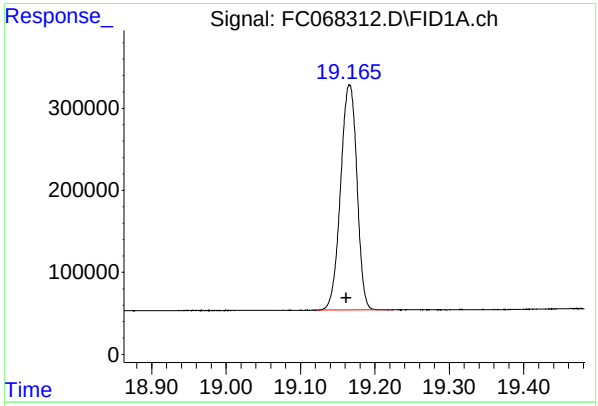
#17 n-Tricontane (C30)

R.T.: 17.552 min
Delta R.T.: 0.003 min
Response: 4660035
Conc: 38.72 ug/ml m



#18 n-Dotriacontane (C32)

R.T.: 18.381 min
Delta R.T.: 0.002 min
Response: 4477414
Conc: 38.58 ug/ml m



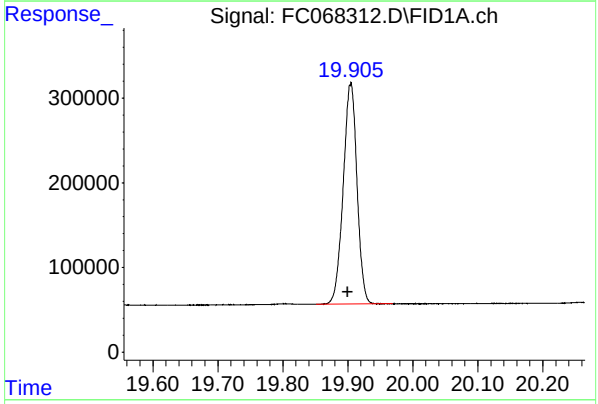
#19 n-Tetratriacontane (C34)

R.T.: 19.166 min
Delta R.T.: 0.005 min
Response: 4193800
Conc: 38.81 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

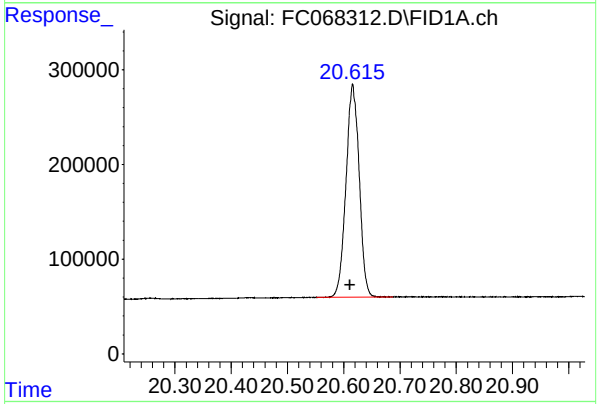
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



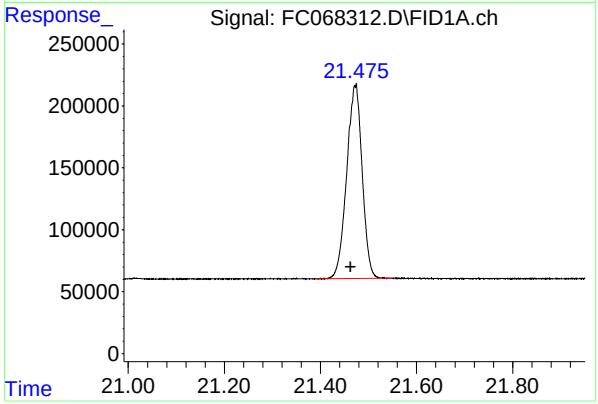
#20 n-Hexatriacontane (C36)

R.T.: 19.904 min
Delta R.T.: 0.004 min
Response: 3845962
Conc: 39.99 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.616 min
Delta R.T.: 0.005 min
Response: 3662819
Conc: 40.74 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.473 min
Delta R.T.: 0.010 min
Response: 3506889
Conc: 40.53 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02272
Data File : FC068312.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 14:03
Sample : Q1421-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.374	2.304	2.403	BV	1748	16127	0.31%	0.017%
2	2.431	2.403	2.458	PV	7159	60633	1.17%	0.066%
3	2.476	2.458	2.518	VV	5873	49720	0.96%	0.054%
4	2.527	2.518	2.536	VV	173	902	0.02%	0.001%
5	2.557	2.536	2.577	VV	331	3737	0.07%	0.004%
6	2.592	2.577	2.617	VV	255	2609	0.05%	0.003%
7	2.654	2.617	2.711	PV	9106	79438	1.53%	0.086%
8	2.742	2.711	2.770	VV	4617	60571	1.17%	0.066%
9	2.788	2.770	2.821	VV	2454	25058	0.48%	0.027%
10	2.839	2.821	2.901	VV	1768	18971	0.37%	0.021%
11	2.918	2.901	2.935	VV	271	3513	0.07%	0.004%
12	2.961	2.935	3.006	VV	1432	14560	0.28%	0.016%
13	3.025	3.006	3.046	VV	271	4590	0.09%	0.005%
14	3.059	3.046	3.074	VV	157	2012	0.04%	0.002%
15	3.101	3.074	3.129	VV	447	5054	0.10%	0.005%
16	3.158	3.129	3.176	PV	116	1915	0.04%	0.002%
17	3.206	3.176	3.281	VV	485365	4036941	77.96%	4.379%
18	3.290	3.281	3.311	VV	321	5056	0.10%	0.005%
19	3.326	3.311	3.364	VV	460	8807	0.17%	0.010%
20	3.380	3.364	3.390	VV	275	3916	0.08%	0.004%
21	3.403	3.390	3.447	VV	380	6946	0.13%	0.008%
22	3.480	3.447	3.501	VV	436	8688	0.17%	0.009%
23	3.519	3.501	3.550	VV	415	7772	0.15%	0.008%
24	3.572	3.550	3.658	VV	271	6869	0.13%	0.007%
25	3.693	3.658	3.704	VV	361	4294	0.08%	0.005%
26	3.711	3.704	3.758	VV	269	5173	0.10%	0.006%
27	3.775	3.758	3.825	VV	352	6491	0.13%	0.007%
28	3.866	3.825	3.879	VV	647	8510	0.16%	0.009%
29	3.894	3.879	3.914	VV	1030	11035	0.21%	0.012%
30	3.920	3.914	3.948	VV	216	2955	0.06%	0.003%
31	3.960	3.948	3.982	VV	263	2894	0.06%	0.003%
32	4.029	3.982	4.109	VV	996	24296	0.47%	0.026%
33	4.128	4.109	4.155	VV	198	3618	0.07%	0.004%
34	4.193	4.155	4.229	VV	246	7401	0.14%	0.008%
35	4.263	4.229	4.287	VV	518493	4622022	89.26%	5.014%
36	4.301	4.287	4.346	VV	13718	144025	2.78%	0.156%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

37	4.366	4.346	4.389	VV	627	13558	0.26%	0.015%
38	4.429	4.389	4.448	VV	1444	21668	0	
39	4.484	4.448	4.498	VV	1033	15851	0	
40	4.514	4.498	4.559	VV	1892	24289	0	
41	4.586	4.559	4.595	VV	268	4760	0	
42	4.633	4.595	4.688	VV	366	12530	0	
43	4.712	4.688	4.774	VV	260	7700	0.15%	0.008%
44	4.812	4.774	4.842	VV	366	8280	0.16%	0.009%
45	4.891	4.842	4.928	VV	3997	52814	1.02%	0.057%
46	4.947	4.928	4.962	VV	783	8972	0.17%	0.010%
47	4.973	4.962	5.026	VV	341	6495	0.13%	0.007%
48	5.054	5.026	5.066	VV	229	2823	0.05%	0.003%
49	5.081	5.066	5.148	VV	255	6586	0.13%	0.007%
50	5.164	5.148	5.221	VV	217	5693	0.11%	0.006%
51	5.257	5.221	5.271	VV	227	3735	0.07%	0.004%
52	5.292	5.271	5.312	VV	1701	19275	0.37%	0.021%
53	5.332	5.312	5.374	VV	1373	18215	0.35%	0.020%
54	5.388	5.374	5.413	VV	319	4337	0.08%	0.005%
55	5.475	5.413	5.519	VV	329	9627	0.19%	0.010%
56	5.536	5.519	5.550	PV	122	1276	0.02%	0.001%
57	5.583	5.550	5.608	VV	357	7071	0.14%	0.008%
58	5.622	5.608	5.682	VV	212	5703	0.11%	0.006%
59	5.690	5.682	5.714	VV	99	1038	0.02%	0.001%
60	5.743	5.714	5.786	PV	177	4034	0.08%	0.004%
61	5.833	5.786	5.874	VV	3908	53480	1.03%	0.058%
62	5.888	5.874	5.911	VV	554	9264	0.18%	0.010%
63	5.929	5.911	5.953	VV	889	12468	0.24%	0.014%
64	5.990	5.953	6.034	VV	573	13235	0.26%	0.014%
65	6.063	6.034	6.091	VV	360	8300	0.16%	0.009%
66	6.115	6.091	6.131	VV	219	4382	0.08%	0.005%
67	6.149	6.131	6.224	VV	197	9347	0.18%	0.010%
68	6.271	6.224	6.338	VV	491757	4898431	94.59%	5.314%
69	6.352	6.338	6.373	VV	1028	14994	0.29%	0.016%
70	6.388	6.373	6.401	VV	589	8122	0.16%	0.009%
71	6.418	6.401	6.441	VV	1421	18621	0.36%	0.020%
72	6.452	6.441	6.469	VV	552	6521	0.13%	0.007%
73	6.491	6.469	6.530	VV	781	12996	0.25%	0.014%
74	6.543	6.530	6.574	VV	270	5099	0.10%	0.006%
75	6.586	6.574	6.614	VV	296	4930	0.10%	0.005%
76	6.627	6.614	6.647	VV	229	3874	0.07%	0.004%
77	6.664	6.647	6.694	VV	192	4640	0.09%	0.005%
78	6.710	6.694	6.743	VV	679	9690	0.19%	0.011%
79	6.762	6.743	6.797	VV	757	14502	0.28%	0.016%
80	6.812	6.797	6.855	VV	727	15074	0.29%	0.016%
81	6.888	6.855	6.962	VV	2003	37189	0.72%	0.040%
82	6.992	6.962	7.021	VV	342	7087	0.14%	0.008%
83	7.049	7.021	7.081	VV	2523	29467	0.57%	0.032%
84	7.111	7.081	7.140	VV	362	8550	0.17%	0.009%
85	7.156	7.140	7.168	VV	407	5069	0.10%	0.005%
86	7.190	7.168	7.224	VV	2059	25937	0.50%	0.028%
87	7.252	7.224	7.267	VV	436	6870	0.13%	0.007%
88	7.279	7.267	7.319	VV	471	6265	0.12%	0.007%
89	7.344	7.319	7.388	VV	167	4399	0.08%	0.005%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

rteres

90	7.402	7.388	7.415	VV	120	1440	0.03%	0.002%
91	7.449	7.415	7.490	VV	888	11622	0	
92	7.544	7.490	7.580	VV	213	6477	0	
93	7.614	7.580	7.632	VV	247	5508	0	
94	7.644	7.632	7.653	VV	162	1715	0	
95	7.669	7.653	7.693	VV	177	2768	0	
96	7.712	7.693	7.726	VV	269	2671	0.05%	0.003%
97	7.754	7.726	7.779	VV	1061	13500	0.26%	0.015%
98	7.810	7.779	7.829	VV	1041	12835	0.25%	0.014%
99	7.847	7.829	7.894	VV	263	5444	0.11%	0.006%
100	7.911	7.894	7.938	VV	225	3065	0.06%	0.003%
101	7.965	7.938	7.990	VV	625	8725	0.17%	0.009%
102	8.000	7.990	8.017	VV	247	3063	0.06%	0.003%
103	8.060	8.017	8.132	VV	481407	4984149	96.25%	5.407%
104	8.153	8.132	8.188	VV	741	18611	0.36%	0.020%
105	8.204	8.188	8.225	VV	454	7630	0.15%	0.008%
106	8.250	8.225	8.271	VV	494	8273	0.16%	0.009%
107	8.289	8.271	8.327	VV	554	7674	0.15%	0.008%
108	8.355	8.327	8.438	VV	12737	197503	3.81%	0.214%
109	8.449	8.438	8.491	VV	811	18084	0.35%	0.020%
110	8.513	8.491	8.538	VV	593	12763	0.25%	0.014%
111	8.546	8.538	8.575	VV	501	8861	0.17%	0.010%
112	8.597	8.575	8.641	VV	766	18246	0.35%	0.020%
113	8.654	8.641	8.680	VV	285	4419	0.09%	0.005%
114	8.711	8.680	8.725	PV	329	4256	0.08%	0.005%
115	8.778	8.725	8.798	VV	2003	27853	0.54%	0.030%
116	8.813	8.798	8.857	VV	896	20283	0.39%	0.022%
117	8.891	8.857	8.941	VV	1934	38870	0.75%	0.042%
118	8.965	8.941	8.987	VV	389	6286	0.12%	0.007%
119	9.012	8.987	9.037	VV	319	4629	0.09%	0.005%
120	9.118	9.037	9.131	VV	327	9472	0.18%	0.010%
121	9.176	9.131	9.214	VV	673	15128	0.29%	0.016%
122	9.246	9.214	9.275	VV	1176	20556	0.40%	0.022%
123	9.295	9.275	9.328	VV	756	11493	0.22%	0.012%
124	9.339	9.328	9.361	VV	232	3484	0.07%	0.004%
125	9.389	9.361	9.410	VV	731	11839	0.23%	0.013%
126	9.434	9.410	9.474	VV	2638	31711	0.61%	0.034%
127	9.491	9.474	9.508	VV	305	3539	0.07%	0.004%
128	9.527	9.508	9.558	VV	264	5191	0.10%	0.006%
129	9.575	9.558	9.614	VV	685	14052	0.27%	0.015%
130	9.656	9.614	9.769	VV	459123	4988173	96.33%	5.411%
131	9.802	9.769	9.818	VV	395	10038	0.19%	0.011%
132	9.826	9.818	9.861	VV	311	4409	0.09%	0.005%
133	9.881	9.861	9.890	VV	145	1865	0.04%	0.002%
134	9.931	9.890	9.947	VV	214	5124	0.10%	0.006%
135	9.972	9.947	9.991	VV	393	6167	0.12%	0.007%
136	10.046	9.991	10.063	VV	413	11241	0.22%	0.012%
137	10.082	10.063	10.118	VV	289	6536	0.13%	0.007%
138	10.132	10.118	10.179	VV	318	7817	0.15%	0.008%
139	10.187	10.179	10.225	VV	150	3750	0.07%	0.004%
140	10.251	10.225	10.264	VV	338	5771	0.11%	0.006%
141	10.289	10.264	10.306	VV	308	5907	0.11%	0.006%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

142	10.325	10.306	10.353	VV	519	9751	0.19%	0.011%
143	10.393	10.353	10.424	VV	624	15581		
144	10.444	10.424	10.458	VV	354	5571		
145	10.477	10.458	10.490	VV	437	6527		
146	10.517	10.490	10.562	VV	1025	19444		
147	10.578	10.562	10.589	VV	218	3058		
148	10.607	10.589	10.633	VV	253	4053	0.08%	0.004%
149	10.645	10.633	10.668	VV	151	2188	0.04%	0.002%
150	10.675	10.668	10.687	VV	183	1475	0.03%	0.002%
151	10.713	10.687	10.736	VV	434	7691	0.15%	0.008%
152	10.761	10.736	10.794	VV	649	10712	0.21%	0.012%
153	10.811	10.794	10.830	VV	455	6860	0.13%	0.007%
154	10.844	10.830	10.859	VV	283	3578	0.07%	0.004%
155	10.895	10.859	10.937	VV	3668	44065	0.85%	0.048%
156	10.947	10.937	10.963	PV	96	1107	0.02%	0.001%
157	10.976	10.963	10.996	VV	89	1303	0.03%	0.001%
158	11.023	10.996	11.054	VV	1875	24622	0.48%	0.027%
159	11.094	11.054	11.171	VV	432578	5073932	97.98%	5.504%
160	11.185	11.171	11.274	VV	738	16970	0.33%	0.018%
161	11.319	11.274	11.359	VV	187	5013	0.10%	0.005%
162	11.400	11.359	11.428	VV	283	7366	0.14%	0.008%
163	11.443	11.428	11.457	VV	280	3696	0.07%	0.004%
164	11.478	11.457	11.511	VV	434	9039	0.17%	0.010%
165	11.551	11.511	11.594	VV	392	12553	0.24%	0.014%
166	11.655	11.594	11.668	VV	254	6455	0.12%	0.007%
167	11.753	11.668	11.781	VV	623	24396	0.47%	0.026%
168	11.806	11.781	11.843	VV	388	9161	0.18%	0.010%
169	11.860	11.843	11.871	VV	227	2746	0.05%	0.003%
170	11.892	11.871	11.911	VV	415	6647	0.13%	0.007%
171	11.915	11.911	11.944	VV	405	4789	0.09%	0.005%
172	11.975	11.944	12.011	VV	654	15711	0.30%	0.017%
173	12.050	12.011	12.081	VV	429	9974	0.19%	0.011%
174	12.094	12.081	12.128	VV	269	5215	0.10%	0.006%
175	12.223	12.128	12.242	VV	1889	39283	0.76%	0.043%
176	12.260	12.242	12.291	VV	1375	20619	0.40%	0.022%
177	12.338	12.291	12.361	VV	1548	21414	0.41%	0.023%
178	12.401	12.361	12.525	VV	430831	5178431	100.00%	5.618%
179	12.533	12.525	12.581	VV	195	3696	0.07%	0.004%
180	12.590	12.581	12.604	VV	95	763	0.01%	0.001%
181	12.612	12.604	12.630	VV	73	707	0.01%	0.001%
182	12.677	12.630	12.701	VV	226	5793	0.11%	0.006%
183	12.715	12.701	12.738	VV	160	2199	0.04%	0.002%
184	12.772	12.738	12.784	VV	216	4196	0.08%	0.005%
185	12.840	12.784	12.931	VV	326171	3932567	75.94%	4.266%
186	12.954	12.931	12.970	VV	449	8575	0.17%	0.009%
187	13.012	12.970	13.103	VV	397637	4967083	95.92%	5.388%
188	13.123	13.103	13.178	VV	401	11499	0.22%	0.012%
189	13.222	13.178	13.240	VV	331	10025	0.19%	0.011%
190	13.277	13.240	13.331	VV	423	14984	0.29%	0.016%
191	13.354	13.331	13.366	VV	199	3744	0.07%	0.004%
192	13.386	13.366	13.410	VV	535	8557	0.17%	0.009%
193	13.436	13.410	13.508	VV	817	18822	0.36%	0.020%
194	13.541	13.508	13.559	VV	1470	21374	0.41%	0.023%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

rteres

195	13.596	13.559	13.704	VV	402601	4954203	95.67%	5.374%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

196	13.720	13.704	13.757	VV	193	3714		
197	13.772	13.757	13.784	VV	103	1180		
198	13.790	13.784	13.834	VV	146	3075		
199	13.850	13.834	13.875	VV	172	2444		
200	13.891	13.875	13.908	VV	109	1703		
201	13.919	13.908	13.944	VV	117	2177	0.04%	0.002%
202	13.955	13.944	13.965	VV	143	1310	0.03%	0.001%
203	13.976	13.965	13.993	VV	141	1582	0.03%	0.002%
204	14.030	13.993	14.075	VV	1149	20408	0.39%	0.022%
205	14.086	14.075	14.136	VV	195	6418	0.12%	0.007%
206	14.154	14.136	14.192	VV	356	7473	0.14%	0.008%
207	14.232	14.192	14.241	VV	233	5198	0.10%	0.006%
208	14.279	14.241	14.291	VV	222	6024	0.12%	0.007%
209	14.302	14.291	14.393	VV	257	11155	0.22%	0.012%
210	14.468	14.393	14.486	VV	302	11162	0.22%	0.012%
211	14.499	14.486	14.548	VV	315	7750	0.15%	0.008%
212	14.552	14.548	14.601	VV	274	4357	0.08%	0.005%
213	14.650	14.601	14.660	PV	1467	19318	0.37%	0.021%
214	14.698	14.660	14.831	VV	373348	4865463	93.96%	5.278%
215	14.868	14.831	14.908	VV	350	9188	0.18%	0.010%
216	14.915	14.908	14.964	VV	155	4070	0.08%	0.004%
217	14.976	14.964	15.031	VV	147	3386	0.07%	0.004%
218	15.097	15.031	15.114	VV	189	4881	0.09%	0.005%
219	15.174	15.114	15.183	VV	155	4575	0.09%	0.005%
220	15.215	15.183	15.281	VV	747	15252	0.29%	0.017%
221	15.306	15.281	15.341	PV	144	3855	0.07%	0.004%
222	15.350	15.341	15.376	VV	189	2739	0.05%	0.003%
223	15.410	15.376	15.431	VV	216	5188	0.10%	0.006%
224	15.454	15.431	15.478	VV	141	3349	0.06%	0.004%
225	15.565	15.478	15.628	VV	238	14551	0.28%	0.016%
226	15.717	15.628	15.815	VV	358885	4786311	92.43%	5.192%
227	15.825	15.815	15.858	VV	177	3192	0.06%	0.003%
228	15.877	15.858	15.990	VV	149	6220	0.12%	0.007%
229	16.043	15.990	16.073	PV	181	3163	0.06%	0.003%
230	16.091	16.073	16.108	VV	109	1417	0.03%	0.002%
231	16.126	16.108	16.138	PV	106	1344	0.03%	0.001%
232	16.159	16.138	16.171	VV	192	2599	0.05%	0.003%
233	16.196	16.171	16.281	VV	1178	20080	0.39%	0.022%
234	16.284	16.281	16.299	VV	141	726	0.01%	0.001%
235	16.409	16.299	16.458	VV	179	8678	0.17%	0.009%
236	16.468	16.458	16.476	PV	78	585	0.01%	0.001%
237	16.544	16.476	16.588	VV	495	14701	0.28%	0.016%
238	16.665	16.588	16.735	VV	351066	4686952	90.51%	5.084%
239	16.744	16.735	16.784	VV	257	5595	0.11%	0.006%
240	16.817	16.784	16.881	VV	155	4768	0.09%	0.005%
241	16.914	16.881	16.924	PV	70	1173	0.02%	0.001%
242	16.958	16.924	16.990	VV	120	2410	0.05%	0.003%
243	16.999	16.990	17.048	VV	93	773	0.01%	0.001%
244	17.113	17.048	17.172	VV	1166	19684	0.38%	0.021%
245	17.223	17.172	17.238	VV	91	2457	0.05%	0.003%
246	17.268	17.238	17.286	PV	108	1301	0.03%	0.001%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

247	17.343	17.286	17.371	VV	162	4292	0.08%	0.005%
248	17.381	17.371	17.388	PV	55	373		
249	17.439	17.388	17.480	VV	3302	51194		
250	17.552	17.480	17.614	VV	341017	4668286	9	
251	17.625	17.614	17.651	VV	228	4143		
252	17.709	17.651	17.724	VV	173	4751		
253	17.740	17.724	17.750	VV	121	936	0.02%	0.001%
254	17.762	17.750	17.783	PV	97	893	0.02%	0.001%
255	17.829	17.783	17.838	VV	216	3311	0.06%	0.004%
256	17.848	17.838	17.886	VV	178	2932	0.06%	0.003%
257	17.901	17.886	17.917	PV	93	1095	0.02%	0.001%
258	17.970	17.917	18.038	PV	1469	22722	0.44%	0.025%
259	18.238	18.038	18.256	PV	227	7492	0.14%	0.008%
260	18.276	18.256	18.314	VV	223	4206	0.08%	0.005%
261	18.382	18.314	18.494	VV	313029	4486901	86.65%	4.867%
262	18.503	18.494	18.515	VV	106	1077	0.02%	0.001%
263	18.554	18.515	18.595	VV	173	4566	0.09%	0.005%
264	18.644	18.595	18.664	PV	113	4418	0.09%	0.005%
265	18.689	18.664	18.701	VV	124	1503	0.03%	0.002%
266	18.776	18.701	18.848	PV	1786	32216	0.62%	0.035%
267	18.915	18.848	18.924	VV	154	4087	0.08%	0.004%
268	18.952	18.924	18.968	VV	278	3940	0.08%	0.004%
269	18.974	18.968	18.993	VV	113	1495	0.03%	0.002%
270	19.166	18.993	19.238	VV	275616	4233274	81.75%	4.592%
271	19.248	19.238	19.271	VV	521	8838	0.17%	0.010%
272	19.280	19.271	19.298	VV	390	5119	0.10%	0.006%
273	19.318	19.298	19.341	VV	511	10296	0.20%	0.011%
274	19.473	19.341	19.499	VV	1426	82942	1.60%	0.090%
275	19.538	19.499	19.576	VV	1935	58998	1.14%	0.064%
276	19.589	19.576	19.627	VV	877	23640	0.46%	0.026%
277	19.718	19.627	19.737	VV	995	52925	1.02%	0.057%
278	19.804	19.737	19.828	VV	1950	71001	1.37%	0.077%
279	19.904	19.828	19.950	VV	262249	3948972	76.26%	4.284%
280	19.961	19.950	20.013	VV	1707	61002	1.18%	0.066%
281	20.257	20.013	20.294	VV	2678	289164	5.58%	0.314%
282	20.433	20.294	20.468	VV	2779	230459	4.45%	0.250%
283	20.616	20.468	20.689	VV	224161	4037873	77.97%	4.380%
284	20.718	20.689	20.736	VV	3114	86774	1.68%	0.094%
285	20.777	20.736	20.890	VV	2963	258321	4.99%	0.280%
286	20.902	20.890	20.918	VV	2688	43935	0.85%	0.048%
287	20.954	20.918	20.981	VV	2680	97561	1.88%	0.106%
288	21.015	20.981	21.061	VV	2903	124092	2.40%	0.135%
289	21.122	21.061	21.153	VV	2311	125468	2.42%	0.136%
290	21.181	21.153	21.204	VV	2196	67281	1.30%	0.073%
291	21.265	21.204	21.304	VV	2085	123953	2.39%	0.134%
292	21.348	21.304	21.387	VV	1997	95000	1.83%	0.103%
293	21.472	21.387	21.711	VV	158612	3834078	74.04%	4.159%
294	21.723	21.711	21.774	VV	1307	46971	0.91%	0.051%
295	21.783	21.774	21.848	VV	1227	45738	0.88%	0.050%
296	21.862	21.848	21.931	VV	920	41007	0.79%	0.044%
297	21.991	21.931	22.219	VV	794	72030	1.39%	0.078%

Sum of corrected areas: 92183135

rteres

Aliphatic EPH 021125.M Fri Feb 28 01:14:34 2025

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	02/24/25	
Project:	RFP 905		Date Received:	02/24/25	
Client Sample ID:	P001-CLAY-CF01-01MS		SDG No.:	Q1421	
Lab Sample ID:	Q1421-05		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
FD049121.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	188		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	304		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	542		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	888		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.8		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.7		40 - 140	107%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.3		40 - 140	91%	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:	Q1421-05	Acq On:	27 Feb 2025 14:03
Client Sample ID:	P001-CLAY-CF01-01MS	Operator:	YP/AJ
Data file:	FD049121.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	14983565	94.224	200	ug/ml
Aromatic C12-C16	5.795	8.397	24474718	152.077	300	ug/ml
Aromatic C16-C21	8.398	12.661	41596172	271.233	500	ug/ml
Aromatic C21-C36	12.662	18.071	63583513	444.283	800	ug/ml
Aromatic EPH	4.076	18.071	144637968	961.818		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	7562187	52.84		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	4724292	53.74		ug/ml
ortho-Terphenyl (SURR)	11.238	11.238	7326185	45.29		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049121.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1421-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Feb 28 01:27:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	7562187	52.842 ug/ml
Spiked Amount	50.000		Recovery =	105.68%
6) S	2-Flurobiphenyl (SURR)	8.203	4724292	53.739 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	107.48%
11) S	ortho-Terphenyl (SURR)	11.238	7326185	45.286 ug/ml
Spiked Amount	50.000		Recovery =	90.57%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.179	6576701	41.297 ug/ml
2) T	Naphthalene (C11.7)	5.694	6945799	43.743 ug/ml
3) T	2-Methylnaphthalene (...	6.739	6668008	42.828 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	7237623	44.510 ug/ml
7) T	Acenaphthene (C15.5)	8.300	7717519	46.913 ug/ml
8) T	Flouorene (C16.55)	9.078	7323644	46.455 ug/ml
9) T	Phenanthrene (C19.36)	10.466	7113700	47.204 ug/ml
10) T	Anthracene (C19.43)	10.542	7082565	46.896 ug/ml
12) T	Fluoranthene (C21.85)	12.270	7159819	46.397 ug/ml
13) T	Pyrene (C20.8)	12.564	7060627	45.831 ug/ml
14) T	Benzo[a]anthracene (C...	14.435	6445076	49.053 ug/ml
15) T	Chrysene (C27.41)	14.476	6362968	39.354 ug/ml
16) T	benzo[b]fluoranthene ...	15.985	6392023	46.456 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.017	6501603	41.164 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.359	6186282	45.576 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	5704377	52.201 ug/ml
20) T	Dibenz[a,h]anthracene...	17.762	6408761	41.310 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.977	6190558	42.708 ug/ml

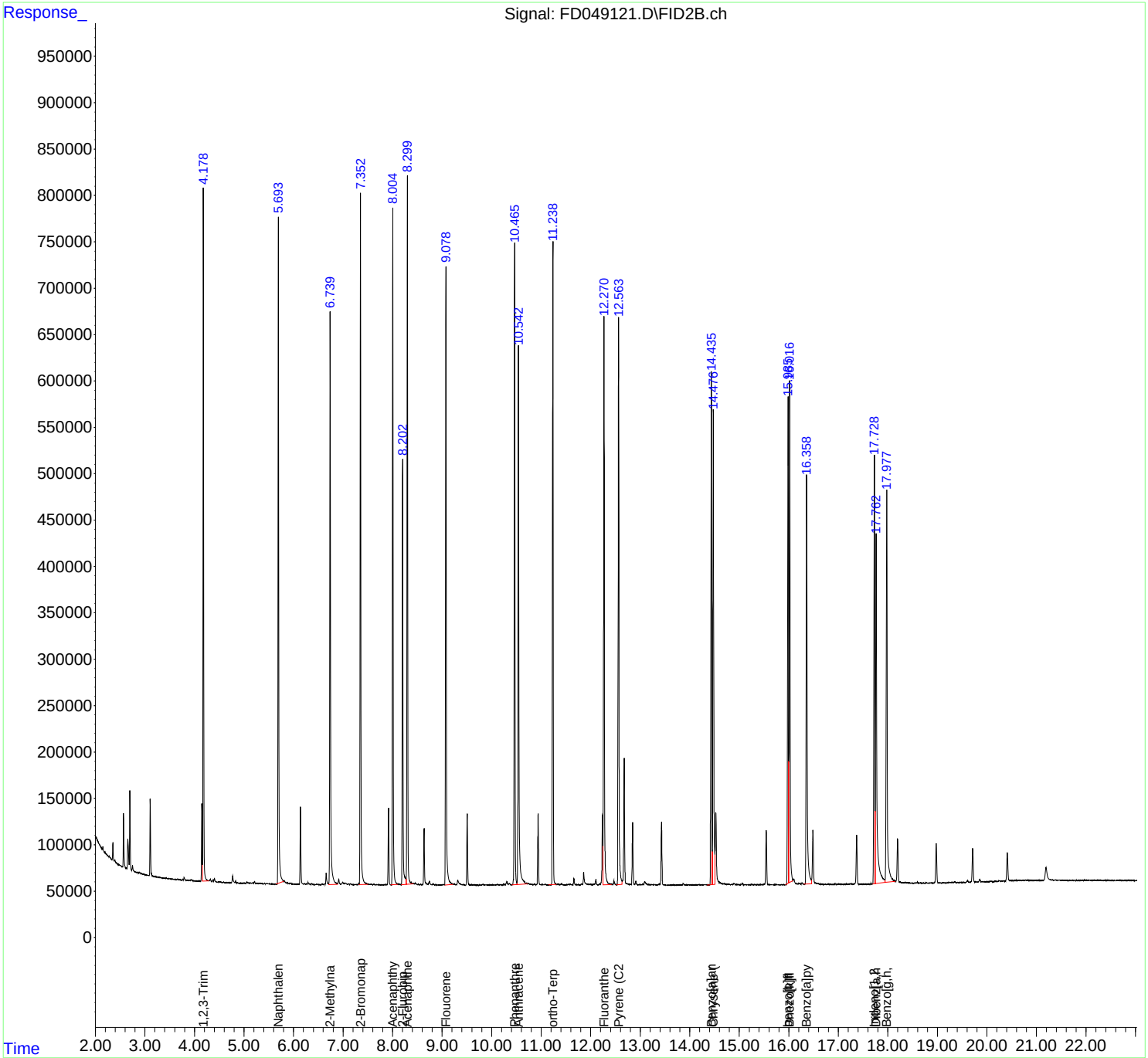
(f)=RT Delta > 1/2 Window (m)=manual int.

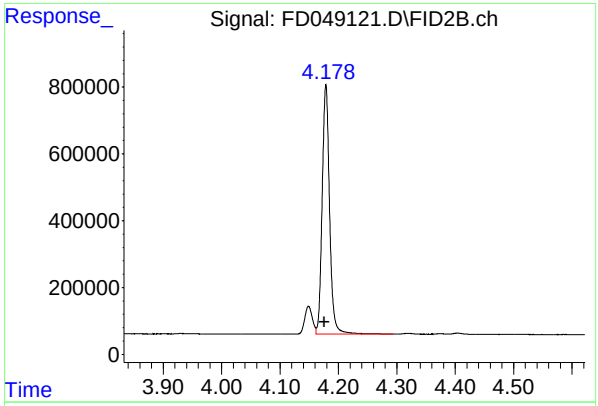
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049121.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 14:03
Operator : YP/AJ
Sample : Q1421-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Integration File: autoint1.e
Quant Time: Feb 28 01:27:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

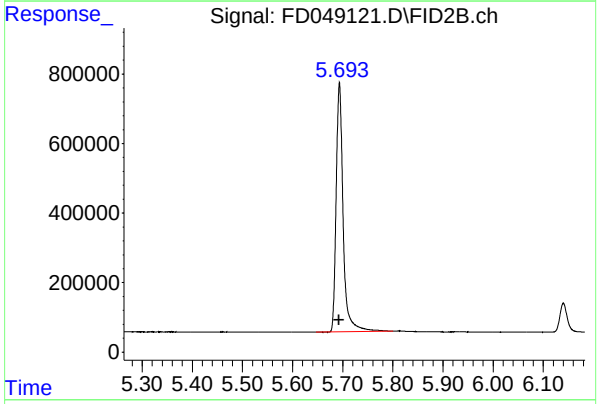




#1 1,2,3-Trimethylbenzene (C10.1)

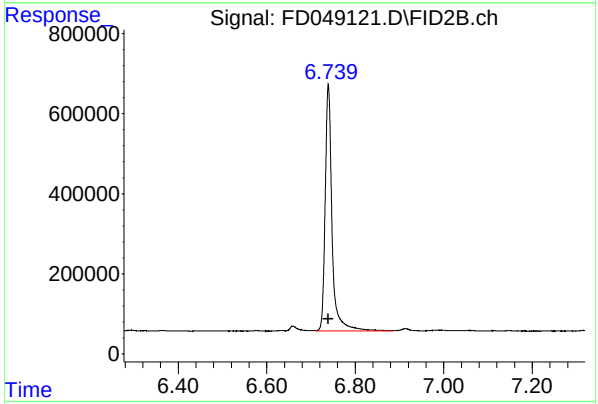
R.T.: 4.179 min
Delta R.T.: 0.003 min
Response: 6576701
Conc: 41.30 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



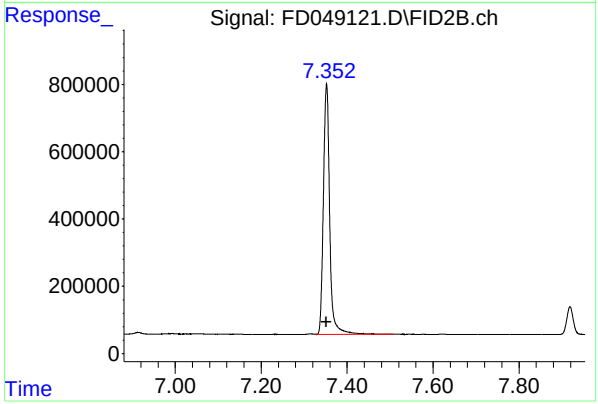
#2 Naphthalene (C11.7)

R.T.: 5.694 min
Delta R.T.: 0.000 min
Response: 6945799
Conc: 43.74 ug/ml



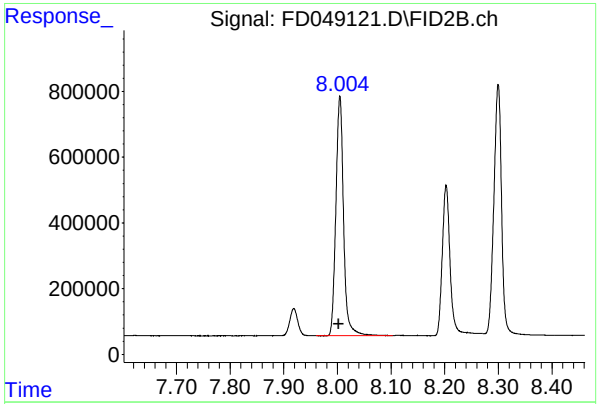
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 6668008
Conc: 42.83 ug/ml



#4 2-Bromonaphthalene (SURR)

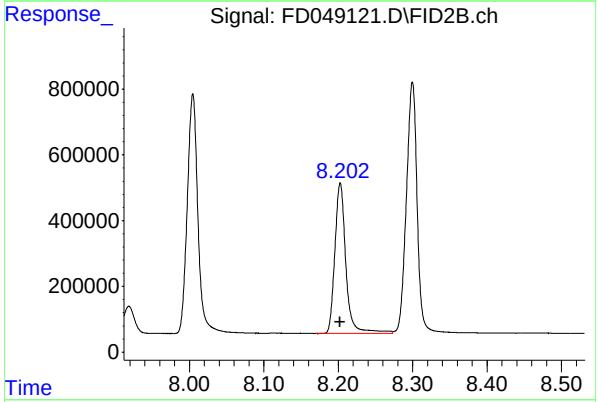
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 7562187
Conc: 52.84 ug/ml



#5 Acenaphthylene (C15.06)

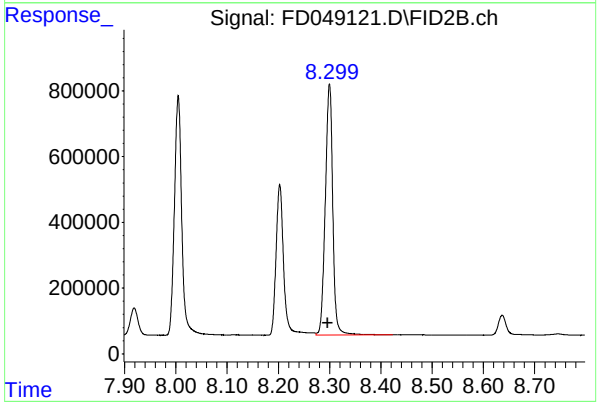
R.T.: 8.005 min
Delta R.T.: 0.002 min
Response: 7237623
Conc: 44.51 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



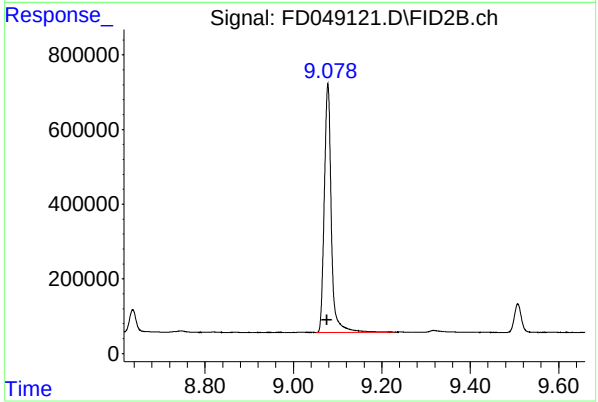
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 4724292
Conc: 53.74 ug/ml



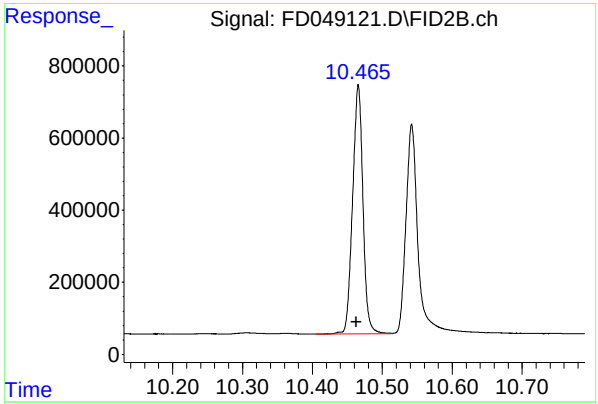
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.004 min
Response: 7717519
Conc: 46.91 ug/ml



#8 Flouorene (C16.55)

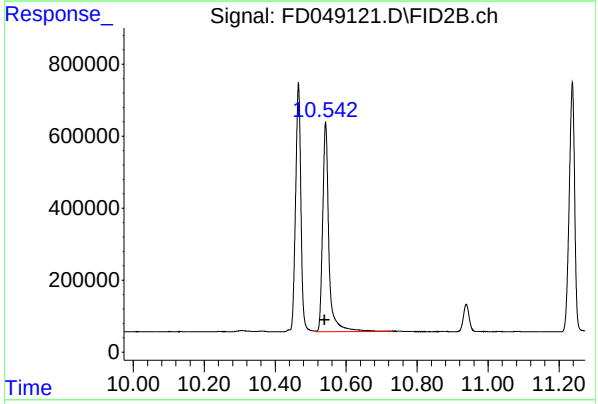
R.T.: 9.078 min
Delta R.T.: 0.002 min
Response: 7323644
Conc: 46.46 ug/ml



#9 Phenanthrene (C19.36)

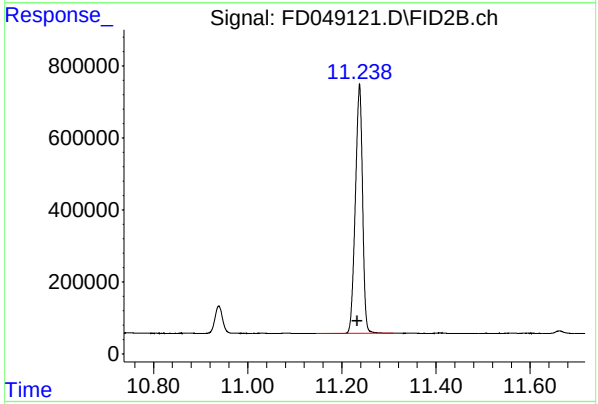
R.T.: 10.466 min
Delta R.T.: 0.003 min
Response: 7113700
Conc: 47.20 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



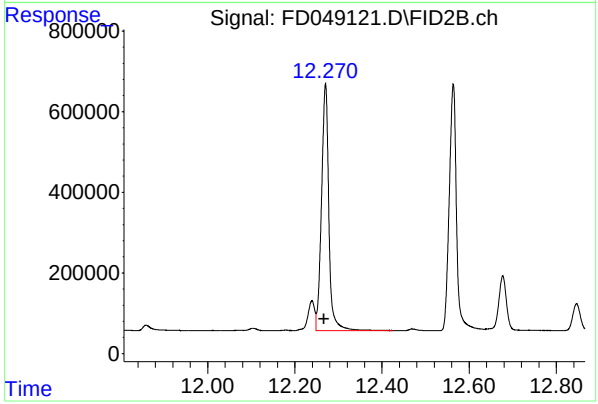
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.003 min
Response: 7082565
Conc: 46.90 ug/ml



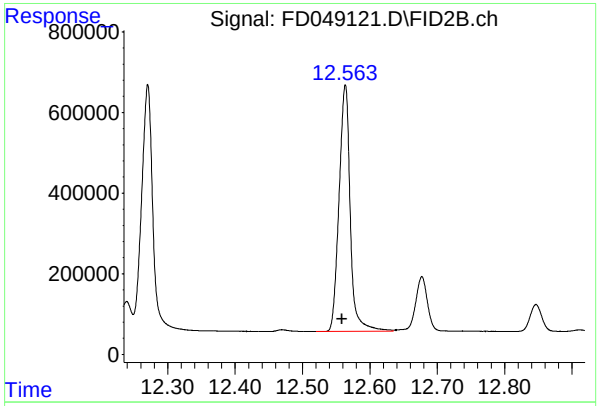
#11 ortho-Terphenyl (SURR)

R.T.: 11.238 min
Delta R.T.: 0.004 min
Response: 7326185
Conc: 45.29 ug/ml



#12 Fluoranthene (C21.85)

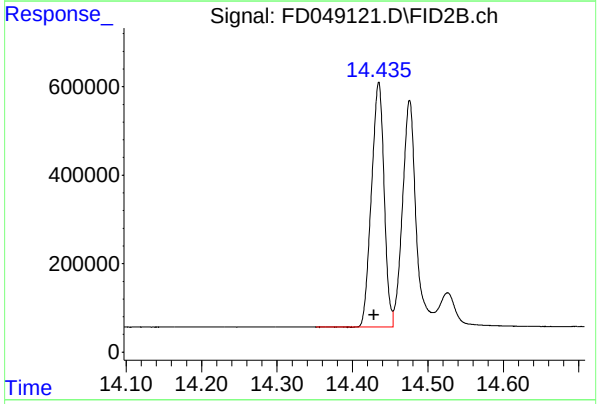
R.T.: 12.270 min
Delta R.T.: 0.003 min
Response: 7159819
Conc: 46.40 ug/ml



#13 Pyrene (C20.8)

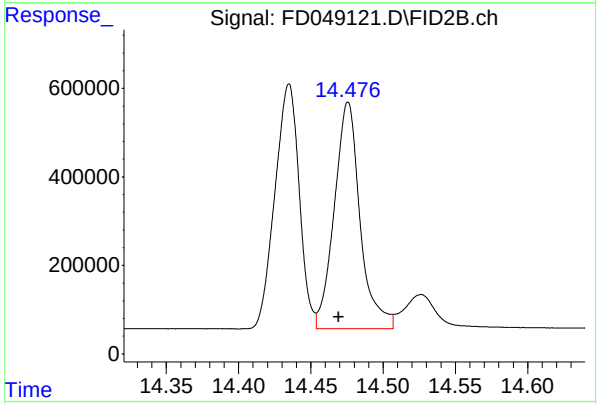
R.T.: 12.564 min
Delta R.T.: 0.005 min
Response: 7060627
Conc: 45.83 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



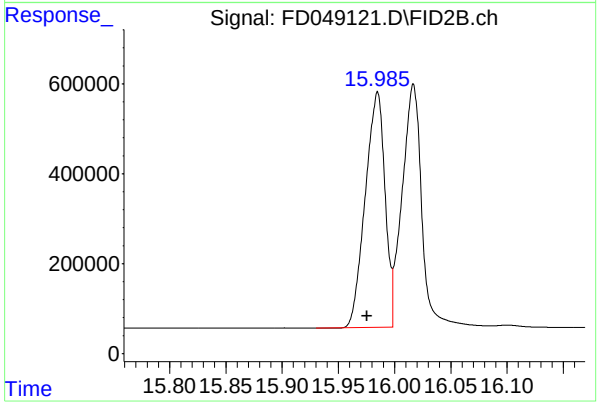
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.435 min
Delta R.T.: 0.006 min
Response: 6445076
Conc: 49.05 ug/ml



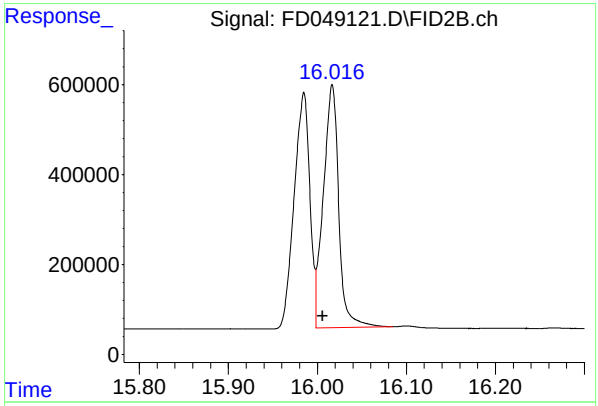
#15 Chrysene (C27.41)

