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

GC SEMI-VOLATILES

PROJECT NAME : RFP 916

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q3176

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3176

Project ID : RFP 916

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q3176-01	EME-TS12-01
Q3176-02	EME-TS13-01
Q3176-03	EME-TS14-02

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

Signature : _____

Date: 10/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 916
Project # N/A
Order ID # Q3176
Test Name: EPH

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 09/23/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

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

F. Calculation for Concentration in Soil Samples:

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

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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.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3176 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.			✓
4.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
5.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS recoveries met the requirements for all compounds. The MSD recoveries met the requirements for all compounds. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds. The RPD were met for all analysis.			✓
7.	Retention Time Shift Meet Criteria (if applicable) Comments:			✓
8.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓
9.	Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3176

	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: SHREENA PATEL **Date:** 10/02/2025

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LAB CHRONICLE

OrderID:	Q3176	**OrderDate:**	9/24/2025 10:16:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 916
Contact:	Smita Sumbaly	**Location:**	J43,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3176-01	**EME-TS12-01**	**SOIL**			**09/23/25**			**09/23/25**
			PCB	8082A		09/25/25	09/25/25	
			Pesticide-TCL	8081B		09/25/25	09/30/25	
			EPH	NJEPH		09/25/25	09/25/25	
Q3176-02	**EME-TS13-01**	**SOIL**			**09/23/25**			**09/23/25**
			PCB	8082A		09/25/25	09/26/25	
			Pesticide-TCL	8081B		09/25/25	09/30/25	
			EPH	NJEPH		09/25/25	09/25/25	
			EPH	NJEPH		09/25/25	09/26/25	
Q3176-03	**EME-TS14-02**	**SOIL**			**09/23/25**			**09/23/25**
			PCB	8082A		09/25/25	09/26/25	
			Pesticide-TCL	8081B		09/25/25	09/30/25	
			EPH	NJEPH		09/25/25	09/25/25	
			EPH	NJEPH		09/25/25	09/26/25	

QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3176

Run Number: FC092625AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB169823BL	54			0
PB169823BS	78			0
PB169823BSD	80			0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3176

Run Number: FD092625AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EME-TS14-01MS	84	66	67	0
EME-TS14-01MSD	84	67	67	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3176

Run Number: FD100125AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB169823BL	88	89	98	0
PB169823BS	77	76	86	0
PB169823BSD	79	78	89	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3176

Run Number: FF092525AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EME-TS12-01	86	85	49	0
EME-TS13-01	91	86	60	0
EME-TS14-02	102	88	74	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3176

Run Number: FG092525AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EME-TS12-01	91			0
EME-TS13-01	87			0
EME-TS14-02	107			0
EME-TS14-01MS	92			0
EME-TS14-01MSD	93			0

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

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

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : Q3178-02 **Datafile:** FD049768.D **Client ID :** EME-TS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	9.3	0.49	8.98	91		(40-140)
Aromatic C12-C16	14.0	2.39	15.5	94		(40-140)
Aromatic C16-C21	23.3	3.83	34.3	130		(40-140)
Aromatic C21-C36	37.3	4.20	53.0	130		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : Q3178-03 **Datafile:** FD049769.D **Client ID :** EME-TS

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	9.3	0.49	9.06	92		0.88 |	(40-140)	50
Aromatic C12-C16	14.0	2.39	15.5	94		0.11 |	(40-140)	50
Aromatic C16-C21	23.3	3.83	34.4	131		0.77 |	(40-140)	50
Aromatic C21-C36	37.3	4.20	53.0	130		0 |	(40-140)	50

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : Q3178-02 **Datafile:** FG016660.D **Client ID :** EME-T

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	14.0	0.32	14.8	103		(40-140)
Aliphatic C12-C16	9.3	1.39	12.5	119		(40-140)
Aliphatic C16-C21	14.0	4.12	13.9	70		(40-140)
Aliphatic C21-C28	18.6	0	17.0	91		(40-140)
Aliphatic C28-C40	28.0	26.6	43.9	62		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : Q3178-03 **Datafile:** FG016661.D **Client ID :** EME-TS

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	14.0	0.32	14.7	102		0.98 |	(40-140)	50
Aliphatic C12-C16	9.3	1.39	12.3	116		2.55 |	(40-140)	50
Aliphatic C16-C21	14.0	4.12	13.6	68		3.2 |	(40-140)	50
Aliphatic C21-C28	18.7	0	16.7	90		1.88 |	(40-140)	50
Aliphatic C28-C40	28.0	26.6	43.5	60		2.29 |	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : PB169823BS **Datafile:** FC069855.D **Client ID :** PB169823BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	10	5.20	52		(40-140)
Aliphatic C12-C16	6.7	4.49	67		(40-140)
Aliphatic C16-C21	10	7.34	74		(40-140)
Aliphatic C21-C28	13.3	9.80	74		(40-140)
Aliphatic C28-C40	20.0	16.1	81		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : PB169823BSD **Datafile:** FC069856.D **Client ID :** PB169823BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	10	5.08	51		2.5|	(40-140)	25
Aliphatic C12-C16	6.7	4.42	66		1.6|	(40-140)	25
Aliphatic C16-C21	10	7.44	74		1.3|	(40-140)	25
Aliphatic C21-C28	13.3	10.2	77		3.9|	(40-140)	25
Aliphatic C28-C40	20.0	16.7	84		3.6|	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : PB169823BS **Datafile:** FD049784.D **Client ID :** PB169823BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	6.7	4.45	67		(40-140)
Aromatic C12-C16	10	7.22	72		(40-140)
Aromatic C16-C21	16.7	14.6	88		(40-140)
Aromatic C21-C36	26.6	24.7	93		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

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

Lab Code: ACE **SDG No:** Q3176

Sample No : PB169823BSD **Datafile:** FD049786.D **Client ID :** PB169823BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS (%)	QC Limit Of RPD
Aromatic C10-C12	6.7	4.55	68		2.2|	(40-140)	25
Aromatic C12-C16	10	7.39	74		2.3|	(40-140)	25
Aromatic C16-C21	16.7	15.1	91		3.3|	(40-140)	25
Aromatic C21-C36	26.6	25.4	95		2.8|	(40-140)	25

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4B

METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PB169823BL

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3176

Instrument ID: FID_C Lab Sample ID: PB169823BL

Matrix: (soil/water) Solid Date Extracted: 9/25/2025 8:15:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169823BS	PB169823BS
PB169823BSD	PB169823BSD
EME-TS12-01	Q3176-01
EME-TS13-01	Q3176-02
EME-TS14-02	Q3176-03

COMMENTS:

Form IV

SAMPLE DATA

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3176
Lab Sample ID:	Q3176-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	66.1
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
09/25/25 08:15	09/25/25 18:22	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.55	J	1	0.21	1.51	mg/kg	FG016653.D
Aliphatic C12-C16	Aliphatic C12-C16	2.05		1	0.17	1.01	mg/kg	FG016653.D
Aliphatic C16-C21	Aliphatic C16-C21	0.78	J	1	0.20	1.51	mg/kg	FG016653.D
Aliphatic C21-C28	Aliphatic C21-C28	1.95	J	1	0.80	2.01	mg/kg	FG016653.D
Aliphatic C28-C40	Aliphatic C28-C40	45.4		1	1.78	3.02	mg/kg	FG016653.D
Aromatic C10-C12	Aromatic C10-C12	0.31	J	1	0.18	1.01	mg/kg	FF016454.D
Aromatic C12-C16	Aromatic C12-C16	3.22		1	0.35	1.51	mg/kg	FF016454.D
Aromatic C16-C21	Aromatic C16-C21	3.22		1	0.60	2.52	mg/kg	FF016454.D
Aromatic C21-C36	Aromatic C21-C36	5.63		1	1.80	4.03	mg/kg	FF016454.D
Total AliphaticEPH	Total AliphaticEPH	50.7			3.15	9.06	mg/kg	
Total AromaticEPH	Total AromaticEPH	12.4			2.93	9.07	mg/kg	
Total EPH	Total EPH	63.1			6.08	18.1	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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3176
Lab Sample ID:	Q3176-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	66.1
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
FF016454.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.31	J	0.18	1.01	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.22		0.35	1.51	mg/kg
Aromatic C16-C21	Aromatic C16-C21	3.22		0.60	2.52	mg/kg
Aromatic C21-C36	Aromatic C21-C36	5.63		1.80	4.03	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.9		40 - 140	86%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.4		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.7		40 - 140	49%	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:	Q3176-01	Acq On:	25 Sep 2025 16:52
Client Sample ID:	EME-TS12-01	Operator:	YP\AJ
Data file:	FF016454.D	Misc:	
Instrument:	FID_F	ALS Vial:	83
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.398	438274	3.058	200	ug/ml
Aromatic C12-C16	6.399	9.102	4646201	32.002	300	ug/ml
Aromatic C16-C21	9.103	13.422	4605574	31.945	500	ug/ml
Aromatic C21-C36	13.423	18.876	7316564	55.922	800	ug/ml
Aromatic EPH	4.521	18.876	17006613	122.927		ug/ml
ortho-Terphenyl (SURR)	11.979	11.979	3772102	24.74		ug/ml
2-Bromonaphthalene (SURR)	8.034	8.034	5378435	42.94		ug/ml
2-Flurobiphenyl (SURR)	8.912	8.912	3575060	42.39		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016454.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 16:52
Operator : YP\AJ
Sample : Q3176-01
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Sep 26 02:44:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 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...	8.034	5378435	42.936 ug/ml
Spiked Amount 50.000		Recovery =	85.87%
6) S 2-Flurobiphenyl (SURR)	8.912	3575060	42.389 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	84.78%
11) S ortho-Terphenyl (SURR)	11.979	3772102	24.743 ug/ml
Spiked Amount 50.000		Recovery =	49.49%
Target Compounds			

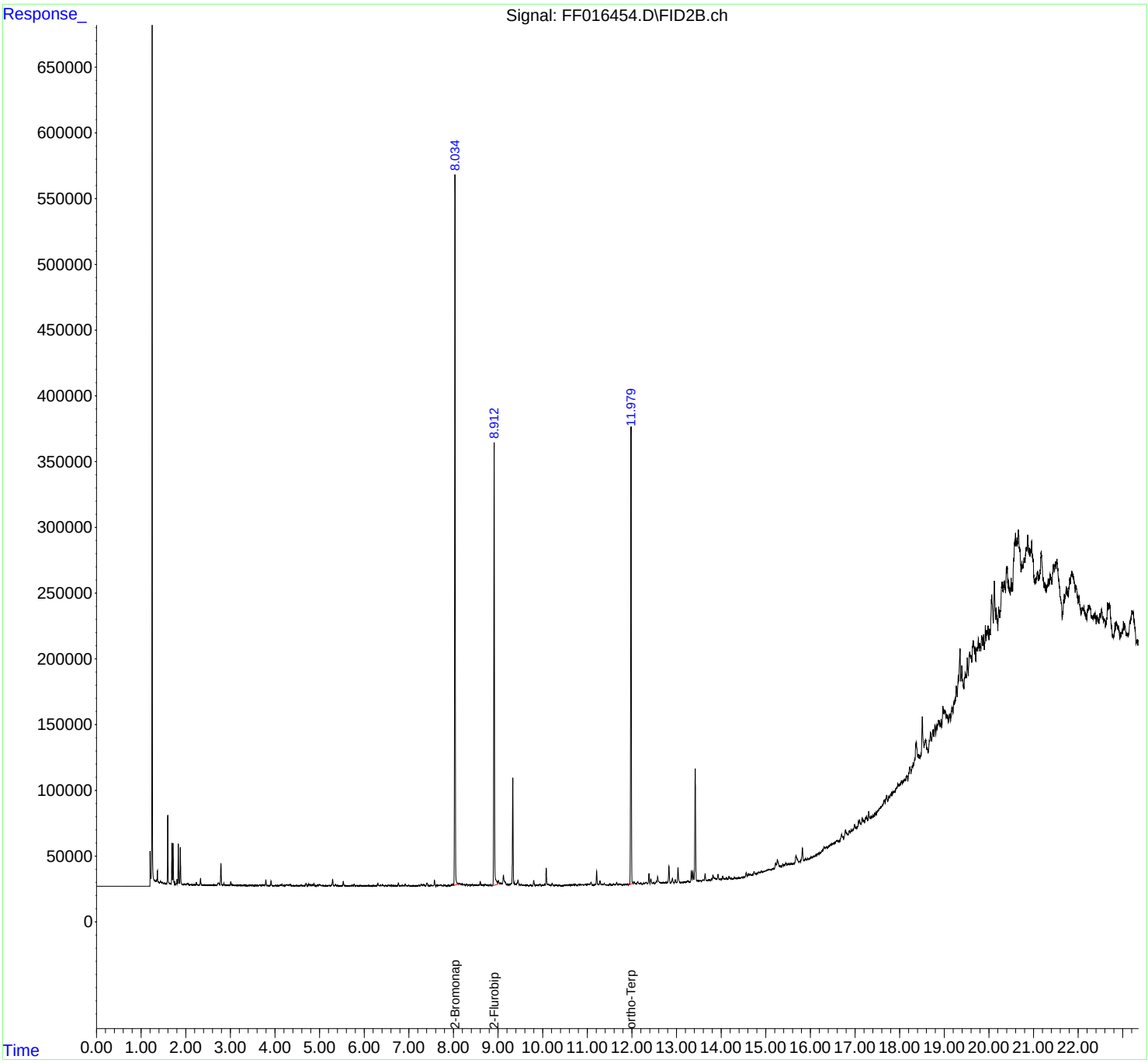
(f)=RT Delta > 1/2 Window (m)=manual int.

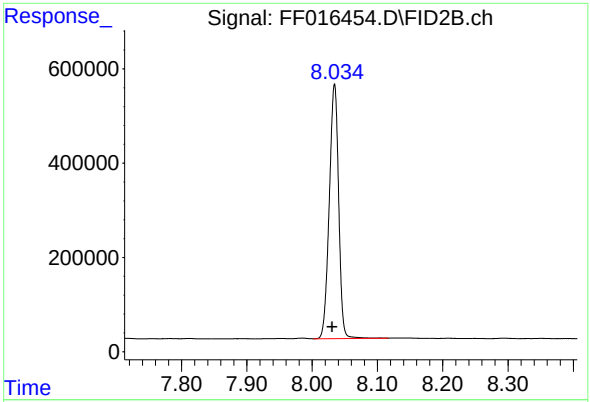
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016454.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 16:52
Operator : YP\AJ
Sample : Q3176-01
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Sep 26 02:44:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

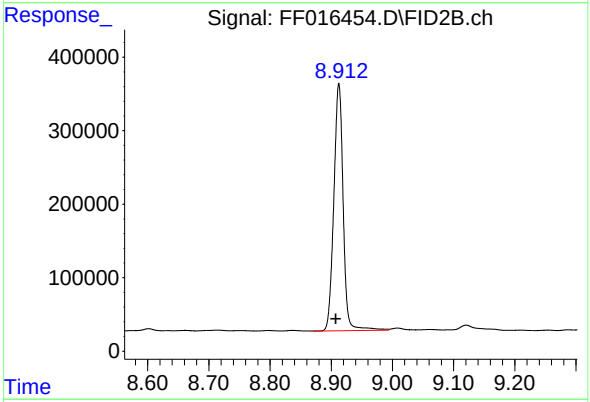




#4 2-Bromonaphthalene (SURR)

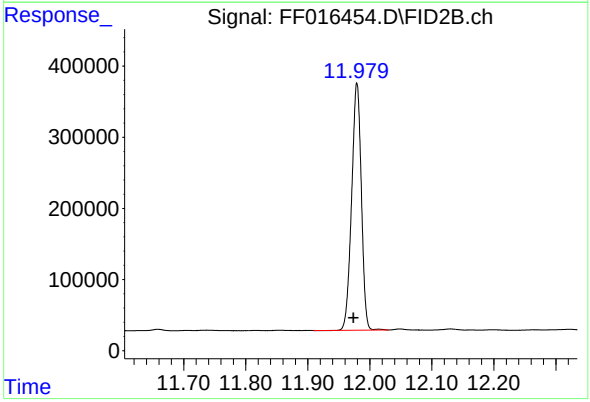
R.T.: 8.034 min
Delta R.T.: 0.004 min
Response: 5378435
Conc: 42.94 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS12-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.912 min
Delta R.T.: 0.005 min
Response: 3575060
Conc: 42.39 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.979 min
Delta R.T.: 0.006 min
Response: 3772102
Conc: 24.74 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016454.D
Signal(s) : FID2B.ch
Acq On : 25 Sep 2025 16:52
Sample : Q3176-01
Misc :
ALS Vial : 83 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.471	4.447	4.487	PV	333	3468	0.06%	0.013%
2	4.494	4.487	4.520	VV	225	2782	0.05%	0.011%
3	4.525	4.520	4.552	VV	115	1072	0.02%	0.004%
4	4.587	4.552	4.612	PV	889	10833	0.20%	0.041%
5	4.623	4.612	4.646	VV	295	3151	0.06%	0.012%
6	4.662	4.646	4.673	VV	114	1236	0.02%	0.005%
7	4.696	4.673	4.732	VV	1991	23490	0.43%	0.090%
8	4.749	4.732	4.764	VV	1610	16051	0.30%	0.061%
9	4.776	4.764	4.792	VV	1477	15889	0.29%	0.061%
10	4.806	4.792	4.822	VV	919	9385	0.17%	0.036%
11	4.839	4.822	4.855	VV	1102	11733	0.22%	0.045%
12	4.873	4.855	4.896	VV	1964	19929	0.37%	0.076%
13	4.950	4.922	4.977	VV	616	9686	0.18%	0.037%
14	5.005	4.977	5.042	VV	1106	20705	0.38%	0.079%
15	5.061	5.042	5.068	VV	307	3277	0.06%	0.012%
16	5.081	5.068	5.119	VV	360	6299	0.12%	0.024%
17	5.140	5.119	5.177	VV	252	3417	0.06%	0.013%
18	5.204	5.177	5.240	VV	502	8627	0.16%	0.033%
19	5.267	5.240	5.274	VV	684	7722	0.14%	0.029%
20	5.293	5.274	5.327	VV	5025	59412	1.10%	0.227%
21	5.354	5.327	5.374	VV	1112	14650	0.27%	0.056%
22	5.385	5.374	5.402	VV	348	3833	0.07%	0.015%
23	5.407	5.402	5.460	VV	275	2814	0.05%	0.011%
24	5.467	5.460	5.487	PV	76	1055	0.02%	0.004%
25	5.504	5.487	5.511	VV	323	2981	0.05%	0.011%

rteres

26	5.531	5.511	5.595	VV	3507	42974	0.79%	0.164%
27	5.604	5.595	5.652	VV	216	4342	0.08%	0.017%
28	5.676	5.652	5.680	VV	180	2048	0.04%	0.008%
29	5.695	5.680	5.712	VV	302	4004	0.07%	0.015%
30	5.731	5.712	5.758	VV	542	9782	0.18%	0.037%
31	5.776	5.758	5.797	VV	1563	17465	0.32%	0.067%
32	5.811	5.797	5.821	VV	232	2433	0.04%	0.009%
33	5.836	5.821	5.866	VV	448	4949	0.09%	0.019%
34	5.890	5.866	5.905	PV	464	5611	0.10%	0.021%
35	5.924	5.905	5.961	VV	374	7171	0.13%	0.027%
36	5.989	5.961	6.008	VV	425	6124	0.11%	0.023%
37	6.043	6.008	6.060	VV	339	5564	0.10%	0.021%
38	6.087	6.067	6.092	VV	313	3562	0.07%	0.014%
39	6.095	6.092	6.124	VV	291	3416	0.06%	0.013%
40	6.137	6.124	6.152	VV	145	1736	0.03%	0.007%
41	6.174	6.152	6.192	VV	550	4230	0.08%	0.016%
42	6.213	6.192	6.232	VV	754	9127	0.17%	0.035%
43	6.250	6.232	6.255	VV	269	2892	0.05%	0.011%
44	6.266	6.255	6.280	VV	276	3285	0.06%	0.013%
45	6.304	6.280	6.346	VV	2099	31178	0.58%	0.119%
46	6.366	6.346	6.387	VV	626	9134	0.17%	0.035%
47	6.411	6.387	6.447	VV	1140	15751	0.29%	0.060%
48	6.476	6.457	6.517	VV	711	12121	0.22%	0.046%
49	6.550	6.517	6.585	VV	540	14018	0.26%	0.053%
50	6.603	6.585	6.627	VV	745	10779	0.20%	0.041%
51	6.647	6.627	6.668	VV	306	5149	0.09%	0.020%
52	6.691	6.677	6.724	VV	238	4697	0.09%	0.018%
53	6.733	6.724	6.740	VV	231	1833	0.03%	0.007%
54	6.767	6.740	6.794	VV	2474	29232	0.54%	0.112%
55	6.813	6.794	6.819	VV	280	3283	0.06%	0.013%
56	6.825	6.819	6.835	VV	318	2376	0.04%	0.009%
57	6.853	6.835	6.875	VV	994	12522	0.23%	0.048%
58	6.891	6.875	6.904	VV	575	6544	0.12%	0.025%
59	6.921	6.904	6.943	VV	1818	20484	0.38%	0.078%
60	6.956	6.943	6.976	VV	487	5213	0.10%	0.020%
61	6.996	6.976	7.020	PV	993	10221	0.19%	0.039%
62	7.054	7.044	7.070	VV	191	1885	0.03%	0.007%
63	7.097	7.070	7.137	PV	355	7184	0.13%	0.027%
64	7.150	7.137	7.161	VV	282	2549	0.05%	0.010%
65	7.174	7.161	7.195	VV	237	3074	0.06%	0.012%
66	7.224	7.195	7.249	VV	1059	14850	0.27%	0.057%
67	7.278	7.249	7.295	VV	1452	21656	0.40%	0.083%
68	7.303	7.295	7.314	VV	840	8000	0.15%	0.031%
69	7.341	7.314	7.372	VV	1148	24944	0.46%	0.095%

rteres

70	7.406	7.372	7.435	VV	2302	37561	0.69%	0.143%
71	7.447	7.435	7.474	VV	395	5672	0.10%	0.022%
72	7.492	7.474	7.506	VV	709	8777	0.16%	0.033%
73	7.517	7.506	7.529	VV	492	5331	0.10%	0.020%
74	7.541	7.529	7.552	VV	459	4697	0.09%	0.018%
75	7.574	7.552	7.607	VV	4407	52481	0.97%	0.200%
76	7.634	7.607	7.644	VV	686	9536	0.18%	0.036%
77	7.657	7.644	7.670	VV	598	7559	0.14%	0.029%
78	7.683	7.670	7.696	VV	867	9141	0.17%	0.035%
79	7.717	7.696	7.740	VV	1197	16928	0.31%	0.065%
80	7.752	7.740	7.769	VV	421	5439	0.10%	0.021%
81	7.783	7.769	7.798	VV	729	9356	0.17%	0.036%
82	7.811	7.798	7.832	VV	888	10099	0.19%	0.039%
83	7.852	7.832	7.867	VV	265	4451	0.08%	0.017%
84	7.895	7.867	7.914	VV	466	8995	0.17%	0.034%
85	7.953	7.914	7.967	VV	958	16581	0.31%	0.063%
86	7.985	7.967	8.002	VV	1727	20482	0.38%	0.078%
87	8.034	8.002	8.095	VV	540353	5421252	100.00%	20.679%
88	8.104	8.095	8.117	VV	2007	24686	0.46%	0.094%
89	8.131	8.117	8.140	VV	1973	24551	0.45%	0.094%
90	8.145	8.140	8.170	VV	1807	28162	0.52%	0.107%
91	8.176	8.170	8.193	VV	1283	16140	0.30%	0.062%
92	8.209	8.193	8.231	VV	1504	25589	0.47%	0.098%
93	8.249	8.231	8.270	VV	1017	19392	0.36%	0.074%
94	8.294	8.270	8.321	VV	1609	29490	0.54%	0.112%
95	8.330	8.321	8.336	VV	696	6078	0.11%	0.023%
96	8.351	8.336	8.377	VV	1137	19569	0.36%	0.075%
97	8.387	8.377	8.394	VV	739	6700	0.12%	0.026%
98	8.395	8.394	8.405	VV	702	4246	0.08%	0.016%
99	8.422	8.405	8.442	VV	1223	17818	0.33%	0.068%
100	8.467	8.442	8.485	VV	762	15282	0.28%	0.058%
101	8.503	8.485	8.535	VV	742	18722	0.35%	0.071%
102	8.551	8.535	8.561	VV	663	8573	0.16%	0.033%
103	8.601	8.561	8.625	VV	3370	54257	1.00%	0.207%
104	8.633	8.625	8.640	VV	716	6031	0.11%	0.023%
105	8.661	8.640	8.680	VV	1079	17345	0.32%	0.066%
106	8.714	8.680	8.735	VV	1435	30494	0.56%	0.116%
107	8.753	8.735	8.776	VV	813	14514	0.27%	0.055%
108	8.798	8.776	8.818	VV	879	13415	0.25%	0.051%
109	8.837	8.818	8.867	VV	1002	16262	0.30%	0.062%
110	8.913	8.867	8.994	VV	337058	3629978	66.96%	13.846%
111	9.009	8.994	9.038	VV	4242	76066	1.40%	0.290%
112	9.063	9.038	9.082	VV	2279	51390	0.95%	0.196%

rteres

113	9.121	9.082	9.189	VV	8194	217967	4.02%	0.831%
114	9.210	9.189	9.234	VV	1354	30366	0.56%	0.116%
115	9.253	9.234	9.270	VV	1352	23627	0.44%	0.090%
116	9.287	9.270	9.299	VV	1864	25276	0.47%	0.096%
117	9.330	9.299	9.359	VV	82045	877435	16.19%	3.347%
118	9.366	9.359	9.379	VV	2341	23234	0.43%	0.089%
119	9.384	9.379	9.399	VV	1415	15665	0.29%	0.060%
120	9.447	9.399	9.473	VV	4447	100171	1.85%	0.382%
121	9.480	9.473	9.501	VV	1243	15318	0.28%	0.058%
122	9.521	9.501	9.545	VV	1559	22144	0.41%	0.084%
123	9.569	9.545	9.587	VV	694	11489	0.21%	0.044%
124	9.617	9.587	9.636	VV	892	16576	0.31%	0.063%
125	9.650	9.636	9.692	VV	813	14573	0.27%	0.056%
126	9.718	9.692	9.725	VV	775	8716	0.16%	0.033%
127	9.732	9.725	9.774	VV	641	9656	0.18%	0.037%
128	9.800	9.774	9.840	VV	4078	56800	1.05%	0.217%
129	9.875	9.840	9.911	VV	756	17440	0.32%	0.067%
130	9.932	9.911	9.969	VV	1432	26191	0.48%	0.100%
131	10.014	9.969	10.028	VV	482	12621	0.23%	0.048%
132	10.047	10.028	10.059	VV	1337	15675	0.29%	0.060%
133	10.079	10.059	10.114	VV	13381	159462	2.94%	0.608%
134	10.130	10.114	10.189	VV	1289	31124	0.57%	0.119%
135	10.212	10.189	10.257	VV	2088	34053	0.63%	0.130%
136	10.287	10.257	10.329	VV	624	17193	0.32%	0.066%
137	10.337	10.329	10.348	VV	270	2481	0.05%	0.009%
138	10.368	10.348	10.373	VV	405	4120	0.08%	0.016%
139	10.380	10.373	10.411	VV	397	4496	0.08%	0.017%
140	10.440	10.411	10.452	PV	185	1704	0.03%	0.006%
141	10.494	10.452	10.508	VV	542	7697	0.14%	0.029%
142	10.537	10.508	10.570	VV	710	15983	0.29%	0.061%
143	10.608	10.570	10.624	VV	827	17078	0.32%	0.065%
144	10.641	10.624	10.665	VV	879	15505	0.29%	0.059%
145	10.688	10.665	10.710	VV	822	15142	0.28%	0.058%
146	10.730	10.710	10.755	VV	1096	16523	0.30%	0.063%
147	10.767	10.755	10.780	VV	285	2789	0.05%	0.011%
148	10.814	10.780	10.827	VV	842	15859	0.29%	0.060%
149	10.853	10.827	10.871	VV	742	15860	0.29%	0.060%
150	10.902	10.871	10.919	VV	905	18424	0.34%	0.070%
151	10.932	10.919	10.936	VV	606	5610	0.10%	0.021%
152	10.953	10.936	10.963	VV	977	12169	0.22%	0.046%
153	10.969	10.963	10.988	VV	766	8089	0.15%	0.031%
154	11.011	10.988	11.025	VV	1279	17205	0.32%	0.066%
155	11.042	11.025	11.058	VV	1072	18187	0.34%	0.069%

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156	11.083	11.058	11.130	VV	2602	47802	0.88%	0.182%
157	11.146	11.130	11.156	VV	430	4908	0.09%	0.019%
158	11.177	11.156	11.186	VV	739	9139	0.17%	0.035%
159	11.209	11.186	11.254	VV	10724	132142	2.44%	0.504%
160	11.284	11.254	11.310	VV	3418	51235	0.95%	0.195%
161	11.315	11.310	11.339	VV	608	8666	0.16%	0.033%
162	11.354	11.339	11.360	VV	575	6540	0.12%	0.025%
163	11.381	11.360	11.402	VV	1259	19261	0.36%	0.073%
164	11.409	11.402	11.444	VV	433	5748	0.11%	0.022%
165	11.453	11.444	11.471	VV	216	2371	0.04%	0.009%
166	11.506	11.480	11.557	VV	743	13772	0.25%	0.053%
167	11.590	11.557	11.615	PV	962	13459	0.25%	0.051%
168	11.633	11.615	11.638	VV	348	3274	0.06%	0.012%
169	11.658	11.638	11.687	VV	2066	25329	0.47%	0.097%
170	11.706	11.687	11.715	PV	451	4664	0.09%	0.018%
171	11.737	11.715	11.800	VV	751	15036	0.28%	0.057%
172	11.817	11.800	11.835	VV	345	3793	0.07%	0.014%
173	11.855	11.835	11.877	VV	553	8032	0.15%	0.031%
174	11.900	11.877	11.925	VV	277	4208	0.08%	0.016%
175	11.979	11.925	12.006	PV	348571	3781788	69.76%	14.426%
176	12.015	12.006	12.031	VV	1888	21437	0.40%	0.082%
177	12.048	12.031	12.094	VV	2155	41126	0.76%	0.157%
178	12.130	12.094	12.154	VV	2139	40597	0.75%	0.155%
179	12.165	12.154	12.178	VV	610	7118	0.13%	0.027%
180	12.198	12.178	12.234	VV	827	15172	0.28%	0.058%
181	12.267	12.234	12.278	VV	670	10851	0.20%	0.041%
182	12.321	12.278	12.350	VV	1341	32951	0.61%	0.126%
183	12.382	12.350	12.404	VV	7907	99173	1.83%	0.378%
184	12.425	12.404	12.453	VV	3757	55534	1.02%	0.212%
185	12.488	12.453	12.512	VV	864	17213	0.32%	0.066%
186	12.552	12.512	12.563	VV	1767	31417	0.58%	0.120%
187	12.577	12.563	12.673	VV	5312	101359	1.87%	0.387%
188	12.693	12.673	12.718	VV	655	12695	0.23%	0.048%
189	12.742	12.718	12.755	VV	602	10230	0.19%	0.039%
190	12.764	12.755	12.787	VV	613	9657	0.18%	0.037%
191	12.830	12.787	12.860	VV	12918	176904	3.26%	0.675%
192	12.908	12.860	12.943	VV	3458	59413	1.10%	0.227%
193	12.972	12.943	12.996	VV	2544	34708	0.64%	0.132%
194	13.001	12.996	13.004	VV	288	1308	0.02%	0.005%
195	13.034	13.004	13.080	VV	11622	152203	2.81%	0.581%
196	13.090	13.080	13.107	PV	139	1268	0.02%	0.005%
197	13.128	13.107	13.144	VV	135	1846	0.03%	0.007%
198	13.165	13.144	13.182	PV	429	3984	0.07%	0.015%
199	13.197	13.182	13.208	VV	185	2073	0.04%	0.008%

200	13.251	13.208	13.287	VV	1125	23250	0.43%	0.089%
201	13.300	13.287	13.308	VV	183	1616	0.03%	0.006%
202	13.333	13.308	13.350	VV	8564	99789	1.84%	0.381%
203	13.367	13.350	13.387	VV	7931	100361	1.85%	0.383%
204	13.419	13.387	13.452	VV	85799	1063249	19.61%	4.056%
205	13.467	13.452	13.489	VV	701	13115	0.24%	0.050%
206	13.507	13.489	13.527	VV	651	11010	0.20%	0.042%
207	13.537	13.527	13.562	VV	451	5898	0.11%	0.022%
208	13.596	13.562	13.604	VV	947	15894	0.29%	0.061%
209	13.608	13.604	13.616	VV	902	5903	0.11%	0.023%
210	13.640	13.616	13.682	VV	5361	75604	1.39%	0.288%
211	13.707	13.682	13.716	VV	625	9558	0.18%	0.036%
212	13.735	13.716	13.765	VV	615	13729	0.25%	0.052%
213	13.816	13.765	13.877	VV	4204	116218	2.14%	0.443%
214	13.881	13.877	13.897	VV	1316	12191	0.22%	0.047%
215	13.930	13.897	13.974	VV	4405	77477	1.43%	0.296%
216	13.990	13.974	14.006	VV	525	8067	0.15%	0.031%
217	14.035	14.006	14.059	VV	2749	42316	0.78%	0.161%
218	14.074	14.059	14.095	VV	845	13884	0.26%	0.053%
219	14.119	14.095	14.145	VV	1694	24426	0.45%	0.093%
220	14.175	14.145	14.194	PV	2362	31870	0.59%	0.122%
221	14.204	14.194	14.225	VV	905	12088	0.22%	0.046%
222	14.243	14.225	14.266	VV	609	8255	0.15%	0.031%
223	14.297	14.266	14.334	PV	1142	15618	0.29%	0.060%
224	14.346	14.334	14.361	VV	231	2184	0.04%	0.008%
225	14.397	14.361	14.403	PV	322	4722	0.09%	0.018%
226	14.421	14.403	14.441	VV	334	4688	0.09%	0.018%
227	14.466	14.441	14.479	VV	242	3592	0.07%	0.014%
228	14.508	14.479	14.525	PV	358	4122	0.08%	0.016%
229	14.560	14.525	14.585	PV	3113	42333	0.78%	0.161%
230	14.610	14.585	14.634	VV	2012	35501	0.65%	0.135%
231	14.644	14.634	14.687	VV	936	18831	0.35%	0.072%
232	14.736	14.687	14.763	VV	2401	35105	0.65%	0.134%
233	14.772	14.763	14.778	VV	243	1743	0.03%	0.007%
234	14.798	14.778	14.815	VV	538	6115	0.11%	0.023%
235	14.842	14.815	14.865	PV	1170	18419	0.34%	0.070%
236	14.906	14.865	14.926	VV	1261	24657	0.45%	0.094%
237	14.951	14.926	14.955	VV	535	6286	0.12%	0.024%
238	15.064	14.955	15.076	VV	932	43811	0.81%	0.167%
239	15.091	15.076	15.114	VV	873	14242	0.26%	0.054%
240	15.119	15.114	15.124	VV	349	1831	0.03%	0.007%
241	15.219	15.124	15.240	VV	4453	93543	1.73%	0.357%
242	15.259	15.240	15.307	VV	6809	150289	2.77%	0.573%

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243	15.325	15.307	15.339	VV	1076	17760	0.33%	0.068%
244	15.380	15.339	15.395	VV	1765	33240	0.61%	0.127%
245	15.412	15.395	15.421	VV	921	13277	0.24%	0.051%
246	15.449	15.421	15.478	VV	2371	47037	0.87%	0.179%
247	15.517	15.478	15.539	VV	963	29794	0.55%	0.114%
248	15.565	15.539	15.585	VV	687	13697	0.25%	0.052%
249	15.591	15.585	15.594	VV	291	1212	0.02%	0.005%
250	15.615	15.594	15.622	VV	217	3326	0.06%	0.013%
251	15.677	15.634	15.739	PV	5343	154056	2.84%	0.588%
252	15.766	15.739	15.774	VV	595	11207	0.21%	0.043%
253	15.821	15.774	15.847	VV	10246	164225	3.03%	0.626%
254	15.860	15.847	15.868	VV	449	5201	0.10%	0.020%
255	15.891	15.868	15.915	VV	1139	17782	0.33%	0.068%
256	15.938	15.915	15.950	PV	571	6860	0.13%	0.026%
257	15.956	15.950	15.964	VV	170	1087	0.02%	0.004%
258	16.019	15.964	16.029	PV	705	12355	0.23%	0.047%
259	16.071	16.029	16.092	VV	560	12340	0.23%	0.047%
260	16.180	16.092	16.196	PV	813	26645	0.49%	0.102%
261	16.215	16.196	16.231	VV	508	6384	0.12%	0.024%
262	16.307	16.231	16.333	PV	3334	85686	1.58%	0.327%
263	16.361	16.333	16.383	VV	2079	45176	0.83%	0.172%
264	16.457	16.383	16.470	VV	1889	67745	1.25%	0.258%
265	16.487	16.470	16.492	VV	1332	17907	0.33%	0.068%
266	16.517	16.492	16.529	VV	1460	27455	0.51%	0.105%
267	16.554	16.529	16.558	VV	1238	18907	0.35%	0.072%
268	16.592	16.558	16.618	VV	1850	48575	0.90%	0.185%
269	16.650	16.618	16.660	VV	466	13196	0.24%	0.050%
270	16.699	16.660	16.744	PV	4095	89980	1.66%	0.343%
271	16.785	16.744	16.805	VV	5426	93799	1.73%	0.358%
272	16.810	16.805	16.840	VV	2251	30437	0.56%	0.116%
273	16.843	16.840	16.851	VV	547	2268	0.04%	0.009%
274	16.870	16.851	16.895	VV	2579	42819	0.79%	0.163%
275	16.915	16.895	16.924	VV	2020	26198	0.48%	0.100%
276	16.950	16.924	16.957	VV	1972	29629	0.55%	0.113%
277	16.991	16.957	17.009	VV	4624	84165	1.55%	0.321%
278	17.020	17.009	17.028	VV	1390	15092	0.28%	0.058%
279	17.036	17.028	17.043	VV	1320	10368	0.19%	0.040%
280	17.079	17.043	17.087	VV	4422	61004	1.13%	0.233%
281	17.102	17.087	17.125	VV	5441	82844	1.53%	0.316%
282	17.161	17.125	17.193	VV	5227	125750	2.32%	0.480%
283	17.203	17.193	17.216	VV	2225	26924	0.50%	0.103%
284	17.243	17.216	17.250	VV	3462	53356	0.98%	0.204%
285	17.260	17.250	17.281	VV	4343	51435	0.95%	0.196%

286	17.307	17.281	17.328	VV	6813	96273	1.78%	0.367%
287	17.338	17.328	17.353	VV	1913	19229	0.35%	0.073%
288	17.367	17.353	17.387	VV	1194	13818	0.25%	0.053%
289	17.405	17.387	17.415	PV	1386	10945	0.20%	0.042%
290	17.445	17.415	17.461	VV	2209	26789	0.49%	0.102%
291	17.469	17.461	17.481	VV	1310	11555	0.21%	0.044%
292	17.502	17.481	17.508	PV	1817	18820	0.35%	0.072%
293	17.520	17.508	17.527	VV	1938	18058	0.33%	0.069%
294	17.552	17.527	17.556	VV	2214	33384	0.62%	0.127%
295	17.578	17.556	17.591	VV	2514	43234	0.80%	0.165%
296	17.612	17.591	17.620	VV	2483	34071	0.63%	0.130%
297	17.664	17.620	17.677	VV	4380	111646	2.06%	0.426%
298	17.708	17.677	17.731	VV	6354	124352	2.29%	0.474%
299	17.759	17.731	17.768	VV	3861	55166	1.02%	0.210%
300	17.774	17.768	17.779	VV	2629	16515	0.30%	0.063%
301	17.797	17.779	17.803	VV	4000	46061	0.85%	0.176%
302	17.817	17.803	17.826	VV	4863	50423	0.93%	0.192%
303	17.838	17.826	17.845	VV	4292	36516	0.67%	0.139%
304	17.860	17.845	17.865	VV	3536	37523	0.69%	0.143%
305	17.871	17.865	17.877	VV	3324	21731	0.40%	0.083%
306	17.887	17.877	17.894	VV	2955	26138	0.48%	0.100%
307	17.914	17.894	17.920	VV	4206	46954	0.87%	0.179%
308	17.928	17.920	17.936	VV	3870	34189	0.63%	0.130%
309	17.960	17.936	17.985	VV	6056	125733	2.32%	0.480%
310	17.998	17.985	18.003	VV	4295	40872	0.75%	0.156%
311	18.013	18.003	18.023	VV	4421	44948	0.83%	0.171%
312	18.039	18.023	18.044	VV	5426	55047	1.02%	0.210%
313	18.050	18.044	18.062	VV	4905	42556	0.78%	0.162%
314	18.069	18.062	18.075	VV	3502	22069	0.41%	0.084%
315	18.091	18.075	18.095	VV	3572	34666	0.64%	0.132%
316	18.110	18.095	18.128	VV	3940	62487	1.15%	0.238%
317	18.162	18.128	18.184	VV	4748	112580	2.08%	0.429%
318	18.206	18.184	18.210	PV	5176	46822	0.86%	0.179%
319	18.222	18.210	18.254	VV	8524	164043	3.03%	0.626%
320	18.284	18.254	18.291	VV	7196	112859	2.08%	0.430%
321	18.302	18.291	18.309	VV	7886	70795	1.31%	0.270%
322	18.338	18.309	18.343	VV	9247	146929	2.71%	0.560%
323	18.375	18.343	18.404	VV	20162	541227	9.98%	2.064%
324	18.417	18.404	18.434	VV	8900	142514	2.63%	0.544%
325	18.449	18.434	18.468	VV	6629	117911	2.17%	0.450%
326	18.477	18.468	18.482	VV	5976	45112	0.83%	0.172%
327	18.508	18.482	18.546	VV	33311	666112	12.29%	2.541%
328	18.577	18.546	18.607	VV	12206	360622	6.65%	1.376%
329	18.616	18.607	18.634	VV	3903	45496	0.84%	0.174%

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330	18.638	18.634	18.642	PV	789	2288	0.04%	0.009%
331	18.689	18.642	18.718	PV	11815	263697	4.86%	1.006%
332	18.752	18.718	18.765	VV	8737	160682	2.96%	0.613%
333	18.790	18.765	18.808	VV	9643	145034	2.68%	0.553%
334	18.829	18.808	18.840	PV	4889	56738	1.05%	0.216%

Sum of corrected areas: 26215902

Aromatic EPH 092425.M Fri Sep 26 03:59:47 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3176
Lab Sample ID:	Q3176-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	66.1
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
FG016653.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.55	J	0.21	1.51	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		2.05		0.17	1.01	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.78	J	0.20	1.51	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.95	J	0.80	2.01	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		45.4		1.78	3.02	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		45.5		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3176-01	Acq On:	25 Sep 2025 18:22
Client Sample ID:	EME-TS12-01	Operator:	YP\AJ
Data file:	FG016653.D	Misc:	
Instrument:	FID_G	ALS Vial:	36
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	630648	5.46	300	ug/ml
Aliphatic C12-C16	6.921	10.379	2458109	20.38	200	ug/ml
Aliphatic C16-C21	10.380	13.768	997835	7.718	300	ug/ml
Aliphatic C21-C28	13.769	17.453	2494795	19.364	400	ug/ml
Aliphatic C28-C40	17.454	22.488	45743806	451.037	600	ug/ml
Aliphatic EPH	3.279	22.488	52325193	503.959		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	5140031	45.54		ug/ml
Aliphatic C9-C28	3.279	17.453	6581387	52.922	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016653.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 18:22
Operator : YP\AJ
Sample : Q3176-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Sep 26 02:12:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.512	5140031	45.538 ug/ml
Spiked Amount 50.000		Recovery = 91.08%	
Target Compounds			

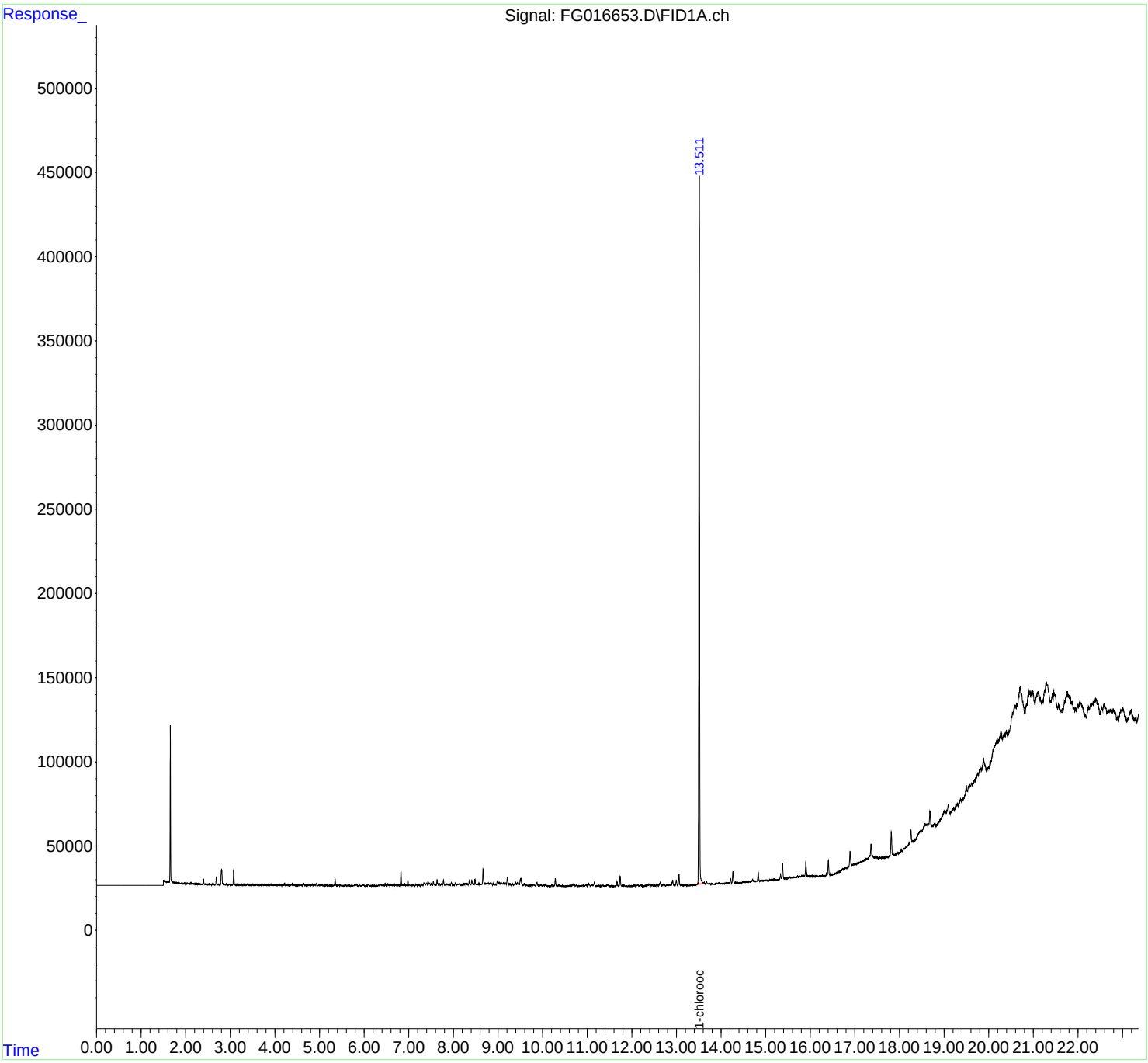
(f)=RT Delta > 1/2 Window (m)=manual int.

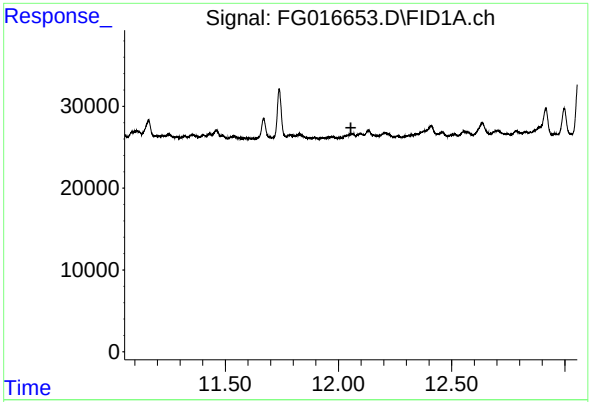
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016653.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 18:22
Operator : YP\AJ
Sample : Q3176-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EME-TS12-01

Integration File: autoint1.e
Quant Time: Sep 26 02:12:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

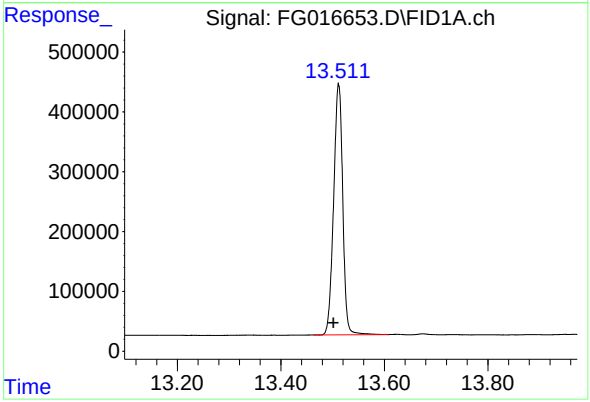




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
EME-TS12-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.010 min
Response: 5140031
Conc: 45.54 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016653.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 18:22
Sample : Q3176-01
Misc :
ALS Vial : 36 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.221	3.311	BV	75	1694	0.03%	0.003%
2	3.318	3.311	3.355	PV	60	462	0.01%	0.001%
3	3.384	3.355	3.455	VV	262	4105	0.08%	0.007%
4	3.464	3.455	3.480	VV	39	349	0.01%	0.001%
5	3.501	3.480	3.519	PV	125	2149	0.04%	0.004%
6	3.527	3.519	3.535	VV	121	680	0.01%	0.001%
7	3.597	3.535	3.611	VV	144	2959	0.06%	0.005%
8	3.630	3.611	3.651	VV	101	1555	0.03%	0.003%
9	3.683	3.651	3.692	VV	125	1742	0.03%	0.003%
10	3.741	3.692	3.765	VV	250	5980	0.11%	0.010%
11	3.777	3.765	3.812	VV	212	3247	0.06%	0.006%
12	3.837	3.812	3.882	VV	142	2980	0.06%	0.005%
13	3.914	3.882	3.945	VV	204	4250	0.08%	0.007%
14	3.975	3.945	4.053	VV	194	4859	0.09%	0.008%
15	4.069	4.053	4.088	VV	109	1590	0.03%	0.003%
16	4.111	4.088	4.145	VV	111	2339	0.04%	0.004%
17	4.182	4.145	4.201	VV	403	5545	0.11%	0.010%
18	4.216	4.201	4.275	VV	730	9995	0.19%	0.017%
19	4.292	4.275	4.334	VV	420	6234	0.12%	0.011%
20	4.388	4.334	4.488	VV	628	16183	0.31%	0.028%
21	4.509	4.488	4.521	VV	81	1282	0.02%	0.002%
22	4.555	4.521	4.602	VV	533	9413	0.18%	0.016%
23	4.644	4.602	4.671	VV	1205	15137	0.29%	0.026%
24	4.680	4.671	4.737	VV	155	3537	0.07%	0.006%
25	4.758	4.737	4.792	VV	499	8280	0.16%	0.014%
26	4.834	4.792	4.853	VV	968	12779	0.25%	0.022%
27	4.867	4.853	4.878	VV	292	2998	0.06%	0.005%
28	4.897	4.878	4.912	VV	770	8498	0.16%	0.015%
29	4.930	4.912	4.969	VV	1385	16121	0.31%	0.028%
30	4.983	4.969	4.997	VV	192	2436	0.05%	0.004%
31	5.010	4.997	5.048	VV	166	4097	0.08%	0.007%

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32	5.058	5.048	5.122	VV	275	6059	0.12%	0.010%
33	5.161	5.122	5.215	VV	304	6073	0.12%	0.011%
34	5.229	5.215	5.241	VV	99	1020	0.02%	0.002%
35	5.263	5.241	5.283	PV	325	4014	0.08%	0.007%
36	5.350	5.283	5.380	VV	3731	51775	0.99%	0.090%
37	5.410	5.380	5.450	VV	810	13302	0.26%	0.023%
38	5.467	5.450	5.510	VV	389	5731	0.11%	0.010%
39	5.523	5.510	5.548	PV	98	1176	0.02%	0.002%
40	5.568	5.548	5.583	VV	328	4854	0.09%	0.008%
41	5.593	5.583	5.614	VV	287	3699	0.07%	0.006%
42	5.632	5.614	5.649	VV	317	4042	0.08%	0.007%
43	5.665	5.649	5.680	VV	197	2358	0.05%	0.004%
44	5.696	5.680	5.717	VV	210	2780	0.05%	0.005%
45	5.729	5.717	5.767	VV	158	3569	0.07%	0.006%
46	5.790	5.767	5.818	VV	1016	18574	0.36%	0.032%
47	5.832	5.818	5.875	VV	1179	14089	0.27%	0.024%
48	5.893	5.875	5.928	VV	343	5483	0.11%	0.009%
49	5.977	5.928	6.031	VV	980	19550	0.38%	0.034%
50	6.056	6.031	6.072	VV	347	4850	0.09%	0.008%
51	6.098	6.072	6.138	VV	728	13446	0.26%	0.023%
52	6.158	6.138	6.175	VV	267	3695	0.07%	0.006%
53	6.182	6.175	6.187	VV	193	1375	0.03%	0.002%
54	6.201	6.187	6.240	VV	379	6973	0.13%	0.012%
55	6.272	6.240	6.292	PV	445	5762	0.11%	0.010%
56	6.324	6.292	6.344	VV	374	6921	0.13%	0.012%
57	6.374	6.344	6.401	VV	879	18145	0.35%	0.031%
58	6.423	6.401	6.446	VV	1090	15316	0.29%	0.027%
59	6.469	6.446	6.501	VV	1566	20486	0.39%	0.035%
60	6.533	6.501	6.578	VV	1338	25614	0.49%	0.044%
61	6.609	6.578	6.634	VV	512	13586	0.26%	0.024%
62	6.649	6.634	6.680	VV	645	10345	0.20%	0.018%
63	6.703	6.680	6.731	VV	665	13961	0.27%	0.024%
64	6.750	6.731	6.768	VV	557	9084	0.17%	0.016%
65	6.825	6.768	6.895	VV	8823	115843	2.22%	0.201%
66	6.914	6.895	6.937	VV	968	15317	0.29%	0.027%
67	6.950	6.937	6.960	VV	683	7518	0.14%	0.013%
68	6.980	6.960	7.008	VV	3558	45411	0.87%	0.079%
69	7.017	7.008	7.037	VV	848	10643	0.20%	0.018%
70	7.055	7.037	7.079	VV	1052	14181	0.27%	0.025%
71	7.103	7.079	7.133	VV	571	12893	0.25%	0.022%
72	7.159	7.133	7.188	VV	994	19082	0.37%	0.033%
73	7.197	7.188	7.209	VV	542	5425	0.10%	0.009%
74	7.228	7.209	7.256	VV	573	11947	0.23%	0.021%
75	7.284	7.256	7.318	VV	1146	22755	0.44%	0.039%
76	7.340	7.318	7.353	VV	1935	26931	0.52%	0.047%
77	7.361	7.353	7.378	VV	1535	19168	0.37%	0.033%
78	7.403	7.378	7.430	VV	1856	36250	0.70%	0.063%
79	7.467	7.430	7.489	VV	1726	42572	0.82%	0.074%