R.T.: 14.476 min
Delta R.T.: 0.006 min
Response: 6362968
Conc: 39.35 ug/ml



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

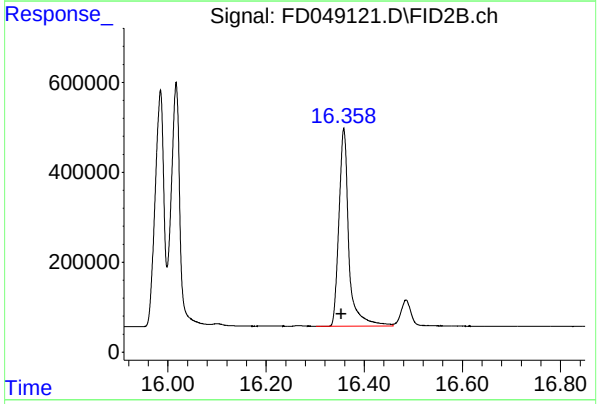
R.T.: 15.985 min
Delta R.T.: 0.009 min
Response: 6392023
Conc: 46.46 ug/ml



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

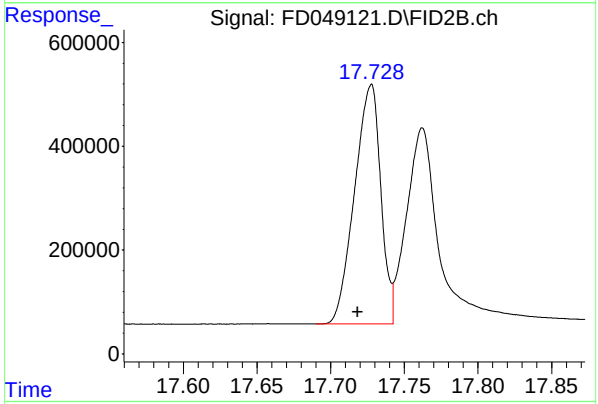
R.T.: 16.017 min
Delta R.T.: 0.011 min
Response: 6501603
Conc: 41.16 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS



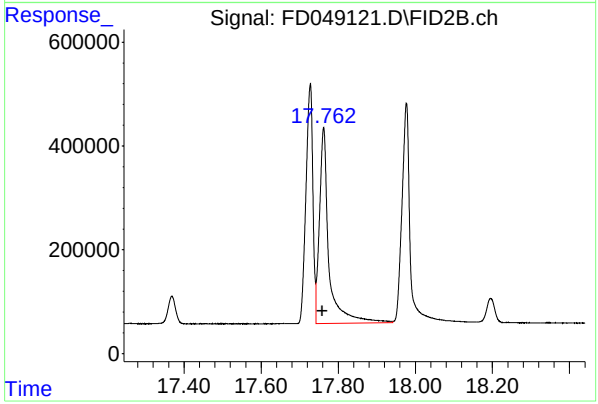
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.359 min
Delta R.T.: 0.005 min
Response: 6186282
Conc: 45.58 ug/ml



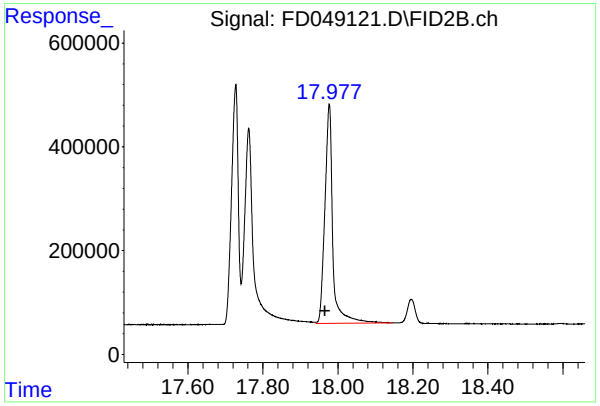
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.728 min
Delta R.T.: 0.009 min
Response: 5704377
Conc: 52.20 ug/ml



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

R.T.: 17.762 min
Delta R.T.: 0.003 min
Response: 6408761
Conc: 41.31 ug/ml



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

R.T.: 17.977 min
Delta R.T.: 0.011 mi
Response: 6190558
Conc: 42.71 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MS

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049121.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 14:03
Sample : Q1421-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.078	4.070	4.127	PV	190	3932	0.05%	0.002%
2	4.149	4.127	4.162	VV	83729	759451	9.74%	0.459%
3	4.179	4.162	4.290	VV	746622	6621417	84.91%	4.001%
4	4.296	4.290	4.302	VV	1160	7087	0.09%	0.004%
5	4.319	4.302	4.356	VV	3191	47764	0.61%	0.029%
6	4.374	4.356	4.387	VV	2337	26185	0.34%	0.016%
7	4.404	4.387	4.454	VV	3984	54897	0.70%	0.033%
8	4.460	4.454	4.475	VV	264	2377	0.03%	0.001%
9	4.490	4.475	4.502	VV	817	7875	0.10%	0.005%
10	4.511	4.502	4.540	VV	688	9292	0.12%	0.006%
11	4.548	4.540	4.561	VV	330	1885	0.02%	0.001%
12	4.585	4.561	4.612	VV	483	8362	0.11%	0.005%
13	4.614	4.612	4.636	VV	235	1639	0.02%	0.001%
14	4.644	4.636	4.663	VV	265	1821	0.02%	0.001%
15	4.669	4.663	4.683	PV	245	1285	0.02%	0.001%
16	4.694	4.683	4.710	VV	466	4197	0.05%	0.003%
17	4.716	4.710	4.723	VV	318	1296	0.02%	0.001%
18	4.731	4.723	4.742	VV	230	1964	0.03%	0.001%
19	4.771	4.742	4.813	VV	7891	111877	1.43%	0.068%
20	4.829	4.813	4.887	VV	1784	25973	0.33%	0.016%
21	4.889	4.887	4.905	VV	233	1096	0.01%	0.001%
22	4.911	4.905	4.948	VV	264	3755	0.05%	0.002%
23	4.964	4.948	4.993	VV	370	7103	0.09%	0.004%
24	4.999	4.993	5.005	VV	297	1799	0.02%	0.001%
25	5.010	5.005	5.036	VV	389	2729	0.03%	0.002%
26	5.060	5.036	5.117	PV	1390	34750	0.45%	0.021%
27	5.118	5.117	5.124	VV	495	1935	0.02%	0.001%
28	5.133	5.124	5.161	VV	529	9469	0.12%	0.006%
29	5.179	5.161	5.196	VV	1433	18876	0.24%	0.011%
30	5.213	5.196	5.237	VV	2639	32279	0.41%	0.020%
31	5.249	5.237	5.255	VV	551	4939	0.06%	0.003%
32	5.269	5.255	5.295	VV	785	12482	0.16%	0.008%
33	5.300	5.295	5.308	VV	417	2329	0.03%	0.001%
34	5.316	5.308	5.328	VV	429	4047	0.05%	0.002%
35	5.332	5.328	5.345	VV	484	3825	0.05%	0.002%
36	5.353	5.345	5.359	VV	527	3362	0.04%	0.002%

rteres

37	5.362	5.359	5.397	VV	430	5193	0.07%	0.003%
38	5.417	5.397	5.445	VV	301	4841	0.06%	0.003%
39	5.461	5.445	5.496	VV	549	9975	0.13%	0.006%
40	5.514	5.496	5.563	VV	411	10550	0.14%	0.006%
41	5.568	5.563	5.604	VV	276	4141	0.05%	0.003%
42	5.627	5.615	5.647	VV	379	3827	0.05%	0.002%
43	5.656	5.647	5.669	VV	229	1260	0.02%	0.001%
44	5.694	5.669	5.800	PV	717979	7098427	91.03%	4.290%
45	5.813	5.800	5.860	VV	3733	92495	1.19%	0.056%
46	5.868	5.860	5.906	VV	1770	37900	0.49%	0.023%
47	5.934	5.906	5.980	VV	1373	40363	0.52%	0.024%
48	5.986	5.980	5.997	VV	712	4612	0.06%	0.003%
49	6.004	5.997	6.015	VV	553	4575	0.06%	0.003%
50	6.020	6.015	6.053	VV	480	8561	0.11%	0.005%
51	6.072	6.053	6.099	VV	535	12047	0.15%	0.007%
52	6.109	6.099	6.113	VV	428	3145	0.04%	0.002%
53	6.140	6.113	6.202	VV	83861	872717	11.19%	0.527%
54	6.223	6.202	6.245	VV	1433	22047	0.28%	0.013%
55	6.262	6.245	6.276	VV	972	12488	0.16%	0.008%
56	6.293	6.276	6.311	VV	2287	28768	0.37%	0.017%
57	6.325	6.311	6.345	VV	924	12783	0.16%	0.008%
58	6.363	6.345	6.432	VV	1355	25399	0.33%	0.015%
59	6.442	6.432	6.462	PV	274	3981	0.05%	0.002%
60	6.476	6.462	6.480	VV	385	3305	0.04%	0.002%
61	6.484	6.480	6.488	VV	383	1243	0.02%	0.001%
62	6.494	6.488	6.533	VV	294	6207	0.08%	0.004%
63	6.537	6.533	6.546	VV	203	1331	0.02%	0.001%
64	6.551	6.546	6.558	VV	311	1291	0.02%	0.001%
65	6.578	6.558	6.608	VV	1332	15368	0.20%	0.009%
66	6.635	6.608	6.643	VV	1272	14820	0.19%	0.009%
67	6.659	6.643	6.695	VV	12677	156794	2.01%	0.095%
68	6.707	6.695	6.711	VV	1406	12583	0.16%	0.008%
69	6.739	6.711	6.885	VV	615266	6713022	86.08%	4.057%
70	6.914	6.885	6.949	VV	6192	99575	1.28%	0.060%
71	6.992	6.949	7.015	VV	2573	67569	0.87%	0.041%
72	7.024	7.015	7.037	VV	1508	19268	0.25%	0.012%
73	7.058	7.037	7.088	VV	1926	40884	0.52%	0.025%
74	7.091	7.088	7.098	VV	731	3851	0.05%	0.002%
75	7.115	7.098	7.131	VV	1202	16624	0.21%	0.010%
76	7.146	7.131	7.194	VV	1276	22037	0.28%	0.013%
77	7.201	7.194	7.205	VV	341	1812	0.02%	0.001%
78	7.210	7.205	7.218	VV	241	2143	0.03%	0.001%
79	7.232	7.218	7.247	VV	709	7816	0.10%	0.005%
80	7.261	7.247	7.267	VV	461	4308	0.06%	0.003%
81	7.281	7.267	7.298	VV	441	6679	0.09%	0.004%
82	7.315	7.298	7.328	VV	1876	19374	0.25%	0.012%
83	7.352	7.328	7.520	VV	744620	7635238	97.91%	4.614%
84	7.521	7.520	7.537	VV	846	6982	0.09%	0.004%
85	7.545	7.537	7.568	VV	791	11545	0.15%	0.007%
86	7.577	7.568	7.598	VV	729	9313	0.12%	0.006%
87	7.602	7.598	7.608	VV	354	2064	0.03%	0.001%
88	7.622	7.608	7.667	VV	1171	15686	0.20%	0.009%
89	7.675	7.667	7.690	VV	317	3535	0.05%	0.002%

rteres

90	7.710	7.690	7.727	VV	449	7191	0.09%	0.004%
91	7.800	7.774	7.817	PV	350	3838	0.05%	0.002%
92	7.835	7.817	7.848	VV	395	3623	0.05%	0.002%
93	7.865	7.848	7.880	PV	640	7914	0.10%	0.005%
94	7.919	7.880	7.978	VV	83119	867363	11.12%	0.524%
95	8.005	7.978	8.103	VV	730274	7282460	93.38%	4.401%
96	8.115	8.103	8.137	VV	1351	20843	0.27%	0.013%
97	8.149	8.137	8.174	VV	1095	14250	0.18%	0.009%
98	8.203	8.174	8.273	VV	458324	4753194	60.95%	2.872%
99	8.300	8.273	8.405	VV	765533	7798326	100.00%	4.713%
100	8.410	8.405	8.423	VV	1718	18022	0.23%	0.011%
101	8.428	8.423	8.439	VV	1620	13364	0.17%	0.008%
102	8.461	8.439	8.502	VV	2075	53331	0.68%	0.032%
103	8.516	8.502	8.531	VV	1006	13875	0.18%	0.008%
104	8.537	8.531	8.552	VV	677	6483	0.08%	0.004%
105	8.564	8.552	8.591	VV	796	14992	0.19%	0.009%
106	8.597	8.591	8.609	VV	513	4841	0.06%	0.003%
107	8.637	8.609	8.709	VV	61243	697581	8.95%	0.422%
108	8.746	8.709	8.790	VV	4353	88343	1.13%	0.053%
109	8.819	8.790	8.854	VV	1294	26125	0.34%	0.016%
110	8.870	8.854	8.893	VV	675	8038	0.10%	0.005%
111	8.901	8.893	8.915	VV	318	2399	0.03%	0.001%
112	8.920	8.915	8.935	VV	385	3020	0.04%	0.002%
113	8.945	8.935	8.957	VV	450	4199	0.05%	0.003%
114	8.973	8.957	8.995	VV	369	6178	0.08%	0.004%
115	9.021	8.995	9.032	VV	650	9775	0.13%	0.006%
116	9.044	9.032	9.051	VV	532	5005	0.06%	0.003%
117	9.078	9.051	9.227	VV	667164	7394897	94.83%	4.469%
118	9.241	9.227	9.270	VV	1464	30479	0.39%	0.018%
119	9.275	9.270	9.284	VV	954	6777	0.09%	0.004%
120	9.317	9.284	9.392	VV	5623	142395	1.83%	0.086%
121	9.394	9.392	9.423	VV	820	12458	0.16%	0.008%
122	9.434	9.423	9.462	VV	762	12577	0.16%	0.008%
123	9.468	9.462	9.475	VV	324	1973	0.03%	0.001%
124	9.508	9.475	9.562	VV	77174	852302	10.93%	0.515%
125	9.588	9.562	9.613	VV	797	15565	0.20%	0.009%
126	9.619	9.613	9.628	VV	484	3588	0.05%	0.002%
127	9.651	9.628	9.676	VV	523	10417	0.13%	0.006%
128	9.684	9.676	9.707	VV	361	3495	0.04%	0.002%
129	9.712	9.707	9.735	VV	185	1429	0.02%	0.001%
130	9.752	9.735	9.771	PV	451	4227	0.05%	0.003%
131	9.783	9.771	9.798	VV	363	4402	0.06%	0.003%
132	9.822	9.798	9.849	VV	1241	20493	0.26%	0.012%
133	9.881	9.849	9.887	VV	641	10340	0.13%	0.006%
134	9.903	9.887	9.917	VV	641	8274	0.11%	0.005%
135	9.930	9.917	9.953	VV	654	9097	0.12%	0.005%
136	9.962	9.953	9.983	VV	472	7390	0.09%	0.004%
137	9.987	9.983	9.996	VV	490	3274	0.04%	0.002%
138	10.011	9.996	10.027	VV	1007	11312	0.15%	0.007%
139	10.046	10.027	10.058	VV	474	6574	0.08%	0.004%
140	10.072	10.058	10.078	VV	439	4614	0.06%	0.003%
141	10.104	10.078	10.117	VV	1039	14925	0.19%	0.009%

rteres

142	10.133	10.117	10.161	VV	1079	17149	0.22%	0.010%
143	10.180	10.161	10.206	VV	888	15882	0.20%	0.010%
144	10.247	10.206	10.279	VV	1214	31829	0.41%	0.019%
145	10.306	10.279	10.341	VV	3723	83164	1.07%	0.050%
146	10.365	10.341	10.385	VV	2251	39640	0.51%	0.024%
147	10.391	10.385	10.394	VV	668	3026	0.04%	0.002%
148	10.466	10.394	10.515	VV	691922	7166205	91.89%	4.331%
149	10.542	10.515	10.732	VV	582163	7259492	93.09%	4.387%
150	10.736	10.732	10.739	VV	1956	7904	0.10%	0.005%
151	10.746	10.739	10.798	VV	2141	54593	0.70%	0.033%
152	10.803	10.798	10.818	VV	1121	11958	0.15%	0.007%
153	10.823	10.818	10.852	VV	1082	19459	0.25%	0.012%
154	10.873	10.852	10.903	VV	1631	33867	0.43%	0.020%
155	10.939	10.903	11.008	VV	77278	909338	11.66%	0.550%
156	11.013	11.008	11.020	VV	1118	6812	0.09%	0.004%
157	11.029	11.020	11.048	VV	1266	17322	0.22%	0.010%
158	11.053	11.048	11.066	VV	838	8176	0.10%	0.005%
159	11.082	11.066	11.110	VV	1662	27479	0.35%	0.017%
160	11.118	11.110	11.127	VV	706	6408	0.08%	0.004%
161	11.132	11.127	11.136	VV	692	3366	0.04%	0.002%
162	11.152	11.136	11.157	VV	687	8268	0.11%	0.005%
163	11.162	11.157	11.170	VV	748	4967	0.06%	0.003%
164	11.176	11.170	11.204	VV	846	12878	0.17%	0.008%
165	11.238	11.204	11.309	VV	696928	7397306	94.86%	4.470%
166	11.321	11.309	11.335	VV	1527	20868	0.27%	0.013%
167	11.349	11.335	11.368	VV	1442	24410	0.31%	0.015%
168	11.375	11.368	11.386	VV	1017	10032	0.13%	0.006%
169	11.409	11.386	11.441	VV	2161	41437	0.53%	0.025%
170	11.450	11.441	11.458	VV	789	7166	0.09%	0.004%
171	11.465	11.458	11.476	VV	744	6387	0.08%	0.004%
172	11.506	11.476	11.523	VV	1183	24282	0.31%	0.015%
173	11.536	11.523	11.545	VV	1110	13757	0.18%	0.008%
174	11.560	11.545	11.580	VV	1501	24915	0.32%	0.015%
175	11.595	11.580	11.615	VV	1271	24516	0.31%	0.015%
176	11.619	11.615	11.638	VV	1171	12558	0.16%	0.008%
177	11.662	11.638	11.695	VV	7751	108531	1.39%	0.066%
178	11.708	11.695	11.723	VV	981	14455	0.19%	0.009%
179	11.733	11.723	11.743	VV	976	10688	0.14%	0.006%
180	11.760	11.743	11.786	VV	1009	21138	0.27%	0.013%
181	11.817	11.786	11.838	VV	1877	41372	0.53%	0.025%
182	11.859	11.838	11.973	VV	14504	284342	3.65%	0.172%
183	11.978	11.973	11.988	VV	1291	11341	0.15%	0.007%
184	11.994	11.988	12.003	VV	1299	10349	0.13%	0.006%
185	12.012	12.003	12.040	VV	1404	25691	0.33%	0.016%
186	12.046	12.040	12.049	VV	1122	6294	0.08%	0.004%
187	12.075	12.049	12.081	VV	1679	26742	0.34%	0.016%
188	12.105	12.081	12.143	VV	6631	105159	1.35%	0.064%
189	12.146	12.143	12.151	VV	830	3577	0.05%	0.002%
190	12.179	12.151	12.198	VV	2266	39331	0.50%	0.024%
191	12.239	12.198	12.249	VV	75379	828232	10.62%	0.501%
192	12.270	12.249	12.412	VV	614354	7256968	93.06%	4.385%
193	12.416	12.412	12.430	VV	1649	14657	0.19%	0.009%
194	12.435	12.430	12.453	VV	1280	17234	0.22%	0.010%

rteres

195	12.470	12.453	12.528	VV	5339	98609	1.26%	0.060%
196	12.564	12.528	12.634	VV	613433	7143107	91.60%	4.317%
197	12.677	12.634	12.723	VV	137352	1752815	22.48%	1.059%
198	12.728	12.723	12.779	VV	2206	60254	0.77%	0.036%
199	12.785	12.779	12.804	VV	1406	20438	0.26%	0.012%
200	12.808	12.804	12.820	VV	1395	12447	0.16%	0.008%
201	12.847	12.820	12.888	VV	68262	848588	10.88%	0.513%
202	12.911	12.888	12.955	VV	5006	93933	1.20%	0.057%
203	12.961	12.955	12.967	VV	1169	7683	0.10%	0.005%
204	12.975	12.967	12.983	VV	1228	11116	0.14%	0.007%
205	12.988	12.983	12.996	VV	1224	8325	0.11%	0.005%
206	13.001	12.996	13.011	VV	1215	9690	0.12%	0.006%
207	13.019	13.011	13.025	VV	1134	8611	0.11%	0.005%
208	13.059	13.025	13.070	VV	1440	35202	0.45%	0.021%
209	13.090	13.070	13.170	VV	4551	136414	1.75%	0.082%
210	13.175	13.170	13.188	VV	1332	13852	0.18%	0.008%
211	13.192	13.188	13.212	VV	1305	16269	0.21%	0.010%
212	13.225	13.212	13.242	VV	1258	20553	0.26%	0.012%
213	13.246	13.242	13.249	VV	1111	4176	0.05%	0.003%
214	13.255	13.249	13.280	VV	1118	20821	0.27%	0.013%
215	13.290	13.280	13.297	VV	1088	10307	0.13%	0.006%
216	13.310	13.297	13.319	VV	1173	13868	0.18%	0.008%
217	13.380	13.319	13.399	VV	1903	56922	0.73%	0.034%
218	13.430	13.399	13.474	VV	68951	845927	10.85%	0.511%
219	13.487	13.474	13.509	VV	1110	20152	0.26%	0.012%
220	13.516	13.509	13.536	VV	835	12855	0.16%	0.008%
221	13.544	13.536	13.558	VV	825	9427	0.12%	0.006%
222	13.567	13.558	13.583	VV	808	10338	0.13%	0.006%
223	13.598	13.583	13.605	VV	898	9804	0.13%	0.006%
224	13.609	13.605	13.611	VV	746	2612	0.03%	0.002%
225	13.616	13.611	13.626	VV	983	7198	0.09%	0.004%
226	13.673	13.626	13.707	VV	1013	40150	0.51%	0.024%
227	13.717	13.707	13.733	VV	856	12147	0.16%	0.007%
228	13.765	13.733	13.818	VV	1024	44462	0.57%	0.027%
229	13.868	13.818	13.917	VV	2346	76335	0.98%	0.046%
230	13.925	13.917	13.935	VV	1026	10103	0.13%	0.006%
231	13.947	13.935	13.968	VV	1280	21227	0.27%	0.013%
232	13.983	13.968	14.022	VV	1318	32763	0.42%	0.020%
233	14.057	14.022	14.090	VV	1088	40406	0.52%	0.024%
234	14.094	14.090	14.120	VV	1073	18046	0.23%	0.011%
235	14.128	14.120	14.140	VV	1053	12043	0.15%	0.007%
236	14.161	14.140	14.173	VV	1176	22532	0.29%	0.014%
237	14.198	14.173	14.217	VV	1361	30944	0.40%	0.019%
238	14.237	14.217	14.247	VV	1189	19824	0.25%	0.012%
239	14.298	14.247	14.321	VV	1277	51345	0.66%	0.031%
240	14.334	14.321	14.350	VV	1471	20781	0.27%	0.013%
241	14.363	14.350	14.400	VV	1165	31211	0.40%	0.019%
242	14.435	14.400	14.454	VV	556516	6490725	83.23%	3.922%
243	14.476	14.454	14.507	VV	514505	6406829	82.16%	3.872%
244	14.526	14.507	14.679	VV	78849	1487801	19.08%	0.899%
245	14.696	14.679	14.775	VV	2504	110647	1.42%	0.067%
246	14.784	14.775	14.819	VV	1735	41164	0.53%	0.025%

rteres

247	14.843	14.819	14.867	VV	1856	43625	0.56%	0.026%
248	14.893	14.867	14.937	VV	2768	80668	1.03%	0.049%
249	14.948	14.937	14.991	VV	1609	47729	0.61%	0.029%
250	15.011	14.991	15.029	VV	1531	32155	0.41%	0.019%
251	15.062	15.029	15.117	VV	2973	92937	1.19%	0.056%
252	15.124	15.117	15.150	VV	1331	25108	0.32%	0.015%
253	15.180	15.150	15.222	VV	1467	59654	0.76%	0.036%
254	15.242	15.222	15.262	VV	1841	38471	0.49%	0.023%
255	15.282	15.262	15.316	VV	1471	44410	0.57%	0.027%
256	15.397	15.316	15.440	VV	1681	110524	1.42%	0.067%
257	15.464	15.440	15.476	VV	1502	31484	0.40%	0.019%
258	15.502	15.476	15.513	VV	2371	42031	0.54%	0.025%
259	15.543	15.513	15.640	VV	60226	859980	11.03%	0.520%
260	15.651	15.640	15.687	VV	1404	38412	0.49%	0.023%
261	15.704	15.687	15.723	VV	1535	31405	0.40%	0.019%
262	15.733	15.723	15.773	VV	1522	43503	0.56%	0.026%
263	15.798	15.773	15.820	VV	1561	39596	0.51%	0.024%
264	15.824	15.820	15.835	VV	1417	12025	0.15%	0.007%
265	15.847	15.835	15.868	VV	1500	27776	0.36%	0.017%
266	15.878	15.868	15.893	VV	1471	20775	0.27%	0.013%
267	15.904	15.893	15.927	VV	1606	28605	0.37%	0.017%
268	15.984	15.927	15.998	VV	530441	6490548	83.23%	3.922%
269	16.017	15.998	16.085	VV	545926	6748971	86.54%	4.078%
270	16.100	16.085	16.180	VV	7723	240606	3.09%	0.145%
271	16.195	16.180	16.246	VV	2698	100218	1.29%	0.061%
272	16.267	16.246	16.310	VV	3687	100112	1.28%	0.060%
273	16.358	16.310	16.458	VV	442599	6395119	82.01%	3.865%
274	16.485	16.458	16.661	VV	60697	1147244	14.71%	0.693%
275	16.678	16.661	16.728	VV	2223	81593	1.05%	0.049%
276	16.743	16.728	16.783	VV	2140	67223	0.86%	0.041%
277	16.791	16.783	16.825	VV	2097	50591	0.65%	0.031%
278	16.852	16.825	16.863	VV	2014	44544	0.57%	0.027%
279	16.868	16.863	16.877	VV	2019	15322	0.20%	0.009%
280	16.889	16.877	16.903	VV	2027	30643	0.39%	0.019%
281	16.937	16.903	16.962	VV	2800	79102	1.01%	0.048%
282	16.970	16.962	16.978	VV	2002	18983	0.24%	0.011%
283	17.003	16.978	17.028	VV	2134	61377	0.79%	0.037%
284	17.053	17.028	17.071	VV	2250	53558	0.69%	0.032%
285	17.080	17.071	17.113	VV	2089	51618	0.66%	0.031%
286	17.161	17.113	17.173	VV	2330	77711	1.00%	0.047%
287	17.183	17.173	17.206	VV	2323	43703	0.56%	0.026%
288	17.228	17.206	17.241	VV	2383	48611	0.62%	0.029%
289	17.259	17.241	17.295	VV	2953	78772	1.01%	0.048%
290	17.369	17.295	17.438	VV	55399	903606	11.59%	0.546%
291	17.456	17.438	17.542	VV	2327	140227	1.80%	0.085%
292	17.555	17.542	17.603	VV	2328	82727	1.06%	0.050%
293	17.623	17.603	17.634	VV	2309	42171	0.54%	0.025%
294	17.727	17.634	17.743	VV	461910	5887403	75.50%	3.558%
295	17.762	17.743	17.942	VV	380519	6815280	87.39%	4.119%
296	17.977	17.942	18.160	VV	428547	6832975	87.62%	4.129%
297	18.196	18.160	18.300	VBA	51141	1053602	13.51%	0.637%

Sum of corrected areas: 165477311

Aromatic EPH 021125.M Fri Feb 28 02:08:14 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FC068335.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	9.71		0.54	1.42	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	9.10		0.34	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.7		0.43	1.42	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	19.6		1.14	1.89	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.6		2.56	2.84	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

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FC068335.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	3.104	6.369	14461616	102.539	300	ug/ml
Aliphatic C12-C16	6.370	9.754	13124094	96.038	200	ug/ml
Aliphatic C16-C21	9.755	13.107	20440502	155.287	300	ug/ml
Aliphatic C21-C28	13.108	16.761	25406827	207.079	400	ug/ml
Aliphatic C28-C40	16.762	21.565	37555991	365.166	600	ug/ml
Aliphatic EPH	3.104	21.565	110989030	926.109		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.838	12.838	3629508	32.27		ug/ml
Aliphatic C9-C28	3.104	16.761	73433039	560.943	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.838	3629508	32.270 ug/ml
Spiked Amount	50.000		Recovery =	64.54%
	Target Compounds			
1) T	n-Nonane (C9)	3.205	3943747	28.034 ug/ml
2) T	n-Decane (C10)	4.261	4754624	33.561 ug/ml
4) T	n-Dodecane (C12)	6.270	5235120	37.192 ug/ml
6) T	n-Tetradecane (C14)	8.059	5850328	42.909 ug/ml
7) T	n-Hexadecane (C16)	9.655	6391300	46.664 ug/ml
8) T	n-Octadecane (C18)	11.093	6650779	48.632 ug/ml
10) T	n-Eicosane (C20)	12.400	6773133	51.986 ug/ml
11) T	n-Heneicosane (C21)	13.010	6452700	50.472 ug/ml
13) T	n-Docosane (C22)	13.595	6400679	50.788 ug/ml
14) T	n-Tetracosane (C24)	14.696	6277459	50.471 ug/ml
15) T	n-Hexacosane (C26)	15.715	6147591	50.559 ug/ml
16) T	n-Octacosane (C28)	16.664	5996760	50.492 ug/ml
17) T	n-Tricontane (C30)	17.551	6013877	49.963 ug/ml
18) T	n-Dotriacontane (C32)	18.382	5975842	51.486 ug/ml
19) T	n-Tetratriacontane (C34)	19.164	5937717	54.949 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	5683975	59.104 ug/ml
21) T	n-Octatriacontane (C38)	20.616	5522915	61.436 ug/ml
22) T	n-Tetracontane (C40)	21.469	5359281	61.942 ug/ml

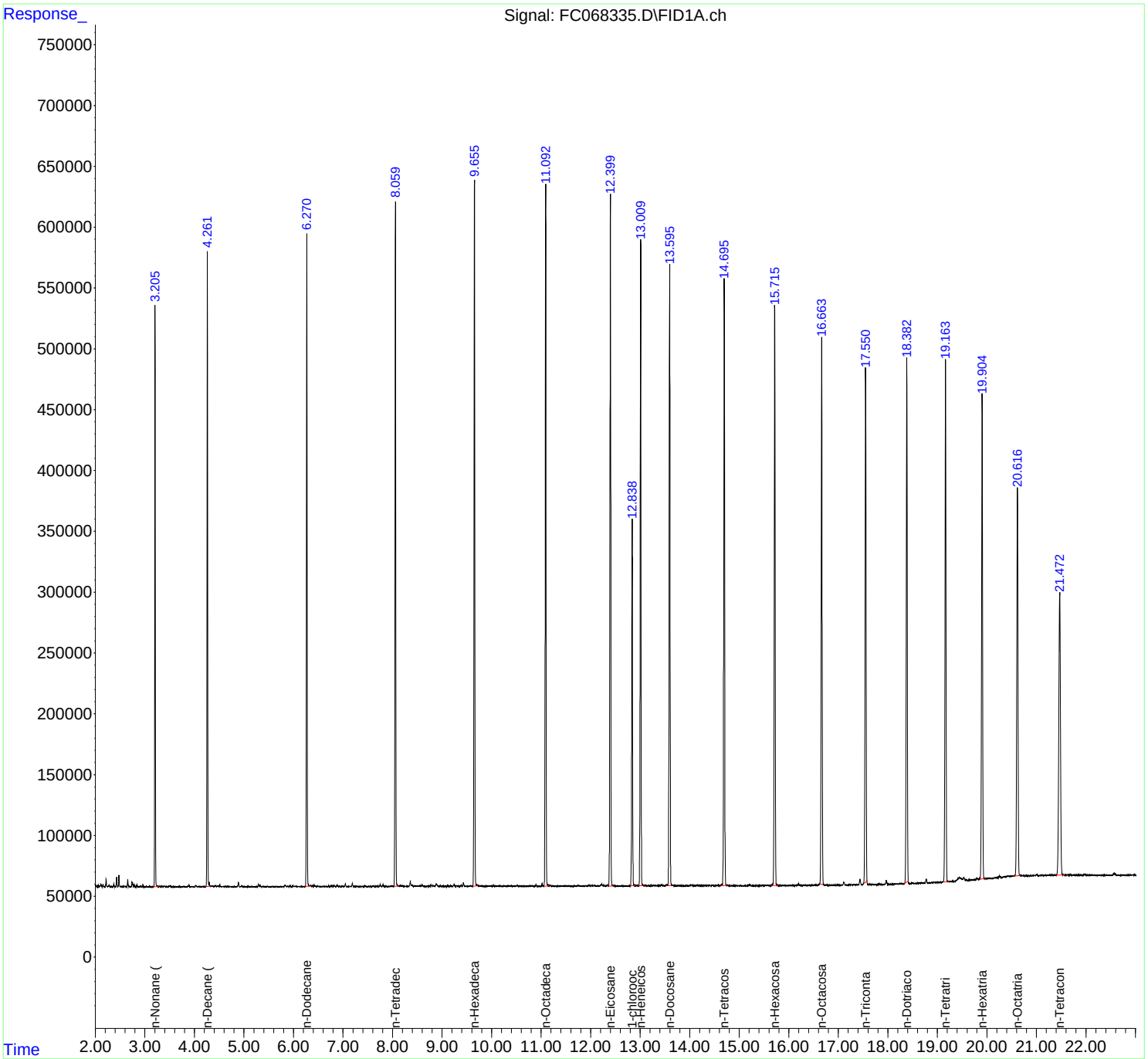
(f)=RT Delta > 1/2 Window (m)=manual int.

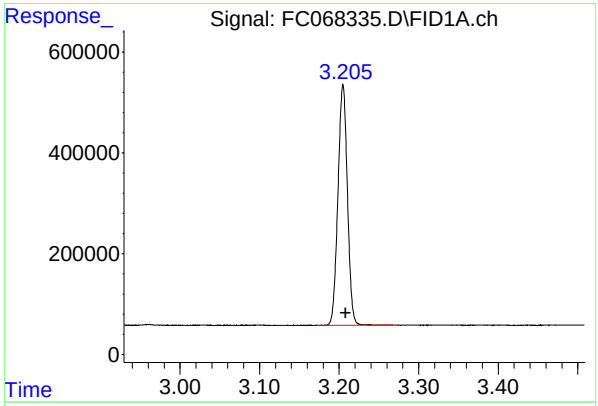
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 05 05:25:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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

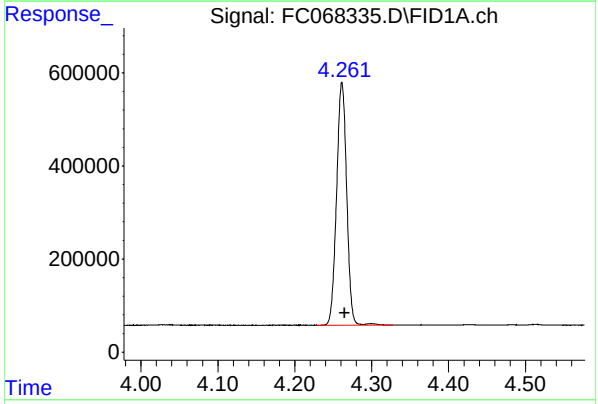




#1 n-Nonane (C9)

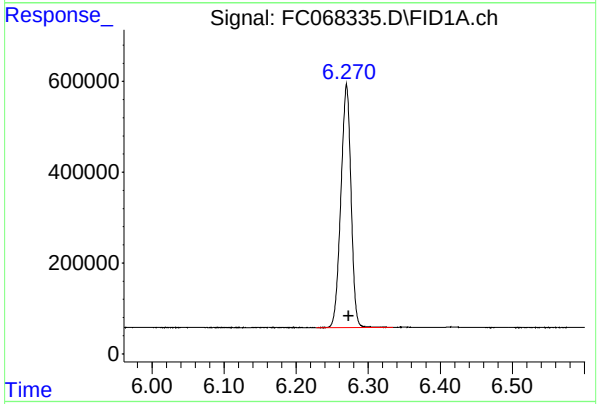
R.T.: 3.205 min
Delta R.T.: -0.003 min
Response: 3943747
Conc: 28.03 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD



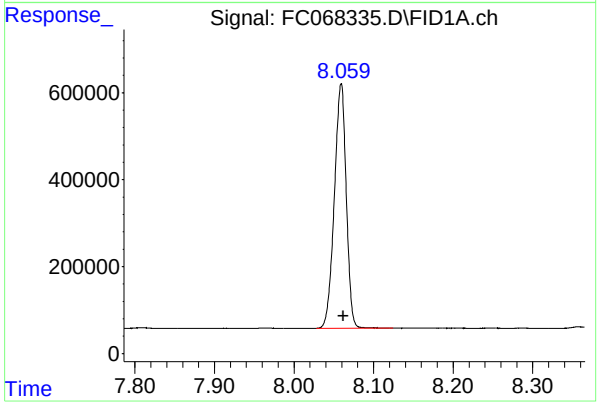
#2 n-Decane (C10)

R.T.: 4.261 min
Delta R.T.: -0.003 min
Response: 4754624
Conc: 33.56 ug/ml



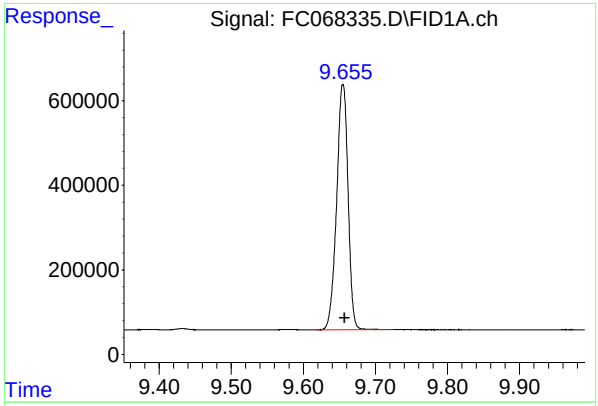
#4 n-Dodecane (C12)

R.T.: 6.270 min
Delta R.T.: -0.003 min
Response: 5235120
Conc: 37.19 ug/ml



#6 n-Tetradecane (C14)

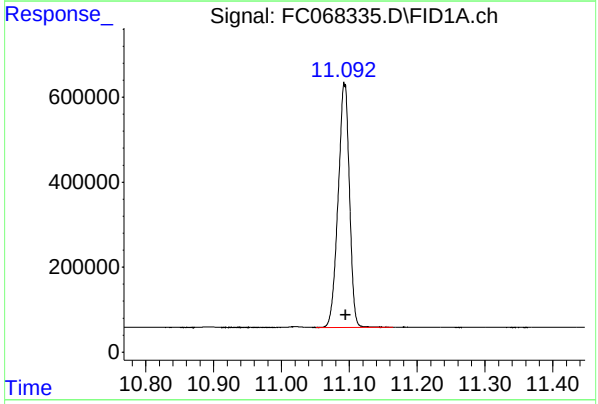
R.T.: 8.059 min
Delta R.T.: -0.003 min
Response: 5850328
Conc: 42.91 ug/ml



#7 n-Hexadecane (C16)

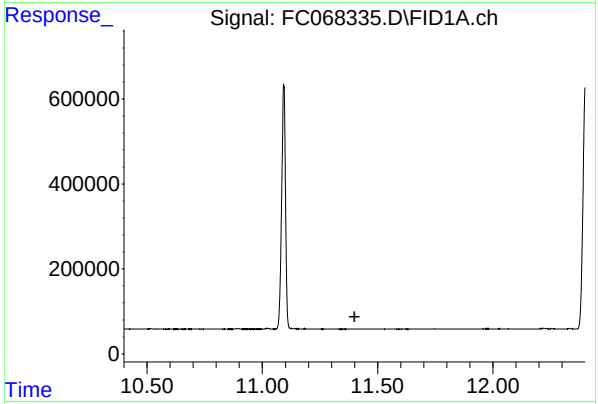
R.T.: 9.655 min
Delta R.T.: -0.002 min
Response: 6391300
Conc: 46.66 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD



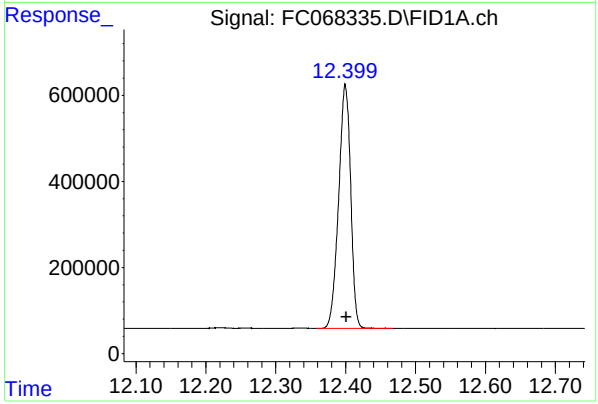
#8 n-Octadecane (C18)

R.T.: 11.093 min
Delta R.T.: -0.002 min
Response: 6650779
Conc: 48.63 ug/ml



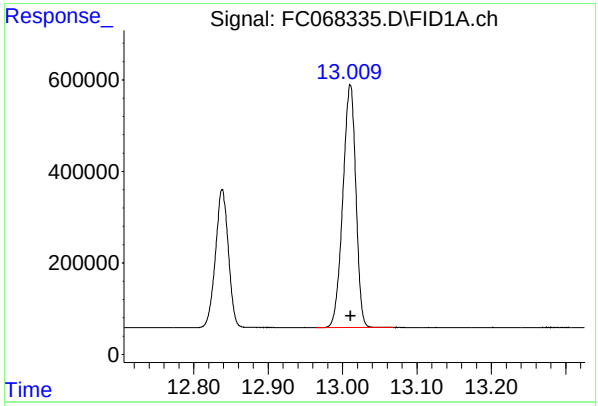
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

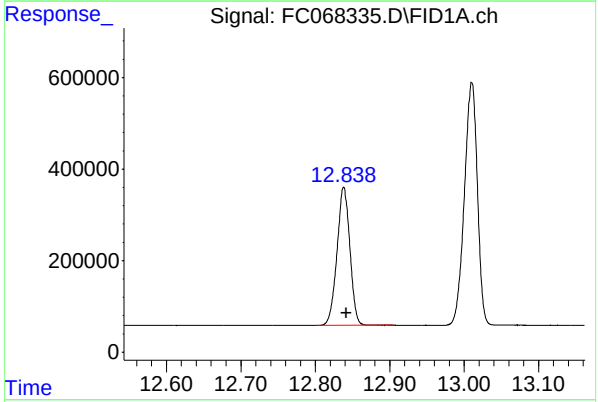
R.T.: 12.400 min
Delta R.T.: -0.001 min
Response: 6773133
Conc: 51.99 ug/ml



#11 n-Heneicosane (C21)

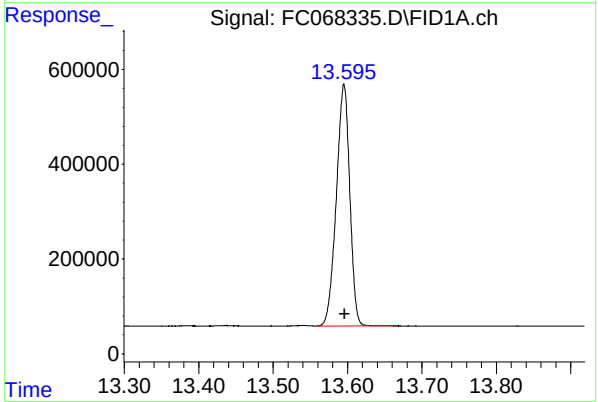
R.T.: 13.010 min
Delta R.T.: 0.000 min
Response: 6452700
Conc: 50.47 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD



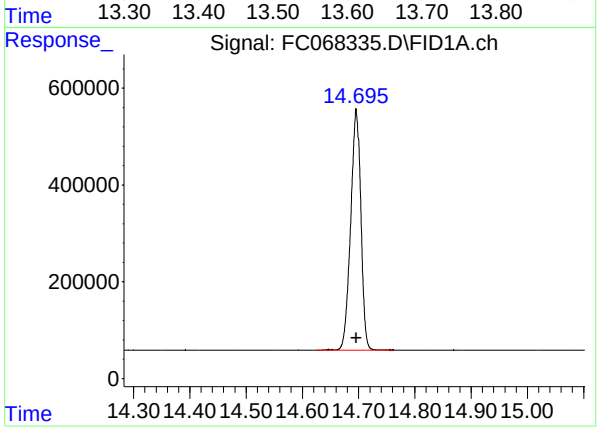
#12 1-chlorooctadecane (SURR)

R.T.: 12.838 min
Delta R.T.: -0.003 min
Response: 3629508
Conc: 32.27 ug/ml



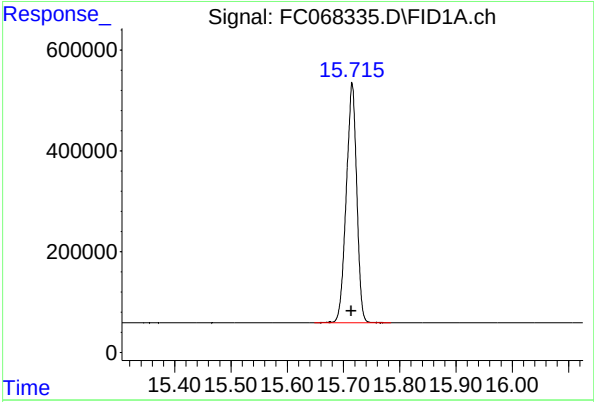
#13 n-Docosane (C22)

R.T.: 13.595 min
Delta R.T.: 0.000 min
Response: 6400679
Conc: 50.79 ug/ml



#14 n-Tetracosane (C24)

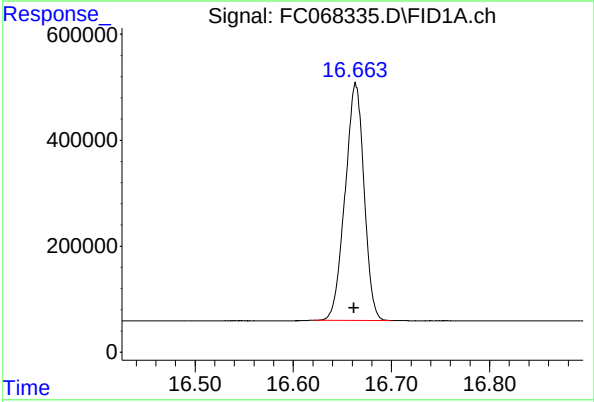
R.T.: 14.696 min
Delta R.T.: 0.000 min
Response: 6277459
Conc: 50.47 ug/ml



#15 n-Hexacosane (C26)

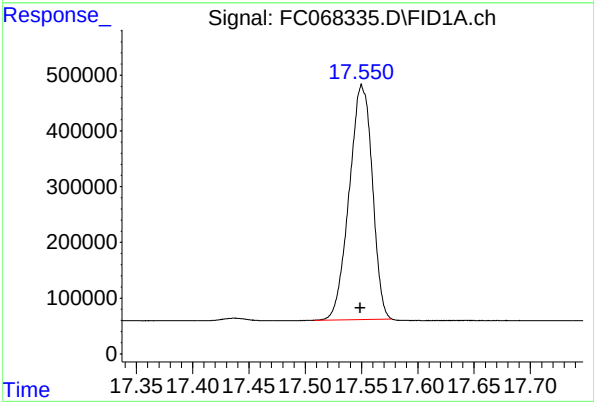
R.T.: 15.715 min
Delta R.T.: 0.001 min
Response: 6147591
Conc: 50.56 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD



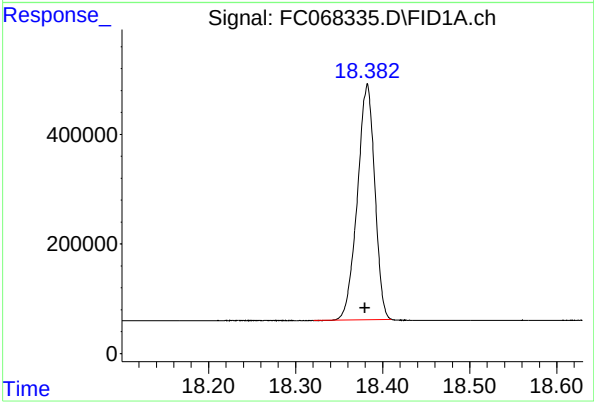
#16 n-Octacosane (C28)

R.T.: 16.664 min
Delta R.T.: 0.001 min
Response: 5996760
Conc: 50.49 ug/ml



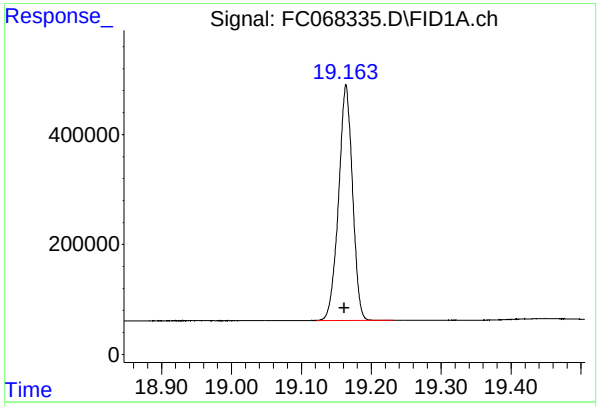
#17 n-Tricontane (C30)

R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 6013877
Conc: 49.96 ug/ml



#18 n-Dotriacontane (C32)

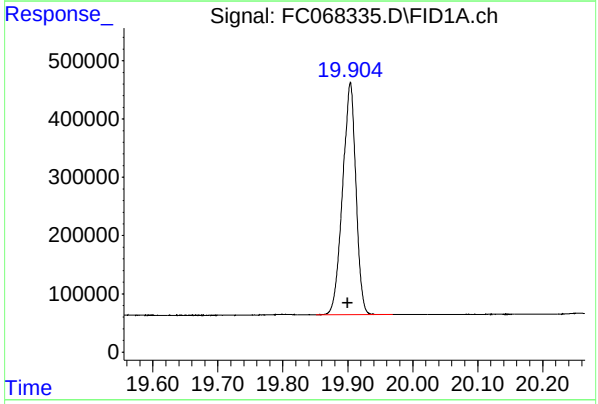
R.T.: 18.382 min
Delta R.T.: 0.002 min
Response: 5975842
Conc: 51.49 ug/ml



#19 n-Tetratriacontane (C34)

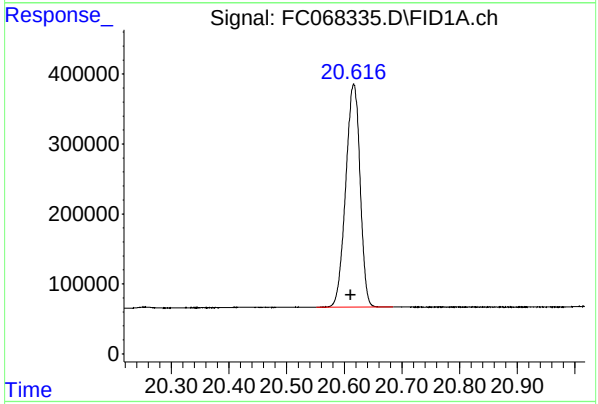
R.T.: 19.164 min
Delta R.T.: 0.003 min
Response: 5937717
Conc: 54.95 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD



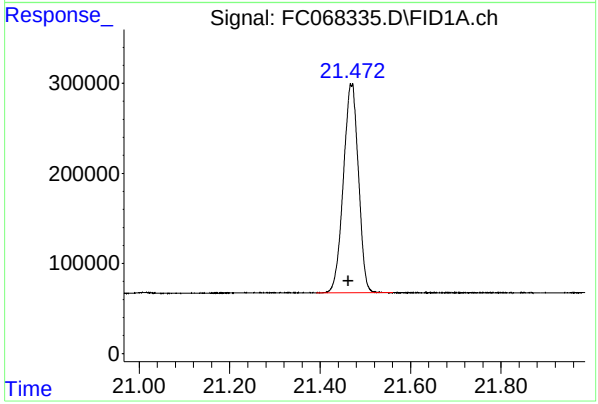
#20 n-Hexatriacontane (C36)

R.T.: 19.904 min
Delta R.T.: 0.004 min
Response: 5683975
Conc: 59.10 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.616 min
Delta R.T.: 0.005 min
Response: 5522915
Conc: 61.44 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.469 min
Delta R.T.: 0.007 min
Response: 5359281
Conc: 61.94 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022825AL\
Data File : FC068335.D
Signal(s) : FID1A.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.373	2.344	2.404	PV	2502	22211	0.33%	0.019%
2	2.429	2.404	2.453	VV	7877	67361	0.99%	0.058%
3	2.475	2.453	2.515	VV	9409	77635	1.14%	0.067%
4	2.525	2.515	2.536	VV	170	1245	0.02%	0.001%
5	2.557	2.536	2.575	PV	406	4865	0.07%	0.004%
6	2.591	2.575	2.624	VV	320	4153	0.06%	0.004%
7	2.653	2.624	2.716	VV	5738	54584	0.80%	0.047%
8	2.742	2.716	2.770	VV	3670	51262	0.75%	0.044%
9	2.786	2.770	2.819	VV	1528	16974	0.25%	0.015%
10	2.838	2.819	2.868	VV	1723	16588	0.24%	0.014%
11	2.917	2.868	2.944	VV	307	7449	0.11%	0.006%
12	2.960	2.944	3.006	VV	1641	15916	0.23%	0.014%
13	3.030	3.006	3.080	VV	276	5287	0.08%	0.005%
14	3.100	3.080	3.144	VV	212	3993	0.06%	0.003%
15	3.205	3.144	3.278	VV	474671	3957131	58.18%	3.433%
16	3.297	3.278	3.311	VV	378	5675	0.08%	0.005%
17	3.325	3.311	3.341	VV	402	5717	0.08%	0.005%
18	3.347	3.341	3.362	VV	269	3064	0.05%	0.003%
19	3.379	3.362	3.390	VV	341	4125	0.06%	0.004%
20	3.400	3.390	3.426	VV	265	4317	0.06%	0.004%
21	3.437	3.426	3.449	VV	243	2333	0.03%	0.002%
22	3.479	3.449	3.486	VV	429	6373	0.09%	0.006%
23	3.500	3.486	3.557	VV	642	13665	0.20%	0.012%
24	3.572	3.557	3.594	VV	260	3022	0.04%	0.003%
25	3.606	3.594	3.624	VV	188	2006	0.03%	0.002%
26	3.631	3.624	3.652	VV	188	1532	0.02%	0.001%
27	3.693	3.652	3.726	VV	330	6919	0.10%	0.006%
28	3.735	3.726	3.753	VV	129	1522	0.02%	0.001%
29	3.773	3.753	3.827	PV	316	5781	0.09%	0.005%
30	3.865	3.827	3.878	VV	528	7061	0.10%	0.006%
31	3.893	3.878	3.944	VV	949	12529	0.18%	0.011%
32	3.958	3.944	3.981	VV	257	2886	0.04%	0.003%
33	4.036	3.981	4.068	VV	924	19293	0.28%	0.017%
34	4.081	4.068	4.124	VV	267	5657	0.08%	0.005%
35	4.128	4.124	4.155	VV	116	1860	0.03%	0.002%
36	4.187	4.155	4.231	VV	184	6637	0.10%	0.006%

rteres

37	4.261	4.231	4.289	VV	520982	4732885	69.59%	4.106%
38	4.300	4.289	4.346	VV	3590	48323	0.71%	0.042%
39	4.362	4.346	4.391	VV	749	14126	0.21%	0.012%
40	4.428	4.391	4.468	VV	1340	26822	0.39%	0.023%
41	4.483	4.468	4.497	VV	1118	12023	0.18%	0.010%
42	4.513	4.497	4.554	VV	1695	21407	0.31%	0.019%
43	4.578	4.554	4.611	VV	238	6809	0.10%	0.006%
44	4.615	4.611	4.621	VV	255	1175	0.02%	0.001%
45	4.633	4.621	4.652	VV	221	3729	0.05%	0.003%
46	4.674	4.652	4.690	VV	235	4007	0.06%	0.003%
47	4.723	4.690	4.761	VV	284	5991	0.09%	0.005%
48	4.810	4.761	4.840	VV	356	5885	0.09%	0.005%
49	4.890	4.840	4.922	VV	3510	46198	0.68%	0.040%
50	4.945	4.922	4.962	VV	661	8349	0.12%	0.007%
51	4.972	4.962	5.054	VV	290	5251	0.08%	0.005%
52	5.078	5.054	5.103	VV	162	2912	0.04%	0.003%
53	5.165	5.103	5.231	VV	223	8730	0.13%	0.008%
54	5.242	5.231	5.249	VV	121	700	0.01%	0.001%
55	5.291	5.249	5.311	VV	1788	20915	0.31%	0.018%
56	5.331	5.311	5.371	VV	1245	16633	0.24%	0.014%
57	5.388	5.371	5.435	VV	278	5352	0.08%	0.005%
58	5.473	5.435	5.499	VV	288	6297	0.09%	0.005%
59	5.535	5.499	5.554	VV	121	2147	0.03%	0.002%
60	5.572	5.554	5.611	PV	295	6050	0.09%	0.005%
61	5.621	5.611	5.647	VV	236	3400	0.05%	0.003%
62	5.660	5.647	5.691	VV	214	3348	0.05%	0.003%
63	5.698	5.691	5.724	VV	131	1437	0.02%	0.001%
64	5.744	5.724	5.778	PV	169	3011	0.04%	0.003%
65	5.793	5.778	5.804	VV	225	2519	0.04%	0.002%
66	5.831	5.804	5.865	VV	1155	23002	0.34%	0.020%
67	5.885	5.865	5.908	VV	585	8183	0.12%	0.007%
68	5.929	5.908	5.962	VV	1083	14937	0.22%	0.013%
69	5.990	5.962	6.033	VV	704	14474	0.21%	0.013%
70	6.060	6.033	6.098	VV	379	9625	0.14%	0.008%
71	6.107	6.098	6.134	VV	182	2833	0.04%	0.002%
72	6.155	6.134	6.172	VV	270	4197	0.06%	0.004%
73	6.190	6.172	6.211	VV	204	3469	0.05%	0.003%
74	6.270	6.211	6.334	VV	535855	5258275	77.32%	4.562%
75	6.351	6.334	6.371	VV	1065	17085	0.25%	0.015%
76	6.386	6.371	6.399	VV	729	9657	0.14%	0.008%
77	6.416	6.399	6.438	VV	1453	18789	0.28%	0.016%
78	6.449	6.438	6.470	VV	588	7170	0.11%	0.006%
79	6.488	6.470	6.571	VV	688	16097	0.24%	0.014%
80	6.585	6.571	6.614	VV	326	5691	0.08%	0.005%
81	6.629	6.614	6.638	VV	240	3112	0.05%	0.003%
82	6.655	6.638	6.688	VV	277	5352	0.08%	0.005%
83	6.709	6.688	6.738	VV	607	8549	0.13%	0.007%
84	6.761	6.738	6.798	VV	813	16805	0.25%	0.015%
85	6.824	6.798	6.848	VV	682	14119	0.21%	0.012%
86	6.887	6.848	6.915	VV	1123	19849	0.29%	0.017%
87	6.925	6.915	6.951	VV	352	4582	0.07%	0.004%
88	6.966	6.951	6.980	VV	305	3964	0.06%	0.003%
89	6.991	6.980	7.020	VV	276	4092	0.06%	0.004%

rteres

90	7.047	7.020	7.078	VV	2375	26454	0.39%	0.023%
91	7.115	7.078	7.141	VV	367	8903	0.13%	0.008%
92	7.154	7.141	7.166	VV	441	4874	0.07%	0.004%
93	7.189	7.166	7.216	VV	2638	31866	0.47%	0.028%
94	7.224	7.216	7.234	VV	278	2586	0.04%	0.002%
95	7.250	7.234	7.268	VV	453	6250	0.09%	0.005%
96	7.279	7.268	7.317	VV	531	7199	0.11%	0.006%
97	7.348	7.317	7.375	VV	228	4627	0.07%	0.004%
98	7.391	7.375	7.423	PV	165	2087	0.03%	0.002%
99	7.449	7.423	7.484	VV	949	12597	0.19%	0.011%
100	7.547	7.484	7.568	VV	253	7576	0.11%	0.007%
101	7.608	7.568	7.630	VV	363	7775	0.11%	0.007%
102	7.668	7.630	7.691	VV	350	8551	0.13%	0.007%
103	7.708	7.691	7.726	VV	435	5500	0.08%	0.005%
104	7.753	7.726	7.776	VV	1610	19006	0.28%	0.016%
105	7.808	7.776	7.830	VV	1612	19530	0.29%	0.017%
106	7.848	7.830	7.863	VV	276	4150	0.06%	0.004%
107	7.878	7.863	7.897	VV	337	4135	0.06%	0.004%
108	7.911	7.897	7.938	VV	306	3742	0.06%	0.003%
109	7.963	7.938	8.024	VV	838	13975	0.21%	0.012%
110	8.059	8.024	8.133	VV	558311	5876988	86.41%	5.099%
111	8.154	8.133	8.198	VV	875	25997	0.38%	0.023%
112	8.205	8.198	8.226	VV	575	7138	0.10%	0.006%
113	8.248	8.226	8.268	VV	590	9697	0.14%	0.008%
114	8.287	8.268	8.331	VV	538	8809	0.13%	0.008%
115	8.358	8.331	8.448	VV	3666	80620	1.19%	0.070%
116	8.471	8.448	8.490	VV	544	11910	0.18%	0.010%
117	8.511	8.490	8.530	VV	656	12138	0.18%	0.011%
118	8.544	8.530	8.578	VV	589	12179	0.18%	0.011%
119	8.592	8.578	8.632	VV	1154	20881	0.31%	0.018%
120	8.653	8.632	8.688	VV	335	6768	0.10%	0.006%
121	8.708	8.688	8.731	VV	420	6134	0.09%	0.005%
122	8.777	8.731	8.796	VV	1474	23554	0.35%	0.020%
123	8.812	8.796	8.824	VV	922	11440	0.17%	0.010%
124	8.833	8.824	8.855	VV	648	9998	0.15%	0.009%
125	8.888	8.855	8.948	VV	2152	49076	0.72%	0.043%
126	8.963	8.948	8.985	VV	562	7555	0.11%	0.007%
127	9.011	8.985	9.043	VV	513	8303	0.12%	0.007%
128	9.065	9.043	9.077	VV	312	4013	0.06%	0.003%
129	9.122	9.077	9.147	VV	426	13195	0.19%	0.011%
130	9.174	9.147	9.218	VV	831	15325	0.23%	0.013%
131	9.244	9.218	9.274	VV	1474	24426	0.36%	0.021%
132	9.293	9.274	9.328	VV	955	14652	0.22%	0.013%
133	9.336	9.328	9.354	VV	327	3858	0.06%	0.003%
134	9.388	9.354	9.411	VV	880	16117	0.24%	0.014%
135	9.432	9.411	9.472	VV	3042	38078	0.56%	0.033%
136	9.491	9.472	9.531	VV	304	6325	0.09%	0.005%
137	9.542	9.531	9.547	VV	217	1821	0.03%	0.002%
138	9.577	9.547	9.616	VV	637	14876	0.22%	0.013%
139	9.655	9.616	9.809	VV	582924	6443012	94.74%	5.590%
140	9.816	9.809	9.902	VV	371	11880	0.17%	0.010%
141	9.932	9.902	9.945	VV	231	4935	0.07%	0.004%

rteres

142	9.965	9.945	9.991	VV	405	7626	0.11%	0.007%
143	10.045	9.991	10.064	VV	552	15043	0.22%	0.013%
144	10.075	10.064	10.104	VV	466	7552	0.11%	0.007%
145	10.132	10.104	10.194	VV	328	11990	0.18%	0.010%
146	10.249	10.194	10.267	VV	378	9371	0.14%	0.008%
147	10.285	10.267	10.301	VV	424	5946	0.09%	0.005%
148	10.321	10.301	10.351	VV	538	11450	0.17%	0.010%
149	10.392	10.351	10.425	VV	663	17716	0.26%	0.015%
150	10.441	10.425	10.458	VV	425	6043	0.09%	0.005%
151	10.469	10.458	10.488	VV	358	5477	0.08%	0.005%
152	10.516	10.488	10.545	VV	1026	18038	0.27%	0.016%
153	10.557	10.545	10.585	VV	286	5213	0.08%	0.005%
154	10.603	10.585	10.621	VV	252	4261	0.06%	0.004%
155	10.640	10.621	10.660	VV	196	3528	0.05%	0.003%
156	10.712	10.660	10.734	VV	336	8930	0.13%	0.008%
157	10.761	10.734	10.790	VV	365	8910	0.13%	0.008%
158	10.811	10.790	10.861	VV	589	10956	0.16%	0.010%
159	10.894	10.861	10.931	VV	1419	18488	0.27%	0.016%
160	10.967	10.931	10.991	VV	138	2181	0.03%	0.002%
161	11.021	10.991	11.050	PV	1872	24243	0.36%	0.021%
162	11.093	11.050	11.170	VV	580810	6671816	98.10%	5.788%
163	11.182	11.170	11.223	VV	750	13273	0.20%	0.012%
164	11.244	11.223	11.260	VV	195	3616	0.05%	0.003%
165	11.285	11.260	11.358	VV	237	8007	0.12%	0.007%
166	11.404	11.358	11.455	VV	302	12323	0.18%	0.011%
167	11.478	11.455	11.528	VV	482	11270	0.17%	0.010%
168	11.549	11.528	11.594	VV	342	9367	0.14%	0.008%
169	11.610	11.594	11.634	VV	111	2326	0.03%	0.002%
170	11.751	11.634	11.784	VV	660	27357	0.40%	0.024%
171	11.798	11.784	11.824	VV	370	5560	0.08%	0.005%
172	11.846	11.824	11.874	VV	231	5481	0.08%	0.005%
173	11.894	11.874	11.930	VV	331	9067	0.13%	0.008%
174	11.971	11.930	12.009	VV	757	21949	0.32%	0.019%
175	12.029	12.009	12.052	VV	682	11399	0.17%	0.010%
176	12.070	12.052	12.138	VV	475	15630	0.23%	0.014%
177	12.221	12.138	12.311	VV	1844	54129	0.80%	0.047%
178	12.336	12.311	12.357	VV	1213	16281	0.24%	0.014%
179	12.399	12.357	12.594	VV	561865	6800978	100.00%	5.900%
180	12.601	12.594	12.624	VV	70	1366	0.02%	0.001%
181	12.673	12.624	12.704	VV	234	7163	0.11%	0.006%
182	12.717	12.704	12.735	VV	236	2291	0.03%	0.002%
183	12.838	12.735	12.931	VV	302568	3667462	53.93%	3.182%
184	12.948	12.931	12.963	VV	456	7614	0.11%	0.007%
185	13.010	12.963	13.168	VV	539095	6502462	95.61%	5.641%
186	13.211	13.168	13.244	VV	404	14956	0.22%	0.013%
187	13.282	13.244	13.327	VV	521	19259	0.28%	0.017%
188	13.384	13.327	13.408	VV	779	19983	0.29%	0.017%
189	13.435	13.408	13.478	VV	1176	24907	0.37%	0.022%
190	13.539	13.478	13.558	VV	1500	28138	0.41%	0.024%
191	13.595	13.558	13.764	VV	509448	6446362	94.79%	5.593%
192	13.837	13.764	13.871	VV	327	15756	0.23%	0.014%
193	13.884	13.871	13.899	VV	270	3904	0.06%	0.003%
194	13.918	13.899	13.950	VV	244	6452	0.09%	0.006%

rteres

195	14.028	13.950	14.128	VV	1094	37948	0.56%	0.033%
196	14.153	14.128	14.184	VV	577	12358	0.18%	0.011%
197	14.211	14.184	14.229	VV	335	6566	0.10%	0.006%
198	14.300	14.229	14.373	VV	432	27150	0.40%	0.024%
199	14.396	14.373	14.437	VV	321	11353	0.17%	0.010%
200	14.464	14.437	14.520	VV	340	14734	0.22%	0.013%
201	14.544	14.520	14.571	VV	389	8453	0.12%	0.007%
202	14.592	14.571	14.616	VV	367	6038	0.09%	0.005%
203	14.696	14.616	14.824	VV	491177	6311101	92.80%	5.475%
204	14.866	14.824	14.924	VV	317	9873	0.15%	0.009%
205	14.950	14.924	14.991	PV	199	5316	0.08%	0.005%
206	15.002	14.991	15.031	VV	154	2035	0.03%	0.002%
207	15.076	15.031	15.088	VV	166	2453	0.04%	0.002%
208	15.114	15.088	15.154	VV	176	4085	0.06%	0.004%
209	15.211	15.154	15.247	VV	1181	20538	0.30%	0.018%
210	15.265	15.247	15.290	VV	172	2829	0.04%	0.002%
211	15.407	15.290	15.448	PV	203	11247	0.17%	0.010%
212	15.570	15.448	15.624	VV	306	18241	0.27%	0.016%
213	15.715	15.624	15.831	VV	475768	6171807	90.75%	5.354%
214	15.851	15.831	15.871	VV	153	3238	0.05%	0.003%
215	15.897	15.871	15.930	VV	187	4366	0.06%	0.004%
216	16.005	15.930	16.038	PV	161	5778	0.08%	0.005%
217	16.078	16.038	16.131	VV	114	4414	0.06%	0.004%
218	16.195	16.131	16.264	VV	1742	30012	0.44%	0.026%
219	16.274	16.264	16.295	VV	170	1928	0.03%	0.002%
220	16.359	16.295	16.393	VV	215	6380	0.09%	0.006%
221	16.406	16.393	16.418	VV	117	1437	0.02%	0.001%
222	16.546	16.418	16.578	PV	376	14792	0.22%	0.013%
223	16.663	16.578	16.731	VV	451399	6063367	89.15%	5.260%
224	16.749	16.731	16.791	VV	317	7273	0.11%	0.006%
225	16.812	16.791	16.884	VV	149	3743	0.06%	0.003%
226	16.953	16.884	16.984	VV	318	6427	0.09%	0.006%
227	16.999	16.984	17.044	VV	168	3051	0.04%	0.003%
228	17.111	17.044	17.171	PV	2514	39934	0.59%	0.035%
229	17.248	17.171	17.278	VV	174	7325	0.11%	0.006%
230	17.337	17.278	17.358	VV	245	8419	0.12%	0.007%
231	17.437	17.358	17.481	VV	4667	75858	1.12%	0.066%
232	17.550	17.481	17.613	VV	420390	6116891	89.94%	5.307%
233	17.640	17.613	17.748	VV	430	21798	0.32%	0.019%
234	17.824	17.748	17.901	VV	400	14951	0.22%	0.013%
235	17.969	17.901	18.011	PV	3519	53311	0.78%	0.046%
236	18.139	18.011	18.186	VV	118	8759	0.13%	0.008%
237	18.274	18.186	18.311	PV	230	10952	0.16%	0.010%
238	18.382	18.311	18.471	VV	425715	6043157	88.86%	5.243%
239	18.509	18.471	18.571	VV	202	7981	0.12%	0.007%
240	18.635	18.571	18.658	VV	182	4735	0.07%	0.004%
241	18.774	18.658	18.818	PV	3017	46839	0.69%	0.041%
242	18.956	18.818	18.987	VV	222	9175	0.13%	0.008%
243	19.164	18.987	19.249	PV	428957	5973219	87.83%	5.182%
244	19.319	19.249	19.344	VV	528	18857	0.28%	0.016%
245	19.451	19.344	19.506	VV	3048	182426	2.68%	0.158%
246	19.533	19.506	19.613	VV	3210	102533	1.51%	0.089%

rteres

247	19.801	19.613	19.831	VV	1981	128535	1.89%	0.112%
248	19.903	19.831	20.003	VV	404559	5825520	85.66%	5.054%
249	20.255	20.003	20.298	VV	3245	305181	4.49%	0.265%
250	20.428	20.298	20.481	VV	2645	253400	3.73%	0.220%
251	20.616	20.481	20.741	VV	321516	5922266	87.08%	5.138%
252	20.765	20.741	20.831	VV	2384	124414	1.83%	0.108%
253	20.855	20.831	20.881	VV	2229	64875	0.95%	0.056%
254	20.932	20.881	20.967	VV	2165	107428	1.58%	0.093%
255	21.011	20.967	21.070	VV	2690	133329	1.96%	0.116%
256	21.293	21.070	21.391	VV	1949	356782	5.25%	0.310%
257	21.469	21.391	21.622	VV	233803	5573920	81.96%	4.836%
258	21.637	21.622	21.662	VV	1272	30341	0.45%	0.026%
259	21.766	21.662	21.834	VV	1126	112158	1.65%	0.097%
260	21.847	21.834	21.888	VV	872	25623	0.38%	0.022%
261	21.983	21.888	22.051	VV	833	65515	0.96%	0.057%
262	22.066	22.051	22.224	VV	471	24734	0.36%	0.021%

Sum of corrected areas: 115264388

Aliphatic EPH 021125.M Sat Mar 01 01:31:30 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70.3
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
FD049143.D	1	02/27/25	02/28/25	PB166923

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.34		0.43	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	16.4		0.48	1.42	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.2		1.36	2.37	mg/kg
Aromatic C21-C36	Aromatic C21-C36	55.5		2.84	3.79	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.9		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.1		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		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:	Q1421-03	Acq On:	28 Feb 2025 19:32
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FD049143.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.076	5.794	15672874	98.559	200	ug/ml
Aromatic C12-C16	5.795	8.396	27922630	173.502	300	ug/ml
Aromatic C16-C21	8.397	12.661	55344709	360.883	500	ug/ml
Aromatic C21-C36	12.662	18.073	83844627	585.856	800	ug/ml
Aromatic EPH	4.076	18.073	182784840	1220		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	8004383	55.93		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	5197744	59.12		ug/ml
ortho-Terphenyl (SURR)	11.234	11.234	5182415	32.03		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	8004383	55.932 ug/ml
	Spiked Amount 50.000		Recovery = 111.86%	
6)	S 2-Flurobiphenyl (SURR)	8.203	5197744	59.124 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 118.25%	
11)	S ortho-Terphenyl (SURR)	11.234	5182415	32.035 ug/ml
	Spiked Amount 50.000		Recovery = 64.07%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.176	6806303	42.739 ug/ml
2)	T Naphthalene (C11.7)	5.693	7499718	47.231 ug/ml
3)	T 2-Methylnaphthalene (...	6.739	7389966	47.465 ug/ml
5)	T Acenaphthylene (C15.06)	8.005	8610669	52.954 ug/ml
7)	T Acenaphthene (C15.5)	8.300	9186896	55.844 ug/ml
8)	T Flouorene (C16.55)	9.079	9395749	59.599 ug/ml
9)	T Phenanthrene (C19.36)	10.468	9704487	64.396 ug/ml
10)	T Anthracene (C19.43)	10.543	9855802	65.258 ug/ml
12)	T Fluoranthene (C21.85)	12.273	10149905	65.774 ug/ml
13)	T Pyrene (C20.8)	12.566	9846593	63.915 ug/ml
14)	T Benzo[a]anthracene (C...	14.437	9400442	71.546 ug/ml
15)	T Chrysene (C27.41)	14.479	9200670	56.904 ug/ml
16)	T benzo[b]fluoranthene ...	15.987	9332863	67.829 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.022	9405347	59.549 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	9010214	66.380 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.734	8902747	81.470 ug/ml
20)	T Dibenz[a,h]anthracene...	17.767	9038652	58.261 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.984	8820594	60.852 ug/ml

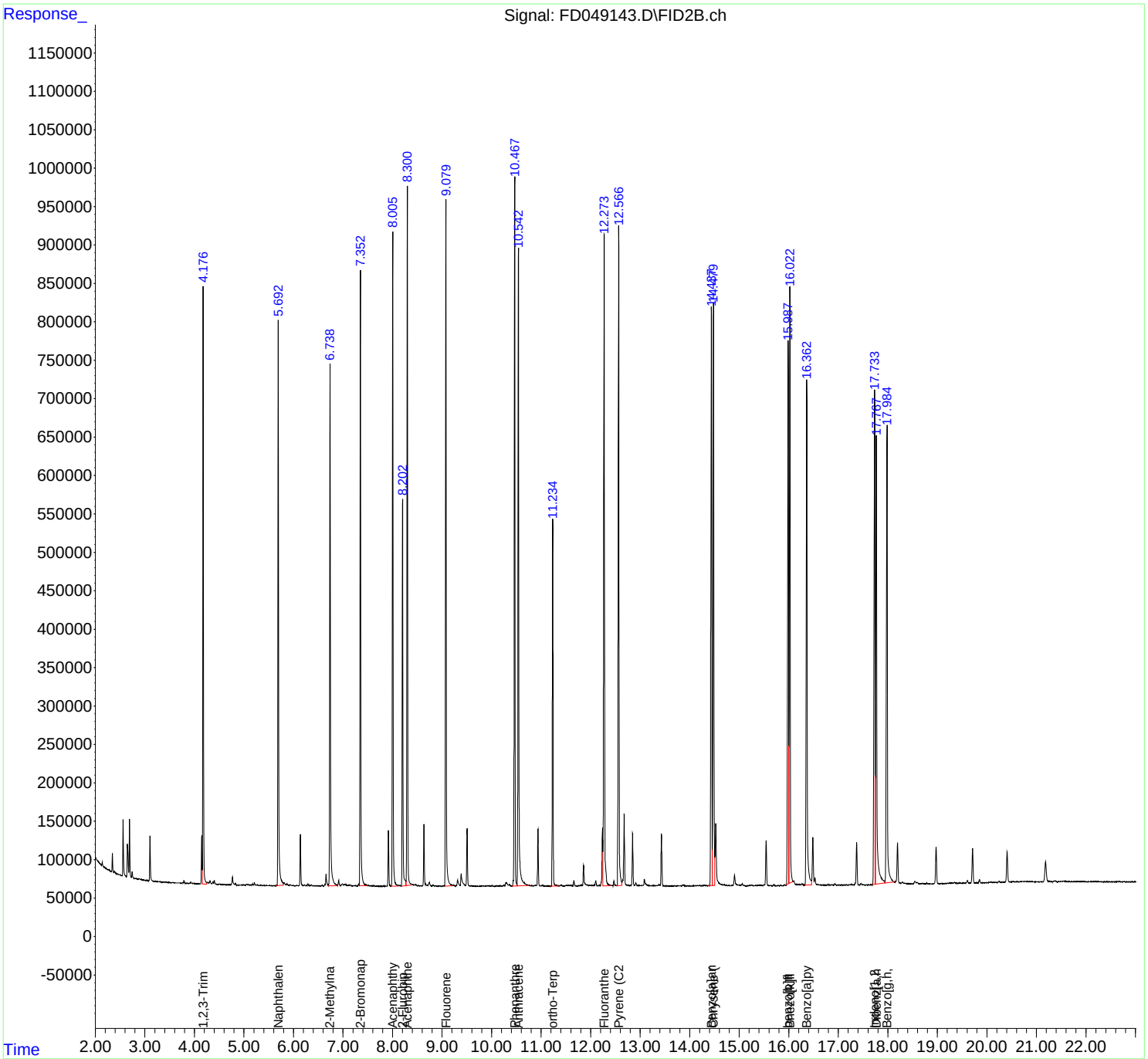
(f)=RT Delta > 1/2 Window (m)=manual int.

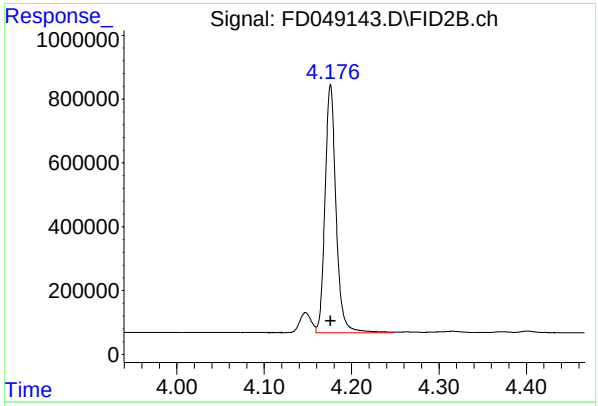
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Operator : YP/AJ
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Mar 01 02:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

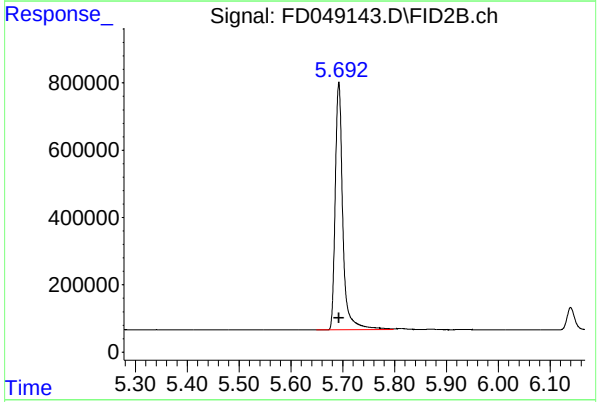




#1 1,2,3-Trimethylbenzene (C10.1)

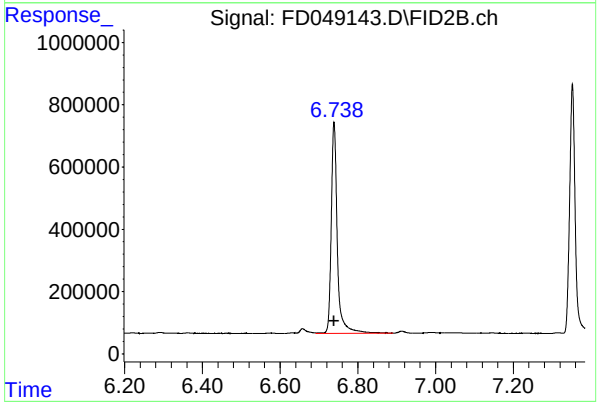
R.T.: 4.176 min
Delta R.T.: 0.000 min
Response: 6806303
Conc: 42.74 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



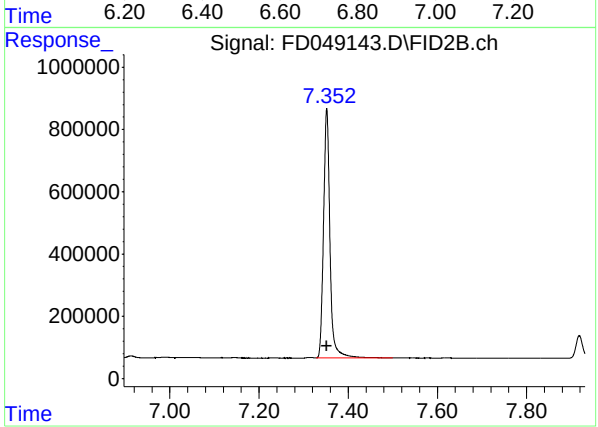
#2 Naphthalene (C11.7)

R.T.: 5.693 min
Delta R.T.: 0.000 min
Response: 7499718
Conc: 47.23 ug/ml



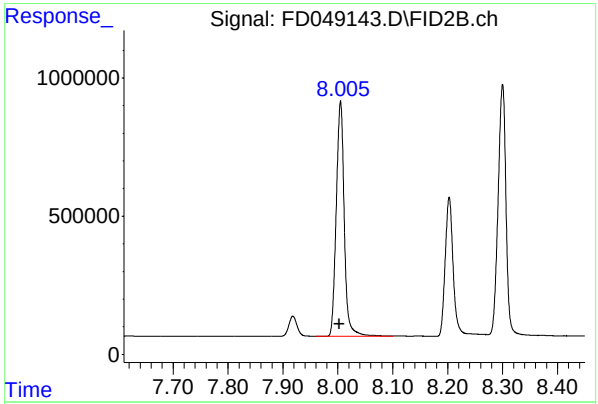
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.739 min
Delta R.T.: 0.000 min
Response: 7389966
Conc: 47.46 ug/ml



#4 2-Bromonaphthalene (SURR)

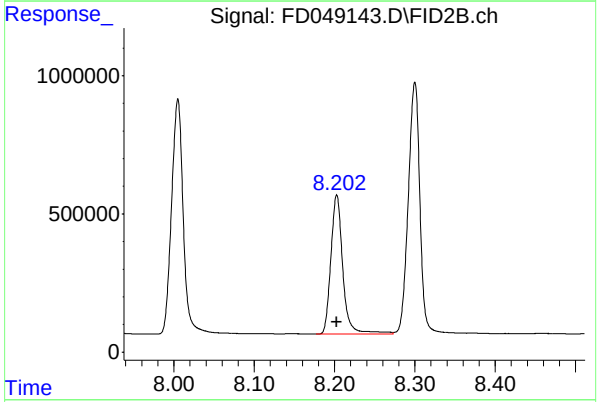
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 8004383
Conc: 55.93 ug/ml



#5 Acenaphthylene (C15.06)

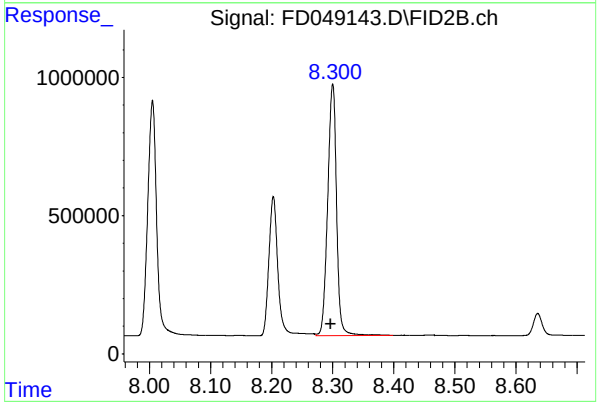
R.T.: 8.005 min
Delta R.T.: 0.002 min
Response: 8610669
Conc: 52.95 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



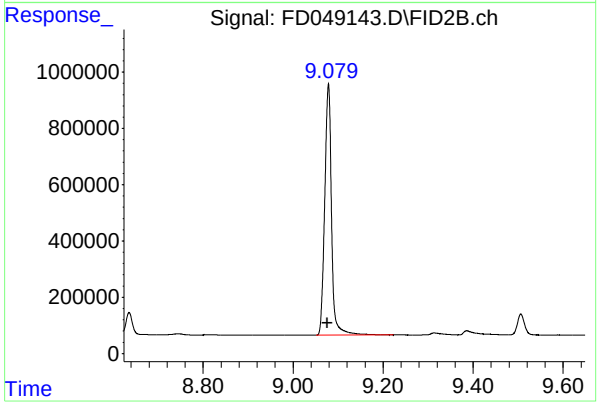
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 5197744
Conc: 59.12 ug/ml



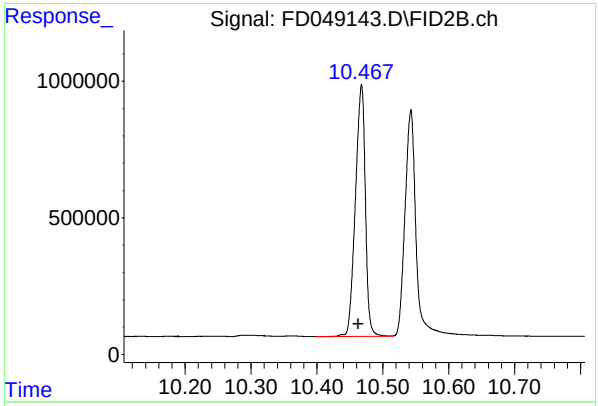
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.004 min
Response: 9186896
Conc: 55.84 ug/ml



#8 Flouorene (C16.55)

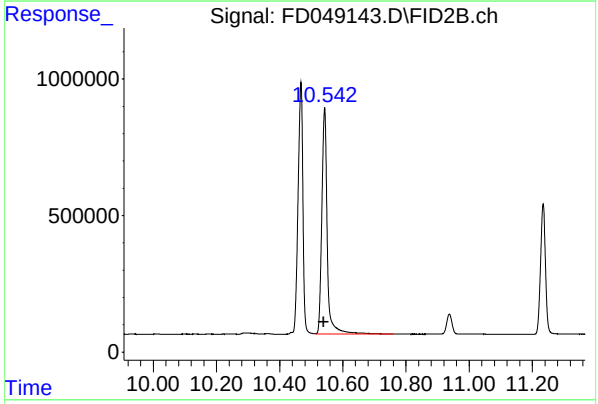
R.T.: 9.079 min
Delta R.T.: 0.003 min
Response: 9395749
Conc: 59.60 ug/ml



#9 Phenanthrene (C19.36)

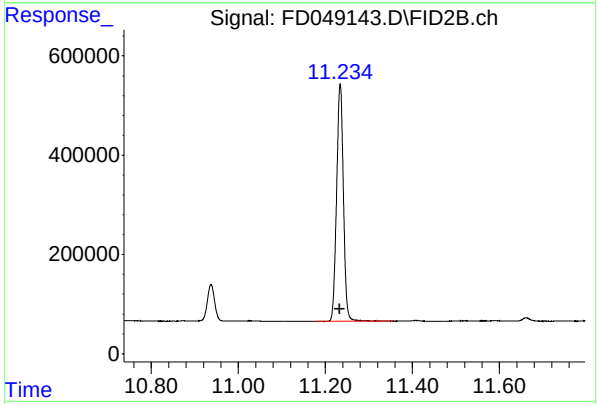
R.T.: 10.468 min
Delta R.T.: 0.005 min
Response: 9704487
Conc: 64.40 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



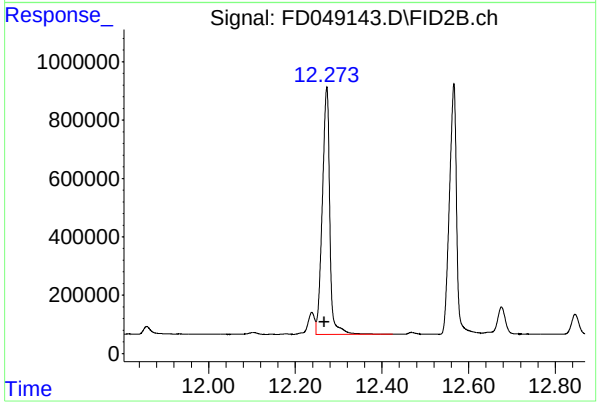
#10 Anthracene (C19.43)

R.T.: 10.543 min
Delta R.T.: 0.003 min
Response: 9855802
Conc: 65.26 ug/ml



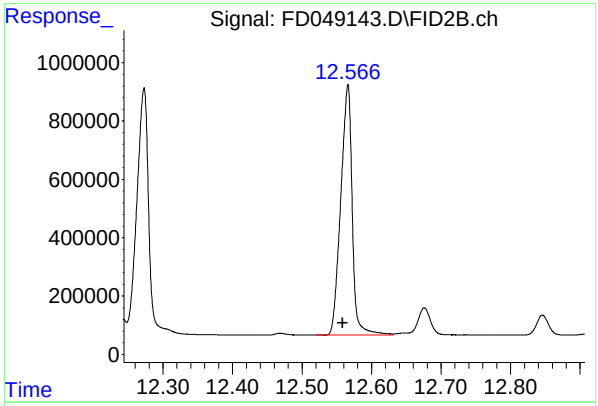
#11 ortho-Terphenyl (SURR)

R.T.: 11.234 min
Delta R.T.: 0.000 min
Response: 5182415
Conc: 32.03 ug/ml



#12 Fluoranthene (C21.85)

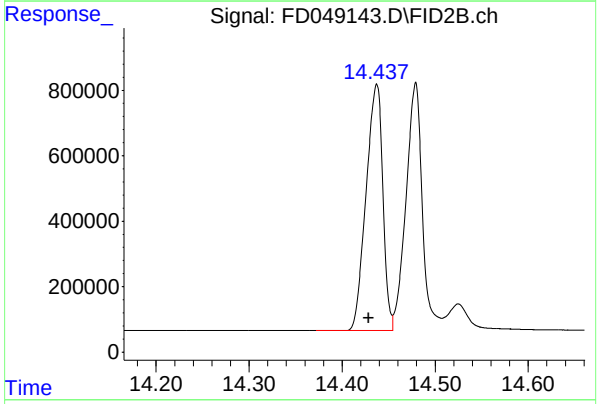
R.T.: 12.273 min
Delta R.T.: 0.006 min
Response: 10149905
Conc: 65.77 ug/ml



#13 Pyrene (C20.8)

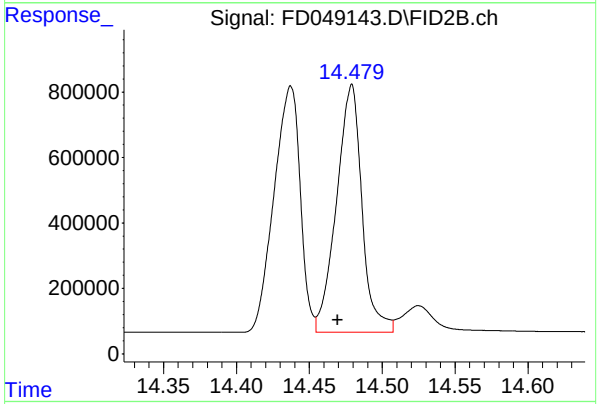
R.T.: 12.566 min
Delta R.T.: 0.008 min
Response: 9846593
Conc: 63.91 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



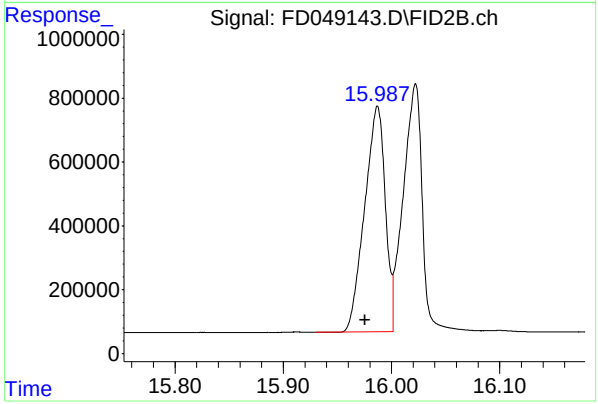
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.437 min
Delta R.T.: 0.009 min
Response: 9400442
Conc: 71.55 ug/ml



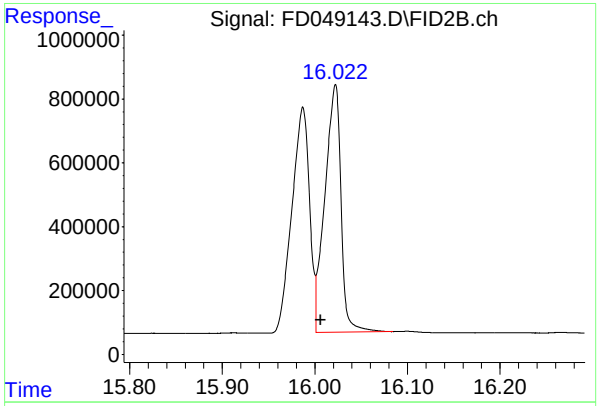
#15 Chrysene (C27.41)

R.T.: 14.479 min
Delta R.T.: 0.010 min
Response: 9200670
Conc: 56.90 ug/ml



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

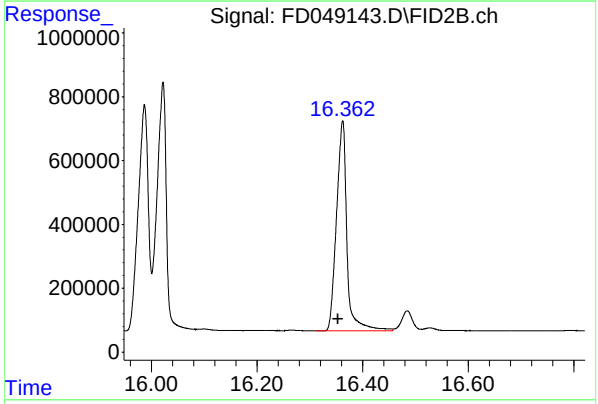
R.T.: 15.987 min
Delta R.T.: 0.012 min
Response: 9332863
Conc: 67.83 ug/ml