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80	7.507	7.489	7.528	VV	1447	20049	0.39%	0.035%
81	7.551	7.528	7.595	VV	2790	46936	0.90%	0.081%
82	7.634	7.595	7.669	VV	3771	66904	1.29%	0.116%
83	7.694	7.669	7.710	VV	1054	21363	0.41%	0.037%
84	7.741	7.710	7.757	VV	1360	31000	0.60%	0.054%
85	7.778	7.757	7.805	VV	3667	51591	0.99%	0.089%
86	7.841	7.805	7.857	VV	1067	26541	0.51%	0.046%
87	7.872	7.857	7.888	VV	1348	18606	0.36%	0.032%
88	7.903	7.888	7.927	VV	1068	22239	0.43%	0.039%
89	7.955	7.927	7.982	VV	1986	40506	0.78%	0.070%
90	7.995	7.982	8.019	VV	848	15733	0.30%	0.027%
91	8.045	8.019	8.064	VV	2035	32255	0.62%	0.056%
92	8.075	8.064	8.083	VV	940	9622	0.18%	0.017%
93	8.125	8.083	8.139	VV	1470	37096	0.71%	0.064%
94	8.151	8.139	8.186	VV	1058	25100	0.48%	0.043%
95	8.217	8.186	8.230	VV	1692	29414	0.56%	0.051%
96	8.243	8.230	8.255	VV	1679	22459	0.43%	0.039%
97	8.268	8.255	8.286	VV	1769	23411	0.45%	0.041%
98	8.311	8.286	8.331	VV	1842	31895	0.61%	0.055%
99	8.357	8.331	8.388	VV	3032	55388	1.06%	0.096%
100	8.414	8.388	8.443	VV	3494	61843	1.19%	0.107%
101	8.453	8.443	8.465	VV	1099	13304	0.26%	0.023%
102	8.485	8.465	8.508	VV	4201	56924	1.09%	0.099%
103	8.518	8.508	8.525	VV	1061	10438	0.20%	0.018%
104	8.537	8.525	8.554	VV	1154	18479	0.35%	0.032%
105	8.573	8.554	8.593	VV	1861	30444	0.58%	0.053%
106	8.612	8.593	8.628	VV	1157	23140	0.44%	0.040%
107	8.666	8.628	8.698	VV	10303	154423	2.97%	0.267%
108	8.714	8.698	8.747	VV	1952	46889	0.90%	0.081%
109	8.783	8.747	8.799	VV	1826	51063	0.98%	0.088%
110	8.817	8.799	8.845	VV	1776	40337	0.77%	0.070%
111	8.862	8.845	8.884	VV	1596	29117	0.56%	0.050%
112	8.903	8.884	8.932	VV	1514	32152	0.62%	0.056%
113	8.948	8.932	8.960	VV	1018	15817	0.30%	0.027%
114	8.986	8.960	9.011	VV	3183	62598	1.20%	0.108%
115	9.025	9.011	9.064	VV	2223	57746	1.11%	0.100%
116	9.087	9.064	9.105	VV	1715	38693	0.74%	0.067%
117	9.130	9.105	9.148	VV	2046	42604	0.82%	0.074%
118	9.163	9.148	9.179	VV	2005	31177	0.60%	0.054%
119	9.210	9.179	9.248	VV	5115	100750	1.94%	0.174%
120	9.264	9.248	9.307	VV	1437	38706	0.74%	0.067%
121	9.329	9.307	9.347	VV	1140	21136	0.41%	0.037%
122	9.394	9.347	9.415	VV	2558	59470	1.14%	0.103%
123	9.434	9.415	9.473	VV	2110	53266	1.02%	0.092%
124	9.513	9.473	9.562	VV	4363	116672	2.24%	0.202%
125	9.587	9.562	9.614	VV	1610	29566	0.57%	0.051%
126	9.637	9.614	9.669	VV	983	20889	0.40%	0.036%

127	9.721	9.669	9.731	VV	721	18306	0.35%	0.032%
128	9.740	9.731	9.752	VV	725	7546	0.14%	0.013%
129	9.758	9.752	9.771	VV	551	6037	0.12%	0.010%
130	9.802	9.771	9.844	VV	1044	29308	0.56%	0.051%
131	9.871	9.844	9.911	VV	2139	43235	0.83%	0.075%
132	9.923	9.911	9.935	VV	672	8144	0.16%	0.014%
133	9.961	9.935	9.988	VV	827	18656	0.36%	0.032%
134	10.009	9.988	10.048	VV	1248	23426	0.45%	0.041%
135	10.062	10.048	10.115	VV	1277	20155	0.39%	0.035%
136	10.123	10.115	10.138	VV	243	3391	0.07%	0.006%
137	10.149	10.138	10.180	VV	291	4627	0.09%	0.008%
138	10.204	10.180	10.260	VV	1091	22550	0.43%	0.039%
139	10.285	10.260	10.329	VV	4704	61395	1.18%	0.106%
140	10.358	10.329	10.481	VV	695	30806	0.59%	0.053%
141	10.503	10.481	10.535	PV	101	1653	0.03%	0.003%
142	10.539	10.535	10.544	VV	173	694	0.01%	0.001%
143	10.567	10.544	10.581	VV	471	5957	0.11%	0.010%
144	10.609	10.581	10.624	VV	677	11329	0.22%	0.020%
145	10.635	10.624	10.647	VV	467	5233	0.10%	0.009%
146	10.680	10.647	10.701	VV	1270	22876	0.44%	0.040%
147	10.723	10.701	10.743	VV	840	14540	0.28%	0.025%
148	10.767	10.743	10.789	VV	648	12595	0.24%	0.022%
149	10.797	10.789	10.810	VV	267	2795	0.05%	0.005%
150	10.838	10.810	10.865	VV	309	7547	0.14%	0.013%
151	10.892	10.865	10.906	VV	715	10605	0.20%	0.018%
152	10.927	10.906	10.945	VV	676	11768	0.23%	0.020%
153	10.974	10.945	10.995	VV	790	18271	0.35%	0.032%
154	11.030	10.995	11.067	VV	1693	34530	0.66%	0.060%
155	11.109	11.067	11.131	VV	960	27706	0.53%	0.048%
156	11.161	11.131	11.213	VV	2312	45548	0.87%	0.079%
157	11.226	11.213	11.238	VV	372	5079	0.10%	0.009%
158	11.251	11.238	11.278	VV	571	8599	0.17%	0.015%
159	11.286	11.278	11.303	VV	258	3203	0.06%	0.006%
160	11.319	11.303	11.332	VV	340	4225	0.08%	0.007%
161	11.353	11.332	11.388	VV	469	11070	0.21%	0.019%
162	11.402	11.388	11.418	VV	471	6498	0.12%	0.011%
163	11.430	11.418	11.440	VV	593	6573	0.13%	0.011%
164	11.460	11.440	11.479	VV	1035	16522	0.32%	0.029%
165	11.487	11.479	11.509	VV	426	4593	0.09%	0.008%
166	11.539	11.509	11.575	VV	286	5741	0.11%	0.010%
167	11.591	11.575	11.615	VV	103	1060	0.02%	0.002%
168	11.669	11.615	11.708	VV	2491	33657	0.65%	0.058%
169	11.738	11.708	11.768	VV	6087	76303	1.47%	0.132%
170	11.787	11.768	11.807	VV	444	8598	0.17%	0.015%
171	11.828	11.807	11.881	VV	564	12460	0.24%	0.022%
172	11.894	11.881	11.913	VV	119	1574	0.03%	0.003%
173	11.972	11.913	11.998	PV	225	6144	0.12%	0.011%
174	12.056	11.998	12.077	VV	568	14603	0.28%	0.025%

175	12.098	12.077	12.115	VV	563	10212	0.20%	0.018%
176	12.133	12.115	12.181	VV	935	19759	0.38%	0.034%
177	12.203	12.181	12.246	VV	571	15130	0.29%	0.026%
178	12.261	12.246	12.281	VV	216	2774	0.05%	0.005%
179	12.410	12.281	12.437	VV	1416	52664	1.01%	0.091%
180	12.458	12.437	12.486	VV	598	11337	0.22%	0.020%
181	12.513	12.486	12.529	VV	366	6646	0.13%	0.012%
182	12.554	12.529	12.594	VV	693	17690	0.34%	0.031%
183	12.635	12.594	12.668	VV	1704	37942	0.73%	0.066%
184	12.701	12.668	12.733	VV	705	20012	0.38%	0.035%
185	12.745	12.733	12.759	VV	333	4610	0.09%	0.008%
186	12.786	12.759	12.810	VV	660	13582	0.26%	0.024%
187	12.826	12.810	12.855	VV	565	12401	0.24%	0.021%
188	12.916	12.855	12.948	VV	3389	70825	1.36%	0.123%
189	12.997	12.948	13.030	VV	3334	49993	0.96%	0.087%
190	13.058	13.030	13.108	VV	6797	88708	1.70%	0.154%
191	13.124	13.108	13.164	VV	320	8336	0.16%	0.014%
192	13.178	13.164	13.221	VV	286	5813	0.11%	0.010%
193	13.232	13.221	13.251	VV	101	1059	0.02%	0.002%
194	13.338	13.251	13.371	PV	336	9520	0.18%	0.016%
195	13.386	13.371	13.404	VV	279	2323	0.04%	0.004%
196	13.512	13.404	13.607	PV	420528	5206492	100.00%	9.017%
197	13.624	13.607	13.651	VV	1278	24417	0.47%	0.042%
198	13.675	13.651	13.711	VV	2003	36783	0.71%	0.064%
199	13.732	13.711	13.768	VV	626	15150	0.29%	0.026%
200	13.795	13.768	13.856	VV	292	7427	0.14%	0.013%
201	13.884	13.856	13.915	VV	408	9232	0.18%	0.016%
202	13.949	13.915	13.991	VBA	737	20891	0.40%	0.036%
203	14.020	13.991	14.043	BV	280	3245	0.06%	0.006%
204	14.061	14.043	14.090	PV	150	1939	0.04%	0.003%
205	14.136	14.090	14.155	VV	317	8080	0.16%	0.014%
206	14.213	14.155	14.238	PV	2662	40514	0.78%	0.070%
207	14.266	14.238	14.354	VV	6974	97267	1.87%	0.168%
208	14.372	14.354	14.396	VV	122	1622	0.03%	0.003%
209	14.423	14.396	14.431	PV	64	932	0.02%	0.002%
210	14.495	14.431	14.519	VV	304	7496	0.14%	0.013%
211	14.603	14.519	14.615	VV	288	10322	0.20%	0.018%
212	14.632	14.615	14.651	VV	277	4499	0.09%	0.008%
213	14.708	14.651	14.769	VV	1377	34756	0.67%	0.060%
214	14.832	14.769	14.875	VV	5426	81020	1.56%	0.140%
215	14.921	14.875	14.944	VV	280	8789	0.17%	0.015%
216	14.972	14.944	14.995	VV	342	7929	0.15%	0.014%
217	15.036	14.995	15.068	VV	162	4922	0.09%	0.009%
218	15.092	15.068	15.106	VV	306	4169	0.08%	0.007%
219	15.154	15.106	15.170	VV	689	14664	0.28%	0.025%
220	15.186	15.170	15.211	VV	649	9699	0.19%	0.017%
221	15.231	15.211	15.263	VV	239	5548	0.11%	0.010%

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222	15.333	15.263	15.351	VV	2426	39303	0.75%	0.068%
223	15.377	15.351	15.455	VV	9778	154509	2.97%	0.268%
224	15.466	15.455	15.471	VV	470	4200	0.08%	0.007%
225	15.546	15.471	15.564	VV	1103	35915	0.69%	0.062%
226	15.716	15.564	15.731	VV	1182	83937	1.61%	0.145%
227	15.742	15.731	15.749	VV	1011	10635	0.20%	0.018%
228	15.771	15.749	15.787	VV	1121	23159	0.44%	0.040%
229	15.815	15.787	15.838	VV	1118	30925	0.59%	0.054%
230	15.902	15.838	15.985	VV	8680	194169	3.73%	0.336%
231	16.000	15.985	16.025	VV	705	16607	0.32%	0.029%
232	16.046	16.025	16.064	VV	817	16617	0.32%	0.029%
233	16.079	16.064	16.125	VV	658	19454	0.37%	0.034%
234	16.144	16.125	16.161	VV	361	6540	0.13%	0.011%
235	16.227	16.161	16.245	VV	684	18549	0.36%	0.032%
236	16.271	16.245	16.332	VV	525	14107	0.27%	0.024%
237	16.366	16.332	16.381	PV	1418	18378	0.35%	0.032%
238	16.406	16.381	16.477	VV	8865	128149	2.46%	0.222%
239	16.725	16.477	16.734	PV	1313	54346	1.04%	0.094%
240	16.893	16.734	16.937	VV	10335	322067	6.19%	0.558%
241	16.972	16.937	16.984	VV	2308	61886	1.19%	0.107%
242	17.251	16.984	17.267	VV	3047	395092	7.59%	0.684%
243	17.363	17.267	17.431	VV	11083	419946	8.07%	0.727%
244	17.442	17.431	17.458	VV	2703	41343	0.79%	0.072%
245	17.473	17.458	17.528	VV	2181	77192	1.48%	0.134%
246	17.546	17.528	17.576	VV	1449	34646	0.67%	0.060%
247	17.593	17.576	17.608	VV	901	15933	0.31%	0.028%
248	17.658	17.608	17.675	VV	768	23675	0.45%	0.041%
249	17.701	17.675	17.721	VV	504	9230	0.18%	0.016%
250	17.817	17.721	17.883	PV	14066	222956	4.28%	0.386%
251	17.941	17.883	17.958	PV	466	5596	0.11%	0.010%
252	18.046	17.958	18.056	PV	347	1895	0.04%	0.003%
253	18.257	18.056	18.288	PV	8775	228961	4.40%	0.397%
254	18.471	18.288	18.481	VV	4269	274452	5.27%	0.475%
255	18.578	18.481	18.599	VV	6276	349894	6.72%	0.606%
256	18.614	18.599	18.628	VV	5665	95897	1.84%	0.166%
257	18.644	18.628	18.657	VV	5338	90006	1.73%	0.156%
258	18.682	18.657	18.715	VV	12039	240820	4.63%	0.417%
259	18.783	18.715	18.809	VV	2887	142291	2.73%	0.246%
260	18.822	18.809	18.831	VV	1565	19331	0.37%	0.033%
261	19.009	18.831	19.045	VV	6326	457768	8.79%	0.793%
262	19.095	19.045	19.136	VV	8799	303242	5.82%	0.525%
263	19.184	19.136	19.201	VV	4884	138495	2.66%	0.240%
264	19.215	19.201	19.241	VV	4082	89674	1.72%	0.155%
265	19.297	19.241	19.310	VV	5092	189178	3.63%	0.328%
266	19.369	19.310	19.377	VV	6545	223457	4.29%	0.387%
267	19.387	19.377	19.408	VV	6294	103132	1.98%	0.179%
268	19.435	19.408	19.444	VV	6490	127081	2.44%	0.220%
269	19.496	19.444	19.523	VV	12613	423097	8.13%	0.733%

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270	19.562	19.523	19.588	VV	11565	413601	7.94%	0.716%
271	19.612	19.588	19.642	VV	12017	353990	6.80%	0.613%
272	19.686	19.642	19.695	VV	12997	371946	7.14%	0.644%
273	19.757	19.695	19.769	VV	15385	600121	11.53%	1.039%
274	19.813	19.769	19.846	VV	17184	729166	14.00%	1.263%
275	19.885	19.846	19.939	VV	20681	993915	19.09%	1.721%
276	19.948	19.939	19.954	VV	14110	121366	2.33%	0.210%
277	19.966	19.954	19.981	VV	14665	227219	4.36%	0.394%
278	20.191	19.981	20.220	VV	28146	3003135	57.68%	5.201%
279	20.268	20.220	20.278	VV	29712	959186	18.42%	1.661%
280	20.285	20.278	20.302	VV	29132	398435	7.65%	0.690%
281	20.324	20.302	20.338	VV	27276	562956	10.81%	0.975%
282	20.361	20.338	20.371	VV	26931	526055	10.10%	0.911%
283	20.396	20.371	20.423	VV	28988	853941	16.40%	1.479%
284	20.458	20.423	20.467	VV	27670	692040	13.29%	1.199%
285	20.601	20.467	20.615	VV	39741	3139295	60.30%	5.437%
286	20.703	20.615	20.818	VV	48918	4969894	95.46%	8.607%
287	20.903	20.818	20.914	VV	42577	2175568	41.79%	3.768%
288	20.924	20.914	20.938	VV	41562	593332	11.40%	1.028%
289	20.966	20.938	20.977	VV	41915	956467	18.37%	1.657%
290	20.990	20.977	21.038	VV	41491	1363910	26.20%	2.362%
291	21.106	21.038	21.137	VV	38979	2165373	41.59%	3.750%
292	21.154	21.137	21.198	VV	34773	1177872	22.62%	2.040%
293	21.282	21.198	21.290	VV	40504	1941293	37.29%	3.362%
294	21.299	21.290	21.396	VV	40705	2168502	41.65%	3.756%
295	21.428	21.396	21.443	VV	31955	851736	16.36%	1.475%
296	21.458	21.443	21.545	VV	33284	1685204	32.37%	2.919%
297	21.567	21.545	21.611	VV	22690	809234	15.54%	1.402%
298	21.623	21.611	21.640	VV	18612	313745	6.03%	0.543%
299	21.659	21.640	21.669	VV	18810	316736	6.08%	0.549%
300	21.762	21.669	21.784	VV	27080	1576303	30.28%	2.730%
301	21.794	21.784	21.818	VV	24339	478344	9.19%	0.828%
302	21.831	21.818	21.858	VV	22128	483245	9.28%	0.837%
303	21.869	21.858	21.934	VV	18851	719957	13.83%	1.247%
304	21.948	21.934	21.967	VV	13810	261324	5.02%	0.453%
305	21.993	21.967	22.006	VV	15128	308260	5.92%	0.534%
306	22.037	22.006	22.048	VV	15735	362741	6.97%	0.628%
307	22.066	22.048	22.142	VV	14578	644844	12.39%	1.117%
308	22.164	22.142	22.191	VV	6213	151802	2.92%	0.263%
309	22.235	22.191	22.246	VV	9229	223101	4.29%	0.386%
310	22.283	22.246	22.295	VV	9976	254402	4.89%	0.441%
311	22.327	22.295	22.339	VV	9618	243537	4.68%	0.422%
312	22.355	22.339	22.364	VV	10078	145758	2.80%	0.252%
313	22.379	22.364	22.387	VV	10386	138061	2.65%	0.239%
314	22.401	22.387	22.430	VV	10864	250346	4.81%	0.434%
315	22.443	22.430	22.488	VV	8448	178649	3.43%	0.309%
316	22.534	22.488	22.553	PV	2741	52786	1.01%	0.091%

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317 22.585 22.553 22.601 VBA 3440 153564 2.95% 0.266%
Sum of corrected areas: 57739734

Aliphatic EPH 092425.M Fri Sep 26 03:54:12 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3176
Lab Sample ID:	Q3176-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	68.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/25/25 18:52	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.25	J	1	0.20	1.46	mg/kg	FG016654.D
Aliphatic C12-C16	Aliphatic C12-C16	0.66	J	1	0.16	0.97	mg/kg	FG016654.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	J	1	0.19	1.46	mg/kg	FG016654.D
Aliphatic C21-C28	Aliphatic C21-C28	1.00	J	1	0.77	1.94	mg/kg	FG016654.D
Aliphatic C28-C40	Aliphatic C28-C40	33.4		1	1.72	2.92	mg/kg	FG016654.D
Aromatic C10-C12	Aromatic C10-C12	0.18	U	1	0.18	0.97	mg/kg	FF016463.D
Aromatic C12-C16	Aromatic C12-C16	2.79		1	0.34	1.46	mg/kg	FF016463.D
Aromatic C16-C21	Aromatic C16-C21	1.46	J	1	0.58	2.43	mg/kg	FF016463.D
Aromatic C21-C36	Aromatic C21-C36	1.74	U	1	1.74	3.89	mg/kg	FF016463.D
Total AliphaticEPH	Total AliphaticEPH	35.6			3.05	8.75	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.25	J		2.83	8.75	mg/kg	
Total EPH	Total EPH	39.9			5.88	17.5	mg/kg	

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3176
Lab Sample ID:	Q3176-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	68.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016463.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.18	U	0.18	0.97	mg/kg
Aromatic C12-C16	Aromatic C12-C16	2.79		0.34	1.46	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.46	J	0.58	2.43	mg/kg
Aromatic C21-C36	Aromatic C21-C36	1.74	U	1.74	3.89	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.5		40 - 140	91%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.1		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.9		40 - 140	60%	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:	Q3176-02	Acq On:	26 Sep 2025 09:11
Client Sample ID:	EME-TS13-01	Operator:	YP\AJ
Data file:	FF016463.D	Misc:	
Instrument:	FID_F	ALS Vial:	91
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.398	206095	1.438	200	ug/ml
Aromatic C12-C16	6.399	9.102	4165124	28.688	300	ug/ml
Aromatic C16-C21	9.103	13.422	2171100	15.059	500	ug/ml
Aromatic C21-C36	13.423	18.876	1682833	12.862	800	ug/ml
Aromatic EPH	4.521	18.876	8225152	58.048		ug/ml
ortho-Terphenyl (SURR)	11.976	11.976	4557936	29.9		ug/ml
2-Bromonaphthalene (SURR)	8.032	8.032	5697762	45.48		ug/ml
2-Flurobiphenyl (SURR)	8.909	8.909	3634786	43.1		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016463.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:11
Operator : YP\AJ
Sample : Q3176-02
Misc :
ALS Vial : 91 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 26 23:13:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 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...	8.032	5697762	45.485 ug/ml
Spiked Amount 50.000		Recovery =	90.97%
6) S 2-Flurobiphenyl (SURR)	8.909	3634786	43.097 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	86.19%
11) S ortho-Terphenyl (SURR)	11.976	4557936	29.898 ug/ml
Spiked Amount 50.000		Recovery =	59.80%
Target Compounds			

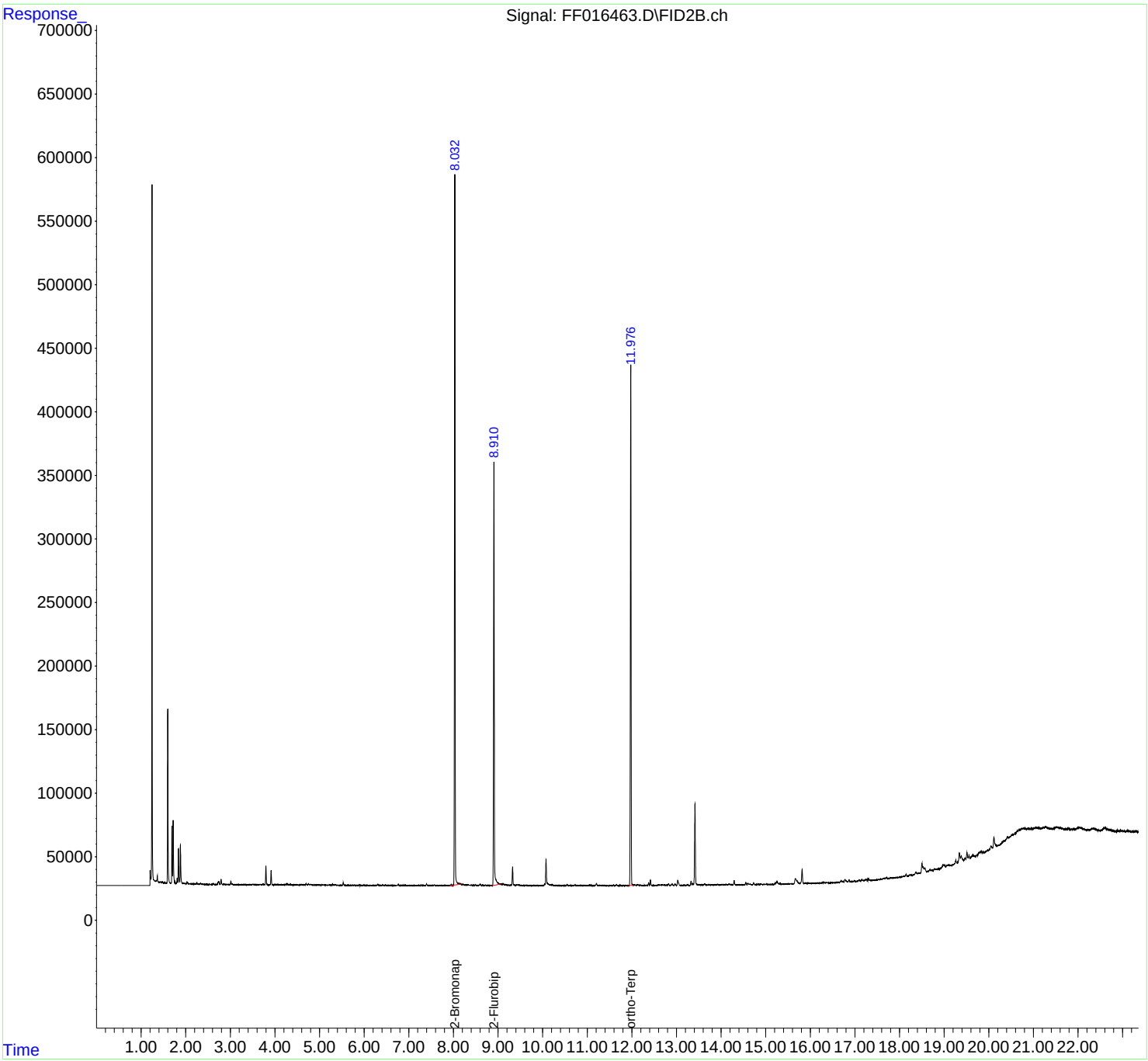
(f)=RT Delta > 1/2 Window (m)=manual int.

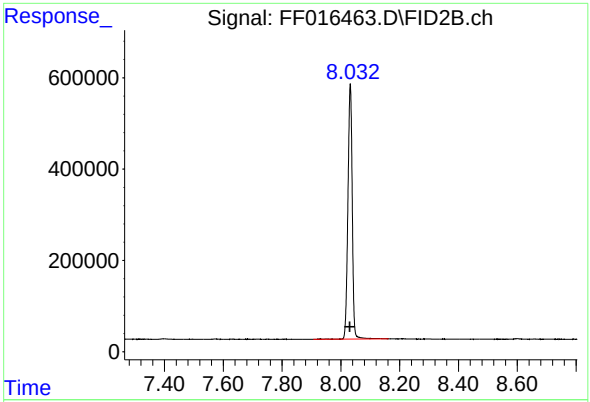
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016463.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:11
Operator : YP\AJ
Sample : Q3176-02
Misc :
ALS Vial : 91 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 26 23:13:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

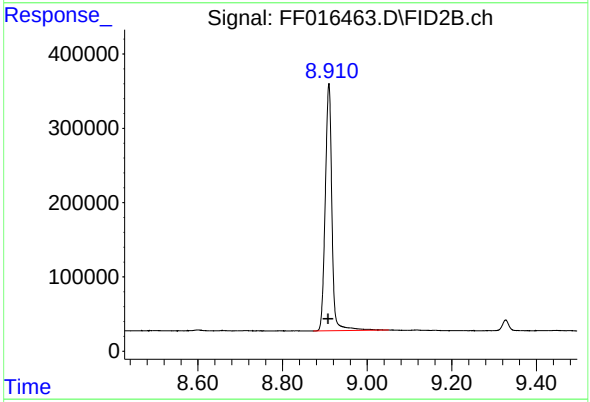




#4 2-Bromonaphthalene (SURR)

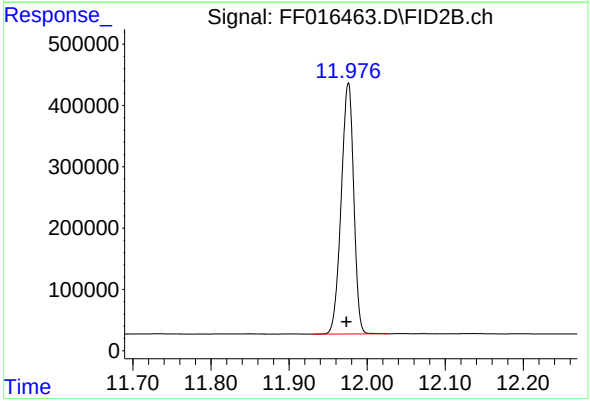
R.T.: 8.032 min
Delta R.T.: 0.002 min
Response: 5697762
Conc: 45.48 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS13-01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.909 min
Delta R.T.: 0.002 min
Response: 3634786
Conc: 43.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.976 min
Delta R.T.: 0.002 min
Response: 4557936
Conc: 29.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016463.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:11
Sample : Q3176-02
Misc :
ALS Vial : 91 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.471	4.421	4.489	BV	223	2574	0.04%	0.014%
2	4.496	4.489	4.509	VV	158	1283	0.02%	0.007%
3	4.588	4.565	4.611	VV	525	6811	0.12%	0.037%
4	4.624	4.611	4.646	VV	302	3600	0.06%	0.019%
5	4.650	4.646	4.669	VV	137	1525	0.03%	0.008%
6	4.697	4.681	4.730	VV	1227	14908	0.26%	0.080%
7	4.750	4.730	4.767	VV	1391	14941	0.26%	0.081%
8	4.777	4.767	4.789	VV	473	4801	0.08%	0.026%
9	4.805	4.789	4.827	VV	683	8165	0.14%	0.044%
10	4.838	4.827	4.855	VV	251	2391	0.04%	0.013%
11	4.873	4.855	4.898	VV	398	4614	0.08%	0.025%
12	4.953	4.898	4.977	PV	436	8603	0.15%	0.046%
13	5.001	4.977	5.030	VV	251	5465	0.10%	0.029%
14	5.039	5.030	5.051	VV	155	1356	0.02%	0.007%
15	5.084	5.051	5.125	VV	295	6813	0.12%	0.037%
16	5.134	5.125	5.189	VV	200	4181	0.07%	0.023%
17	5.224	5.196	5.245	VV	206	4128	0.07%	0.022%
18	5.263	5.245	5.277	VV	215	2670	0.05%	0.014%
19	5.293	5.277	5.318	VV	839	9747	0.17%	0.053%
20	5.360	5.337	5.389	VV	350	6303	0.11%	0.034%
21	5.407	5.389	5.435	VV	230	3145	0.05%	0.017%
22	5.532	5.493	5.562	VV	2192	25058	0.44%	0.135%
23	5.569	5.562	5.601	VV	150	2650	0.05%	0.014%
24	5.612	5.601	5.622	VV	117	1100	0.02%	0.006%
25	5.627	5.622	5.647	VV	168	1367	0.02%	0.007%

rteres

26	5.660	5.647	5.678	VV	189	2343	0.04%	0.013%
27	5.693	5.687	5.716	VV	170	1637	0.03%	0.009%
28	5.731	5.716	5.752	VV	214	3236	0.06%	0.017%
29	5.776	5.752	5.797	VV	335	5417	0.09%	0.029%
30	5.810	5.797	5.819	VV	168	1818	0.03%	0.010%
31	5.839	5.819	5.854	VV	204	2296	0.04%	0.012%
32	5.892	5.854	5.922	VV	299	5660	0.10%	0.031%
33	5.925	5.922	5.942	VV	179	1215	0.02%	0.007%
34	5.988	5.942	6.026	VV	264	4803	0.08%	0.026%
35	6.042	6.034	6.066	VV	114	1637	0.03%	0.009%
36	6.084	6.072	6.124	VV	318	5440	0.09%	0.029%
37	6.173	6.163	6.184	VV	133	1017	0.02%	0.005%
38	6.209	6.195	6.231	VV	213	2517	0.04%	0.014%
39	6.263	6.252	6.271	VV	172	1185	0.02%	0.006%
40	6.304	6.271	6.343	VV	1141	16987	0.30%	0.092%
41	6.364	6.343	6.392	VV	307	4545	0.08%	0.025%
42	6.409	6.392	6.417	VV	396	3763	0.07%	0.020%
43	6.424	6.417	6.445	VV	463	4546	0.08%	0.025%
44	6.479	6.454	6.519	VV	539	7999	0.14%	0.043%
45	6.534	6.519	6.544	VV	186	1848	0.03%	0.010%
46	6.553	6.544	6.588	VV	178	3166	0.06%	0.017%
47	6.601	6.588	6.628	VV	441	6245	0.11%	0.034%
48	6.654	6.641	6.679	VV	177	2263	0.04%	0.012%
49	6.727	6.723	6.739	VV	152	1156	0.02%	0.006%
50	6.766	6.739	6.801	VV	1350	17648	0.31%	0.095%
51	6.821	6.801	6.842	VV	285	4892	0.09%	0.026%
52	6.852	6.842	6.871	VV	288	3317	0.06%	0.018%
53	6.890	6.871	6.901	VV	220	2926	0.05%	0.016%
54	6.921	6.901	6.941	VV	388	5054	0.09%	0.027%
55	6.951	6.941	6.978	VV	145	2109	0.04%	0.011%
56	6.996	6.978	7.017	VV	314	3570	0.06%	0.019%
57	7.044	7.039	7.074	VV	118	1730	0.03%	0.009%
58	7.085	7.074	7.091	VV	175	1092	0.02%	0.006%
59	7.109	7.106	7.123	VV	138	1127	0.02%	0.006%
60	7.151	7.134	7.156	VV	119	1168	0.02%	0.006%
61	7.160	7.156	7.178	VV	144	1589	0.03%	0.009%
62	7.184	7.178	7.196	VV	157	1127	0.02%	0.006%
63	7.224	7.196	7.241	VV	314	4277	0.07%	0.023%
64	7.249	7.241	7.254	VV	146	1039	0.02%	0.006%
65	7.280	7.254	7.317	VV	404	9650	0.17%	0.052%
66	7.328	7.317	7.333	VV	273	2128	0.04%	0.011%
67	7.339	7.333	7.371	VV	321	3981	0.07%	0.021%
68	7.397	7.371	7.439	VV	1205	20261	0.35%	0.109%
69	7.447	7.439	7.482	VV	185	3660	0.06%	0.020%

rteres

70	7.495	7.482	7.529	VV	230	4028	0.07%	0.022%
71	7.542	7.529	7.552	VV	144	1419	0.02%	0.008%
72	7.574	7.552	7.606	VV	770	10688	0.19%	0.058%
73	7.628	7.606	7.654	VV	270	5717	0.10%	0.031%
74	7.656	7.654	7.669	VV	220	1495	0.03%	0.008%
75	7.687	7.669	7.697	VV	273	3482	0.06%	0.019%
76	7.720	7.697	7.742	VV	324	5725	0.10%	0.031%
77	7.751	7.742	7.764	VV	285	2748	0.05%	0.015%
78	7.774	7.764	7.797	VV	221	3429	0.06%	0.018%
79	7.803	7.797	7.829	VV	239	3473	0.06%	0.019%
80	7.834	7.829	7.844	VV	158	1174	0.02%	0.006%
81	7.849	7.844	7.869	VV	196	2014	0.04%	0.011%
82	7.879	7.869	7.917	VV	220	4590	0.08%	0.025%
83	7.952	7.917	7.969	VV	720	11846	0.21%	0.064%
84	7.982	7.969	7.999	VV	420	5538	0.10%	0.030%
85	8.032	7.999	8.121	VV	559295	5739259	100.00%	30.955%
86	8.126	8.121	8.163	VV	1828	39881	0.69%	0.215%
87	8.168	8.163	8.195	VV	1238	21573	0.38%	0.116%
88	8.210	8.195	8.231	VV	1368	22366	0.39%	0.121%
89	8.236	8.231	8.273	VV	717	15222	0.27%	0.082%
90	8.294	8.273	8.325	VV	771	18723	0.33%	0.101%
91	8.331	8.325	8.337	VV	534	3640	0.06%	0.020%
92	8.348	8.337	8.372	VV	633	10044	0.18%	0.054%
93	8.378	8.372	8.392	VV	407	4417	0.08%	0.024%
94	8.395	8.392	8.402	VV	369	1905	0.03%	0.010%
95	8.419	8.402	8.442	VV	372	7542	0.13%	0.041%
96	8.469	8.442	8.474	VV	384	6435	0.11%	0.035%
97	8.498	8.474	8.541	VV	517	14934	0.26%	0.081%
98	8.545	8.541	8.551	VV	297	1599	0.03%	0.009%
99	8.599	8.551	8.638	VV	1435	29614	0.52%	0.160%
100	8.658	8.638	8.686	VV	646	10981	0.19%	0.059%
101	8.717	8.686	8.735	VV	511	10352	0.18%	0.056%
102	8.747	8.735	8.777	VV	301	4864	0.08%	0.026%
103	8.793	8.777	8.801	VV	322	2909	0.05%	0.016%
104	8.804	8.801	8.809	VV	291	1030	0.02%	0.006%
105	8.834	8.809	8.864	VV	307	5903	0.10%	0.032%
106	8.910	8.873	9.029	VV	332746	3688335	64.27%	19.893%
107	9.032	9.029	9.091	VV	1586	47111	0.82%	0.254%
108	9.094	9.091	9.099	VV	1002	5047	0.09%	0.027%
109	9.116	9.099	9.150	VV	1385	32724	0.57%	0.176%
110	9.160	9.150	9.191	VV	991	17808	0.31%	0.096%
111	9.201	9.191	9.217	VV	605	8239	0.14%	0.044%
112	9.224	9.217	9.239	VV	549	6437	0.11%	0.035%

rteres

113	9.245	9.239	9.265	VV	471	6516	0.11%	0.035%
114	9.289	9.265	9.293	VV	499	7352	0.13%	0.040%
115	9.327	9.293	9.396	VV	14907	178911	3.12%	0.965%
116	9.408	9.396	9.430	VV	636	11050	0.19%	0.060%
117	9.448	9.430	9.470	VV	844	15373	0.27%	0.083%
118	9.476	9.470	9.501	VV	588	7193	0.13%	0.039%
119	9.515	9.501	9.537	VV	381	6001	0.10%	0.032%
120	9.541	9.537	9.555	VV	223	1770	0.03%	0.010%
121	9.569	9.564	9.588	VV	215	2428	0.04%	0.013%
122	9.617	9.588	9.640	VV	510	10291	0.18%	0.056%
123	9.649	9.640	9.675	VV	418	5915	0.10%	0.032%
124	9.682	9.675	9.700	VV	169	1763	0.03%	0.010%
125	9.709	9.700	9.758	VV	212	4939	0.09%	0.027%
126	9.798	9.769	9.839	VV	461	9285	0.16%	0.050%
127	9.869	9.839	9.917	VV	448	8086	0.14%	0.044%
128	9.936	9.917	9.963	PV	244	3841	0.07%	0.021%
129	9.984	9.974	9.992	VV	142	1429	0.02%	0.008%
130	9.995	9.992	10.019	VV	189	1679	0.03%	0.009%
131	10.044	10.019	10.055	VV	1662	18131	0.32%	0.098%
132	10.076	10.055	10.190	VV	20869	304221	5.30%	1.641%
133	10.210	10.190	10.262	VV	1224	24779	0.43%	0.134%
134	10.273	10.262	10.302	VV	306	6180	0.11%	0.033%
135	10.307	10.302	10.347	VV	312	5468	0.10%	0.029%
136	10.368	10.347	10.388	VV	440	6337	0.11%	0.034%
137	10.412	10.398	10.418	VV	140	1210	0.02%	0.007%
138	10.436	10.418	10.489	VV	209	4776	0.08%	0.026%
139	10.493	10.489	10.514	VV	130	1101	0.02%	0.006%
140	10.550	10.524	10.577	VV	1198	15879	0.28%	0.086%
141	10.594	10.577	10.617	VV	287	5244	0.09%	0.028%
142	10.633	10.617	10.667	VV	377	7217	0.13%	0.039%
143	10.675	10.667	10.681	VV	199	1484	0.03%	0.008%
144	10.687	10.681	10.707	VV	215	2732	0.05%	0.015%
145	10.728	10.707	10.751	VV	672	9855	0.17%	0.053%
146	10.761	10.751	10.765	VV	191	1383	0.02%	0.007%
147	10.770	10.765	10.779	VV	272	1426	0.02%	0.008%
148	10.796	10.779	10.815	VV	339	4588	0.08%	0.025%
149	10.835	10.815	10.866	VV	267	6954	0.12%	0.038%
150	10.881	10.866	10.886	VV	256	2464	0.04%	0.013%
151	10.901	10.886	10.920	VV	315	5080	0.09%	0.027%
152	10.929	10.920	10.939	VV	281	2825	0.05%	0.015%
153	10.945	10.939	10.986	VV	278	4815	0.08%	0.026%
154	11.008	10.986	11.027	VV	258	3851	0.07%	0.021%
155	11.048	11.027	11.062	VV	489	7414	0.13%	0.040%

156	11.080	11.062	11.096	VV	425	5604	0.10%	0.030%
157	11.103	11.096	11.112	VV	174	1148	0.02%	0.006%
158	11.119	11.112	11.129	VV	191	1178	0.02%	0.006%
159	11.147	11.129	11.156	VV	197	2557	0.04%	0.014%
160	11.173	11.156	11.184	VV	304	3915	0.07%	0.021%
161	11.205	11.184	11.252	VV	1795	29110	0.51%	0.157%
162	11.284	11.252	11.339	VV	479	14869	0.26%	0.080%
163	11.344	11.339	11.352	VV	283	1765	0.03%	0.010%
164	11.363	11.359	11.369	VV	228	1280	0.02%	0.007%
165	11.376	11.369	11.413	VV	305	5136	0.09%	0.028%
166	11.416	11.413	11.432	VV	142	1427	0.02%	0.008%
167	11.439	11.432	11.481	VV	148	2658	0.05%	0.014%
168	11.512	11.481	11.541	VV	225	4733	0.08%	0.026%
169	11.544	11.541	11.567	VV	81	1212	0.02%	0.007%
170	11.586	11.567	11.607	VV	631	7832	0.14%	0.042%
171	11.630	11.607	11.635	VV	344	3657	0.06%	0.020%
172	11.654	11.635	11.684	VV	1058	13951	0.24%	0.075%
173	11.732	11.684	11.771	VV	518	10628	0.19%	0.057%
174	11.776	11.771	11.798	VV	80	1080	0.02%	0.006%
175	11.813	11.798	11.833	VV	358	4670	0.08%	0.025%
176	11.849	11.833	11.887	VV	367	5867	0.10%	0.032%
177	11.896	11.887	11.933	VV	230	2986	0.05%	0.016%
178	11.976	11.933	12.028	PV	409599	4572500	79.67%	24.662%
179	12.045	12.028	12.058	VV	739	10976	0.19%	0.059%
180	12.073	12.058	12.099	VV	620	11662	0.20%	0.063%
181	12.137	12.099	12.177	VV	770	23642	0.41%	0.128%
182	12.195	12.177	12.237	VV	475	9419	0.16%	0.051%
183	12.265	12.237	12.277	VV	162	3160	0.06%	0.017%
184	12.319	12.286	12.345	VV	422	8188	0.14%	0.044%
185	12.378	12.354	12.397	VV	2347	29025	0.51%	0.157%
186	12.417	12.397	12.453	VV	4539	54100	0.94%	0.292%
187	12.489	12.453	12.512	VV	343	7252	0.13%	0.039%
188	12.540	12.512	12.575	VV	331	8735	0.15%	0.047%
189	12.604	12.575	12.639	VV	565	15801	0.28%	0.085%
190	12.654	12.639	12.670	VV	548	7180	0.13%	0.039%
191	12.685	12.670	12.716	VV	666	13479	0.23%	0.073%
192	12.721	12.716	12.736	VV	364	3708	0.06%	0.020%
193	12.757	12.736	12.774	VV	422	7431	0.13%	0.040%
194	12.827	12.774	12.855	VV	1243	25894	0.45%	0.140%
195	12.905	12.855	12.934	VV	1437	25143	0.44%	0.136%
196	12.967	12.934	13.004	VV	1295	20454	0.36%	0.110%
197	13.029	13.004	13.077	VV	4075	71879	1.25%	0.388%
198	13.088	13.077	13.108	PV	122	1110	0.02%	0.006%
199	13.123	13.108	13.137	VV	125	1011	0.02%	0.005%

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200	13.157	13.137	13.179	VV	300	4082	0.07%	0.022%
201	13.189	13.179	13.207	VV	202	2330	0.04%	0.013%
202	13.214	13.207	13.224	VV	202	1365	0.02%	0.007%
203	13.246	13.224	13.289	VV	684	11119	0.19%	0.060%
204	13.327	13.300	13.347	VV	3350	41441	0.72%	0.224%
205	13.361	13.347	13.382	VV	1548	22222	0.39%	0.120%
206	13.414	13.382	13.485	VV	64135	797585	13.90%	4.302%
207	13.501	13.485	13.520	VV	539	10259	0.18%	0.055%
208	13.532	13.520	13.552	VV	509	7118	0.12%	0.038%
209	13.585	13.552	13.602	VV	660	11990	0.21%	0.065%
210	13.610	13.602	13.614	VV	495	3188	0.06%	0.017%
211	13.634	13.614	13.678	VV	1352	23532	0.41%	0.127%
212	13.708	13.678	13.722	VV	358	6233	0.11%	0.034%
213	13.743	13.722	13.762	VV	424	6882	0.12%	0.037%
214	13.790	13.762	13.796	VV	518	7708	0.13%	0.042%
215	13.798	13.796	13.825	VV	498	5451	0.09%	0.029%
216	13.849	13.832	13.854	VV	379	3808	0.07%	0.021%
217	13.860	13.854	13.867	VV	399	3039	0.05%	0.016%
218	13.872	13.867	13.883	VV	419	2993	0.05%	0.016%
219	13.925	13.883	13.954	VV	864	20283	0.35%	0.109%
220	13.962	13.954	13.969	VV	291	2240	0.04%	0.012%
221	13.971	13.969	13.976	VV	285	1020	0.02%	0.006%
222	13.988	13.976	14.006	VV	371	4994	0.09%	0.027%
223	14.028	14.006	14.051	VV	688	12120	0.21%	0.065%
224	14.064	14.051	14.091	VV	532	8584	0.15%	0.046%
225	14.115	14.091	14.143	VV	761	12553	0.22%	0.068%
226	14.170	14.143	14.188	VV	1139	16210	0.28%	0.087%
227	14.201	14.188	14.229	VV	650	12341	0.22%	0.067%
228	14.233	14.229	14.256	VV	456	5249	0.09%	0.028%
229	14.292	14.256	14.336	VV	3654	50901	0.89%	0.275%
230	14.339	14.336	14.361	VV	263	2213	0.04%	0.012%
231	14.383	14.361	14.401	VV	299	4737	0.08%	0.026%
232	14.411	14.401	14.439	VV	216	3318	0.06%	0.018%
233	14.458	14.439	14.486	VV	299	4425	0.08%	0.024%
234	14.502	14.486	14.514	PV	121	1055	0.02%	0.006%
235	14.555	14.514	14.578	VV	2067	29615	0.52%	0.160%
236	14.604	14.578	14.628	VV	1462	26321	0.46%	0.142%
237	14.643	14.628	14.702	VV	639	17480	0.30%	0.094%
238	14.730	14.702	14.756	VV	1625	22099	0.39%	0.119%
239	14.762	14.756	14.774	VV	186	1864	0.03%	0.010%
240	14.794	14.774	14.814	VV	433	6523	0.11%	0.035%
241	14.835	14.814	14.856	VV	539	8749	0.15%	0.047%
242	14.862	14.856	14.876	VV	340	3165	0.06%	0.017%

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243	14.900	14.876	14.927	VV	662	10735	0.19%	0.058%
244	14.944	14.927	14.991	VV	343	8235	0.14%	0.044%
245	15.024	14.991	15.046	VV	331	6384	0.11%	0.034%
246	15.051	15.046	15.071	VV	180	1831	0.03%	0.010%
247	15.074	15.071	15.088	VV	95	1017	0.02%	0.005%
248	15.111	15.088	15.139	VV	227	3340	0.06%	0.018%
249	15.166	15.139	15.189	PV	152	2695	0.05%	0.015%
250	15.218	15.189	15.233	VV	1283	21754	0.38%	0.117%
251	15.253	15.233	15.301	VV	2529	54785	0.95%	0.295%
252	15.321	15.301	15.354	VV	829	13320	0.23%	0.072%
253	15.376	15.354	15.427	VV	532	8790	0.15%	0.047%
254	15.445	15.427	15.477	VV	243	4664	0.08%	0.025%
255	15.486	15.477	15.504	VV	128	1242	0.02%	0.007%
256	15.528	15.504	15.541	VV	108	2385	0.04%	0.013%
257	15.573	15.541	15.614	VV	187	5460	0.10%	0.029%
258	15.665	15.614	15.769	PV	4266	152326	2.65%	0.822%
259	15.816	15.769	15.851	VV	11341	163145	2.84%	0.880%
260	15.883	15.851	15.907	VV	672	13484	0.23%	0.073%
261	15.923	15.907	15.954	VV	348	6724	0.12%	0.036%
262	15.973	15.954	15.989	VV	272	3969	0.07%	0.021%
263	16.058	15.989	16.099	VV	317	12097	0.21%	0.065%
264	16.129	16.099	16.160	VV	199	5126	0.09%	0.028%
265	16.229	16.160	16.237	VV	269	8292	0.14%	0.045%
266	16.261	16.237	16.282	VV	495	8379	0.15%	0.045%
267	16.301	16.282	16.339	VV	809	13296	0.23%	0.072%
268	16.363	16.339	16.406	VV	325	7499	0.13%	0.040%
269	16.418	16.406	16.431	VV	137	1166	0.02%	0.006%
270	16.443	16.431	16.464	VV	83	1019	0.02%	0.005%
271	16.483	16.464	16.525	PV	181	3289	0.06%	0.018%
272	16.590	16.525	16.603	PV	142	3258	0.06%	0.018%
273	16.691	16.624	16.738	PV	1200	37402	0.65%	0.202%
274	16.776	16.738	16.839	VV	2117	54342	0.95%	0.293%
275	16.867	16.839	16.896	VV	1517	23085	0.40%	0.125%
276	16.914	16.896	16.929	VV	276	4873	0.08%	0.026%
277	16.988	16.929	17.011	VV	523	11786	0.21%	0.064%
278	17.097	17.011	17.126	VV	1162	24424	0.43%	0.132%
279	17.155	17.126	17.195	PV	1275	23701	0.41%	0.128%
280	17.252	17.195	17.278	VV	1204	31528	0.55%	0.170%
281	17.303	17.278	17.354	VV	1764	30197	0.53%	0.163%
282	17.378	17.354	17.387	VV	162	1722	0.03%	0.009%
283	17.422	17.387	17.437	PV	109	2467	0.04%	0.013%
284	17.545	17.437	17.556	PV	145	4303	0.07%	0.023%
285	17.577	17.556	17.607	PV	375	5652	0.10%	0.030%

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286	17.651	17.607	17.673	PV	761	19611	0.34%	0.106%
287	17.706	17.673	17.729	VV	1192	22169	0.39%	0.120%
288	17.749	17.729	17.769	VV	304	5044	0.09%	0.027%
289	17.817	17.769	17.832	VV	266	8495	0.15%	0.046%
290	17.883	17.832	17.902	VV	260	6005	0.10%	0.032%
291	17.940	17.902	17.949	PV	199	3173	0.06%	0.017%
292	18.047	17.949	18.055	VV	111	4019	0.07%	0.022%
293	18.145	18.055	18.186	PV	1681	36915	0.64%	0.199%
294	18.234	18.186	18.256	PV	983	18104	0.32%	0.098%
295	18.363	18.256	18.409	VV	1611	43802	0.76%	0.236%
296	18.438	18.409	18.453	VV	525	9301	0.16%	0.050%
297	18.503	18.453	18.552	VV	7547	196745	3.43%	1.061%
298	18.569	18.552	18.627	VV	3618	71045	1.24%	0.383%
299	18.683	18.627	18.743	VV	1482	36045	0.63%	0.194%
300	18.783	18.743	18.807	PV	1117	15775	0.27%	0.085%
301	18.841	18.807	18.851	VBA	206	11137	0.19%	0.060%

Sum of corrected areas: 18540764

Aromatic EPH 092425.M Fri Sep 26 23:33:17 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3176
Lab Sample ID:	Q3176-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	68.4
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016654.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.25	J	0.20	1.46	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.66	J	0.16	0.97	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.34	J	0.19	1.46	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.00	J	0.77	1.94	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		33.4		1.72	2.92	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		43.5		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3176-02	Acq On:	25 Sep 2025 18:52
Client Sample ID:	EME-TS13-01	Operator:	YP\AJ
Data file:	FG016654.D	Misc:	
Instrument:	FID_G	ALS Vial:	37
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	298166	2.581	300	ug/ml
Aliphatic C12-C16	6.921	10.379	812386	6.735	200	ug/ml
Aliphatic C16-C21	10.380	13.768	455844	3.526	300	ug/ml
Aliphatic C21-C28	13.769	17.453	1323352	10.271	400	ug/ml
Aliphatic C28-C40	17.454	22.488	34886207	343.981	600	ug/ml
Aliphatic EPH	3.279	22.488	37775955	367.095		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	4914957	43.54		ug/ml
Aliphatic C9-C28	3.279	17.453	2889748	23.113	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016654.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 18:52
Operator : YP\AJ
Sample : Q3176-02
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 26 02:14:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.511	4914957	43.544 ug/ml
Spiked Amount 50.000		Recovery = 87.09%	
Target Compounds			

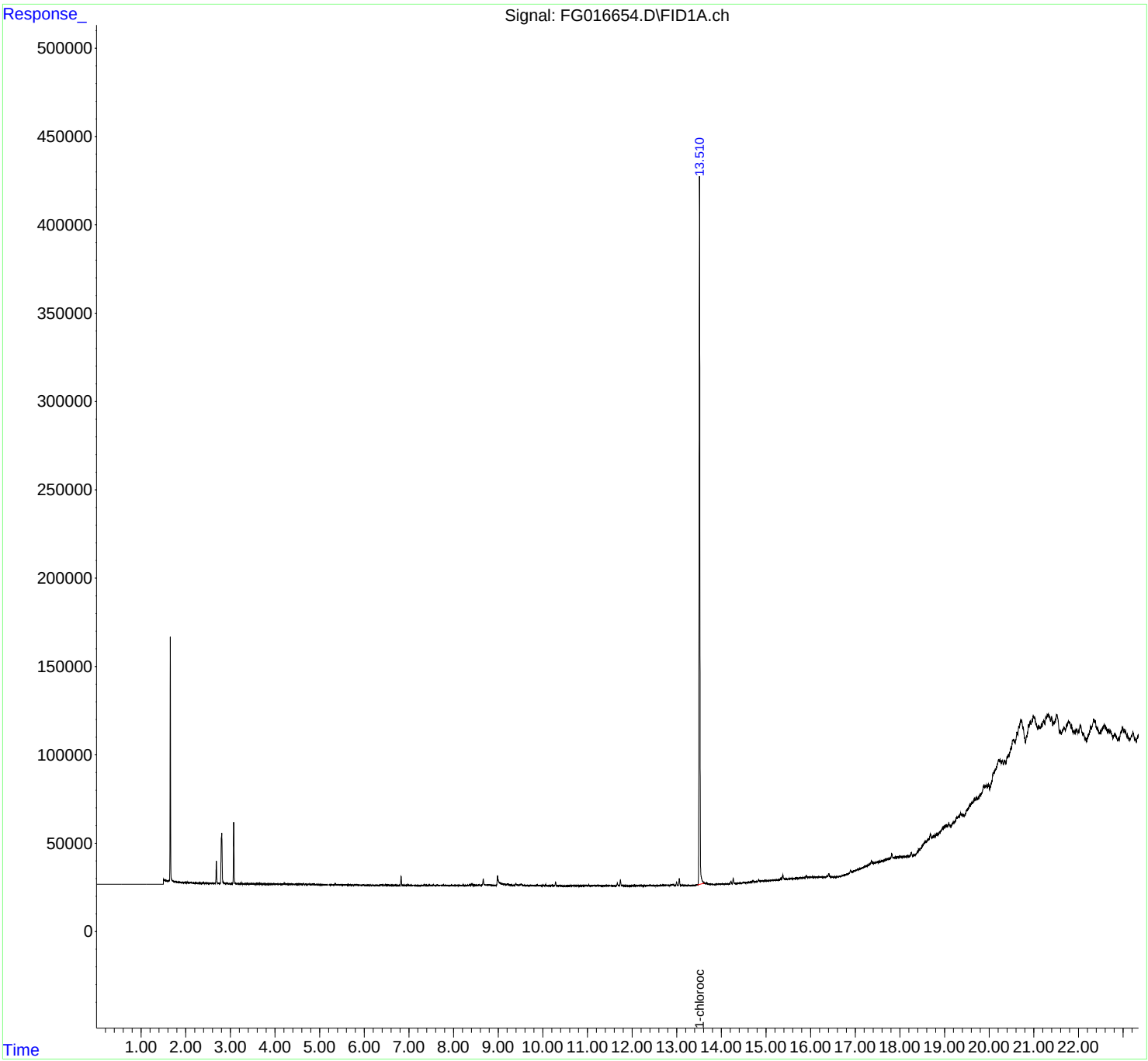
(f)=RT Delta > 1/2 Window (m)=manual int.