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

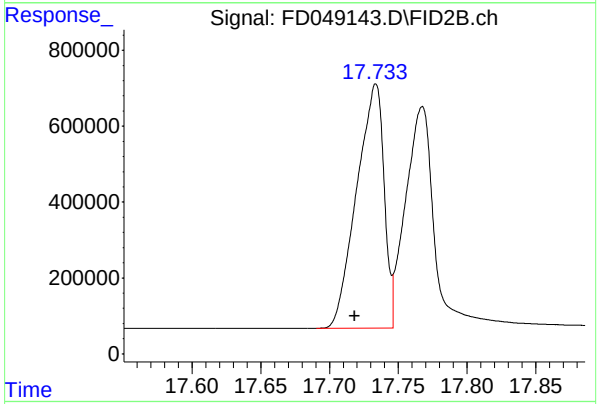
R.T.: 16.022 min
Delta R.T.: 0.016 min
Response: 9405347
Conc: 59.55 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



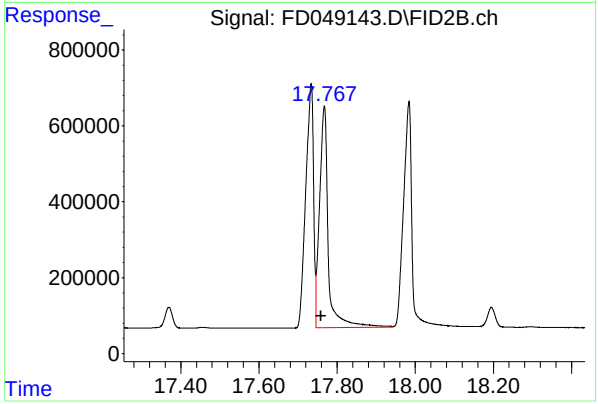
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.009 min
Response: 9010214
Conc: 66.38 ug/ml



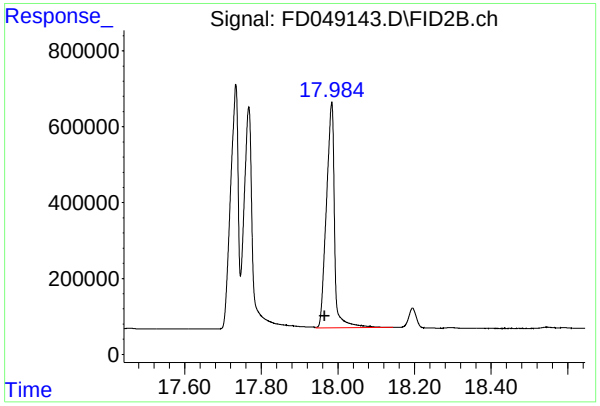
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.734 min
Delta R.T.: 0.015 min
Response: 8902747
Conc: 81.47 ug/ml



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

R.T.: 17.767 min
Delta R.T.: 0.008 min
Response: 9038652
Conc: 58.26 ug/ml



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

R.T.: 17.984 min
Delta R.T.: 0.018 mi
Response: 8820594
Conc: 60.85 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022825AR\
Data File : FD049143.D
Signal(s) : FID2B.ch
Acq On : 28 Feb 2025 19:32
Sample : Q1421-03
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.052	4.042	4.077	BV	152	1824	0.02%	0.001%
2	4.097	4.077	4.123	VV	200	2811	0.03%	0.001%
3	4.147	4.123	4.159	PV	63153	570838	5.59%	0.282%
4	4.176	4.159	4.247	VV	777604	6811089	66.71%	3.366%
5	4.264	4.247	4.283	VV	2518	44255	0.43%	0.022%
6	4.316	4.283	4.354	VV	4700	97915	0.96%	0.048%
7	4.372	4.354	4.387	VV	3581	42915	0.42%	0.021%
8	4.401	4.387	4.469	VV	5387	74932	0.73%	0.037%
9	4.491	4.469	4.498	VV	557	7223	0.07%	0.004%
10	4.514	4.498	4.544	VV	978	14805	0.14%	0.007%
11	4.549	4.544	4.557	VV	330	1801	0.02%	0.001%
12	4.561	4.557	4.570	VV	421	2357	0.02%	0.001%
13	4.583	4.570	4.593	VV	435	3298	0.03%	0.002%
14	4.608	4.593	4.617	VV	342	3178	0.03%	0.002%
15	4.624	4.617	4.642	VV	206	2250	0.02%	0.001%
16	4.648	4.642	4.660	VV	239	1291	0.01%	0.001%
17	4.666	4.660	4.673	PV	202	1068	0.01%	0.001%
18	4.689	4.673	4.709	VV	613	6780	0.07%	0.003%
19	4.714	4.709	4.725	VV	382	2486	0.02%	0.001%
20	4.769	4.725	4.811	VV	10385	149782	1.47%	0.074%
21	4.827	4.811	4.848	VV	2278	26668	0.26%	0.013%
22	4.858	4.848	4.882	VV	430	4562	0.04%	0.002%
23	4.886	4.882	4.891	VV	241	1049	0.01%	0.001%
24	4.898	4.891	4.906	VV	230	1407	0.01%	0.001%
25	4.918	4.906	4.942	VV	220	2878	0.03%	0.001%
26	4.967	4.942	5.002	VV	677	11218	0.11%	0.006%
27	5.005	5.002	5.017	VV	305	1996	0.02%	0.001%
28	5.020	5.017	5.033	VV	386	1872	0.02%	0.001%
29	5.048	5.033	5.114	VV	1629	47163	0.46%	0.023%
30	5.134	5.114	5.151	VV	783	13240	0.13%	0.007%
31	5.177	5.151	5.195	VV	1693	25292	0.25%	0.013%
32	5.211	5.195	5.234	VV	3795	44340	0.43%	0.022%
33	5.236	5.234	5.255	VV	718	8073	0.08%	0.004%
34	5.268	5.255	5.322	VV	1166	20586	0.20%	0.010%
35	5.340	5.322	5.351	VV	618	8137	0.08%	0.004%
36	5.358	5.351	5.380	VV	467	5563	0.05%	0.003%

rteres

37	5.383	5.380	5.406	VV	281	3514	0.03%	0.002%
38	5.411	5.406	5.435	VV	287	3793	0.04%	0.002%
39	5.461	5.444	5.494	VV	641	10403	0.10%	0.005%
40	5.517	5.494	5.550	VV	539	12495	0.12%	0.006%
41	5.556	5.550	5.575	VV	427	4592	0.04%	0.002%
42	5.581	5.575	5.595	VV	324	2879	0.03%	0.001%
43	5.607	5.595	5.618	VV	343	2915	0.03%	0.001%
44	5.641	5.618	5.669	PV	299	5438	0.05%	0.003%
45	5.693	5.669	5.800	VV	734408	7561727	74.06%	3.737%
46	5.810	5.800	5.855	VV	4343	90069	0.88%	0.045%
47	5.872	5.855	5.907	VV	2447	49341	0.48%	0.024%
48	5.938	5.907	5.964	VV	1474	35410	0.35%	0.018%
49	5.973	5.964	5.990	VV	652	7722	0.08%	0.004%
50	5.997	5.990	6.008	VV	560	4300	0.04%	0.002%
51	6.019	6.008	6.023	VV	471	2723	0.03%	0.001%
52	6.028	6.023	6.045	VV	418	4213	0.04%	0.002%
53	6.054	6.045	6.058	VV	468	3046	0.03%	0.002%
54	6.065	6.058	6.070	VV	486	3555	0.03%	0.002%
55	6.072	6.070	6.103	VV	590	9105	0.09%	0.005%
56	6.140	6.103	6.193	VV	67007	710905	6.96%	0.351%
57	6.200	6.193	6.205	VV	605	3527	0.03%	0.002%
58	6.221	6.205	6.243	VV	1759	21706	0.21%	0.011%
59	6.261	6.243	6.274	VV	912	10752	0.11%	0.005%
60	6.291	6.274	6.310	VV	3067	35997	0.35%	0.018%
61	6.324	6.310	6.347	VV	1046	12714	0.12%	0.006%
62	6.362	6.347	6.399	VV	1716	21006	0.21%	0.010%
63	6.404	6.399	6.429	VV	348	4618	0.05%	0.002%
64	6.461	6.429	6.466	VV	514	6657	0.07%	0.003%
65	6.472	6.466	6.491	VV	361	3290	0.03%	0.002%
66	6.502	6.491	6.526	VV	403	5043	0.05%	0.002%
67	6.547	6.536	6.552	VV	237	1204	0.01%	0.001%
68	6.577	6.552	6.612	VV	1315	17042	0.17%	0.008%
69	6.631	6.612	6.641	VV	1693	18622	0.18%	0.009%
70	6.658	6.641	6.692	VV	15464	194307	1.90%	0.096%
71	6.700	6.692	6.711	VV	1758	18601	0.18%	0.009%
72	6.739	6.711	6.851	VV	679171	7383052	72.31%	3.649%
73	6.854	6.851	6.881	VV	2477	33866	0.33%	0.017%
74	6.887	6.881	6.891	VV	1471	8334	0.08%	0.004%
75	6.913	6.891	6.949	VV	7638	108444	1.06%	0.054%
76	6.991	6.949	7.011	VV	3213	74290	0.73%	0.037%
77	7.023	7.011	7.037	VV	2116	29343	0.29%	0.015%
78	7.058	7.037	7.082	VV	2231	44437	0.44%	0.022%
79	7.088	7.082	7.096	VV	906	7281	0.07%	0.004%
80	7.117	7.096	7.129	VV	1542	21709	0.21%	0.011%
81	7.145	7.129	7.174	VV	1799	28489	0.28%	0.014%
82	7.177	7.174	7.190	VV	523	3784	0.04%	0.002%
83	7.197	7.190	7.201	VV	451	2479	0.02%	0.001%
84	7.207	7.201	7.216	VV	518	3999	0.04%	0.002%
85	7.232	7.216	7.250	VV	1040	14345	0.14%	0.007%
86	7.256	7.250	7.269	VV	605	6331	0.06%	0.003%
87	7.272	7.269	7.291	VV	581	4459	0.04%	0.002%
88	7.315	7.291	7.328	VV	2492	28344	0.28%	0.014%
89	7.352	7.328	7.504	VV	801757	8084590	79.18%	3.996%

rteres

90	7.514	7.504	7.539	VV	1114	19282	0.19%	0.010%
91	7.544	7.539	7.565	VV	777	10551	0.10%	0.005%
92	7.578	7.565	7.595	VV	802	10909	0.11%	0.005%
93	7.621	7.595	7.665	VV	1518	23244	0.23%	0.011%
94	7.678	7.665	7.691	VV	391	2936	0.03%	0.001%
95	7.702	7.691	7.737	VV	451	6081	0.06%	0.003%
96	7.750	7.737	7.774	PV	306	2740	0.03%	0.001%
97	7.792	7.785	7.803	PV	215	1206	0.01%	0.001%
98	7.832	7.803	7.851	VV	452	6992	0.07%	0.003%
99	7.859	7.851	7.873	VV	421	3328	0.03%	0.002%
100	7.918	7.873	7.959	VV	72554	765234	7.49%	0.378%
101	7.966	7.959	7.978	VV	423	4020	0.04%	0.002%
102	8.005	7.978	8.100	VV	851882	8632702	84.55%	4.267%
103	8.113	8.100	8.135	VV	1710	25024	0.25%	0.012%
104	8.148	8.135	8.177	VV	1404	20232	0.20%	0.010%
105	8.203	8.177	8.273	VV	503940	5226608	51.19%	2.583%
106	8.300	8.273	8.374	VV	912589	9249942	90.59%	4.572%
107	8.375	8.374	8.398	VV	3521	39746	0.39%	0.020%
108	8.407	8.398	8.440	VV	2046	46801	0.46%	0.023%
109	8.458	8.440	8.492	VV	2464	56965	0.56%	0.028%
110	8.497	8.492	8.504	VV	841	5350	0.05%	0.003%
111	8.516	8.504	8.540	VV	1431	19998	0.20%	0.010%
112	8.564	8.540	8.597	VV	1002	22135	0.22%	0.011%
113	8.636	8.597	8.712	VV	80870	885631	8.67%	0.438%
114	8.745	8.712	8.786	VV	5378	105642	1.03%	0.052%
115	8.819	8.786	8.850	VV	1807	37017	0.36%	0.018%
116	8.871	8.850	8.898	VV	888	13799	0.14%	0.007%
117	8.908	8.898	8.921	VV	423	3912	0.04%	0.002%
118	8.946	8.921	8.957	VV	673	10071	0.10%	0.005%
119	8.961	8.957	8.970	VV	561	3299	0.03%	0.002%
120	8.974	8.970	8.990	VV	413	3165	0.03%	0.002%
121	9.018	8.999	9.026	VV	804	9065	0.09%	0.004%
122	9.032	9.026	9.037	VV	779	4178	0.04%	0.002%
123	9.041	9.037	9.051	VV	778	4913	0.05%	0.002%
124	9.079	9.051	9.222	VV	893730	9456631	92.62%	4.674%
125	9.236	9.222	9.269	VV	1541	31863	0.31%	0.016%
126	9.314	9.269	9.370	VV	8137	183643	1.80%	0.091%
127	9.386	9.370	9.478	VV	15973	356742	3.49%	0.176%
128	9.506	9.478	9.553	VV	75343	848602	8.31%	0.419%
129	9.557	9.553	9.569	VV	789	6282	0.06%	0.003%
130	9.592	9.569	9.641	VV	976	29599	0.29%	0.015%
131	9.649	9.641	9.670	VV	490	4976	0.05%	0.002%
132	9.685	9.670	9.707	VV	401	5380	0.05%	0.003%
133	9.779	9.730	9.796	PV	561	13417	0.13%	0.007%
134	9.822	9.796	9.843	VV	980	16641	0.16%	0.008%
135	9.857	9.843	9.863	VV	375	3626	0.04%	0.002%
136	9.877	9.863	9.885	VV	641	6582	0.06%	0.003%
137	9.900	9.885	9.915	VV	939	12077	0.12%	0.006%
138	9.932	9.915	9.957	VV	973	16847	0.16%	0.008%
139	9.976	9.957	9.989	VV	517	8146	0.08%	0.004%
140	10.010	9.989	10.036	VV	1599	19088	0.19%	0.009%
141	10.049	10.036	10.057	VV	322	3092	0.03%	0.002%

rteres

142	10.060	10.057	10.072	VV	316	2204	0.02%	0.001%
143	10.097	10.072	10.119	VV	870	16240	0.16%	0.008%
144	10.131	10.119	10.158	VV	927	12583	0.12%	0.006%
145	10.173	10.158	10.204	VV	1017	16348	0.16%	0.008%
146	10.241	10.204	10.245	VV	1242	19318	0.19%	0.010%
147	10.250	10.245	10.270	VV	1326	14116	0.14%	0.007%
148	10.288	10.270	10.294	VV	5085	44328	0.43%	0.022%
149	10.301	10.294	10.343	VV	4770	90742	0.89%	0.045%
150	10.362	10.343	10.402	VV	2787	46194	0.45%	0.023%
151	10.468	10.402	10.515	VV	919186	9737893	95.37%	4.813%
152	10.543	10.515	10.649	VV	826412	9821537	96.19%	4.854%
153	10.655	10.649	10.735	VV	5155	158646	1.55%	0.078%
154	10.739	10.735	10.745	VV	1684	9348	0.09%	0.005%
155	10.751	10.745	10.787	VV	1663	31644	0.31%	0.016%
156	10.802	10.787	10.847	VV	1009	26408	0.26%	0.013%
157	10.850	10.847	10.856	VV	666	3532	0.03%	0.002%
158	10.873	10.856	10.886	VV	1434	18259	0.18%	0.009%
159	10.891	10.886	10.900	VV	1164	8827	0.09%	0.004%
160	10.937	10.900	10.976	VV	74543	880787	8.63%	0.435%
161	10.993	10.976	11.007	VV	990	15777	0.15%	0.008%
162	11.028	11.007	11.088	VV	1310	34538	0.34%	0.017%
163	11.093	11.088	11.105	VV	424	2973	0.03%	0.001%
164	11.119	11.105	11.126	VV	366	3726	0.04%	0.002%
165	11.134	11.126	11.140	VV	371	2645	0.03%	0.001%
166	11.152	11.140	11.175	VV	460	6598	0.06%	0.003%
167	11.179	11.175	11.187	VV	226	1405	0.01%	0.001%
168	11.234	11.200	11.309	PV	478016	5197562	50.90%	2.569%
169	11.323	11.309	11.340	VV	1206	18645	0.18%	0.009%
170	11.343	11.340	11.364	VV	803	9899	0.10%	0.005%
171	11.372	11.364	11.378	VV	984	6608	0.06%	0.003%
172	11.407	11.378	11.435	VV	1922	37632	0.37%	0.019%
173	11.443	11.435	11.457	VV	448	4843	0.05%	0.002%
174	11.463	11.457	11.475	VV	340	3115	0.03%	0.002%
175	11.509	11.475	11.513	VV	1111	17109	0.17%	0.008%
176	11.522	11.513	11.552	VV	1204	24381	0.24%	0.012%
177	11.561	11.552	11.576	VV	1182	15808	0.15%	0.008%
178	11.588	11.576	11.616	VV	1425	27110	0.27%	0.013%
179	11.629	11.616	11.635	VV	827	8822	0.09%	0.004%
180	11.661	11.635	11.694	VV	7342	100043	0.98%	0.049%
181	11.705	11.694	11.721	VV	574	7697	0.08%	0.004%
182	11.731	11.721	11.749	VV	827	11893	0.12%	0.006%
183	11.755	11.749	11.779	VV	959	12231	0.12%	0.006%
184	11.816	11.779	11.837	VV	1893	42894	0.42%	0.021%
185	11.857	11.837	11.920	VV	27368	392477	3.84%	0.194%
186	11.932	11.920	11.959	VV	1876	34073	0.33%	0.017%
187	11.974	11.959	11.996	VV	1358	24934	0.24%	0.012%
188	12.009	11.996	12.035	VV	1284	24418	0.24%	0.012%
189	12.037	12.035	12.046	VV	929	4808	0.05%	0.002%
190	12.103	12.046	12.135	VV	7193	127813	1.25%	0.063%
191	12.147	12.135	12.159	VV	773	8543	0.08%	0.004%
192	12.179	12.159	12.196	VV	2052	26567	0.26%	0.013%
193	12.238	12.196	12.248	VV	76301	831869	8.15%	0.411%
194	12.273	12.248	12.417	VV	852748	10210561	100.00%	5.046%

rteres

195	12.419	12.417	12.425	VV	779	3495	0.03%	0.002%
196	12.440	12.425	12.448	VV	855	11371	0.11%	0.006%
197	12.468	12.448	12.515	VV	7122	103350	1.01%	0.051%
198	12.518	12.515	12.532	VV	803	7169	0.07%	0.004%
199	12.566	12.532	12.631	VV	865346	9902740	96.99%	4.894%
200	12.676	12.631	12.730	VV	94615	1298259	12.71%	0.642%
201	12.736	12.730	12.792	VV	1642	42454	0.42%	0.021%
202	12.846	12.792	12.885	VV	69040	849874	8.32%	0.420%
203	12.910	12.885	12.944	VV	4519	73734	0.72%	0.036%
204	12.961	12.944	12.969	VV	927	11854	0.12%	0.006%
205	12.974	12.969	12.977	VV	822	3842	0.04%	0.002%
206	12.989	12.977	13.007	VV	939	13626	0.13%	0.007%
207	13.012	13.007	13.016	VV	695	3494	0.03%	0.002%
208	13.042	13.016	13.062	VV	1107	24265	0.24%	0.012%
209	13.084	13.062	13.154	VV	9048	187617	1.84%	0.093%
210	13.161	13.154	13.168	VV	949	6925	0.07%	0.003%
211	13.176	13.168	13.216	VV	1013	21493	0.21%	0.011%
212	13.224	13.216	13.239	VV	725	8146	0.08%	0.004%
213	13.260	13.239	13.265	VV	918	12031	0.12%	0.006%
214	13.269	13.265	13.284	VV	825	8548	0.08%	0.004%
215	13.291	13.284	13.297	VV	823	5566	0.05%	0.003%
216	13.303	13.297	13.315	VV	782	6736	0.07%	0.003%
217	13.336	13.315	13.348	VV	839	12204	0.12%	0.006%
218	13.383	13.348	13.402	VV	2198	40734	0.40%	0.020%
219	13.429	13.402	13.476	VV	68084	826651	8.10%	0.409%
220	13.484	13.476	13.506	VV	417	6082	0.06%	0.003%
221	13.536	13.506	13.543	VV	467	7707	0.08%	0.004%
222	13.550	13.543	13.560	VV	326	2244	0.02%	0.001%
223	13.574	13.570	13.587	VV	254	1198	0.01%	0.001%
224	13.601	13.593	13.606	VV	227	1141	0.01%	0.001%
225	13.621	13.613	13.645	PV	96	1363	0.01%	0.001%
226	13.662	13.652	13.668	VV	326	1699	0.02%	0.001%
227	13.686	13.675	13.694	VV	308	2352	0.02%	0.001%
228	13.700	13.694	13.712	VV	279	1992	0.02%	0.001%
229	13.722	13.712	13.733	VV	292	2331	0.02%	0.001%
230	13.743	13.733	13.752	VV	196	1655	0.02%	0.001%
231	13.761	13.752	13.765	VV	288	1903	0.02%	0.001%
232	13.771	13.765	13.795	VV	412	4892	0.05%	0.002%
233	13.799	13.795	13.806	VV	293	1486	0.01%	0.001%
234	13.828	13.806	13.835	VV	532	5605	0.05%	0.003%
235	13.868	13.835	13.896	VV	1781	35299	0.35%	0.017%
236	13.900	13.896	13.929	VV	442	6777	0.07%	0.003%
237	13.959	13.929	13.975	PV	374	5501	0.05%	0.003%
238	13.992	13.975	14.012	VV	364	4836	0.05%	0.002%
239	14.024	14.012	14.042	VV	292	3511	0.03%	0.002%
240	14.047	14.042	14.051	VV	222	1088	0.01%	0.001%
241	14.057	14.051	14.068	VV	476	2482	0.02%	0.001%
242	14.092	14.068	14.113	VV	534	9723	0.10%	0.005%
243	14.128	14.113	14.140	VV	723	8637	0.08%	0.004%
244	14.156	14.140	14.167	VV	685	8714	0.09%	0.004%
245	14.171	14.167	14.179	VV	474	3369	0.03%	0.002%
246	14.190	14.179	14.199	VV	635	5945	0.06%	0.003%

rteres

247	14.201	14.199	14.207	VV	547	2494	0.02%	0.001%
248	14.211	14.207	14.234	VV	560	6331	0.06%	0.003%
249	14.246	14.234	14.271	VV	563	8422	0.08%	0.004%
250	14.301	14.271	14.319	VV	725	14645	0.14%	0.007%
251	14.330	14.319	14.358	VV	770	13114	0.13%	0.006%
252	14.371	14.358	14.387	VV	495	7583	0.07%	0.004%
253	14.392	14.387	14.399	VV	464	2475	0.02%	0.001%
254	14.437	14.399	14.455	VV	753429	9421292	92.27%	4.656%
255	14.479	14.455	14.507	VV	755607	9223421	90.33%	4.559%
256	14.525	14.507	14.666	VV	81419	1467633	14.37%	0.725%
257	14.670	14.666	14.676	VV	1500	7995	0.08%	0.004%
258	14.698	14.676	14.735	VV	1845	47661	0.47%	0.024%
259	14.740	14.735	14.764	VV	1034	14225	0.14%	0.007%
260	14.769	14.764	14.789	VV	757	9427	0.09%	0.005%
261	14.798	14.789	14.816	VV	620	8364	0.08%	0.004%
262	14.832	14.816	14.853	VV	783	13629	0.13%	0.007%
263	14.867	14.853	14.871	VV	681	6814	0.07%	0.003%
264	14.903	14.871	14.975	VV	14292	272159	2.67%	0.135%
265	14.981	14.975	15.017	VV	1413	28794	0.28%	0.014%
266	15.060	15.017	15.081	VV	2602	53162	0.52%	0.026%
267	15.087	15.081	15.096	VV	737	5700	0.06%	0.003%
268	15.105	15.096	15.120	VV	716	5931	0.06%	0.003%
269	15.126	15.120	15.137	VV	302	1937	0.02%	0.001%
270	15.147	15.137	15.165	VV	315	3066	0.03%	0.002%
271	15.175	15.165	15.185	VV	413	3612	0.04%	0.002%
272	15.242	15.185	15.260	VV	1271	28512	0.28%	0.014%
273	15.264	15.260	15.274	VV	664	4142	0.04%	0.002%
274	15.275	15.274	15.286	VV	493	2798	0.03%	0.001%
275	15.288	15.286	15.295	VV	401	1705	0.02%	0.001%
276	15.319	15.295	15.327	VV	506	7068	0.07%	0.003%
277	15.338	15.327	15.345	VV	665	5002	0.05%	0.002%
278	15.352	15.345	15.357	VV	639	4055	0.04%	0.002%
279	15.361	15.357	15.368	VV	621	3422	0.03%	0.002%
280	15.388	15.368	15.394	VV	734	9750	0.10%	0.005%
281	15.397	15.394	15.408	VV	869	5906	0.06%	0.003%
282	15.420	15.408	15.467	VV	819	24666	0.24%	0.012%
283	15.504	15.467	15.512	VV	1496	23618	0.23%	0.012%
284	15.542	15.512	15.576	VV	59045	774946	7.59%	0.383%
285	15.584	15.576	15.618	VV	716	13705	0.13%	0.007%
286	15.633	15.618	15.654	VV	450	5322	0.05%	0.003%
287	15.660	15.654	15.678	VV	237	1702	0.02%	0.001%
288	15.699	15.678	15.745	VV	1497	21848	0.21%	0.011%
289	15.747	15.745	15.777	VV	327	3844	0.04%	0.002%
290	15.784	15.777	15.793	VV	436	2429	0.02%	0.001%
291	15.805	15.793	15.813	VV	341	2646	0.03%	0.001%
292	15.827	15.813	15.856	VV	465	7662	0.08%	0.004%
293	15.863	15.856	15.874	VV	241	2324	0.02%	0.001%
294	15.913	15.874	15.949	VV	1507	34267	0.34%	0.017%
295	15.987	15.949	16.001	VV	709435	9405943	92.12%	4.649%
296	16.022	16.001	16.084	VV	779727	9614362	94.16%	4.752%
297	16.099	16.084	16.137	VV	6515	135808	1.33%	0.067%
298	16.141	16.137	16.174	VV	2011	38155	0.37%	0.019%
299	16.180	16.174	16.186	VV	1603	11122	0.11%	0.005%

rteres

300	16.191	16.186	16.205	VV	1655	17622	0.17%	0.009%
301	16.220	16.205	16.248	VV	1716	38866	0.38%	0.019%
302	16.266	16.248	16.299	VV	3050	55816	0.55%	0.028%
303	16.302	16.299	16.314	VV	1126	8630	0.08%	0.004%
304	16.362	16.314	16.458	VV	658504	9102311	89.15%	4.499%
305	16.485	16.458	16.512	VV	63370	924994	9.06%	0.457%
306	16.528	16.512	16.561	VV	10257	168263	1.65%	0.083%
307	16.565	16.561	16.617	VV	2021	51064	0.50%	0.025%
308	16.622	16.617	16.657	VV	1167	23795	0.23%	0.012%
309	16.665	16.657	16.675	VV	845	8655	0.08%	0.004%
310	16.681	16.675	16.683	VV	740	3579	0.04%	0.002%
311	16.697	16.683	16.718	VV	996	17435	0.17%	0.009%
312	16.723	16.718	16.725	VV	769	3414	0.03%	0.002%
313	16.730	16.725	16.737	VV	818	5004	0.05%	0.002%
314	16.739	16.737	16.750	VV	708	4898	0.05%	0.002%
315	16.753	16.750	16.765	VV	781	5759	0.06%	0.003%
316	16.795	16.765	16.828	VV	1794	42802	0.42%	0.021%
317	16.855	16.828	16.900	VV	1463	43524	0.43%	0.022%
318	16.932	16.900	16.997	VV	2508	67778	0.66%	0.033%
319	17.012	16.997	17.044	VV	989	23107	0.23%	0.011%
320	17.049	17.044	17.078	VV	931	16940	0.17%	0.008%
321	17.083	17.078	17.096	VV	843	7437	0.07%	0.004%
322	17.113	17.096	17.125	VV	884	13431	0.13%	0.007%
323	17.144	17.125	17.154	VV	860	13634	0.13%	0.007%
324	17.164	17.154	17.181	VV	1187	15224	0.15%	0.008%
325	17.185	17.181	17.191	VV	902	5378	0.05%	0.003%
326	17.198	17.191	17.207	VV	956	8053	0.08%	0.004%
327	17.234	17.207	17.241	VV	1132	20298	0.20%	0.010%
328	17.256	17.241	17.288	VV	1546	35348	0.35%	0.017%
329	17.293	17.288	17.312	VV	1234	15198	0.15%	0.008%
330	17.370	17.312	17.407	VV	56292	802346	7.86%	0.397%
331	17.414	17.407	17.424	VV	1160	9965	0.10%	0.005%
332	17.457	17.424	17.486	VV	3058	64042	0.63%	0.032%
333	17.497	17.486	17.513	VV	1082	16320	0.16%	0.008%
334	17.519	17.513	17.545	VV	1046	17432	0.17%	0.009%
335	17.572	17.545	17.590	VV	1071	24613	0.24%	0.012%
336	17.618	17.590	17.638	VV	1038	26047	0.26%	0.013%
337	17.663	17.638	17.677	VV	1240	25906	0.25%	0.013%
338	17.734	17.677	17.746	VV	646147	8963404	87.79%	4.430%
339	17.767	17.746	17.943	VV	585316	9337294	91.45%	4.615%
340	17.984	17.943	18.154	VV	596885	9344801	91.52%	4.619%
341	18.195	18.154	18.229	VV	55883	887184	8.69%	0.438%
342	18.236	18.229	18.262	VV	3659	66226	0.65%	0.033%
343	18.297	18.262	18.300	VBA	4578	84196	0.82%	0.042%

Sum of corrected areas: 202333013

Aromatic EPH 021125.M Sat Mar 01 04:02:09 2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06	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
FC068313.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	203		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	160		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	241		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	321		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	538		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.6		40 - 140	71%	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:	Q1421-06	Acq On:	27 Feb 2025 14:40
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FC068313.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	3.104	6.370	14340746	101.682	300	ug/ml
Aliphatic C12-C16	6.371	9.754	10947218	80.109	200	ug/ml
Aliphatic C16-C21	9.755	13.108	15865145	120.528	300	ug/ml
Aliphatic C21-C28	13.109	16.762	19693441	160.512	400	ug/ml
Aliphatic C28-C40	16.763	21.566	27692602	269.262	600	ug/ml
Aliphatic EPH	3.104	21.566	88539152	732.092		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.841	12.841	4007052	35.63		ug/ml
Aliphatic C9-C28	3.104	16.762	60846550	462.831	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068313.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1421-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Integration File: autoint1.e
Quant Time: Mar 05 04:44:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
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...	12.841	4007052	35.626 ug/ml
Spiked Amount	50.000		Recovery =	71.25%
	Target Compounds			
1) T	n-Nonane (C9)	3.206	4075170	28.968 ug/ml
2) T	n-Decane (C10)	4.263	4634108	32.710 ug/ml
4) T	n-Dodecane (C12)	6.271	4945718	35.136 ug/ml
6) T	n-Tetradecane (C14)	8.060	5044150	36.996 ug/ml
7) T	n-Hexadecane (C16)	9.656	5038611	36.787 ug/ml
8) T	n-Octadecane (C18)	11.095	5125788	37.481 ug/ml
10) T	n-Eicosane (C20)	12.401	5216568	40.039 ug/ml
11) T	n-Heneicosane (C21)	13.011	4984588	38.989 ug/ml
13) T	n-Docosane (C22)	13.597	4970885	39.443 ug/ml
14) T	n-Tetracosane (C24)	14.698	4884334	39.270 ug/ml
15) T	n-Hexacosane (C26)	15.716	4778837	39.302 ug/ml
16) T	n-Octacosane (C28)	16.665	4638223	39.053 ug/ml
17) T	n-Tricontane (C30)	17.551	4684203	38.916 ug/mlm
18) T	n-Dotriacontane (C32)	18.384	4515767	38.907 ug/mlm
19) T	n-Tetratriacontane (C34)	19.166	4229541	39.141 ug/ml
20) T	n-Hexatriacontane (C36)	19.904	3881880	40.365 ug/ml
21) T	n-Octatriacontane (C38)	20.617	3693801	41.089 ug/ml
22) T	n-Tetracontane (C40)	21.472	3548032	41.008 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC022725AL\
Data File : FC068313.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1421-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

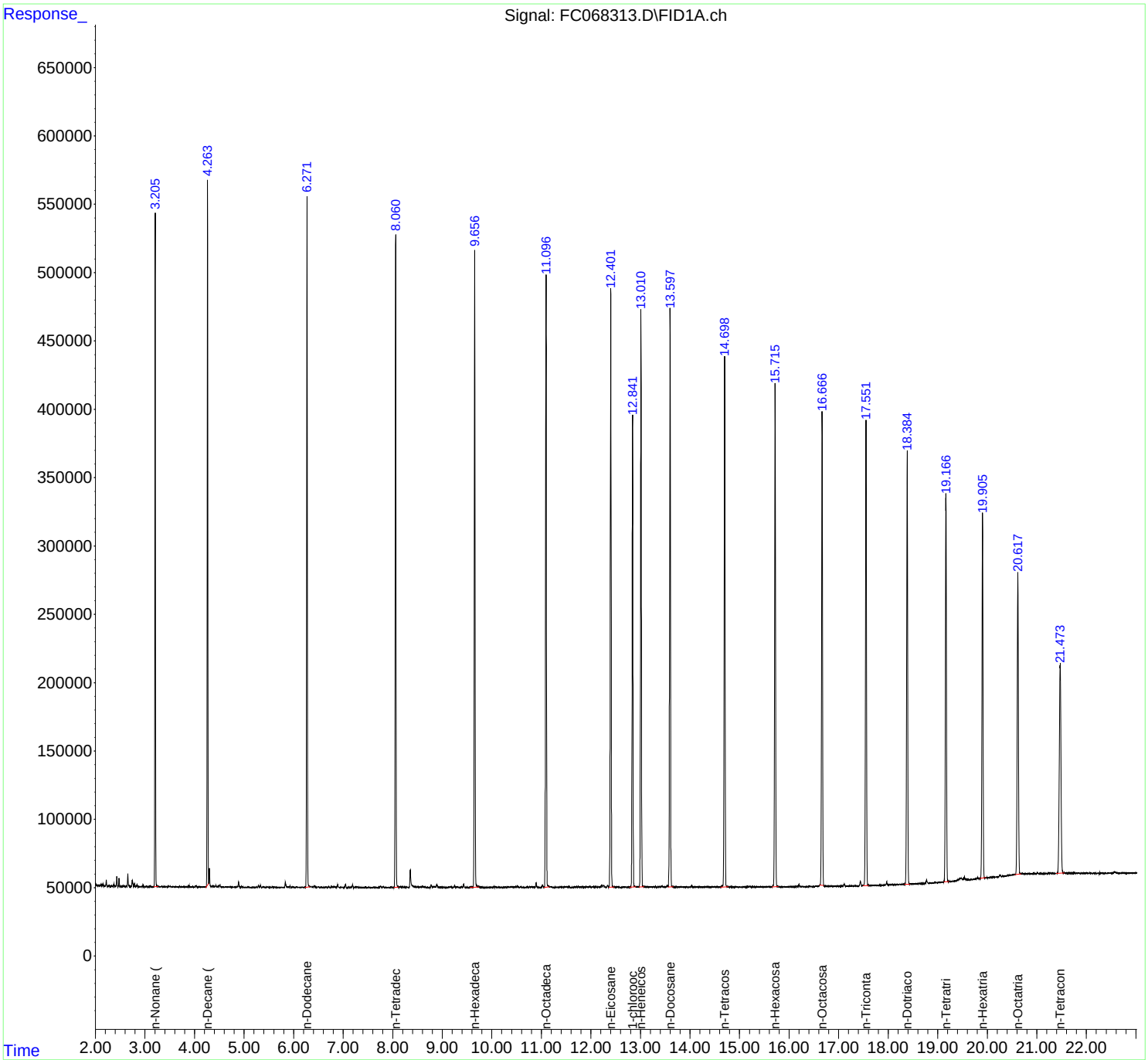
Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

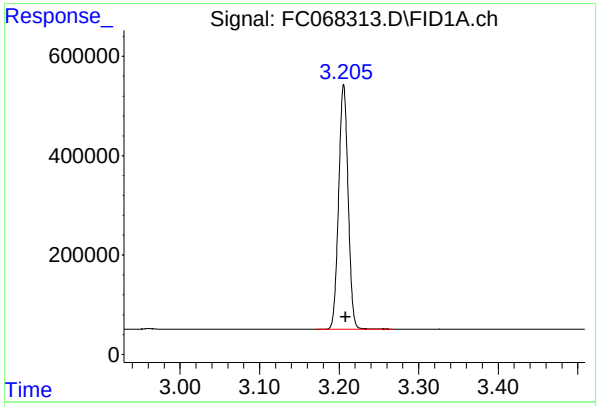
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Integration File: autoint1.e
Quant Time: Mar 05 04:44:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Mar 05 03:08:52 2025
Response via : Initial Calibration
Integrator: ChemStation

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





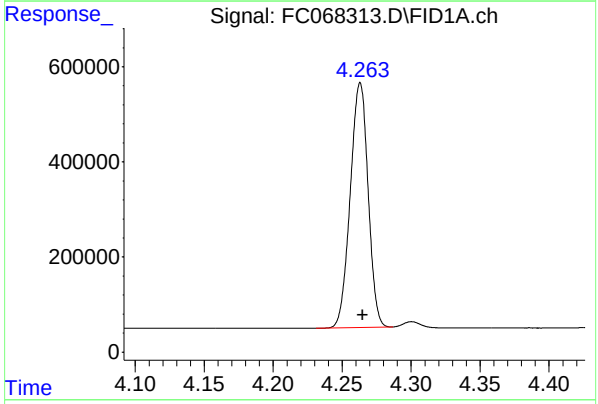
#1 n-Nonane (C9)

R.T.: 3.206 min
Delta R.T.: -0.002 min
Response: 4075170
Conc: 28.97 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

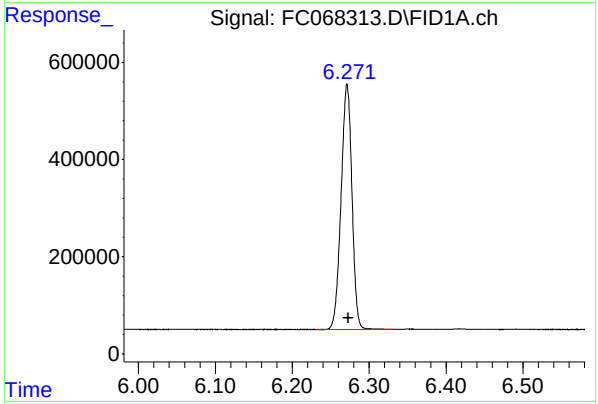
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



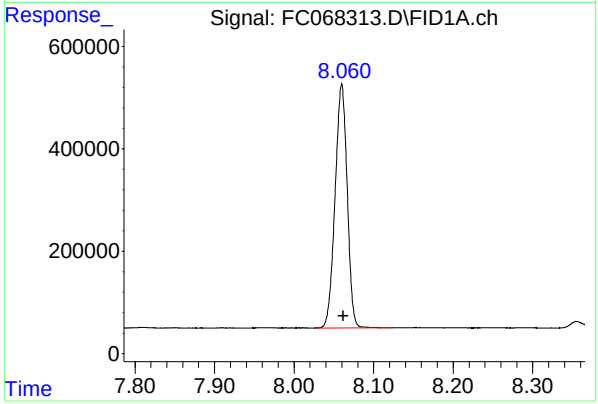
#2 n-Decane (C10)

R.T.: 4.263 min
Delta R.T.: -0.002 min
Response: 4634108
Conc: 32.71 ug/ml



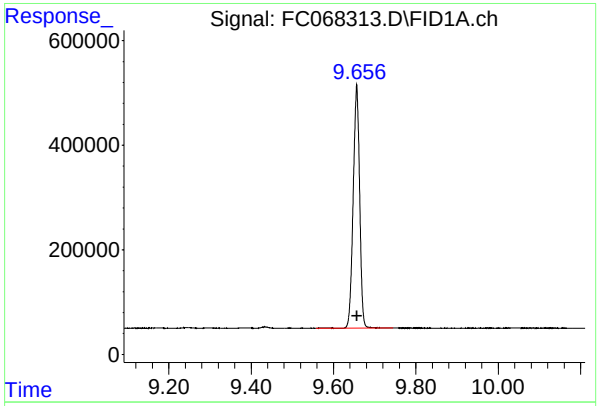
#4 n-Dodecane (C12)

R.T.: 6.271 min
Delta R.T.: -0.002 min
Response: 4945718
Conc: 35.14 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.060 min
Delta R.T.: -0.002 min
Response: 5044150
Conc: 37.00 ug/ml



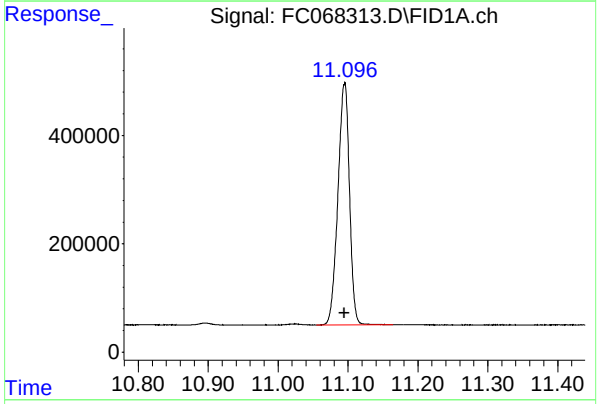
#7 n-Hexadecane (C16)

R.T.: 9.656 min
Delta R.T.: -0.001 min
Response: 5038611
Conc: 36.79 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

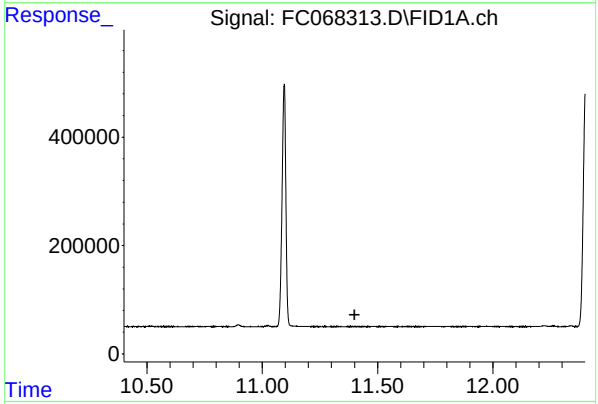
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



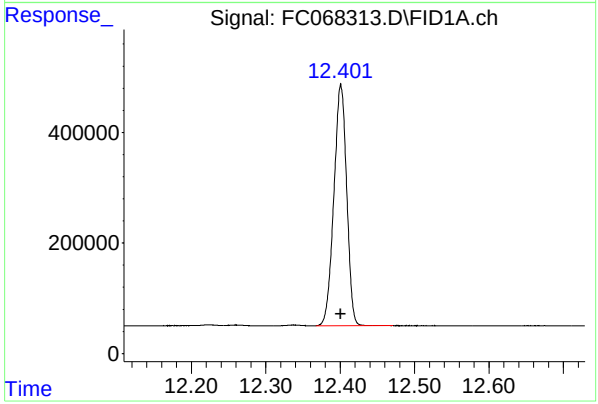
#8 n-Octadecane (C18)

R.T.: 11.095 min
Delta R.T.: 0.000 min
Response: 5125788
Conc: 37.48 ug/ml



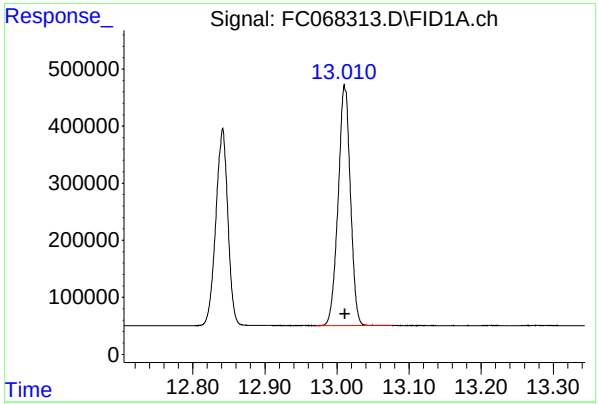
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.400 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 12.401 min
Delta R.T.: 0.000 min
Response: 5216568
Conc: 40.04 ug/ml



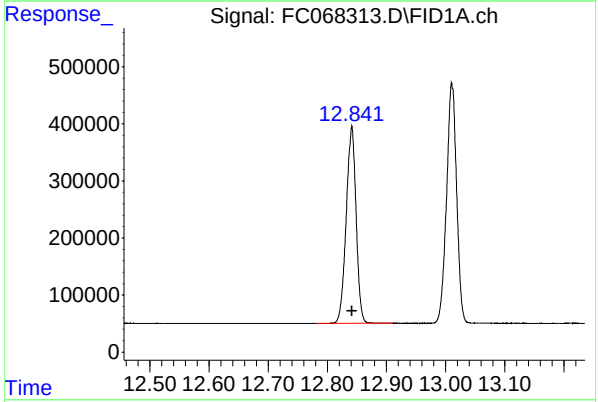
#11 n-Heneicosane (C21)

R.T.: 13.011 min
Delta R.T.: 0.000 min
Response: 4984588
Conc: 38.99 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

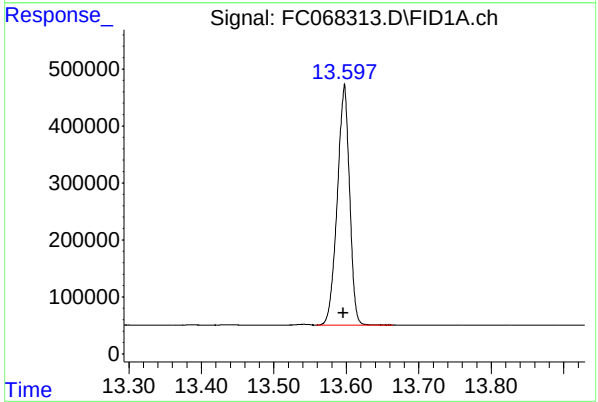
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



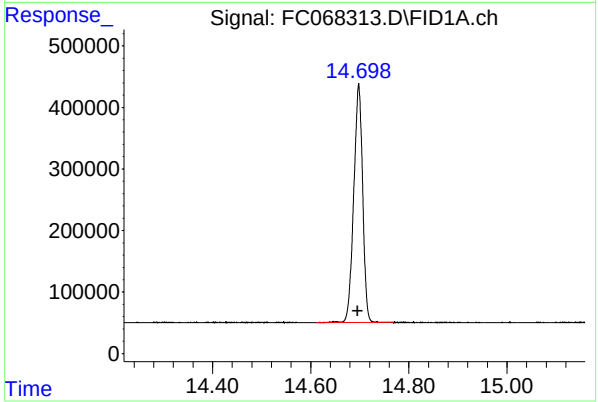
#12 1-chlorooctadecane (SURR)

R.T.: 12.841 min
Delta R.T.: 0.000 min
Response: 4007052
Conc: 35.63 ug/ml



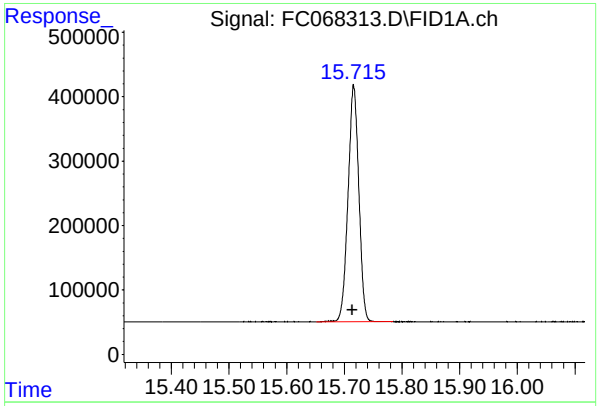
#13 n-Docosane (C22)

R.T.: 13.597 min
Delta R.T.: 0.001 min
Response: 4970885
Conc: 39.44 ug/ml



#14 n-Tetracosane (C24)

R.T.: 14.698 min
Delta R.T.: 0.002 min
Response: 4884334
Conc: 39.27 ug/ml



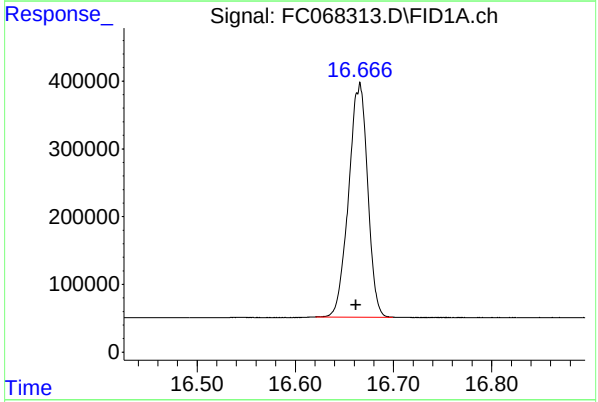
#15 n-Hexacosane (C26)

R.T.: 15.716 min
Delta R.T.: 0.002 min
Response: 4778837
Conc: 39.30 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

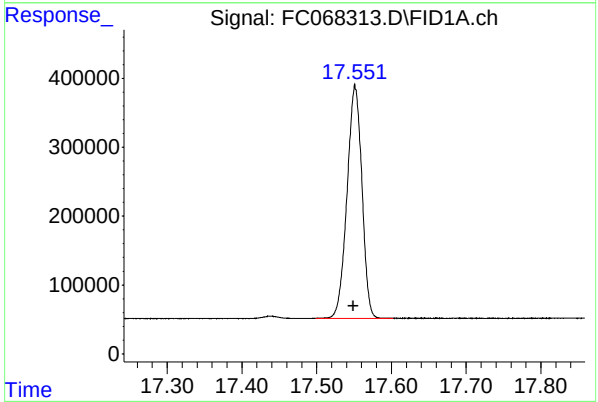
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



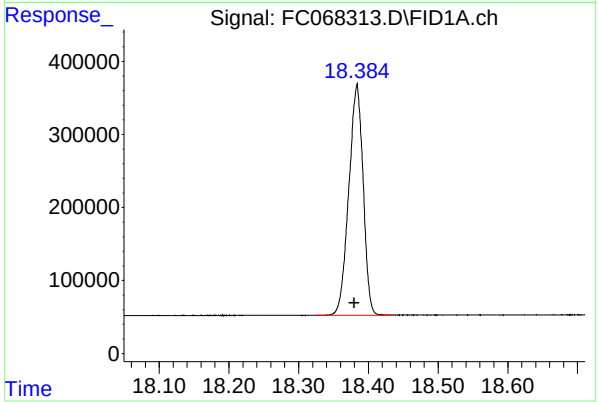
#16 n-Octacosane (C28)

R.T.: 16.665 min
Delta R.T.: 0.003 min
Response: 4638223
Conc: 39.05 ug/ml



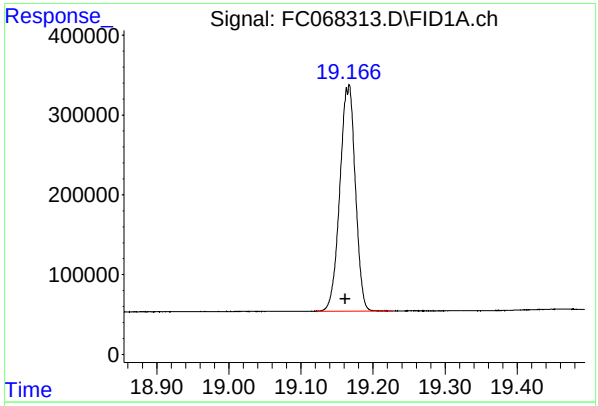
#17 n-Tricontane (C30)

R.T.: 17.551 min
Delta R.T.: 0.002 min
Response: 4684203
Conc: 38.92 ug/ml m



#18 n-Dotriacontane (C32)

R.T.: 18.384 min
Delta R.T.: 0.004 min
Response: 4515767
Conc: 38.91 ug/ml m



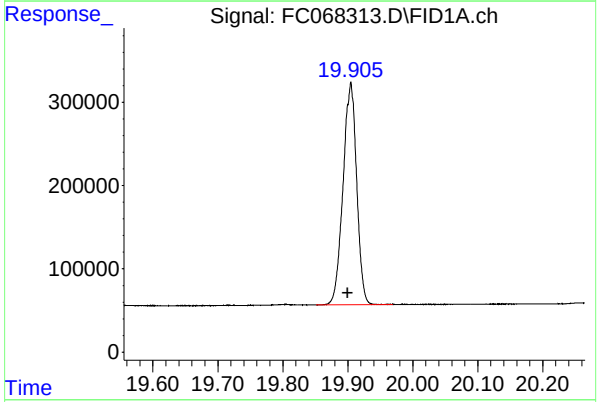
#19 n-Tetratriacontane (C34)

R.T.: 19.166 min
Delta R.T.: 0.005 min
Response: 4229541
Conc: 39.14 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

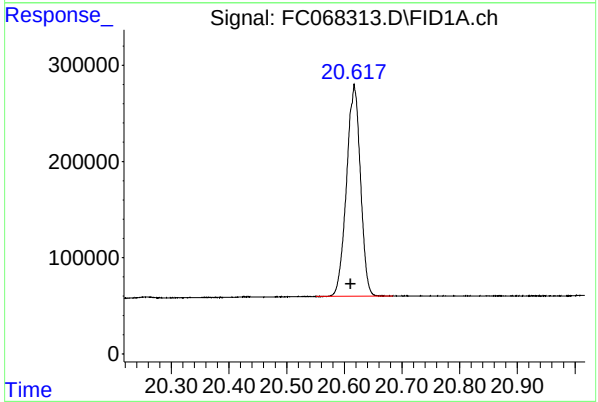
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025



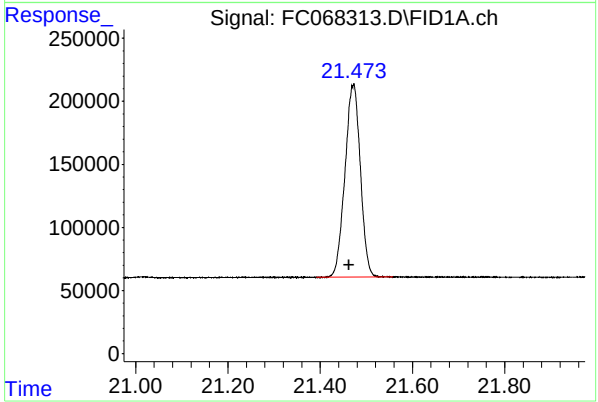
#20 n-Hexatriacontane (C36)

R.T.: 19.904 min
Delta R.T.: 0.004 min
Response: 3881880
Conc: 40.37 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.617 min
Delta R.T.: 0.006 min
Response: 3693801
Conc: 41.09 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.472 min
Delta R.T.: 0.009 min
Response: 3548032
Conc: 41.01 ug/ml

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02272
Data File : FC068313.D
Signal(s) : FID1A.ch
Acq On : 27 Feb 2025 14:40
Sample : Q1421-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 021125.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	2.374	2.304	2.400	BV	1797	16289	0.31%	0.017%
2	2.431	2.400	2.455	PV	7316	61794	1.18%	0.066%
3	2.476	2.455	2.521	VV	6082	51862	0.99%	0.056%
4	2.527	2.521	2.540	VV	168	1556	0.03%	0.002%
5	2.558	2.540	2.572	VV	373	4049	0.08%	0.004%
6	2.592	2.572	2.633	VV	281	4792	0.09%	0.005%
7	2.654	2.633	2.720	VV	9368	81240	1.55%	0.087%
8	2.742	2.720	2.771	VV	4692	61221	1.17%	0.066%
9	2.788	2.771	2.813	VV	2455	23497	0.45%	0.025%
10	2.839	2.813	2.898	VV	1765	19983	0.38%	0.021%
11	2.915	2.898	2.941	VV	310	3550	0.07%	0.004%
12	2.961	2.941	3.006	VV	1469	14025	0.27%	0.015%
13	3.030	3.006	3.080	VV	208	5200	0.10%	0.006%
14	3.100	3.080	3.142	VV	271	3645	0.07%	0.004%
15	3.206	3.142	3.308	PV	487352	4092666	78.06%	4.395%
16	3.328	3.308	3.366	VV	384	7846	0.15%	0.008%
17	3.381	3.366	3.394	VV	208	2879	0.05%	0.003%
18	3.405	3.394	3.428	VV	292	3760	0.07%	0.004%
19	3.442	3.428	3.451	VV	203	1785	0.03%	0.002%
20	3.479	3.451	3.494	VV	370	6205	0.12%	0.007%
21	3.512	3.494	3.546	VV	410	7154	0.14%	0.008%
22	3.574	3.546	3.598	VV	235	3585	0.07%	0.004%
23	3.615	3.598	3.668	VV	198	3800	0.07%	0.004%
24	3.693	3.668	3.727	PV	407	5735	0.11%	0.006%
25	3.737	3.727	3.759	VV	143	1732	0.03%	0.002%
26	3.777	3.759	3.795	VV	316	3721	0.07%	0.004%
27	3.866	3.795	3.878	VV	639	8737	0.17%	0.009%
28	3.894	3.878	3.914	VV	1015	10521	0.20%	0.011%
29	3.921	3.914	3.937	VV	132	1248	0.02%	0.001%
30	3.958	3.937	3.985	VV	205	2662	0.05%	0.003%
31	4.028	3.985	4.148	PV	935	21611	0.41%	0.023%
32	4.151	4.148	4.158	VV	81	304	0.01%	0.000%
33	4.217	4.158	4.234	VV	144	3695	0.07%	0.004%
34	4.263	4.234	4.287	VV	520395	4680813	89.28%	5.027%
35	4.301	4.287	4.347	VV	13746	143044	2.73%	0.154%
36	4.373	4.347	4.394	VV	657	14836	0.28%	0.016%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

37	4.429	4.394	4.449	VV	1396	21771	0.42%	0.023%
38	4.458	4.449	4.467	VV	397	3572		
39	4.484	4.467	4.498	VV	1038	11416		
40	4.514	4.498	4.571	VV	1941	24517		
41	4.587	4.571	4.608	VV	285	3564		
42	4.634	4.608	4.658	VV	319	6178		
43	4.669	4.658	4.691	VV	130	2359	0.05%	0.003%
44	4.711	4.691	4.764	VV	208	5141	0.10%	0.006%
45	4.782	4.764	4.792	PV	110	1109	0.02%	0.001%
46	4.811	4.792	4.846	VV	240	3450	0.07%	0.004%
47	4.890	4.846	4.924	VV	4053	50341	0.96%	0.054%
48	4.947	4.924	4.963	VV	772	8619	0.16%	0.009%
49	4.972	4.963	5.011	VV	282	4469	0.09%	0.005%
50	5.020	5.011	5.048	VV	121	798	0.02%	0.001%
51	5.081	5.048	5.149	VV	248	6858	0.13%	0.007%
52	5.160	5.149	5.219	VV	153	4152	0.08%	0.004%
53	5.256	5.219	5.271	VV	169	2798	0.05%	0.003%
54	5.292	5.271	5.314	PV	1769	19495	0.37%	0.021%
55	5.332	5.314	5.358	VV	1333	15716	0.30%	0.017%
56	5.387	5.358	5.417	VV	280	5000	0.10%	0.005%
57	5.472	5.417	5.511	VV	285	8101	0.15%	0.009%
58	5.533	5.511	5.553	VV	136	2142	0.04%	0.002%
59	5.584	5.553	5.598	VV	283	4886	0.09%	0.005%
60	5.624	5.598	5.698	PV	193	5074	0.10%	0.005%
61	5.707	5.698	5.726	VV	77	662	0.01%	0.001%
62	5.739	5.726	5.782	PV	153	2940	0.06%	0.003%
63	5.792	5.782	5.803	VV	175	1515	0.03%	0.002%
64	5.834	5.803	5.873	VV	3909	52540	1.00%	0.056%
65	5.887	5.873	5.907	VV	553	8097	0.15%	0.009%
66	5.929	5.907	5.958	VV	1011	13415	0.26%	0.014%
67	5.991	5.958	6.031	VV	519	10452	0.20%	0.011%
68	6.061	6.031	6.095	VV	417	9704	0.19%	0.010%
69	6.104	6.095	6.113	VV	208	1864	0.04%	0.002%
70	6.118	6.113	6.135	VV	162	1679	0.03%	0.002%
71	6.162	6.135	6.187	VV	177	3606	0.07%	0.004%
72	6.199	6.187	6.231	VV	164	2956	0.06%	0.003%
73	6.271	6.231	6.337	VV	503906	4966516	94.73%	5.334%
74	6.352	6.337	6.374	VV	945	14935	0.28%	0.016%
75	6.385	6.374	6.401	VV	609	7720	0.15%	0.008%
76	6.417	6.401	6.441	VV	1419	18447	0.35%	0.020%
77	6.450	6.441	6.474	VV	552	7015	0.13%	0.008%
78	6.491	6.474	6.568	VV	735	14955	0.29%	0.016%
79	6.587	6.568	6.611	VV	258	4612	0.09%	0.005%
80	6.631	6.611	6.690	VV	218	7443	0.14%	0.008%
81	6.709	6.690	6.733	VV	633	7863	0.15%	0.008%
82	6.762	6.733	6.781	VV	714	10631	0.20%	0.011%
83	6.789	6.781	6.797	VV	399	3794	0.07%	0.004%
84	6.812	6.797	6.856	VV	689	13970	0.27%	0.015%
85	6.888	6.856	6.947	VV	1982	32188	0.61%	0.035%
86	6.994	6.947	7.018	VV	276	7437	0.14%	0.008%
87	7.049	7.018	7.082	VV	2571	29566	0.56%	0.032%
88	7.126	7.082	7.141	VV	335	7293	0.14%	0.008%
89	7.157	7.141	7.168	VV	426	4774	0.09%	0.005%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

rteres

90	7.190	7.168	7.218	VV	2100	25808	0.49%	0.028%
91	7.227	7.218	7.236	VV	264	2152		
92	7.252	7.236	7.268	VV	443	5449		
93	7.281	7.268	7.311	VV	526	6705		
94	7.338	7.311	7.384	VV	167	4447		
95	7.407	7.384	7.426	VV	131	1878		
96	7.450	7.426	7.486	VV	851	10695	0.20%	0.011%
97	7.529	7.486	7.576	PV	195	7144	0.14%	0.008%
98	7.608	7.576	7.634	VV	252	5837	0.11%	0.006%
99	7.643	7.634	7.688	VV	205	3920	0.07%	0.004%
100	7.711	7.688	7.732	PV	326	3704	0.07%	0.004%
101	7.754	7.732	7.784	VV	1091	13501	0.26%	0.014%
102	7.810	7.784	7.833	VV	968	12788	0.24%	0.014%
103	7.848	7.833	7.865	VV	203	2356	0.04%	0.003%
104	7.875	7.865	7.898	VV	107	1190	0.02%	0.001%
105	7.910	7.898	7.940	VV	186	2210	0.04%	0.002%
106	7.965	7.940	7.998	VV	678	8733	0.17%	0.009%
107	8.008	7.998	8.023	VV	194	1841	0.04%	0.002%
108	8.060	8.023	8.133	VV	475637	5061560	96.54%	5.436%
109	8.153	8.133	8.189	VV	755	17708	0.34%	0.019%
110	8.206	8.189	8.226	VV	433	7101	0.14%	0.008%
111	8.249	8.226	8.274	VV	456	8399	0.16%	0.009%
112	8.290	8.274	8.318	VV	586	6417	0.12%	0.007%
113	8.355	8.318	8.432	PV	12908	197011	3.76%	0.212%
114	8.450	8.432	8.495	VV	734	19950	0.38%	0.021%
115	8.517	8.495	8.534	VV	601	10636	0.20%	0.011%
116	8.544	8.534	8.574	VV	500	9179	0.18%	0.010%
117	8.597	8.574	8.634	VV	764	16925	0.32%	0.018%
118	8.657	8.634	8.683	VV	320	4715	0.09%	0.005%
119	8.707	8.683	8.738	VV	342	4537	0.09%	0.005%
120	8.777	8.738	8.798	VV	1990	26813	0.51%	0.029%
121	8.814	8.798	8.860	VV	745	20367	0.39%	0.022%
122	8.891	8.860	8.943	VV	2018	38049	0.73%	0.041%
123	8.964	8.943	8.985	VV	444	6517	0.12%	0.007%
124	9.014	8.985	9.044	VV	341	5333	0.10%	0.006%
125	9.067	9.044	9.081	PV	175	2600	0.05%	0.003%
126	9.118	9.081	9.128	VV	328	5640	0.11%	0.006%
127	9.135	9.128	9.146	VV	301	2579	0.05%	0.003%
128	9.176	9.146	9.218	VV	595	12132	0.23%	0.013%
129	9.247	9.218	9.275	VV	1133	19362	0.37%	0.021%
130	9.296	9.275	9.328	VV	772	11156	0.21%	0.012%
131	9.338	9.328	9.361	VV	192	3094	0.06%	0.003%
132	9.390	9.361	9.414	VV	681	11120	0.21%	0.012%
133	9.434	9.414	9.476	VV	2613	30130	0.57%	0.032%
134	9.493	9.476	9.514	VV	234	2663	0.05%	0.003%
135	9.523	9.514	9.537	VV	176	1399	0.03%	0.002%
136	9.575	9.537	9.613	VV	653	13273	0.25%	0.014%
137	9.656	9.613	9.850	VV	459523	5072787	96.76%	5.448%
138	9.872	9.850	9.884	VV	134	1800	0.03%	0.002%
139	9.894	9.884	9.913	VV	162	1581	0.03%	0.002%
140	9.932	9.913	9.946	VV	194	2777	0.05%	0.003%
141	9.972	9.946	10.003	VV	322	6082	0.12%	0.007%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

142	10.047	10.003	10.064	VV	473	9713	0.19%	0.010%
143	10.081	10.064	10.103	VV	337	5677		
144	10.129	10.103	10.152	VV	239	5813		
145	10.161	10.152	10.188	VV	198	2232		
146	10.251	10.188	10.265	PV	354	6607		
147	10.283	10.265	10.304	VV	298	5482		
148	10.329	10.304	10.367	VV	480	11653	0.22%	0.013%
149	10.395	10.367	10.431	VV	565	13708	0.26%	0.015%
150	10.450	10.431	10.460	VV	397	4984	0.10%	0.005%
151	10.478	10.460	10.490	VV	366	5800	0.11%	0.006%
152	10.515	10.490	10.554	VV	1017	18195	0.35%	0.020%
153	10.605	10.554	10.626	VV	310	8082	0.15%	0.009%
154	10.637	10.626	10.660	VV	108	1895	0.04%	0.002%
155	10.717	10.660	10.744	VV	474	10524	0.20%	0.011%
156	10.763	10.744	10.790	VV	667	9886	0.19%	0.011%
157	10.813	10.790	10.832	VV	511	8199	0.16%	0.009%
158	10.844	10.832	10.868	VV	222	3165	0.06%	0.003%
159	10.896	10.868	10.936	VV	3578	42174	0.80%	0.045%
160	10.951	10.936	10.970	PV	121	988	0.02%	0.001%
161	11.024	10.970	11.058	VV	2010	27012	0.52%	0.029%
162	11.095	11.058	11.168	VV	447108	5144925	98.13%	5.525%
163	11.185	11.168	11.231	VV	703	15192	0.29%	0.016%
164	11.242	11.231	11.258	VV	188	2251	0.04%	0.002%
165	11.271	11.258	11.286	VV	137	1713	0.03%	0.002%
166	11.317	11.286	11.361	VV	204	5594	0.11%	0.006%
167	11.479	11.361	11.527	VV	483	21330	0.41%	0.023%
168	11.562	11.527	11.598	VV	361	10061	0.19%	0.011%
169	11.615	11.598	11.626	VV	154	1924	0.04%	0.002%
170	11.658	11.626	11.671	VV	249	3838	0.07%	0.004%
171	11.753	11.671	11.788	VV	569	24018	0.46%	0.026%
172	11.799	11.788	11.828	VV	306	6457	0.12%	0.007%
173	11.838	11.828	11.850	VV	164	2116	0.04%	0.002%
174	11.865	11.850	11.874	VV	201	2278	0.04%	0.002%
175	11.892	11.874	11.909	VV	347	5535	0.11%	0.006%
176	11.916	11.909	11.932	VV	373	3377	0.06%	0.004%
177	11.973	11.932	12.011	VV	671	17432	0.33%	0.019%
178	12.047	12.011	12.072	VV	418	9443	0.18%	0.010%
179	12.095	12.072	12.134	VV	332	6881	0.13%	0.007%
180	12.172	12.134	12.184	VV	343	6842	0.13%	0.007%
181	12.223	12.184	12.243	VV	1848	31253	0.60%	0.034%
182	12.261	12.243	12.311	VV	1459	21462	0.41%	0.023%
183	12.338	12.311	12.364	VV	1480	19776	0.38%	0.021%
184	12.401	12.364	12.638	VV	435383	5242770	100.00%	5.630%
185	12.655	12.638	12.664	VV	203	2677	0.05%	0.003%
186	12.673	12.664	12.737	VV	289	6130	0.12%	0.007%
187	12.841	12.737	12.941	PV	343205	4039887	77.06%	4.338%
188	12.955	12.941	12.974	VV	436	7313	0.14%	0.008%
189	13.011	12.974	13.188	VV	419425	5028528	95.91%	5.400%
190	13.213	13.188	13.241	VV	367	8989	0.17%	0.010%
191	13.279	13.241	13.331	VV	448	15744	0.30%	0.017%
192	13.353	13.331	13.368	VV	303	5137	0.10%	0.006%
193	13.386	13.368	13.411	VV	590	10128	0.19%	0.011%
194	13.436	13.411	13.487	VV	874	18237	0.35%	0.020%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

195	13.498	13.487	13.508	VV	219	2111	0.04%	0.002%
196	13.541	13.508	13.561	VV	1632	22790		
197	13.597	13.561	13.711	VV	421828	4994012	95	
198	13.720	13.711	13.756	VV	204	3390		
199	13.791	13.756	13.814	VV	154	4012		
200	13.819	13.814	13.825	VV	201	986		
201	13.843	13.825	13.871	VV	176	3706	0.07%	0.004%
202	13.875	13.871	13.905	VV	205	2355	0.04%	0.003%
203	13.926	13.905	13.962	VV	160	3212	0.06%	0.003%
204	13.970	13.962	13.979	VV	81	659	0.01%	0.001%
205	14.031	13.979	14.068	VV	1197	20188	0.39%	0.022%
206	14.075	14.068	14.081	VV	166	1471	0.03%	0.002%
207	14.092	14.081	14.108	VV	215	2783	0.05%	0.003%
208	14.157	14.108	14.201	VV	350	10396	0.20%	0.011%
209	14.213	14.201	14.227	VV	174	2016	0.04%	0.002%
210	14.248	14.227	14.259	VV	220	2475	0.05%	0.003%
211	14.312	14.259	14.344	VV	274	8658	0.17%	0.009%
212	14.353	14.344	14.382	VV	197	3167	0.06%	0.003%
213	14.408	14.382	14.454	VV	219	7438	0.14%	0.008%
214	14.466	14.454	14.479	VV	261	3141	0.06%	0.003%
215	14.504	14.479	14.528	VV	254	5347	0.10%	0.006%
216	14.553	14.528	14.593	VV	254	5382	0.10%	0.006%
217	14.650	14.593	14.660	VV	1375	17815	0.34%	0.019%
218	14.698	14.660	14.804	VV	386026	4883489	93.15%	5.244%
219	14.810	14.804	14.848	VV	174	2817	0.05%	0.003%
220	14.862	14.848	14.895	VV	272	4676	0.09%	0.005%
221	14.903	14.895	14.982	VV	154	3812	0.07%	0.004%
222	15.005	14.982	15.028	PV	110	1465	0.03%	0.002%
223	15.034	15.028	15.064	VV	72	1045	0.02%	0.001%
224	15.071	15.064	15.081	PV	52	564	0.01%	0.001%
225	15.099	15.081	15.106	VV	76	744	0.01%	0.001%
226	15.121	15.106	15.149	VV	197	2648	0.05%	0.003%
227	15.179	15.149	15.191	VV	189	3034	0.06%	0.003%
228	15.216	15.191	15.242	VV	743	10558	0.20%	0.011%
229	15.250	15.242	15.290	VV	145	2073	0.04%	0.002%
230	15.345	15.290	15.358	VV	109	3240	0.06%	0.003%
231	15.366	15.358	15.381	VV	163	1855	0.04%	0.002%
232	15.404	15.381	15.438	VV	197	4854	0.09%	0.005%
233	15.453	15.438	15.486	VV	159	2776	0.05%	0.003%
234	15.566	15.486	15.631	PV	255	13223	0.25%	0.014%
235	15.642	15.631	15.650	VV	152	1100	0.02%	0.001%
236	15.716	15.650	15.799	VV	364062	4792630	91.41%	5.147%
237	15.807	15.799	15.855	VV	210	4354	0.08%	0.005%
238	15.866	15.855	15.903	VV	120	2876	0.05%	0.003%
239	15.917	15.903	15.934	VV	189	1603	0.03%	0.002%
240	15.943	15.934	15.971	VV	96	695	0.01%	0.001%
241	16.019	15.971	16.044	PV	76	2001	0.04%	0.002%
242	16.049	16.044	16.061	VV	63	383	0.01%	0.000%
243	16.117	16.061	16.128	PV	84	1906	0.04%	0.002%
244	16.135	16.128	16.144	VV	85	369	0.01%	0.000%
245	16.158	16.144	16.173	VV	225	2271	0.04%	0.002%
246	16.197	16.173	16.236	VV	1198	18135	0.35%	0.019%

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

rteres

247	16.271	16.236	16.288	VV	149	2922	0.06%	0.003%
248	16.319	16.288	16.339	VV	112	2403		
249	16.369	16.339	16.381	VV	129	2946		
250	16.403	16.381	16.418	VV	179	2981		
251	16.430	16.418	16.472	VV	149	3426		
252	16.496	16.472	16.520	VV	169	3204		
253	16.545	16.520	16.579	VV	506	9769	0.19%	0.010%
254	16.665	16.579	16.734	VV	337919	4702369	89.69%	5.050%
255	16.745	16.734	16.798	VV	272	6480	0.12%	0.007%
256	16.804	16.798	16.811	VV	98	699	0.01%	0.001%
257	16.823	16.811	16.884	VV	161	3419	0.07%	0.004%
258	16.892	16.884	16.899	PV	88	340	0.01%	0.000%
259	16.962	16.899	16.980	VV	93	1414	0.03%	0.002%
260	16.998	16.980	17.024	VV	99	1275	0.02%	0.001%
261	17.032	17.024	17.061	PV	91	1067	0.02%	0.001%
262	17.112	17.061	17.204	VV	1584	25562	0.49%	0.027%
263	17.226	17.204	17.241	VV	138	1900	0.04%	0.002%
264	17.255	17.241	17.327	VV	112	4186	0.08%	0.004%
265	17.439	17.327	17.481	VV	3412	53858	1.03%	0.058%
266	17.551	17.481	17.694	VV	337255	4704024	89.72%	5.052%
267	17.708	17.694	17.790	VV	174	4839	0.09%	0.005%
268	17.839	17.790	17.865	PV	159	4720	0.09%	0.005%
269	17.970	17.865	18.018	VV	2102	33919	0.65%	0.036%
270	18.099	18.018	18.118	VV	142	4417	0.08%	0.005%
271	18.236	18.118	18.303	VV	257	12180	0.23%	0.013%
272	18.383	18.303	18.465	PV	317148	4523971	86.29%	4.858%
273	18.688	18.465	18.714	VV	140	14220	0.27%	0.015%
274	18.777	18.714	18.825	PV	2375	36191	0.69%	0.039%
275	18.959	18.825	18.988	PV	270	13220	0.25%	0.014%
276	19.078	18.988	19.104	VV	333	17352	0.33%	0.019%
277	19.165	19.104	19.228	VV	280139	4257596	81.21%	4.572%
278	19.257	19.228	19.284	VV	600	16381	0.31%	0.018%
279	19.324	19.284	19.348	VV	593	18272	0.35%	0.020%
280	19.464	19.348	19.514	VV	2265	144214	2.75%	0.155%
281	19.537	19.514	19.631	VV	2807	97660	1.86%	0.105%
282	19.804	19.631	19.837	VV	2050	137365	2.62%	0.148%
283	19.904	19.837	20.007	VV	267654	4035800	76.98%	4.334%
284	20.257	20.007	20.294	VV	2866	313231	5.97%	0.336%
285	20.429	20.294	20.458	VV	2653	218154	4.16%	0.234%
286	20.617	20.458	20.741	VV	222638	4172418	79.58%	4.481%
287	20.869	20.741	20.911	VV	2750	279808	5.34%	0.300%
288	20.946	20.911	20.981	VV	2669	106391	2.03%	0.114%
289	21.014	20.981	21.058	VV	2936	119645	2.28%	0.128%
290	21.298	21.058	21.317	VV	2018	332785	6.35%	0.357%
291	21.354	21.317	21.374	VV	1878	64479	1.23%	0.069%
292	21.471	21.374	21.751	VV	153464	3915630	74.69%	4.205%
293	21.765	21.751	21.811	VV	1247	40905	0.78%	0.044%
294	21.855	21.811	21.899	VV	936	48051	0.92%	0.052%
295	21.987	21.899	22.068	VV	895	71153	1.36%	0.076%
296	22.082	22.068	22.102	VV	533	9130	0.17%	0.010%
297	22.118	22.102	22.168	VV	401	12116	0.23%	0.013%
298	22.186	22.168	22.223	VV	311	4748	0.09%	0.005%

Sum of corrected areas: 93117840

rteres

Instrument :
FID_C
ClientSampleId :
P001-CLAY-CF01-01MSD

Aliphatic EPH 021125.M Fri Feb 28 01:14:57 2025

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 03/05/2025
Supervised By :Ankita Jodhani 03/05/2025

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06	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
FD049122.D	1	02/26/25	02/27/25	PB166883

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	189		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	308		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	541		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	837		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.8		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.3		40 - 140	107%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.3		40 - 140	91%	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:	Q1421-06	Acq On:	27 Feb 2025 14:40
Client Sample ID:	P001-CLAY-CF01-01MSD	Operator:	YP/AJ
Data file:	FD049122.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	4.076	5.794	15048552	94.633	200	ug/ml
Aromatic C12-C16	5.795	8.397	24789677	154.035	300	ug/ml
Aromatic C16-C21	8.398	12.661	41500637	270.61	500	ug/ml
Aromatic C21-C36	12.662	18.071	59957869	418.95	800	ug/ml
Aromatic EPH	4.076	18.071	141296735	938.227		ug/ml
2-Bromonaphthalene (SURR)	7.352	7.352	7560353	52.83		ug/ml
2-Flurobiphenyl (SURR)	8.203	8.203	4683693	53.28		ug/ml
ortho-Terphenyl (SURR)	11.237	11.237	7325391	45.28		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049122.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1421-06
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Feb 28 01:27:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
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...	7.352	7560353	52.829 ug/ml
Spiked Amount	50.000		Recovery =	105.66%
6) S	2-Flurobiphenyl (SURR)	8.203	4683693	53.277 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	106.55%
11) S	ortho-Terphenyl (SURR)	11.237	7325391	45.282 ug/ml
Spiked Amount	50.000		Recovery =	90.56%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.178	6595022	41.412 ug/ml
2) T	Naphthalene (C11.7)	5.694	6930516	43.646 ug/ml
3) T	2-Methylnaphthalene (...	6.740	6668796	42.833 ug/ml
5) T	Acenaphthylene (C15.06)	8.005	7230720	44.468 ug/ml
7) T	Acenaphthene (C15.5)	8.300	7741496	47.058 ug/ml
8) T	Flouorene (C16.55)	9.078	7313580	46.391 ug/ml
9) T	Phenanthrene (C19.36)	10.466	7092719	47.065 ug/ml
10) T	Anthracene (C19.43)	10.542	7066276	46.788 ug/ml
12) T	Fluoranthene (C21.85)	12.271	7124315	46.167 ug/ml
13) T	Pyrene (C20.8)	12.563	7053829	45.787 ug/ml
14) T	Benzo[a]anthracene (C...	14.434	6456102	49.137 ug/ml
15) T	Chrysene (C27.41)	14.476	6357637	39.321 ug/ml
16) T	benzo[b]fluoranthene ...	15.984	6403749	46.541 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.016	6492921	41.109 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.358	6211086	45.758 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.728	5722393	52.366 ug/ml
20) T	Dibenz[a,h]anthracene...	17.762	6455927	41.614 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.977	6209398	42.838 ug/ml

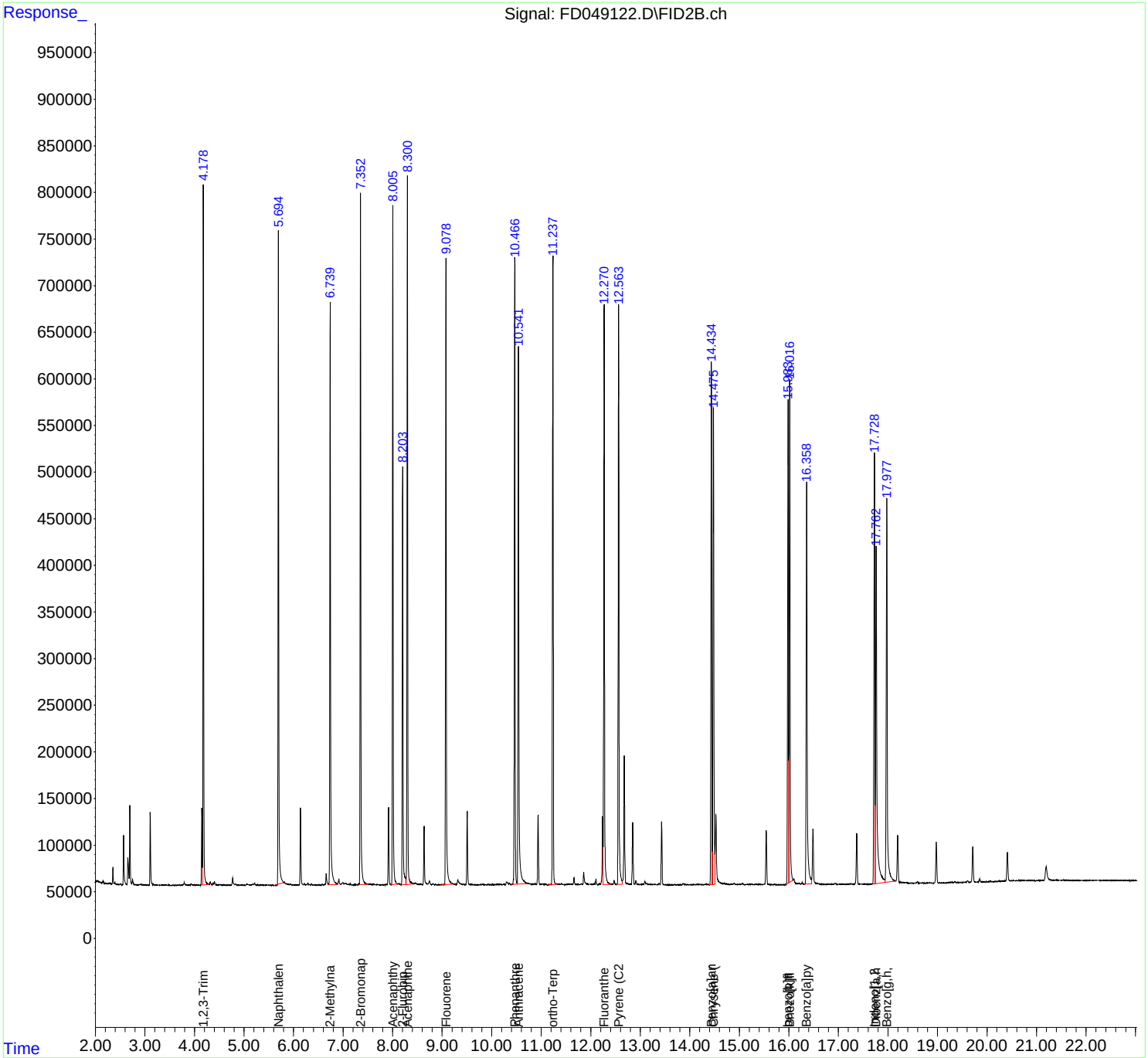
(f)=RT Delta > 1/2 Window (m)=manual int.

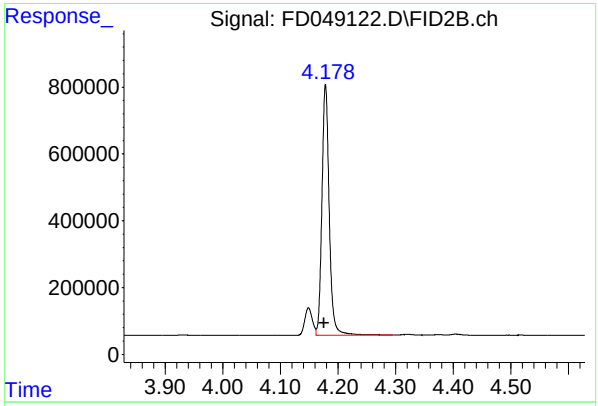
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049122.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 14:40
Operator : YP/AJ
Sample : Q1421-06
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Integration File: autoint1.e
Quant Time: Feb 28 01:27:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.M
Quant Title : GC Extractables
QLast Update : Wed Feb 12 12:54:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

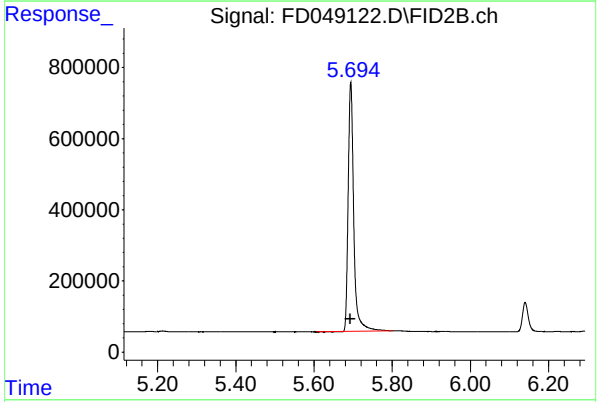




#1 1,2,3-Trimethylbenzene (C10.1)

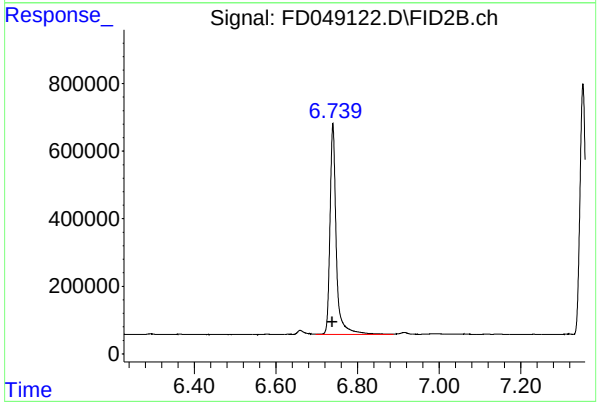
R.T.: 4.178 min
Delta R.T.: 0.002 min
Response: 6595022
Conc: 41.41 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



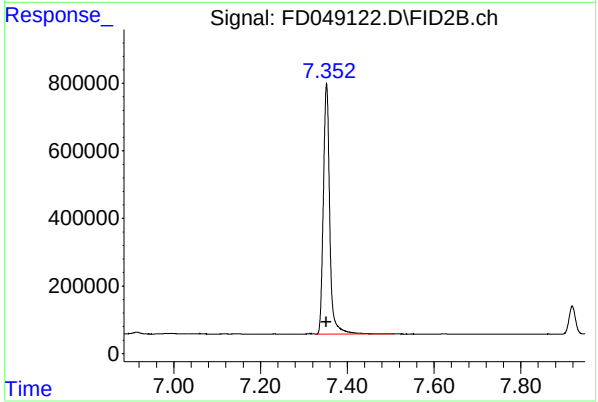
#2 Naphthalene (C11.7)

R.T.: 5.694 min
Delta R.T.: 0.001 min
Response: 6930516
Conc: 43.65 ug/ml



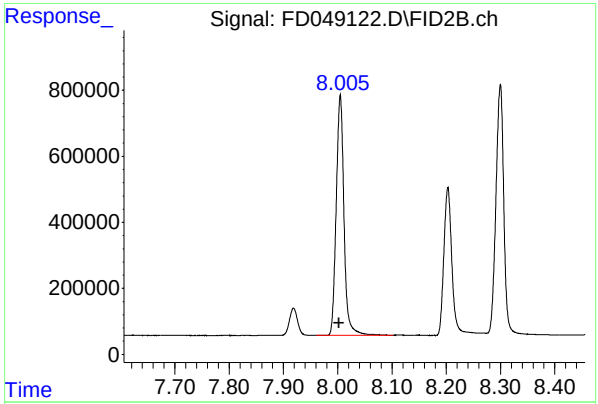
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.740 min
Delta R.T.: 0.000 min
Response: 6668796
Conc: 42.83 ug/ml



#4 2-Bromonaphthalene (SURR)

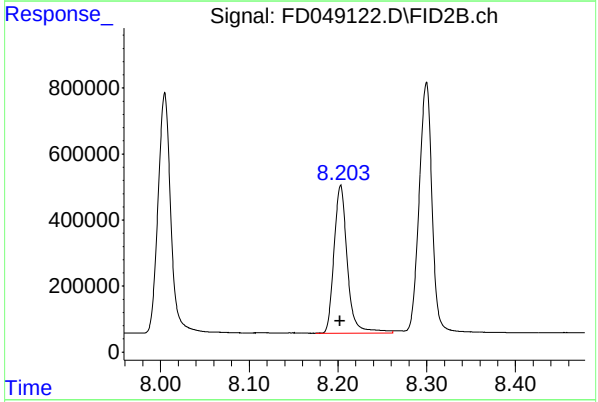
R.T.: 7.352 min
Delta R.T.: 0.000 min
Response: 7560353
Conc: 52.83 ug/ml



#5 Acenaphthylene (C15.06)

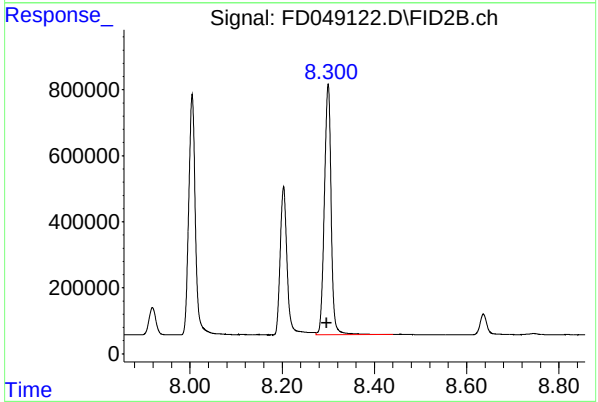
R.T.: 8.005 min
Delta R.T.: 0.002 min
Response: 7230720
Conc: 44.47 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



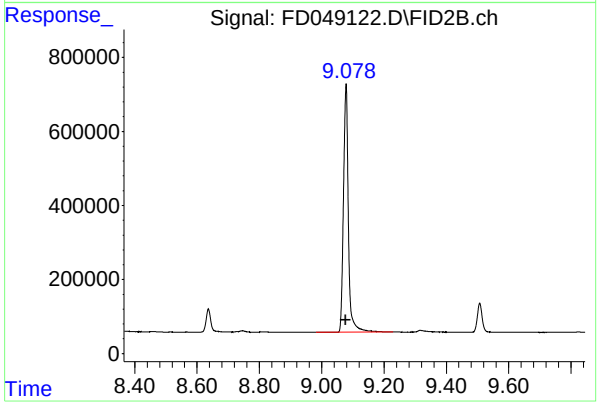
#6 2-Flurobiphenyl (SURR)

R.T.: 8.203 min
Delta R.T.: 0.000 min
Response: 4683693
Conc: 53.28 ug/ml



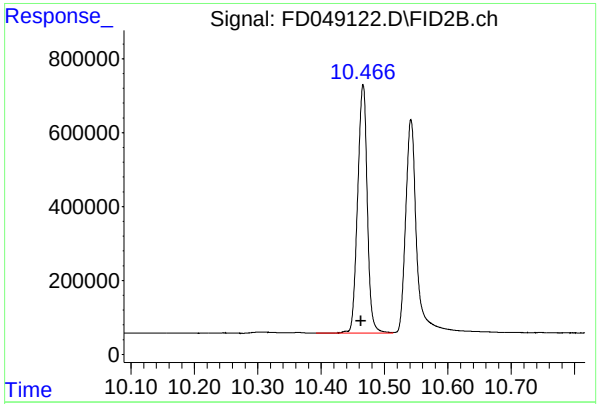
#7 Acenaphthene (C15.5)

R.T.: 8.300 min
Delta R.T.: 0.004 min
Response: 7741496
Conc: 47.06 ug/ml



#8 Flouorene (C16.55)

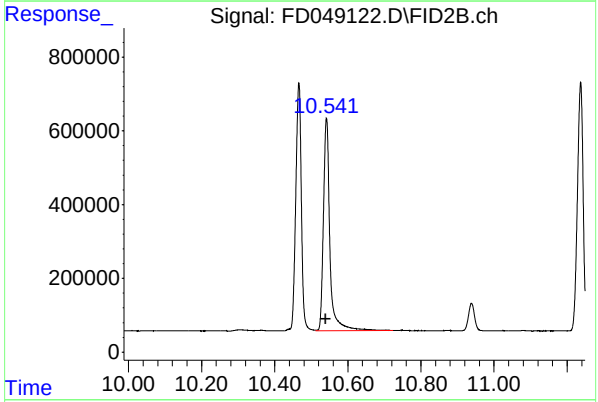
R.T.: 9.078 min
Delta R.T.: 0.002 min
Response: 7313580
Conc: 46.39 ug/ml



#9 Phenanthrene (C19.36)

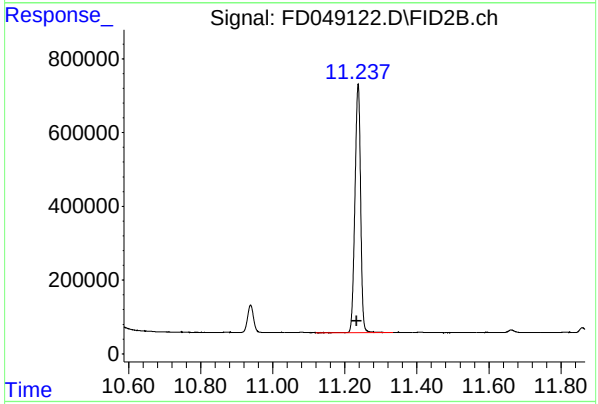
R.T.: 10.466 min
Delta R.T.: 0.003 min
Response: 7092719
Conc: 47.06 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



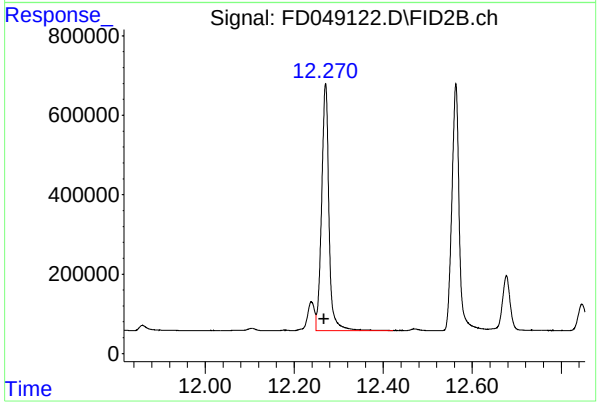
#10 Anthracene (C19.43)

R.T.: 10.542 min
Delta R.T.: 0.002 min
Response: 7066276
Conc: 46.79 ug/ml



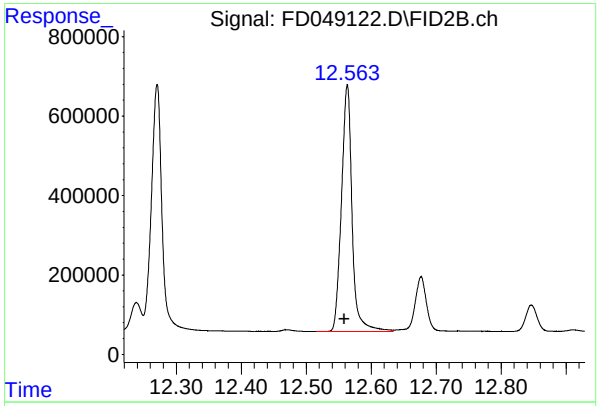
#11 ortho-Terphenyl (SURR)