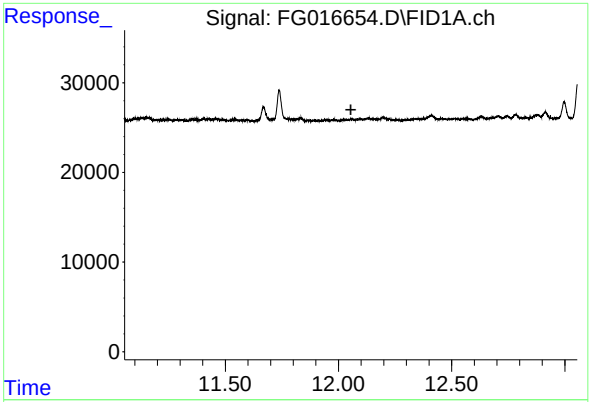
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016654.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 18:52
Operator : YP\AJ
Sample : Q3176-02
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EME-TS13-01

Integration File: autoint1.e
Quant Time: Sep 26 02:14:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

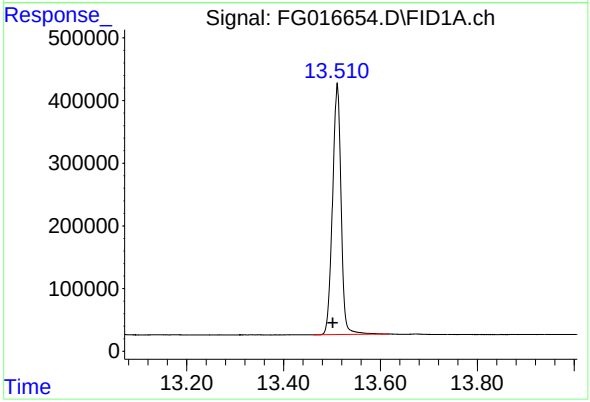




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
EME-TS13-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min
Delta R.T.: 0.009 min
Response: 4914957
Conc: 43.54 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016654.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 18:52
Sample : Q3176-02
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.261	3.222	3.348	BV	127	1909	0.04%	0.004%
2	3.356	3.348	3.365	PV	35	247	0.00%	0.001%
3	3.382	3.365	3.428	VV	208	3073	0.06%	0.007%
4	3.498	3.428	3.578	VV	128	4136	0.08%	0.010%
5	3.592	3.578	3.650	VV	150	3024	0.06%	0.007%
6	3.661	3.650	3.689	VV	96	1185	0.02%	0.003%
7	3.699	3.689	3.705	VV	52	321	0.01%	0.001%
8	3.744	3.705	3.814	VV	227	4972	0.10%	0.012%
9	3.834	3.814	3.848	VV	79	873	0.02%	0.002%
10	3.862	3.848	3.885	PV	61	981	0.02%	0.002%
11	3.893	3.885	3.931	VV	88	1524	0.03%	0.004%
12	3.946	3.931	3.958	VV	76	622	0.01%	0.001%
13	3.972	3.958	4.048	VV	181	4396	0.09%	0.010%
14	4.068	4.048	4.096	VV	164	2370	0.05%	0.006%
15	4.111	4.096	4.138	VV	131	1603	0.03%	0.004%
16	4.183	4.138	4.201	VV	248	4112	0.08%	0.010%
17	4.216	4.201	4.272	VV	317	5599	0.11%	0.013%
18	4.292	4.272	4.336	VV	220	4528	0.09%	0.011%
19	4.367	4.336	4.469	VV	460	13173	0.26%	0.031%
20	4.496	4.469	4.534	VV	123	3503	0.07%	0.008%
21	4.555	4.534	4.618	VV	347	7799	0.16%	0.018%
22	4.644	4.618	4.666	VV	748	9365	0.19%	0.022%
23	4.682	4.666	4.742	VV	215	5680	0.11%	0.013%
24	4.757	4.742	4.794	VV	288	5240	0.10%	0.012%
25	4.803	4.794	4.813	VV	137	1074	0.02%	0.003%
26	4.834	4.813	4.852	VV	325	4035	0.08%	0.009%
27	4.865	4.852	4.882	VV	426	4439	0.09%	0.010%
28	4.897	4.882	4.911	VV	234	2811	0.06%	0.007%
29	4.929	4.911	4.963	VV	409	5720	0.11%	0.013%
30	4.973	4.963	5.028	VV	117	3542	0.07%	0.008%
31	5.032	5.028	5.046	VV	91	779	0.02%	0.002%

32	5.058	5.046	5.107	VV	129	3715	0.07%	0.009%
33	5.117	5.107	5.185	VV	175	3677	0.07%	0.009%
34	5.225	5.185	5.247	VV	110	1953	0.04%	0.005%
35	5.265	5.247	5.295	PV	105	1915	0.04%	0.004%
36	5.350	5.295	5.383	VV	927	14680	0.29%	0.034%
37	5.409	5.383	5.425	VV	228	3680	0.07%	0.009%
38	5.434	5.425	5.449	VV	173	1961	0.04%	0.005%
39	5.461	5.449	5.506	VV	122	2267	0.05%	0.005%
40	5.514	5.506	5.550	VV	82	1243	0.02%	0.003%
41	5.591	5.550	5.676	VV	144	6425	0.13%	0.015%
42	5.701	5.676	5.742	VV	95	2156	0.04%	0.005%
43	5.787	5.742	5.812	VV	438	7114	0.14%	0.017%
44	5.828	5.812	5.878	VV	374	6573	0.13%	0.015%
45	5.893	5.878	5.909	VV	137	1375	0.03%	0.003%
46	5.919	5.909	5.938	VV	66	808	0.02%	0.002%
47	5.977	5.938	6.025	VV	222	4626	0.09%	0.011%
48	6.093	6.025	6.116	PV	200	4678	0.09%	0.011%
49	6.139	6.116	6.167	VV	103	2131	0.04%	0.005%
50	6.177	6.167	6.215	VV	153	2424	0.05%	0.006%
51	6.221	6.215	6.240	VV	58	786	0.02%	0.002%
52	6.272	6.240	6.288	PV	152	1909	0.04%	0.004%
53	6.324	6.288	6.342	VV	159	2571	0.05%	0.006%
54	6.372	6.342	6.402	VV	287	6863	0.14%	0.016%
55	6.421	6.402	6.447	VV	352	5086	0.10%	0.012%
56	6.468	6.447	6.509	VV	433	6930	0.14%	0.016%
57	6.532	6.509	6.581	VV	485	8181	0.16%	0.019%
58	6.605	6.581	6.638	VV	180	4865	0.10%	0.011%
59	6.648	6.638	6.677	VV	208	2840	0.06%	0.007%
60	6.709	6.677	6.732	VV	219	4583	0.09%	0.011%
61	6.749	6.732	6.763	VV	176	2795	0.06%	0.007%
62	6.773	6.763	6.793	VV	147	2208	0.04%	0.005%
63	6.824	6.793	6.890	VV	5217	60180	1.21%	0.140%
64	6.913	6.890	6.933	VV	261	4242	0.08%	0.010%
65	6.948	6.933	6.965	VV	169	2928	0.06%	0.007%
66	6.980	6.965	6.999	VV	588	6889	0.14%	0.016%
67	7.015	6.999	7.038	VV	229	3143	0.06%	0.007%
68	7.054	7.038	7.080	VV	252	3160	0.06%	0.007%
69	7.107	7.080	7.134	VV	114	2452	0.05%	0.006%
70	7.162	7.134	7.192	PV	145	2007	0.04%	0.005%
71	7.225	7.192	7.268	VV	106	2377	0.05%	0.006%
72	7.283	7.268	7.315	PV	212	3211	0.06%	0.007%
73	7.339	7.315	7.351	VV	397	4882	0.10%	0.011%
74	7.362	7.351	7.379	VV	305	4463	0.09%	0.010%
75	7.400	7.379	7.430	VV	391	7229	0.14%	0.017%
76	7.465	7.430	7.495	VV	371	9229	0.18%	0.021%
77	7.507	7.495	7.527	VV	230	2646	0.05%	0.006%
78	7.548	7.527	7.589	PV	367	6374	0.13%	0.015%
79	7.633	7.589	7.671	VV	673	11208	0.22%	0.026%

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80	7.689	7.671	7.713	VV	167	3452	0.07%	0.008%
81	7.744	7.713	7.758	VV	248	4871	0.10%	0.011%
82	7.776	7.758	7.821	VV	498	8450	0.17%	0.020%
83	7.835	7.821	7.856	VV	193	2830	0.06%	0.007%
84	7.870	7.856	7.892	VV	211	2800	0.06%	0.007%
85	7.914	7.892	7.932	VV	183	2703	0.05%	0.006%
86	7.957	7.932	7.982	VV	275	5198	0.10%	0.012%
87	8.015	7.982	8.024	VV	119	2395	0.05%	0.006%
88	8.044	8.024	8.060	VV	400	5367	0.11%	0.012%
89	8.069	8.060	8.089	VV	211	3276	0.07%	0.008%
90	8.117	8.089	8.176	VV	293	10516	0.21%	0.024%
91	8.215	8.176	8.258	VV	347	12556	0.25%	0.029%
92	8.265	8.258	8.288	VV	339	4703	0.09%	0.011%
93	8.308	8.288	8.330	VV	332	5807	0.12%	0.014%
94	8.357	8.330	8.392	VV	577	12911	0.26%	0.030%
95	8.413	8.392	8.464	VV	1442	24962	0.50%	0.058%
96	8.483	8.464	8.499	VV	548	8216	0.16%	0.019%
97	8.513	8.499	8.551	VV	379	9210	0.18%	0.021%
98	8.571	8.551	8.593	VV	703	11138	0.22%	0.026%
99	8.606	8.593	8.621	VV	341	5057	0.10%	0.012%
100	8.665	8.621	8.705	VV	3921	62066	1.24%	0.145%
101	8.732	8.705	8.749	VV	576	13077	0.26%	0.030%
102	8.784	8.749	8.802	VV	568	15745	0.32%	0.037%
103	8.815	8.802	8.846	VV	504	10889	0.22%	0.025%
104	8.859	8.846	8.880	VV	365	5875	0.12%	0.014%
105	8.902	8.880	8.934	VV	345	7746	0.16%	0.018%
106	8.985	8.934	9.109	VV	5733	179738	3.60%	0.419%
107	9.122	9.109	9.148	VV	941	21199	0.42%	0.049%
108	9.159	9.148	9.186	VV	841	17131	0.34%	0.040%
109	9.209	9.186	9.256	VV	1101	31148	0.62%	0.073%
110	9.264	9.256	9.312	VV	493	13209	0.26%	0.031%
111	9.329	9.312	9.349	VV	409	8113	0.16%	0.019%
112	9.396	9.349	9.419	VV	1167	27363	0.55%	0.064%
113	9.431	9.419	9.453	VV	613	10470	0.21%	0.024%
114	9.466	9.453	9.474	VV	449	5563	0.11%	0.013%
115	9.514	9.474	9.571	VV	1010	33456	0.67%	0.078%
116	9.587	9.571	9.613	VV	445	7083	0.14%	0.016%
117	9.633	9.613	9.671	VV	271	7090	0.14%	0.017%
118	9.684	9.671	9.703	VV	232	3498	0.07%	0.008%
119	9.741	9.703	9.774	VV	329	10082	0.20%	0.023%
120	9.801	9.774	9.847	VV	413	9705	0.19%	0.023%
121	9.870	9.847	9.908	VV	522	11066	0.22%	0.026%
122	9.923	9.908	9.942	VV	274	4415	0.09%	0.010%
123	9.949	9.942	9.959	VV	247	2347	0.05%	0.005%
124	9.965	9.959	9.987	VV	235	3357	0.07%	0.008%
125	10.012	9.987	10.042	VV	375	8150	0.16%	0.019%
126	10.062	10.042	10.101	VV	850	11425	0.23%	0.027%

127	10.148	10.101	10.178	VV	253	6552	0.13%	0.015%
128	10.203	10.178	10.258	VV	589	11829	0.24%	0.028%
129	10.285	10.258	10.339	VV	2220	31923	0.64%	0.074%
130	10.360	10.339	10.369	VV	201	2460	0.05%	0.006%
131	10.388	10.369	10.488	VV	191	5615	0.11%	0.013%
132	10.512	10.488	10.521	PV	77	704	0.01%	0.002%
133	10.563	10.521	10.584	VV	120	2058	0.04%	0.005%
134	10.613	10.584	10.623	VV	148	2111	0.04%	0.005%
135	10.637	10.623	10.649	VV	142	1551	0.03%	0.004%
136	10.678	10.649	10.704	VV	306	6220	0.12%	0.014%
137	10.727	10.704	10.752	VV	265	5118	0.10%	0.012%
138	10.762	10.752	10.811	VV	211	4513	0.09%	0.011%
139	10.838	10.811	10.860	VV	186	3138	0.06%	0.007%
140	10.869	10.860	10.875	VV	80	528	0.01%	0.001%
141	10.893	10.875	10.905	VV	113	1515	0.03%	0.004%
142	10.927	10.905	10.945	VV	213	3979	0.08%	0.009%
143	10.960	10.945	10.998	VV	236	5950	0.12%	0.014%
144	11.029	10.998	11.071	VV	662	12669	0.25%	0.030%
145	11.135	11.071	11.144	VV	355	10582	0.21%	0.025%
146	11.155	11.144	11.194	VV	394	7092	0.14%	0.017%
147	11.219	11.194	11.231	VV	164	2745	0.05%	0.006%
148	11.248	11.231	11.271	VV	194	3066	0.06%	0.007%
149	11.288	11.271	11.327	VV	155	3118	0.06%	0.007%
150	11.358	11.327	11.387	VV	189	4487	0.09%	0.010%
151	11.404	11.387	11.416	VV	266	3426	0.07%	0.008%
152	11.429	11.416	11.440	VV	271	3069	0.06%	0.007%
153	11.465	11.440	11.476	VV	237	4310	0.09%	0.010%
154	11.487	11.476	11.508	VV	204	2567	0.05%	0.006%
155	11.541	11.508	11.560	VV	220	3602	0.07%	0.008%
156	11.573	11.560	11.586	VV	88	1158	0.02%	0.003%
157	11.594	11.586	11.618	VV	97	1095	0.02%	0.003%
158	11.669	11.618	11.705	PV	1584	23459	0.47%	0.055%
159	11.738	11.705	11.802	VV	3452	50783	1.02%	0.118%
160	11.833	11.802	11.877	VV	335	6584	0.13%	0.015%
161	11.976	11.877	12.003	VV	103	4088	0.08%	0.010%
162	12.056	12.003	12.085	VV	218	6268	0.13%	0.015%
163	12.095	12.085	12.108	VV	218	2363	0.05%	0.006%
164	12.130	12.108	12.182	VV	290	8471	0.17%	0.020%
165	12.197	12.182	12.248	VV	373	7930	0.16%	0.018%
166	12.256	12.248	12.278	VV	74	1220	0.02%	0.003%
167	12.359	12.278	12.372	PV	194	7109	0.14%	0.017%
168	12.410	12.372	12.447	VV	595	13668	0.27%	0.032%
169	12.458	12.447	12.481	VV	182	3045	0.06%	0.007%
170	12.511	12.481	12.536	VV	185	4426	0.09%	0.010%
171	12.555	12.536	12.598	VV	174	4618	0.09%	0.011%
172	12.631	12.598	12.653	VV	405	7507	0.15%	0.017%
173	12.705	12.653	12.725	VV	418	11494	0.23%	0.027%
174	12.746	12.725	12.763	VV	433	6731	0.13%	0.016%

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175	12.781	12.763	12.815	VV	570	10426	0.21%	0.024%
176	12.879	12.815	12.894	VV	516	14393	0.29%	0.034%
177	12.915	12.894	12.952	VV	844	13925	0.28%	0.032%
178	12.997	12.952	13.031	VV	1966	29023	0.58%	0.068%
179	13.057	13.031	13.110	VV	4032	54324	1.09%	0.127%
180	13.141	13.110	13.165	VV	355	7028	0.14%	0.016%
181	13.175	13.165	13.242	VV	282	4939	0.10%	0.012%
182	13.268	13.242	13.285	PV	100	1673	0.03%	0.004%
183	13.349	13.285	13.366	VV	110	3659	0.07%	0.009%
184	13.462	13.366	13.470	PV	203	5176	0.10%	0.012%
185	13.511	13.470	13.652	VV	400389	4991054	100.00%	11.623%
186	13.673	13.652	13.775	VV	1066	35528	0.71%	0.083%
187	13.781	13.775	13.845	VV	203	4611	0.09%	0.011%
188	13.892	13.845	13.920	VV	103	2739	0.05%	0.006%
189	13.948	13.920	13.992	VBA	156	2978	0.06%	0.007%
190	14.019	13.992	14.032	BV	96	452	0.01%	0.001%
191	14.118	14.032	14.149	PV	172	4317	0.09%	0.010%
192	14.213	14.149	14.238	PV	1473	21560	0.43%	0.050%
193	14.265	14.238	14.303	VV	3004	42866	0.86%	0.100%
194	14.314	14.303	14.332	VV	168	2230	0.04%	0.005%
195	14.416	14.332	14.450	VV	130	4696	0.09%	0.011%
196	14.504	14.450	14.516	VV	217	5578	0.11%	0.013%
197	14.589	14.516	14.598	VV	201	7238	0.15%	0.017%
198	14.708	14.598	14.765	VV	1005	35431	0.71%	0.083%
199	14.784	14.765	14.800	VV	425	7025	0.14%	0.016%
200	14.833	14.800	14.862	VV	1179	22583	0.45%	0.053%
201	14.900	14.862	14.908	VV	470	10803	0.22%	0.025%
202	14.967	14.908	14.995	VV	566	23663	0.47%	0.055%
203	15.162	14.995	15.173	VV	565	49418	0.99%	0.115%
204	15.188	15.173	15.202	VV	535	8666	0.17%	0.020%
205	15.224	15.202	15.261	VV	577	18147	0.36%	0.042%
206	15.332	15.261	15.352	VV	1530	42611	0.85%	0.099%
207	15.377	15.352	15.446	VV	3099	76193	1.53%	0.177%
208	15.470	15.446	15.495	VV	706	20083	0.40%	0.047%
209	15.546	15.495	15.565	VV	757	29562	0.59%	0.069%
210	15.573	15.565	15.606	VV	730	16838	0.34%	0.039%
211	15.642	15.606	15.668	VV	758	26019	0.52%	0.061%
212	15.716	15.668	15.730	VV	827	26960	0.54%	0.063%
213	15.746	15.730	15.764	VV	818	15380	0.31%	0.036%
214	15.793	15.764	15.800	VV	780	16330	0.33%	0.038%
215	15.902	15.800	15.943	VV	1985	86179	1.73%	0.201%
216	15.958	15.943	15.972	VV	921	14952	0.30%	0.035%
217	15.998	15.972	16.018	VV	840	21572	0.43%	0.050%
218	16.036	16.018	16.059	VV	916	19660	0.39%	0.046%
219	16.082	16.059	16.093	VV	832	16067	0.32%	0.037%
220	16.100	16.093	16.108	VV	753	6765	0.14%	0.016%
221	16.126	16.108	16.152	VV	750	18095	0.36%	0.042%

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222	16.170	16.152	16.192	VV	683	14918	0.30%	0.035%
223	16.221	16.192	16.246	VV	649	19738	0.40%	0.046%
224	16.271	16.246	16.306	VV	559	18182	0.36%	0.042%
225	16.314	16.306	16.340	VV	432	8186	0.16%	0.019%
226	16.366	16.340	16.385	VV	977	17932	0.36%	0.042%
227	16.406	16.385	16.525	VV	2250	45114	0.90%	0.105%
228	16.626	16.525	16.637	PV	100	2873	0.06%	0.007%
229	16.894	16.637	16.922	PV	1750	40686	0.82%	0.095%
230	17.363	16.922	17.412	VV	3729	427456	8.56%	0.995%
231	17.506	17.412	17.517	VV	1959	128057	2.57%	0.298%
232	17.706	17.517	17.722	VV	2201	237442	4.76%	0.553%
233	17.818	17.722	17.865	VV	4391	207354	4.15%	0.483%
234	17.892	17.865	17.921	VV	2015	62846	1.26%	0.146%
235	17.945	17.921	17.955	VV	1807	35177	0.70%	0.082%
236	17.994	17.955	18.004	VV	1550	45668	0.92%	0.106%
237	18.027	18.004	18.054	VV	1394	38654	0.77%	0.090%
238	18.075	18.054	18.089	VV	988	20014	0.40%	0.047%
239	18.117	18.089	18.130	VV	833	19577	0.39%	0.046%
240	18.174	18.130	18.188	VV	619	20377	0.41%	0.047%
241	18.256	18.188	18.288	VV	1985	40964	0.82%	0.095%
242	18.681	18.288	18.712	PV	5924	493669	9.89%	1.150%
243	18.786	18.712	18.796	VV	3314	161701	3.24%	0.377%
244	18.830	18.796	18.845	VV	3279	91609	1.84%	0.213%
245	18.962	18.845	18.970	VV	4427	264534	5.30%	0.616%
246	19.031	18.970	19.042	VV	4589	195613	3.92%	0.456%
247	19.095	19.042	19.137	VV	5191	228552	4.58%	0.532%
248	19.274	19.137	19.288	VV	5278	345713	6.93%	0.805%
249	19.317	19.288	19.332	VV	5377	134318	2.69%	0.313%
250	19.362	19.332	19.388	VV	6312	190242	3.81%	0.443%
251	19.401	19.388	19.445	VV	4892	145060	2.91%	0.338%
252	19.497	19.445	19.511	VV	5751	183520	3.68%	0.427%
253	19.616	19.511	19.635	VV	8009	528466	10.59%	1.231%
254	19.670	19.635	19.682	VV	9227	240959	4.83%	0.561%
255	19.691	19.682	19.700	VV	8576	94079	1.88%	0.219%
256	19.716	19.700	19.748	VV	9035	245411	4.92%	0.572%
257	19.795	19.748	19.811	VV	9588	330684	6.63%	0.770%
258	19.883	19.811	19.904	VV	13741	635492	12.73%	1.480%
259	19.927	19.904	19.958	VV	12723	396703	7.95%	0.924%
260	19.978	19.958	20.009	VV	12226	346056	6.93%	0.806%
261	20.208	20.009	20.225	VV	22472	2154753	43.17%	5.018%
262	20.248	20.225	20.275	VV	21716	623900	12.50%	1.453%
263	20.297	20.275	20.317	VV	20475	499546	10.01%	1.163%
264	20.346	20.317	20.370	VV	19976	597301	11.97%	1.391%
265	20.403	20.370	20.414	VV	21007	521307	10.44%	1.214%
266	20.435	20.414	20.445	VV	21919	399237	8.00%	0.930%
267	20.489	20.445	20.499	VV	25011	745025	14.93%	1.735%
268	20.549	20.499	20.581	VV	28430	1339633	26.84%	3.120%
269	20.622	20.581	20.639	VV	31499	1018427	20.41%	2.372%

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270	20.665	20.639	20.675	VV	34153	709849	14.22%	1.653%
271	20.718	20.675	20.812	VV	36884	2599866	52.09%	6.055%
272	20.880	20.812	20.894	VV	31334	1329727	26.64%	3.097%
273	20.916	20.894	20.938	VV	32428	831101	16.65%	1.936%
274	20.991	20.938	21.085	VV	34127	2726370	54.63%	6.349%
275	21.107	21.085	21.118	VV	27147	522853	10.48%	1.218%
276	21.135	21.118	21.145	VV	25729	409639	8.21%	0.954%
277	21.171	21.145	21.185	VV	26750	625000	12.52%	1.456%
278	21.221	21.185	21.247	VV	28105	989294	19.82%	2.304%
279	21.269	21.247	21.278	VV	29199	524660	10.51%	1.222%
280	21.328	21.278	21.376	VV	29605	1668987	33.44%	3.887%
281	21.395	21.376	21.421	VV	26564	689981	13.82%	1.607%
282	21.435	21.421	21.451	VV	23655	403289	8.08%	0.939%
283	21.519	21.451	21.618	VV	26501	2102038	42.12%	4.895%
284	21.644	21.618	21.653	VV	15963	314455	6.30%	0.732%
285	21.676	21.653	21.707	VV	16633	510020	10.22%	1.188%
286	21.776	21.707	21.877	VV	18593	1603550	32.13%	3.734%
287	21.891	21.877	21.903	VV	10983	163329	3.27%	0.380%
288	21.910	21.903	21.920	VV	10171	99789	2.00%	0.232%
289	21.966	21.920	21.986	VV	10515	394569	7.91%	0.919%
290	22.038	21.986	22.094	VV	11974	598357	11.99%	1.393%
291	22.111	22.094	22.186	VV	6340	192671	3.86%	0.449%
292	22.272	22.186	22.290	VV	7354	250130	5.01%	0.583%
293	22.345	22.290	22.362	VV	9947	350419	7.02%	0.816%
294	22.377	22.362	22.473	VV	8848	268624	5.38%	0.626%
295	22.498	22.473	22.508	PV	728	8408	0.17%	0.020%
296	22.577	22.508	22.602	PBA	2632	162426	3.25%	0.378%
			Sum of corrected areas:			42939749		

Aliphatic EPH 092425.M Fri Sep 26 03:57:52 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3176
Lab Sample ID:	Q3176-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/25/25 19:22	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.46	J	1	0.20	1.43	mg/kg	FG016655.D
Aliphatic C12-C16	Aliphatic C12-C16	1.82		1	0.16	0.95	mg/kg	FG016655.D
Aliphatic C16-C21	Aliphatic C16-C21	0.71	J	1	0.19	1.43	mg/kg	FG016655.D
Aliphatic C21-C28	Aliphatic C21-C28	1.37	J	1	0.76	1.90	mg/kg	FG016655.D
Aliphatic C28-C40	Aliphatic C28-C40	30.0		1	1.68	2.85	mg/kg	FG016655.D
Aromatic C10-C12	Aromatic C10-C12	0.25	J	1	0.17	0.95	mg/kg	FF016464.D
Aromatic C12-C16	Aromatic C12-C16	0.58	J	1	0.33	1.43	mg/kg	FF016464.D
Aromatic C16-C21	Aromatic C16-C21	2.40		1	0.57	2.38	mg/kg	FF016464.D
Aromatic C21-C36	Aromatic C21-C36	2.60	J	1	1.70	3.80	mg/kg	FF016464.D
Total AliphaticEPH	Total AliphaticEPH	34.4			2.98	8.56	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.84	J		2.77	8.56	mg/kg	
Total EPH	Total EPH	40.2			5.75	17.1	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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3176
Lab Sample ID:	Q3176-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70
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
FF016464.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.25	J	0.17	0.95	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.58	J	0.33	1.43	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.40		0.57	2.38	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.60	J	1.70	3.80	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.2		40 - 140	102%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.9		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.0		40 - 140	74%	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:	Q3176-03	Acq On:	26 Sep 2025 09:41
Client Sample ID:	EME-TS14-02	Operator:	YP\AJ
Data file:	FF016464.D	Misc:	
Instrument:	FID_F	ALS Vial:	92
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.398	381508	2.662	200	ug/ml
Aromatic C12-C16	6.399	9.102	892041	6.144	300	ug/ml
Aromatic C16-C21	9.103	13.422	3646195	25.29	500	ug/ml
Aromatic C21-C36	13.423	18.876	3575121	27.326	800	ug/ml
Aromatic EPH	4.521	18.876	8494865	61.422		ug/ml
ortho-Terphenyl (SURR)	11.977	11.977	5637601	36.98		ug/ml
2-Bromonaphthalene (SURR)	8.033	8.033	6415274	51.21		ug/ml
2-Flurobiphenyl (SURR)	8.909	8.909	3705467	43.94		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016464.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:41
Operator : YP\AJ
Sample : Q3176-03
Misc :
ALS Vial : 92 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 26 23:13:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 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...	8.033	6415274	51.213 ug/ml
Spiked Amount 50.000		Recovery = 102.43%	
6) S 2-Flurobiphenyl (SURR)	8.909	3705467	43.935 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 87.87%	
11) S ortho-Terphenyl (SURR)	11.977	5637601	36.980 ug/ml
Spiked Amount 50.000		Recovery = 73.96%	
Target Compounds			

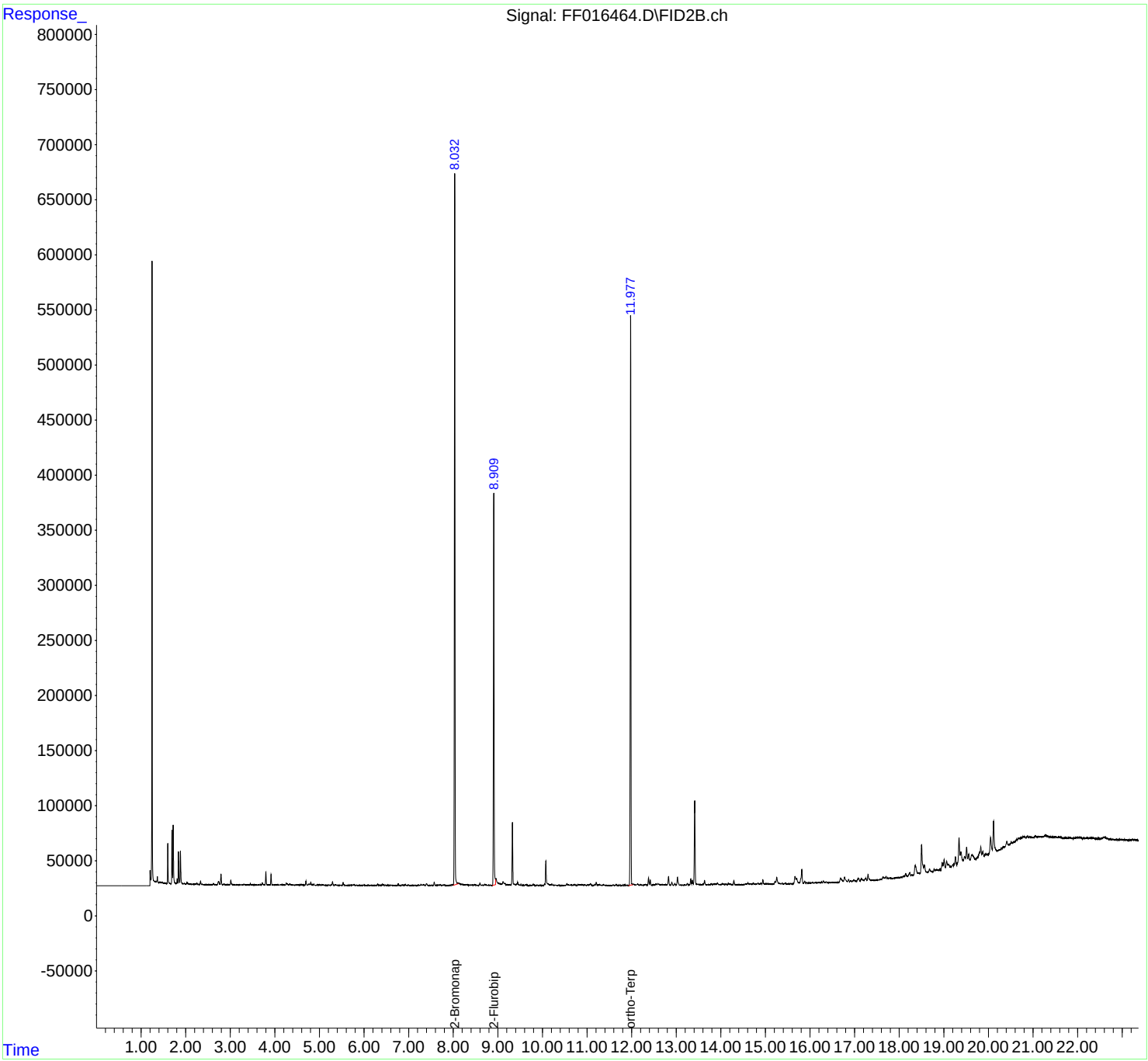
(f)=RT Delta > 1/2 Window (m)=manual int.

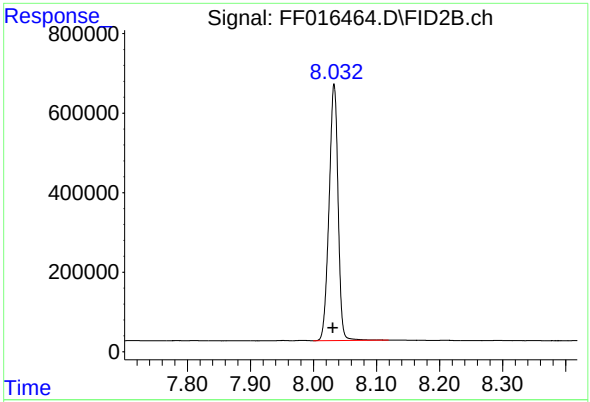
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016464.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:41
Operator : YP\AJ
Sample : Q3176-03
Misc :
ALS Vial : 92 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 26 23:13:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

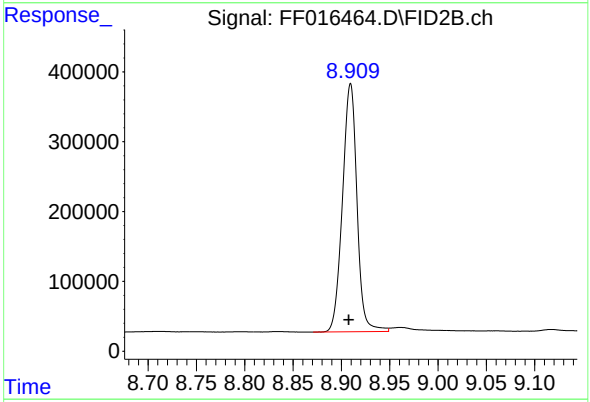




#4 2-Bromonaphthalene (SURR)

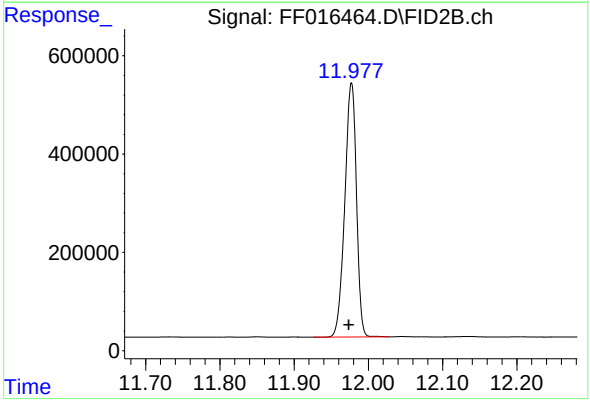
R.T.: 8.033 min
Delta R.T.: 0.002 min
Response: 6415274
Conc: 51.21 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.909 min
Delta R.T.: 0.002 min
Response: 3705467
Conc: 43.94 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.977 min
Delta R.T.: 0.004 min
Response: 5637601
Conc: 36.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016464.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:41
Sample : Q3176-03
Misc :
ALS Vial : 92 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.475	4.449	4.489	PV	408	5648	0.09%	0.023%
2	4.497	4.489	4.519	VV	278	3340	0.05%	0.014%
3	4.526	4.519	4.551	VV	135	1417	0.02%	0.006%
4	4.587	4.569	4.615	VV	794	10831	0.17%	0.044%
5	4.625	4.615	4.642	VV	391	4142	0.06%	0.017%
6	4.662	4.652	4.673	VV	231	1988	0.03%	0.008%
7	4.696	4.673	4.734	VV	3799	41957	0.65%	0.172%
8	4.751	4.734	4.763	VV	1157	11680	0.18%	0.048%
9	4.777	4.763	4.790	VV	1269	13491	0.21%	0.055%
10	4.806	4.790	4.825	VV	2946	30874	0.48%	0.127%
11	4.839	4.825	4.857	VV	777	8555	0.13%	0.035%
12	4.873	4.857	4.899	VV	1308	13332	0.21%	0.055%
13	4.950	4.930	4.984	VV	773	11286	0.17%	0.046%
14	5.000	4.984	5.038	VV	549	10194	0.16%	0.042%
15	5.053	5.038	5.070	VV	600	7783	0.12%	0.032%
16	5.085	5.070	5.120	VV	405	6699	0.10%	0.028%
17	5.140	5.120	5.150	VV	160	2142	0.03%	0.009%
18	5.210	5.184	5.221	PV	396	4962	0.08%	0.020%
19	5.227	5.221	5.246	VV	211	1796	0.03%	0.007%
20	5.266	5.246	5.273	VV	500	4718	0.07%	0.019%
21	5.293	5.273	5.334	VV	3411	40002	0.62%	0.164%
22	5.355	5.334	5.393	VV	777	11813	0.18%	0.049%
23	5.405	5.393	5.423	VV	255	3310	0.05%	0.014%
24	5.472	5.455	5.484	VV	187	2012	0.03%	0.008%
25	5.501	5.484	5.506	VV	232	2038	0.03%	0.008%

rteres

26	5.531	5.506	5.591	VV	2762	34205	0.53%	0.141%
27	5.610	5.602	5.622	VV	167	1572	0.02%	0.006%
28	5.626	5.622	5.650	VV	157	1492	0.02%	0.006%
29	5.659	5.650	5.682	VV	171	2406	0.04%	0.010%
30	5.692	5.682	5.713	VV	241	2739	0.04%	0.011%
31	5.732	5.713	5.749	VV	407	5558	0.09%	0.023%
32	5.776	5.749	5.794	VV	1138	14178	0.22%	0.058%
33	5.807	5.794	5.822	VV	293	3038	0.05%	0.012%
34	5.834	5.822	5.867	VV	291	3927	0.06%	0.016%
35	5.888	5.867	5.904	VV	197	3037	0.05%	0.012%
36	5.909	5.904	5.914	VV	191	1062	0.02%	0.004%
37	5.919	5.914	5.960	VV	237	4427	0.07%	0.018%
38	5.990	5.960	6.029	VV	385	6906	0.11%	0.028%
39	6.045	6.029	6.053	VV	213	2232	0.03%	0.009%
40	6.081	6.062	6.101	VV	286	4447	0.07%	0.018%
41	6.109	6.101	6.152	VV	220	3312	0.05%	0.014%
42	6.175	6.152	6.187	PV	208	2288	0.04%	0.009%
43	6.206	6.187	6.228	VV	267	4340	0.07%	0.018%
44	6.247	6.236	6.282	VV	249	4919	0.08%	0.020%
45	6.304	6.282	6.346	VV	1357	21611	0.33%	0.089%
46	6.364	6.346	6.392	VV	451	6790	0.11%	0.028%
47	6.412	6.392	6.440	VV	1418	18415	0.28%	0.076%
48	6.445	6.440	6.460	VV	243	2191	0.03%	0.009%
49	6.476	6.460	6.503	VV	628	8782	0.14%	0.036%
50	6.550	6.503	6.581	VV	383	9492	0.15%	0.039%
51	6.605	6.581	6.631	VV	561	8760	0.14%	0.036%
52	6.640	6.631	6.671	VV	226	3262	0.05%	0.013%
53	6.684	6.678	6.720	VV	247	2948	0.05%	0.012%
54	6.728	6.720	6.741	VV	123	1070	0.02%	0.004%
55	6.766	6.741	6.797	VV	1816	21561	0.33%	0.089%
56	6.821	6.797	6.837	VV	259	4388	0.07%	0.018%
57	6.853	6.837	6.871	VV	725	8090	0.13%	0.033%
58	6.890	6.871	6.902	VV	458	5205	0.08%	0.021%
59	6.920	6.902	6.940	VV	1147	13209	0.20%	0.054%
60	6.953	6.940	6.975	VV	351	3884	0.06%	0.016%
61	6.995	6.975	7.027	PV	718	8071	0.12%	0.033%
62	7.083	7.072	7.125	VV	444	4837	0.07%	0.020%
63	7.150	7.125	7.200	VV	425	7805	0.12%	0.032%
64	7.223	7.200	7.242	VV	769	8955	0.14%	0.037%
65	7.277	7.256	7.314	VV	942	19641	0.30%	0.081%
66	7.328	7.314	7.333	VV	755	6619	0.10%	0.027%
67	7.337	7.333	7.372	VV	716	9499	0.15%	0.039%
68	7.401	7.372	7.450	VV	1849	33693	0.52%	0.138%
69	7.455	7.450	7.474	VV	254	2742	0.04%	0.011%

rteres

70	7.492	7.474	7.508	VV	406	5732	0.09%	0.024%
71	7.514	7.508	7.533	VV	348	3559	0.06%	0.015%
72	7.538	7.533	7.548	VV	189	1312	0.02%	0.005%
73	7.573	7.548	7.610	VV	3113	37301	0.58%	0.153%
74	7.637	7.610	7.643	VV	504	6641	0.10%	0.027%
75	7.654	7.643	7.669	VV	487	5693	0.09%	0.023%
76	7.683	7.669	7.699	VV	541	7272	0.11%	0.030%
77	7.716	7.699	7.737	VV	767	10423	0.16%	0.043%
78	7.754	7.737	7.764	VV	412	4620	0.07%	0.019%
79	7.784	7.764	7.799	VV	546	7860	0.12%	0.032%
80	7.811	7.799	7.867	VV	620	10190	0.16%	0.042%
81	7.879	7.867	7.914	VV	242	4571	0.07%	0.019%
82	7.925	7.914	7.930	VV	263	1875	0.03%	0.008%
83	7.952	7.930	7.969	VV	936	12150	0.19%	0.050%
84	7.983	7.969	8.000	VV	1228	13916	0.22%	0.057%
85	8.033	8.000	8.097	VV	646216	6463727	100.00%	26.557%
86	8.101	8.097	8.119	VV	2338	28587	0.44%	0.117%
87	8.127	8.119	8.193	VV	1974	67018	1.04%	0.275%
88	8.210	8.193	8.234	VV	1577	26945	0.42%	0.111%
89	8.247	8.234	8.268	VV	847	14132	0.22%	0.058%
90	8.292	8.268	8.316	VV	1138	21340	0.33%	0.088%
91	8.324	8.316	8.336	VV	582	6385	0.10%	0.026%
92	8.348	8.336	8.374	VV	712	11837	0.18%	0.049%
93	8.379	8.374	8.407	VV	477	8200	0.13%	0.034%
94	8.419	8.407	8.439	VV	683	9148	0.14%	0.038%
95	8.467	8.439	8.480	VV	441	8752	0.14%	0.036%
96	8.505	8.480	8.546	VV	586	16213	0.25%	0.067%
97	8.548	8.546	8.558	VV	367	2322	0.04%	0.010%
98	8.599	8.558	8.624	VV	2380	35535	0.55%	0.146%
99	8.630	8.624	8.644	VV	469	4763	0.07%	0.020%
100	8.656	8.644	8.676	VV	782	9503	0.15%	0.039%
101	8.712	8.676	8.732	VV	1037	20412	0.32%	0.084%
102	8.750	8.732	8.774	VV	578	9359	0.14%	0.038%
103	8.798	8.774	8.819	VV	530	8056	0.12%	0.033%
104	8.835	8.819	8.873	VV	778	10402	0.16%	0.043%
105	8.909	8.873	8.949	VV	355598	3727801	57.67%	15.316%
106	8.961	8.949	9.046	VV	6684	191669	2.97%	0.787%
107	9.053	9.046	9.084	VV	1824	35229	0.55%	0.145%
108	9.117	9.084	9.150	VV	3745	90022	1.39%	0.370%
109	9.160	9.150	9.191	VV	2010	32895	0.51%	0.135%
110	9.206	9.191	9.236	VV	952	20375	0.32%	0.084%
111	9.254	9.236	9.274	VV	757	15303	0.24%	0.063%
112	9.327	9.274	9.354	VV	57422	609663	9.43%	2.505%

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113	9.364	9.354	9.377	VV	1538	18207	0.28%	0.075%
114	9.384	9.377	9.396	VV	1032	11027	0.17%	0.045%
115	9.444	9.396	9.470	VV	3138	70175	1.09%	0.288%
116	9.477	9.470	9.498	VV	804	9957	0.15%	0.041%
117	9.519	9.498	9.547	VV	1099	17200	0.27%	0.071%
118	9.567	9.547	9.595	VV	540	9566	0.15%	0.039%
119	9.614	9.595	9.636	VV	685	11423	0.18%	0.047%
120	9.653	9.636	9.689	VV	691	11859	0.18%	0.049%
121	9.712	9.689	9.719	VV	469	5284	0.08%	0.022%
122	9.731	9.719	9.744	VV	490	6083	0.09%	0.025%
123	9.756	9.744	9.770	VV	300	3705	0.06%	0.015%
124	9.796	9.770	9.839	VV	1434	23293	0.36%	0.096%
125	9.871	9.839	9.891	VV	607	10343	0.16%	0.042%
126	9.897	9.891	9.916	VV	297	3155	0.05%	0.013%
127	9.936	9.916	9.969	VV	646	9375	0.15%	0.039%
128	9.992	9.969	10.001	VV	333	4035	0.06%	0.017%
129	10.005	10.001	10.022	VV	229	1970	0.03%	0.008%
130	10.045	10.022	10.055	VV	1473	15442	0.24%	0.063%
131	10.076	10.055	10.188	VV	22598	326203	5.05%	1.340%
132	10.209	10.188	10.264	VV	1603	31072	0.48%	0.128%
133	10.289	10.264	10.304	VV	553	10445	0.16%	0.043%
134	10.311	10.304	10.344	VV	467	6985	0.11%	0.029%
135	10.372	10.344	10.414	VV	620	11726	0.18%	0.048%
136	10.440	10.414	10.473	PV	224	4931	0.08%	0.020%
137	10.488	10.473	10.504	VV	286	3229	0.05%	0.013%
138	10.550	10.504	10.573	VV	1894	31172	0.48%	0.128%
139	10.595	10.573	10.619	VV	665	14610	0.23%	0.060%
140	10.640	10.619	10.666	VV	806	14727	0.23%	0.061%
141	10.681	10.666	10.686	VV	452	4615	0.07%	0.019%
142	10.691	10.686	10.702	VV	468	4240	0.07%	0.017%
143	10.729	10.702	10.754	VV	1028	20207	0.31%	0.083%
144	10.764	10.754	10.779	VV	354	4043	0.06%	0.017%
145	10.800	10.779	10.826	VV	1165	22750	0.35%	0.093%
146	10.852	10.826	10.867	VV	890	16128	0.25%	0.066%
147	10.897	10.867	10.917	VV	759	17677	0.27%	0.073%
148	10.926	10.917	10.935	VV	531	5186	0.08%	0.021%
149	10.950	10.935	10.985	VV	749	15995	0.25%	0.066%
150	11.005	10.985	11.024	VV	872	12311	0.19%	0.051%
151	11.048	11.024	11.061	VV	1127	17275	0.27%	0.071%
152	11.080	11.061	11.126	VV	1841	32400	0.50%	0.133%
153	11.128	11.126	11.133	VV	326	1309	0.02%	0.005%
154	11.144	11.133	11.152	VV	359	3394	0.05%	0.014%
155	11.174	11.152	11.186	VV	958	12885	0.20%	0.053%

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156	11.205	11.186	11.246	VV	3053	45628	0.71%	0.187%
157	11.282	11.246	11.307	VV	833	20664	0.32%	0.085%
158	11.318	11.307	11.336	VV	456	6356	0.10%	0.026%
159	11.348	11.336	11.359	VV	446	5136	0.08%	0.021%
160	11.378	11.359	11.396	VV	835	12923	0.20%	0.053%
161	11.404	11.396	11.430	VV	379	5266	0.08%	0.022%
162	11.453	11.440	11.492	VV	217	3724	0.06%	0.015%
163	11.511	11.492	11.561	VV	229	3891	0.06%	0.016%
164	11.586	11.561	11.610	VV	665	8690	0.13%	0.036%
165	11.629	11.610	11.637	VV	389	4249	0.07%	0.017%
166	11.656	11.637	11.682	VV	1355	16001	0.25%	0.066%
167	11.704	11.682	11.714	VV	277	3275	0.05%	0.013%
168	11.731	11.714	11.765	VV	646	10391	0.16%	0.043%
169	11.813	11.797	11.832	VV	436	4767	0.07%	0.020%
170	11.851	11.832	11.874	VV	725	9619	0.15%	0.040%
171	11.900	11.874	11.932	VV	383	5856	0.09%	0.024%
172	11.977	11.932	12.007	VV	518009	5643757	87.31%	23.188%
173	12.012	12.007	12.031	VV	1733	18806	0.29%	0.077%
174	12.045	12.031	12.066	VV	1368	21676	0.34%	0.089%
175	12.070	12.066	12.096	VV	796	11418	0.18%	0.047%
176	12.137	12.096	12.171	VV	1345	36810	0.57%	0.151%
177	12.206	12.171	12.239	VV	831	19428	0.30%	0.080%
178	12.322	12.239	12.346	VV	998	31710	0.49%	0.130%
179	12.379	12.346	12.399	VV	6944	86355	1.34%	0.355%
180	12.418	12.399	12.447	VV	5038	59768	0.92%	0.246%
181	12.463	12.447	12.475	VV	465	6038	0.09%	0.025%
182	12.486	12.475	12.509	VV	566	8633	0.13%	0.035%
183	12.548	12.509	12.569	VV	1311	28448	0.44%	0.117%
184	12.582	12.569	12.641	VV	1597	42691	0.66%	0.175%
185	12.657	12.641	12.669	VV	688	9394	0.15%	0.039%
186	12.685	12.669	12.719	VV	726	17545	0.27%	0.072%
187	12.736	12.719	12.747	VV	577	8692	0.13%	0.036%
188	12.760	12.747	12.774	VV	666	8821	0.14%	0.036%
189	12.827	12.774	12.856	VV	7814	118644	1.84%	0.487%
190	12.863	12.856	12.876	VV	394	3882	0.06%	0.016%
191	12.902	12.876	12.937	VV	2739	41042	0.63%	0.169%
192	12.968	12.937	13.000	VV	1598	23968	0.37%	0.098%
193	13.028	13.000	13.094	VV	7362	114369	1.77%	0.470%
194	13.111	13.094	13.119	VV	150	1629	0.03%	0.007%
195	13.122	13.119	13.141	VV	139	1064	0.02%	0.004%
196	13.156	13.141	13.171	PV	147	1667	0.03%	0.007%
197	13.188	13.171	13.204	VV	287	3599	0.06%	0.015%
198	13.211	13.204	13.219	VV	282	2140	0.03%	0.009%
199	13.250	13.219	13.287	VV	1723	27995	0.43%	0.115%

200	13.297	13.287	13.303	VV	275	2071	0.03%	0.009%
201	13.326	13.303	13.344	VV	5851	68822	1.06%	0.283%
202	13.361	13.344	13.384	VV	4573	63931	0.99%	0.263%
203	13.415	13.384	13.484	VV	76586	932831	14.43%	3.833%
204	13.505	13.484	13.557	VV	645	21850	0.34%	0.090%
205	13.584	13.557	13.594	VV	722	11355	0.18%	0.047%
206	13.636	13.594	13.680	VV	4122	68300	1.06%	0.281%
207	13.700	13.680	13.726	VV	557	12115	0.19%	0.050%
208	13.743	13.726	13.758	VV	637	10295	0.16%	0.042%
209	13.786	13.758	13.819	VV	1022	25492	0.39%	0.105%
210	13.858	13.819	13.893	VV	1075	36145	0.56%	0.149%
211	13.925	13.893	13.949	VV	1955	36455	0.56%	0.150%
212	13.974	13.949	13.978	VV	489	7555	0.12%	0.031%
213	13.986	13.978	14.007	VV	511	6736	0.10%	0.028%
214	14.031	14.007	14.058	VV	1172	22251	0.34%	0.091%
215	14.064	14.058	14.088	VV	624	9045	0.14%	0.037%
216	14.116	14.088	14.142	VV	1100	18422	0.29%	0.076%
217	14.170	14.142	14.187	VV	1507	21467	0.33%	0.088%
218	14.196	14.187	14.257	VV	746	19236	0.30%	0.079%
219	14.292	14.257	14.352	VV	3716	53685	0.83%	0.221%
220	14.390	14.352	14.406	PV	297	5536	0.09%	0.023%
221	14.417	14.406	14.440	VV	247	3062	0.05%	0.013%
222	14.459	14.440	14.488	VV	249	3604	0.06%	0.015%
223	14.556	14.488	14.577	PV	990	19974	0.31%	0.082%
224	14.606	14.577	14.628	VV	1556	29871	0.46%	0.123%
225	14.659	14.628	14.709	VV	860	27693	0.43%	0.114%
226	14.730	14.709	14.762	VV	1652	24057	0.37%	0.099%
227	14.793	14.762	14.809	VV	598	9774	0.15%	0.040%
228	14.835	14.809	14.869	VV	1217	25277	0.39%	0.104%
229	14.899	14.869	14.917	VV	1366	23479	0.36%	0.096%
230	14.943	14.917	14.981	VV	4177	61813	0.96%	0.254%
231	14.991	14.981	15.004	VV	458	5300	0.08%	0.022%
232	15.018	15.004	15.033	VV	627	8163	0.13%	0.034%
233	15.050	15.033	15.072	VV	623	10742	0.17%	0.044%
234	15.089	15.072	15.107	VV	470	7028	0.11%	0.029%
235	15.112	15.107	15.117	VV	281	1410	0.02%	0.006%
236	15.122	15.117	15.159	VV	215	2564	0.04%	0.011%
237	15.212	15.180	15.228	PV	2321	34554	0.53%	0.142%
238	15.253	15.228	15.299	VV	6216	122198	1.89%	0.502%
239	15.319	15.299	15.351	VV	862	14614	0.23%	0.060%
240	15.374	15.351	15.419	VV	1087	15956	0.25%	0.066%
241	15.445	15.419	15.486	VV	1053	14872	0.23%	0.061%
242	15.521	15.502	15.535	VV	231	2873	0.04%	0.012%

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243	15.557	15.535	15.564	VV	235	3351	0.05%	0.014%
244	15.574	15.564	15.606	VV	212	4022	0.06%	0.017%
245	15.620	15.606	15.624	PV	169	1252	0.02%	0.005%
246	15.666	15.624	15.691	VV	6371	142880	2.21%	0.587%
247	15.701	15.691	15.767	VV	4562	95215	1.47%	0.391%
248	15.815	15.767	15.843	VV	12951	231151	3.58%	0.950%
249	15.849	15.843	15.854	VV	492	3011	0.05%	0.012%
250	15.878	15.854	15.911	VV	1613	32266	0.50%	0.133%
251	15.923	15.911	15.953	VV	677	12241	0.19%	0.050%
252	15.975	15.953	15.990	VV	409	7898	0.12%	0.032%
253	16.025	15.990	16.034	VV	503	9940	0.15%	0.041%
254	16.051	16.034	16.092	VV	545	14705	0.23%	0.060%
255	16.121	16.092	16.137	VV	486	10200	0.16%	0.042%
256	16.158	16.137	16.186	VV	544	12688	0.20%	0.052%
257	16.207	16.186	16.239	VV	505	12804	0.20%	0.053%
258	16.258	16.239	16.280	VV	945	14287	0.22%	0.059%
259	16.301	16.280	16.326	VV	1969	28623	0.44%	0.118%
260	16.361	16.326	16.387	VV	1034	19829	0.31%	0.081%
261	16.391	16.387	16.401	VV	213	1328	0.02%	0.005%
262	16.415	16.401	16.441	VV	285	3445	0.05%	0.014%
263	16.494	16.441	16.519	VV	260	6375	0.10%	0.026%
264	16.528	16.519	16.549	VV	144	1629	0.03%	0.007%
265	16.557	16.549	16.579	VV	130	1044	0.02%	0.004%
266	16.595	16.579	16.604	PV	249	1977	0.03%	0.008%
267	16.683	16.616	16.747	VV	3741	116074	1.80%	0.477%
268	16.775	16.747	16.837	VV	4668	109754	1.70%	0.451%
269	16.865	16.837	16.891	VV	2284	35635	0.55%	0.146%
270	16.912	16.891	16.937	VV	867	15435	0.24%	0.063%
271	16.946	16.937	16.950	VV	454	2991	0.05%	0.012%
272	16.985	16.950	17.026	VV	1788	35129	0.54%	0.144%
273	17.043	17.026	17.048	VV	310	3512	0.05%	0.014%
274	17.076	17.048	17.082	VV	2591	32031	0.50%	0.132%
275	17.093	17.082	17.122	VV	2578	36106	0.56%	0.148%
276	17.153	17.122	17.205	VV	2812	61185	0.95%	0.251%
277	17.251	17.205	17.276	VV	2261	58563	0.91%	0.241%
278	17.302	17.276	17.322	VV	5901	82516	1.28%	0.339%
279	17.331	17.322	17.356	VV	1674	20899	0.32%	0.086%
280	17.360	17.356	17.397	VV	388	6470	0.10%	0.027%
281	17.412	17.397	17.434	VV	284	4359	0.07%	0.018%
282	17.531	17.434	17.546	PV	191	6749	0.10%	0.028%
283	17.577	17.546	17.606	VV	431	7803	0.12%	0.032%
284	17.643	17.606	17.681	VV	2016	60370	0.93%	0.248%
285	17.707	17.681	17.729	VV	2663	43037	0.67%	0.177%

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286	17.748	17.729	17.769	VV	986	15254	0.24%	0.063%
287	17.792	17.769	17.811	VV	756	14094	0.22%	0.058%
288	17.817	17.811	17.844	VV	511	4338	0.07%	0.018%
289	17.883	17.844	17.907	PV	324	5809	0.09%	0.024%
290	17.931	17.907	17.956	VV	378	7336	0.11%	0.030%
291	17.976	17.956	17.984	VV	291	3820	0.06%	0.016%
292	17.999	17.984	18.017	VV	300	3442	0.05%	0.014%
293	18.116	18.017	18.120	PV	612	18130	0.28%	0.074%
294	18.147	18.120	18.191	VV	2860	51182	0.79%	0.210%
295	18.234	18.191	18.256	PV	2950	58747	0.91%	0.241%
296	18.273	18.256	18.308	VV	869	15747	0.24%	0.065%
297	18.358	18.308	18.416	VV	8921	252864	3.91%	1.039%
298	18.434	18.416	18.453	VV	1765	30410	0.47%	0.125%
299	18.501	18.453	18.548	VV	26399	523750	8.10%	2.152%
300	18.566	18.548	18.640	VV	7741	172232	2.66%	0.708%
301	18.682	18.640	18.711	VV	3100	68091	1.05%	0.280%
302	18.718	18.711	18.756	VV	1081	15621	0.24%	0.064%
303	18.782	18.756	18.801	PV	2081	28362	0.44%	0.117%
304	18.826	18.801	18.851	VBA	705	20295	0.31%	0.083%

Sum of corrected areas: 24339144

Aromatic EPH 092425.M Fri Sep 26 23:33:38 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3176
Lab Sample ID:	Q3176-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	70
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
FG016655.D	1	09/25/25	09/25/25	PB169823

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.46	J	0.20	1.43	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.82		0.16	0.95	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.71	J	0.19	1.43	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.37	J	0.76	1.90	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		30.0		1.68	2.85	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		53.6		40 - 140	107%	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:	Q3176-03	Acq On:	25 Sep 2025 19:22
Client Sample ID:	EME-TS14-02	Operator:	YP\AJ
Data file:	FG016655.D	Misc:	
Instrument:	FID_G	ALS Vial:	38
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	556757	4.82	300	ug/ml
Aliphatic C12-C16	6.921	10.379	2316257	19.204	200	ug/ml
Aliphatic C16-C21	10.380	13.768	963634	7.453	300	ug/ml
Aliphatic C21-C28	13.769	17.453	1851537	14.371	400	ug/ml
Aliphatic C28-C40	17.454	22.488	31984697	315.372	600	ug/ml
Aliphatic EPH	3.279	22.488	37672882	361.22		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	6047130	53.57		ug/ml
Aliphatic C9-C28	3.279	17.453	5688185	45.848	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016655.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 19:22
Operator : YP\AJ
Sample : Q3176-03
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 26 02:06:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.511	6047130	53.575 ug/ml
Spiked Amount 50.000		Recovery = 107.15%	
Target Compounds			

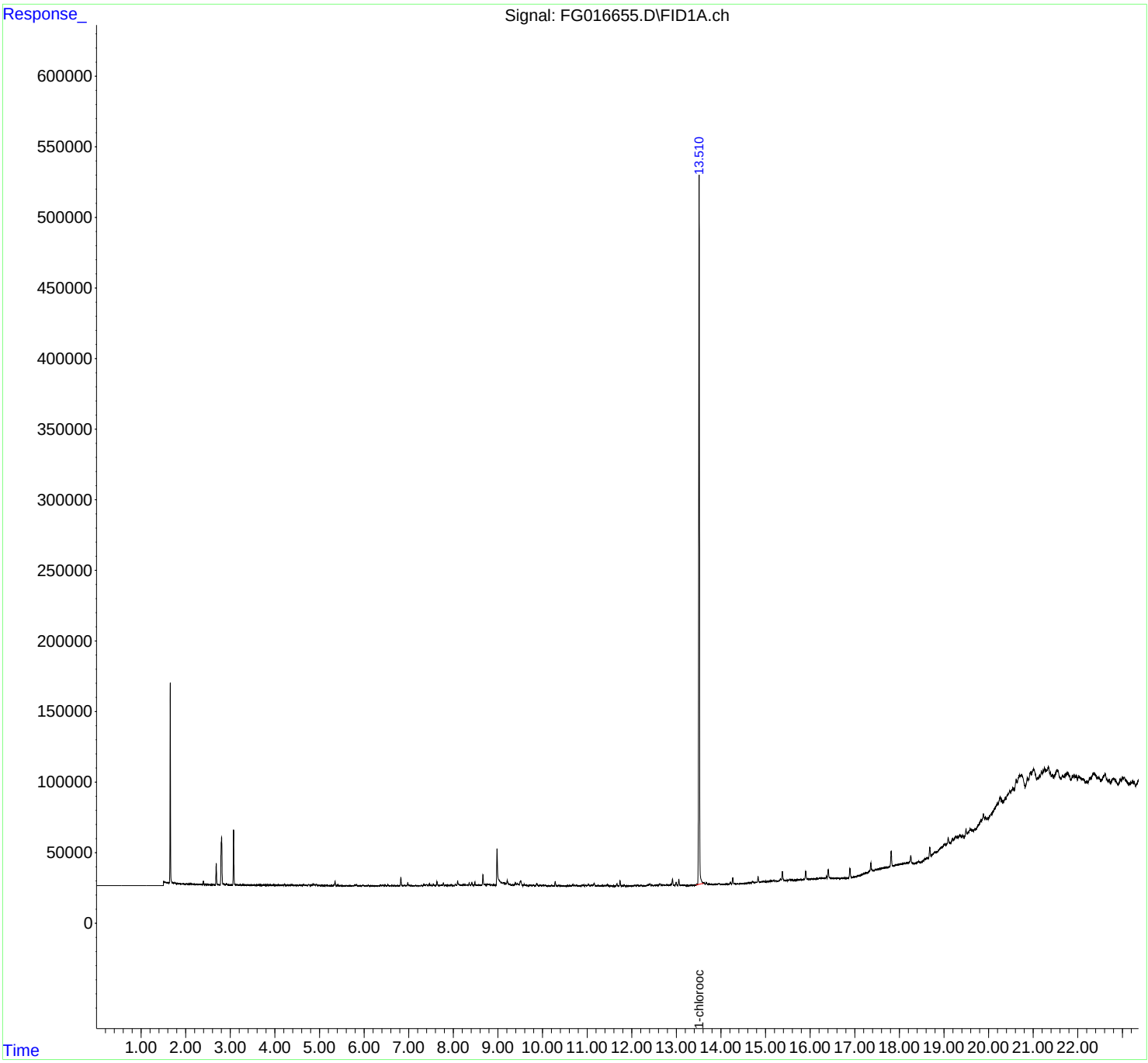
(f)=RT Delta > 1/2 Window (m)=manual int.