R.T.: 11.237 min
Delta R.T.: 0.004 min
Response: 7325391
Conc: 45.28 ug/ml



#12 Fluoranthene (C21.85)

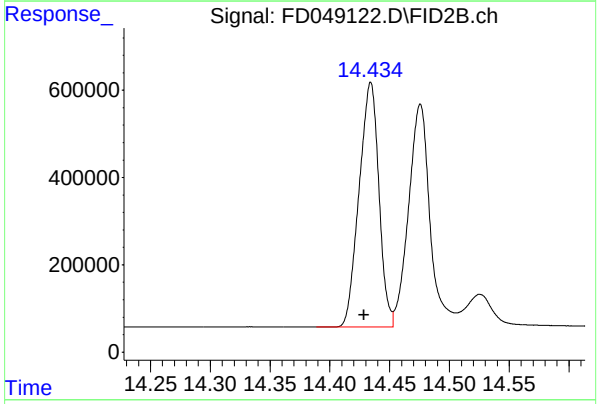
R.T.: 12.271 min
Delta R.T.: 0.004 min
Response: 7124315
Conc: 46.17 ug/ml



#13 Pyrene (C20.8)

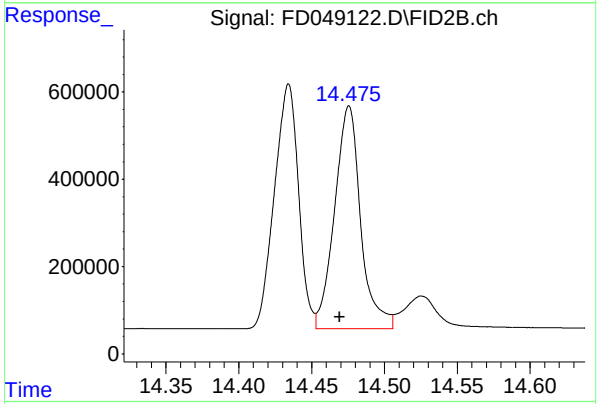
R.T.: 12.563 min
Delta R.T.: 0.005 mi
Response: 7053829
Conc: 45.79 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



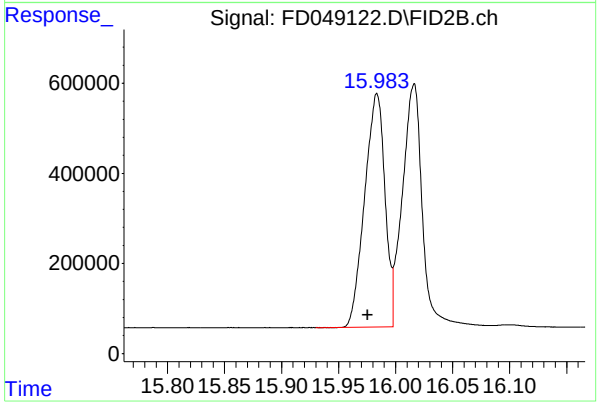
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.434 min
Delta R.T.: 0.006 min
Response: 6456102
Conc: 49.14 ug/ml



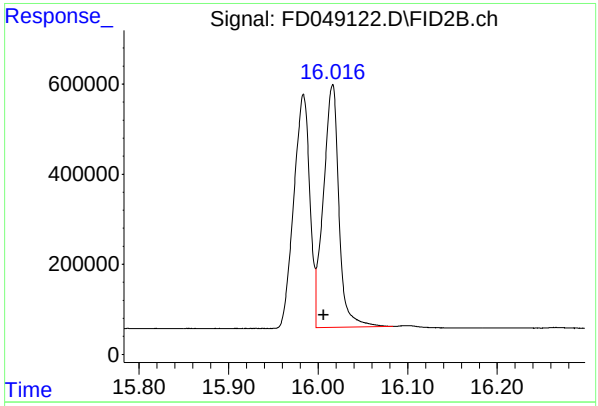
#15 Chrysene (C27.41)

R.T.: 14.476 min
Delta R.T.: 0.006 min
Response: 6357637
Conc: 39.32 ug/ml



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

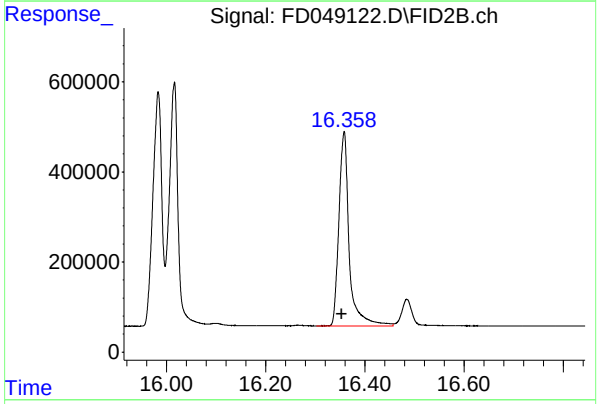
R.T.: 15.984 min
Delta R.T.: 0.008 min
Response: 6403749
Conc: 46.54 ug/ml



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

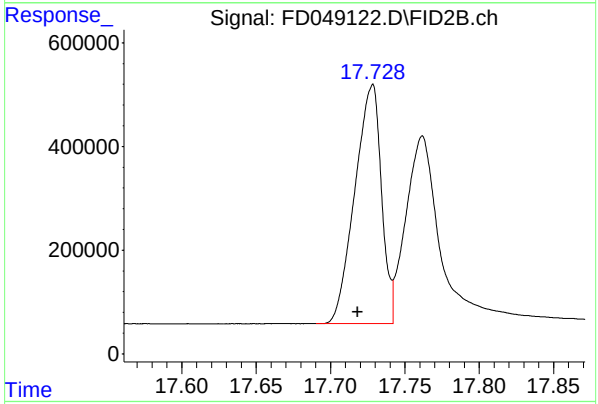
R.T.: 16.016 min
Delta R.T.: 0.010 min
Response: 6492921
Conc: 41.11 ug/ml

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD



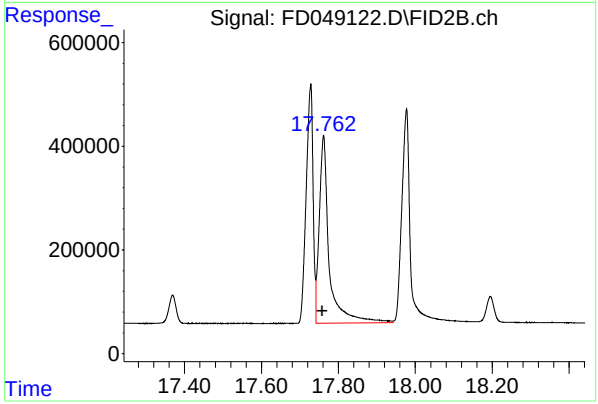
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.358 min
Delta R.T.: 0.005 min
Response: 6211086
Conc: 45.76 ug/ml



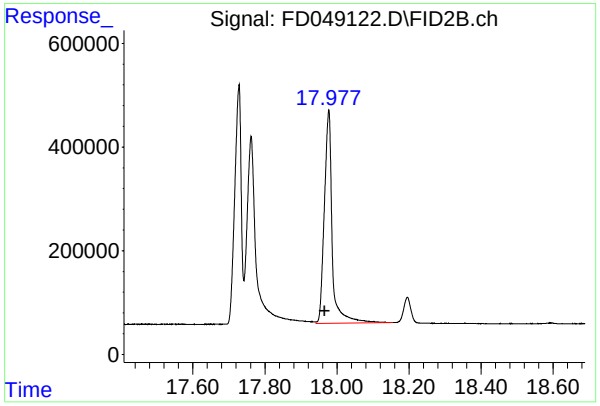
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.728 min
Delta R.T.: 0.010 min
Response: 5722393
Conc: 52.37 ug/ml



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

R.T.: 17.762 min
Delta R.T.: 0.003 min
Response: 6455927
Conc: 41.61 ug/ml



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

R.T.: 17.977 min
Delta R.T.: 0.011 mi
Response: 6209398
Conc: 42.84 ug/m

Instrument :
FID_D
ClientSampleId :
P001-CLAY-CF01-01MSD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD022725AR\
Data File : FD049122.D
Signal(s) : FID2B.ch
Acq On : 27 Feb 2025 14:40
Sample : Q1421-06
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 021125.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	4.053	4.042	4.070	BV	249	1736	0.02%	0.001%
2	4.101	4.070	4.114	PV	266	3355	0.04%	0.002%
3	4.149	4.123	4.162	PV	82890	751687	9.61%	0.464%
4	4.178	4.162	4.295	VV	750750	6647294	85.01%	4.105%
5	4.320	4.295	4.357	VV	3294	61692	0.79%	0.038%
6	4.375	4.357	4.389	VV	2584	31364	0.40%	0.019%
7	4.404	4.389	4.465	VV	3863	61797	0.79%	0.038%
8	4.492	4.465	4.505	VV	775	12464	0.16%	0.008%
9	4.516	4.505	4.558	VV	947	14980	0.19%	0.009%
10	4.586	4.558	4.647	VV	593	14117	0.18%	0.009%
11	4.675	4.658	4.680	VV	215	1607	0.02%	0.001%
12	4.692	4.680	4.709	VV	483	4773	0.06%	0.003%
13	4.715	4.709	4.724	VV	318	2188	0.03%	0.001%
14	4.728	4.724	4.734	VV	356	1739	0.02%	0.001%
15	4.738	4.734	4.743	VV	353	1578	0.02%	0.001%
16	4.771	4.743	4.812	VV	7882	110722	1.42%	0.068%
17	4.829	4.812	4.861	VV	1684	24345	0.31%	0.015%
18	4.864	4.861	4.874	VV	309	2153	0.03%	0.001%
19	4.882	4.874	4.895	VV	408	3086	0.04%	0.002%
20	4.899	4.895	4.907	VV	298	1293	0.02%	0.001%
21	4.914	4.907	4.919	VV	308	1622	0.02%	0.001%
22	4.926	4.919	4.947	VV	336	4118	0.05%	0.003%
23	4.972	4.947	5.031	VV	516	13003	0.17%	0.008%
24	5.060	5.031	5.115	VV	1397	38675	0.49%	0.024%
25	5.140	5.115	5.157	VV	639	12683	0.16%	0.008%
26	5.179	5.157	5.195	VV	1502	21747	0.28%	0.013%
27	5.212	5.195	5.247	VV	2679	35632	0.46%	0.022%
28	5.250	5.247	5.255	VV	403	1975	0.03%	0.001%
29	5.272	5.255	5.290	VV	826	9298	0.12%	0.006%
30	5.297	5.290	5.316	VV	196	1884	0.02%	0.001%
31	5.338	5.316	5.347	VV	449	5017	0.06%	0.003%
32	5.358	5.347	5.372	VV	434	4863	0.06%	0.003%
33	5.382	5.372	5.385	VV	290	1742	0.02%	0.001%
34	5.402	5.385	5.406	VV	337	2954	0.04%	0.002%
35	5.423	5.406	5.441	VV	367	4939	0.06%	0.003%
36	5.463	5.441	5.474	VV	689	7575	0.10%	0.005%

rteres

37	5.479	5.474	5.488	VV	344	2329	0.03%	0.001%
38	5.491	5.488	5.500	VV	228	1004	0.01%	0.001%
39	5.518	5.511	5.522	VV	341	1658	0.02%	0.001%
40	5.525	5.522	5.535	VV	413	2177	0.03%	0.001%
41	5.538	5.535	5.554	VV	204	1602	0.02%	0.001%
42	5.563	5.554	5.580	VV	304	2500	0.03%	0.002%
43	5.585	5.580	5.609	VV	208	1691	0.02%	0.001%
44	5.635	5.624	5.649	VV	244	1608	0.02%	0.001%
45	5.659	5.649	5.667	VV	205	1444	0.02%	0.001%
46	5.694	5.667	5.802	VV	702662	7112578	90.96%	4.392%
47	5.813	5.802	5.857	VV	3530	82128	1.05%	0.051%
48	5.861	5.857	5.907	VV	1541	36980	0.47%	0.023%
49	5.910	5.907	5.917	VV	894	5101	0.07%	0.003%
50	5.940	5.917	5.982	VV	1202	31504	0.40%	0.019%
51	5.987	5.982	5.994	VV	545	3239	0.04%	0.002%
52	6.008	5.994	6.012	VV	523	5358	0.07%	0.003%
53	6.029	6.012	6.044	VV	638	8588	0.11%	0.005%
54	6.048	6.044	6.059	VV	533	3360	0.04%	0.002%
55	6.086	6.059	6.110	VV	503	11993	0.15%	0.007%
56	6.140	6.110	6.204	VV	83059	880436	11.26%	0.544%
57	6.222	6.204	6.249	VV	1461	22443	0.29%	0.014%
58	6.262	6.249	6.274	VV	1067	11475	0.15%	0.007%
59	6.293	6.274	6.309	VV	2340	28808	0.37%	0.018%
60	6.321	6.309	6.349	VV	860	13854	0.18%	0.009%
61	6.364	6.349	6.389	VV	1443	19975	0.26%	0.012%
62	6.393	6.389	6.399	VV	471	2335	0.03%	0.001%
63	6.406	6.399	6.415	VV	434	3270	0.04%	0.002%
64	6.419	6.415	6.437	VV	341	3558	0.05%	0.002%
65	6.445	6.437	6.459	VV	421	4099	0.05%	0.003%
66	6.471	6.459	6.490	VV	496	5877	0.08%	0.004%
67	6.510	6.490	6.515	VV	485	5168	0.07%	0.003%
68	6.519	6.515	6.524	VV	442	1589	0.02%	0.001%
69	6.540	6.524	6.556	VV	359	5164	0.07%	0.003%
70	6.578	6.556	6.610	VV	1410	21367	0.27%	0.013%
71	6.630	6.610	6.644	VV	1201	17686	0.23%	0.011%
72	6.660	6.644	6.698	VV	12552	165019	2.11%	0.102%
73	6.704	6.698	6.710	VV	1579	10496	0.13%	0.006%
74	6.740	6.710	6.887	VV	624924	6740398	86.20%	4.162%
75	6.915	6.887	6.953	VV	6547	109248	1.40%	0.067%
76	6.992	6.953	7.017	VV	2843	76296	0.98%	0.047%
77	7.025	7.017	7.032	VV	1861	15994	0.20%	0.010%
78	7.044	7.032	7.055	VV	1903	25399	0.32%	0.016%
79	7.061	7.055	7.085	VV	1954	25376	0.32%	0.016%
80	7.089	7.085	7.097	VV	932	5918	0.08%	0.004%
81	7.115	7.097	7.132	VV	1442	23190	0.30%	0.014%
82	7.148	7.132	7.179	VV	1786	27624	0.35%	0.017%
83	7.200	7.179	7.209	VV	460	6437	0.08%	0.004%
84	7.232	7.209	7.252	VV	1142	18081	0.23%	0.011%
85	7.256	7.252	7.262	VV	592	2954	0.04%	0.002%
86	7.272	7.262	7.284	VV	600	7044	0.09%	0.004%
87	7.288	7.284	7.299	VV	576	4730	0.06%	0.003%
88	7.316	7.299	7.328	VV	2003	23537	0.30%	0.015%
89	7.352	7.328	7.506	VV	741774	7657779	97.93%	4.729%

90	7.513	7.506	7.535	VV	1332	19183	0.25%	0.012%
91	7.542	7.535	7.546	VV	1028	6205	0.08%	0.004%
92	7.551	7.546	7.567	VV	1213	11522	0.15%	0.007%
93	7.574	7.567	7.602	VV	983	16378	0.21%	0.010%
94	7.622	7.602	7.645	VV	1411	22044	0.28%	0.014%
95	7.648	7.645	7.656	VV	616	3510	0.04%	0.002%
96	7.666	7.656	7.670	VV	536	4439	0.06%	0.003%
97	7.675	7.670	7.682	VV	599	4215	0.05%	0.003%
98	7.684	7.682	7.695	VV	647	4683	0.06%	0.003%
99	7.716	7.695	7.740	VV	833	16367	0.21%	0.010%
100	7.749	7.740	7.770	VV	452	7305	0.09%	0.005%
101	7.794	7.770	7.818	VV	603	13135	0.17%	0.008%
102	7.834	7.818	7.850	VV	595	9121	0.12%	0.006%
103	7.865	7.850	7.885	VV	1138	15403	0.20%	0.010%
104	7.919	7.885	7.972	VV	83558	885796	11.33%	0.547%
105	7.975	7.972	7.978	VV	635	2395	0.03%	0.001%
106	8.005	7.978	8.099	VV	729213	7302190	93.38%	4.509%
107	8.116	8.099	8.133	VV	1631	28053	0.36%	0.017%
108	8.148	8.133	8.173	VV	1378	22466	0.29%	0.014%
109	8.203	8.173	8.262	VV	449899	4714958	60.29%	2.912%
110	8.267	8.262	8.273	VV	7597	52321	0.67%	0.032%
111	8.300	8.273	8.404	VV	762387	7819850	100.00%	4.829%
112	8.407	8.404	8.441	VV	2062	42493	0.54%	0.026%
113	8.456	8.441	8.498	VV	2399	60065	0.77%	0.037%
114	8.515	8.498	8.544	VV	1317	27004	0.35%	0.017%
115	8.566	8.544	8.598	VV	1190	27708	0.35%	0.017%
116	8.636	8.598	8.683	VV	63382	697296	8.92%	0.431%
117	8.689	8.683	8.712	VV	1852	27404	0.35%	0.017%
118	8.745	8.712	8.794	VV	4650	99243	1.27%	0.061%
119	8.820	8.794	8.847	VV	1756	33168	0.42%	0.020%
120	8.852	8.847	8.857	VV	588	3192	0.04%	0.002%
121	8.870	8.857	8.897	VV	897	14797	0.19%	0.009%
122	8.902	8.897	8.908	VV	538	3143	0.04%	0.002%
123	8.929	8.908	8.941	VV	708	10569	0.14%	0.007%
124	8.952	8.941	8.990	VV	707	17627	0.23%	0.011%
125	9.016	8.990	9.028	VV	854	15145	0.19%	0.009%
126	9.040	9.028	9.050	VV	761	8664	0.11%	0.005%
127	9.078	9.050	9.229	VV	672347	7411495	94.78%	4.577%
128	9.246	9.229	9.269	VV	1507	28603	0.37%	0.018%
129	9.276	9.269	9.280	VV	1060	6302	0.08%	0.004%
130	9.316	9.280	9.422	VV	5798	176438	2.26%	0.109%
131	9.438	9.422	9.463	VV	885	17798	0.23%	0.011%
132	9.470	9.463	9.480	VV	614	5864	0.07%	0.004%
133	9.507	9.480	9.552	VV	79053	858175	10.97%	0.530%
134	9.557	9.552	9.569	VV	773	6727	0.09%	0.004%
135	9.582	9.569	9.616	VV	916	22740	0.29%	0.014%
136	9.619	9.616	9.641	VV	654	8471	0.11%	0.005%
137	9.655	9.641	9.670	VV	629	8431	0.11%	0.005%
138	9.678	9.670	9.708	VV	591	8733	0.11%	0.005%
139	9.756	9.708	9.762	VV	621	12694	0.16%	0.008%
140	9.767	9.762	9.774	VV	537	3343	0.04%	0.002%
141	9.778	9.774	9.786	VV	533	3532	0.05%	0.002%

rteres

142	9.794	9.786	9.798	VV	552	3392	0.04%	0.002%
143	9.824	9.798	9.865	VV	1361	30883	0.39%	0.019%
144	9.869	9.865	9.889	VV	709	8975	0.11%	0.006%
145	9.899	9.889	9.904	VV	653	5342	0.07%	0.003%
146	9.908	9.904	9.919	VV	607	4756	0.06%	0.003%
147	9.930	9.919	9.960	VV	794	16527	0.21%	0.010%
148	9.982	9.960	9.995	VV	726	13052	0.17%	0.008%
149	10.011	9.995	10.032	VV	1247	16626	0.21%	0.010%
150	10.037	10.032	10.042	VV	604	2983	0.04%	0.002%
151	10.046	10.042	10.070	VV	579	9278	0.12%	0.006%
152	10.076	10.070	10.086	VV	732	6115	0.08%	0.004%
153	10.102	10.086	10.114	VV	923	12974	0.17%	0.008%
154	10.133	10.114	10.157	VV	1069	20714	0.26%	0.013%
155	10.179	10.157	10.206	VV	985	20586	0.26%	0.013%
156	10.214	10.206	10.217	VV	511	2706	0.03%	0.002%
157	10.246	10.217	10.277	VV	1184	27353	0.35%	0.017%
158	10.305	10.277	10.343	VV	3666	85944	1.10%	0.053%
159	10.363	10.343	10.385	VV	2212	37811	0.48%	0.023%
160	10.401	10.385	10.405	VV	768	8085	0.10%	0.005%
161	10.466	10.405	10.513	VV	673477	7149173	91.42%	4.415%
162	10.542	10.513	10.689	VV	578062	7199120	92.06%	4.446%
163	10.694	10.689	10.724	VV	2588	47489	0.61%	0.029%
164	10.727	10.724	10.733	VV	1876	11008	0.14%	0.007%
165	10.746	10.733	10.777	VV	2175	43934	0.56%	0.027%
166	10.790	10.777	10.843	VV	1298	41975	0.54%	0.026%
167	10.872	10.843	10.905	VV	1786	41635	0.53%	0.026%
168	10.939	10.905	11.015	VV	75292	904943	11.57%	0.559%
169	11.028	11.015	11.061	VV	1199	25707	0.33%	0.016%
170	11.079	11.061	11.106	VV	1404	24067	0.31%	0.015%
171	11.115	11.106	11.135	VV	535	6452	0.08%	0.004%
172	11.152	11.135	11.157	VV	506	5352	0.07%	0.003%
173	11.182	11.157	11.200	VV	753	13572	0.17%	0.008%
174	11.237	11.200	11.315	VV	675130	7368103	94.22%	4.550%
175	11.318	11.315	11.340	VV	1110	15150	0.19%	0.009%
176	11.348	11.340	11.385	VV	1085	22886	0.29%	0.014%
177	11.412	11.385	11.429	VV	1570	27739	0.35%	0.017%
178	11.438	11.429	11.445	VV	722	6035	0.08%	0.004%
179	11.453	11.445	11.491	VV	654	13734	0.18%	0.008%
180	11.504	11.491	11.522	VV	890	12672	0.16%	0.008%
181	11.535	11.522	11.555	VV	1112	19312	0.25%	0.012%
182	11.563	11.555	11.575	VV	1142	12400	0.16%	0.008%
183	11.593	11.575	11.617	VV	1295	24536	0.31%	0.015%
184	11.621	11.617	11.636	VV	707	7461	0.10%	0.005%
185	11.662	11.636	11.694	VV	7936	104141	1.33%	0.064%
186	11.701	11.694	11.720	VV	852	11635	0.15%	0.007%
187	11.732	11.720	11.749	VV	906	12756	0.16%	0.008%
188	11.758	11.749	11.776	VV	817	10948	0.14%	0.007%
189	11.816	11.776	11.838	VV	1596	37498	0.48%	0.023%
190	11.859	11.838	11.959	VV	13848	241065	3.08%	0.149%
191	11.963	11.959	11.996	VV	870	17265	0.22%	0.011%
192	12.014	11.996	12.027	VV	1029	15927	0.20%	0.010%
193	12.032	12.027	12.044	VV	795	6926	0.09%	0.004%
194	12.049	12.044	12.055	VV	825	5216	0.07%	0.003%

rteres

195	12.072	12.055	12.084	VV	1263	19169	0.25%	0.012%
196	12.105	12.084	12.133	VV	6341	87468	1.12%	0.054%
197	12.139	12.133	12.157	VV	583	6311	0.08%	0.004%
198	12.179	12.157	12.200	VV	1854	27176	0.35%	0.017%
199	12.239	12.200	12.249	VV	73528	820528	10.49%	0.507%
200	12.271	12.249	12.422	VV	622768	7198171	92.05%	4.445%
201	12.431	12.422	12.435	VV	1011	7662	0.10%	0.005%
202	12.441	12.435	12.449	VV	970	7514	0.10%	0.005%
203	12.470	12.449	12.517	VV	4949	81277	1.04%	0.050%
204	12.563	12.517	12.634	VV	622295	7104666	90.85%	4.387%
205	12.677	12.634	12.720	VV	138745	1726026	22.07%	1.066%
206	12.735	12.720	12.795	VV	1867	58240	0.74%	0.036%
207	12.801	12.795	12.816	VV	932	10617	0.14%	0.007%
208	12.847	12.816	12.885	VV	67122	831019	10.63%	0.513%
209	12.911	12.885	12.951	VV	4588	77240	0.99%	0.048%
210	12.957	12.951	12.985	VV	685	11732	0.15%	0.007%
211	13.009	12.985	13.020	VV	736	11455	0.15%	0.007%
212	13.047	13.020	13.056	VV	1014	17620	0.23%	0.011%
213	13.060	13.056	13.072	VV	985	7081	0.09%	0.004%
214	13.089	13.072	13.202	VV	3606	116550	1.49%	0.072%
215	13.207	13.202	13.210	VV	627	2662	0.03%	0.002%
216	13.224	13.210	13.247	VV	762	14800	0.19%	0.009%
217	13.261	13.247	13.268	VV	787	8276	0.11%	0.005%
218	13.280	13.268	13.285	VV	785	7567	0.10%	0.005%
219	13.289	13.285	13.317	VV	695	12342	0.16%	0.008%
220	13.330	13.317	13.346	VV	489	7623	0.10%	0.005%
221	13.377	13.346	13.401	VV	1589	29793	0.38%	0.018%
222	13.430	13.401	13.476	VV	68065	822164	10.51%	0.508%
223	13.483	13.476	13.522	VV	594	11369	0.15%	0.007%
224	13.526	13.522	13.536	VV	323	1962	0.03%	0.001%
225	13.541	13.536	13.562	VV	314	2519	0.03%	0.002%
226	13.568	13.562	13.589	PV	337	3016	0.04%	0.002%
227	13.611	13.589	13.639	VV	339	5534	0.07%	0.003%
228	13.645	13.639	13.667	VV	331	3896	0.05%	0.002%
229	13.672	13.667	13.687	VV	311	2596	0.03%	0.002%
230	13.694	13.687	13.712	VV	308	3100	0.04%	0.002%
231	13.726	13.712	13.745	VV	378	4318	0.06%	0.003%
232	13.749	13.745	13.761	VV	204	1748	0.02%	0.001%
233	13.775	13.761	13.785	VV	387	4412	0.06%	0.003%
234	13.789	13.785	13.795	VV	327	1694	0.02%	0.001%
235	13.804	13.795	13.814	VV	393	3416	0.04%	0.002%
236	13.818	13.814	13.824	VV	495	1829	0.02%	0.001%
237	13.839	13.824	13.844	VV	389	3637	0.05%	0.002%
238	13.867	13.844	13.894	VV	1597	25503	0.33%	0.016%
239	13.899	13.894	13.907	VV	618	3499	0.04%	0.002%
240	13.917	13.907	13.945	VV	563	9479	0.12%	0.006%
241	13.954	13.945	13.970	VV	620	6747	0.09%	0.004%
242	13.975	13.970	14.007	VV	502	8795	0.11%	0.005%
243	14.012	14.007	14.020	VV	461	2318	0.03%	0.001%
244	14.028	14.020	14.038	VV	378	3298	0.04%	0.002%
245	14.047	14.038	14.057	VV	370	4030	0.05%	0.002%
246	14.077	14.057	14.087	VV	570	8051	0.10%	0.005%

rteres

247	14.092	14.087	14.116	VV	456	6240	0.08%	0.004%
248	14.130	14.116	14.135	VV	567	4845	0.06%	0.003%
249	14.168	14.135	14.174	VV	600	11502	0.15%	0.007%
250	14.187	14.174	14.192	VV	542	4943	0.06%	0.003%
251	14.198	14.192	14.205	VV	533	3776	0.05%	0.002%
252	14.209	14.205	14.221	VV	582	4130	0.05%	0.003%
253	14.239	14.221	14.275	VV	674	14726	0.19%	0.009%
254	14.283	14.275	14.297	VV	489	5250	0.07%	0.003%
255	14.317	14.297	14.321	VV	621	7076	0.09%	0.004%
256	14.333	14.321	14.360	VV	808	11967	0.15%	0.007%
257	14.374	14.360	14.389	VV	560	6590	0.08%	0.004%
258	14.394	14.389	14.398	VV	372	1952	0.02%	0.001%
259	14.434	14.398	14.453	VV	561190	6467172	82.70%	3.994%
260	14.476	14.453	14.506	VV	511087	6375501	81.53%	3.937%
261	14.526	14.506	14.670	VV	75340	1401845	17.93%	0.866%
262	14.692	14.670	14.746	VV	1802	58362	0.75%	0.036%
263	14.750	14.746	14.756	VV	988	5353	0.07%	0.003%
264	14.760	14.756	14.793	VV	940	15847	0.20%	0.010%
265	14.801	14.793	14.803	VV	654	3868	0.05%	0.002%
266	14.808	14.803	14.819	VV	689	5791	0.07%	0.004%
267	14.840	14.819	14.865	VV	1108	20390	0.26%	0.013%
268	14.889	14.865	14.937	VV	1693	41379	0.53%	0.026%
269	14.943	14.937	14.951	VV	641	4752	0.06%	0.003%
270	14.955	14.951	14.985	VV	633	10324	0.13%	0.006%
271	14.999	14.985	15.010	VV	654	7030	0.09%	0.004%
272	15.017	15.010	15.029	VV	631	6353	0.08%	0.004%
273	15.061	15.029	15.118	VV	1814	41263	0.53%	0.025%
274	15.137	15.118	15.142	VV	477	5369	0.07%	0.003%
275	15.168	15.142	15.182	VV	567	10140	0.13%	0.006%
276	15.191	15.182	15.219	VV	581	9687	0.12%	0.006%
277	15.242	15.219	15.294	VV	1038	23464	0.30%	0.014%
278	15.300	15.294	15.307	VV	430	2545	0.03%	0.002%
279	15.317	15.307	15.331	VV	522	6084	0.08%	0.004%
280	15.350	15.331	15.357	VV	652	8229	0.11%	0.005%
281	15.362	15.357	15.387	VV	618	10168	0.13%	0.006%
282	15.405	15.387	15.417	VV	638	9102	0.12%	0.006%
283	15.423	15.417	15.432	VV	511	3958	0.05%	0.002%
284	15.439	15.432	15.466	VV	460	7377	0.09%	0.005%
285	15.470	15.466	15.480	VV	312	2416	0.03%	0.001%
286	15.542	15.480	15.572	VV	58268	770265	9.85%	0.476%
287	15.584	15.572	15.614	VV	695	12545	0.16%	0.008%
288	15.625	15.614	15.640	VV	326	3934	0.05%	0.002%
289	15.646	15.640	15.649	VV	307	1307	0.02%	0.001%
290	15.655	15.649	15.672	VV	389	3612	0.05%	0.002%
291	15.696	15.672	15.700	VV	540	5070	0.06%	0.003%
292	15.707	15.700	15.718	VV	568	4618	0.06%	0.003%
293	15.727	15.718	15.745	VV	441	5523	0.07%	0.003%
294	15.757	15.745	15.776	VV	372	4015	0.05%	0.002%
295	15.787	15.776	15.803	VV	325	2176	0.03%	0.001%
296	15.819	15.803	15.832	PV	251	2534	0.03%	0.002%
297	15.848	15.840	15.881	VV	233	4633	0.06%	0.003%
298	15.889	15.881	15.903	VV	278	2511	0.03%	0.002%
299	15.909	15.903	15.914	VV	281	1410	0.02%	0.001%

300	15.925	15.922	15.934	VV	355	1896	0.02%	0.001%
301	15.938	15.934	15.949	VV	324	2084	0.03%	0.001%
302	15.984	15.949	15.998	VV	520042	6451976	82.51%	3.984%
303	16.016	15.998	16.084	VV	544227	6674313	85.35%	4.122%
304	16.099	16.084	16.161	VV	6490	152782	1.95%	0.094%
305	16.167	16.161	16.173	VV	1283	8269	0.11%	0.005%
306	16.184	16.173	16.190	VV	1293	12719	0.16%	0.008%
307	16.198	16.190	16.210	VV	1435	15860	0.20%	0.010%
308	16.213	16.210	16.242	VV	1338	22741	0.29%	0.014%
309	16.266	16.242	16.300	VV	2295	47336	0.61%	0.029%
310	16.304	16.300	16.318	VV	859	8540	0.11%	0.005%
311	16.358	16.318	16.457	VV	432654	6279718	80.30%	3.878%
312	16.485	16.457	16.566	VV	59598	915486	11.71%	0.565%
313	16.575	16.566	16.668	VV	1409	51220	0.66%	0.032%
314	16.677	16.668	16.697	VV	613	7707	0.10%	0.005%
315	16.719	16.697	16.730	VV	419	6955	0.09%	0.004%
316	16.735	16.730	16.767	VV	417	7238	0.09%	0.004%
317	16.771	16.767	16.775	VV	301	1420	0.02%	0.001%
318	16.787	16.775	16.804	VV	462	6403	0.08%	0.004%
319	16.815	16.804	16.822	VV	433	4166	0.05%	0.003%
320	16.826	16.822	16.834	VV	486	2832	0.04%	0.002%
321	16.838	16.834	16.853	VV	382	3805	0.05%	0.002%
322	16.859	16.853	16.879	VV	474	4739	0.06%	0.003%
323	16.900	16.879	16.909	VV	537	6290	0.08%	0.004%
324	16.933	16.909	16.964	VV	1604	26031	0.33%	0.016%
325	16.968	16.964	16.990	VV	385	4080	0.05%	0.003%
326	16.997	16.990	17.001	VV	316	1949	0.02%	0.001%
327	17.006	17.001	17.016	VV	360	2747	0.04%	0.002%
328	17.022	17.016	17.039	VV	422	4802	0.06%	0.003%
329	17.059	17.039	17.079	VV	472	9124	0.12%	0.006%
330	17.090	17.079	17.126	VV	424	9499	0.12%	0.006%
331	17.132	17.126	17.140	VV	415	2639	0.03%	0.002%
332	17.159	17.140	17.174	VV	567	8050	0.10%	0.005%
333	17.176	17.174	17.185	VV	551	2897	0.04%	0.002%
334	17.192	17.185	17.200	VV	499	3507	0.04%	0.002%
335	17.222	17.200	17.239	VV	717	13546	0.17%	0.008%
336	17.262	17.239	17.295	VV	989	24263	0.31%	0.015%
337	17.305	17.295	17.310	VV	588	4410	0.06%	0.003%
338	17.369	17.310	17.415	VV	55098	747560	9.56%	0.462%
339	17.422	17.415	17.434	VV	451	4381	0.06%	0.003%
340	17.442	17.434	17.457	VV	567	6869	0.09%	0.004%
341	17.461	17.457	17.466	VV	594	2573	0.03%	0.002%
342	17.472	17.466	17.478	VV	553	3454	0.04%	0.002%
343	17.484	17.478	17.492	VV	541	3873	0.05%	0.002%
344	17.497	17.492	17.503	VV	466	2721	0.03%	0.002%
345	17.518	17.503	17.534	VV	559	8168	0.10%	0.005%
346	17.549	17.534	17.602	VV	525	14848	0.19%	0.009%
347	17.605	17.602	17.617	VV	367	2715	0.03%	0.002%
348	17.638	17.617	17.654	VV	485	7850	0.10%	0.005%
349	17.664	17.654	17.677	VV	547	6513	0.08%	0.004%
350	17.728	17.677	17.742	VV	463666	5748580	73.51%	3.550%
351	17.762	17.742	17.942	VV	362835	6638413	84.89%	4.099%

rteres

352	17.977	17.942	18.155	VV	413843	6574820	84.08%	4.060%
353	18.196	18.155	18.240	VV	52675	820429	10.49%	0.507%
354	18.241	18.240	18.247	VV	2462	10151	0.13%	0.006%
355	18.252	18.247	18.262	VV	2476	19884	0.25%	0.012%
356	18.267	18.262	18.281	VV	2164	23654	0.30%	0.015%
357	18.289	18.281	18.300	VBA	2139	24849	0.32%	0.015%

Sum of corrected areas: 161938269

Aromatic EPH 021125.M Fri Feb 28 02:08:40 2025

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

Manual Integration Report

Sequence:	FC021125AL	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:	FC022725AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1421-05	FC068312.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:22 AM	Ankita	3/5/2025 9:16:34	Peak Integrated by Software
Q1421-05	FC068312.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:22 AM	Ankita	3/5/2025 9:16:34	Peak Integrated by Software
Q1421-06	FC068313.D	n-Dotriacontane (C32)	yogesh	3/5/2025 7:49:23 AM	Ankita	3/5/2025 9:16:42	Peak Integrated by Software
Q1421-06	FC068313.D	n-Tricontane (C30)	yogesh	3/5/2025 7:49:23 AM	Ankita	3/5/2025 9:16:42	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FC022825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1447-01	FC068339.D	1-chlorooctadecane (SURR)	yogesh	3/5/2025 7:49:39 AM	Ankita	3/5/2025 9:17:04	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD021125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049077.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:10 AM	Ankita	2/11/2025 9:13:40	Peak Integrated by Software
20 PPM AROMATIC HC	FD049079.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	2/11/2025 7:39:12 AM	Ankita	2/11/2025 9:13:41	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD022725AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166883BS	FD049116.D	Bnezo[k]fluoranthene (C30.14)	yogesh	2/28/2025 8:31:10 AM	Ankita	2/28/2025 10:37:57	Peak Integrated by Software
20 PPM AROMATIC HC	FD049126.D	Anthracene (C19.43)	yogesh	2/28/2025 8:31:12 AM	Ankita	2/28/2025 10:37:59	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD022825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD049129.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	3/3/2025 8:01:30 AM	Ankita	3/4/2025 12:54:35	Peak Integrated by Software
Q1421-01D	FD049141.D	2-Flurobiphenyl (SURR)	yogesh	3/3/2025 8:01:31 AM	Ankita	3/4/2025 12:54:36	Peak Integrated by Software

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068250.D	10 Feb 2025 15:12	YP/AJ	Ok
2	I.BLK	FC068251.D	10 Feb 2025 15:48	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068252.D	10 Feb 2025 16:24	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068253.D	10 Feb 2025 17:01	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068254.D	10 Feb 2025 17:38	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068255.D	10 Feb 2025 18:14	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068256.D	10 Feb 2025 18:50	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068257.D	10 Feb 2025 19:26	YP/AJ	Ok
9	I.BLK	FC068258.D	10 Feb 2025 20:39	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068259.D	10 Feb 2025 21:16	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022725AL

Review By	yogesh	Review On	2/27/2025 10:00:10 AM		
Supervise By	Ankita	Supervise On	2/28/2025 10:37:26 AM		
SubDirectory	FC022725AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068303.D	27 Feb 2025 06:46	YP/AJ	Ok
2	I.BLK	FC068304.D	27 Feb 2025 07:22	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068305.D	27 Feb 2025 08:35	YP/AJ	Ok
4	PB166883BL	FC068306.D	27 Feb 2025 10:26	YP/AJ	Ok
5	PB166883BS	FC068307.D	27 Feb 2025 11:02	YP/AJ	Ok
6	PB166883TB	FC068308.D	27 Feb 2025 11:38	YP/AJ	Ok
7	Q1421-04	FC068309.D	27 Feb 2025 12:14	YP/AJ	Ok
8	I.BLK	FC068310.D	27 Feb 2025 12:50	YP/AJ	Ok
9	20 PPM ALIPHATIC HC STD	FC068311.D	27 Feb 2025 13:27	YP/AJ	Ok
10	Q1421-05	FC068312.D	27 Feb 2025 14:03	YP/AJ	Ok,M
11	Q1421-06	FC068313.D	27 Feb 2025 14:40	YP/AJ	Ok,M
12	Q1421-08	FC068314.D	27 Feb 2025 15:17	YP/AJ	Ok
13	Q1421-10	FC068315.D	27 Feb 2025 15:53	YP/AJ	Ok
14	PP24210	FC068316.D	27 Feb 2025 16:31	YP/AJ	Ok
15	I.BLK	FC068317.D	27 Feb 2025 17:08	YP/AJ	Ok
16	20 PPM ALIPHATIC HC STD	FC068318.D	27 Feb 2025 17:45	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068319.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FC068320.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068321.D	28 Feb 2025 10:23	YP/AJ	Ok
4	PB166923BL	FC068322.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FC068323.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FC068324.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FC068325.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FC068326.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FC068327.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FC068328.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FC068329.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FC068330.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM ALIPHATIC HC STD	FC068331.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FC068332.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FC068333.D	28 Feb 2025 18:20	YP/AJ	Ok
16	Q1421-02	FC068334.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FC068335.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FC068336.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FC068337.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FC068338.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FC068339.D	28 Feb 2025 21:59	YP/AJ	Dilution

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FC068340.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068341.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049070.D	10 Feb 2025 12:09	YP/AJ	Ok
2	I.BLK	FD049071.D	10 Feb 2025 12:45	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049072.D	10 Feb 2025 13:22	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD049073.D	10 Feb 2025 13:58	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049074.D	10 Feb 2025 14:35	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049075.D	10 Feb 2025 15:12	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049076.D	10 Feb 2025 15:48	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049077.D	10 Feb 2025 16:24	YP/AJ	Ok,M
9	I.BLK	FD049078.D	10 Feb 2025 17:01	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049079.D	10 Feb 2025 17:38	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_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022725AR

Review By	yogesh	Review On	2/27/2025 10:01:07 AM		
Supervise By	Ankita	Supervise On	2/28/2025 10:38:03 AM		
SubDirectory	FD022725AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049112.D	27 Feb 2025 06:46	YP/AJ	Ok
2	I.BLK	FD049113.D	27 Feb 2025 07:22	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049114.D	27 Feb 2025 08:35	YP/AJ	Ok
4	PB166883BL	FD049115.D	27 Feb 2025 10:26	YP/AJ	Ok
5	PB166883BS	FD049116.D	27 Feb 2025 11:02	YP/AJ	Ok,M
6	PB166883TB	FD049117.D	27 Feb 2025 11:38	YP/AJ	Ok
7	Q1421-04	FD049118.D	27 Feb 2025 12:14	YP/AJ	Ok
8	I.BLK	FD049119.D	27 Feb 2025 12:50	YP/AJ	Ok
9	20 PPM AROMATIC HC STD	FD049120.D	27 Feb 2025 13:27	YP/AJ	Ok
10	Q1421-05	FD049121.D	27 Feb 2025 14:03	YP/AJ	Ok
11	Q1421-06	FD049122.D	27 Feb 2025 14:40	YP/AJ	Ok
12	Q1421-08	FD049123.D	27 Feb 2025 15:17	YP/AJ	Ok
13	Q1421-10	FD049124.D	27 Feb 2025 15:53	YP/AJ	Ok
14	I.BLK	FD049125.D	27 Feb 2025 17:08	YP/AJ	Ok
15	20 PPM AROMATIC HC STD	FD049126.D	27 Feb 2025 17:45	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_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049127.D	28 Feb 2025 09:10	YP/AJ	Ok
2	I.BLK	FD049128.D	28 Feb 2025 09:46	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049129.D	28 Feb 2025 10:23	YP/AJ	Ok,M
4	PB166923BL	FD049130.D	28 Feb 2025 11:00	YP/AJ	Ok
5	PB166923BS	FD049131.D	28 Feb 2025 11:37	YP/AJ	Ok
6	PB166923BSD	FD049132.D	28 Feb 2025 12:13	YP/AJ	Ok
7	Q1415-01	FD049133.D	28 Feb 2025 12:50	YP/AJ	Ok
8	Q1415-02	FD049134.D	28 Feb 2025 13:26	YP/AJ	Ok
9	Q1415-03	FD049135.D	28 Feb 2025 14:03	YP/AJ	Ok
10	Q1415-04	FD049136.D	28 Feb 2025 14:40	YP/AJ	Ok
11	Q1421-07	FD049137.D	28 Feb 2025 15:16	YP/AJ	Ok
12	I.BLK	FD049138.D	28 Feb 2025 15:53	YP/AJ	Ok
13	20 PPM AROMATIC HC STD	FD049139.D	28 Feb 2025 16:30	YP/AJ	Ok
14	Q1421-01	FD049140.D	28 Feb 2025 17:44	YP/AJ	Ok
15	Q1421-01D	FD049141.D	28 Feb 2025 18:20	YP/AJ	Ok,M
16	Q1421-02	FD049142.D	28 Feb 2025 18:56	YP/AJ	Ok
17	Q1421-03	FD049143.D	28 Feb 2025 19:32	YP/AJ	Ok
18	Q1421-09	FD049144.D	28 Feb 2025 20:09	YP/AJ	Ok
19	Q1422-01	FD049145.D	28 Feb 2025 20:46	YP/AJ	Ok
20	Q1422-02	FD049146.D	28 Feb 2025 21:22	YP/AJ	Ok
21	Q1447-01	FD049147.D	28 Feb 2025 21:59	YP/AJ	Dilution

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FD049148.D	28 Feb 2025 23:13	YP/AJ	Ok
23	20 PPM AROMATIC HC STD	FD049149.D	28 Feb 2025 23:50	YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC021125AL

Review By	yogesh	Review On	2/10/2025 4:11:01 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:33 AM		
SubDirectory	FC021125AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068250.D	10 Feb 2025 15:12		YP/AJ	Ok
2	I.BLK	I.BLK	FC068251.D	10 Feb 2025 15:48		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068252.D	10 Feb 2025 16:24		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068253.D	10 Feb 2025 17:01		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068254.D	10 Feb 2025 17:38		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068255.D	10 Feb 2025 18:14		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068256.D	10 Feb 2025 18:50		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068257.D	10 Feb 2025 19:26		YP/AJ	Ok
9	I.BLK	I.BLK	FC068258.D	10 Feb 2025 20:39		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068259.D	10 Feb 2025 21:16		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022725AL

Review By	yogesh	Review On	2/27/2025 10:00:10 AM		
Supervise By	Ankita	Supervise On	2/28/2025 10:37:26 AM		
SubDirectory	FC022725AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068303.D	27 Feb 2025 06:46		YP/AJ	Ok
2	I.BLK	I.BLK	FC068304.D	27 Feb 2025 07:22		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068305.D	27 Feb 2025 08:35		YP/AJ	Ok
4	PB166883BL	PB166883BL	FC068306.D	27 Feb 2025 10:26		YP/AJ	Ok
5	PB166883BS	PB166883BS	FC068307.D	27 Feb 2025 11:02		YP/AJ	Ok
6	PB166883TB	PB166883TB	FC068308.D	27 Feb 2025 11:38		YP/AJ	Ok
7	Q1421-04	P001-CLAY-CF01-01	FC068309.D	27 Feb 2025 12:14		YP/AJ	Ok
8	I.BLK	I.BLK	FC068310.D	27 Feb 2025 12:50		YP/AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068311.D	27 Feb 2025 13:27		YP/AJ	Ok
10	Q1421-05	P001-CLAY-CF01-01MS	FC068312.D	27 Feb 2025 14:03	FC068309.D	YP/AJ	Ok,M
11	Q1421-06	P001-CLAY-CF01-01MSD	FC068313.D	27 Feb 2025 14:40	FC068309.D!FC068312.D	YP/AJ	Ok,M
12	Q1421-08	P001-CLAY-CF01-02	FC068314.D	27 Feb 2025 15:17		YP/AJ	Ok
13	Q1421-10	P001-CLAY-CF02-01	FC068315.D	27 Feb 2025 15:53		YP/AJ	Ok
14	PP24210	PP24210	FC068316.D	27 Feb 2025 16:31		YP/AJ	Ok
15	I.BLK	I.BLK	FC068317.D	27 Feb 2025 17:08		YP/AJ	Ok
16	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068318.D	27 Feb 2025 17:45		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068319.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FC068320.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068321.D	28 Feb 2025 10:23		YP/AJ	Ok
4	PB166923BL	PB166923BL	FC068322.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FC068323.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FC068324.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FC068325.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FC068326.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FC068327.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FC068328.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FC068329.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FC068330.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068331.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FC068332.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FC068333.D	28 Feb 2025 18:20		YP/AJ	Ok
16	Q1421-02	P001-CLAY-CF01-01M	FC068334.D	28 Feb 2025 18:56	FC068332.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FC068335.D	28 Feb 2025 19:32	FC068332.D!FC068334.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FC068336.D	28 Feb 2025 20:09		YP/AJ	Ok