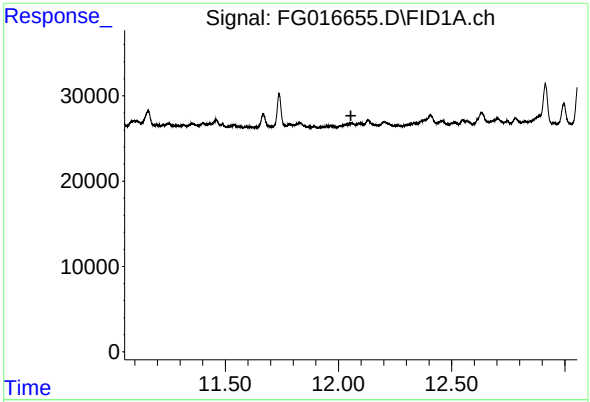
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016655.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 19:22
Operator : YP\AJ
Sample : Q3176-03
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
EME-TS14-02

Integration File: autoint1.e
Quant Time: Sep 26 02:06:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

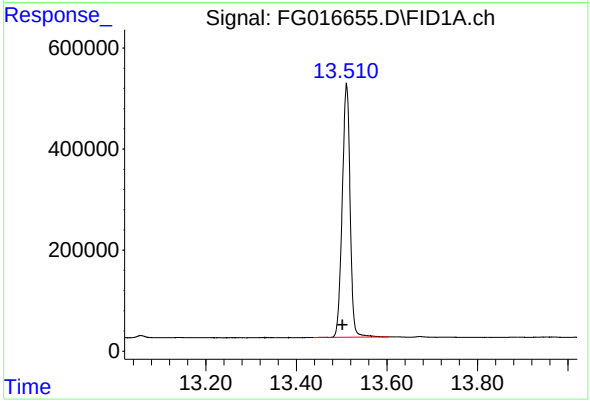




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
EME-TS14-02



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min
Delta R.T.: 0.009 min
Response: 6047130
Conc: 53.57 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016655.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 19:22
Sample : Q3176-03
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.242	3.222	3.254	BV	58	806	0.01%	0.002%
2	3.271	3.254	3.322	VV	175	3978	0.06%	0.009%
3	3.331	3.322	3.354	VV	95	1339	0.02%	0.003%
4	3.382	3.354	3.484	PV	269	6508	0.11%	0.015%
5	3.500	3.484	3.545	VV	211	3724	0.06%	0.009%
6	3.563	3.545	3.585	VV	112	1801	0.03%	0.004%
7	3.604	3.585	3.618	VV	146	2188	0.04%	0.005%
8	3.627	3.618	3.662	VV	179	2791	0.05%	0.006%
9	3.674	3.662	3.684	VV	124	1048	0.02%	0.002%
10	3.734	3.684	3.758	VV	211	6040	0.10%	0.014%
11	3.773	3.758	3.815	VV	225	5037	0.08%	0.012%
12	3.831	3.815	3.855	VV	210	3734	0.06%	0.009%
13	3.915	3.855	3.948	VV	221	7177	0.12%	0.016%
14	3.972	3.948	4.014	VV	243	5294	0.09%	0.012%
15	4.023	4.014	4.055	VV	143	2312	0.04%	0.005%
16	4.072	4.055	4.160	VV	219	8291	0.14%	0.019%
17	4.181	4.160	4.198	VV	475	5960	0.10%	0.014%
18	4.215	4.198	4.271	VV	637	10717	0.18%	0.024%
19	4.290	4.271	4.335	VV	335	5769	0.09%	0.013%
20	4.387	4.335	4.414	VV	599	13320	0.22%	0.030%
21	4.446	4.414	4.481	VV	147	3645	0.06%	0.008%
22	4.497	4.481	4.512	VV	109	1344	0.02%	0.003%
23	4.523	4.512	4.534	VV	120	1188	0.02%	0.003%
24	4.555	4.534	4.617	VV	309	8483	0.14%	0.019%
25	4.643	4.617	4.667	VV	945	11679	0.19%	0.027%
26	4.683	4.667	4.705	VV	265	3667	0.06%	0.008%
27	4.722	4.705	4.735	VV	135	1899	0.03%	0.004%
28	4.756	4.735	4.792	PV	998	14424	0.24%	0.033%
29	4.802	4.792	4.808	VV	134	838	0.01%	0.002%
30	4.833	4.808	4.848	VV	776	10037	0.16%	0.023%
31	4.865	4.848	4.882	VV	1565	17111	0.28%	0.039%

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32	4.896	4.882	4.912	VV	741	8657	0.14%	0.020%
33	4.929	4.912	4.972	VV	1282	17550	0.29%	0.040%
34	4.984	4.972	5.002	VV	222	3297	0.05%	0.008%
35	5.007	5.002	5.023	VV	191	2046	0.03%	0.005%
36	5.061	5.023	5.123	VV	352	11353	0.19%	0.026%
37	5.155	5.123	5.209	VV	252	8333	0.14%	0.019%
38	5.218	5.209	5.248	VV	119	2034	0.03%	0.005%
39	5.263	5.248	5.297	VV	287	4283	0.07%	0.010%
40	5.349	5.297	5.379	VV	3261	43769	0.71%	0.100%
41	5.409	5.379	5.446	VV	663	11563	0.19%	0.026%
42	5.467	5.446	5.508	VV	304	4767	0.08%	0.011%
43	5.530	5.508	5.544	PV	163	1862	0.03%	0.004%
44	5.562	5.544	5.579	VV	271	3771	0.06%	0.009%
45	5.592	5.579	5.648	VV	193	5876	0.10%	0.013%
46	5.666	5.648	5.682	VV	169	2195	0.04%	0.005%
47	5.697	5.682	5.711	VV	179	1984	0.03%	0.005%
48	5.726	5.711	5.738	VV	113	1309	0.02%	0.003%
49	5.752	5.738	5.767	VV	151	1782	0.03%	0.004%
50	5.787	5.767	5.815	VV	845	14481	0.24%	0.033%
51	5.831	5.815	5.872	VV	1017	12749	0.21%	0.029%
52	5.892	5.872	5.924	VV	315	4614	0.08%	0.011%
53	5.975	5.924	6.010	VV	621	13054	0.21%	0.030%
54	6.018	6.010	6.034	VV	79	868	0.01%	0.002%
55	6.052	6.034	6.071	VV	188	2969	0.05%	0.007%
56	6.098	6.071	6.135	VV	557	9275	0.15%	0.021%
57	6.156	6.135	6.171	VV	231	2851	0.05%	0.007%
58	6.198	6.171	6.244	VV	252	5667	0.09%	0.013%
59	6.269	6.244	6.290	VV	258	2805	0.05%	0.006%
60	6.324	6.290	6.340	PV	246	4155	0.07%	0.009%
61	6.373	6.340	6.400	VV	707	14507	0.24%	0.033%
62	6.422	6.400	6.444	VV	836	11803	0.19%	0.027%
63	6.468	6.444	6.501	VV	1234	15582	0.25%	0.036%
64	6.532	6.501	6.582	VV	1069	18047	0.29%	0.041%
65	6.608	6.582	6.633	VV	382	9061	0.15%	0.021%
66	6.649	6.633	6.680	VV	401	6788	0.11%	0.015%
67	6.702	6.680	6.732	VV	444	9100	0.15%	0.021%
68	6.748	6.732	6.768	VV	388	5653	0.09%	0.013%
69	6.824	6.768	6.894	VV	6081	78891	1.29%	0.180%
70	6.912	6.894	6.932	VV	746	10041	0.16%	0.023%
71	6.948	6.932	6.962	VV	437	6158	0.10%	0.014%
72	6.979	6.962	7.004	VV	2438	29181	0.48%	0.067%
73	7.016	7.004	7.036	VV	560	7171	0.12%	0.016%
74	7.053	7.036	7.077	VV	711	9204	0.15%	0.021%
75	7.107	7.077	7.131	VV	335	6776	0.11%	0.015%
76	7.160	7.131	7.185	VV	552	9813	0.16%	0.022%
77	7.196	7.185	7.207	VV	273	3035	0.05%	0.007%
78	7.227	7.207	7.261	VV	330	6493	0.11%	0.015%
79	7.283	7.261	7.315	VV	838	12799	0.21%	0.029%

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80	7.338	7.315	7.374	VV	1325	29918	0.49%	0.068%
81	7.401	7.374	7.429	VV	1242	25334	0.41%	0.058%
82	7.466	7.429	7.489	VV	1388	29839	0.49%	0.068%
83	7.505	7.489	7.527	VV	866	11037	0.18%	0.025%
84	7.549	7.527	7.591	VV	1654	26748	0.44%	0.061%
85	7.633	7.591	7.669	VV	3216	49298	0.80%	0.113%
86	7.695	7.669	7.707	VV	638	11084	0.18%	0.025%
87	7.740	7.707	7.755	VV	860	19222	0.31%	0.044%
88	7.777	7.755	7.805	VV	2382	32843	0.54%	0.075%
89	7.841	7.805	7.856	VV	641	14827	0.24%	0.034%
90	7.871	7.856	7.888	VV	881	11485	0.19%	0.026%
91	7.903	7.888	7.927	VV	594	11805	0.19%	0.027%
92	7.954	7.927	7.982	VV	1174	22550	0.37%	0.051%
93	7.992	7.982	8.019	VV	460	7847	0.13%	0.018%
94	8.044	8.019	8.063	VV	1486	21283	0.35%	0.049%
95	8.097	8.063	8.179	VV	3694	84800	1.38%	0.194%
96	8.215	8.179	8.229	VV	1163	23222	0.38%	0.053%
97	8.241	8.229	8.254	VV	1151	14430	0.24%	0.033%
98	8.267	8.254	8.285	VV	1097	14841	0.24%	0.034%
99	8.309	8.285	8.329	VV	1185	20614	0.34%	0.047%
100	8.355	8.329	8.384	VV	2156	36717	0.60%	0.084%
101	8.413	8.384	8.441	VV	2371	43850	0.72%	0.100%
102	8.450	8.441	8.462	VV	784	8850	0.14%	0.020%
103	8.483	8.462	8.505	VV	2778	37577	0.61%	0.086%
104	8.537	8.505	8.553	VV	830	20011	0.33%	0.046%
105	8.571	8.553	8.594	VV	1317	21317	0.35%	0.049%
106	8.619	8.594	8.631	VV	746	15497	0.25%	0.035%
107	8.664	8.631	8.698	VV	8064	114563	1.87%	0.262%
108	8.713	8.698	8.742	VV	1290	26155	0.43%	0.060%
109	8.780	8.742	8.798	VV	1389	38588	0.63%	0.088%
110	8.815	8.798	8.843	VV	1257	28443	0.46%	0.065%
111	8.859	8.843	8.885	VV	1119	21488	0.35%	0.049%
112	8.902	8.885	8.934	VV	1165	23731	0.39%	0.054%
113	8.981	8.934	9.105	VV	26277	552574	9.02%	1.261%
114	9.126	9.105	9.147	VV	2424	56527	0.92%	0.129%
115	9.161	9.147	9.188	VV	2108	44354	0.72%	0.101%
116	9.209	9.188	9.249	VV	4213	87377	1.43%	0.199%
117	9.263	9.249	9.307	VV	1372	37977	0.62%	0.087%
118	9.328	9.307	9.346	VV	1109	21400	0.35%	0.049%
119	9.392	9.346	9.413	VV	2464	58620	0.96%	0.134%
120	9.433	9.413	9.471	VV	1951	50746	0.83%	0.116%
121	9.513	9.471	9.564	VV	3858	107809	1.76%	0.246%
122	9.587	9.564	9.615	VV	1411	26802	0.44%	0.061%
123	9.636	9.615	9.670	VV	952	19720	0.32%	0.045%
124	9.689	9.670	9.702	VV	454	7645	0.12%	0.017%
125	9.719	9.702	9.768	VV	616	19893	0.32%	0.045%
126	9.802	9.768	9.844	VV	862	24931	0.41%	0.057%

127	9.870	9.844	9.908	VV	1838	35173	0.57%	0.080%
128	9.921	9.908	9.935	VV	510	7281	0.12%	0.017%
129	9.959	9.935	9.985	VV	705	15307	0.25%	0.035%
130	10.008	9.985	10.045	VV	1055	19941	0.33%	0.046%
131	10.062	10.045	10.110	VV	1000	17414	0.28%	0.040%
132	10.145	10.110	10.175	VV	325	8362	0.14%	0.019%
133	10.204	10.175	10.227	VV	747	11971	0.20%	0.027%
134	10.244	10.227	10.256	VV	382	5758	0.09%	0.013%
135	10.284	10.256	10.331	VV	3318	46267	0.76%	0.106%
136	10.358	10.331	10.428	VV	596	21964	0.36%	0.050%
137	10.435	10.428	10.452	VV	266	3209	0.05%	0.007%
138	10.458	10.452	10.480	VV	293	2744	0.04%	0.006%
139	10.499	10.480	10.518	PV	102	1484	0.02%	0.003%
140	10.564	10.518	10.580	VV	403	6588	0.11%	0.015%
141	10.608	10.580	10.623	VV	606	9299	0.15%	0.021%
142	10.633	10.623	10.646	VV	390	4514	0.07%	0.010%
143	10.679	10.646	10.700	VV	1155	21052	0.34%	0.048%
144	10.721	10.700	10.740	VV	760	13347	0.22%	0.030%
145	10.767	10.740	10.809	VV	635	16212	0.26%	0.037%
146	10.839	10.809	10.862	VV	399	8139	0.13%	0.019%
147	10.891	10.862	10.904	VV	694	10371	0.17%	0.024%
148	10.928	10.904	10.943	VV	646	12100	0.20%	0.028%
149	10.967	10.943	10.994	VV	741	16731	0.27%	0.038%
150	11.029	10.994	11.066	VV	1533	32024	0.52%	0.073%
151	11.107	11.066	11.128	VV	835	24425	0.40%	0.056%
152	11.159	11.128	11.186	VV	2042	36751	0.60%	0.084%
153	11.197	11.186	11.212	VV	293	4723	0.08%	0.011%
154	11.250	11.212	11.272	VV	522	12444	0.20%	0.028%
155	11.284	11.272	11.296	VV	310	3728	0.06%	0.009%
156	11.313	11.296	11.331	VV	318	5485	0.09%	0.013%
157	11.354	11.331	11.385	VV	497	10856	0.18%	0.025%
158	11.402	11.385	11.414	VV	566	7344	0.12%	0.017%
159	11.458	11.414	11.482	VV	977	22502	0.37%	0.051%
160	11.487	11.482	11.512	VV	418	4043	0.07%	0.009%
161	11.539	11.512	11.578	VV	292	6793	0.11%	0.016%
162	11.596	11.578	11.625	VV	128	2060	0.03%	0.005%
163	11.668	11.625	11.708	VV	1659	23891	0.39%	0.055%
164	11.738	11.708	11.766	VV	3978	49642	0.81%	0.113%
165	11.783	11.766	11.805	VV	399	7333	0.12%	0.017%
166	11.830	11.805	11.875	VV	554	12987	0.21%	0.030%
167	11.893	11.875	11.909	VV	148	1807	0.03%	0.004%
168	11.955	11.909	11.991	PV	203	5648	0.09%	0.013%
169	12.058	11.991	12.075	VV	522	14677	0.24%	0.034%
170	12.094	12.075	12.111	VV	462	8494	0.14%	0.019%
171	12.131	12.111	12.178	VV	820	17461	0.29%	0.040%
172	12.202	12.178	12.282	VV	595	16713	0.27%	0.038%
173	12.339	12.282	12.349	VV	417	10868	0.18%	0.025%
174	12.407	12.349	12.435	VV	1273	39857	0.65%	0.091%

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175	12.458	12.435	12.488	VV	673	14222	0.23%	0.032%
176	12.514	12.488	12.530	VV	405	8334	0.14%	0.019%
177	12.550	12.530	12.594	VV	731	18139	0.30%	0.041%
178	12.632	12.594	12.663	VV	1584	34638	0.57%	0.079%
179	12.702	12.663	12.732	VV	840	24501	0.40%	0.056%
180	12.745	12.732	12.761	VV	629	7773	0.13%	0.018%
181	12.782	12.761	12.807	VV	846	15397	0.25%	0.035%
182	12.914	12.807	12.967	VV	4797	104447	1.71%	0.238%
183	12.995	12.967	13.029	VV	2542	36057	0.59%	0.082%
184	13.057	13.029	13.112	VV	4426	60770	0.99%	0.139%
185	13.140	13.112	13.162	VV	471	10217	0.17%	0.023%
186	13.176	13.162	13.222	VV	317	6137	0.10%	0.014%
187	13.228	13.222	13.238	VV	79	574	0.01%	0.001%
188	13.278	13.238	13.290	VV	113	1768	0.03%	0.004%
189	13.329	13.290	13.367	PV	305	9408	0.15%	0.021%
190	13.385	13.367	13.400	VV	243	2807	0.05%	0.006%
191	13.458	13.400	13.472	VV	713	16249	0.27%	0.037%
192	13.511	13.472	13.612	VV	501452	6123974	100.00%	13.980%
193	13.622	13.612	13.651	VV	1555	27707	0.45%	0.063%
194	13.673	13.651	13.711	VV	1938	38389	0.63%	0.088%
195	13.728	13.711	13.768	VV	696	17754	0.29%	0.041%
196	13.788	13.768	13.855	VV	387	11105	0.18%	0.025%
197	13.879	13.855	13.914	VV	425	11133	0.18%	0.025%
198	13.952	13.914	13.992	VBA	646	20640	0.34%	0.047%
199	14.016	13.992	14.035	BV	229	2944	0.05%	0.007%
200	14.062	14.035	14.085	VV	204	3278	0.05%	0.007%
201	14.119	14.085	14.158	VV	337	7810	0.13%	0.018%
202	14.173	14.158	14.184	VV	255	2599	0.04%	0.006%
203	14.212	14.184	14.236	VV	1666	22163	0.36%	0.051%
204	14.265	14.236	14.322	VV	4677	64230	1.05%	0.147%
205	14.326	14.322	14.341	VV	148	1243	0.02%	0.003%
206	14.354	14.341	14.373	VV	108	1438	0.02%	0.003%
207	14.418	14.373	14.432	PV	104	1904	0.03%	0.004%
208	14.441	14.432	14.451	PV	143	995	0.02%	0.002%
209	14.506	14.451	14.525	VV	414	10498	0.17%	0.024%
210	14.600	14.525	14.615	VV	312	12461	0.20%	0.028%
211	14.706	14.615	14.748	VV	1520	44778	0.73%	0.102%
212	14.791	14.748	14.805	VV	629	17692	0.29%	0.040%
213	14.832	14.805	14.875	VV	4518	71368	1.17%	0.163%
214	14.966	14.875	14.998	VV	1023	56752	0.93%	0.130%
215	15.005	14.998	15.021	VV	724	9780	0.16%	0.022%
216	15.032	15.021	15.043	VV	765	9229	0.15%	0.021%
217	15.150	15.043	15.169	VV	1144	65192	1.06%	0.149%
218	15.187	15.169	15.208	VV	1152	22608	0.37%	0.052%
219	15.229	15.208	15.252	VV	952	20851	0.34%	0.048%
220	15.270	15.252	15.278	VV	702	11015	0.18%	0.025%
221	15.331	15.278	15.350	VV	2117	50707	0.83%	0.116%

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222	15.376	15.350	15.475	VV	7419	154420	2.52%	0.353%
223	15.544	15.475	15.568	VV	1437	49253	0.80%	0.112%
224	15.578	15.568	15.592	VV	796	11257	0.18%	0.026%
225	15.606	15.592	15.664	VV	764	30061	0.49%	0.069%
226	15.715	15.664	15.735	VV	883	31207	0.51%	0.071%
227	15.812	15.735	15.823	VV	803	40293	0.66%	0.092%
228	15.900	15.823	15.988	VV	6587	162581	2.65%	0.371%
229	16.046	15.988	16.061	VV	959	35681	0.58%	0.081%
230	16.224	16.061	16.241	VV	1189	100091	1.63%	0.228%
231	16.266	16.241	16.315	VV	1122	43816	0.72%	0.100%
232	16.365	16.315	16.380	VV	1806	42332	0.69%	0.097%
233	16.405	16.380	16.488	VV	7026	137213	2.24%	0.313%
234	16.498	16.488	16.532	VV	596	12214	0.20%	0.028%
235	16.606	16.532	16.663	VV	493	25321	0.41%	0.058%
236	16.715	16.663	16.742	VV	410	10683	0.17%	0.024%
237	16.781	16.742	16.815	VV	319	9197	0.15%	0.021%
238	16.851	16.815	16.861	PV	255	3014	0.05%	0.007%
239	16.892	16.861	16.947	VV	6671	93297	1.52%	0.213%
240	16.969	16.947	16.988	PV	294	3132	0.05%	0.007%
241	17.245	16.988	17.258	PV	1169	74422	1.22%	0.170%
242	17.362	17.258	17.412	VV	7495	227639	3.72%	0.520%
243	17.621	17.412	17.635	VV	2059	252091	4.12%	0.575%
244	17.659	17.635	17.672	VV	2036	43291	0.71%	0.099%
245	17.702	17.672	17.724	VV	2045	59345	0.97%	0.135%
246	17.816	17.724	17.876	VV	12762	323869	5.29%	0.739%
247	17.902	17.876	17.914	VV	2111	45904	0.75%	0.105%
248	17.947	17.914	17.972	VV	2223	71080	1.16%	0.162%
249	17.995	17.972	18.012	VV	2118	49041	0.80%	0.112%
250	18.030	18.012	18.048	VV	2166	45295	0.74%	0.103%
251	18.098	18.048	18.128	VV	2216	97763	1.60%	0.223%
252	18.167	18.128	18.182	VV	1977	60347	0.99%	0.138%
253	18.255	18.182	18.332	VV	6603	188653	3.08%	0.431%
254	18.353	18.332	18.361	VV	332	4745	0.08%	0.011%
255	18.438	18.361	18.479	VV	1167	37807	0.62%	0.086%
256	18.574	18.479	18.592	PV	1320	37464	0.61%	0.086%
257	18.616	18.592	18.634	VV	1250	25911	0.42%	0.059%
258	18.682	18.634	18.718	VV	7938	154276	2.52%	0.352%
259	18.816	18.718	18.834	VV	2659	160822	2.63%	0.367%
260	19.095	18.834	19.138	VV	8780	807466	13.19%	1.843%
261	19.185	19.138	19.220	VV	6663	266133	4.35%	0.608%
262	19.267	19.220	19.287	VV	7043	255293	4.17%	0.583%
263	19.305	19.287	19.321	VV	6365	128463	2.10%	0.293%
264	19.358	19.321	19.402	VV	6939	294732	4.81%	0.673%
265	19.421	19.402	19.454	VV	5726	159457	2.60%	0.364%
266	19.494	19.454	19.519	VV	8797	241933	3.95%	0.552%
267	19.590	19.519	19.616	VV	7623	386335	6.31%	0.882%
268	19.625	19.616	19.650	VV	6591	131463	2.15%	0.300%
269	19.830	19.650	19.844	VV	10989	881686	14.40%	2.013%

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270	19.883	19.844	19.912	VV	14499	483898	7.90%	1.105%
271	19.932	19.912	19.962	VV	11110	315869	5.16%	0.721%
272	19.982	19.962	19.992	VV	9951	177272	2.89%	0.405%
273	20.258	19.992	20.318	VV	21174	2923138	47.73%	6.673%
274	20.416	20.318	20.425	VV	20009	1157945	18.91%	2.643%
275	20.474	20.425	20.486	VV	22269	767249	12.53%	1.752%
276	20.545	20.486	20.566	VV	23067	1052139	17.18%	2.402%
277	20.620	20.566	20.644	VV	27742	1152101	18.81%	2.630%
278	20.692	20.644	20.707	VV	30175	1090223	17.80%	2.489%
279	20.731	20.707	20.818	VV	29719	1771876	28.93%	4.045%
280	20.866	20.818	20.878	VV	25500	812806	13.27%	1.856%
281	20.895	20.878	20.903	VV	24367	367181	6.00%	0.838%
282	20.943	20.903	20.962	VV	28494	954411	15.58%	2.179%
283	21.012	20.962	21.077	VV	29834	1875453	30.62%	4.281%
284	21.100	21.077	21.114	VV	22449	487382	7.96%	1.113%
285	21.147	21.114	21.159	VV	23253	602375	9.84%	1.375%
286	21.185	21.159	21.204	VV	25460	665764	10.87%	1.520%
287	21.226	21.204	21.236	VV	25990	491747	8.03%	1.123%
288	21.253	21.236	21.276	VV	27402	617627	10.09%	1.410%
289	21.296	21.276	21.306	VV	24837	449879	7.35%	1.027%
290	21.341	21.306	21.373	VV	26581	1006227	16.43%	2.297%
291	21.386	21.373	21.408	VV	21906	433482	7.08%	0.990%
292	21.425	21.408	21.456	VV	20049	551217	9.00%	1.258%
293	21.533	21.456	21.627	VV	21896	1900167	31.03%	4.338%
294	21.655	21.627	21.692	VV	15894	579755	9.47%	1.324%
295	21.713	21.692	21.727	VV	16210	329157	5.37%	0.751%
296	21.744	21.727	21.755	VV	16399	259491	4.24%	0.592%
297	21.770	21.755	21.849	VV	16323	782822	12.78%	1.787%
298	21.877	21.849	21.892	VV	12644	299584	4.89%	0.684%
299	21.913	21.892	21.936	VV	12710	314569	5.14%	0.718%
300	21.968	21.936	21.995	VV	11805	376487	6.15%	0.859%
301	22.023	21.995	22.097	VV	10403	541906	8.85%	1.237%
302	22.112	22.097	22.128	VV	7134	131166	2.14%	0.299%
303	22.137	22.128	22.163	VV	6457	114824	1.87%	0.262%
304	22.178	22.163	22.189	VV	4133	59751	0.98%	0.136%
305	22.208	22.189	22.219	VV	3980	65894	1.08%	0.150%
306	22.226	22.219	22.231	VV	3375	23444	0.38%	0.054%
307	22.287	22.231	22.300	VV	5517	195512	3.19%	0.446%
308	22.375	22.300	22.438	VV	7444	492954	8.05%	1.125%
309	22.455	22.438	22.470	VV	3243	55617	0.91%	0.127%
310	22.478	22.470	22.516	VV	2547	43671	0.71%	0.100%
311	22.532	22.516	22.540	VV	383	2411	0.04%	0.006%

Sum of corrected areas: 43804048

Aliphatic EPH 092425.M Fri Sep 26 03:58:17 2025

CALIBRATION SUMMARY

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

Inital Calibration Report for SequenceID : FC092325AL

AreaCount

Parameter Range	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.D	
Aliphatic C9-C12	36481160.000	19239018.000	8479995.000	3992675.000	2149948.000	
Aliphatic C12-C16	28357328.000	15079775.000	6707361.000	3059370.000	1701298.000	
Aliphatic C16-C21	46795550.000	25342238.000	11726291.000	5161303.000	3079937.000	
Aliphatic C21-C28	60973856.000	33612759.000	16071763.000	6886243.000	4223143.000	
Aliphatic C28-C40	63667378.000	35651403.000	17018918.000	7609564.000	4493535.000	
Aliphatic EPH	236275272.000	128925193.000	60004328.000	26709155.000	15647861.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	133523.2539996	6.773				
Aliphatic C12-C16	156673.343	7.634				
Aliphatic C16-C21	179548.8339996	11.281				
Aliphatic C21-C28	180941.7395	13.444				
Aliphatic C28-C40	128677.0379996	13.615				
Aliphatic EPH	152688.4519996	11.395				

Concentration

Parameter Range	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.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	FC069825.D	FC069826.D	FC069827.D	FC069828.D	FC069829.D	
Aliphatic C9-C12	121603.866666	128260.120000	141333.250000	133089.166666	143329.866666	
Aliphatic C12-C16	141786.640000	150797.750000	167684.025000	152968.500000	170129.800000	
Aliphatic C16-C21	155985.166666	168948.253333	195438.183333	172043.433333	205329.133333	

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

Inital Calibration Report for SequenceID : FC092325AL

Aliphatic C21-C28	152434.640000	168063.795000	200897.037500	172156.075000	211157.150000	
Aliphatic C28-C40	106112.296666	118838.010000	141824.316666	126826.066666	149784.500000	
Aliphatic EPH	131264.040000	143250.214444	166678.688888	148384.194444	173865.122222	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 23 12:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 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)	11.674	16923747	91.704 ug/ml
Spiked Amount	50.000		Recovery =	183.41%
12) S	1-chlorooctadecane (S...	13.106	13748454	88.747 ug/ml
Spiked Amount	50.000		Recovery =	177.49%
	Target Compounds			
1) T	n-Nonane (C9)	3.406	11645434	92.785 ug/ml
2) T	n-Decane (C10)	4.479	12074558	92.369 ug/ml
3) T	A~Naphthalene (C11.7)	6.074	13540149	92.730 ug/ml
4) T	n-Dodecane (C12)	6.502	12761168	92.355 ug/ml
5) T	A~2-methylnaphthalene...	7.133	13632065	93.327 ug/ml
6) T	n-Tetradecane (C14)	8.300	13524594	92.132 ug/ml
7) T	n-Hexadecane (C16)	9.904	14832734	91.181 ug/ml
8) T	n-Octadecane (C18)	11.351	15683416	89.705 ug/ml
10) T	n-Eicosane (C20)	12.660	15587488	88.548 ug/ml
11) T	n-Heneicosane (C21)	13.273	15524646	88.075 ug/ml
13) T	n-Docosane (C22)	13.860	15568351	87.640 ug/ml
14) T	n-Tetracosane (C24)	14.964	15594950	86.702 ug/ml
15) T	n-Hexacosane (C26)	15.985	15226883	85.849 ug/ml
16) T	n-Octacosane (C28)	16.936	14583672	84.893 ug/ml
17) T	n-Tricontane (C30)	17.824	14231420	84.228 ug/ml
18) T	n-Dotriacontane (C32)	18.656	13051710	83.851 ug/ml
19) T	n-Tetratriacontane (C34)	19.440	11470497	84.662 ug/ml
20) T	n-Hexatriacontane (C36)	20.178	9384313	85.995 ug/ml
21) T	n-Octatriacontane (C38)	20.942	8180165	88.372 ug/ml
22) T	n-Tetracontane (C40)	21.900	7349273	89.608 ug/ml

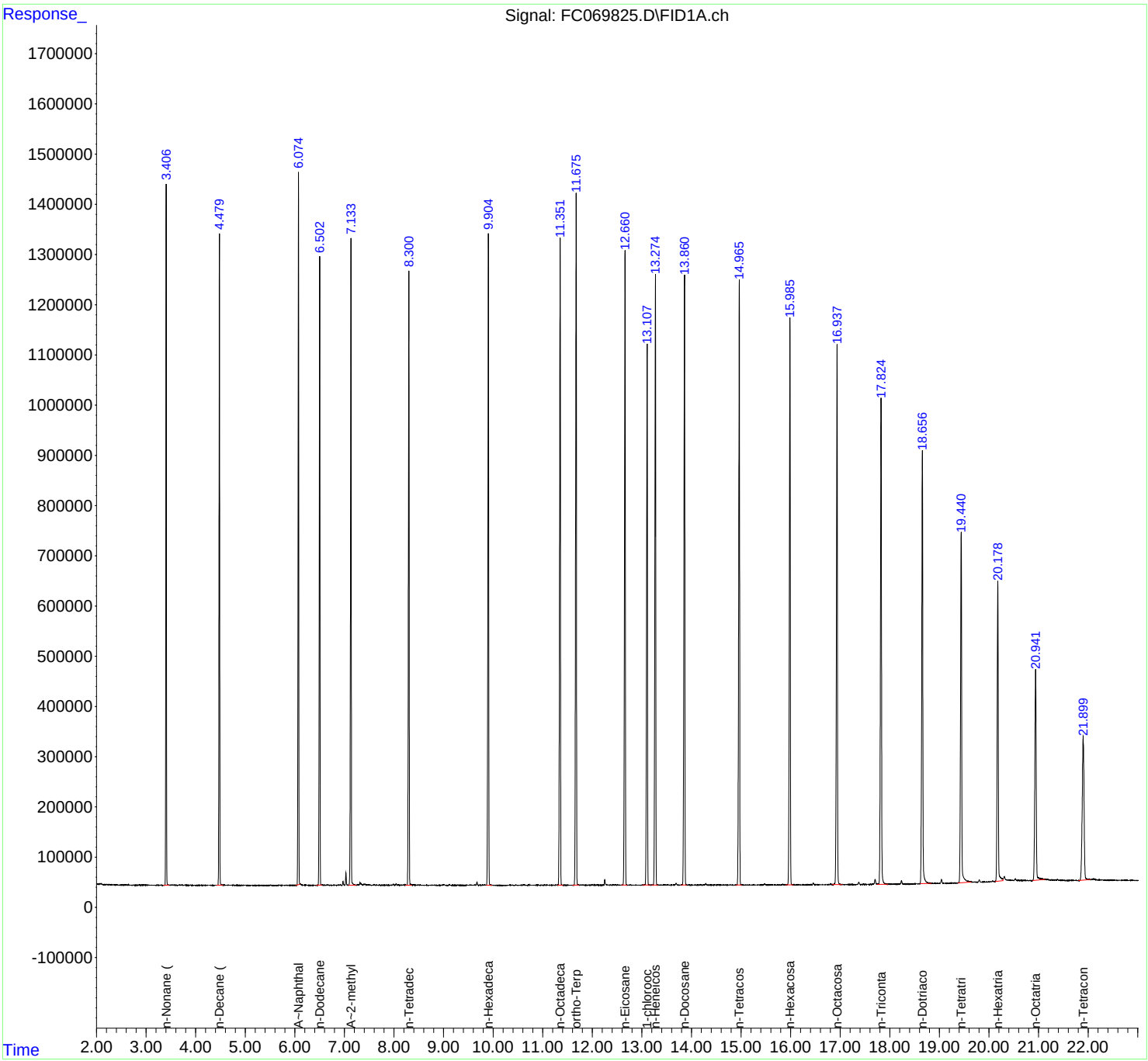
(f)=RT Delta > 1/2 Window (m)=manual int.

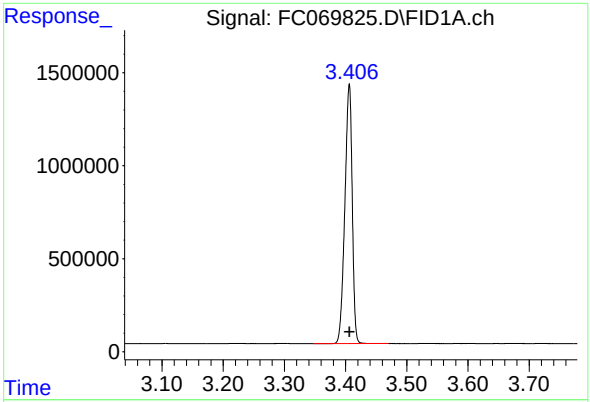
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 23 12:42:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

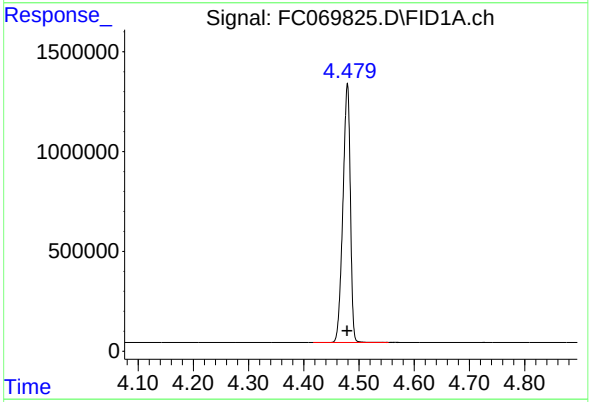




#1 n-Nonane (C9)

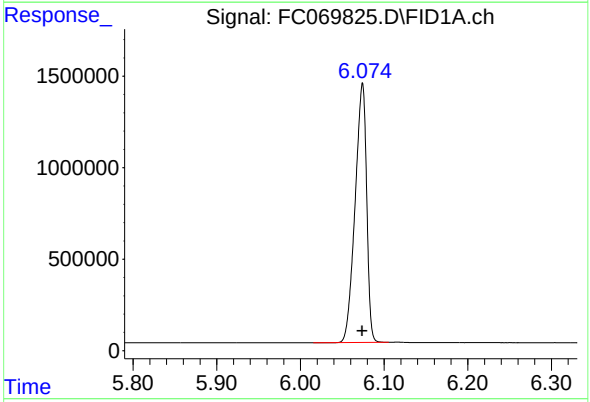
R.T.: 3.406 min
Delta R.T.: 0.000 min
Response: 11645434
Conc: 92.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



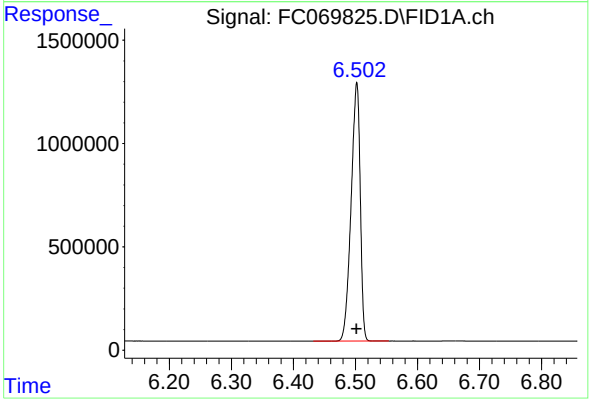
#2 n-Decane (C10)

R.T.: 4.479 min
Delta R.T.: 0.000 min
Response: 12074558
Conc: 92.37 ug/ml



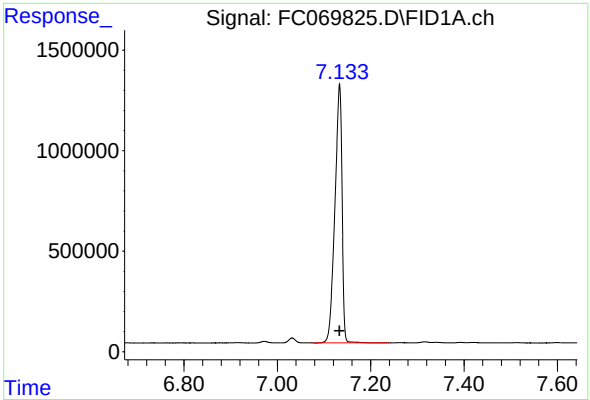
#3 A~Naphthalene (C11.7)

R.T.: 6.074 min
Delta R.T.: 0.000 min
Response: 13540149
Conc: 92.73 ug/ml



#4 n-Dodecane (C12)

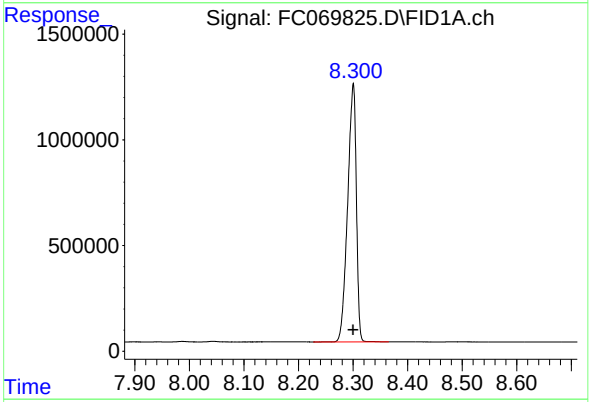
R.T.: 6.502 min
Delta R.T.: 0.000 min
Response: 12761168
Conc: 92.36 ug/ml



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

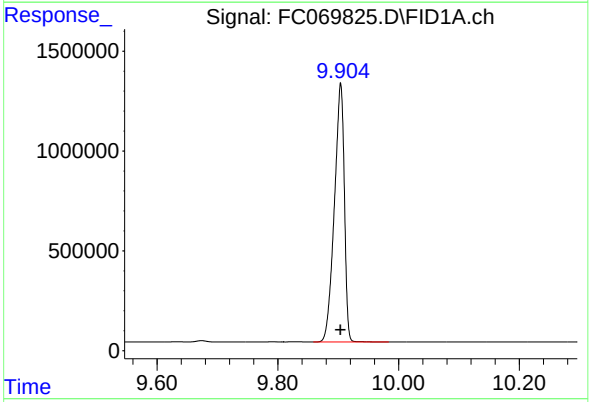
R.T.: 7.133 min
Delta R.T.: 0.000 min
Response: 13632065
Conc: 93.33 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



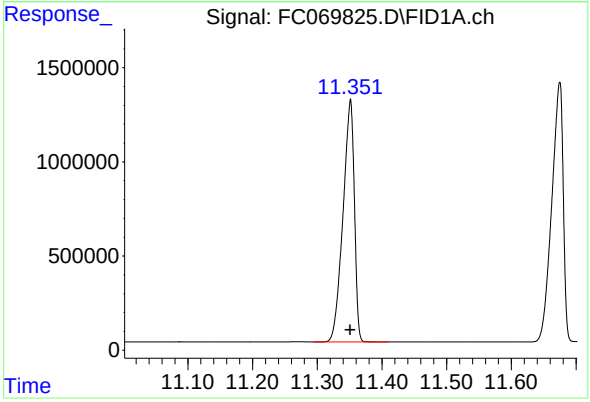
#6 n-Tetradecane (C14)

R.T.: 8.300 min
Delta R.T.: 0.000 min
Response: 13524594
Conc: 92.13 ug/ml



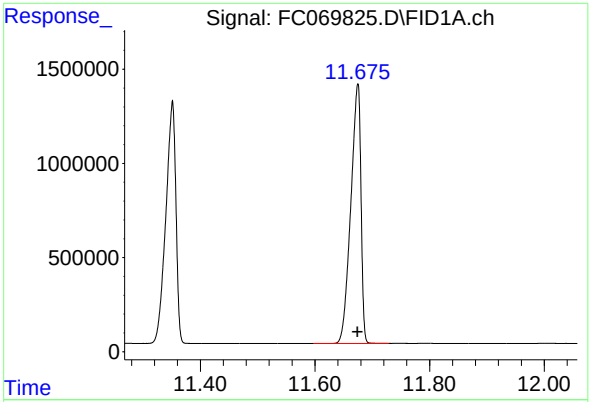
#7 n-Hexadecane (C16)

R.T.: 9.904 min
Delta R.T.: 0.000 min
Response: 14832734
Conc: 91.18 ug/ml



#8 n-Octadecane (C18)

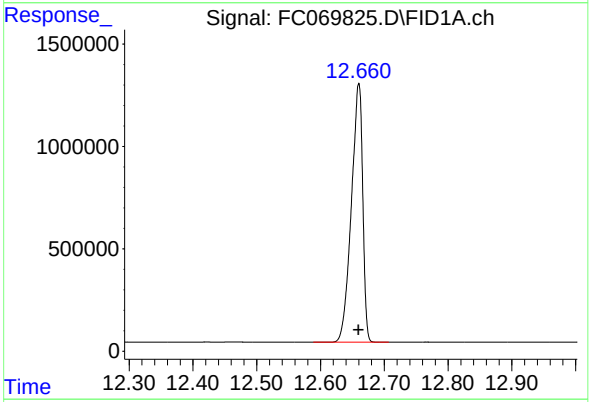
R.T.: 11.351 min
Delta R.T.: 0.000 min
Response: 15683416
Conc: 89.70 ug/ml



#9 ortho-Terphenyl (SURR)

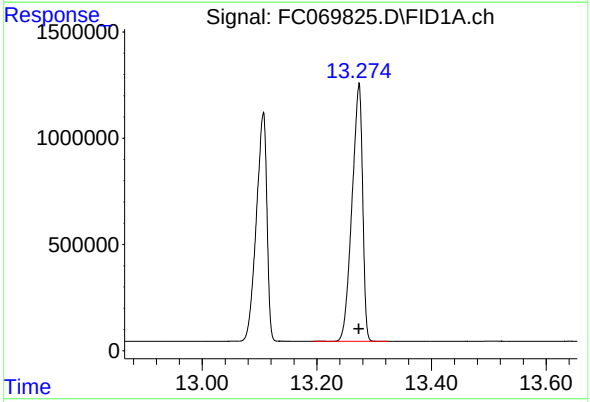
R.T.: 11.674 min
Delta R.T.: 0.000 min
Response: 16923747
Conc: 91.70 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



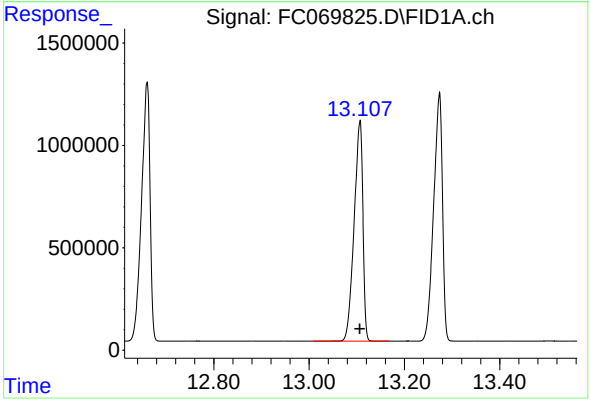
#10 n-Eicosane (C20)

R.T.: 12.660 min
Delta R.T.: 0.000 min
Response: 15587488
Conc: 88.55 ug/ml



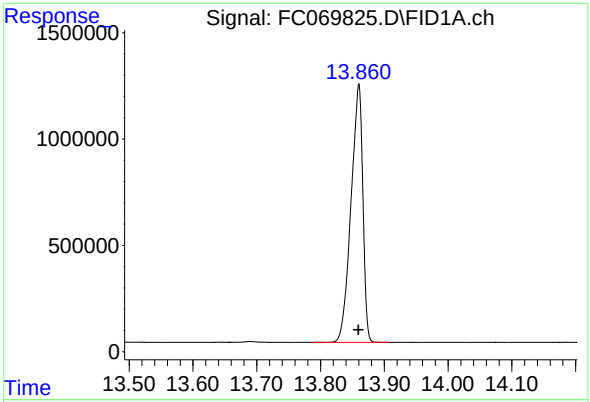
#11 n-Heneicosane (C21)

R.T.: 13.273 min
Delta R.T.: 0.000 min
Response: 15524646
Conc: 88.07 ug/ml



#12 1-chlorooctadecane (SURR)

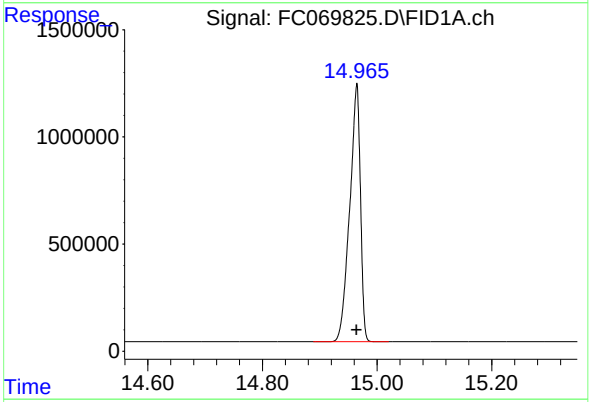
R.T.: 13.106 min
Delta R.T.: 0.000 min
Response: 13748454
Conc: 88.75 ug/ml



#13 n-Docosane (C22)

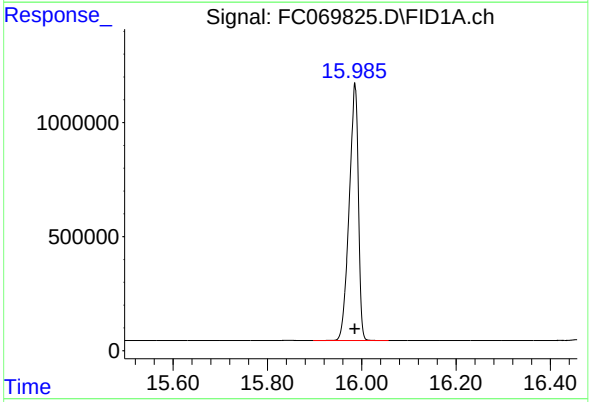
R.T.: 13.860 min
Delta R.T.: 0.000 min
Response: 15568351
Conc: 87.64 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



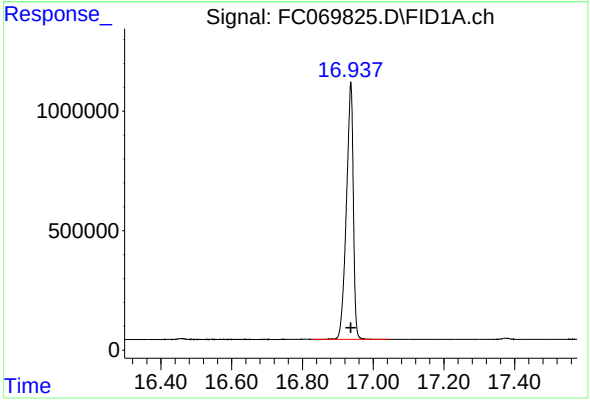
#14 n-Tetracosane (C24)

R.T.: 14.964 min
Delta R.T.: 0.000 min
Response: 15594950
Conc: 86.70 ug/ml



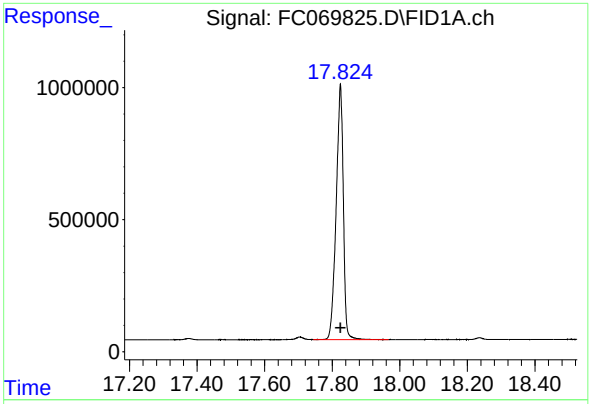
#15 n-Hexacosane (C26)

R.T.: 15.985 min
Delta R.T.: 0.000 min
Response: 15226883
Conc: 85.85 ug/ml



#16 n-Octacosane (C28)

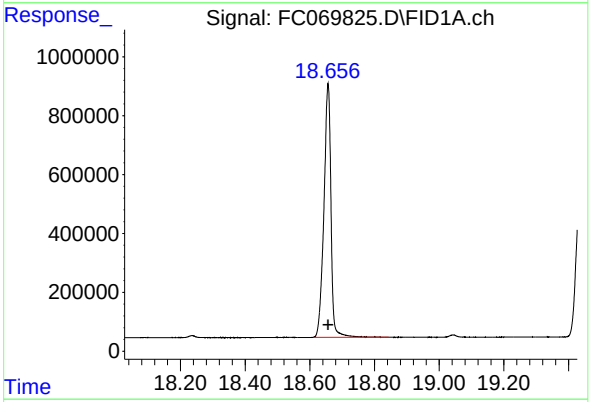
R.T.: 16.936 min
Delta R.T.: 0.000 min
Response: 14583672
Conc: 84.89 ug/ml



#17 n-Tricontane (C30)

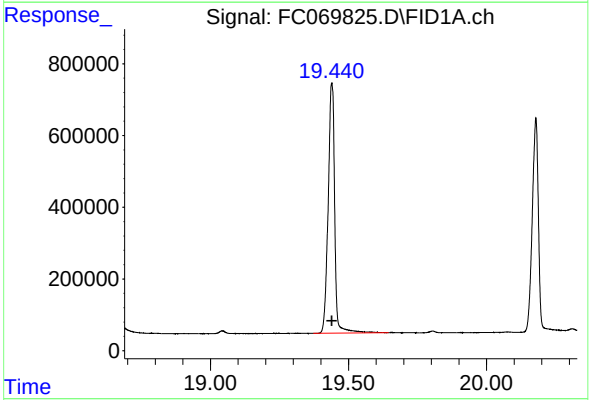
R.T.: 17.824 min
Delta R.T.: 0.000 min
Response: 14231420
Conc: 84.23 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



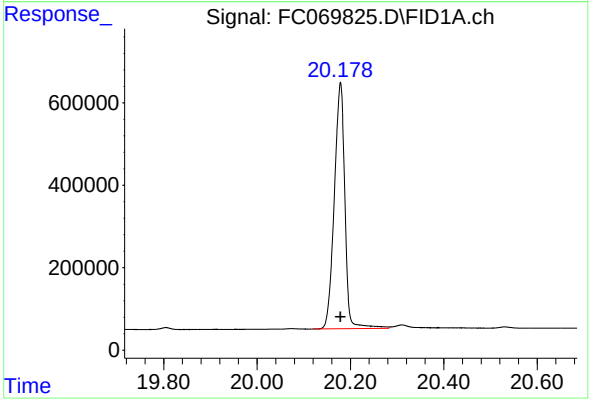
#18 n-Dotriacontane (C32)

R.T.: 18.656 min
Delta R.T.: 0.000 min
Response: 13051710
Conc: 83.85 ug/ml



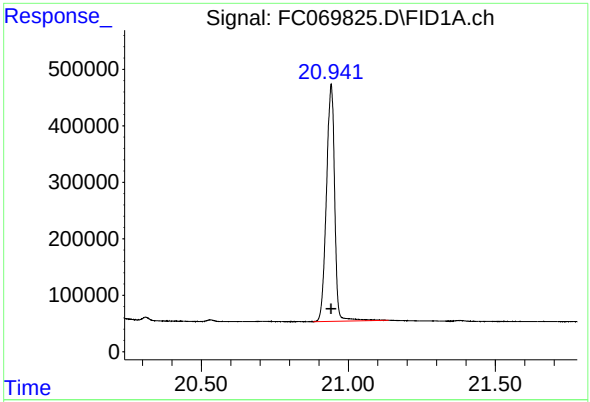
#19 n-Tetratriacontane (C34)

R.T.: 19.440 min
Delta R.T.: 0.000 min
Response: 11470497
Conc: 84.66 ug/ml



#20 n-Hexatriacontane (C36)

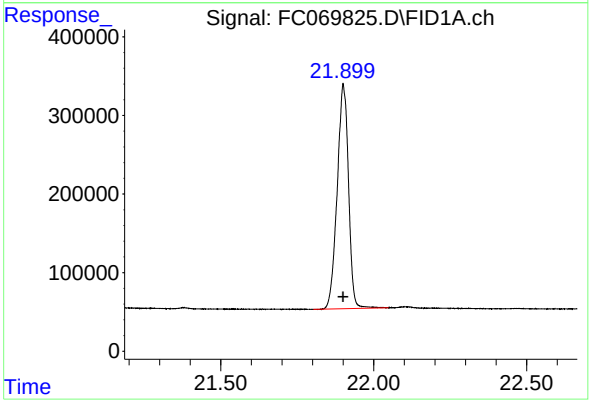
R.T.: 20.178 min
Delta R.T.: 0.000 min
Response: 9384313
Conc: 85.99 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.942 min
Delta R.T.: 0.000 min
Response: 8180165
Conc: 88.37 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.900 min
Delta R.T.: 0.000 min
Response: 7349273
Conc: 89.61 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069825.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 10:31
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.406	3.347	3.470	BB	1388469	11645434	68.81%	3.959%
2	4.479	4.417	4.554	BB	1296834	12074558	71.35%	4.105%
3	6.074	6.015	6.105	BV	1413198	13540149	80.01%	4.604%
4	6.502	6.432	6.554	BB	1254435	12761168	75.40%	4.339%
5	7.133	7.077	7.239	BB	1296551	13632065	80.55%	4.635%
6	8.300	8.227	8.365	BB	1226085	13524594	79.91%	4.598%
7	9.904	9.859	9.984	BB	1297853	14832734	87.64%	5.043%
8	11.351	11.294	11.410	BB	1272818	15683416	92.67%	5.332%
9	11.674	11.597	11.729	BB	1371178	16923747	100.00%	5.754%
10	12.660	12.589	12.707	BB	1266293	15587488	92.10%	5.300%
11	13.106	13.009	13.167	BB	1066658	13748454	81.24%	4.674%
12	13.273	13.194	13.325	BB	1217295	15524646	91.73%	5.278%
13	13.860	13.789	13.907	BB	1221304	15568351	91.99%	5.293%
14	14.964	14.889	15.020	BB	1190857	15594950	92.15%	5.302%
15	15.985	15.897	16.057	BB	1128033	15226883	89.97%	5.177%
16	16.936	16.830	17.044	BB	1078876	14583672	86.17%	4.958%
17	17.824	17.744	17.967	VB	967028	14231420	84.09%	4.839%
18	18.656	18.610	18.844	BB	861293	13051710	77.12%	4.438%
19	19.440	19.372	19.645	BB	698627	11470497	67.78%	3.900%
20	20.178	20.120	20.282	BV	598676	9384313	55.45%	3.191%
21	20.942	20.880	21.137	BB	420473	8180165	48.34%	2.781%
22	21.900	21.802	22.049	BB	286095	7349273	43.43%	2.499%
			Sum of corrected areas:			294119687		

Aliphatic EPH 092325.M Tue Sep 23 15:05:00 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 23 12:46:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 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)	11.667	8965638	49.045 ug/ml
Spiked Amount	50.000		Recovery =	98.09%
12)	S 1-chlorooctadecane (S...	13.100	7425577	48.602 ug/ml
Spiked Amount	50.000		Recovery =	97.20%
	Target Compounds			
1)	T n-Nonane (C9)	3.403	6152543	49.343 ug/ml
2)	T n-Decane (C10)	4.475	6373820	49.166 ug/ml
3)	T A~Naphthalene (C11.7)	6.069	7155979	49.334 ug/ml
4)	T n-Dodecane (C12)	6.498	6712655	49.045 ug/ml
5)	T A~2-methylnaphthalene...	7.128	7133568	49.219 ug/ml
6)	T n-Tetradecane (C14)	8.295	7146968	49.116 ug/ml
7)	T n-Hexadecane (C16)	9.899	7932807	49.170 ug/ml
8)	T n-Octadecane (C18)	11.344	8462910	48.926 ug/ml
10)	T n-Eicosane (C20)	12.654	8449007	48.646 ug/ml
11)	T n-Heneicosane (C21)	13.266	8430321	48.530 ug/ml
13)	T n-Docosane (C22)	13.853	8470750	48.432 ug/ml
14)	T n-Tetracosane (C24)	14.957	8543618	48.305 ug/ml
15)	T n-Hexacosane (C26)	15.980	8419910	48.285 ug/ml
16)	T n-Octacosane (C28)	16.929	8178481	48.379 ug/ml
17)	T n-Tricontane (C30)	17.819	8058251	48.438 ug/ml
18)	T n-Dotriacontane (C32)	18.651	7444649	48.531 ug/ml
19)	T n-Tetratriacontane (C34)	19.436	6495279	48.608 ug/ml
20)	T n-Hexatriacontane (C36)	20.174	5232913	48.616 ug/ml
21)	T n-Octatriacontane (C38)	20.935	4446700	48.675 ug/ml
22)	T n-Tetracontane (C40)	21.896	3973611	48.955 ug/ml

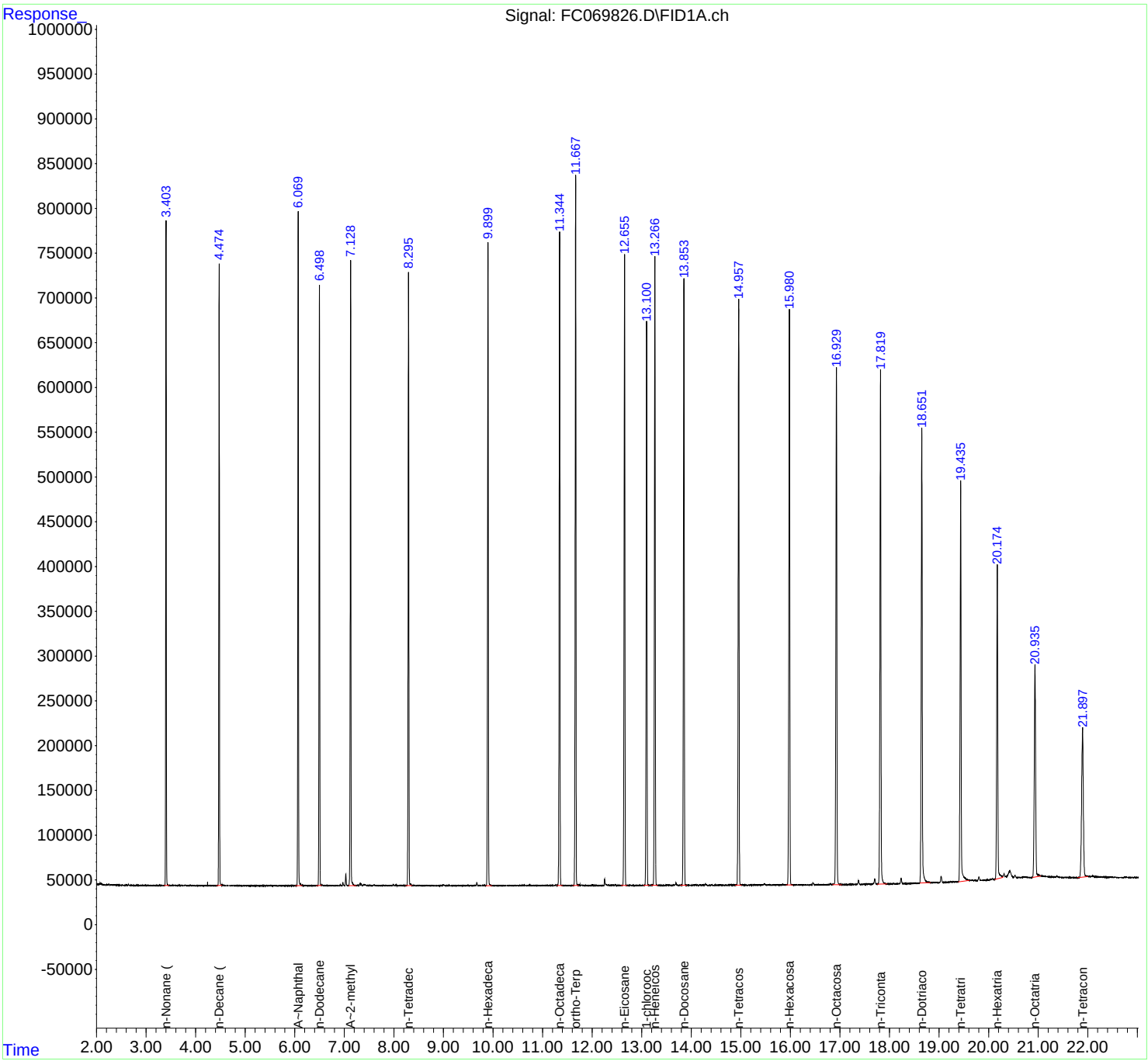
(f)=RT Delta > 1/2 Window (m)=manual int.

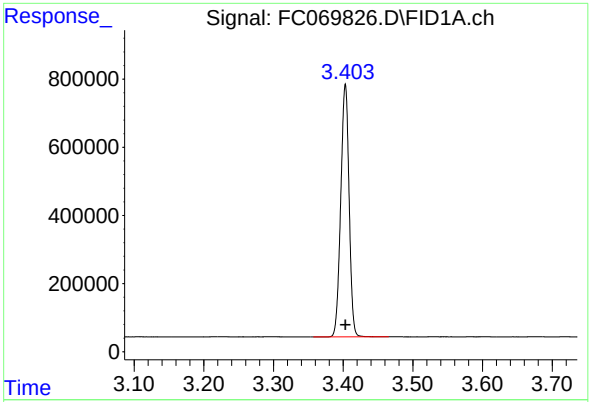
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 23 12:46:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

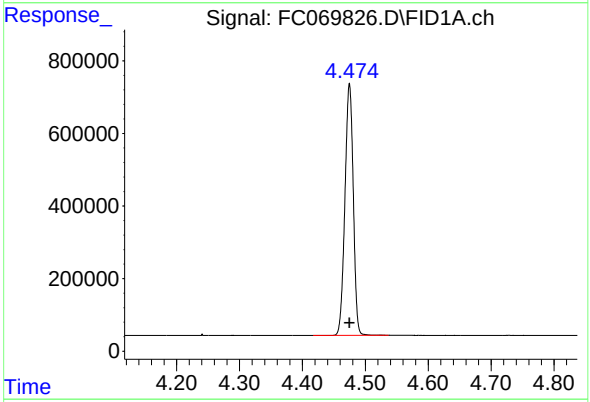




#1 n-Nonane (C9)

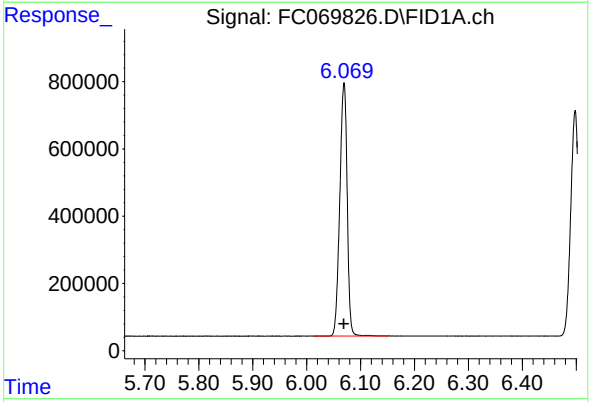
R.T.: 3.403 min
Delta R.T.: 0.000 min
Response: 6152543
Conc: 49.34 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



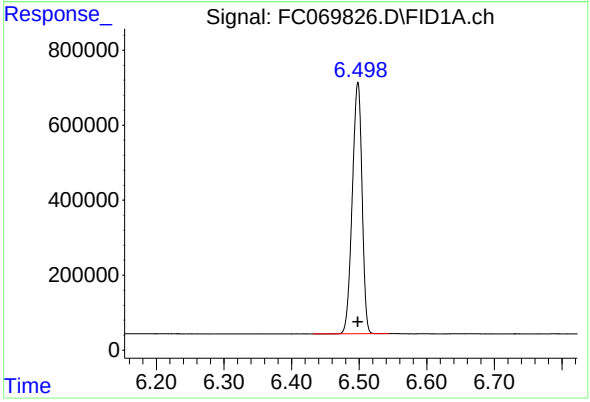
#2 n-Decane (C10)

R.T.: 4.475 min
Delta R.T.: 0.000 min
Response: 6373820
Conc: 49.17 ug/ml



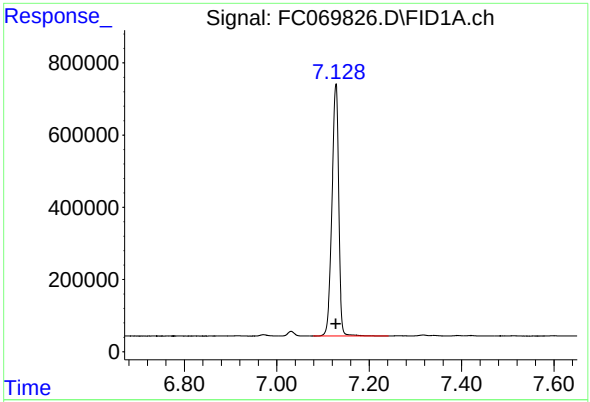
#3 A~Naphthalene (C11.7)

R.T.: 6.069 min
Delta R.T.: 0.000 min
Response: 7155979
Conc: 49.33 ug/ml



#4 n-Dodecane (C12)

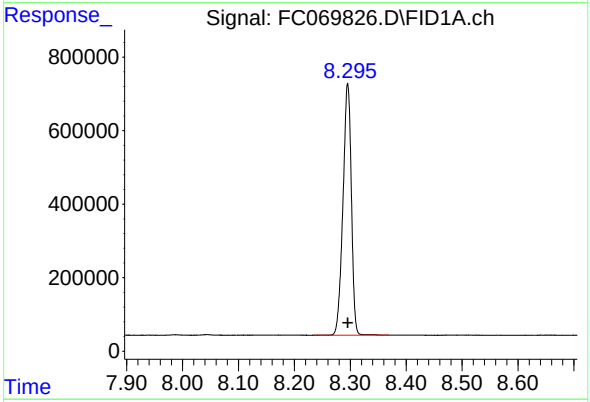
R.T.: 6.498 min
Delta R.T.: 0.000 min
Response: 6712655
Conc: 49.04 ug/ml



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

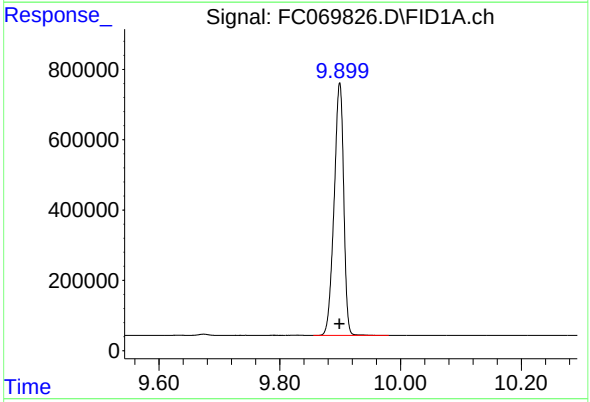
R.T.: 7.128 min
Delta R.T.: 0.000 min
Response: 7133568
Conc: 49.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



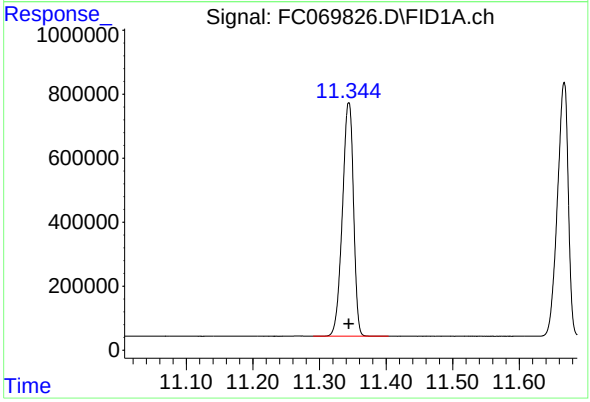
#6 n-Tetradecane (C14)

R.T.: 8.295 min
Delta R.T.: 0.000 min
Response: 7146968
Conc: 49.12 ug/ml



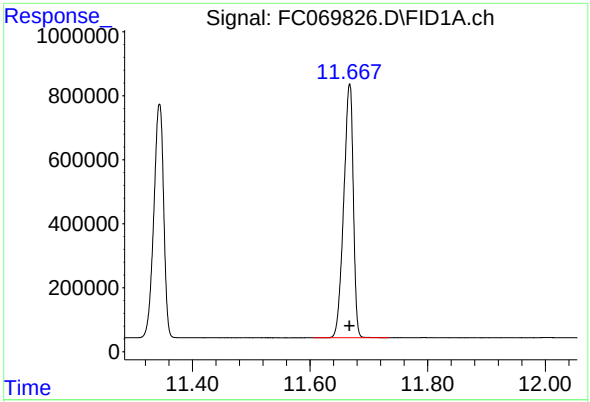
#7 n-Hexadecane (C16)

R.T.: 9.899 min
Delta R.T.: 0.000 min
Response: 7932807
Conc: 49.17 ug/ml



#8 n-Octadecane (C18)

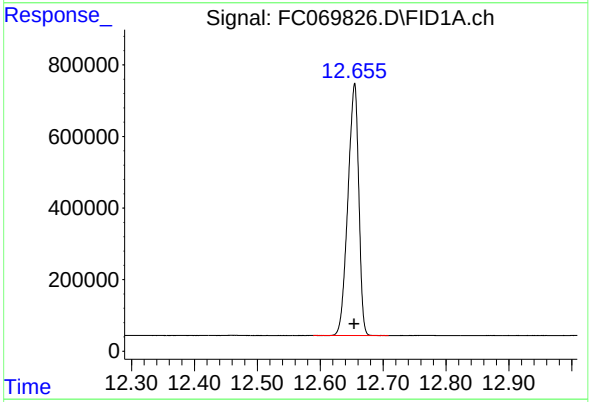
R.T.: 11.344 min
Delta R.T.: 0.000 min
Response: 8462910
Conc: 48.93 ug/ml



#9 ortho-Terphenyl (SURR)

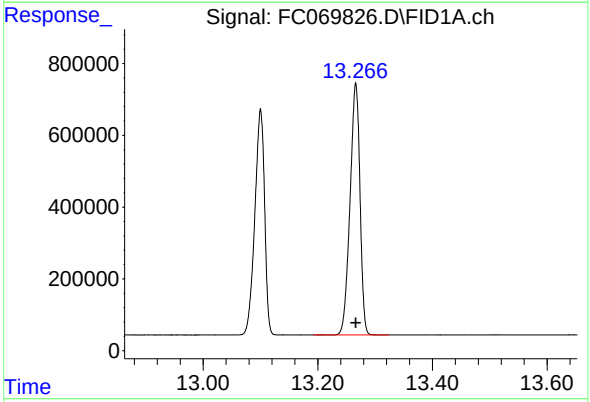
R.T.: 11.667 min
Delta R.T.: 0.000 min
Response: 8965638
Conc: 49.05 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



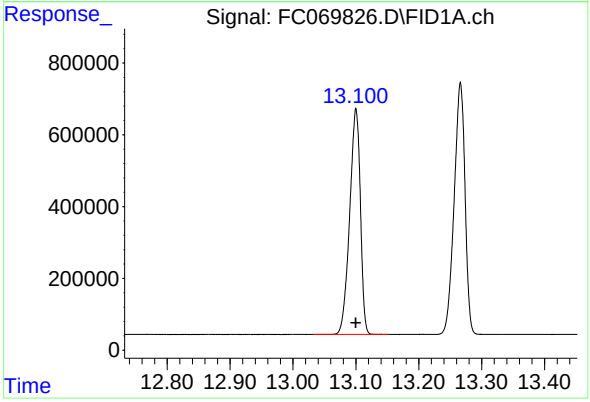
#10 n-Eicosane (C20)

R.T.: 12.654 min
Delta R.T.: 0.000 min
Response: 8449007
Conc: 48.65 ug/ml



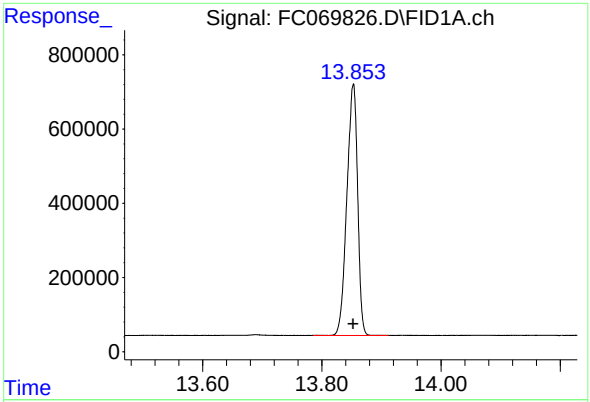
#11 n-Heneicosane (C21)

R.T.: 13.266 min
Delta R.T.: 0.000 min
Response: 8430321
Conc: 48.53 ug/ml



#12 1-chlorooctadecane (SURR)

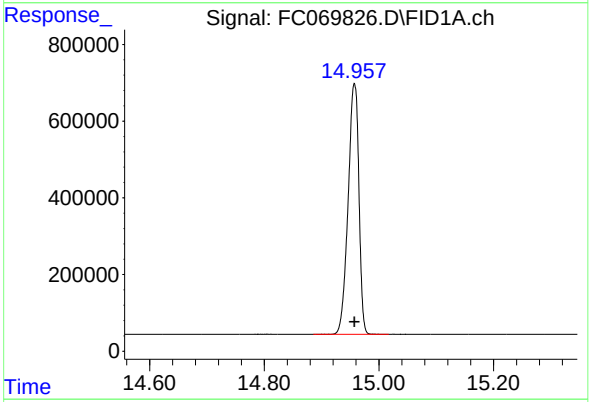
R.T.: 13.100 min
Delta R.T.: 0.000 min
Response: 7425577
Conc: 48.60 ug/ml



#13 n-Docosane (C22)

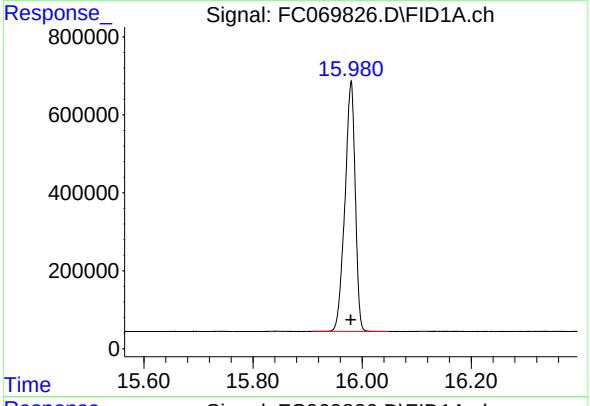
R.T.: 13.853 min
Delta R.T.: 0.000 min
Response: 8470750
Conc: 48.43 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



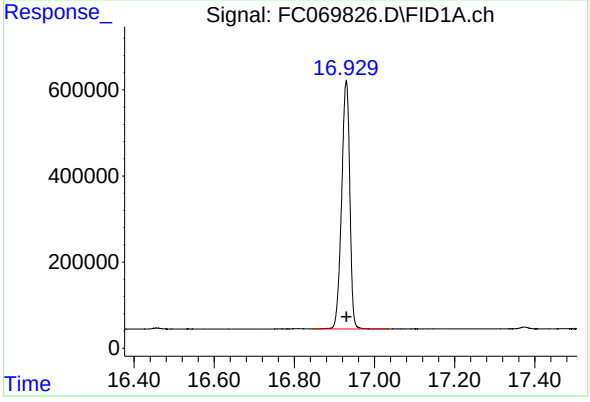
#14 n-Tetracosane (C24)

R.T.: 14.957 min
Delta R.T.: 0.000 min
Response: 8543618
Conc: 48.30 ug/ml



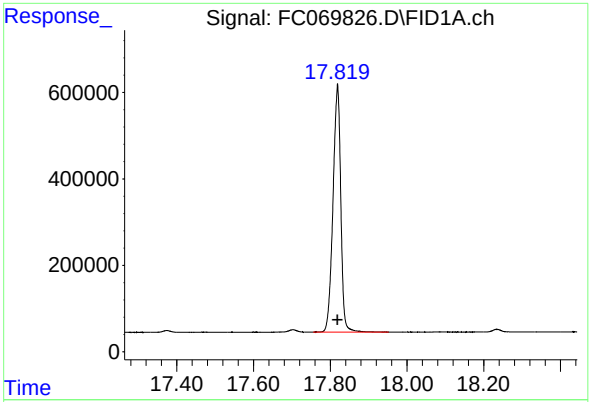
#15 n-Hexacosane (C26)

R.T.: 15.980 min
Delta R.T.: 0.000 min
Response: 8419910
Conc: 48.29 ug/ml



#16 n-Octacosane (C28)

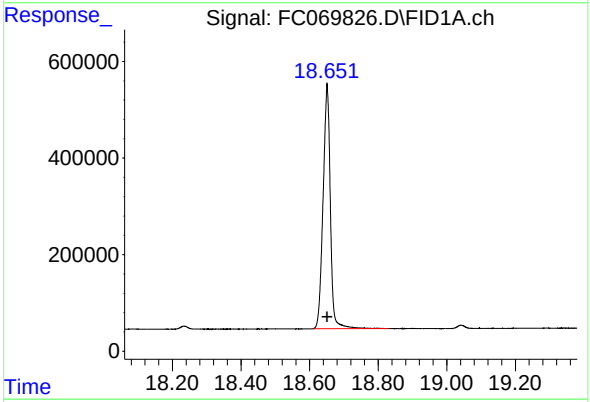
R.T.: 16.929 min
Delta R.T.: 0.000 min
Response: 8178481
Conc: 48.38 ug/ml



#17 n-Tricontane (C30)

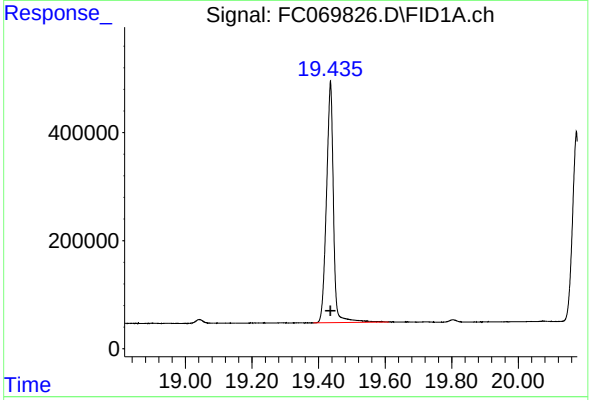
R.T.: 17.819 min
Delta R.T.: 0.000 min
Response: 8058251
Conc: 48.44 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



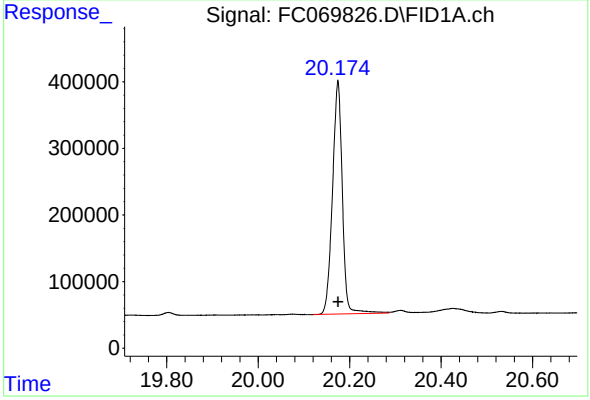
#18 n-Dotriacontane (C32)

R.T.: 18.651 min
Delta R.T.: 0.000 min
Response: 7444649
Conc: 48.53 ug/ml



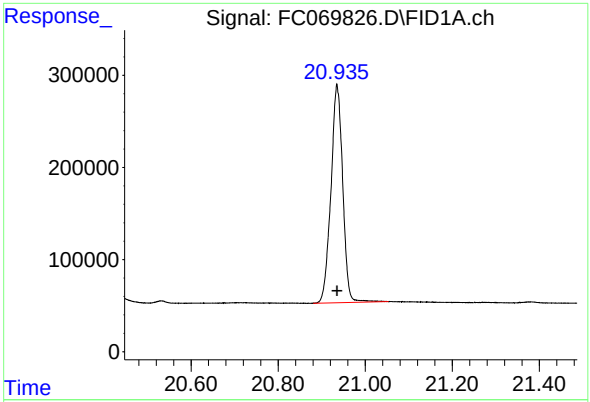
#19 n-Tetratriacontane (C34)

R.T.: 19.436 min
Delta R.T.: 0.000 min
Response: 6495279
Conc: 48.61 ug/ml



#20 n-Hexatriacontane (C36)

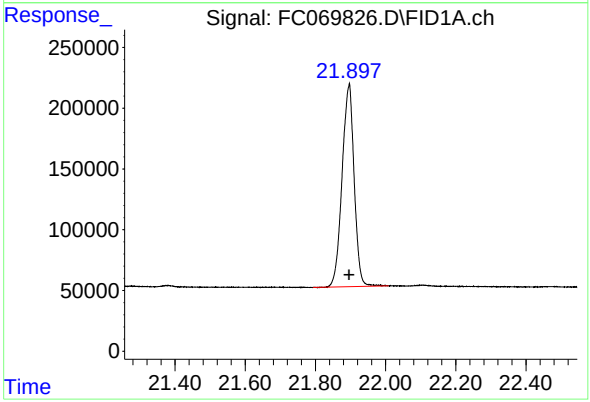
R.T.: 20.174 min
Delta R.T.: 0.000 min
Response: 5232913
Conc: 48.62 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.935 min
Delta R.T.: 0.000 min
Response: 4446700
Conc: 48.67 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.896 min
Delta R.T.: 0.000 min
Response: 3973611
Conc: 48.96 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069826.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 11:16
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.403	3.357	3.465	BB	745051	6152543	68.62%	3.855%
2	4.475	4.417	4.537	BB	693786	6373820	71.09%	3.993%
3	6.069	6.012	6.152	BB	751105	7155979	79.82%	4.484%
4	6.498	6.432	6.544	BB	674503	6712655	74.87%	4.206%
5	7.128	7.079	7.242	BB	695935	7133568	79.57%	4.469%
6	8.295	8.234	8.369	BB	685059	7146968	79.72%	4.478%
7	9.899	9.855	9.980	BB	719336	7932807	88.48%	4.970%
8	11.344	11.290	11.404	BB	730677	8462910	94.39%	5.302%
9	11.667	11.605	11.734	BB	794180	8965638	100.00%	5.617%
10	12.654	12.589	12.709	BB	701289	8449007	94.24%	5.294%
11	13.100	13.032	13.152	BB	629941	7425577	82.82%	4.652%
12	13.266	13.192	13.324	BB	702135	8430321	94.03%	5.282%
13	13.853	13.785	13.912	BB	675901	8470750	94.48%	5.307%
14	14.957	14.885	15.017	BB	654442	8543618	95.29%	5.353%
15	15.980	15.910	16.049	BB	646597	8419910	93.91%	5.275%
16	16.929	16.847	17.035	BB	574977	8178481	91.22%	5.124%
17	17.819	17.755	17.952	BB	572820	8058251	89.88%	5.049%
18	18.651	18.610	18.830	BB	506372	7444649	83.04%	4.664%
19	19.436	19.384	19.610	BB	446121	6495279	72.45%	4.070%
20	20.174	20.120	20.285	BV	348797	5232913	58.37%	3.279%
21	20.935	20.880	21.054	BB	236642	4446700	49.60%	2.786%
22	21.896	21.794	22.009	BB	165691	3973611	44.32%	2.490%

Sum of corrected areas: 159605955

Aliphatic EPH 092325.M Tue Sep 23 15:04:15 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 23 12:38:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 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)	11.661	3997190	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12)	S 1-chlorooctadecane (S...	13.095	3447033	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1)	T n-Nonane (C9)	3.401	2691320	20.000 ug/ml
2)	T n-Decane (C10)	4.472	2813927	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	6.066	3132652	20.000 ug/ml
4)	T n-Dodecane (C12)	6.495	2974748	20.000 ug/ml
5)	T A~2-methylnaphthalene...	7.124	3116315	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.292	3166933	20.000 ug/ml
7)	T n-Hexadecane (C16)	9.895	3540428	20.000 ug/ml
8)	T n-Octadecane (C18)	11.339	3856654	20.000 ug/ml
10)	T n-Eicosane (C20)	12.649	3923913	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.262	3945724	20.000 ug/ml
13)	T n-Docosane (C22)	13.849	3991937	20.000 ug/ml
14)	T n-Tetracosane (C24)	14.953	4075708	20.000 ug/ml
15)	T n-Hexacosane (C26)	15.975	4049330	20.000 ug/ml
16)	T n-Octacosane (C28)	16.925	3954788	20.000 ug/ml
17)	T n-Tricontane (C30)	17.814	3912238	20.000 ug/ml
18)	T n-Dotriacontane (C32)	18.647	3615771	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.430	3125338	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	20.171	2488192	20.000 ug/ml
21)	T n-Octatriacontane (C38)	20.931	2066589	20.000 ug/ml
22)	T n-Tetracontane (C40)	21.893	1810790	20.000 ug/ml

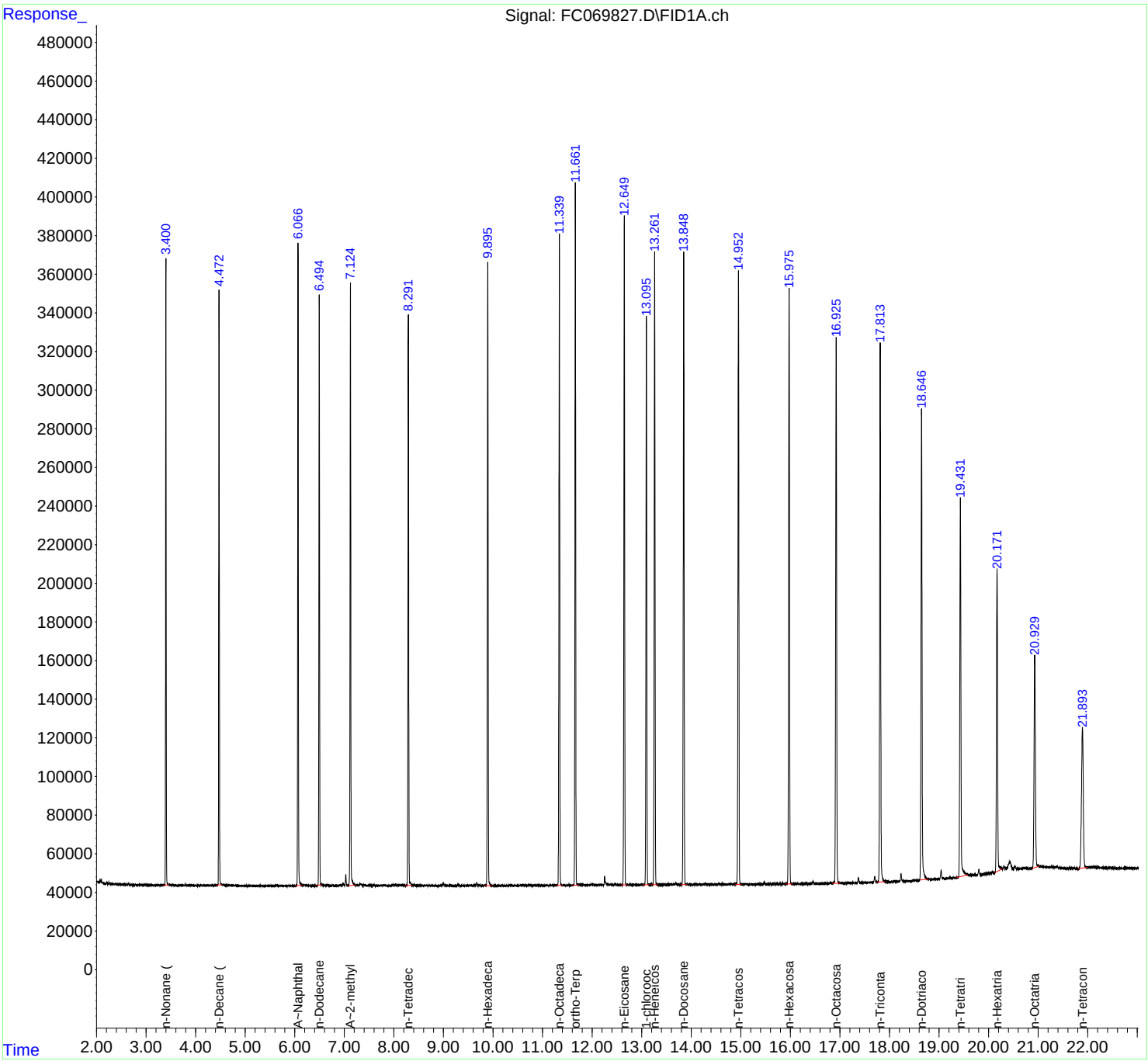
(f)=RT Delta > 1/2 Window (m)=manual int.

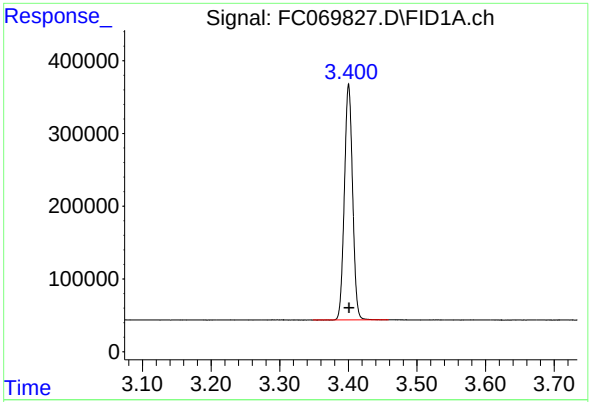
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 23 12:38:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 12:38:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

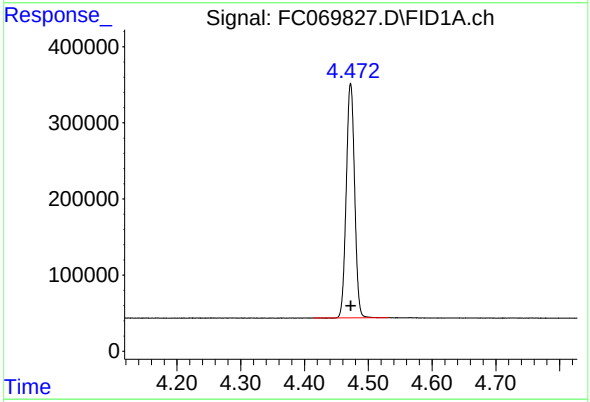




#1 n-Nonane (C9)

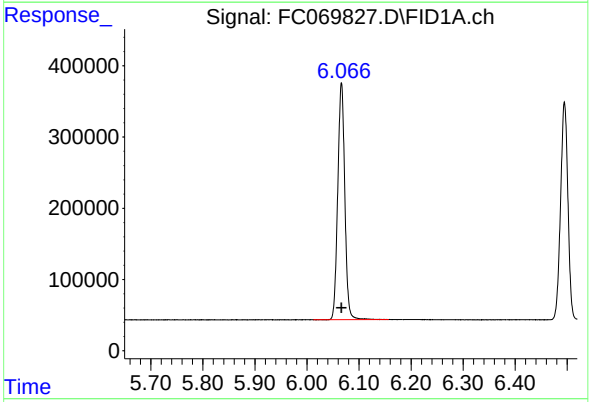
R.T.: 3.401 min
Delta R.T.: 0.000 min
Response: 2691320
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



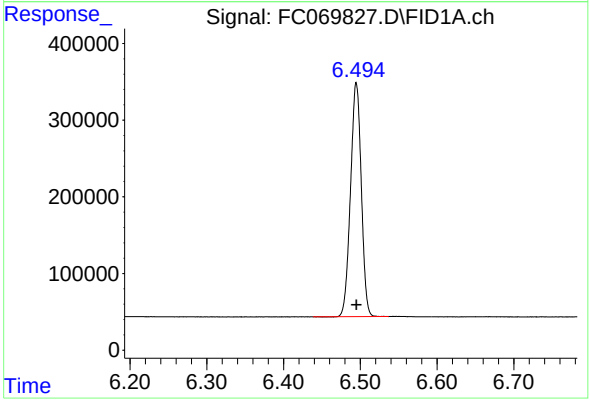
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 2813927
Conc: 20.00 ug/ml



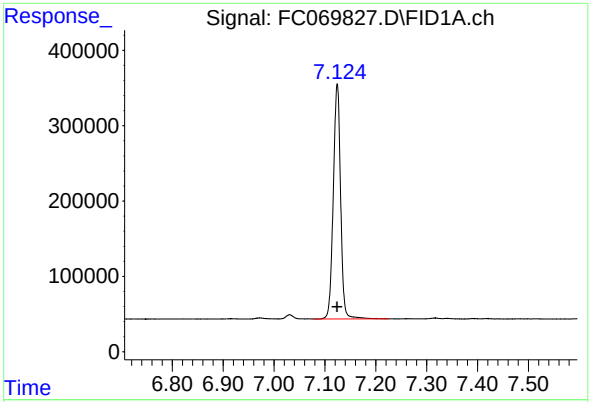
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 3132652
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

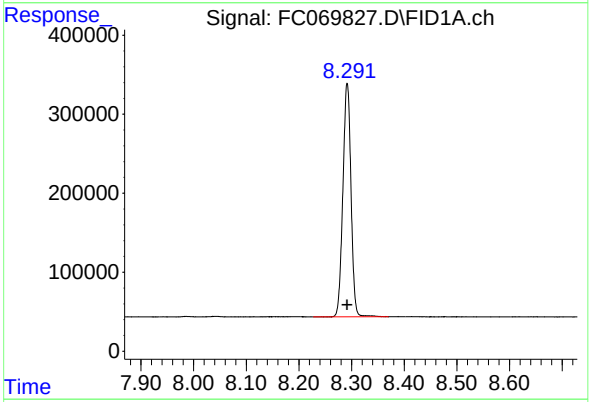
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2974748
Conc: 20.00 ug/ml



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

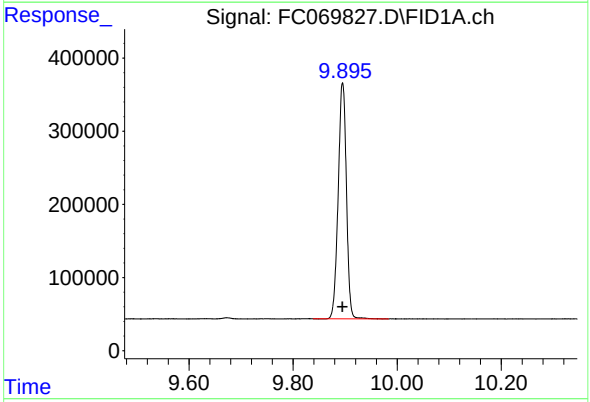
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3116315
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



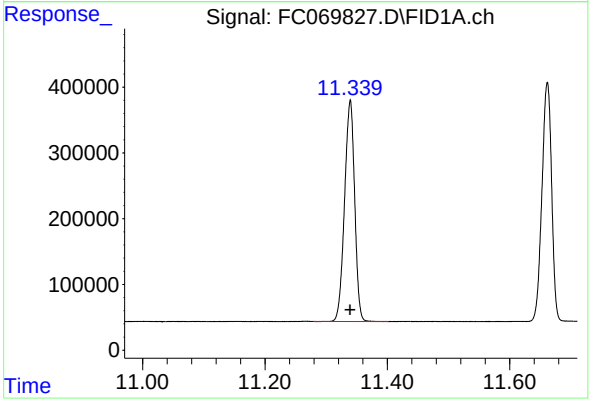
#6 n-Tetradecane (C14)

R.T.: 8.292 min
Delta R.T.: 0.000 min
Response: 3166933
Conc: 20.00 ug/ml



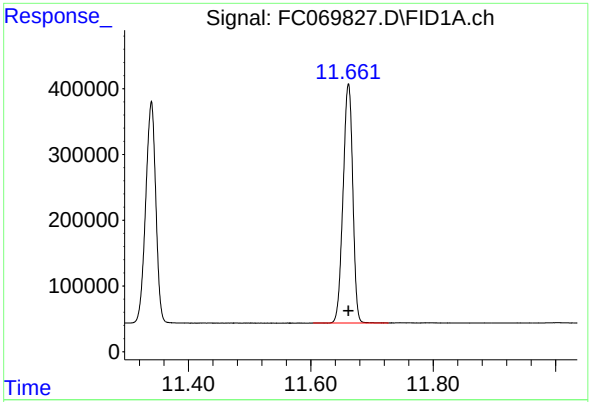
#7 n-Hexadecane (C16)

R.T.: 9.895 min
Delta R.T.: 0.000 min
Response: 3540428
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

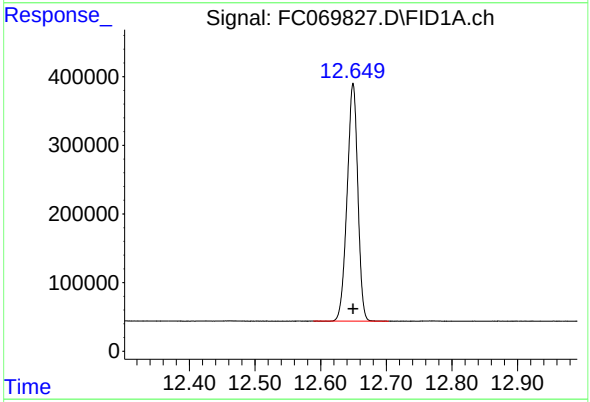
R.T.: 11.339 min
Delta R.T.: 0.000 min
Response: 3856654
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

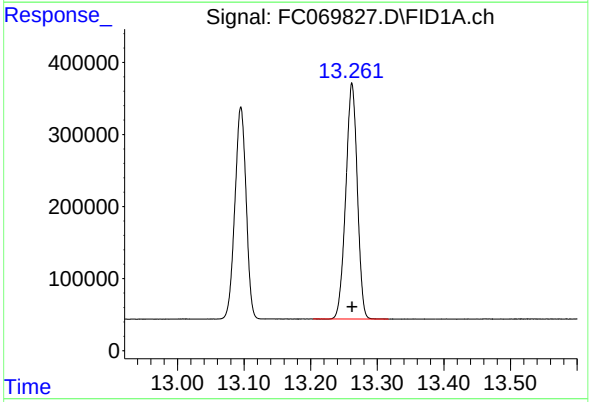
R.T.: 11.661 min
Delta R.T.: 0.000 min
Response: 3997190
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



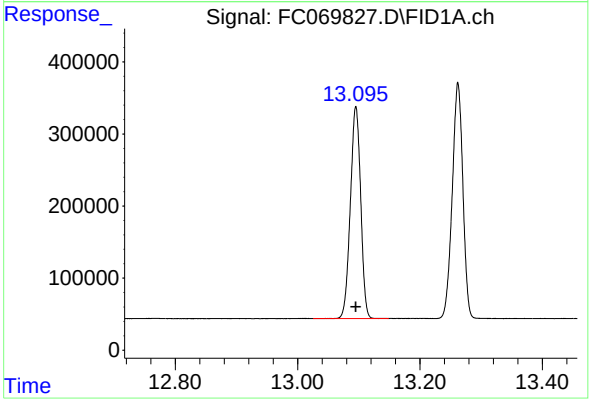
#10 n-Eicosane (C20)

R.T.: 12.649 min
Delta R.T.: 0.000 min
Response: 3923913
Conc: 20.00 ug/ml



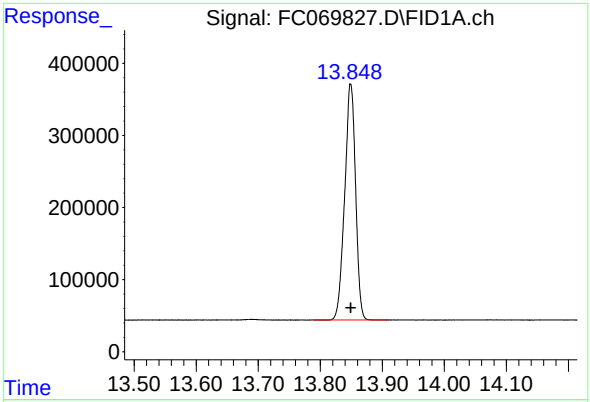
#11 n-Heneicosane (C21)

R.T.: 13.262 min
Delta R.T.: 0.000 min
Response: 3945724
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

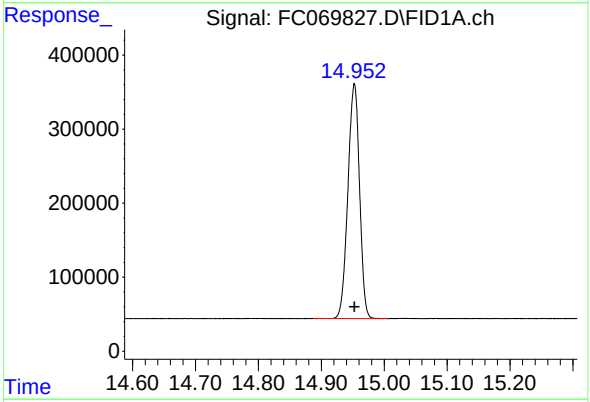
R.T.: 13.095 min
Delta R.T.: 0.000 min
Response: 3447033
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

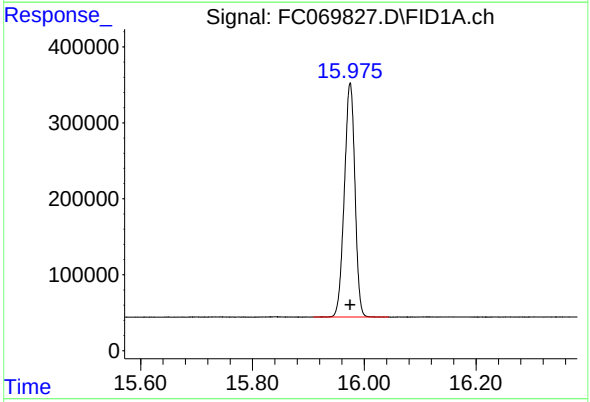
R.T.: 13.849 min
Delta R.T.: 0.000 min
Response: 3991937
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



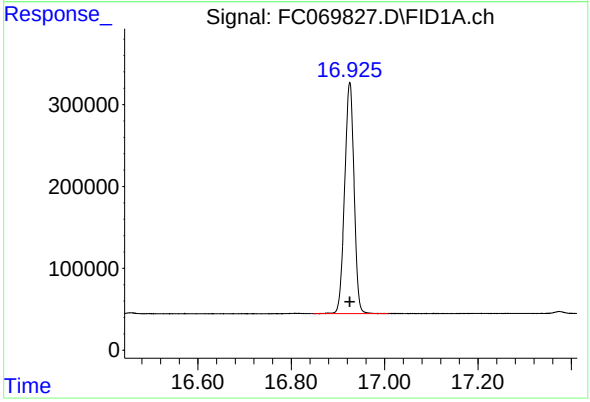
#14 n-Tetracosane (C24)

R.T.: 14.953 min
Delta R.T.: 0.000 min
Response: 4075708
Conc: 20.00 ug/ml



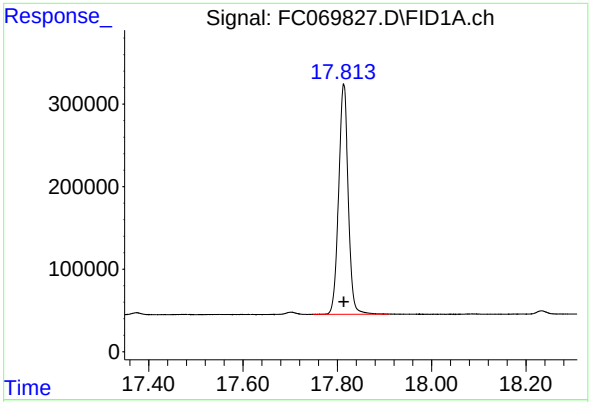
#15 n-Hexacosane (C26)

R.T.: 15.975 min
Delta R.T.: 0.000 min
Response: 4049330
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

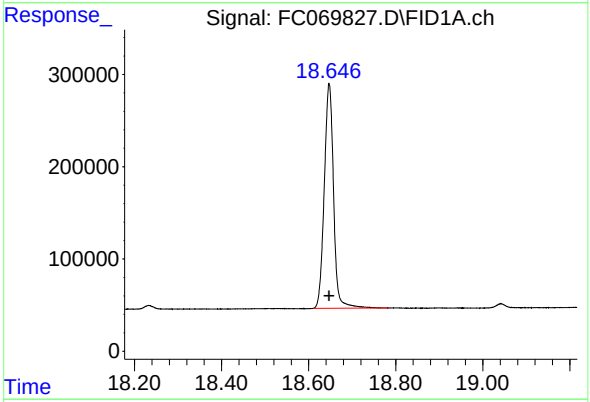
R.T.: 16.925 min
Delta R.T.: 0.000 min
Response: 3954788
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

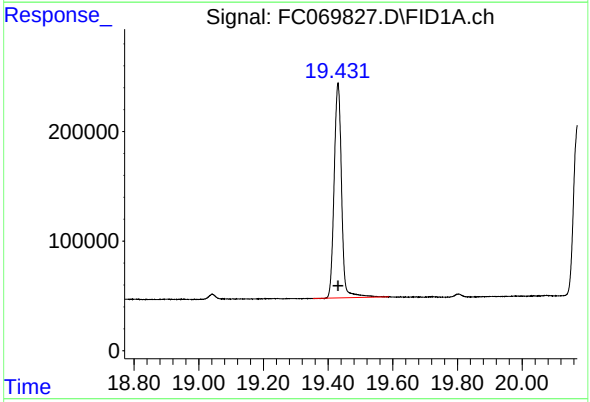
R.T.: 17.814 min
Delta R.T.: 0.000 min
Response: 3912238
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



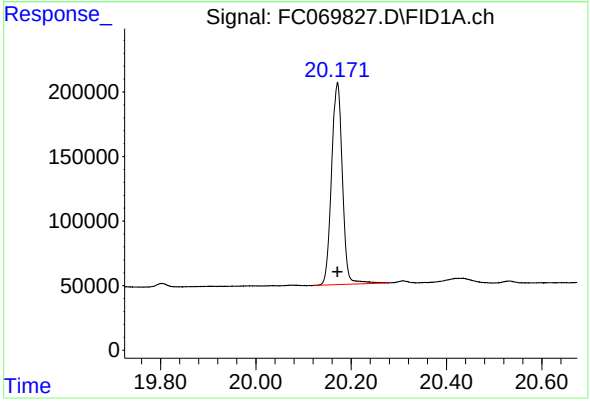
#18 n-Dotriacontane (C32)

R.T.: 18.647 min
Delta R.T.: 0.000 min
Response: 3615771
Conc: 20.00 ug/ml



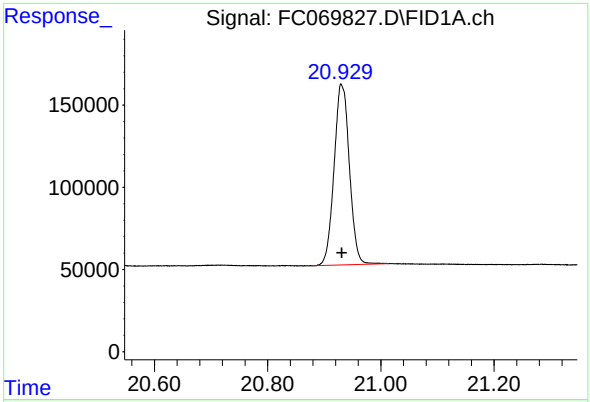
#19 n-Tetratriacontane (C34)