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

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC022825AL

Review By	yogesh	Review On	2/28/2025 11:41:16 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:27 PM		
SubDirectory	FC022825AL	HP Acquire Method		HP Processing Method	FC021125AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC	PP24176
Internal Standard/PEM	
ICV/I.BLK	PP24174,PP24179
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1422-01	B-154-SB01	FC068337.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FC068338.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FC068339.D	28 Feb 2025 21:59	need 10x & 100x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FC068340.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068341.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD021125AR

Review By	yogesh	Review On	2/10/2025 4:12:05 PM		
Supervise By	Ankita	Supervise On	2/11/2025 9:13:44 AM		
SubDirectory	FD021125AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049070.D	10 Feb 2025 12:09		YP/AJ	Ok
2	I.BLK	I.BLK	FD049071.D	10 Feb 2025 12:45		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049072.D	10 Feb 2025 13:22		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049073.D	10 Feb 2025 13:58		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049074.D	10 Feb 2025 14:35		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049075.D	10 Feb 2025 15:12		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049076.D	10 Feb 2025 15:48		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049077.D	10 Feb 2025 16:24		YP/AJ	Ok,M
9	I.BLK	I.BLK	FD049078.D	10 Feb 2025 17:01		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049079.D	10 Feb 2025 17:38		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_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022725AR

Review By	yogesh	Review On	2/27/2025 10:01:07 AM		
Supervise By	Ankita	Supervise On	2/28/2025 10:38:03 AM		
SubDirectory	FD022725AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049112.D	27 Feb 2025 06:46		YP/AJ	Ok
2	I.BLK	I.BLK	FD049113.D	27 Feb 2025 07:22		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049114.D	27 Feb 2025 08:35		YP/AJ	Ok
4	PB166883BL	PB166883BL	FD049115.D	27 Feb 2025 10:26		YP/AJ	Ok
5	PB166883BS	PB166883BS	FD049116.D	27 Feb 2025 11:02		YP/AJ	Ok,M
6	PB166883TB	PB166883TB	FD049117.D	27 Feb 2025 11:38		YP/AJ	Ok
7	Q1421-04	P001-CLAY-CF01-01	FD049118.D	27 Feb 2025 12:14		YP/AJ	Ok
8	I.BLK	I.BLK	FD049119.D	27 Feb 2025 12:50		YP/AJ	Ok
9	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049120.D	27 Feb 2025 13:27		YP/AJ	Ok
10	Q1421-05	P001-CLAY-CF01-01MS	FD049121.D	27 Feb 2025 14:03		YP/AJ	Ok
11	Q1421-06	P001-CLAY-CF01-01MSD	FD049122.D	27 Feb 2025 14:40		YP/AJ	Ok
12	Q1421-08	P001-CLAY-CF01-02	FD049123.D	27 Feb 2025 15:17		YP/AJ	Ok
13	Q1421-10	P001-CLAY-CF02-01	FD049124.D	27 Feb 2025 15:53		YP/AJ	Ok
14	I.BLK	I.BLK	FD049125.D	27 Feb 2025 17:08		YP/AJ	Ok
15	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049126.D	27 Feb 2025 17:45		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_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049127.D	28 Feb 2025 09:10		YP/AJ	Ok
2	I.BLK	I.BLK	FD049128.D	28 Feb 2025 09:46		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049129.D	28 Feb 2025 10:23		YP/AJ	Ok,M
4	PB166923BL	PB166923BL	FD049130.D	28 Feb 2025 11:00		YP/AJ	Ok
5	PB166923BS	PB166923BS	FD049131.D	28 Feb 2025 11:37		YP/AJ	Ok
6	PB166923BSD	PB166923BSD	FD049132.D	28 Feb 2025 12:13		YP/AJ	Ok
7	Q1415-01	B-163-SB01	FD049133.D	28 Feb 2025 12:50		YP/AJ	Ok
8	Q1415-02	B-172-SB01	FD049134.D	28 Feb 2025 13:26		YP/AJ	Ok
9	Q1415-03	B-163-SB02	FD049135.D	28 Feb 2025 14:03		YP/AJ	Ok
10	Q1415-04	B-172-SB02	FD049136.D	28 Feb 2025 14:40		YP/AJ	Ok
11	Q1421-07	P001-CLAY-CF01-02	FD049137.D	28 Feb 2025 15:16		YP/AJ	Ok
12	I.BLK	I.BLK	FD049138.D	28 Feb 2025 15:53		YP/AJ	Ok
13	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049139.D	28 Feb 2025 16:30		YP/AJ	Ok
14	Q1421-01	P001-CLAY-CF01-01	FD049140.D	28 Feb 2025 17:44		YP/AJ	Ok
15	Q1421-01D	Q1421-01D	FD049141.D	28 Feb 2025 18:20		YP/AJ	Ok,M
16	Q1421-02	P001-CLAY-CF01-01M	FD049142.D	28 Feb 2025 18:56	FD049140.D	YP/AJ	Ok
17	Q1421-03	P001-CLAY-CF01-01M	FD049143.D	28 Feb 2025 19:32	FD049140.D!FD049142.D	YP/AJ	Ok
18	Q1421-09	P001-CLAY-CF02-01	FD049144.D	28 Feb 2025 20:09		YP/AJ	Ok

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

Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD022825AR

Review By	yogesh	Review On	2/28/2025 11:42:15 AM		
Supervise By	Ankita	Supervise On	3/4/2025 12:54:39 PM		
SubDirectory	FD022825AR	HP Acquire Method		HP Processing Method	FD021125AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP24199
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1422-01	B-154-SB01	FD049145.D	28 Feb 2025 20:46		YP/AJ	Ok
20	Q1422-02	B-154-SB02	FD049146.D	28 Feb 2025 21:22		YP/AJ	Ok
21	Q1447-01	WC1	FD049147.D	28 Feb 2025 21:59	need 25x dilution	YP/AJ	Dilution
22	I.BLK	I.BLK	FD049148.D	28 Feb 2025 23:13		YP/AJ	Ok
23	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049149.D	28 Feb 2025 23:50		YP/AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: Jignesh
Date: 3/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134780

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
Q1401-07	BP-VPB-192-GW-825-827	1	1.15	8.83	9.98	2.04	10.1	sludge sample
Q1401-08	BP-VPB-192-GW-860-862	2	1.13	8.65	9.78	1.93	9.2	sludge sample
Q1401-09	BP-VPB-192-GW-880-882	3	1.13	8.68	9.81	1.64	5.9	sludge sample
Q1403-05	SVOC-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1403-06	PEST-GPC-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q1403-07	PEST-GPC-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q1403-08	PCB-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1403-09	PCB-GPC-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1403-10	SVOC-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1403-11	PEST-GPC2-BLANK	10	1.00	1.00	2.00	2.00	100.0	
Q1403-12	PEST-GPC2-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
Q1403-13	PCB-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q1403-14	PCB-GPC2-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q1407-01	022125	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1411-01	HR-02-02212025	15	1.16	8.48	9.64	9.09	93.5	
Q1411-02	HR-02-02212025-E2	16	1.15	8.70	9.85	9.12	91.6	
Q1411-03	HR-03-02212025	17	1.15	8.81	9.96	9.2	91.4	
Q1411-04	HR-03-02212025-E2	18	1.14	8.43	9.57	8.93	92.4	
Q1412-01	GAS-FUEL-ISLAND-MAT	19	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1413-01	BU-2-022125	20	1.18	8.58	9.76	9.28	94.4	
Q1413-02	BU-2-022125	21	1.19	8.45	9.64	9.22	95.0	
Q1414-01	BUR-1316	22	1.12	8.78	9.9	6.68	63.3	
Q1415-01	B-163-SB01	23	1.15	8.80	9.95	8.94	88.5	
Q1415-02	B-172-SB01	24	1.17	8.60	9.77	8.62	86.6	
Q1415-03	B-163-SB02	25	1.13	8.85	9.98	7.54	72.4	
Q1415-04	B-172-SB02	26	1.18	8.77	9.95	9.05	89.7	
Q1416-01	OK-01-022425	27	1.15	8.48	9.63	8.58	87.6	
Q1416-02	OK-01-022425-E2	28	1.16	8.69	9.85	8.77	87.6	

PERCENT SOLID

Supervisor: Iwona
Analyst: Jignesh
Date: 3/1/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134780

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
Q1418-01	TR-06-02242025	35	1.15	8.71	9.86	8.87	88.6	
Q1418-02	TR-06-02242025-E2	36	1.12	8.75	9.87	8.76	87.3	
Q1420-01	TP-1-WC	29	1.15	8.82	9.97	9.04	89.5	
Q1420-02	TP-1-WC-EPH	30	1.12	8.76	9.88	8.96	89.5	
Q1420-03	TP-1-WC-VOC	31	1.14	8.85	9.99	9.18	90.8	
Q1420-05	TP-2-WC	32	1.15	8.62	9.77	8.79	88.6	
Q1420-06	TP-2-WC-EPH	33	1.15	8.40	9.55	8.63	89.0	
Q1420-07	TP-2-WC-VOC	34	1.14	8.85	9.99	9.00	88.8	
Q1421-01	P001-CLAY-CF01-01	37	1.17	8.60	9.77	7.22	70.3	
Q1421-02	Q1421-01MS	38	1.17	8.60	9.77	7.22	70.3	
Q1421-03	Q1421-01MSD	39	1.17	8.60	9.77	7.22	70.3	
Q1421-04	P001-CLAY-CF01-01	40	1.00	9.00	10.00	1.00	0.0	
Q1421-05	Q1421-04MS	41	1.00	9.00	10.00	1.00	0.0	
Q1421-06	Q1421-04MSD	42	1.00	9.00	10.00	1.00	0.0	
Q1421-07	P001-CLAY-CF01-02	43	1.12	8.55	9.67	7.55	75.2	
Q1421-08	P001-CLAY-CF01-02	44	1.00	9.00	10.00	1.00	0.0	
Q1421-09	P001-CLAY-CF02-01	45	1.11	8.74	9.85	7.96	78.4	
Q1421-10	P001-CLAY-CF02-01	46	1.00	9.00	10.00	1.00	0.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1401-07	BP-VPB-192-GW-825-827	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-08	BP-VPB-192-GW-860-862	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-09	BP-VPB-192-GW-880-882	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1403-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1407-01	022125	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1411-01	HR-02-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG03	H23	02/21/2025	Chemtech -SO
Q1411-02	HR-02-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-03	HR-03-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-04	HR-03-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1412-01	GAS-FUEL-ISLAND-MAT	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1413-01	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1413-02	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JP (WDC)

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JP (WDC)

WORKLIST(Hardcopy Internal Chain)

Lh 134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1414-01	BUR-1316	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1415-01	B-163-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-02	B-172-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-03	B-163-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-04	B-172-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1416-01	OK-01-022425	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1416-02	OK-01-022425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1418-01	TR-06-02242025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1418-02	TR-06-02242025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1420-01	TP-1-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-02	TP-1-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-03	TP-1-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-05	TP-2-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-06	TP-2-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-07	TP-2-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1421-01	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-02	Q1421-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-03	Q1421-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-04	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-05	Q1421-04MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-06	Q1421-04MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25

Raw Sample Received by: JR Wec

Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JR Wec

WORKLIST(Hardcopy Internal Chain)

VR134780

WorkList Name : %1-022425 **WorkList ID :** 187836 **Department :** Wet-Chemistry **Date :** 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-07	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-08	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-09	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-10	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:25
Raw Sample Received by: JR Wolf
Raw Sample Relinquished by: [signature]

Date/Time 02/24/25 17:10
Raw Sample Received by: [signature]
Raw Sample Relinquished by: JR Wolf

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB166861

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 02/25/2025 **Time :** 14:00

End Prep Date : 02/26/2025 **Time :** 07:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID#1	N/A	WP110806
SPLP FLUID#3	N/A	W3112
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Tumbler T-1 /T-2 CHECKED,30 RPM. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/26/25 11:00	JP / TCLP Room	SPG. RM / Ext-Wet Dig / Wet Chem.
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB166861

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
PB166861TB	LEB861	04	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-1
Q1421-04	P001-CLAY-CF01-01	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-05	Q1421-04MS	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-06	Q1421-04MSD	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-08	P001-CLAY-CF01-02	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1421-10	P001-CLAY-CF02-01	03	100.04	2000	N/A	N/A	N/A	5.5	1.5	T-1

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

For SPLP cyanide

PB166861 TP

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
PB166861TB	LEB861	14	N/A	2000	N/A	N/A	N/A	5.03	11.0	T-2
Q1421-04	P001-CLAY-CF01-01	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-05	Q1421-04MS	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-06	Q1421-04MSD	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-08	P001-CLAY-CF01-02	12	100.03	2000	N/A	N/A	N/A	6.2	12.0	T-2
Q1421-10	P001-CLAY-CF02-01	13	100.05	2000	N/A	N/A	N/A	6.0	11.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166861TB	LEB861	N/A	N/A	N/A	N/A	N/A	N/A
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	100	N/A
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	100	N/A
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	100	N/A
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	100	N/A
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB166861

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB166861TB	LEB861	N/A	N/A	N/A	N/A	#1	4.24
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	#1	4.24
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	#1	4.24
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	#1	4.24
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	#1	4.24
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q1421 **WorkList ID :** 187869 **Department :** TCLP Extraction **Date :** 02-25-2025 10:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-04	P001-CLAY-CF01-01	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-05	Q1421-04MS	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-06	Q1421-04MSD	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-08	P001-CLAY-CF01-02	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-10	P001-CLAY-CF02-01	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312

Date/Time 02/25/25 12:00

Raw Sample Received by: JD CWC

Raw Sample Relinquished by: JD CSM

Date/Time 02/25/25 16:00

Raw Sample Received by: JD CSM

Raw Sample Relinquished by: JD CWC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166883

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#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 02/26/2025

Extraction Start Time : 11:45

Extraction End Date : 02/27/2025

Extraction End Time : 10:15

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
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	E3878
Baked Na2SO4	N/A	EP2589
Hexane	N/A	E3877
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/27/25	RS (GC Lab)	Y-P-Pesth/PCB.
10:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166883

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/27/2025

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166883BL	PB166883BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB166883BS	PB166883BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB166883TB	PB166883TB	EPH	1000	<2	RUPESH	ritesh	2			3
Q1421-04	P001-CLAY-CF01-01	EPH	1000	<2	RUPESH	ritesh	2		A	4
Q1421-05	Q1421-04MS	EPH	1000	<2	RUPESH	ritesh	2		A	5
Q1421-06	Q1421-04MSD	EPH	1000	<2	RUPESH	ritesh	2		A	6
Q1421-08	P001-CLAY-CF01-02	EPH	1000	<2	RUPESH	ritesh	2		A	7
Q1421-10	P001-CLAY-CF02-01	EPH	1000	<2	RUPESH	ritesh	2		A	8

Rs
2/27

* **Extracts relinguished on the same date as received.**

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB166861

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
PB166861TB	LEB861	04	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-1
Q1421-04	P001-CLAY-CF01-01	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-05	Q1421-04MS	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-06	Q1421-04MSD	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-08	P001-CLAY-CF01-02	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1421-10	P001-CLAY-CF02-01	03	100.04	2000	N/A	N/A	N/A	5.5	1.5	T-1

02/26/25

11:00

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166923

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/27/2025

Extraction Start Time : 13:10

Extraction End Date : 02/28/2025

Extraction End Time : 10:45

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
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	EP2591
Baked Na2SO4	N/A	EP2590
Sand	N/A	E2865
Hexane	N/A	E3877
Methylene Chloride	N/A	E3878
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/28/25	RS (Ext-lab)	Y.P.Pest1PCR
10:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166923

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/28/2025

Sample ID	Client Sample ID	Test	(g)/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166923BL	PB166923BL	EPH	30.02	N/A	ritesh	Evelyn	2			U2-1
PB166923BS	PB166923BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB166923BSD	PB166923BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q1415-01	B-163-SB01	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
Q1415-02	B-172-SB01	EPH	30.05	N/A	ritesh	Evelyn	2	E		5
Q1415-03	B-163-SB02	EPH	30.03	N/A	ritesh	Evelyn	2	E		6
Q1415-04	B-172-SB02	EPH	30.08	N/A	ritesh	Evelyn	2	E		U6-1
Q1421-01	P001-CLAY-CF01-01	EPH	30.05	N/A	ritesh	Evelyn	2	E		2
Q1421-01DUP	P001-CLAY-CF01-01DUP	EPH	30.04	N/A	ritesh	Evelyn	2	E		3
Q1421-02	Q1421-01MS	EPH	30.07	N/A	ritesh	Evelyn	2	E		4
Q1421-03	Q1421-01MSD	EPH	30.03	N/A	ritesh	Evelyn	2	E		5
Q1421-07	P001-CLAY-CF01-02	EPH	30.06	N/A	ritesh	Evelyn	2	F		6
Q1421-09	P001-CLAY-CF02-01	EPH	30.02	N/A	ritesh	Evelyn	2	E		U3-1
Q1422-01	B-154-SB01	EPH	30.07	N/A	ritesh	Evelyn	2	E		2
Q1422-02	B-154-SB02	EPH	30.05	N/A	ritesh	Evelyn	2	E		3
Q1447-01	WC1	EPH	30.01	N/A	ritesh	Evelyn	2	B		4

RS
2/28

* **Extracts relinquished on the same date as received.**

16692-
13:10

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1447 **WorkList ID :** 187944 **Department :** Extraction **Date :** 02-27-2025 13:05:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-02	B-172-SB01	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-03	B-163-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1415-04	B-172-SB02	Solid	EPH	Cool 4 deg C	PORT06	N31	02/22/2025	NJEPH
Q1421-01	P001-CLAY-CF01-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-02	Q1421-01MS	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-03	Q1421-01MSD	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-07	P001-CLAY-CF01-02	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1421-09	P001-CLAY-CF02-01	Solid	EPH	Cool 4 deg C	ROYF02	H31	02/24/2025	NJEPH
Q1422-01	B-154-SB01	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1422-02	B-154-SB02	Solid	EPH	Cool 4 deg C	PORT06	H33	02/23/2025	NJEPH
Q1447-01	WC1	Solid	EPH	Cool 4 deg C	GENV01	H33	02/23/2025	NJEPH

Date/Time 2/27/25 13:05
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by: CP SM

Date/Time 2/27/25 13:30
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ext-Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1421

Test : EPH

Prepbatch ID : PB166883,PB166923,

Sequence ID/Qc Batch ID: FC022725AL,FC022825AL,FD022725AR,FD022825AR,

Standard ID :

EP2569,EP2589,EP2590,EP2591,PP23968,PP23969,PP23970,PP23971,PP23972,PP23973,PP24108,PP24119,PP24170,PP24174,PP24175,PP24176,PP24177,PP24178,PP24179,PP24199,PP24207,

Chemical ID :

E2865,E3551,E3757,E3828,E3846,E3876,E3877,E3878,M6121,P10260,P11139,P12363,P12981,P12983,P13279,P13465,P13472,P13595,P13597,P13598,P13607,P13638,P13639,P13640,P13641,P13642,P13644,P13646,P13647,P13650,P13652,P13654,P13661,P13671,P13685,P13715,P13717,P13744,P13748,P13766,P13769,P13802,P13803,P13809,P13828,P13836,P13840,P13842,P13846,P13855,P13858,P13859,P13860,W3112,W3153,W3177,

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	EP2569	12/02/2024	05/13/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 12/02/2024

FROM 219.00000ml of M6121 + 781.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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
3923	Baked Sodium Sulfate	EP2590	02/26/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 02/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2591	02/26/2025	08/14/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 02/26/2025

FROM 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 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
782	100 PPM Aromatic HC Working STD	PP23968	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.25000ml of P13646 + 0.62500ml of P13465 + 1.25000ml of P10260 + 22.87500ml of E3828 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2945	100 PPM Aromatic HC Working STD (Absolute)	PP23969	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.25000ml of P13647 + 0.62500ml of P13472 + 1.25000ml of P11139 + 22.87500ml of E3828 = 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
787	50 PPM Aromatic HC STD	PP23970	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.50000ml of E3828 + 0.50000ml of PP23968 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
788	20 PPM Aromatic HC STD	PP23971	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.80000ml of E3828 + 0.20000ml of PP23968 = 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
789	10 PPM Aromatic HC STD	PP23972	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23968 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
790	5 PPM Aromatic HC STD	PP23973	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23970 = 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
1331	100 PPM NJEPH Fractionating Surrogate	PP24108	01/14/2025	07/14/2025	Yogesh Patel	None	None	Ankita Jodhani 01/15/2025

FROM 1.25000ml of P13744 + 1.25000ml of P13748 + 1.25000ml of P13766 + 1.25000ml of P13769 + 195.00000ml of W3153 = 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	PP24119	01/16/2025	06/26/2025	Yogesh Patel	None	None	Ankita Jodhani 01/16/2025

FROM 1.25000ml of P13595 + 1.25000ml of P13597 + 1.25000ml of P13598 + 1.25000ml of P13607 + 1.25000ml of P13652 + 1.25000ml of P13654 + 1.25000ml of P13661 + 1.25000ml of P13685 + 490.00000ml of E3846 = Final Quantity: 200.000 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)	PP24170	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.25000ml of P12981 + 0.25000ml of P13671 + 1.25000ml of P12363 + 23.25000ml of W3177 = 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)	PP24174	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.25000ml of P12983 + 0.25000ml of P13650 + 2.50000ml of P13279 + 22.00000ml of W3177 = 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	PP24175	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24170 = 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	PP24176	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24170 = 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	PP24177	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24170 = 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	PP24178	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.90000ml of W3177 + 0.10000ml of PP24175 = 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)	PP24179	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani 02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24174 = 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)	PP24199	11/14/2024	05/09/2025	Yogesh Patel	None	None	Abdul Mirza 03/06/2025

FROM 0.80000ml of E3878 + 0.20000ml of PP23969 = 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
1330	100 PPM NJEPH Spike Solution	PP24207	02/26/2025	08/26/2025	Yogesh Patel	None	None	Ankita Jodhani 02/27/2025

FROM 5.00000ml of P13638 + 5.00000ml of P13639 + 5.00000ml of P13640 + 5.00000ml of P13641 + 5.00000ml of P13642 + 5.00000ml of P13644 + 5.00000ml of P13715 + 5.00000ml of P13717 + 5.00000ml of P13802 + 5.00000ml of P13803 + 5.00000ml of P13809 + 5.00000ml of P13828 + 5.00000ml of P13836 + 5.00000ml of P13840 + 5.00000ml of P13842 + 5.00000ml of P13846 + 5.00000ml of P13855 + 5.00000ml of P13858 + 5.00000ml of P13859 + 5.00000ml of P13860 = Final Quantity: 100.000 ml

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

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	06/30/2025	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	07/01/2025	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 #
phenomenex	SI500025-30 / Cleanert SPE Silica, 5000 mg/25 ml	Z0513CK1	09/04/2025	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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877

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)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0165529	05/14/2025	11/14/2024 / yogesh	01/26/2021 / dhaval	P10260

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	05/14/2025	11/14/2024 / yogesh	10/29/2021 / Abdul	P11139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	08/03/2025	02/03/2025 / yogesh	03/16/2023 / Yogesh	P12363

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/03/2025	02/03/2025 / yogesh	12/20/2023 / Yogesh	P12981

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/03/2025	02/03/2025 / yogesh	12/20/2023 / Yogesh	P12983

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	08/03/2025	02/03/2025 / yogesh	04/11/2024 / yogesh	P13279

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	05/14/2025	11/14/2024 / yogesh	07/23/2024 / yogesh	P13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	05/14/2025	11/14/2024 / yogesh	07/23/2024 / yogesh	P13472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13595

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13598

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13607

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13638

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13639

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13640

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13641

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13642

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13644

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	05/14/2025	11/14/2024 / yogesh	10/16/2024 / yogesh	P13646

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	05/14/2025	11/14/2024 / yogesh	10/16/2024 / yogesh	P13647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13650

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13654

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13661

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13685

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	08/26/2025	02/26/2025 / yogesh	10/24/2024 / yogesh	P13715

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	10/24/2024 / yogesh	P13717

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13744

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13802

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13803

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13809

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13828

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13836

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13840

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13842

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13846

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13855

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13858

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13859

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	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13860

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	11/25/2024 / jignesh	11/21/2024 / jignesh	W3153

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	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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

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)

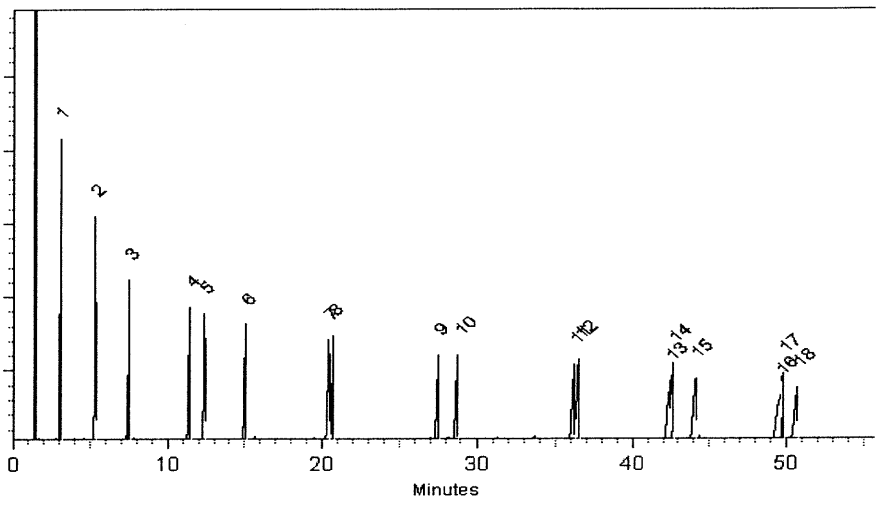
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 RB on 7/24/23 E3551


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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
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	1
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	0.2 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 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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 12/13/24

E 3846

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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 2/12/25

E 3876

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

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd by RP on 2/12/25

E3877

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3878

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

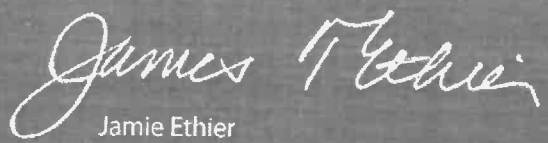
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s):	Lot#
Methylene chloride	104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By: Benson Chan	060420 DATE
Reviewed By: Pedro L. Rentas	060420 DATE

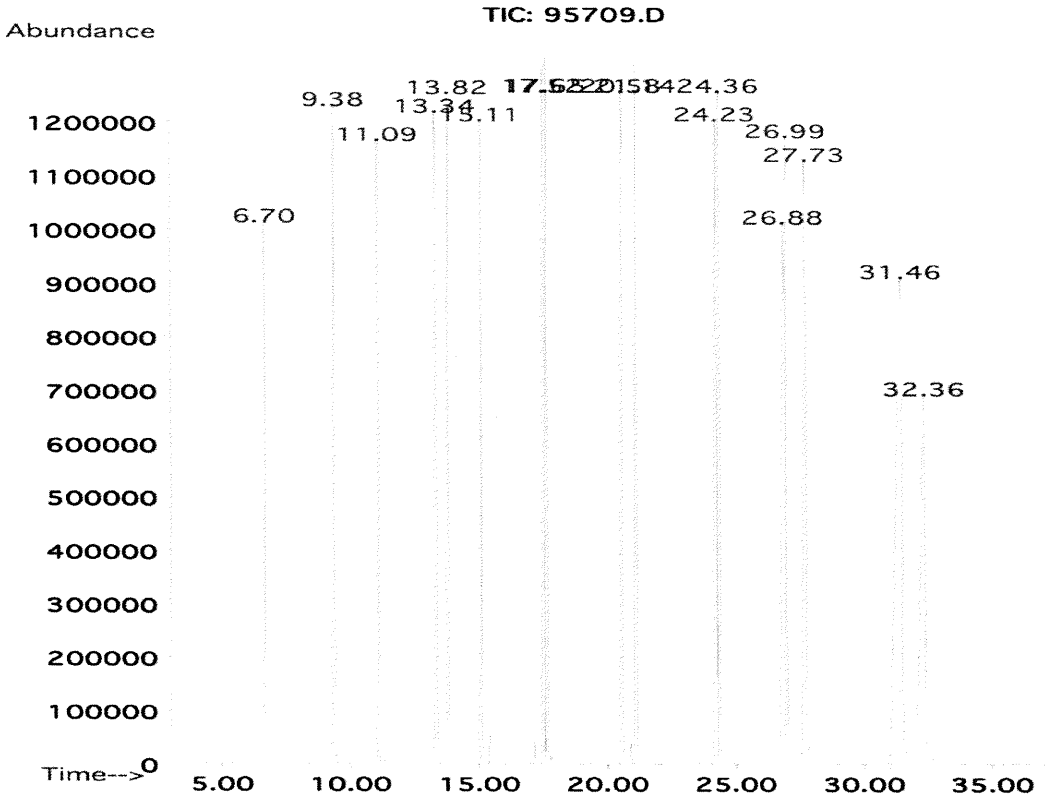
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3.	Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9.	Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10.	Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11.	Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12.	Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13.	Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14.	2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15.	Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25μm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12361 ↓ P12370 } Y.P. 03/16/23

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 59.9753 µg/mL	Gravimetric Unstressed Stressed

8	n-Octadecane (C18) **CAS #** 593-45-3 **Purity** 97%	(Lot VZKOJ)	2,004.7	µg/mL	+/- 11.7645 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

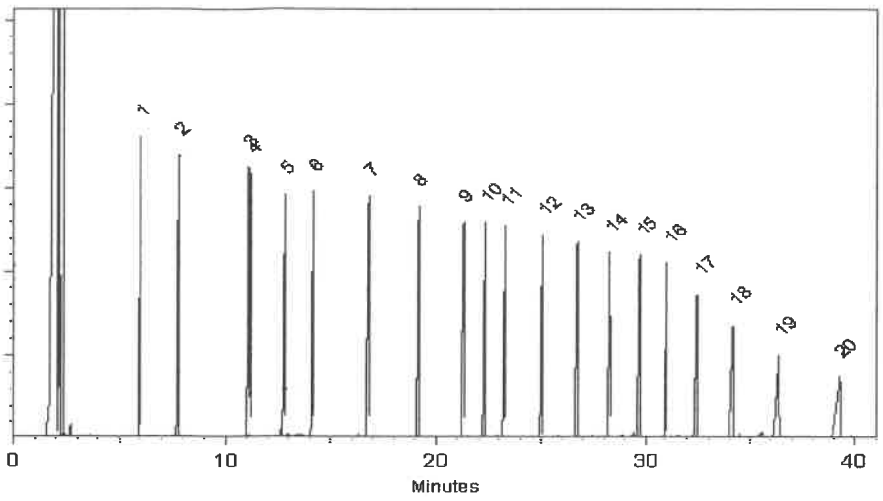
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 **Balance:** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12960 & P12991 Y.P. 12/21/2023

Catalog No. : 31098 **Lot No.:** A0204989

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

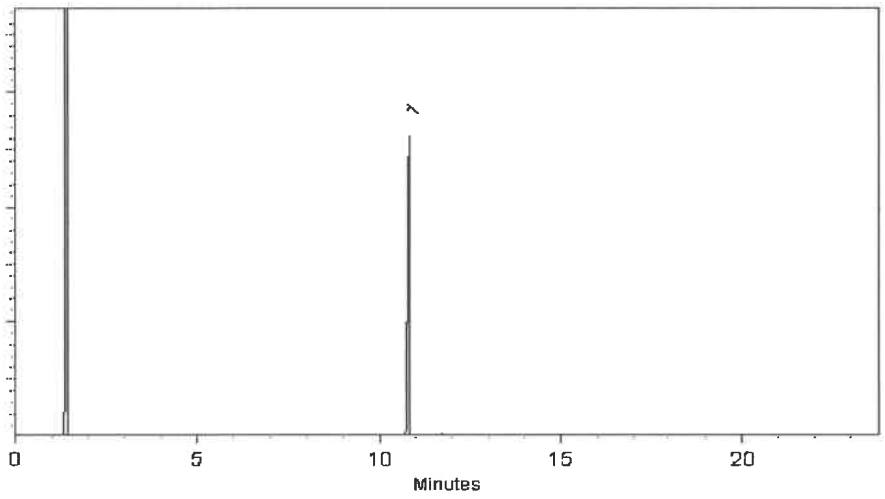
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12960 & P12991 Y.P. 12/21/2023

Catalog No. : 31098 **Lot No.:** A0204989

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

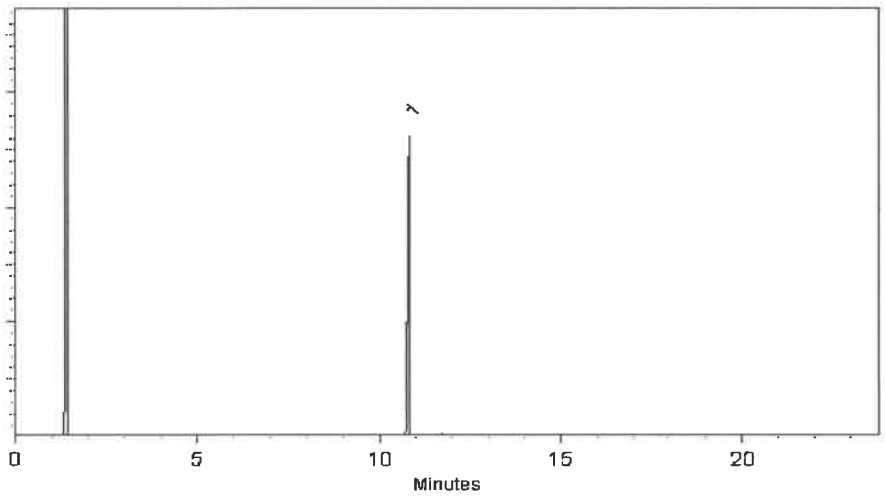
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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).

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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.)

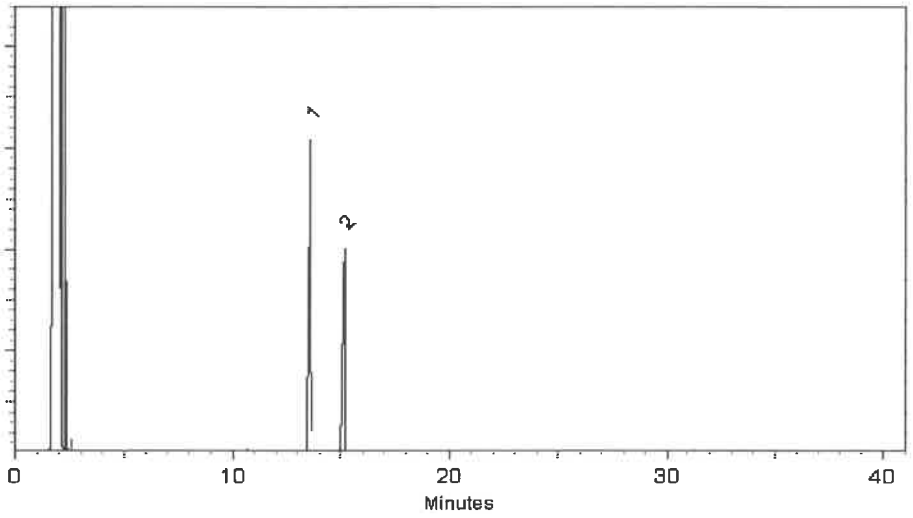
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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.)

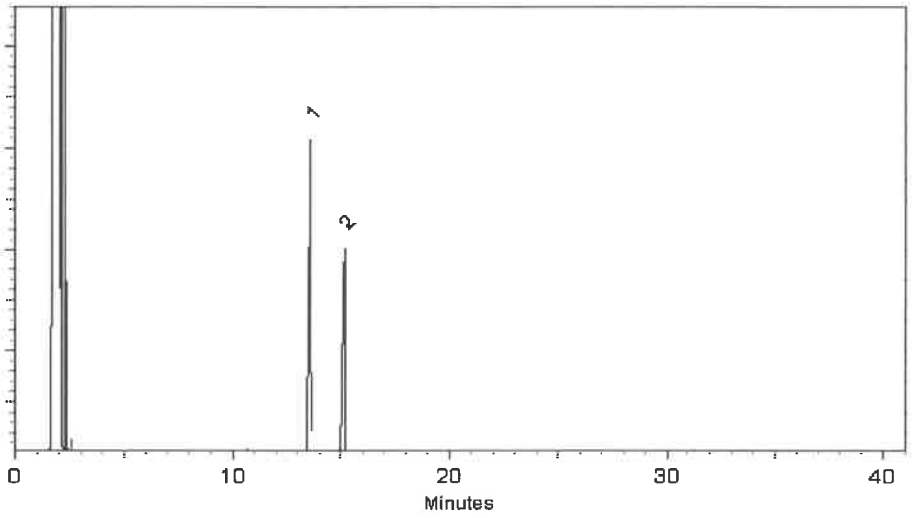
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
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	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* 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.)

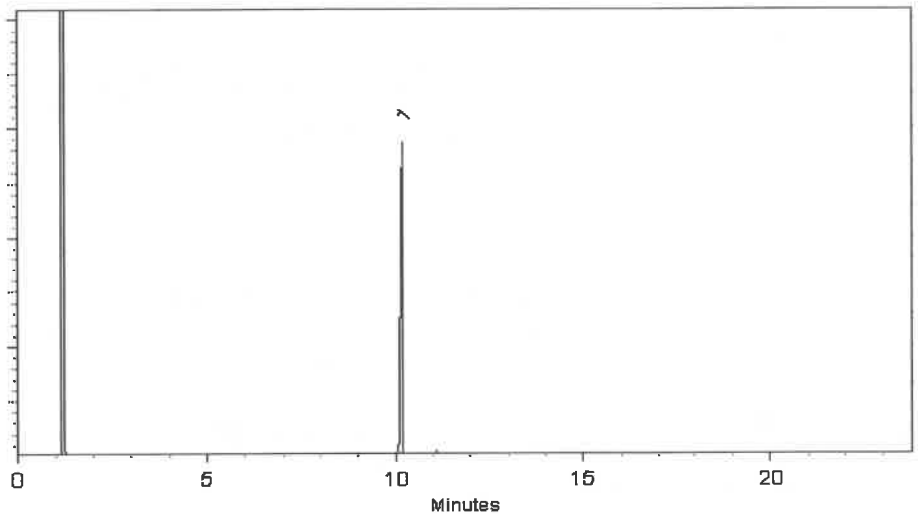
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
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	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* 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.)

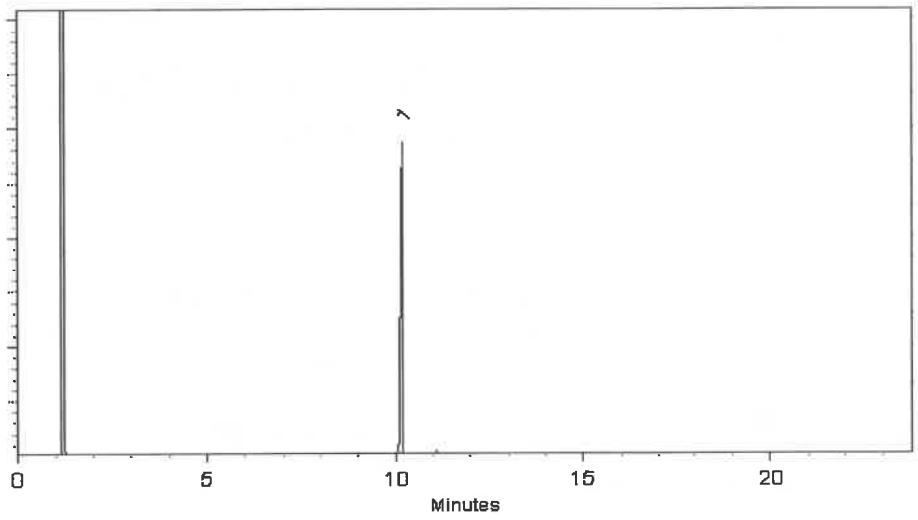
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
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	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* 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.)

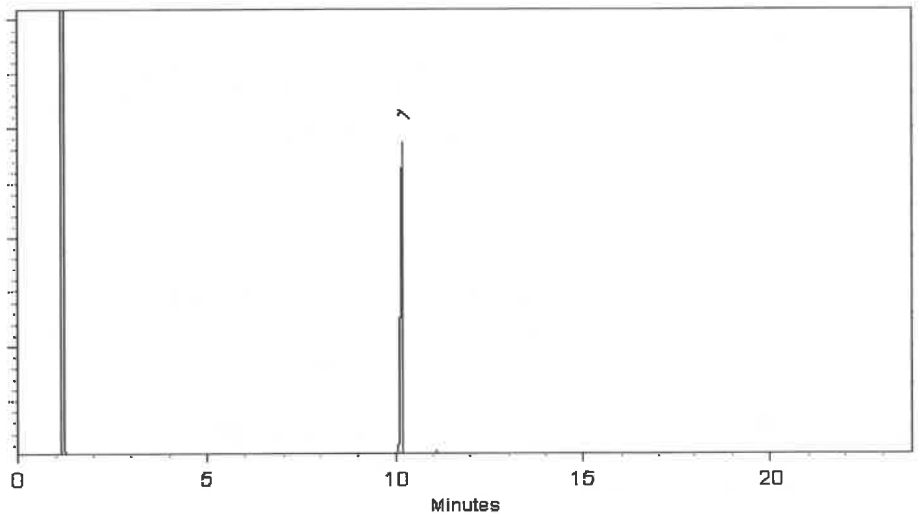
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
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	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* 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.)

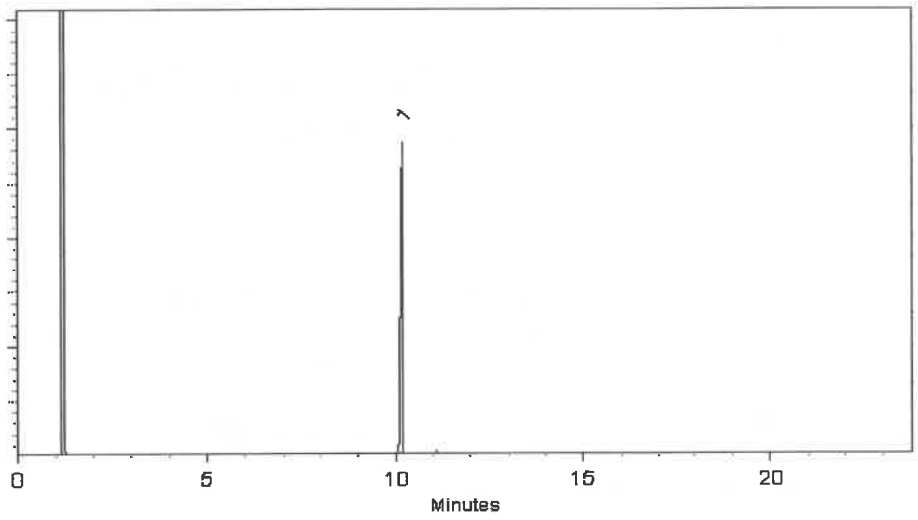
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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. : 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.)

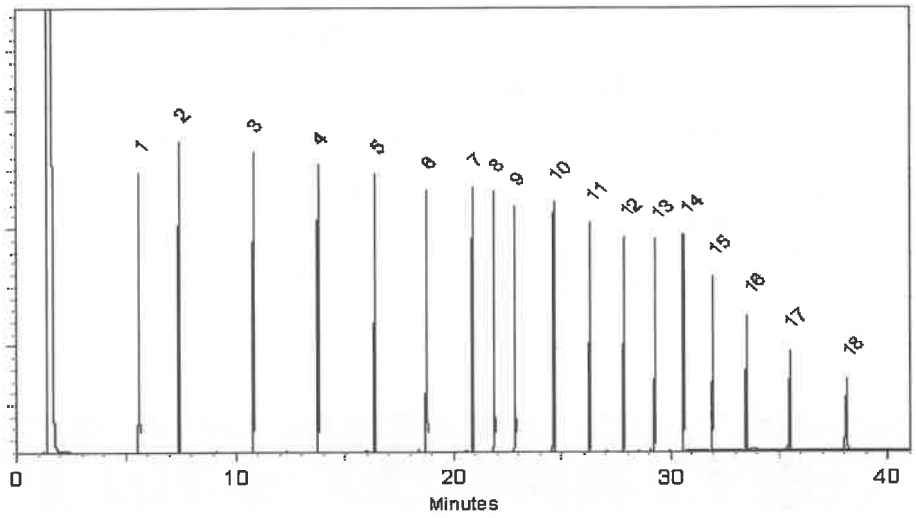
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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. : 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.)

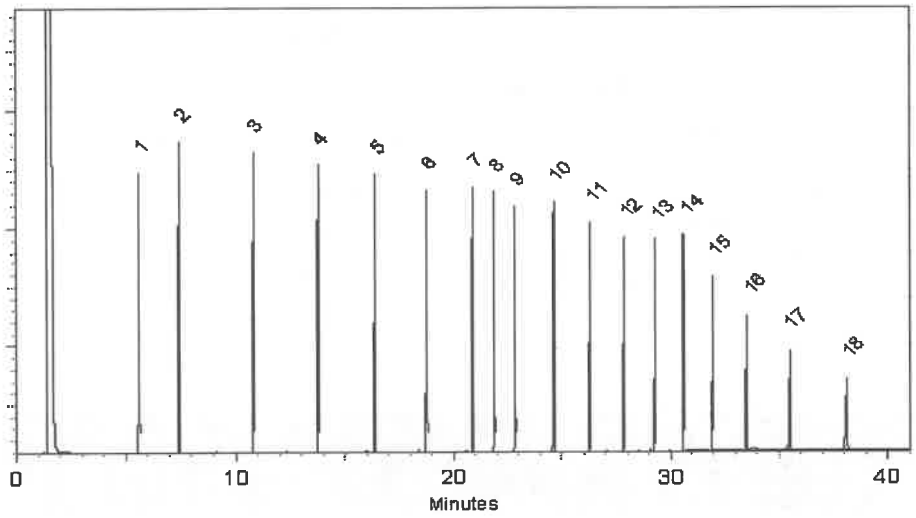
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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. : 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.)

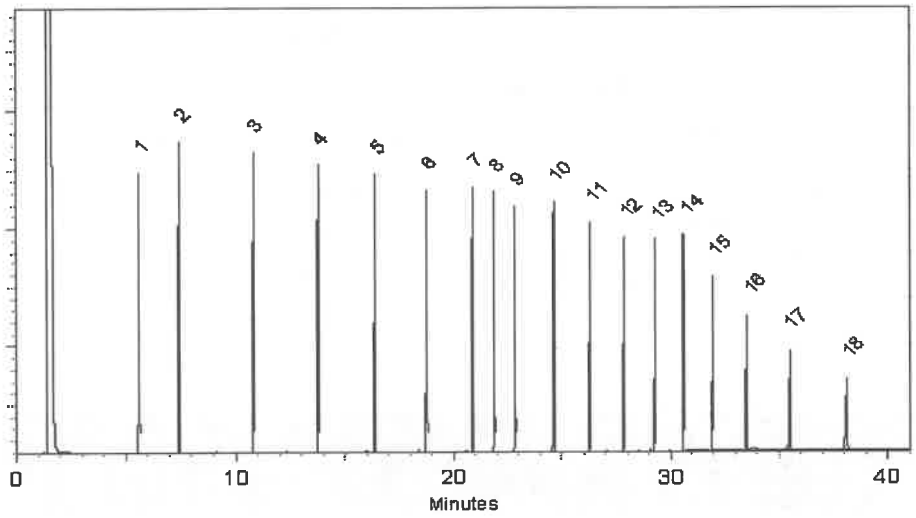
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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. : 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.)

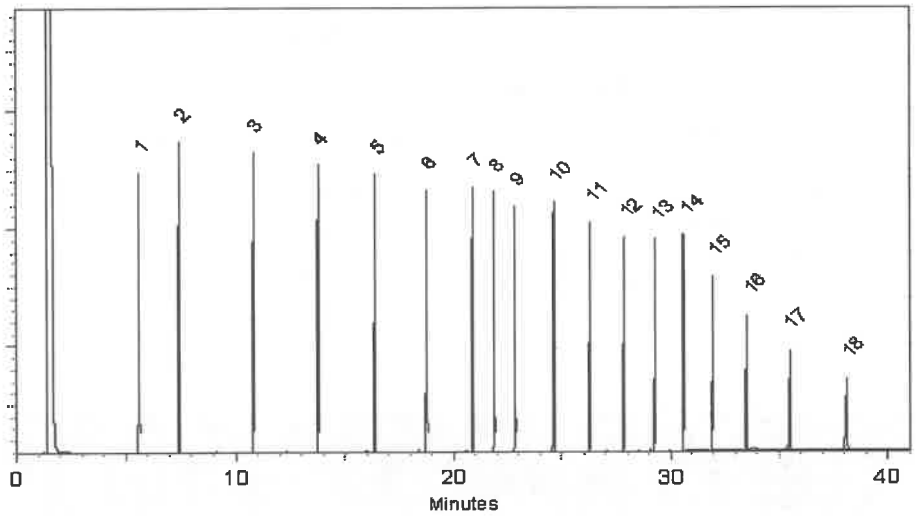
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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. : 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.)

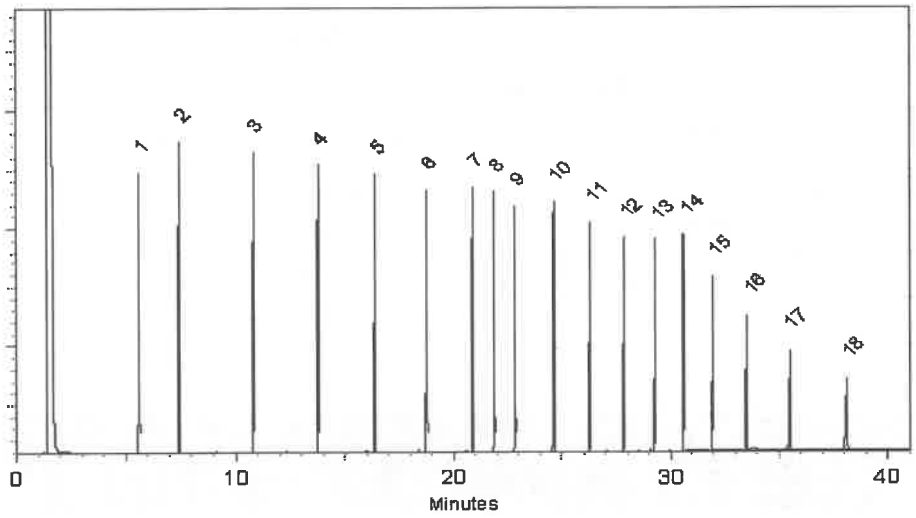
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA
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. : 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.)

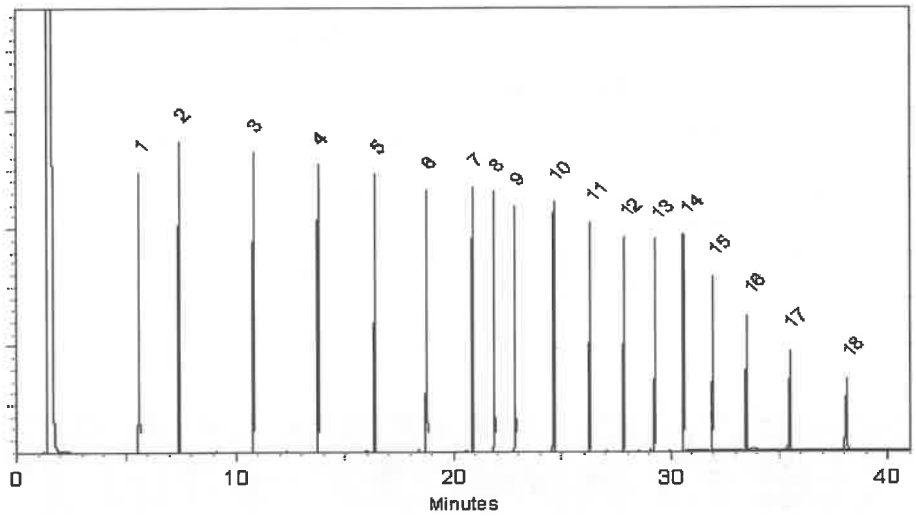
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

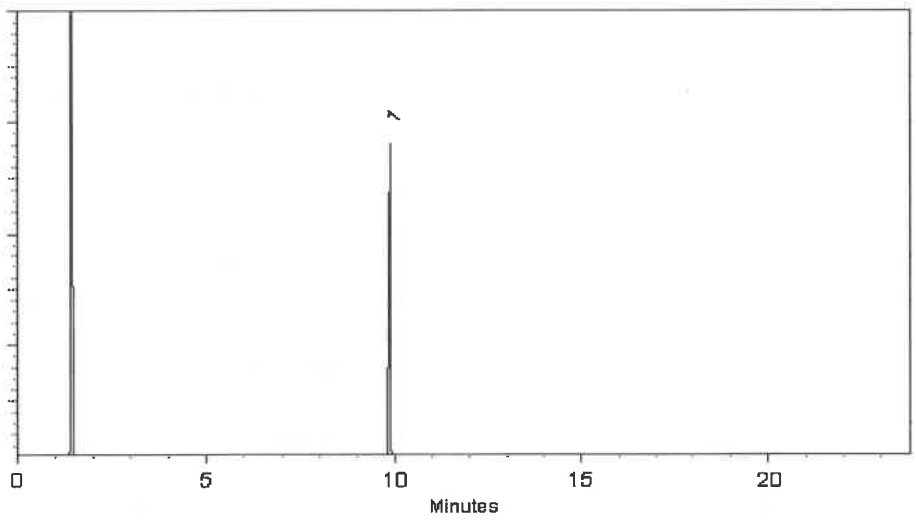
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

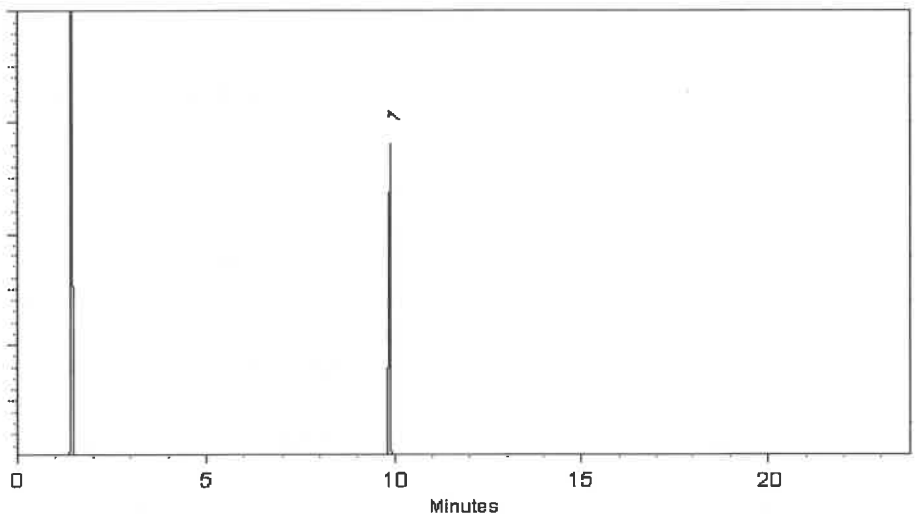
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

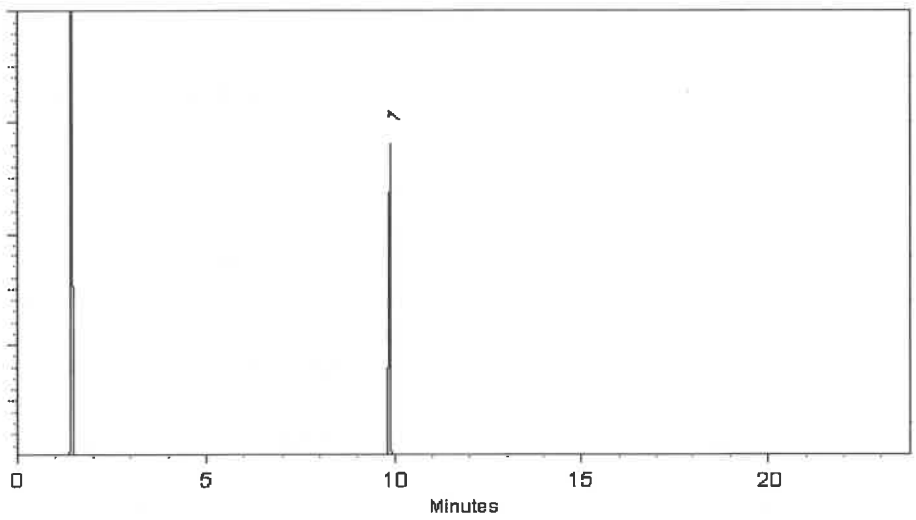
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

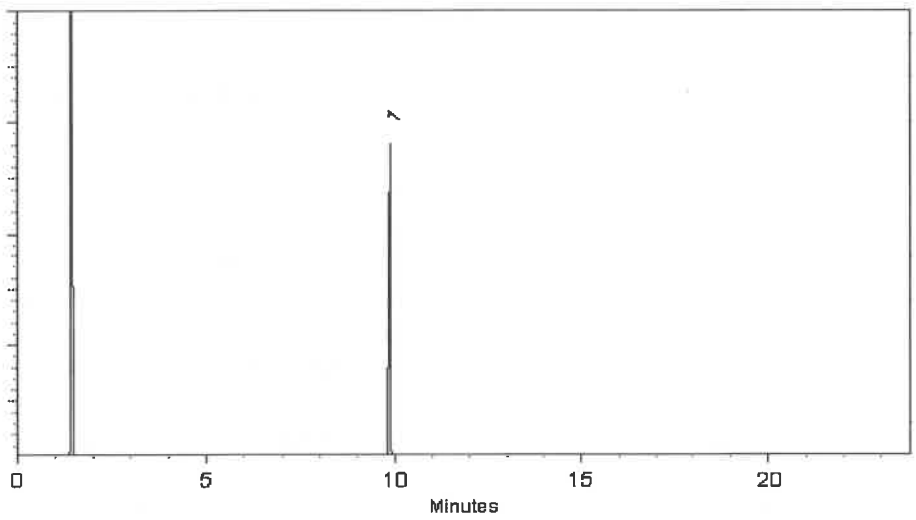
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

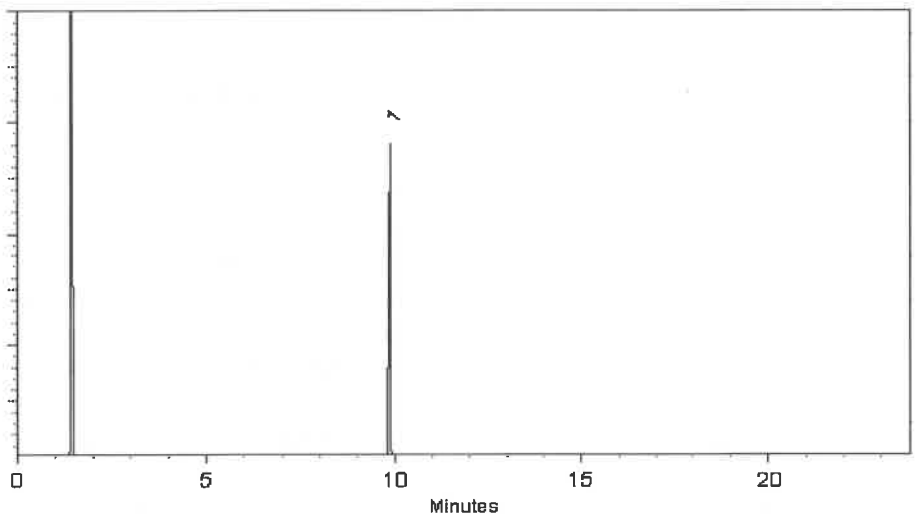
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

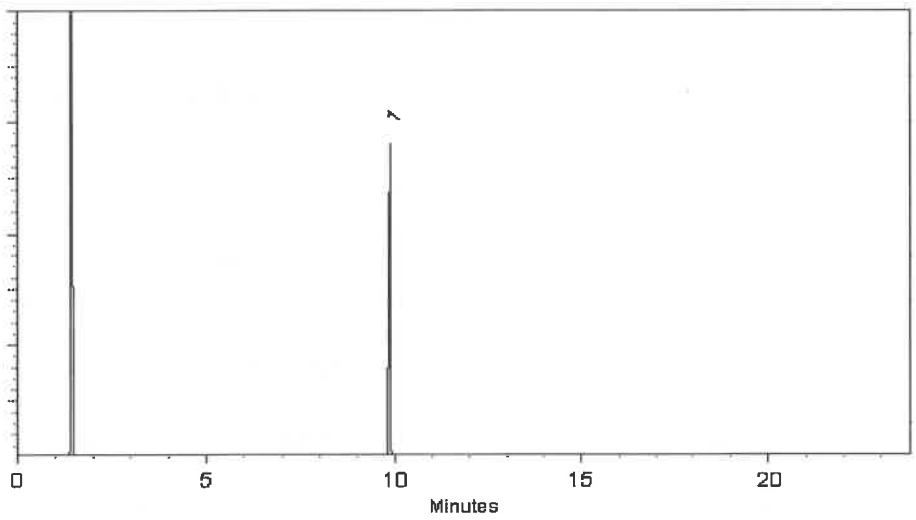
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

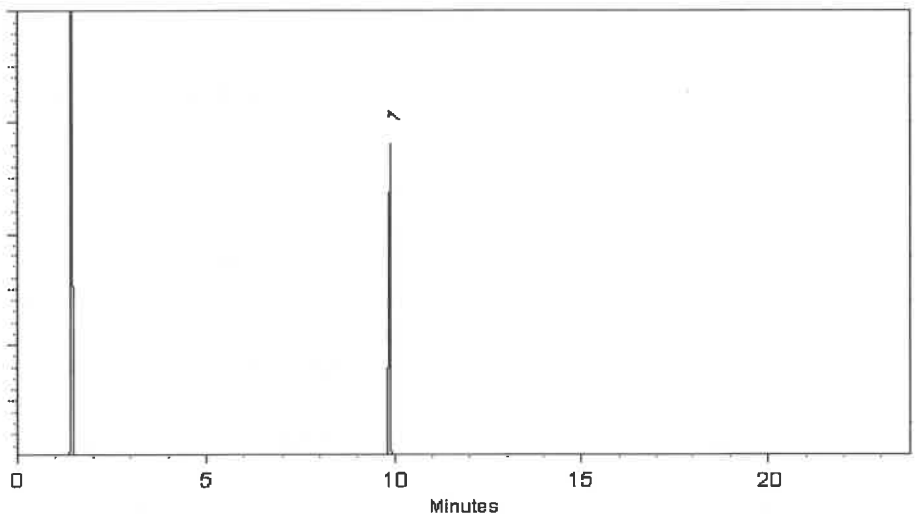
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

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

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.)

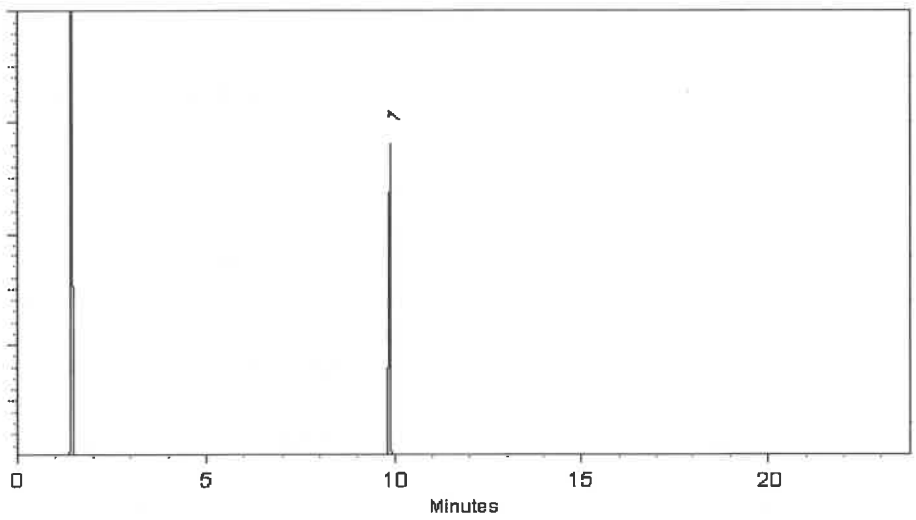
Inj. Temp:
250°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13708
↓
P137-16
Y.P. 10/24/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8	µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

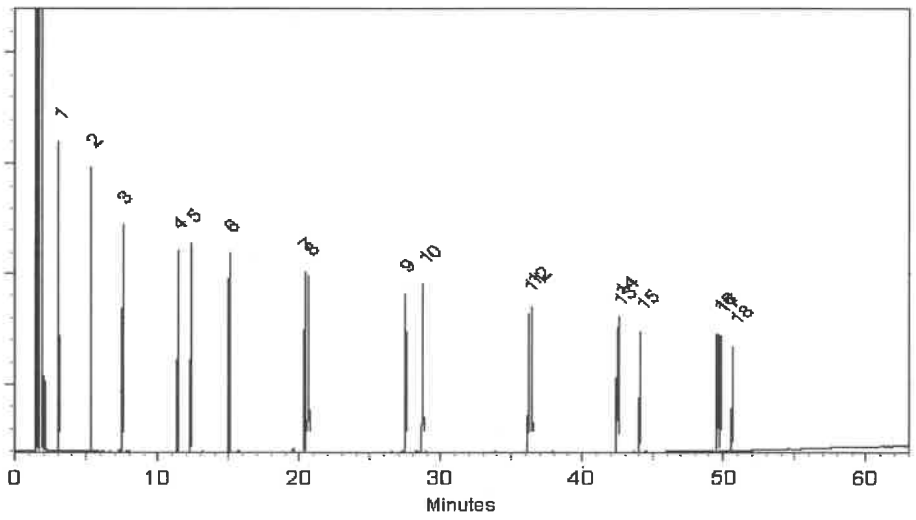
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I **Date Mixed:** 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 13-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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

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

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

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	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.)

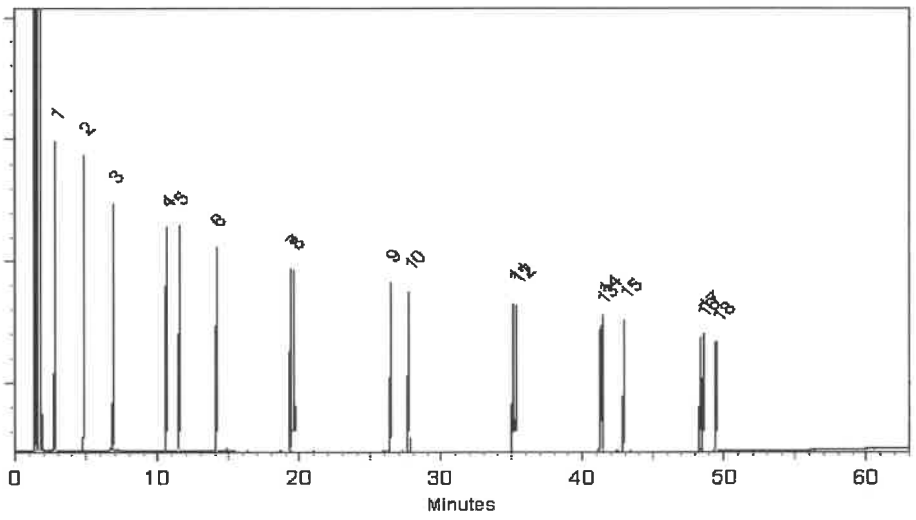
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

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 : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

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%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* 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.)

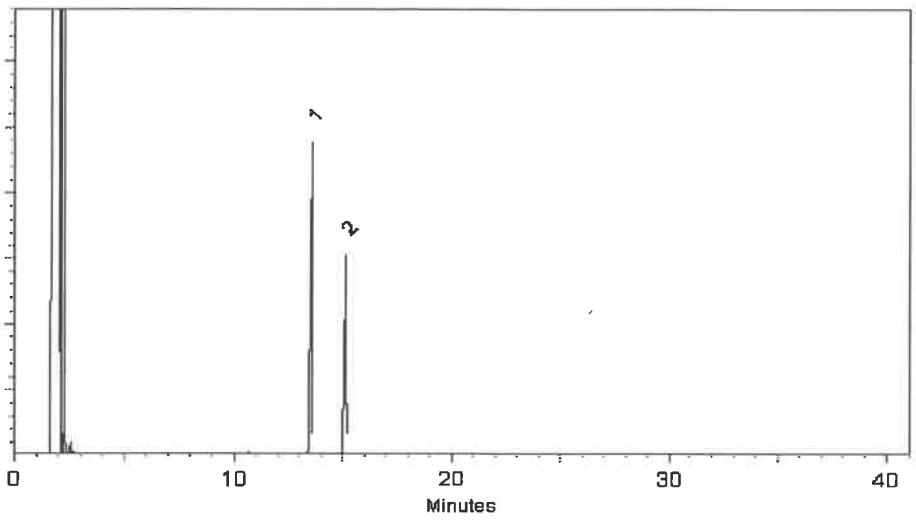
Inj. Temp:
250°C

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.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.:** A0214879

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 : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

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%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* 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.)

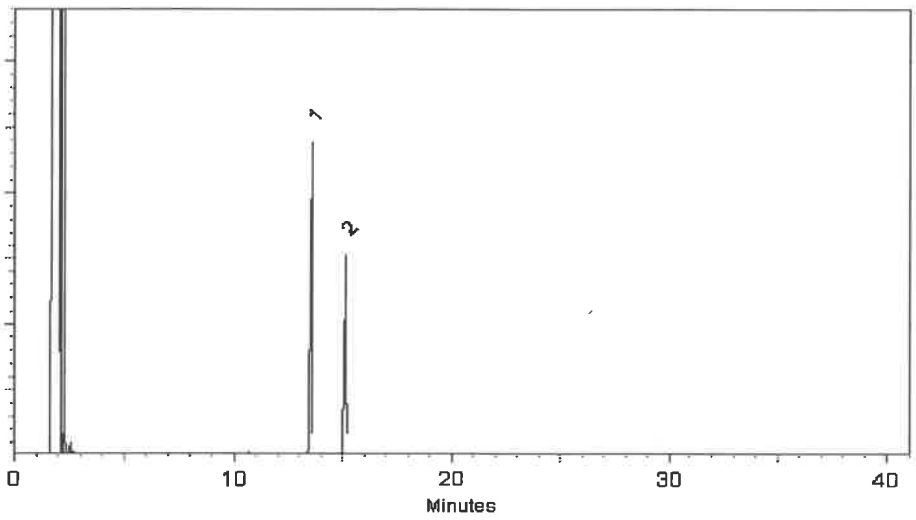
Inj. Temp:
250°C

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.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.:** A0214879

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 : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

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%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* 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.)

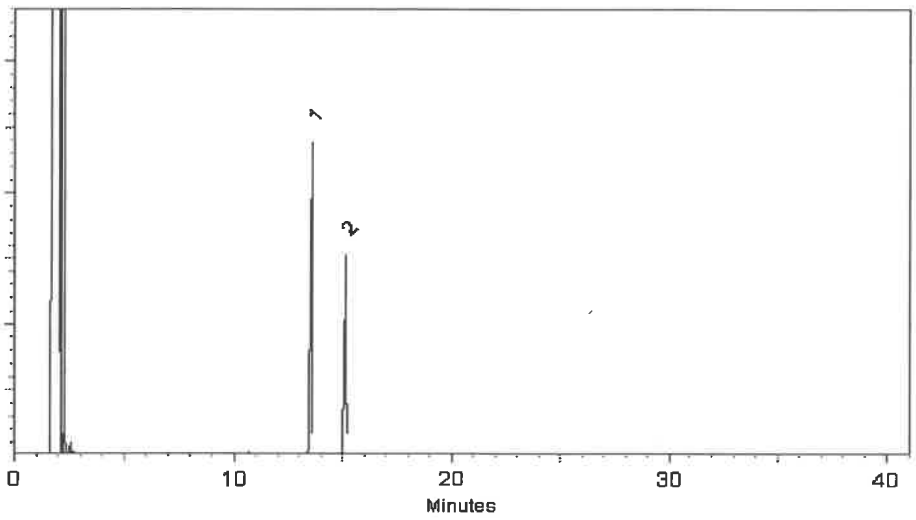
Inj. Temp:
250°C

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.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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.:** A0214879

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 : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

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%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* 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.)

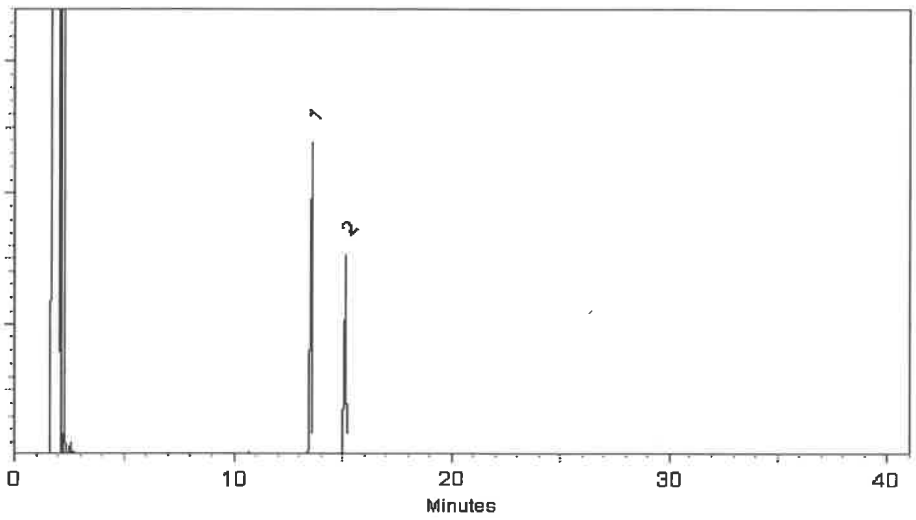
Inj. Temp:
250°C

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.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

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. : 30542 **Lot No.:** A0217408

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, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13889
} Y.P. 12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* 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.)

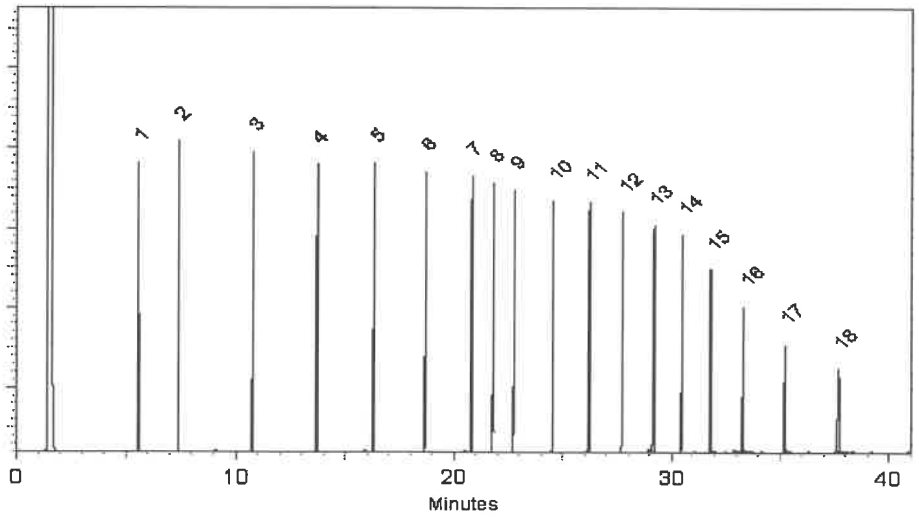
Inj. Temp:
250°C

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.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

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, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13889
} Y.P. 12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* 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.)

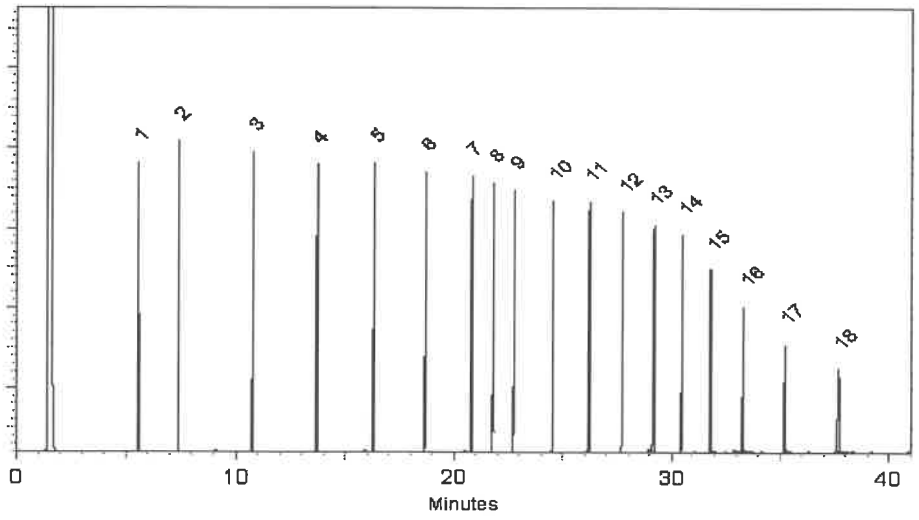
Inj. Temp:
250°C

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.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

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, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13889
} Y.P. 12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* 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.)

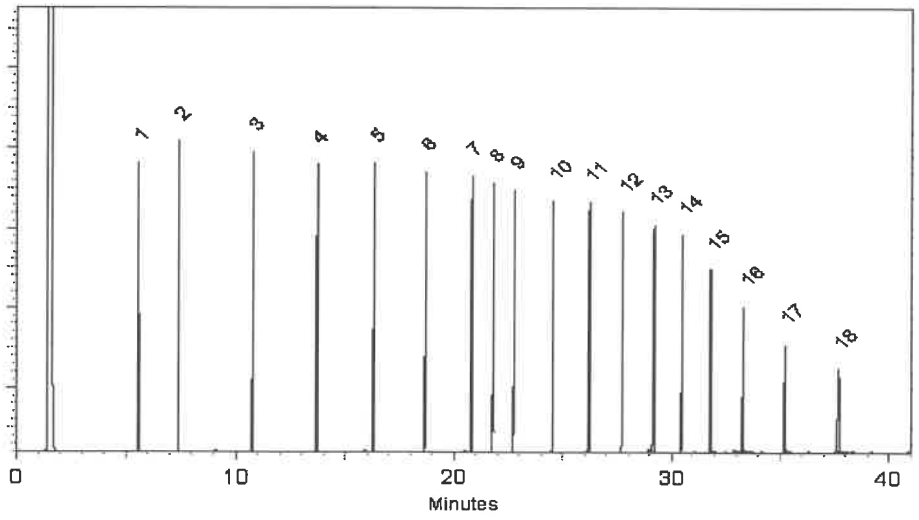
Inj. Temp:
250°C

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.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

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, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13889
} Y.P. 12/09/24

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%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* 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.)

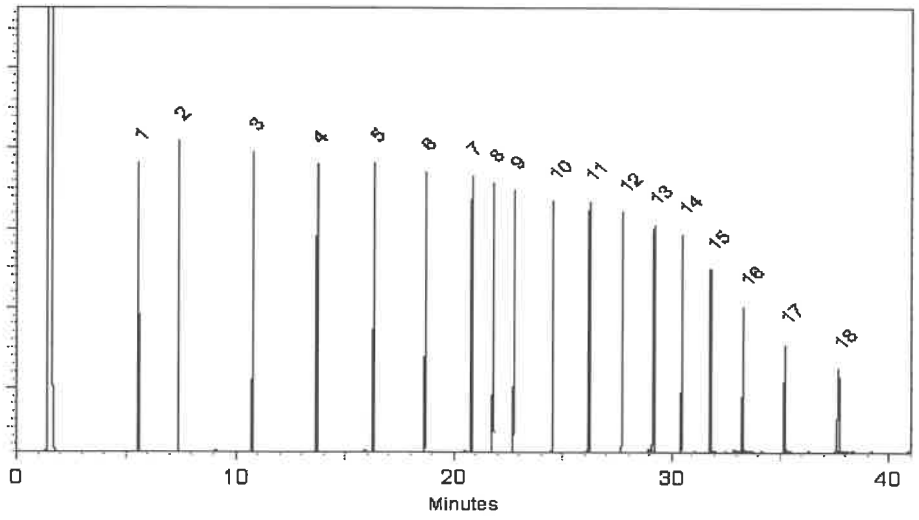
Inj. Temp:
250°C

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.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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

P13835 & P13860 Y.P. 12/09/24

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.)

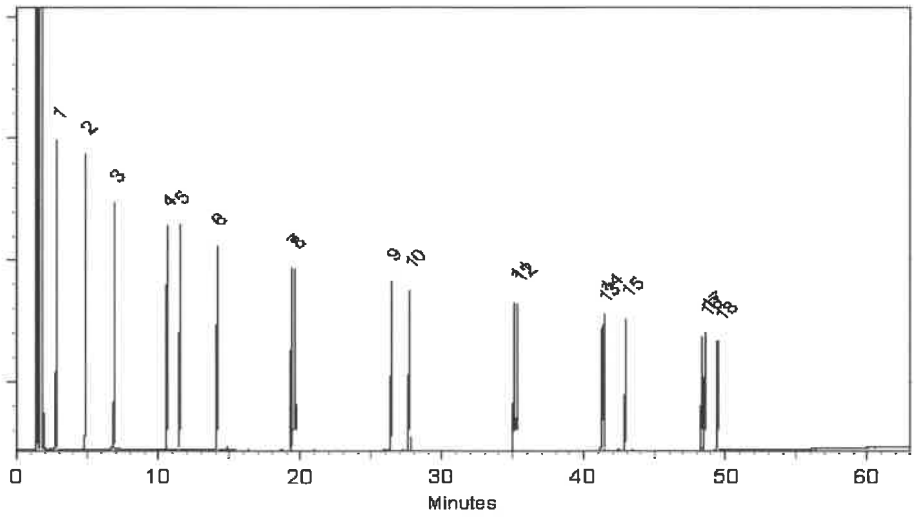
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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

P13835 & P13860 Y.P. 12/09/24

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.)

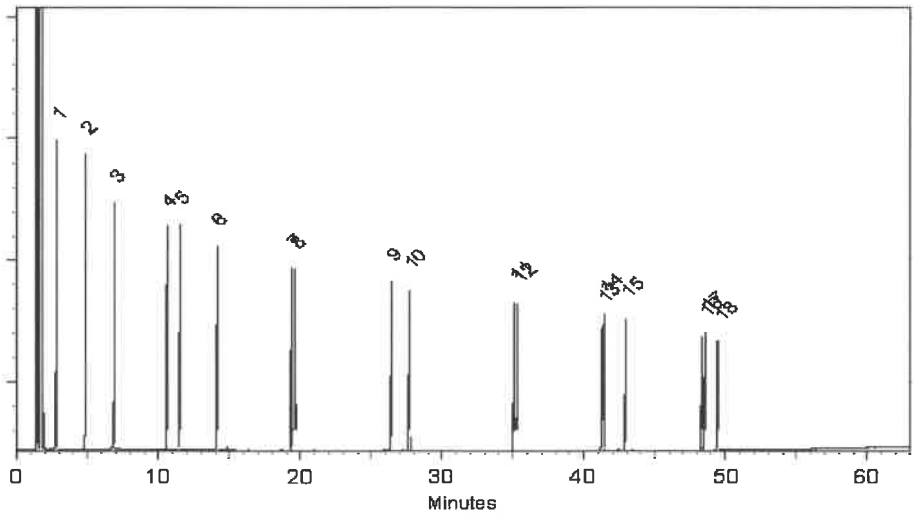
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.

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

P13835 & P13860 Y.P. 12/09/24

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.)

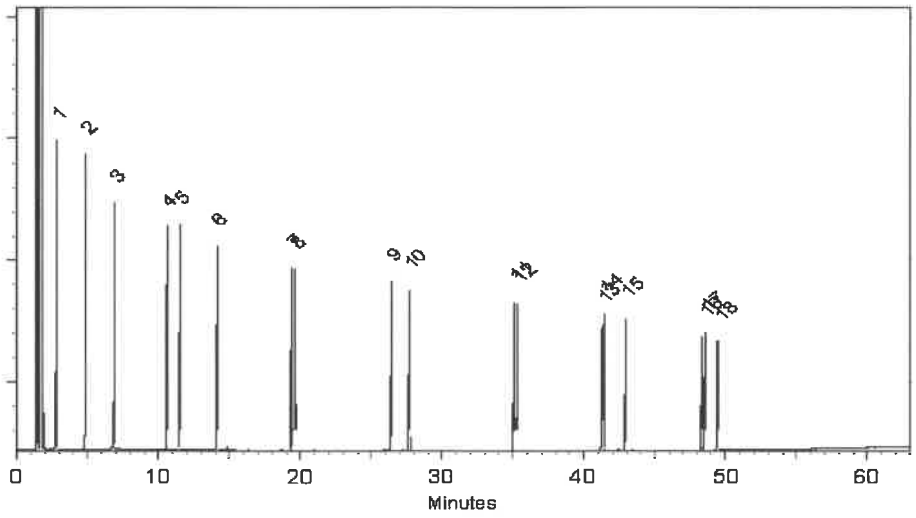
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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

P13835 & P13860 Y.P. 12/09/24

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.)

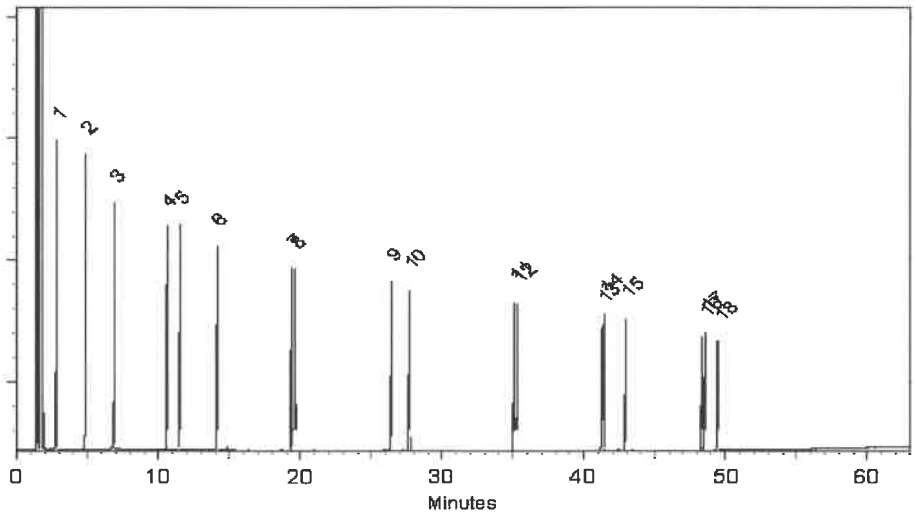
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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

P13835 & P13860 Y.P. 12/09/24

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.)

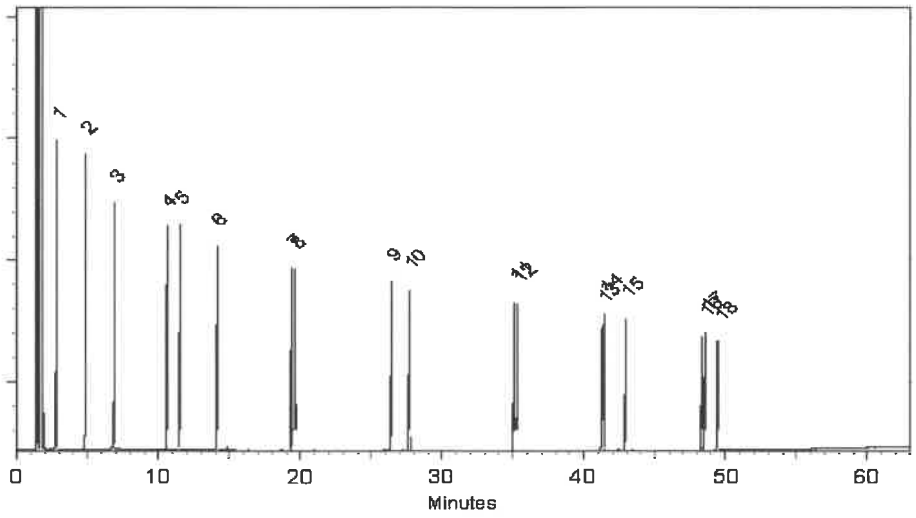
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.

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

P13835 & P13860 Y.P. 12/09/24

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.)

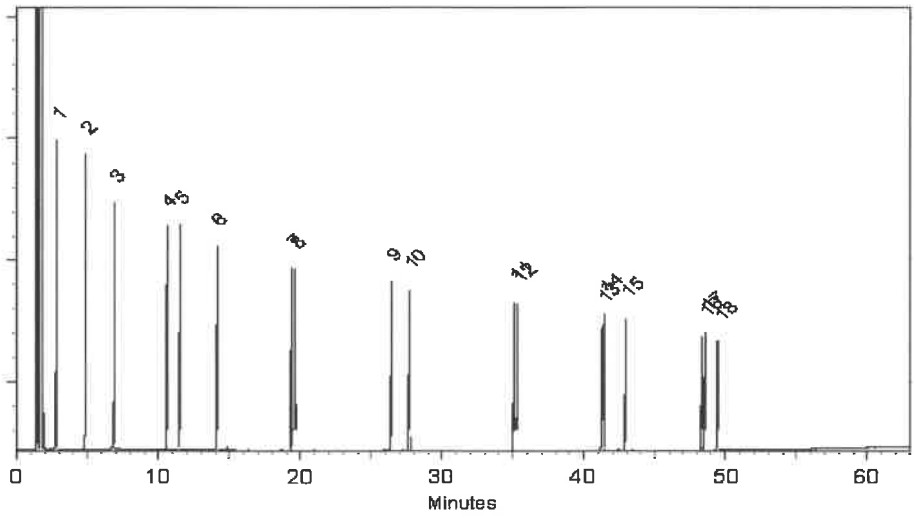
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.

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

P13835 & P13860 Y.P. 12/09/24

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.)

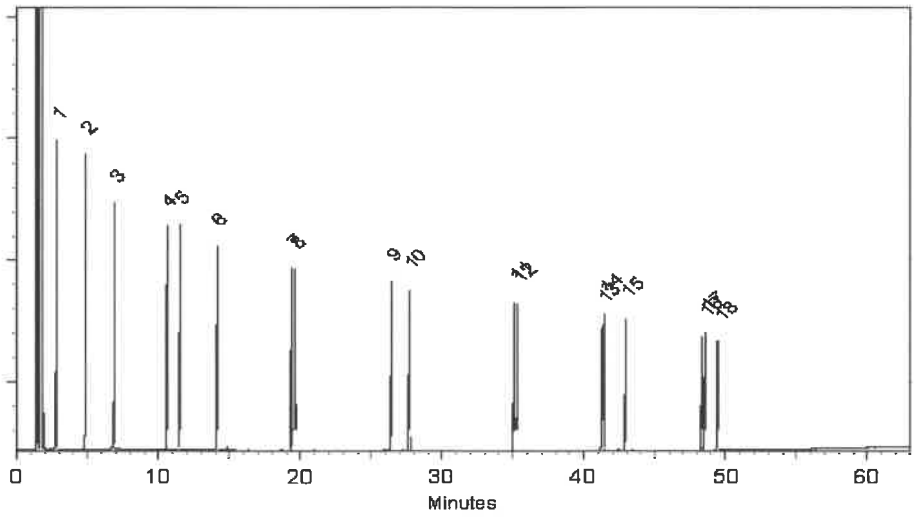
Inj. Temp:
250°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.

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

P13835 & P13860 Y.P. 12/09/24

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.)

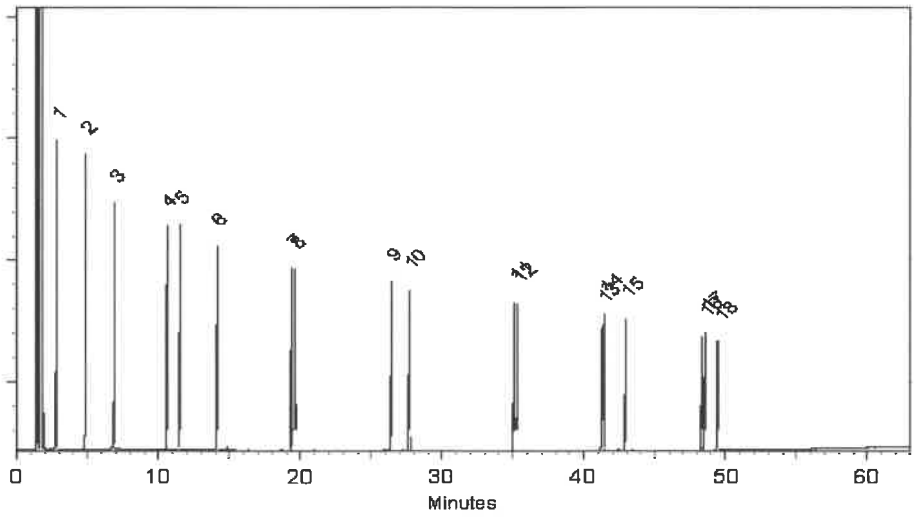
Inj. Temp:
250°C

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.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

W3153
TB
Opyte. 11/25/2024
TB

Certificate of Analysis

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

W3147

W3147 update. 02/03/2025 JP

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

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

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-Clay-CF01-01	HL_Pile	TAL VOCs	Soil	2/24/2025	09:40	9	5 gram Encore	4 C	Y
	P001-Clay-CF01-01	HL_Pile	Percent Moisture	Soil	2/24/2025	09:40	1	4 oz glass w/ septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	EPH	Soil	2/24/2025	09:40	2	4 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:40	8	40 mL Amber Vial W/ Septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP EPH	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@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 SAMPLES All ANALYSES	WESTON SOLUTIONS	2/24/25 1900		2-24-25 1425	4.9°C IR Gun #1
					Temp Blk present
					custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

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-Clay-CF01-02	HL_Pile	TAL VOCs	Soil	2/24/2025	09:50	3	5 gram Encore	4 C	N
	P001-Clay-CF01-02	HL_Pile	Percent Moisture	Soil	2/24/2025	09:50	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	EPH	Soil	2/24/2025	09:50	1	4 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:50	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP EPH	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@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 SAMPLES ALL ANALYSES	WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9°C Jill Ayers #1 Temp blk. present custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

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-Clay-CF02-01	HL_Pile	TAL VOCs	Soil	2/24/2025	10:00	3	5 gram Encore	4 C	N
	P001-Clay-CF02-01	HL_Pile	Percent Moisture	Soil	2/24/2025	10:00	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	EPH	Soil	2/24/2025	10:00	1	4 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	10:00	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP EPH	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@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 SAMPLES ALL ANALYSES	WESTON SAMPLERS	2/24/25 1500		2-24-25 1425	4.9°C IR Gun #1 Temp blk. present custody seals intact

From: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Sent: Tuesday, February 25, 2025 9:30 AM
To: Jordan@chemtech.net
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835
Attachments: RFP#905-corrected COC.pdf

Jordan – Attached please find corrected COC with RFP# 905 and use the SW 846 Methods. Contact me with any questions.

Thanks,
Smita

From: Jordan Hedvat <Jordan@chemtech.net>
Sent: Monday, February 24, 2025 5:32 PM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Thanks, the COC did not mention specific Methods so we are running by standard SW-846. If CLP Methods required for these samples received today please let us know. COC is attached (# Q1421)

Regards,
Jordan

Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sumbaly, Smita [mailto:S.Sumbaly@WestonSolutions.com]
Sent: Monday, February 24, 2025 5:28 PM
To: Jordan@chemtech.net
Subject: Re: Site # 51835

Rfp#905

Sent from my iPhone

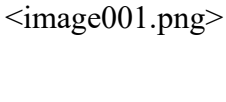
On Feb 24, 2025, at 4:36 PM, Jordan Hedvat <Jordan@chemtech.net> wrote:

*** External Message *** -- PROBE message before clicking links or opening attachments.

Good afternoon Smita,

We received project with COC titled “Site # 51835.” Please confirm for which RFP # project this falls under so we may include the correct pricing provided at the time of bid? Thank you

Regards,
Jordan



Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

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

QA Control Code: A2070148

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1421 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 2/24/2025 2:56:42 PM
Project Name : ~~51835~~ RFP 905
Receive DateTime : 2/24/2025 2:25:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1421-01	P001-CLAY-CF01-01	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-02	Q1421-01MS	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-03	Q1421-01MSD	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-07	P001-CLAY-CF01-02	Solid	02/24/2025	09:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-09	P001-CLAY-CF02-01	Solid	02/24/2025	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By : _____
Date / Time : 2-24-25 15:40

Received By : _____
Date / Time : 2-24-25 15:40

Storage Area : **VOA Refridgerator Room**