R.T.: 19.430 min
Delta R.T.: 0.000 min
Response: 3125338
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

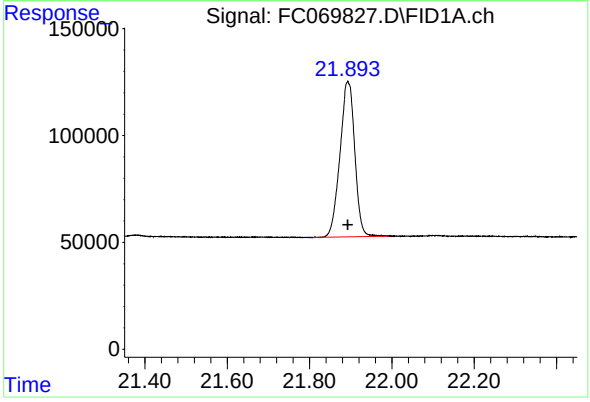
R.T.: 20.171 min
Delta R.T.: 0.000 min
Response: 2488192
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.931 min
Delta R.T.: 0.000 min
Response: 2066589
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.893 min
Delta R.T.: 0.000 min
Response: 1810790
Conc: 20.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069827.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:02
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.401	3.349	3.459	BB	323368	2691320	66.03%	3.652%
2	4.472	4.414	4.532	BB	307981	2813927	69.04%	3.818%
3	6.066	6.012	6.157	BB	333281	3132652	76.86%	4.251%
4	6.495	6.439	6.537	BB	304189	2974748	72.99%	4.036%
5	7.124	7.077	7.225	BB	312463	3116315	76.46%	4.229%
6	8.292	8.227	8.370	BB	295532	3166933	77.70%	4.297%
7	9.895	9.839	9.984	BB	322443	3540428	86.87%	4.804%
8	11.339	11.279	11.402	BB	335701	3856654	94.63%	5.233%
9	11.661	11.604	11.727	BB	364997	3997190	98.07%	5.424%
10	12.649	12.589	12.704	BB	345435	3923913	96.28%	5.324%
11	13.095	13.025	13.149	BB	294191	3447033	84.58%	4.677%
12	13.262	13.204	13.317	BB	327597	3945724	96.81%	5.354%
13	13.849	13.789	13.910	BB	327535	3991937	97.94%	5.417%
14	14.953	14.887	15.007	BB	317817	4075708	100.00%	5.530%
15	15.975	15.909	16.044	BB	308627	4049330	99.35%	5.495%
16	16.925	16.847	17.009	BB	282583	3954788	97.03%	5.366%
17	17.814	17.749	17.909	BB	279045	3912238	95.99%	5.309%
18	18.647	18.610	18.784	BB	243782	3615771	88.72%	4.906%
19	19.430	19.354	19.587	BB	195856	3125338	76.68%	4.241%
20	20.171	20.120	20.279	BB	155921	2488192	61.05%	3.376%
21	20.931	20.880	21.014	BB	109494	2066589	50.71%	2.804%
22	21.893	21.809	21.992	BB	72741	1810790	44.43%	2.457%
			Sum of corrected areas:			73697515		

Aliphatic EPH 092325.M Tue Sep 23 15:03:39 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 23 13:19:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 13:19:13 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)	11.659	1827092	9.996 ug/ml
Spiked Amount	50.000		Recovery =	19.99%
12) S	1-chlorooctadecane (S...	13.094	1510608	9.915 ug/ml
Spiked Amount	50.000		Recovery =	19.83%
	Target Compounds			
1) T	n-Nonane (C9)	3.400	1287588	10.243 ug/ml
2) T	n-Decane (C10)	4.472	1326423	10.173 ug/ml
3) T	A~Naphthalene (C11.7)	6.066	1492245	10.214 ug/ml
4) T	n-Dodecane (C12)	6.495	1378664	10.055 ug/ml
5) T	A~2-methylnaphthalene...	7.124	1473925	10.127 ug/ml
6) T	n-Tetradecane (C14)	8.291	1453833	9.993 ug/ml
7) T	n-Hexadecane (C16)	9.894	1605537	9.964 ug/ml
8) T	n-Octadecane (C18)	11.337	1715153	9.937 ug/ml
10) T	n-Eicosane (C20)	12.648	1724242	9.946 ug/ml
11) T	n-Heneicosane (C21)	13.261	1721908	9.934 ug/ml
13) T	n-Docosane (C22)	13.847	1730466	9.920 ug/ml
14) T	n-Tetracosane (C24)	14.951	1747122	9.908 ug/ml
15) T	n-Hexacosane (C26)	15.973	1725760	9.922 ug/ml
16) T	n-Octacosane (C28)	16.923	1682895	9.966 ug/ml
17) T	n-Tricontane (C30)	17.812	1680498	10.076 ug/ml
18) T	n-Dotriacontane (C32)	18.646	1566941	10.160 ug/ml
19) T	n-Tetratriacontane (C34)	19.429	1350605	10.080 ug/ml
20) T	n-Hexatriacontane (C36)	20.169	1124746	10.333 ug/ml
21) T	n-Octatriacontane (C38)	20.929	982164	10.553 ug/ml
22) T	n-Tetracontane (C40)	21.889	904610	10.835 ug/ml

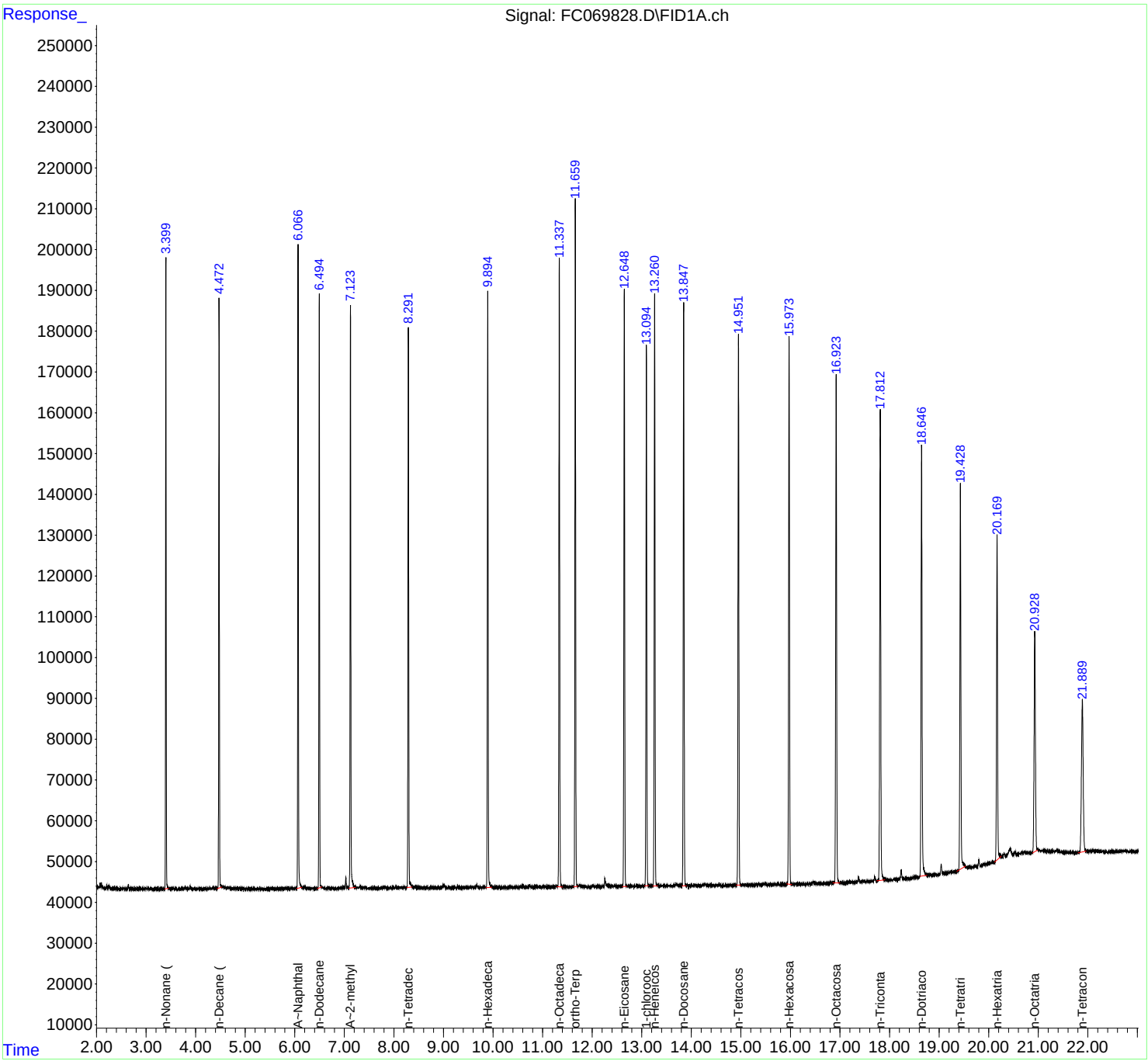
(f)=RT Delta > 1/2 Window (m)=manual int.

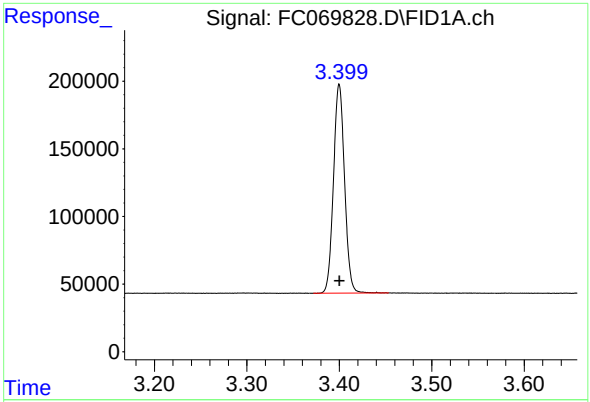
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 23 13:19:22 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 13:19:13 2025
Response via : Initial Calibration
Integrator: ChemStation

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

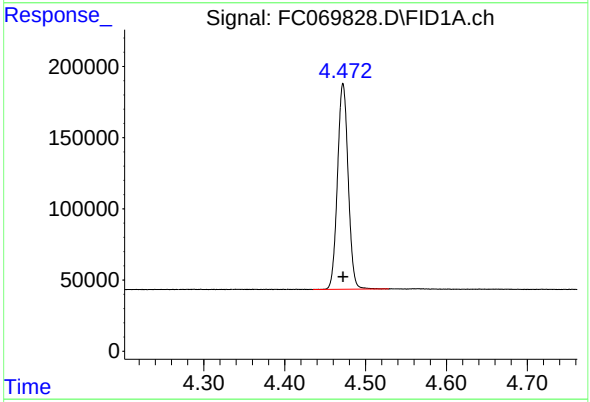




#1 n-Nonane (C9)

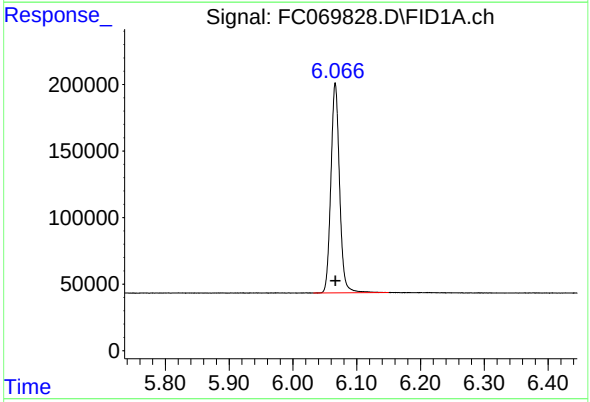
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 1287588
Conc: 10.24 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



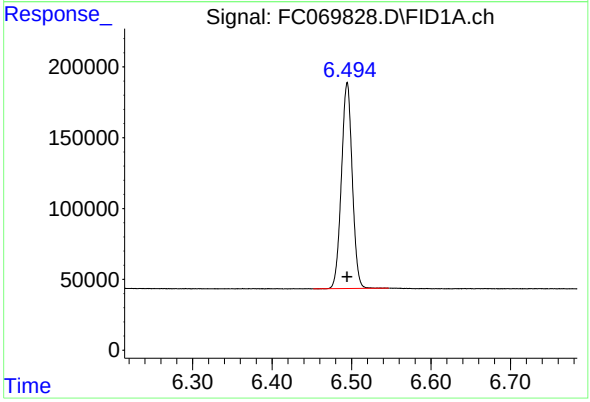
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 1326423
Conc: 10.17 ug/ml



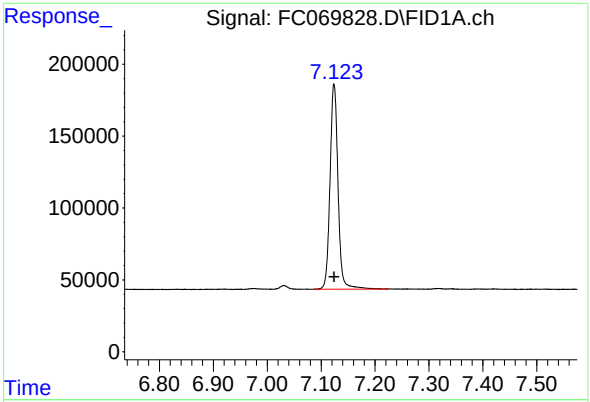
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 1492245
Conc: 10.21 ug/ml



#4 n-Dodecane (C12)

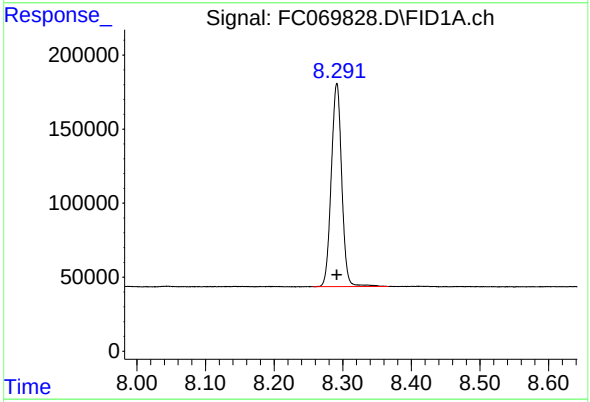
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 1378664
Conc: 10.05 ug/ml



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

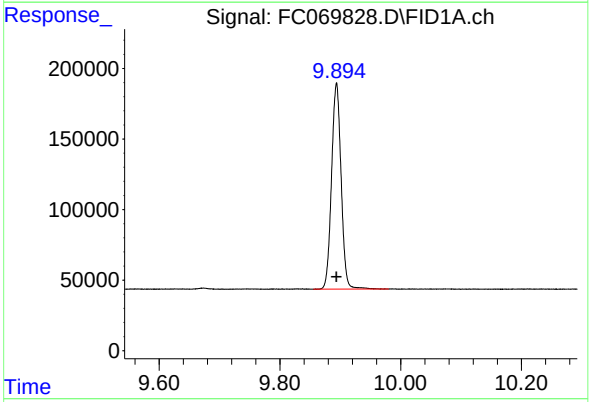
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 1473925
Conc: 10.13 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



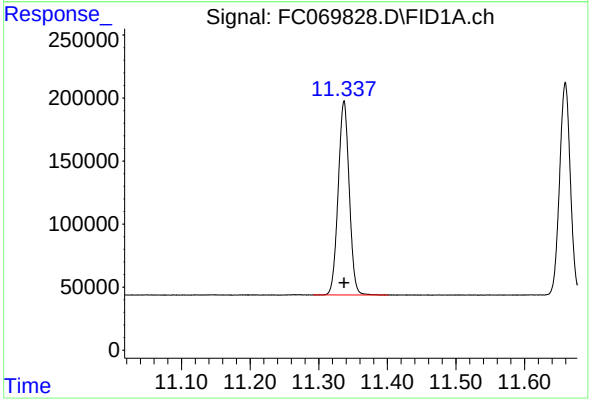
#6 n-Tetradecane (C14)

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 1453833
Conc: 9.99 ug/ml



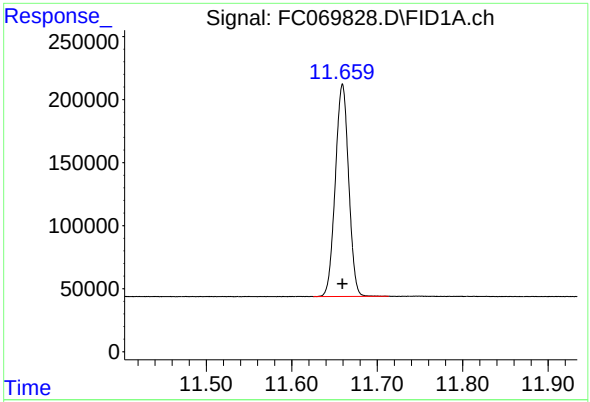
#7 n-Hexadecane (C16)

R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 1605537
Conc: 9.96 ug/ml



#8 n-Octadecane (C18)

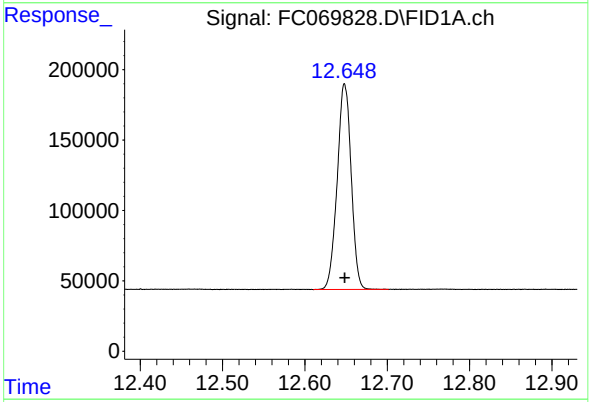
R.T.: 11.337 min
Delta R.T.: 0.000 min
Response: 1715153
Conc: 9.94 ug/ml



#9 ortho-Terphenyl (SURR)

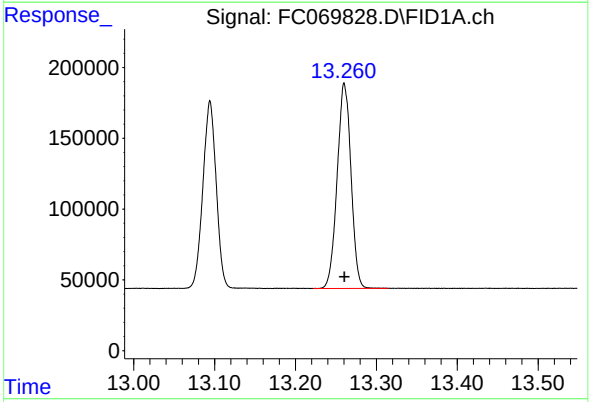
R.T.: 11.659 min
Delta R.T.: 0.000 min
Response: 1827092
Conc: 10.00 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



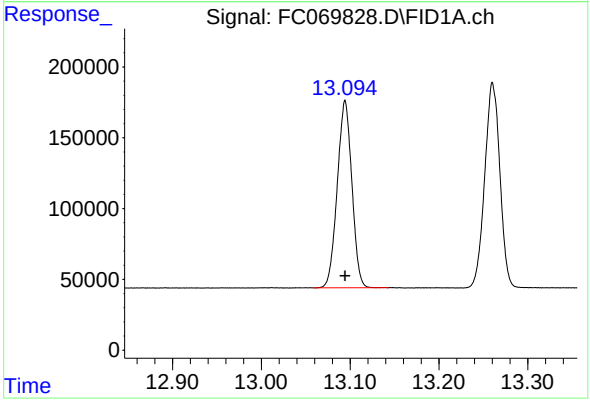
#10 n-Eicosane (C20)

R.T.: 12.648 min
Delta R.T.: 0.000 min
Response: 1724242
Conc: 9.95 ug/ml



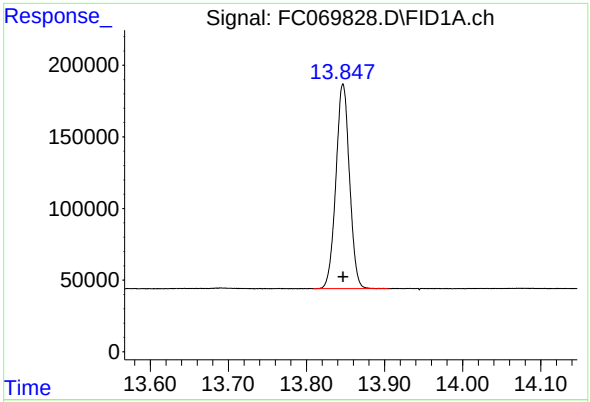
#11 n-Heneicosane (C21)

R.T.: 13.261 min
Delta R.T.: 0.000 min
Response: 1721908
Conc: 9.93 ug/ml



#12 1-chlorooctadecane (SURR)

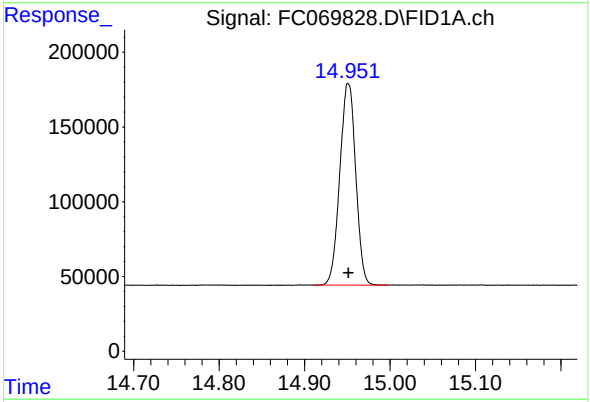
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 1510608
Conc: 9.92 ug/ml



#13 n-Docosane (C22)

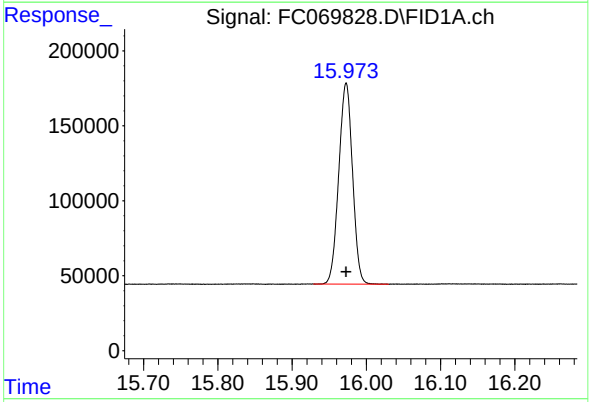
R.T.: 13.847 min
Delta R.T.: 0.000 min
Response: 1730466
Conc: 9.92 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



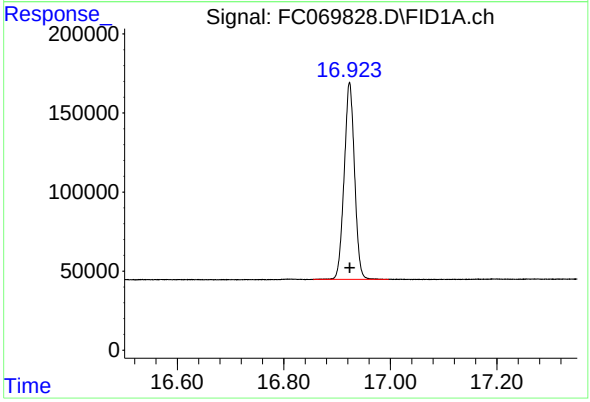
#14 n-Tetracosane (C24)

R.T.: 14.951 min
Delta R.T.: 0.000 min
Response: 1747122
Conc: 9.91 ug/ml



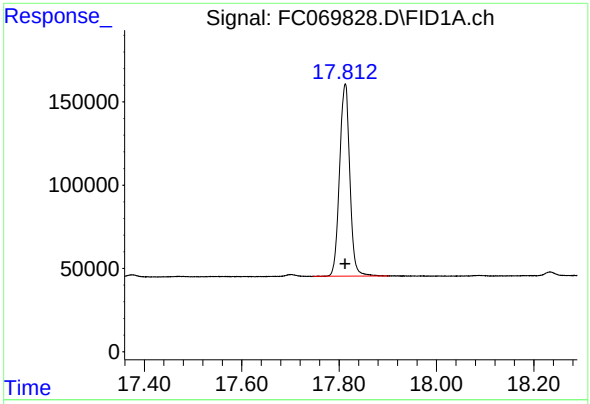
#15 n-Hexacosane (C26)

R.T.: 15.973 min
Delta R.T.: 0.000 min
Response: 1725760
Conc: 9.92 ug/ml



#16 n-Octacosane (C28)

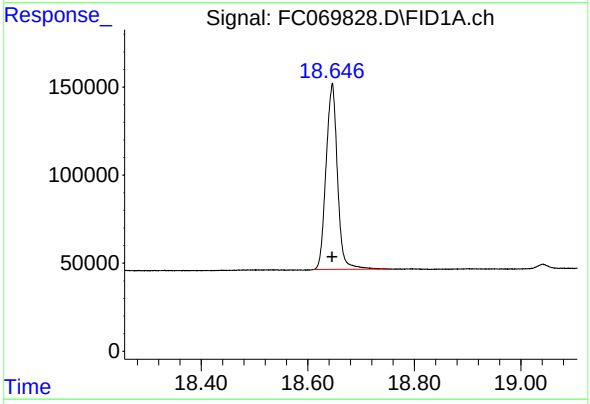
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1682895
Conc: 9.97 ug/ml



#17 n-Tricontane (C30)

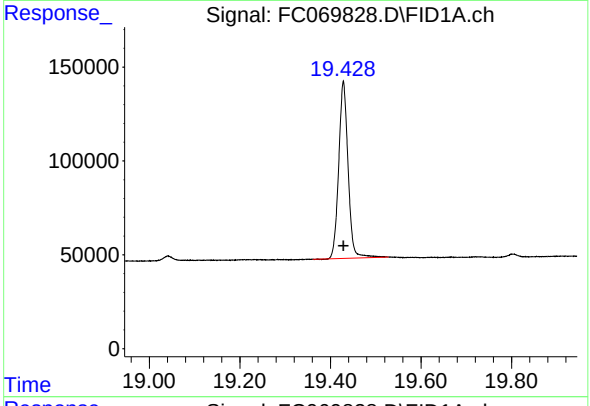
R.T.: 17.812 min
Delta R.T.: 0.000 min
Response: 1680498
Conc: 10.08 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



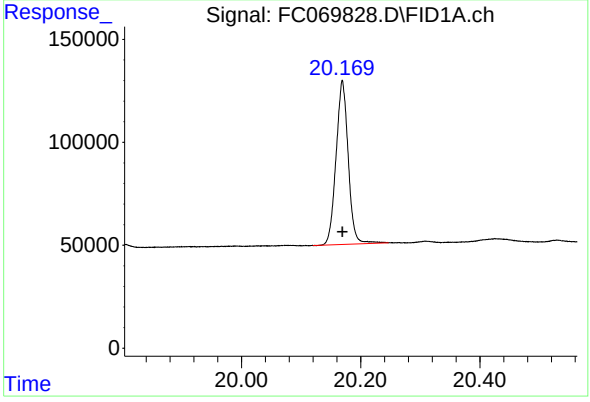
#18 n-Dotriacontane (C32)

R.T.: 18.646 min
Delta R.T.: 0.000 min
Response: 1566941
Conc: 10.16 ug/ml



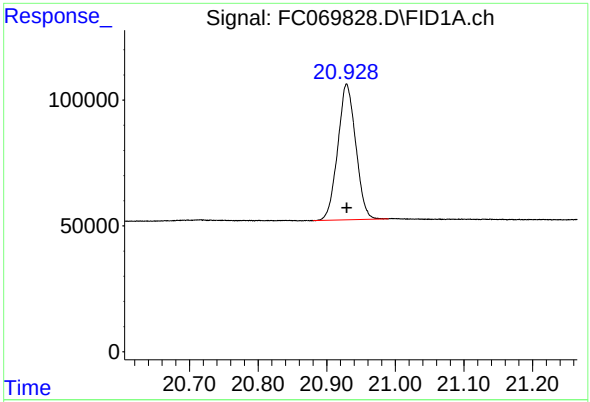
#19 n-Tetratriacontane (C34)

R.T.: 19.429 min
Delta R.T.: 0.000 min
Response: 1350605
Conc: 10.08 ug/ml



#20 n-Hexatriacontane (C36)

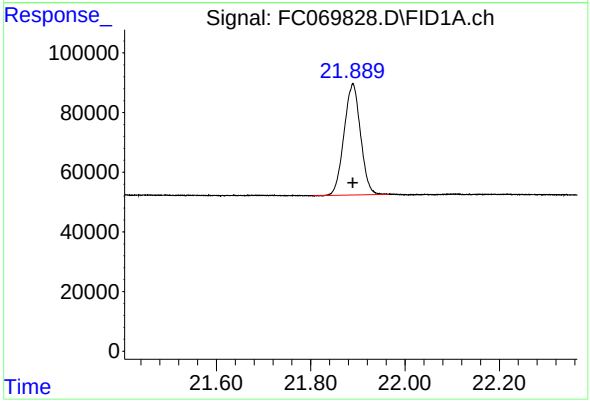
R.T.: 20.169 min
Delta R.T.: 0.000 min
Response: 1124746
Conc: 10.33 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.929 min
Delta R.T.: 0.000 min
Response: 982164
Conc: 10.55 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.889 min
Delta R.T.: 0.000 min
Response: 904610
Conc: 10.83 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069828.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 12:47
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.400	3.372	3.453	BB	154553	1287588	70.47%	3.900%
2	4.472	4.435	4.528	BB	144409	1326423	72.60%	4.018%
3	6.066	6.032	6.150	BB	157369	1492245	81.67%	4.520%
4	6.495	6.452	6.547	BB	146009	1378664	75.46%	4.176%
5	7.124	7.085	7.225	BB	143041	1473925	80.67%	4.465%
6	8.291	8.257	8.367	BB	137646	1453833	79.57%	4.404%
7	9.894	9.855	9.980	BB	146021	1605537	87.87%	4.863%
8	11.337	11.292	11.402	BB	154003	1715153	93.87%	5.195%
9	11.659	11.625	11.713	BB	168825	1827092	100.00%	5.534%
10	12.648	12.610	12.702	BB	145826	1724242	94.37%	5.223%
11	13.094	13.058	13.143	BB	132328	1510608	82.68%	4.576%
12	13.261	13.222	13.315	BB	144607	1721908	94.24%	5.216%
13	13.847	13.808	13.905	BB	142806	1730466	94.71%	5.242%
14	14.951	14.910	14.998	BB	134538	1747122	95.62%	5.292%
15	15.973	15.928	16.030	BB	134472	1725760	94.45%	5.228%
16	16.923	16.855	16.997	BB	124447	1682895	92.11%	5.098%
17	17.812	17.747	17.902	BB	115227	1680498	91.98%	5.090%
18	18.646	18.610	18.752	BB	104813	1566941	85.76%	4.746%
19	19.429	19.362	19.528	BB	94297	1350605	73.92%	4.091%
20	20.169	20.120	20.247	BB	79555	1124746	61.56%	3.407%
21	20.929	20.880	20.990	BB	53970	982164	53.76%	2.975%
22	21.889	21.805	21.965	BB	37448	904610	49.51%	2.740%
			Sum of corrected areas:			33013024		

Aliphatic EPH 092325.M Tue Sep 23 15:03:07 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 23 14:55:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:55:28 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)	11.658	1026900	5.483 ug/ml
Spiked Amount	50.000		Recovery =	10.97%
12)	S 1-chlorooctadecane (S...	13.094	900913	5.705 ug/ml
Spiked Amount	50.000		Recovery =	11.41%
	Target Compounds			
1)	T n-Nonane (C9)	3.400	690670	5.388 ug/ml
2)	T n-Decane (C10)	4.472	714177	5.375 ug/ml
3)	T A~Naphthalene (C11.7)	6.067	789322	5.317 ug/ml
4)	T n-Dodecane (C12)	6.494	745101	5.341 ug/ml
5)	T A~2-methylnaphthalene...	7.124	780078	5.284 ug/ml
6)	T n-Tetradecane (C14)	8.291	798401	5.383 ug/ml
7)	T n-Hexadecane (C16)	9.894	902897	5.471 ug/ml
8)	T n-Octadecane (C18)	11.336	1003305	5.630 ug/ml
10)	T n-Eicosane (C20)	12.647	1035429	5.749 ug/ml
11)	T n-Heneicosane (C21)	13.259	1041203	5.774 ug/ml
13)	T n-Docosane (C22)	13.846	1053142	5.797 ug/ml
14)	T n-Tetracosane (C24)	14.950	1073474	5.834 ug/ml
15)	T n-Hexacosane (C26)	15.972	1060487	5.841 ug/ml
16)	T n-Octacosane (C28)	16.923	1036040	5.869 ug/ml
17)	T n-Tricontane (C30)	17.811	1040062	5.942 ug/ml
18)	T n-Dotriacontane (C32)	18.644	960150	5.935 ug/ml
19)	T n-Tetratriacontane (C34)	19.428	814137	5.826 ug/ml
20)	T n-Hexatriacontane (C36)	20.168	645568	5.718 ug/ml
21)	T n-Octatriacontane (C38)	20.930	550260	5.704 ug/ml
22)	T n-Tetracontane (C40)	21.888	483358	5.612 ug/ml

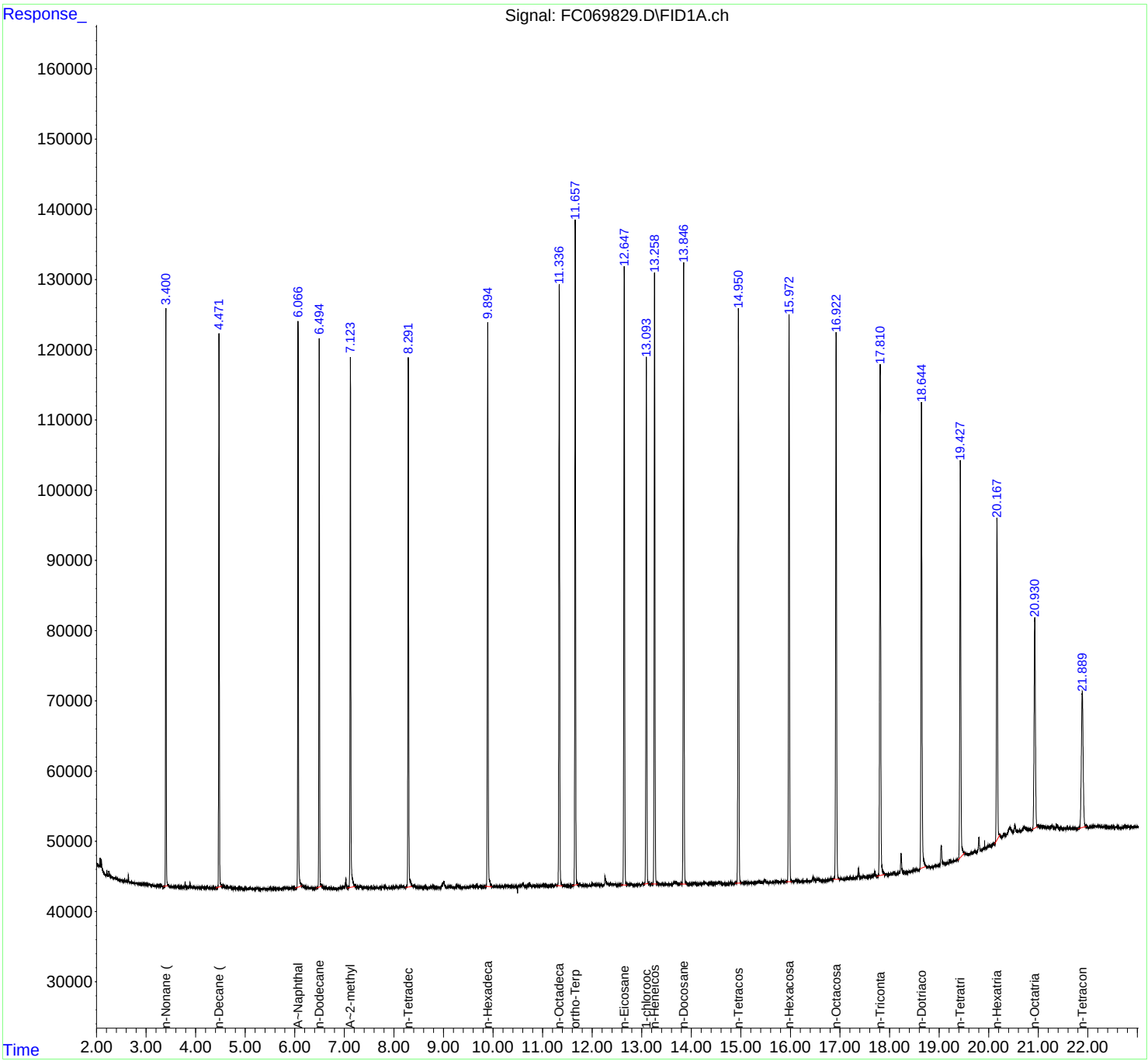
(f)=RT Delta > 1/2 Window (m)=manual int.

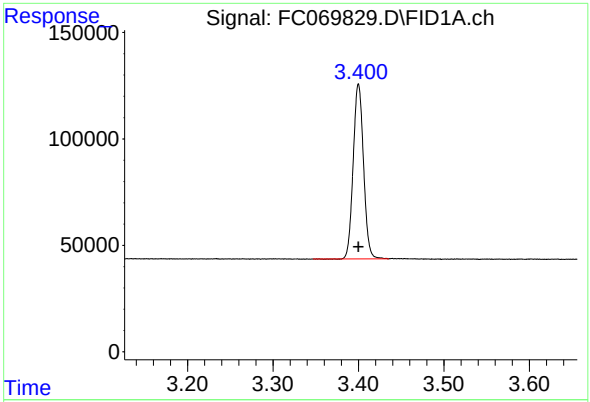
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 23 14:55:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:55:28 2025
Response via : Initial Calibration
Integrator: ChemStation

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

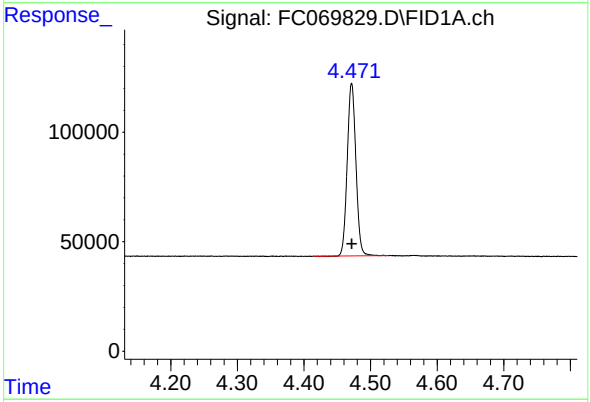




#1 n-Nonane (C9)

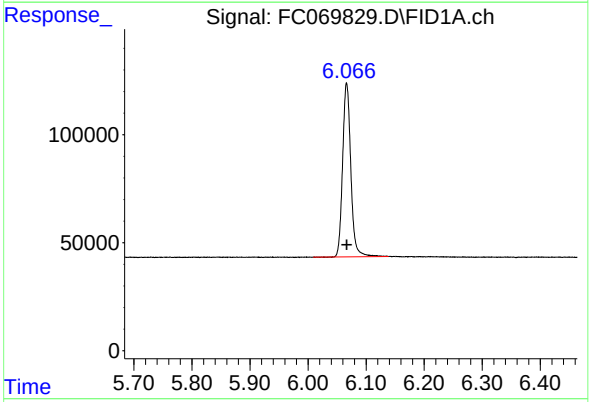
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 690670
Conc: 5.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



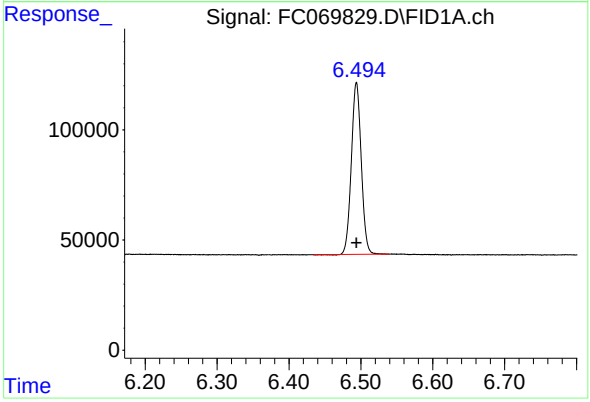
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 714177
Conc: 5.37 ug/ml



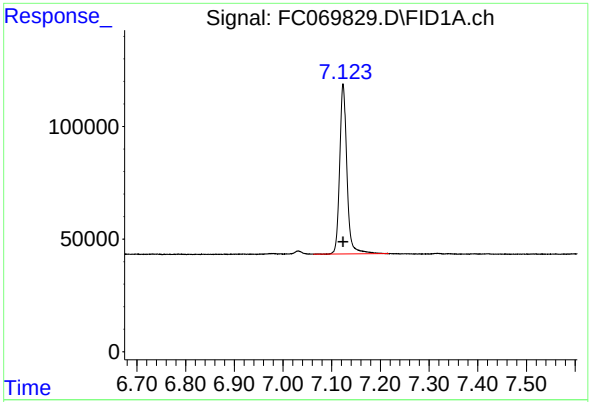
#3 A~Naphthalene (C11.7)

R.T.: 6.067 min
Delta R.T.: 0.000 min
Response: 789322
Conc: 5.32 ug/ml



#4 n-Dodecane (C12)

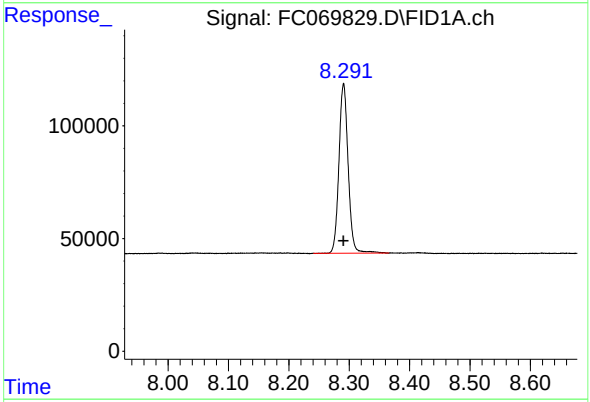
R.T.: 6.494 min
Delta R.T.: 0.000 min
Response: 745101
Conc: 5.34 ug/ml



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

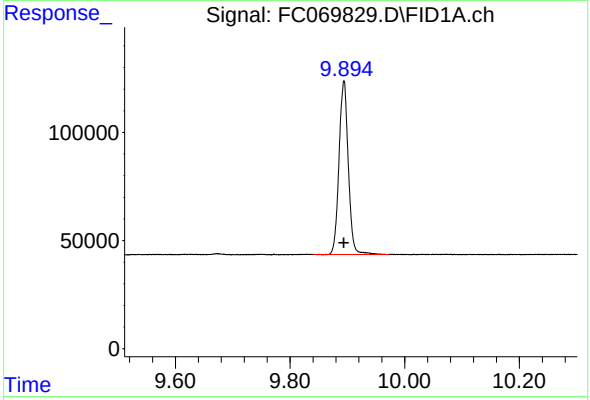
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 780078
Conc: 5.28 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



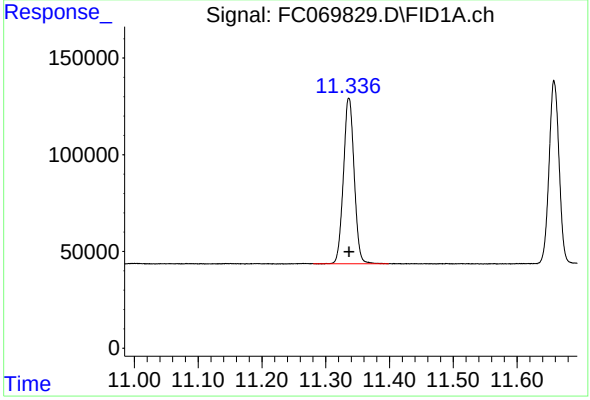
#6 n-Tetradecane (C14)

R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 798401
Conc: 5.38 ug/ml



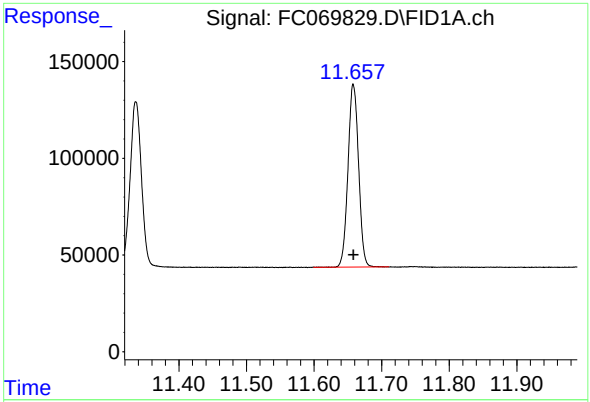
#7 n-Hexadecane (C16)

R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 902897
Conc: 5.47 ug/ml



#8 n-Octadecane (C18)

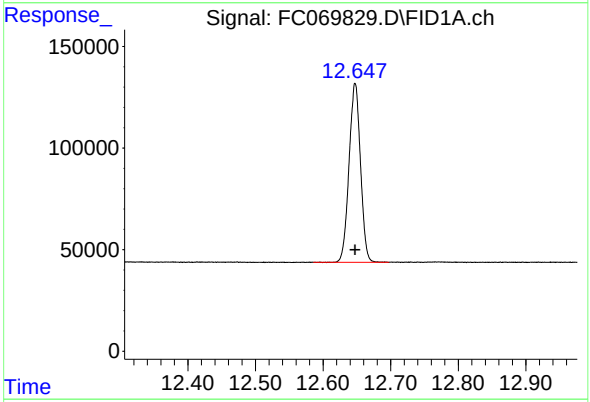
R.T.: 11.336 min
Delta R.T.: 0.000 min
Response: 1003305
Conc: 5.63 ug/ml



#9 ortho-Terphenyl (SURR)

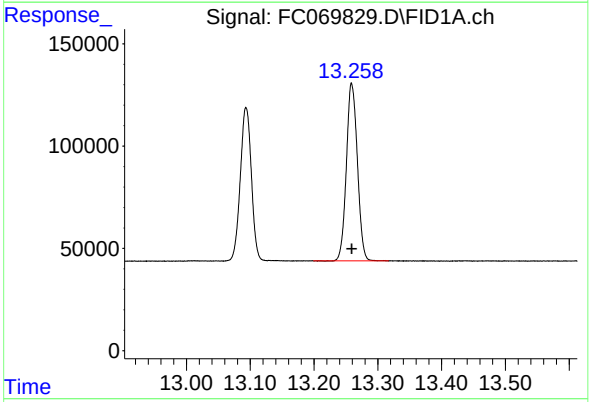
R.T.: 11.658 min
Delta R.T.: 0.000 min
Response: 1026900
Conc: 5.48 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



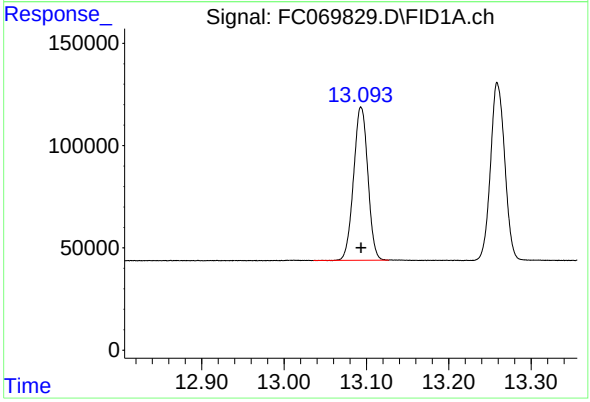
#10 n-Eicosane (C20)

R.T.: 12.647 min
Delta R.T.: 0.000 min
Response: 1035429
Conc: 5.75 ug/ml



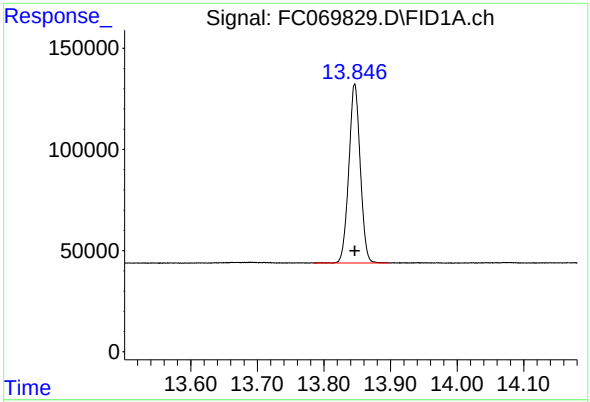
#11 n-Heneicosane (C21)

R.T.: 13.259 min
Delta R.T.: 0.000 min
Response: 1041203
Conc: 5.77 ug/ml



#12 1-chlorooctadecane (SURR)

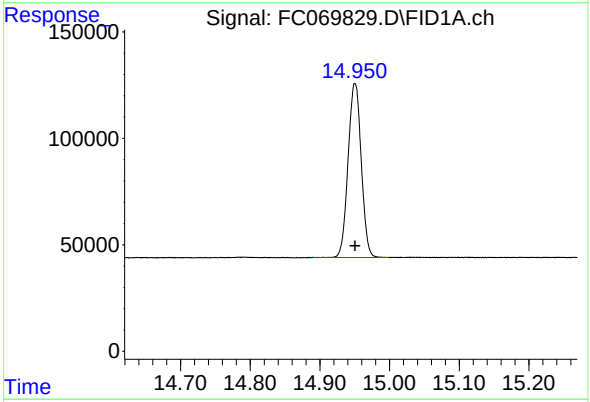
R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 900913
Conc: 5.70 ug/ml



#13 n-Docosane (C22)

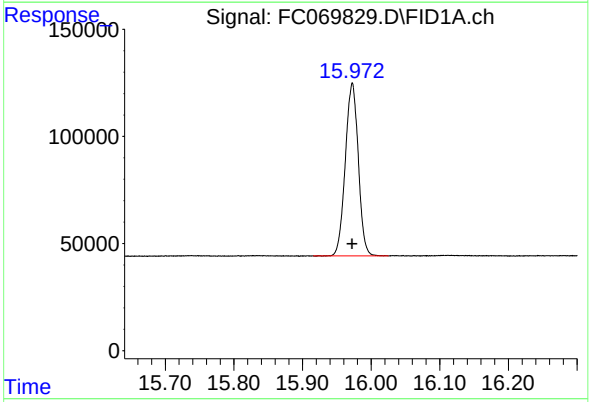
R.T.: 13.846 min
Delta R.T.: 0.000 min
Response: 1053142
Conc: 5.80 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



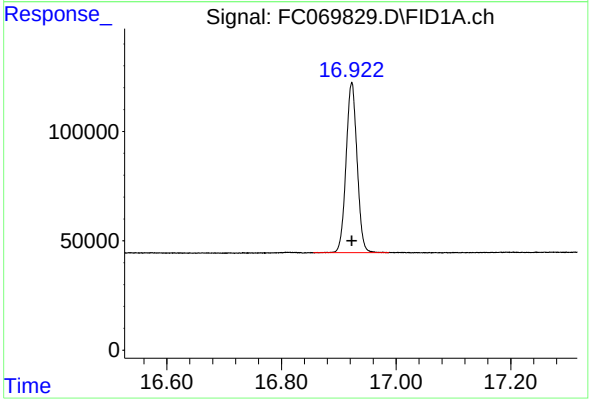
#14 n-Tetracosane (C24)

R.T.: 14.950 min
Delta R.T.: 0.000 min
Response: 1073474
Conc: 5.83 ug/ml



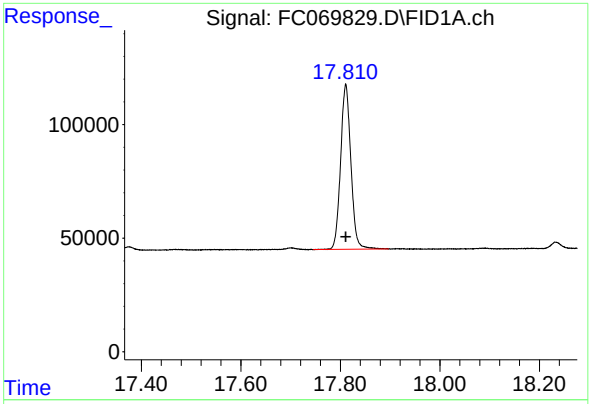
#15 n-Hexacosane (C26)

R.T.: 15.972 min
Delta R.T.: 0.000 min
Response: 1060487
Conc: 5.84 ug/ml



#16 n-Octacosane (C28)

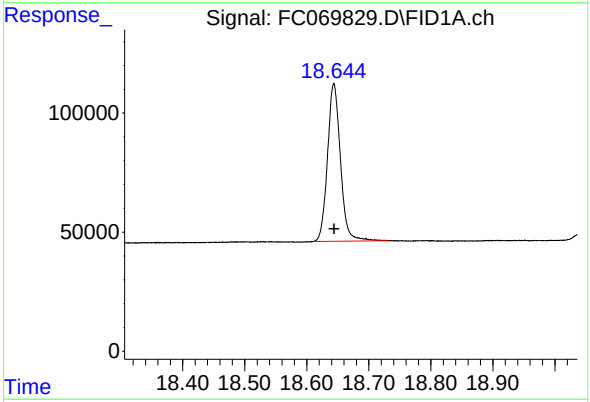
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 1036040
Conc: 5.87 ug/ml



#17 n-Tricontane (C30)

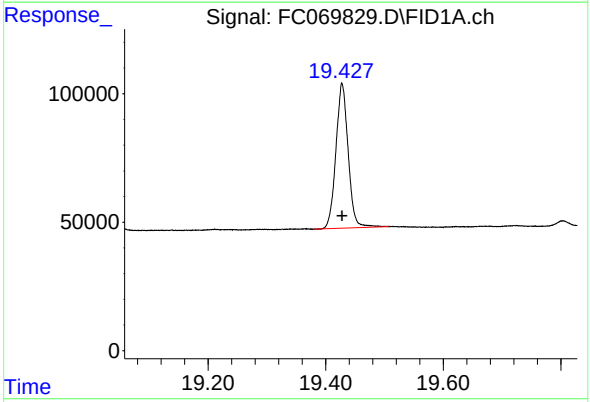
R.T.: 17.811 min
Delta R.T.: 0.000 min
Response: 1040062
Conc: 5.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



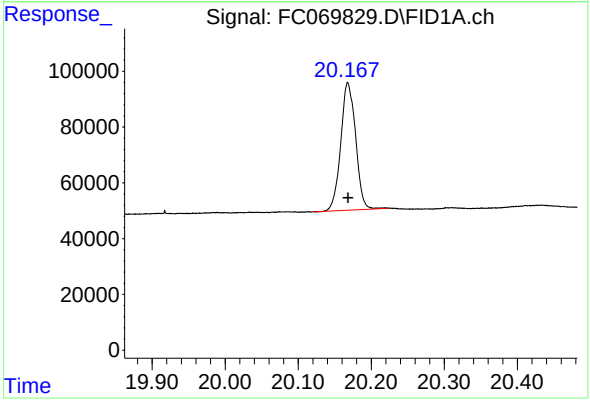
#18 n-Dotriacontane (C32)

R.T.: 18.644 min
Delta R.T.: 0.000 min
Response: 960150
Conc: 5.93 ug/ml



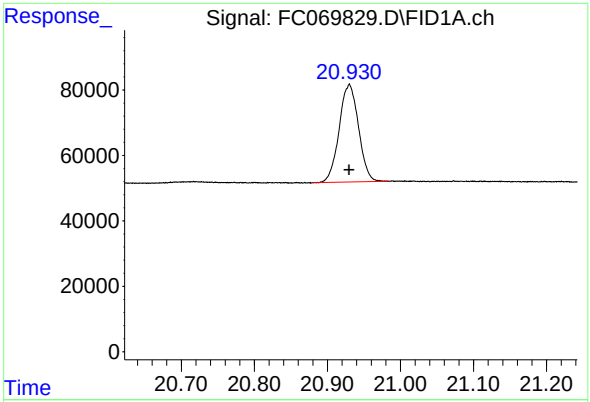
#19 n-Tetratriacontane (C34)

R.T.: 19.428 min
Delta R.T.: 0.000 min
Response: 814137
Conc: 5.83 ug/ml



#20 n-Hexatriacontane (C36)

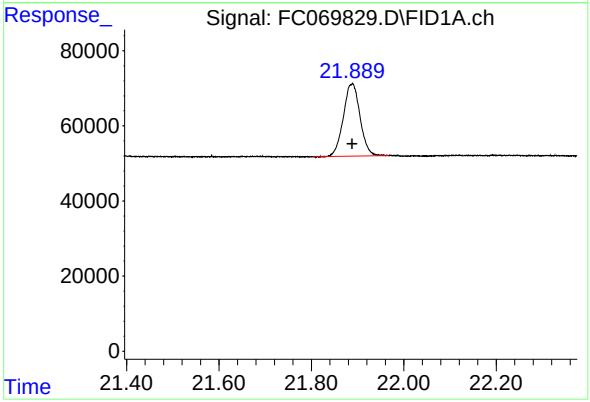
R.T.: 20.168 min
Delta R.T.: 0.000 min
Response: 645568
Conc: 5.72 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.930 min
Delta R.T.: 0.000 min
Response: 550260
Conc: 5.70 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 483358
Conc: 5.61 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069829.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 13:33
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.400	3.347	3.435	BB	82103	690670	64.34%	3.608%
2	4.472	4.414	4.527	BB	78789	714177	66.53%	3.730%
3	6.067	6.009	6.139	BB	80115	789322	73.53%	4.123%
4	6.494	6.434	6.539	BB	78051	745101	69.41%	3.892%
5	7.124	7.062	7.217	BB	75306	780078	72.67%	4.075%
6	8.291	8.240	8.365	BB	75214	798401	74.38%	4.170%
7	9.894	9.840	9.972	BB	80462	902897	84.11%	4.716%
8	11.336	11.280	11.399	BB	85606	1003305	93.46%	5.241%
9	11.658	11.599	11.710	BB	93859	1026900	95.66%	5.364%
10	12.647	12.585	12.697	BB	88391	1035429	96.46%	5.408%
11	13.094	13.035	13.127	BB	74816	900913	83.92%	4.706%
12	13.259	13.199	13.317	BB	86706	1041203	96.99%	5.438%
13	13.846	13.784	13.897	BB	88668	1053142	98.11%	5.501%
14	14.950	14.890	14.999	BB	81777	1073474	100.00%	5.607%
15	15.972	15.915	16.025	BB	80750	1060487	98.79%	5.539%
16	16.923	16.855	16.987	BB	77593	1036040	96.51%	5.412%
17	17.811	17.745	17.897	BB	72669	1040062	96.89%	5.433%
18	18.644	18.610	18.732	BB	66291	960150	89.44%	5.015%
19	19.428	19.379	19.507	BB	55983	814137	75.84%	4.252%
20	20.168	20.120	20.224	BB	45474	645568	60.14%	3.372%
21	20.930	20.880	20.984	BB	30013	550260	51.26%	2.874%
22	21.888	21.804	21.967	BB	19339	483358	45.03%	2.525%
			Sum of corrected areas:			19145073		

Aliphatic EPH 092325.M Tue Sep 23 15:02:48 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 23 14:57:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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			
9)	S ortho-Terphenyl (SURR)	11.662	3944296	21.059 ug/ml
Spiked Amount	50.000		Recovery =	42.12%
12)	S 1-chlorooctadecane (S...	13.096	3385642	21.439 ug/ml
Spiked Amount	50.000		Recovery =	42.88%
	Target Compounds			
1)	T n-Nonane (C9)	3.400	2587945	20.188 ug/ml
2)	T n-Decane (C10)	4.472	2696976	20.296 ug/ml
3)	T A~Naphthalene (C11.7)	6.066	3010987	20.283 ug/ml
4)	T n-Dodecane (C12)	6.495	2862396	20.519 ug/ml
5)	T A~2-methylnaphthalene...	7.124	3005230	20.355 ug/ml
6)	T n-Tetradecane (C14)	8.292	3075270	20.734 ug/ml
7)	T n-Hexadecane (C16)	9.895	3478786	21.080 ug/ml
8)	T n-Octadecane (C18)	11.339	3824558	21.460 ug/ml
10)	T n-Eicosane (C20)	12.650	3869114	21.482 ug/ml
11)	T n-Heneicosane (C21)	13.262	3873195	21.480 ug/ml
13)	T n-Docosane (C22)	13.849	3899823	21.466 ug/ml
14)	T n-Tetracosane (C24)	14.952	3930964	21.364 ug/ml
15)	T n-Hexacosane (C26)	15.975	3861498	21.268 ug/ml
16)	T n-Octacosane (C28)	16.926	3741360	21.194 ug/ml
17)	T n-Tricontane (C30)	17.814	3698274	21.129 ug/ml
18)	T n-Dotriacontane (C32)	18.647	3416454	21.117 ug/ml
19)	T n-Tetratriacontane (C34)	19.431	2923117	20.916 ug/ml
20)	T n-Hexatriacontane (C36)	20.170	2353381	20.845 ug/ml
21)	T n-Octatriacontane (C38)	20.932	1955011	20.266 ug/ml
22)	T n-Tetracontane (C40)	21.891	1713231	19.892 ug/ml

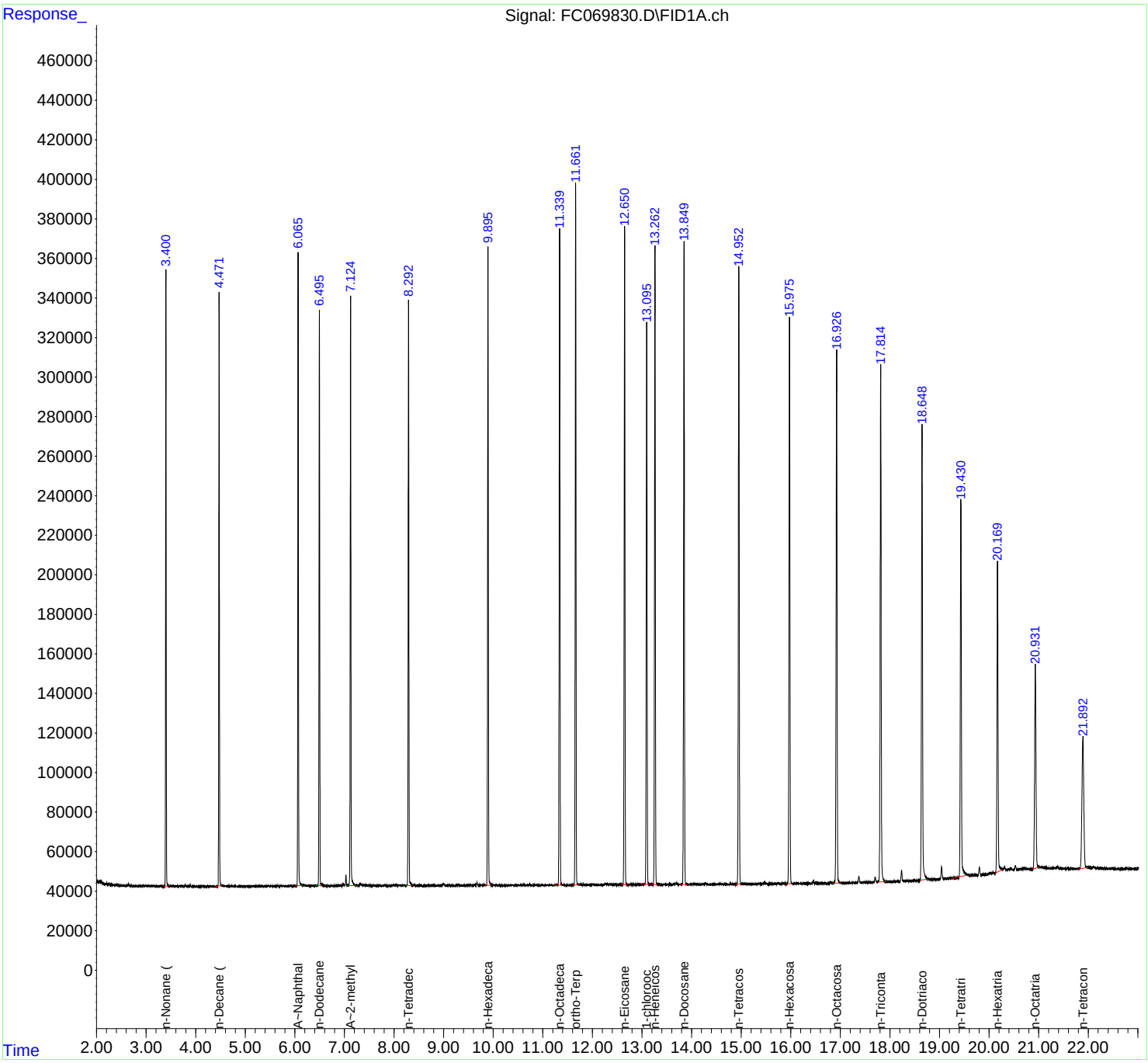
(f)=RT Delta > 1/2 Window (m)=manual int.

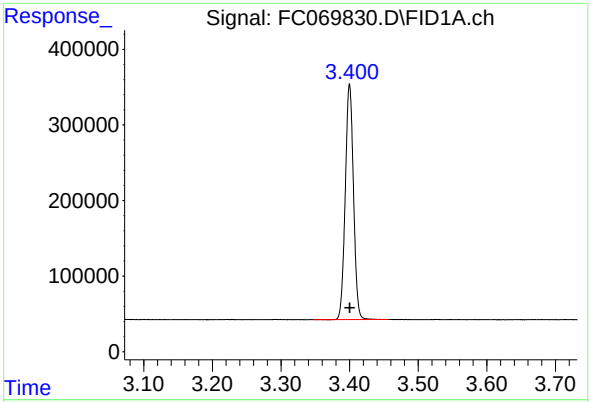
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 23 14:57:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

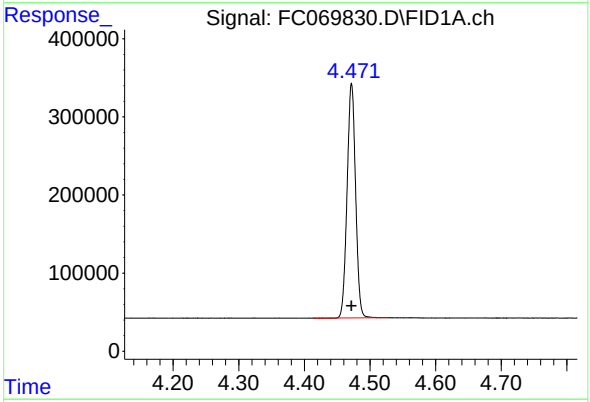




#1 n-Nonane (C9)

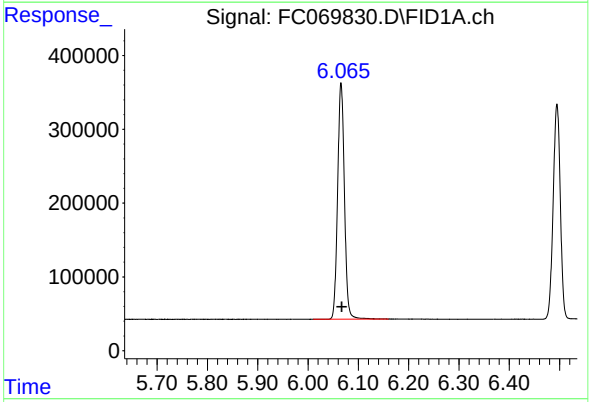
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 2587945
Conc: 20.19 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



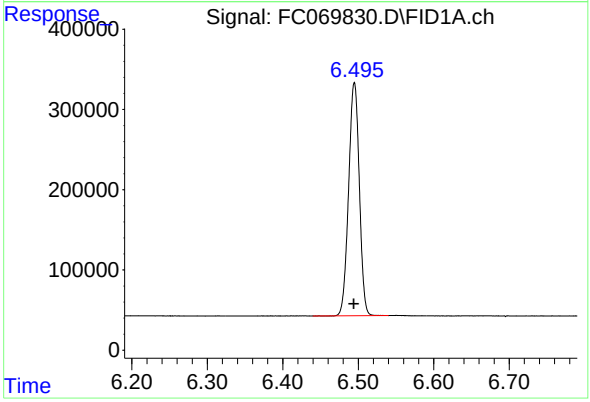
#2 n-Decane (C10)

R.T.: 4.472 min
Delta R.T.: 0.000 min
Response: 2696976
Conc: 20.30 ug/ml



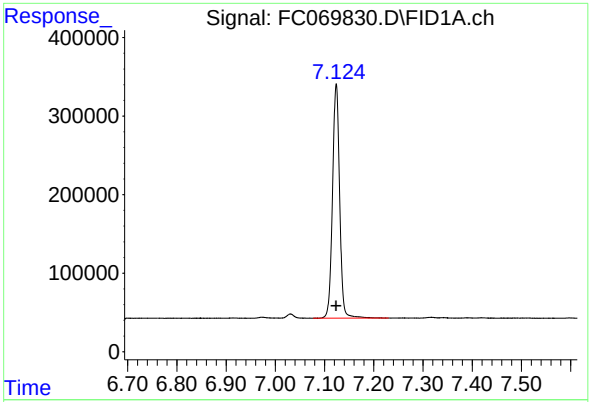
#3 A~Naphthalene (C11.7)

R.T.: 6.066 min
Delta R.T.: 0.000 min
Response: 3010987
Conc: 20.28 ug/ml



#4 n-Dodecane (C12)

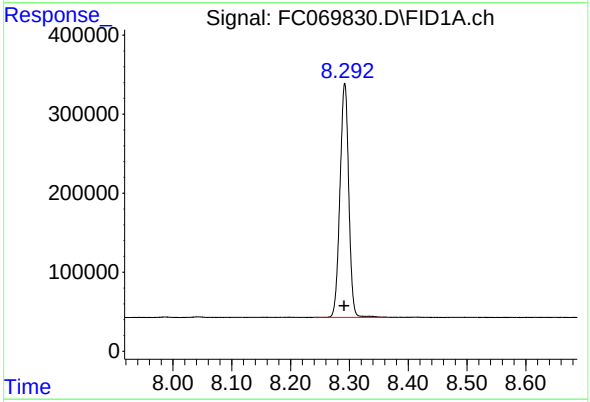
R.T.: 6.495 min
Delta R.T.: 0.000 min
Response: 2862396
Conc: 20.52 ug/ml



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

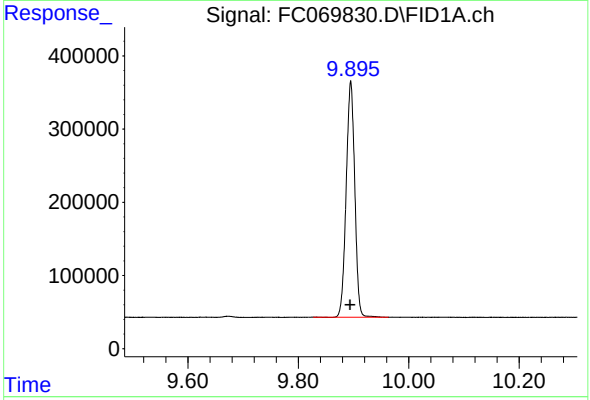
R.T.: 7.124 min
Delta R.T.: 0.000 min
Response: 3005230
Conc: 20.35 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



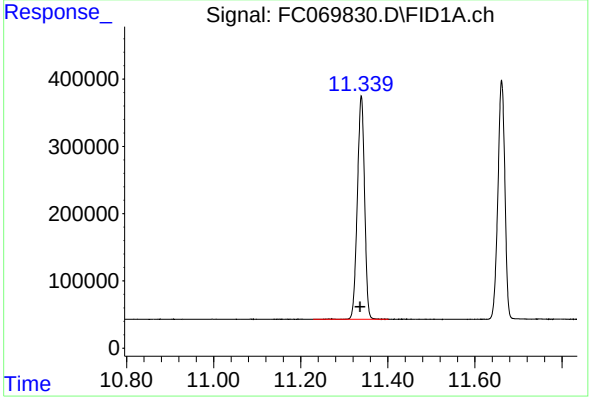
#6 n-Tetradecane (C14)

R.T.: 8.292 min
Delta R.T.: 0.001 min
Response: 3075270
Conc: 20.73 ug/ml



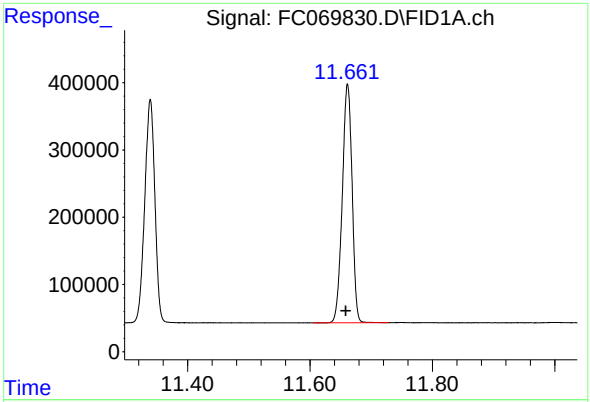
#7 n-Hexadecane (C16)

R.T.: 9.895 min
Delta R.T.: 0.001 min
Response: 3478786
Conc: 21.08 ug/ml



#8 n-Octadecane (C18)

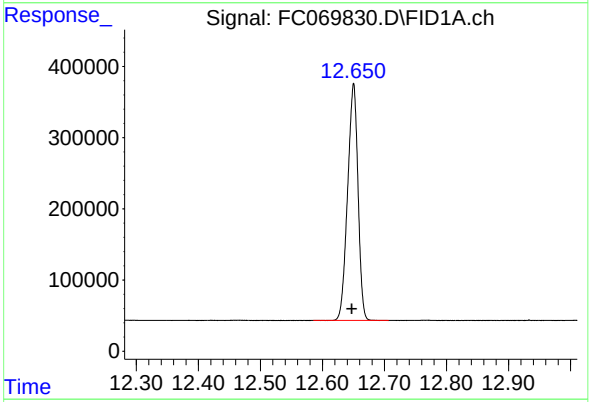
R.T.: 11.339 min
Delta R.T.: 0.003 min
Response: 3824558
Conc: 21.46 ug/ml



#9 ortho-Terphenyl (SURR)

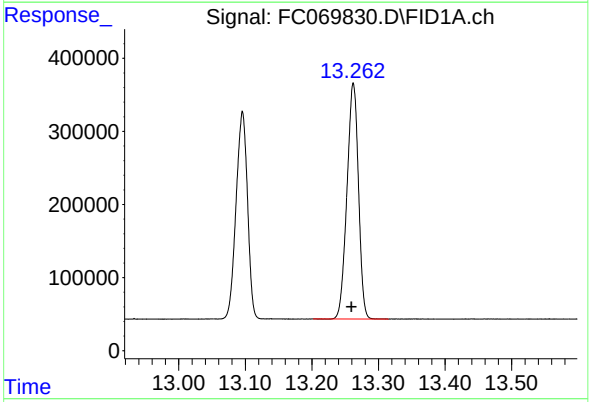
R.T.: 11.662 min
Delta R.T.: 0.003 min
Response: 3944296
Conc: 21.06 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



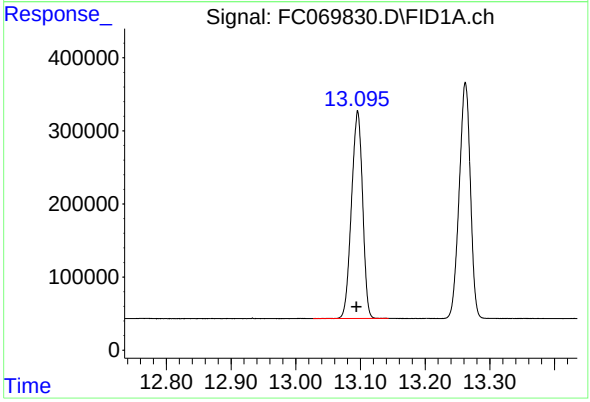
#10 n-Eicosane (C20)

R.T.: 12.650 min
Delta R.T.: 0.003 min
Response: 3869114
Conc: 21.48 ug/ml



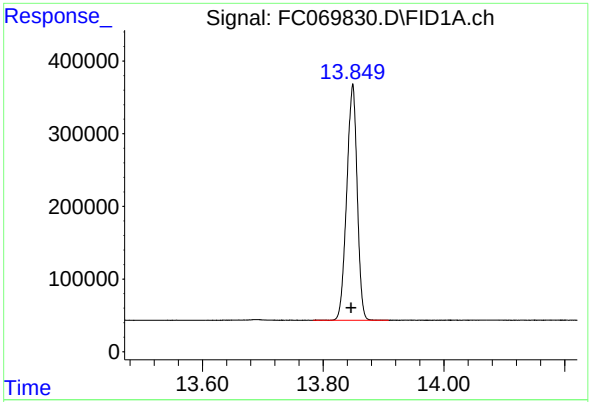
#11 n-Heneicosane (C21)

R.T.: 13.262 min
Delta R.T.: 0.003 min
Response: 3873195
Conc: 21.48 ug/ml



#12 1-chlorooctadecane (SURR)

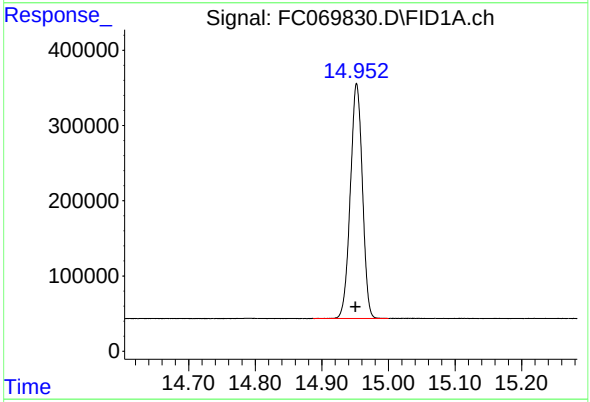
R.T.: 13.096 min
Delta R.T.: 0.002 min
Response: 3385642
Conc: 21.44 ug/ml



#13 n-Docosane (C22)

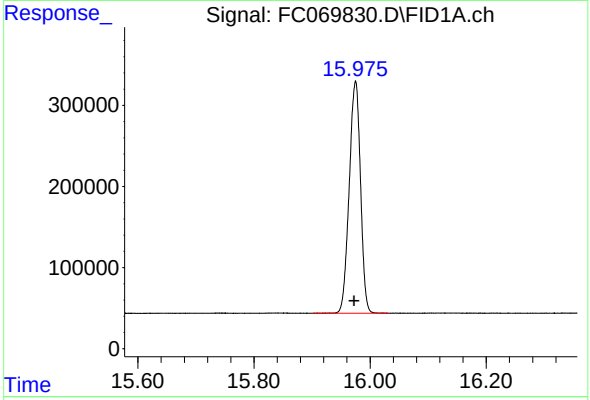
R.T.: 13.849 min
Delta R.T.: 0.002 min
Response: 3899823
Conc: 21.47 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



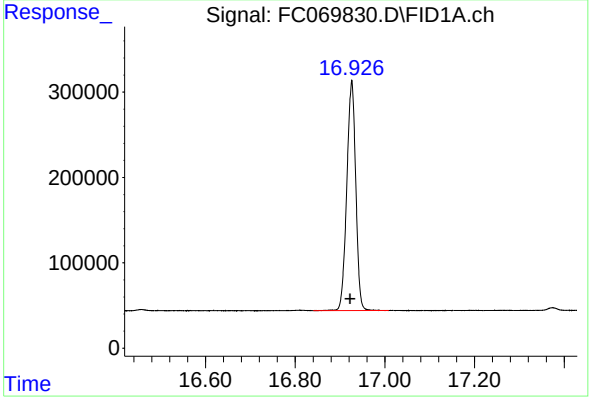
#14 n-Tetracosane (C24)

R.T.: 14.952 min
Delta R.T.: 0.002 min
Response: 3930964
Conc: 21.36 ug/ml



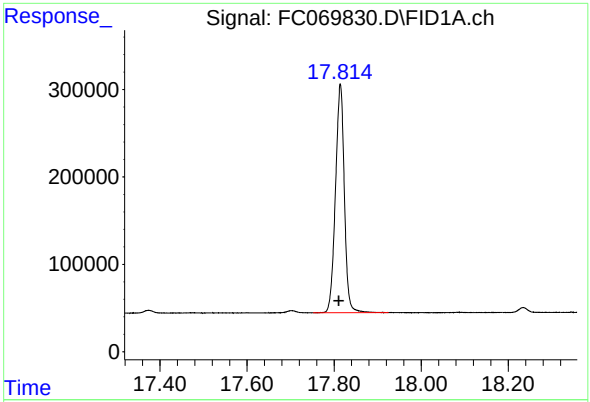
#15 n-Hexacosane (C26)

R.T.: 15.975 min
Delta R.T.: 0.002 min
Response: 3861498
Conc: 21.27 ug/ml



#16 n-Octacosane (C28)

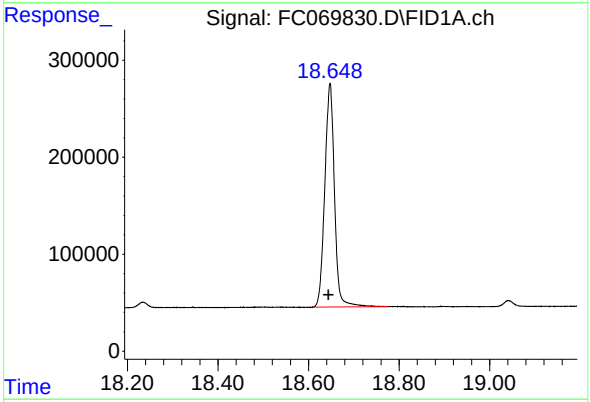
R.T.: 16.926 min
Delta R.T.: 0.003 min
Response: 3741360
Conc: 21.19 ug/ml



#17 n-Tricontane (C30)

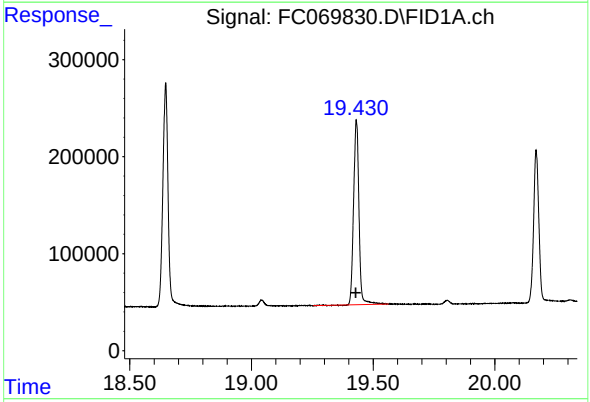
R.T.: 17.814 min
Delta R.T.: 0.003 min
Response: 3698274
Conc: 21.13 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



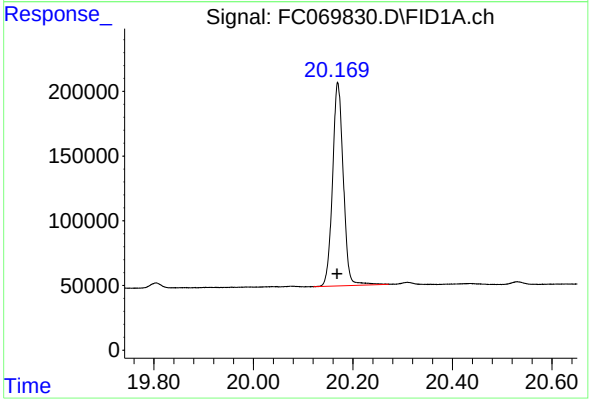
#18 n-Dotriacontane (C32)

R.T.: 18.647 min
Delta R.T.: 0.004 min
Response: 3416454
Conc: 21.12 ug/ml



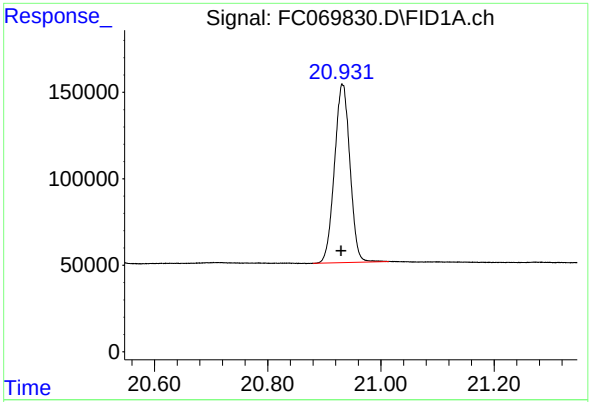
#19 n-Tetratriacontane (C34)

R.T.: 19.431 min
Delta R.T.: 0.003 min
Response: 2923117
Conc: 20.92 ug/ml



#20 n-Hexatriacontane (C36)

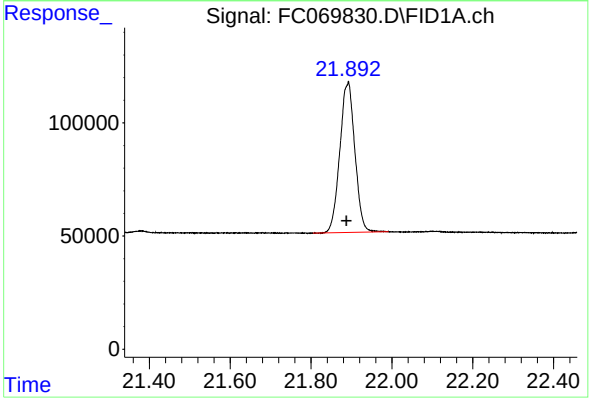
R.T.: 20.170 min
Delta R.T.: 0.001 min
Response: 2353381
Conc: 20.84 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.932 min
Delta R.T.: 0.002 min
Response: 1955011
Conc: 20.27 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.891 min
Delta R.T.: 0.003 min
Response: 1713231
Conc: 19.89 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092325AL\
Data File : FC069830.D
Signal(s) : FID1A.ch
Acq On : 23 Sep 2025 14:19
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.400	3.347	3.457	BB	311244	2587945	65.61%	3.639%
2	4.472	4.413	4.528	BB	300413	2696976	68.38%	3.793%
3	6.066	6.010	6.160	BB	320489	3010987	76.34%	4.234%
4	6.495	6.440	6.540	BB	291119	2862396	72.57%	4.025%
5	7.124	7.077	7.230	BB	298154	3005230	76.19%	4.226%
6	8.292	8.238	8.367	BB	296362	3075270	77.97%	4.325%
7	9.895	9.827	9.963	BB	322917	3478786	88.20%	4.892%
8	11.339	11.228	11.402	BB	332423	3824558	96.96%	5.379%
9	11.662	11.605	11.728	BB	354767	3944296	100.00%	5.547%
10	12.650	12.585	12.707	BB	333811	3869114	98.09%	5.441%
11	13.096	13.027	13.143	BB	283933	3385642	85.84%	4.761%
12	13.262	13.202	13.315	BB	322849	3873195	98.20%	5.447%
13	13.849	13.783	13.908	BB	323771	3899823	98.87%	5.484%
14	14.952	14.887	15.000	BB	312322	3930964	99.66%	5.528%
15	15.975	15.902	16.032	BB	287056	3861498	97.90%	5.431%
16	16.926	16.840	17.008	BB	271021	3741360	94.85%	5.262%
17	17.814	17.752	17.925	BB	261257	3698274	93.76%	5.201%
18	18.647	18.610	18.777	BB	230553	3416454	86.62%	4.805%
19	19.431	19.253	19.563	BB	188373	2923117	74.11%	4.111%
20	20.170	20.120	20.272	BB	156767	2353381	59.67%	3.310%
21	20.932	20.880	21.013	BB	103062	1955011	49.57%	2.749%
22	21.891	21.805	21.992	BB	66476	1713231	43.44%	2.409%
			Sum of corrected areas:			71107505		

Aliphatic EPH 092325.M Tue Sep 23 15:02:31 2025

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

Inital Calibration Report for SequenceID : FD090425AR

AreaCount

Parameter Range	FD049718.D	FD049719.D	FD049720.D	FD049721.D	FD049722.D	
Aromatic C10-C12	22703296.000	11086087.000	4643611.000	2277248.000	1259509.000	
Aromatic C12-C16	39984460.000	19661953.000	8193867.000	4001323.000	2175378.000	
Aromatic C16-C21	53345381.000	26489360.000	11024855.000	5315893.000	2846688.000	
Aromatic C21-C36	100704025.000	50911530.000	21618248.000	10600307.000	5791358.000	
Aromatic EPH	216737162.000	108148930.000	45480581.000	22194771.000	12072933.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	116056.185	5.027				
Aromatic C12-C16	135865.6606664	4.034				
Aromatic C16-C21	135770.533	3.132				
Aromatic C21-C36	118321.9011106	5.659				
Aromatic EPH	124871.5885552	4.611				

Concentration

Parameter Range	FD049718.D	FD049719.D	FD049720.D	FD049721.D	FD049722.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	FD049718.D	FD049719.D	FD049720.D	FD049721.D	FD049722.D	
Aromatic C10-C12	113516.480000	110860.870000	116090.275000	113862.400000	125950.900000	
Aromatic C12-C16	133281.533333	131079.686666	136564.450000	133377.433333	145025.200000	
Aromatic C16-C21	133363.452500	132446.800000	137810.687500	132897.325000	142334.400000	
Aromatic C21-C36	111893.361111	113136.733333	120101.377777	117781.188888	128696.844444	
Aromatic EPH	120409.534444	120165.477777	126334.947222	123304.283333	134143.700000	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049718.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 09:36
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025

Integration File: autoint1.e
Quant Time: Sep 05 06:20:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 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...	7.703	11112746	98.565 ug/ml
Spiked Amount	50.000		Recovery =	197.13%
6) S	2-Flurobiphenyl (SURR)	8.569	7949975	98.006 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	196.01%#
11) S	ortho-Terphenyl (SURR)	11.617	13622959	95.092 ug/ml
Spiked Amount	50.000		Recovery =	190.18%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.491	10441049	97.009 ug/ml
2) T	Naphthalene (C11.7)	6.037	12262247	98.452 ug/ml
3) T	2-Methylnaphthalene (...	7.093	12922112	98.860 ug/ml
5) T	Acenaphthylene (C15.06)	8.373	13531887	97.031 ug/ml
7) T	Acenaphthene (C15.5)	8.672	13530461	96.977 ug/ml
8) T	Flouorene (C16.55)	9.453	13563710	96.723 ug/ml
9) T	Phenanthrene (C19.36)	10.853	13732189	96.729 ug/ml
10) T	Anthracene (C19.43)	10.930	12946823	96.523 ug/ml
12) T	Fluoranthene (C21.85)	12.668	13257933	97.088 ug/ml
13) T	Pyrene (C20.8)	12.967	13102659	97.119 ug/ml
14) T	Benzo[a]anthracene (C...	14.839	11657187	96.783 ug/ml
15) T	Chrysene (C27.41)	14.887	11738473	96.196 ug/ml
16) T	benzo[b]fluoranthene ...	16.393	11363538	94.070 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.433	10483846	91.683 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.775	10977142	92.154 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.141	10414194	93.978 ug/ml
20) T	Dibenz[a,h]anthracene...	18.181	10061727	85.544 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.403	10749985	90.198 ug/ml

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

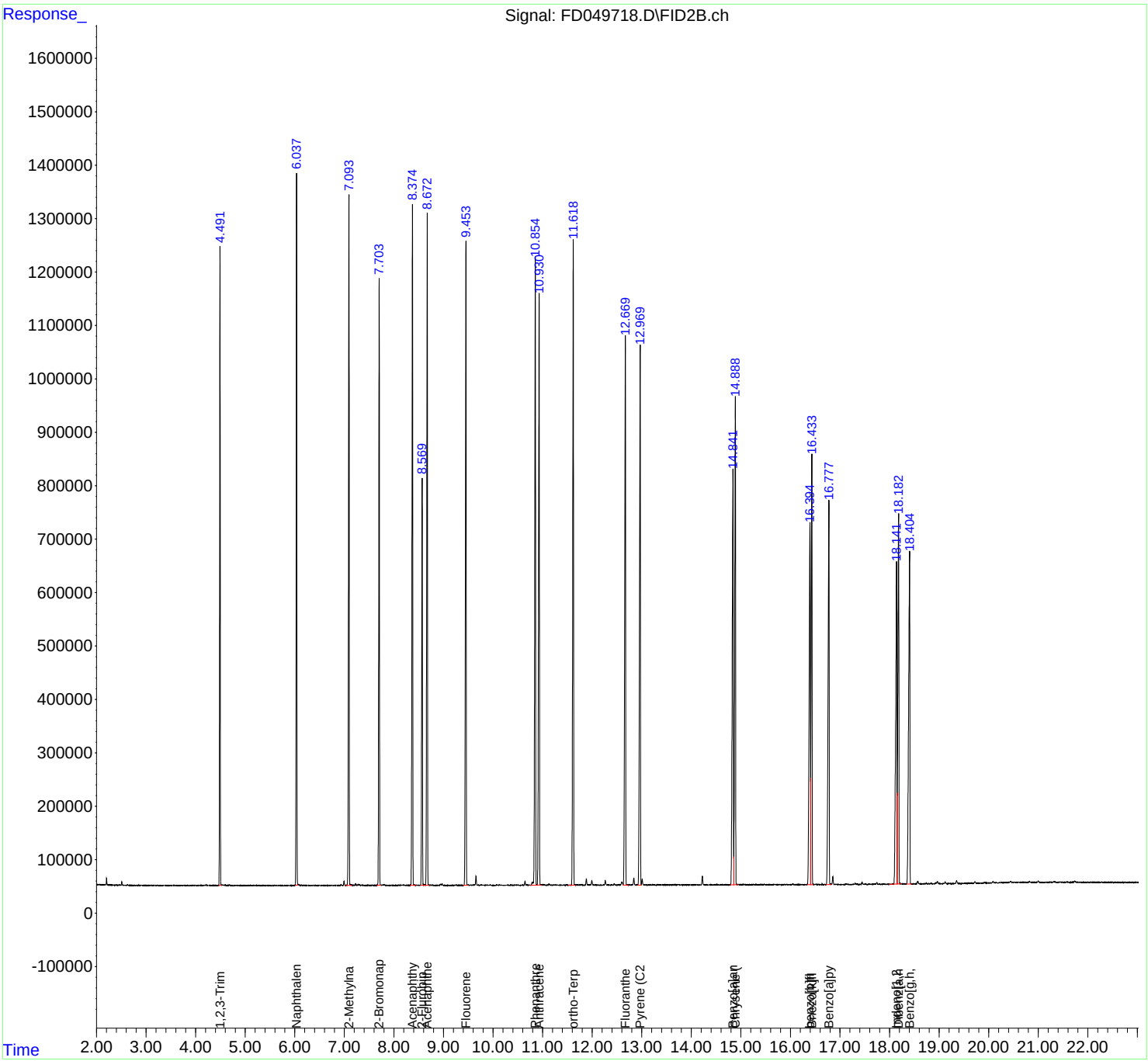
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049718.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 09:36
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

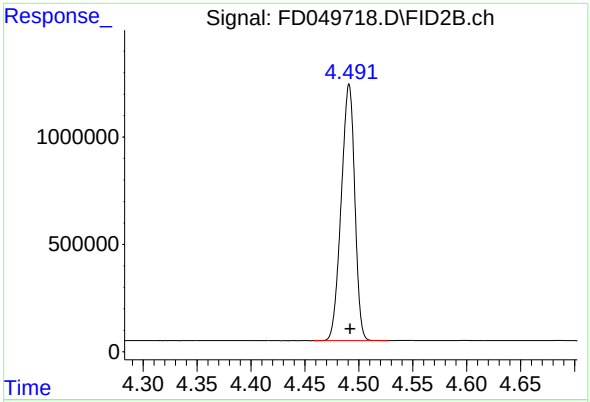
Integration File: autoint1.e
Quant Time: Sep 05 06:20:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025





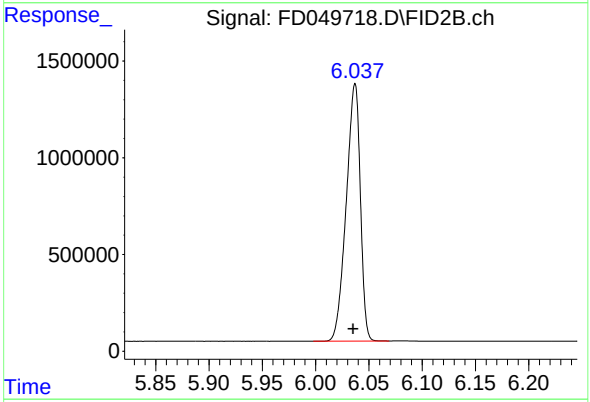
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.491 min
Delta R.T.: -0.001 min
Response: 10441049
Conc: 97.01 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

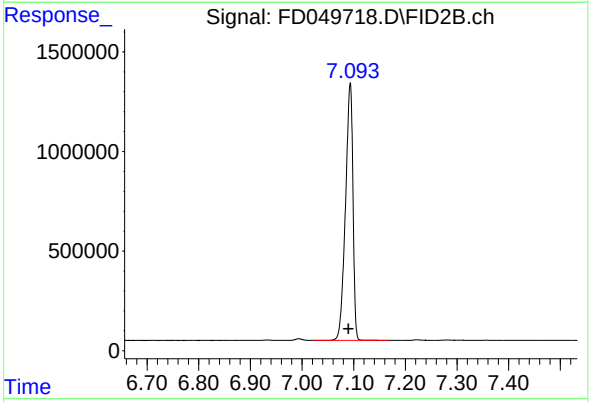
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



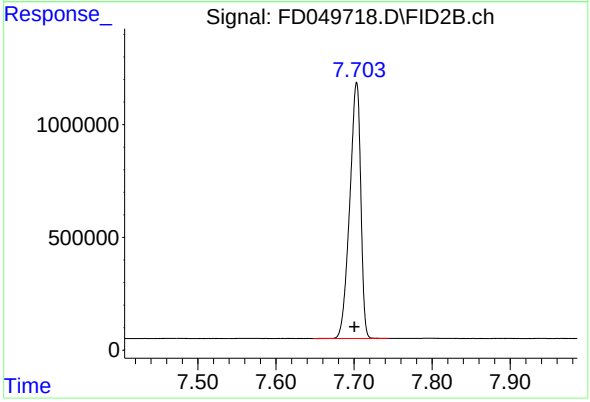
#2 Naphthalene (C11.7)

R.T.: 6.037 min
Delta R.T.: 0.001 min
Response: 12262247
Conc: 98.45 ug/ml



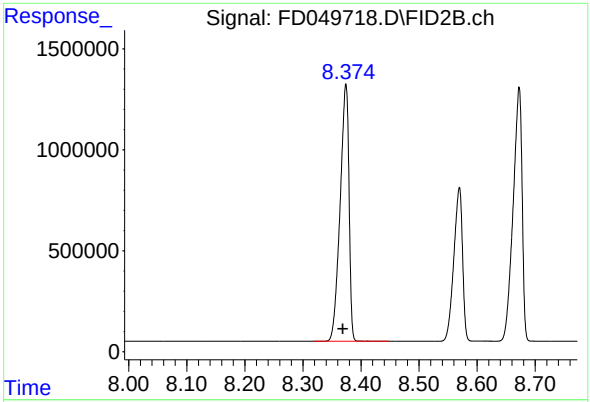
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.093 min
Delta R.T.: 0.003 min
Response: 12922112
Conc: 98.86 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.703 min
Delta R.T.: 0.002 min
Response: 11112746
Conc: 98.56 ug/ml



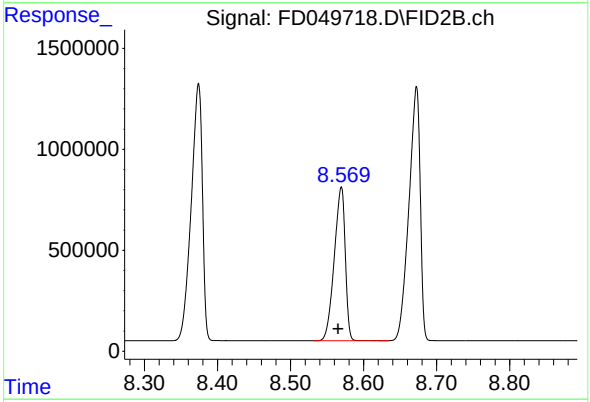
#5 Acenaphthylene (C15.06)

R.T.: 8.373 min
Delta R.T.: 0.005 min
Response: 13531887
Conc: 97.03 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

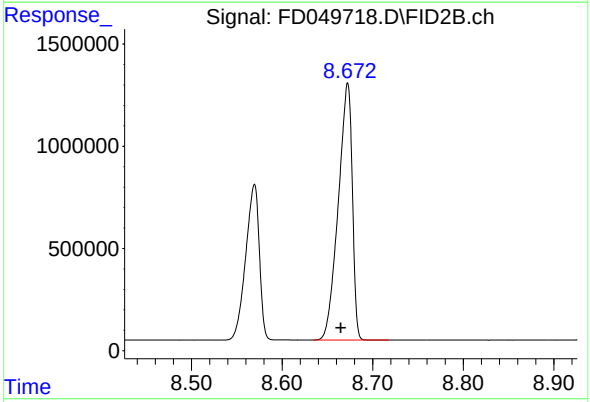
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



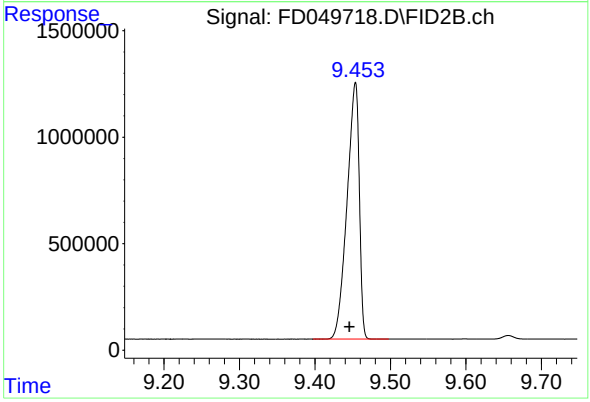
#6 2-Flurobiphenyl (SURR)

R.T.: 8.569 min
Delta R.T.: 0.004 min
Response: 7949975
Conc: 98.01 ug/ml



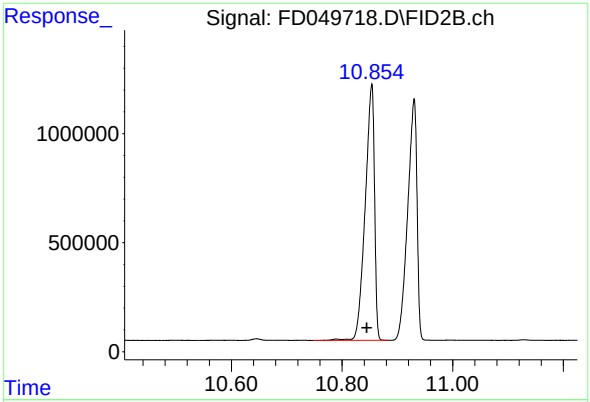
#7 Acenaphthene (C15.5)

R.T.: 8.672 min
Delta R.T.: 0.007 min
Response: 13530461
Conc: 96.98 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.453 min
Delta R.T.: 0.007 min
Response: 13563710
Conc: 96.72 ug/ml



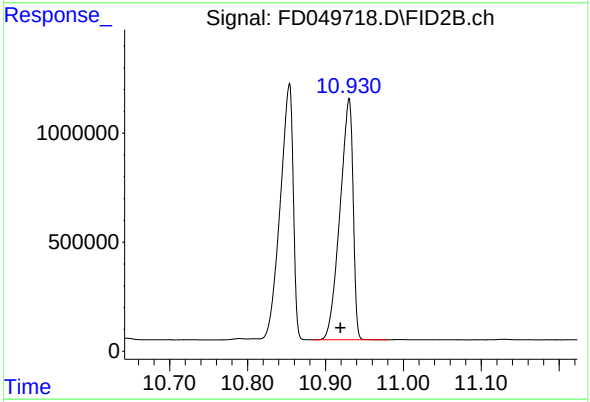
#9 Phenanthrene (C19.36)

R.T.: 10.853 min
Delta R.T.: 0.008 min
Response: 13732189
Conc: 96.73 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

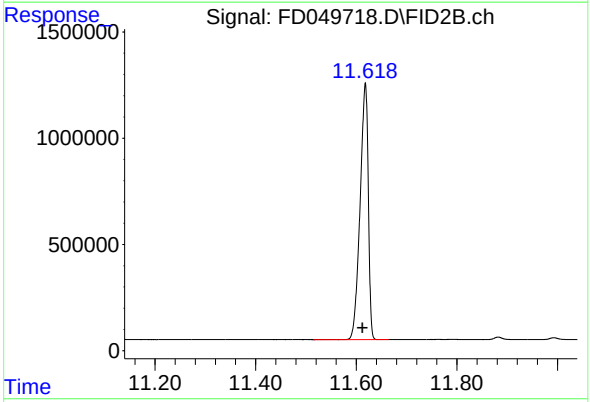
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



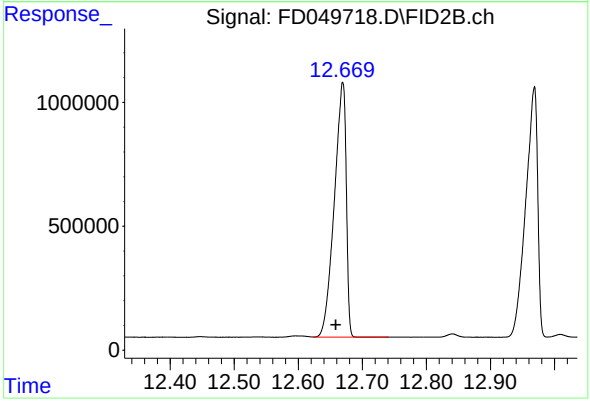
#10 Anthracene (C19.43)

R.T.: 10.930 min
Delta R.T.: 0.010 min
Response: 12946823
Conc: 96.52 ug/ml



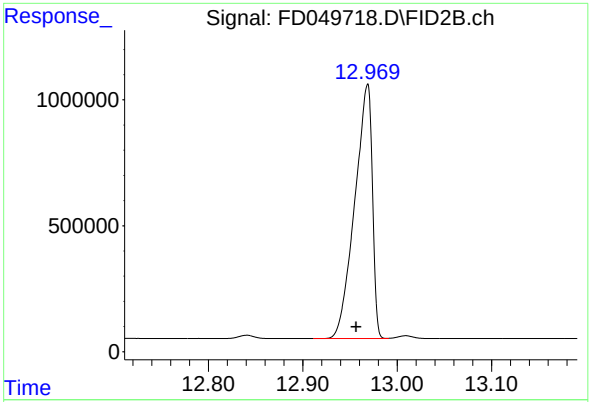
#11 ortho-Terphenyl (SURR)

R.T.: 11.617 min
Delta R.T.: 0.005 min
Response: 13622959
Conc: 95.09 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.668 min
Delta R.T.: 0.010 min
Response: 13257933
Conc: 97.09 ug/ml



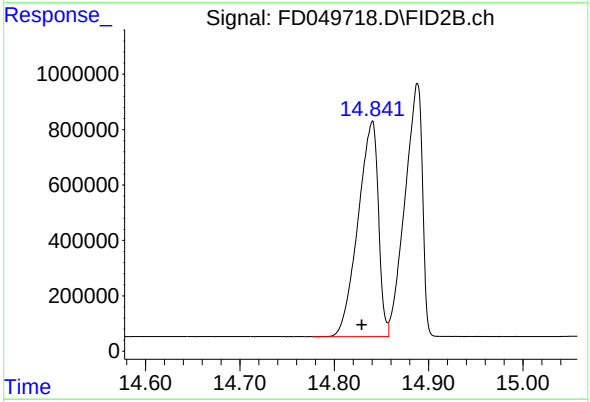
#13 Pyrene (C20.8)

R.T.: 12.967 min
Delta R.T.: 0.011 min
Response: 13102659
Conc: 97.12 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

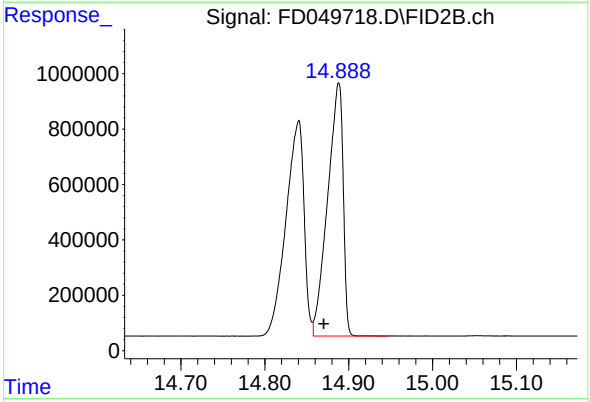
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



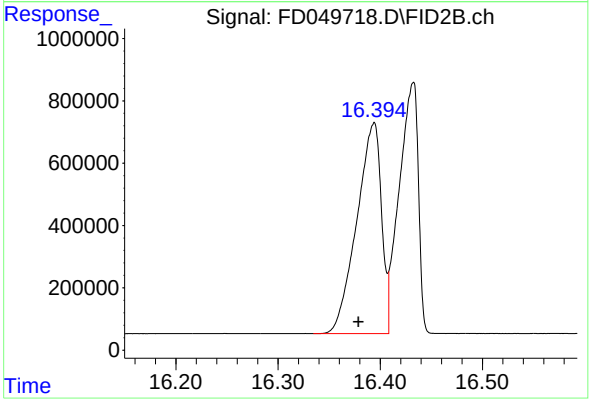
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.839 min
Delta R.T.: 0.010 min
Response: 11657187
Conc: 96.78 ug/ml



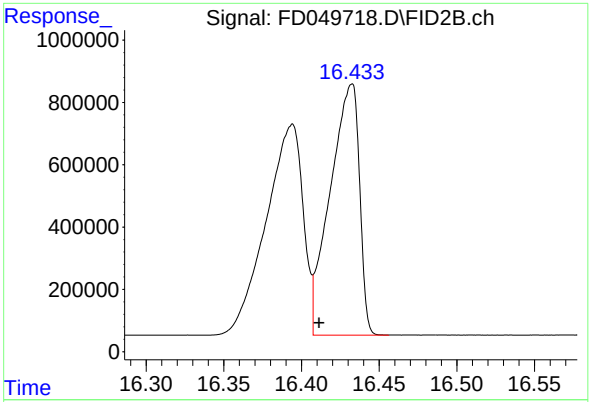
#15 Chrysene (C27.41)

R.T.: 14.887 min
Delta R.T.: 0.017 min
Response: 11738473
Conc: 96.20 ug/ml



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

R.T.: 16.393 min
Delta R.T.: 0.014 min
Response: 11363538
Conc: 94.07 ug/ml



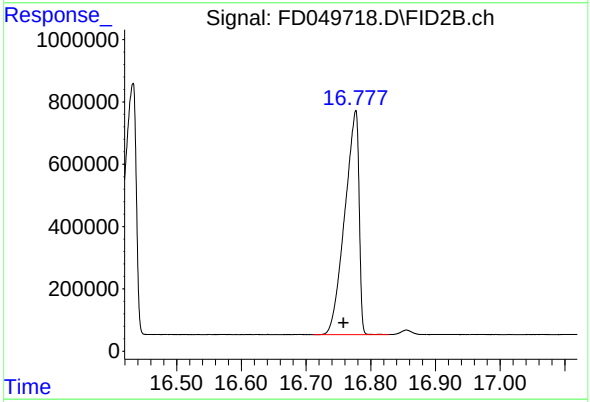
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.433 min
Delta R.T.: 0.021 min
Response: 10483846
Conc: 91.68 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

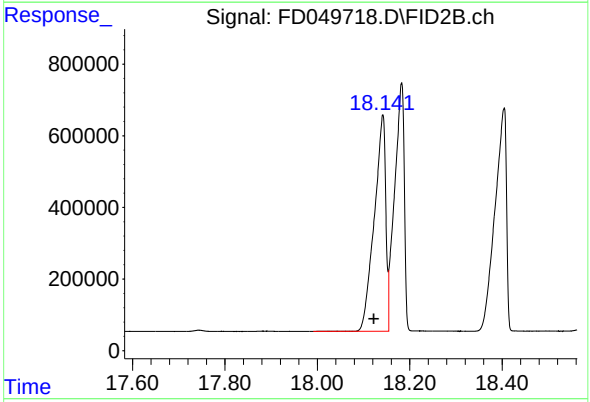
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025



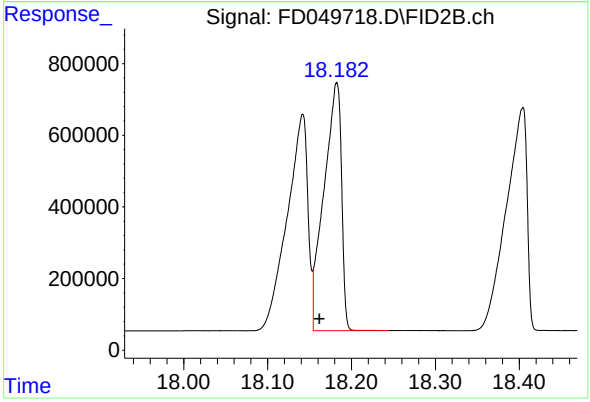
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.775 min
Delta R.T.: 0.017 min
Response: 10977142
Conc: 92.15 ug/ml



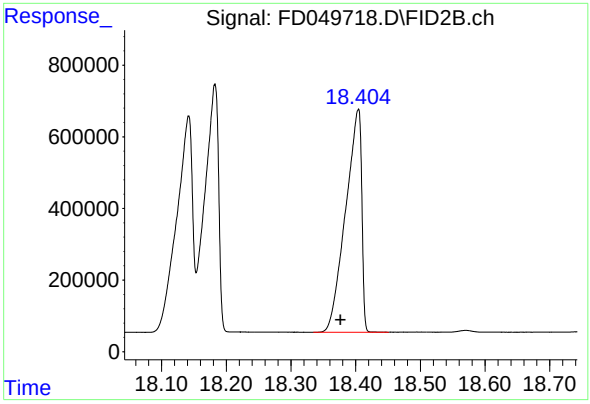
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.141 min
Delta R.T.: 0.019 min
Response: 10414194
Conc: 93.98 ug/ml



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

R.T.: 18.181 min
Delta R.T.: 0.020 min
Response: 10061727
Conc: 85.54 ug/ml



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

R.T.: 18.403 min
Delta R.T.: 0.026 min
Response: 10749985
Conc: 90.20 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025

Instrument :
FID_D
LabSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/05/2025
Supervised By :mohammad ahmed 09/08/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD
Data File : FD049718.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 09:36
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.491	4.458	4.528	BV	1198692	10441049	76.03%	4.186%
2	6.037	5.998	6.069	BV	1355527	12262247	89.30%	4.916%
3	7.093	7.022	7.168	PB	1320087	12922112	94.10%	5.181%
4	7.703	7.648	7.744	BB	1158899	11112746	80.92%	4.456%
5	8.373	8.318	8.448	BB	1288669	13531887	98.54%	5.426%
6	8.569	8.531	8.634	BV	749339	7949975	57.89%	3.187%
7	8.672	8.634	8.718	VB	1240077	13530461	98.53%	5.425%
8	9.453	9.398	9.498	BB	1236783	13563710	98.77%	5.438%
9	10.853	10.748	10.884	BV	1210003	13732189	100.00%	5.506%
10	10.930	10.884	10.981	VV	1130848	12946823	94.28%	5.191%
11	11.617	11.514	11.664	BB	1208922	13622959	99.20%	5.462%
12	12.668	12.623	12.741	VB	1018056	13257933	96.55%	5.316%
13	12.967	12.911	12.991	BV	1008591	13102659	95.42%	5.253%
14	14.839	14.778	14.858	BV	792237	11657187	84.89%	4.674%
15	14.887	14.858	14.948	VB	920593	11738473	85.48%	4.706%
16	16.393	16.334	16.408	BV	683944	11363538	82.75%	4.556%
17	16.431	16.408	16.494	VB	801715	10473293	76.27%	4.199%
18	16.775	16.711	16.828	BV	704214	10977142	79.94%	4.401%
19	18.141	17.991	18.154	BV	604763	10414194	75.84%	4.175%
20	18.181	18.154	18.244	VB	690310	10061727	73.27%	4.034%
21	18.403	18.334	18.451	BB	635209	10749985	78.28%	4.310%

Sum of corrected areas: 249412288

Aromatic EPH 090425.M Fri Sep 05 06:43:24 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 05 06:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 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...	7.699	5439535	48.246 ug/ml
Spiked Amount	50.000		Recovery =	96.49%
6) S	2-Flurobiphenyl (SURR)	8.564	3904709	48.137 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	96.27%
11) S	ortho-Terphenyl (SURR)	11.611	6776278	47.300 ug/ml
Spiked Amount	50.000		Recovery =	94.60%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	5097348	47.360 ug/ml
2) T	Naphthalene (C11.7)	6.033	5988739	48.083 ug/ml
3) T	2-Methylnaphthalene (...	7.088	6309415	48.270 ug/ml
5) T	Acenaphthylene (C15.06)	8.368	6676398	47.873 ug/ml
7) T	Acenaphthene (C15.5)	8.665	6676140	47.850 ug/ml
8) T	Flouorene (C16.55)	9.446	6718389	47.909 ug/ml
9) T	Phenanthrene (C19.36)	10.845	6815270	48.006 ug/ml
10) T	Anthracene (C19.43)	10.920	6448326	48.075 ug/ml
12) T	Fluoranthene (C21.85)	12.660	6577964	48.171 ug/ml
13) T	Pyrene (C20.8)	12.958	6507375	48.234 ug/ml
14) T	Benzo[a]anthracene (C...	14.831	5800499	48.158 ug/ml
15) T	Chrysene (C27.41)	14.875	5856393	47.993 ug/ml
16) T	benzo[b]fluoranthene ...	16.382	5727605	47.414 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.417	5322884	46.550 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.762	5566382	46.730 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.127	5209247	47.008 ug/ml
20) T	Dibenz[a,h]anthracene...	18.167	5337048	45.375 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.385	5513508	46.261 ug/ml

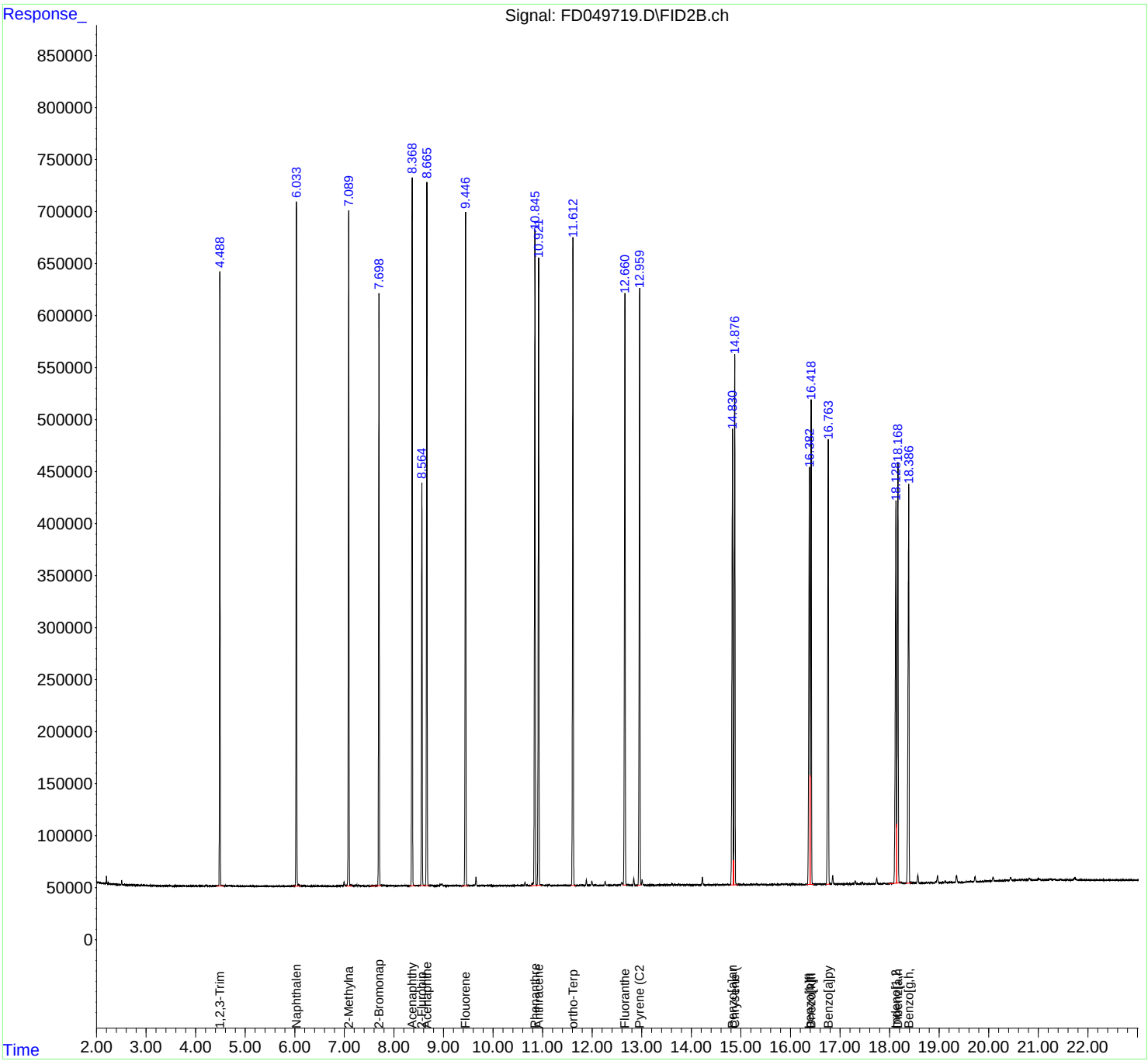
(f)=RT Delta > 1/2 Window (m)=manual int.

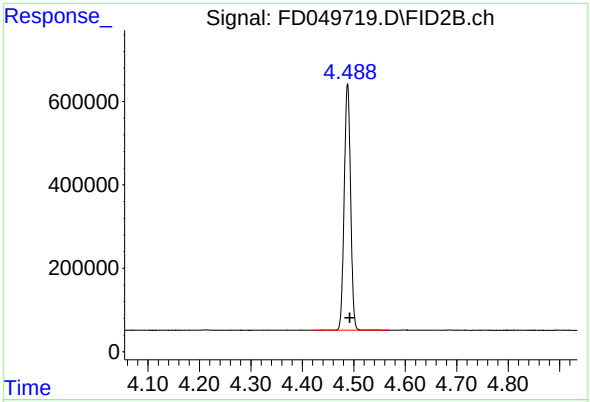
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 05 06:20:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

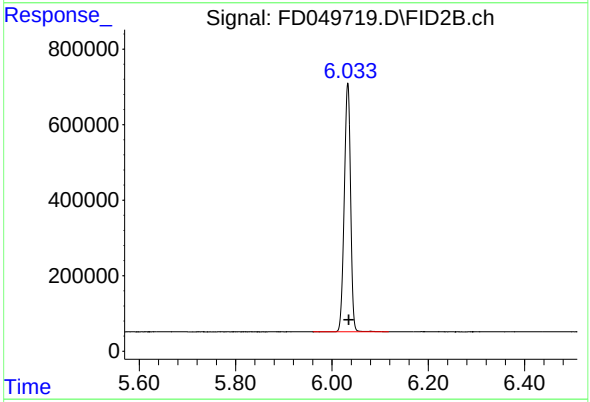




#1 1,2,3-Trimethylbenzene (C10.1)

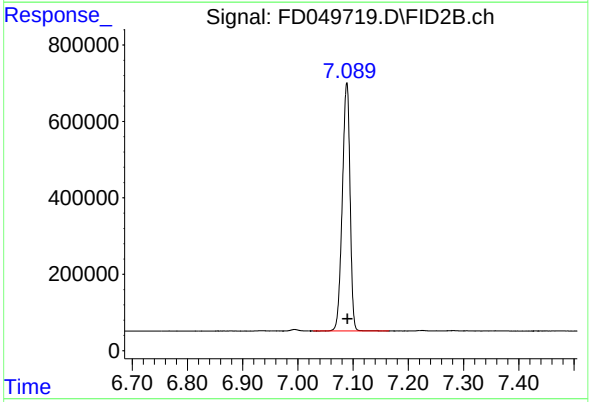
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 5097348
Conc: 47.36 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



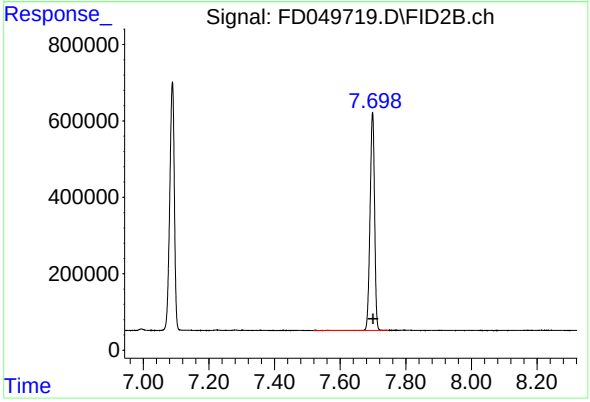
#2 Naphthalene (C11.7)

R.T.: 6.033 min
Delta R.T.: -0.002 min
Response: 5988739
Conc: 48.08 ug/ml



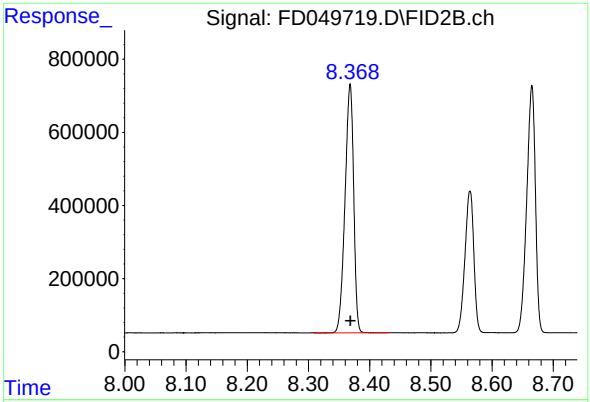
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.088 min
Delta R.T.: -0.001 min
Response: 6309415
Conc: 48.27 ug/ml



#4 2-Bromonaphthalene (SURR)

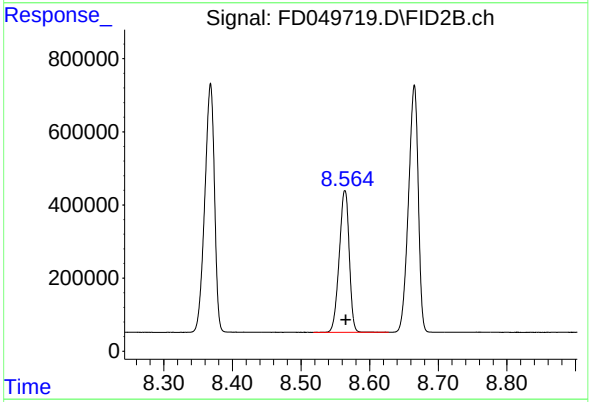
R.T.: 7.699 min
Delta R.T.: -0.002 min
Response: 5439535
Conc: 48.25 ug/ml



#5 Acenaphthylene (C15.06)

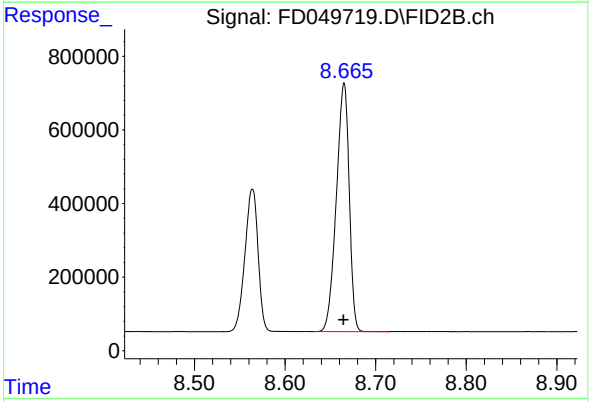
R.T.: 8.368 min
Delta R.T.: 0.000 min
Response: 6676398
Conc: 47.87 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



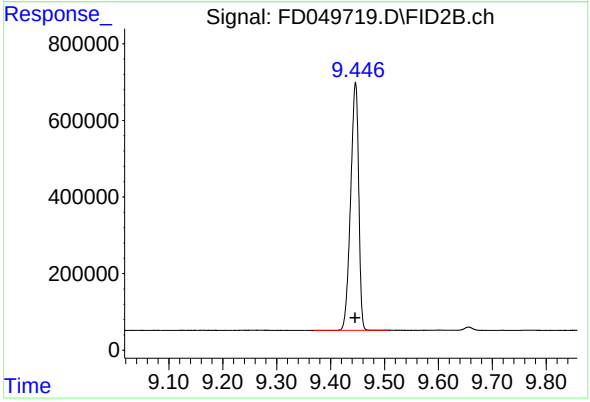
#6 2-Flurobiphenyl (SURR)

R.T.: 8.564 min
Delta R.T.: -0.001 min
Response: 3904709
Conc: 48.14 ug/ml



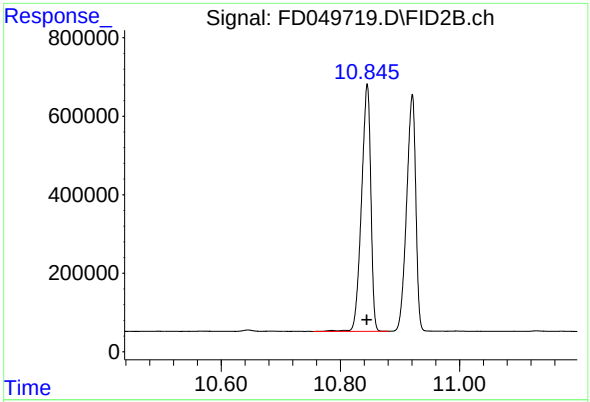
#7 Acenaphthene (C15.5)

R.T.: 8.665 min
Delta R.T.: 0.000 min
Response: 6676140
Conc: 47.85 ug/ml



#8 Flouorene (C16.55)

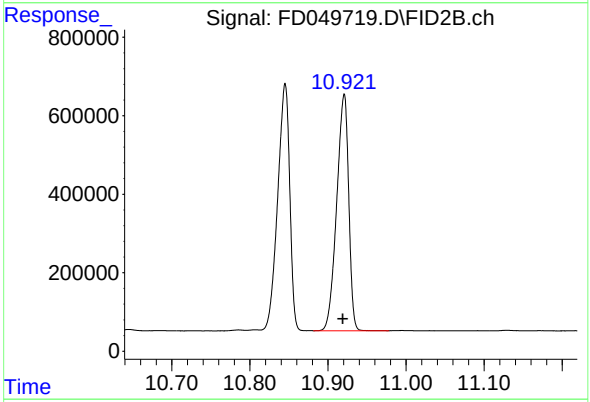
R.T.: 9.446 min
Delta R.T.: 0.000 min
Response: 6718389
Conc: 47.91 ug/ml



#9 Phenanthrene (C19.36)

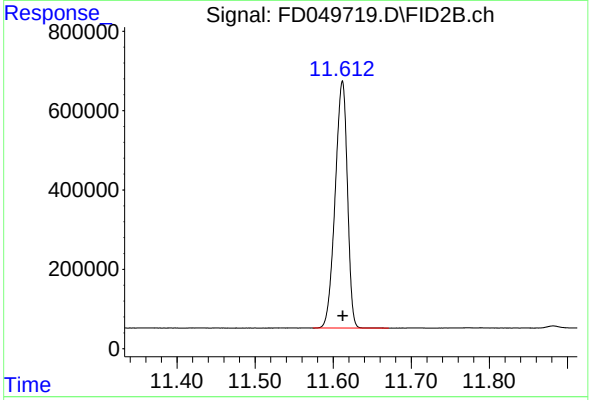
R.T.: 10.845 min
Delta R.T.: 0.000 min
Response: 6815270
Conc: 48.01 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



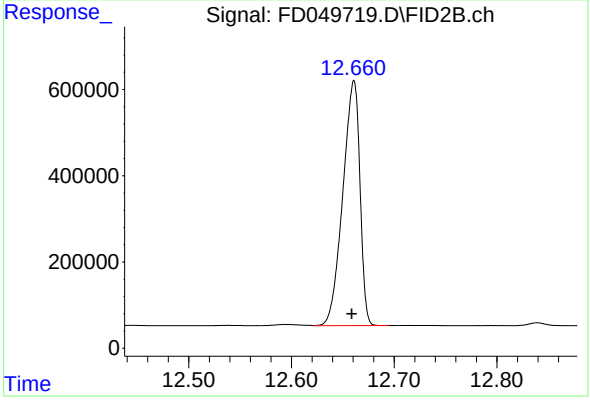
#10 Anthracene (C19.43)

R.T.: 10.920 min
Delta R.T.: 0.001 min
Response: 6448326
Conc: 48.07 ug/ml



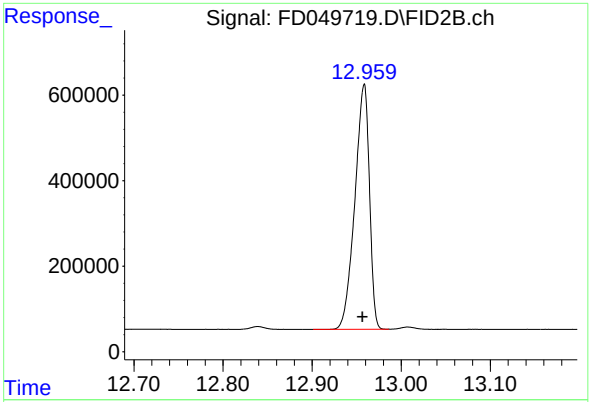
#11 ortho-Terphenyl (SURR)

R.T.: 11.611 min
Delta R.T.: 0.000 min
Response: 6776278
Conc: 47.30 ug/ml



#12 Fluoranthene (C21.85)

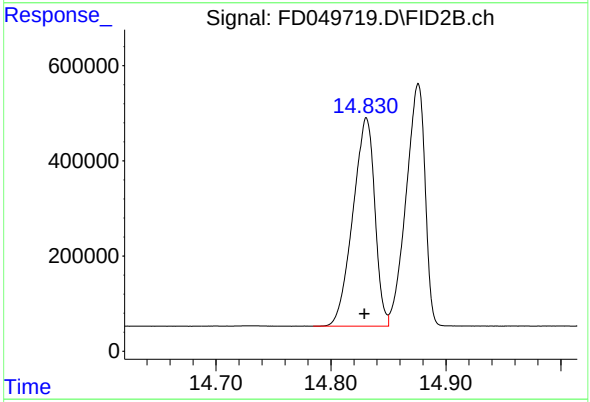
R.T.: 12.660 min
Delta R.T.: 0.002 min
Response: 6577964
Conc: 48.17 ug/ml



#13 Pyrene (C20.8)

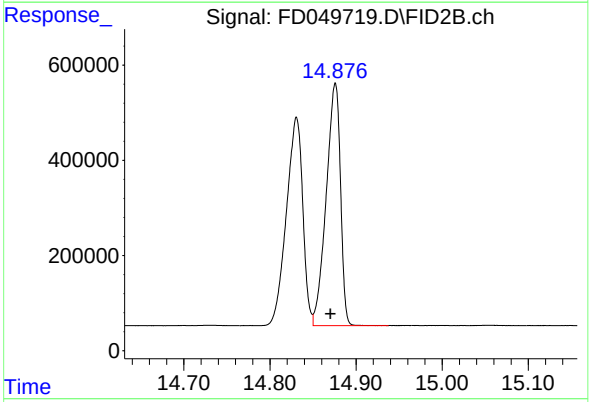
R.T.: 12.958 min
Delta R.T.: 0.001 min
Response: 6507375
Conc: 48.23 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



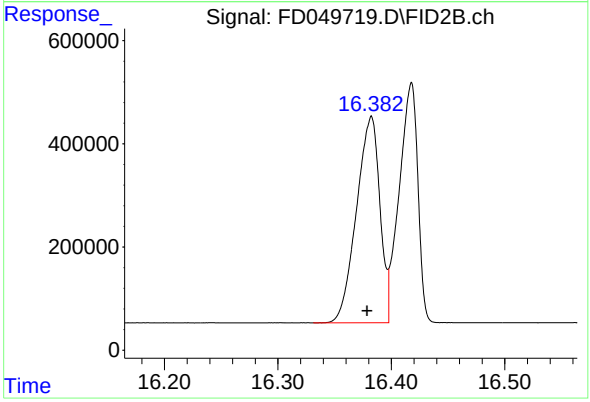
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.831 min
Delta R.T.: 0.002 min
Response: 5800499
Conc: 48.16 ug/ml



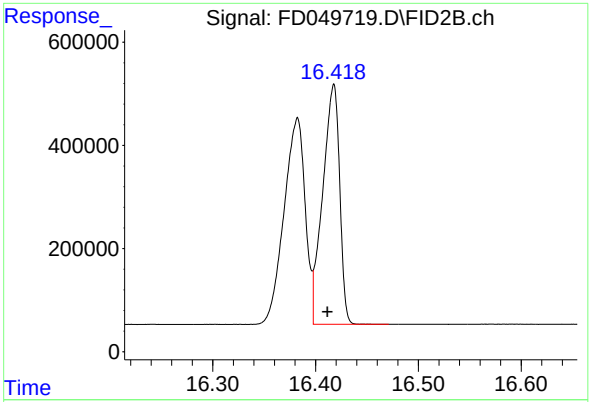
#15 Chrysene (C27.41)

R.T.: 14.875 min
Delta R.T.: 0.005 min
Response: 5856393
Conc: 47.99 ug/ml



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

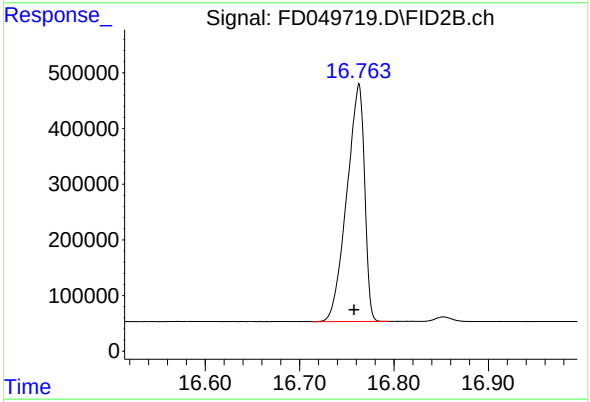
R.T.: 16.382 min
Delta R.T.: 0.003 min
Response: 5727605
Conc: 47.41 ug/ml



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

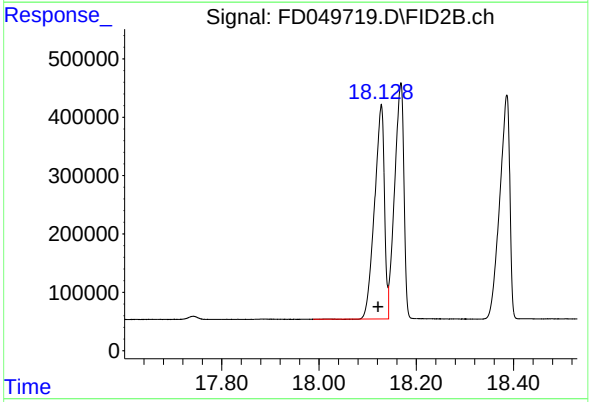
R.T.: 16.417 min
Delta R.T.: 0.006 min
Response: 5322884
Conc: 46.55 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



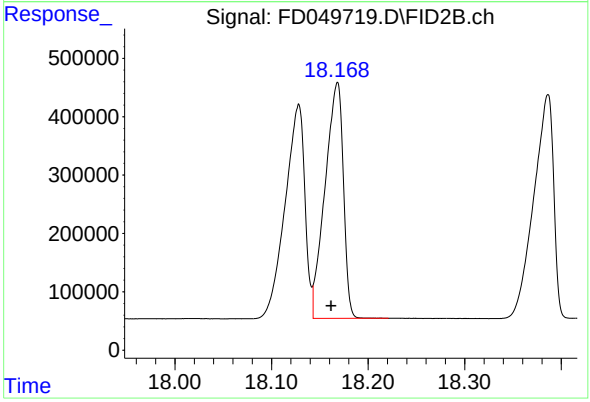
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.762 min
Delta R.T.: 0.004 min
Response: 5566382
Conc: 46.73 ug/ml



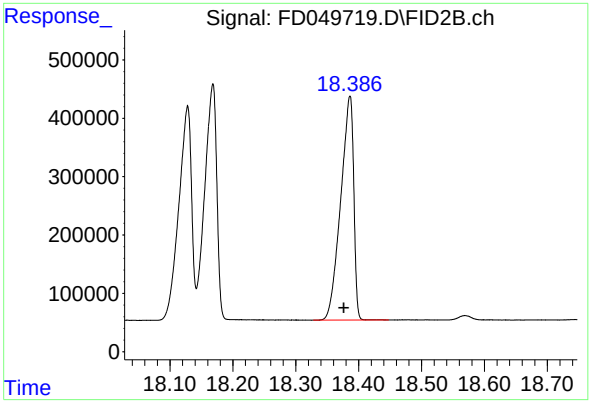
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.127 min
Delta R.T.: 0.006 min
Response: 5209247
Conc: 47.01 ug/ml



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

R.T.: 18.167 min
Delta R.T.: 0.006 min
Response: 5337048
Conc: 45.38 ug/ml



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

R.T.:	18.385 min
Delta R.T.:	0.009 min
Response:	5513508
Conc:	46.26 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049719.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:16
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.488	4.421	4.568	BB	589718	5097348	74.79%	4.102%
2	6.033	5.961	6.118	BB	664447	5988739	87.87%	4.819%
3	7.088	7.028	7.164	BB	647592	6309415	92.58%	5.077%
4	7.699	7.518	7.748	BB	567038	5439535	79.81%	4.377%
5	8.368	8.308	8.431	BB	678832	6676398	97.96%	5.373%
6	8.564	8.518	8.628	BB	390522	3904709	57.29%	3.142%
7	8.665	8.631	8.714	BB	673258	6676140	97.96%	5.372%
8	9.446	9.368	9.508	BB	640245	6718389	98.58%	5.406%
9	10.845	10.754	10.881	BV	628583	6815270	100.00%	5.484%
10	10.920	10.881	10.978	VV	609499	6448326	94.62%	5.189%
11	11.611	11.574	11.671	BB	621060	6776278	99.43%	5.453%
12	12.660	12.621	12.694	VB	574120	6577964	96.52%	5.293%
13	12.958	12.901	12.986	BV	571912	6507375	95.48%	5.237%
14	14.831	14.784	14.850	BV	439510	5800499	85.11%	4.668%
15	14.875	14.850	14.938	VB	506198	5856393	85.93%	4.713%
16	16.382	16.331	16.398	BV	396436	5727605	84.04%	4.609%
17	16.417	16.398	16.471	VB	468851	5322884	78.10%	4.283%
18	16.762	16.714	16.794	BB	417777	5566382	81.68%	4.479%
19	18.127	17.988	18.143	BV	367702	5209247	76.43%	4.192%
20	18.167	18.143	18.221	VB	405279	5337048	78.31%	4.295%
21	18.385	18.328	18.448	BB	381726	5513508	80.90%	4.437%

Sum of corrected areas: 124269453

Aromatic EPH 090425.M Fri Sep 05 06:44:05 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 05 06:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 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...	7.701	2254913	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.565	1622343	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.612	2865224	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.492	2152601	20.000 ug/ml
2) T	Naphthalene (C11.7)	6.035	2491010	20.000 ug/ml
3) T	2-Methylnaphthalene (...	7.090	2614218	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.369	2789202	20.000 ug/ml
7) T	Acenaphthene (C15.5)	8.665	2790447	20.000 ug/ml
8) T	Flouorene (C16.55)	9.446	2804645	20.000 ug/ml
9) T	Phenanthrene (C19.36)	10.845	2839318	20.000 ug/ml
10) T	Anthracene (C19.43)	10.919	2682635	20.000 ug/ml
12) T	Fluoranthene (C21.85)	12.659	2731115	20.000 ug/ml
13) T	Pyrene (C20.8)	12.956	2698257	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	14.829	2408933	20.000 ug/ml
15) T	Chrysene (C27.41)	14.870	2440531	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	16.379	2415976	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.411	2286971	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.758	2382359	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.122	2216312	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	18.162	2352402	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.376	2383649	20.000 ug/ml

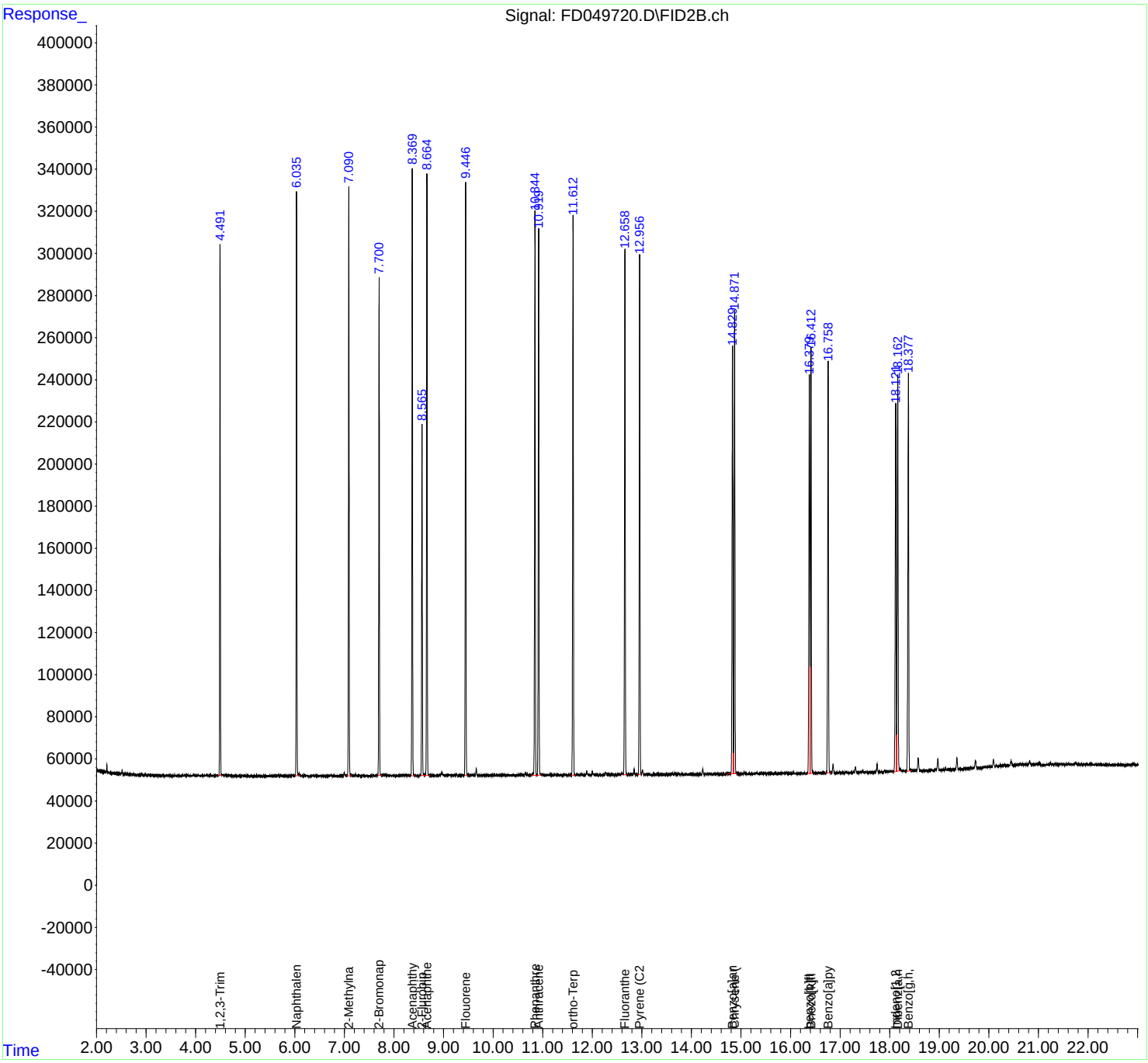
(f)=RT Delta > 1/2 Window (m)=manual int.

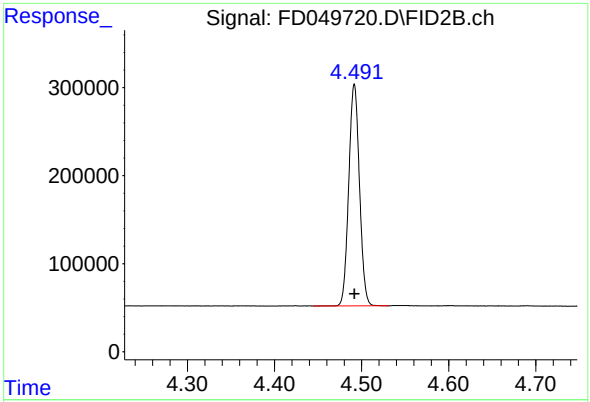
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 05 06:21:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

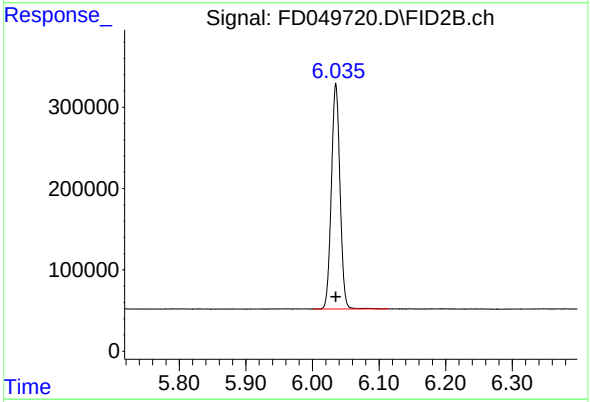




#1 1,2,3-Trimethylbenzene (C10.1)

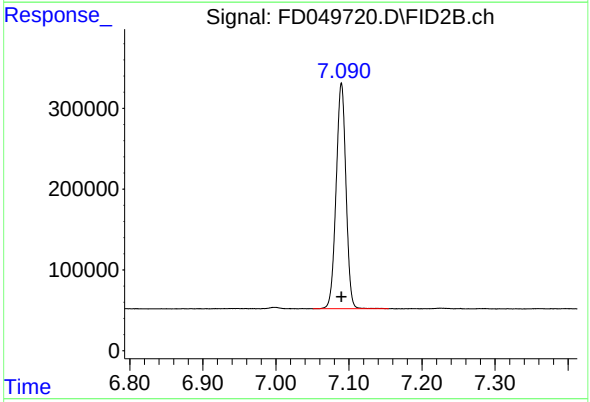
R.T.: 4.492 min
Delta R.T.: 0.000 min
Response: 2152601
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



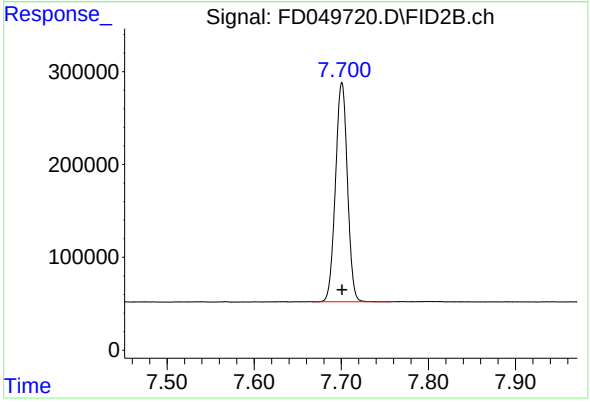
#2 Naphthalene (C11.7)

R.T.: 6.035 min
Delta R.T.: 0.000 min
Response: 2491010
Conc: 20.00 ug/ml



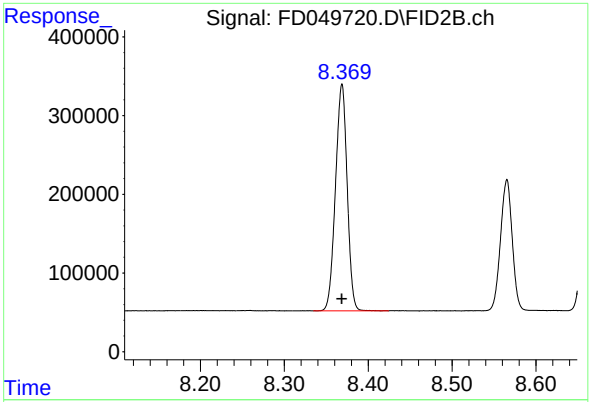
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.090 min
Delta R.T.: 0.000 min
Response: 2614218
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

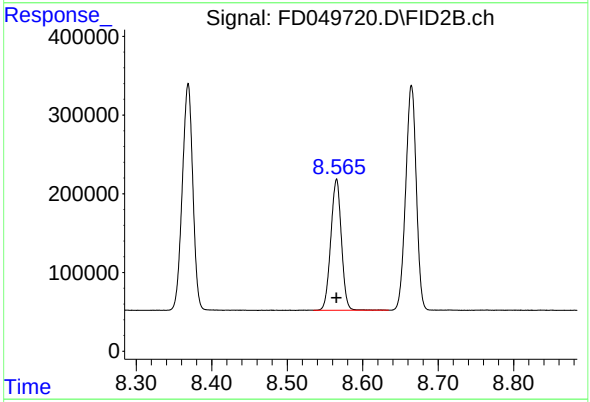
R.T.: 7.701 min
Delta R.T.: 0.000 min
Response: 2254913
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

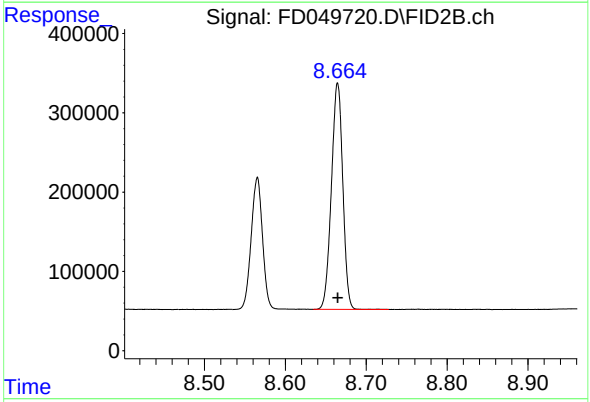
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 2789202
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



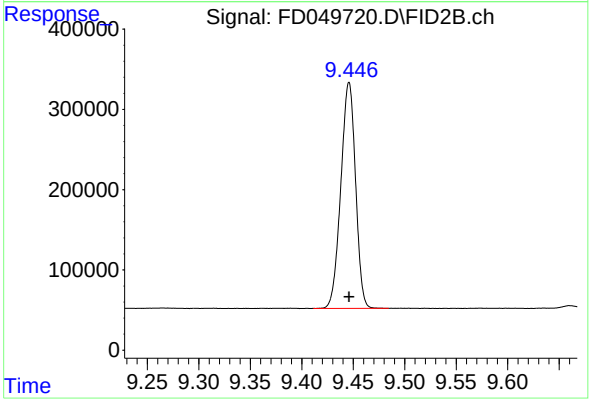
#6 2-Flurobiphenyl (SURR)

R.T.: 8.565 min
Delta R.T.: 0.000 min
Response: 1622343
Conc: 20.00 ug/ml



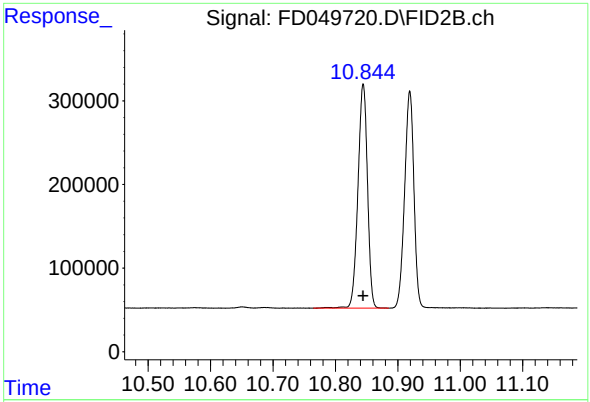
#7 Acenaphthene (C15.5)

R.T.: 8.665 min
Delta R.T.: 0.000 min
Response: 2790447
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

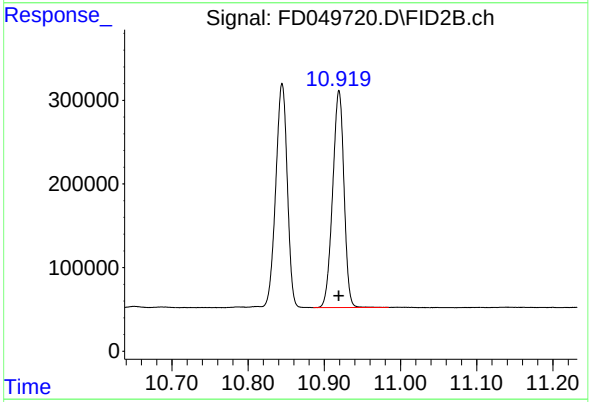
R.T.: 9.446 min
Delta R.T.: 0.000 min
Response: 2804645
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

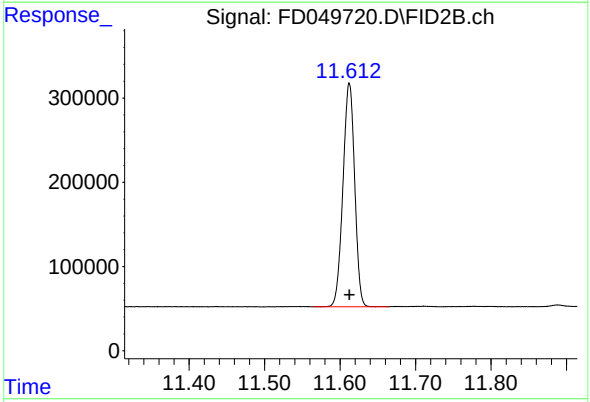
R.T.: 10.845 min
Delta R.T.: 0.000 min
Response: 2839318
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



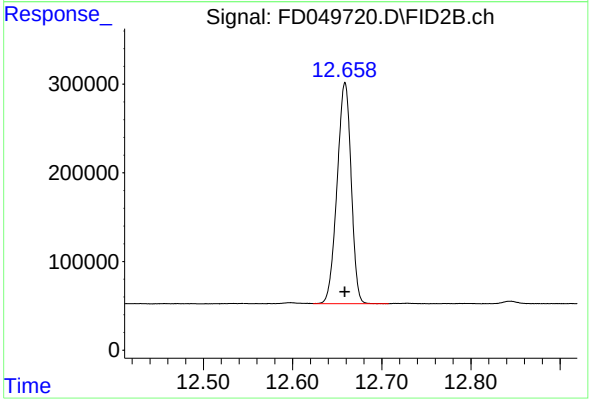
#10 Anthracene (C19.43)

R.T.: 10.919 min
Delta R.T.: 0.000 min
Response: 2682635
Conc: 20.00 ug/ml



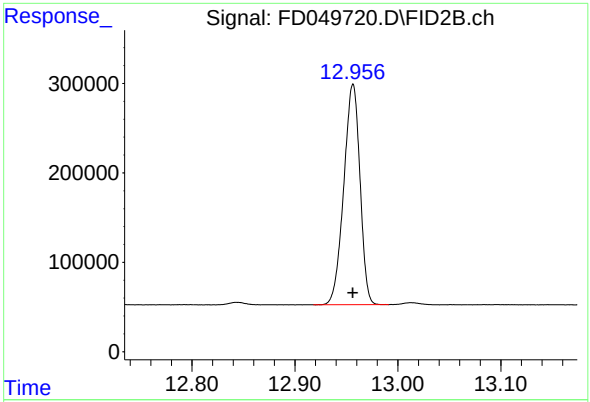
#11 ortho-Terphenyl (SURR)

R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 2865224
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

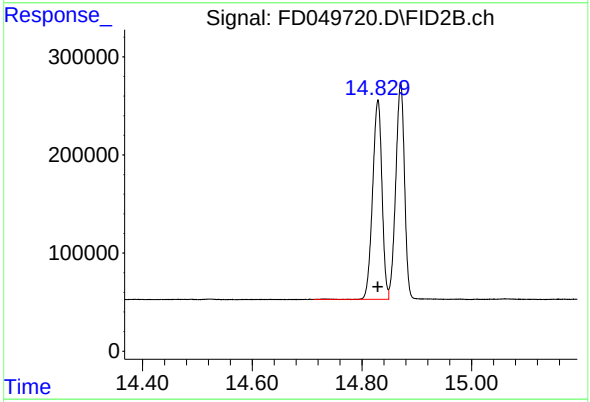
R.T.: 12.659 min
Delta R.T.: 0.000 min
Response: 2731115
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

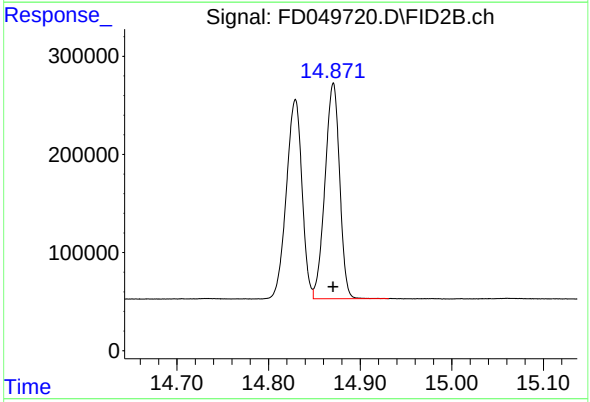
R.T.: 12.956 min
Delta R.T.: 0.000 min
Response: 2698257
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



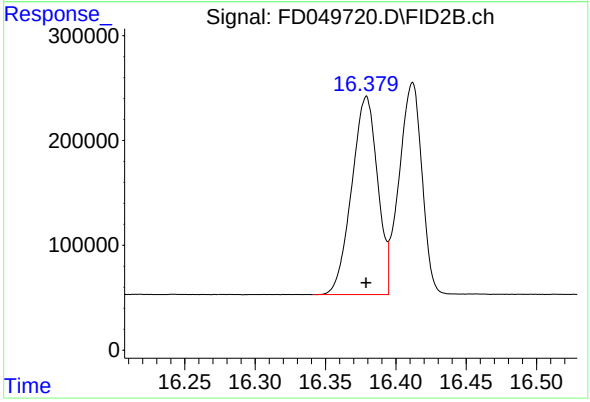
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.829 min
Delta R.T.: 0.000 min
Response: 2408933
Conc: 20.00 ug/ml



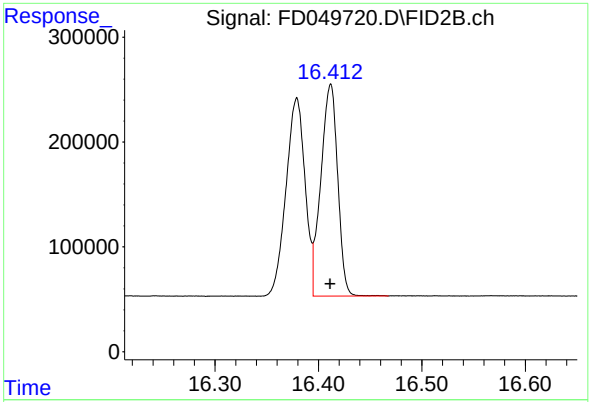
#15 Chrysene (C27.41)

R.T.: 14.870 min
Delta R.T.: 0.000 min
Response: 2440531
Conc: 20.00 ug/ml



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

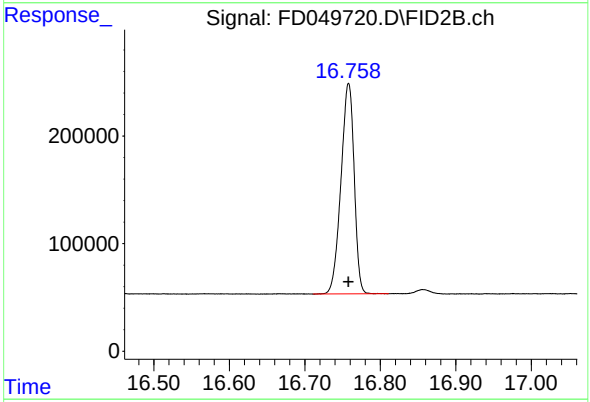
R.T.: 16.379 min
Delta R.T.: 0.000 min
Response: 2415976
Conc: 20.00 ug/ml



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

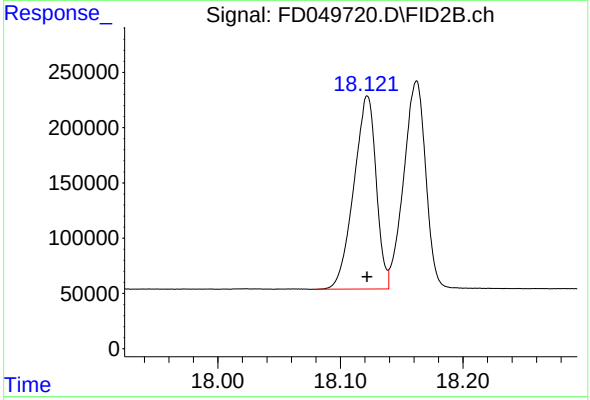
R.T.: 16.411 min
Delta R.T.: 0.000 min
Response: 2286971
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



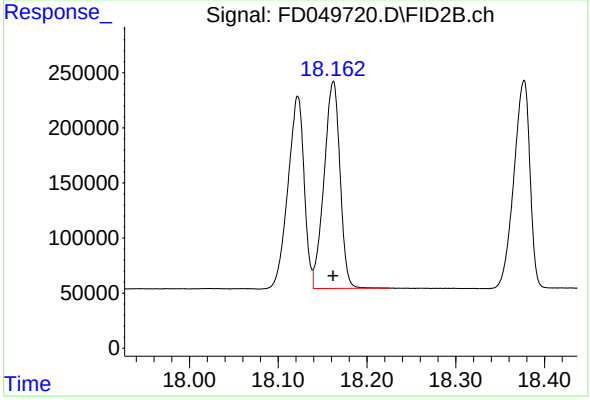
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 2382359
Conc: 20.00 ug/ml



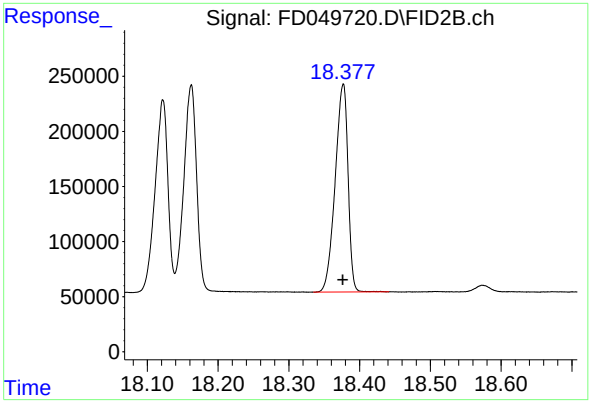
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.122 min
Delta R.T.: 0.000 min
Response: 2216312
Conc: 20.00 ug/ml



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

R.T.: 18.162 min
Delta R.T.: 0.000 min
Response: 2352402
Conc: 20.00 ug/ml



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

R.T.:	18.376 min
Delta R.T.:	0.000 min
Response:	2383649
Conc:	20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049720.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 10:56
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.492	4.444	4.531	BV	251006	2152601	75.13%	4.122%
2	6.035	6.001	6.114	BB	275132	2491010	86.94%	4.770%
3	7.090	7.051	7.154	BB	278974	2614218	91.24%	5.006%
4	7.701	7.668	7.754	BB	236508	2254913	78.70%	4.318%
5	8.369	8.334	8.424	BB	285866	2789202	97.35%	5.341%
6	8.565	8.534	8.634	BB	164924	1622343	56.62%	3.107%
7	8.665	8.634	8.728	BB	286084	2790447	97.39%	5.343%
8	9.446	9.411	9.484	BB	279966	2804645	97.89%	5.371%
9	10.845	10.764	10.885	BV	268419	2839318	99.10%	5.437%
10	10.919	10.885	10.984	PB	257528	2682635	93.63%	5.137%
11	11.612	11.564	11.664	BB	265077	2865224	100.00%	5.487%
12	12.659	12.623	12.708	VV	248840	2731115	95.32%	5.230%
13	12.956	12.918	12.991	BV	247991	2698257	94.17%	5.167%
14	14.829	14.711	14.849	BV	201790	2408933	84.07%	4.613%
15	14.870	14.849	14.931	VB	220616	2440531	85.18%	4.673%
16	16.379	16.341	16.395	BV	187779	2415976	84.32%	4.626%
17	16.411	16.395	16.468	VB	201483	2286971	79.82%	4.379%
18	16.758	16.711	16.811	BB	196308	2382359	83.15%	4.562%
19	18.122	18.078	18.139	BV	175224	2216312	77.35%	4.244%
20	18.162	18.139	18.224	VB	187210	2352402	82.10%	4.505%
21	18.376	18.334	18.441	BB	191440	2383649	83.19%	4.564%
			Sum of corrected areas:			52223060		

Aromatic EPH 090425.M Fri Sep 05 06:44:21 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 05 06:21:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 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...	7.696	1103950	9.792 ug/ml
Spiked Amount	50.000		Recovery =	19.58%
6) S	2-Flurobiphenyl (SURR)	8.560	784665	9.673 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.35%
11) S	ortho-Terphenyl (SURR)	11.607	1399473	9.769 ug/ml
Spiked Amount	50.000		Recovery =	19.54%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.489	1063806	9.884 ug/ml
2) T	Naphthalene (C11.7)	6.032	1213442	9.743 ug/ml
3) T	2-Methylnaphthalene (...	7.085	1271229	9.725 ug/ml
5) T	Acenaphthylene (C15.06)	8.364	1364366	9.783 ug/ml
7) T	Acenaphthene (C15.5)	8.659	1365728	9.789 ug/ml
8) T	Flouorene (C16.55)	9.441	1362341	9.715 ug/ml
9) T	Phenanthrene (C19.36)	10.839	1363521	9.605 ug/ml
10) T	Anthracene (C19.43)	10.913	1291559	9.629 ug/ml
12) T	Fluoranthene (C21.85)	12.652	1306755	9.569 ug/ml
13) T	Pyrene (C20.8)	12.949	1298472	9.625 ug/ml
14) T	Benzo[a]anthracene (C...	14.821	1173101	9.740 ug/ml
15) T	Chrysene (C27.41)	14.863	1194158	9.786 ug/ml
16) T	benzo[b]fluoranthene ...	16.371	1196416	9.904 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.403	1135613	9.931 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.750	1175249	9.866 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.113	1079787	9.744 ug/ml
20) T	Dibenz[a,h]anthracene...	18.154	1161284	9.873 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.366	1177944	9.884 ug/ml

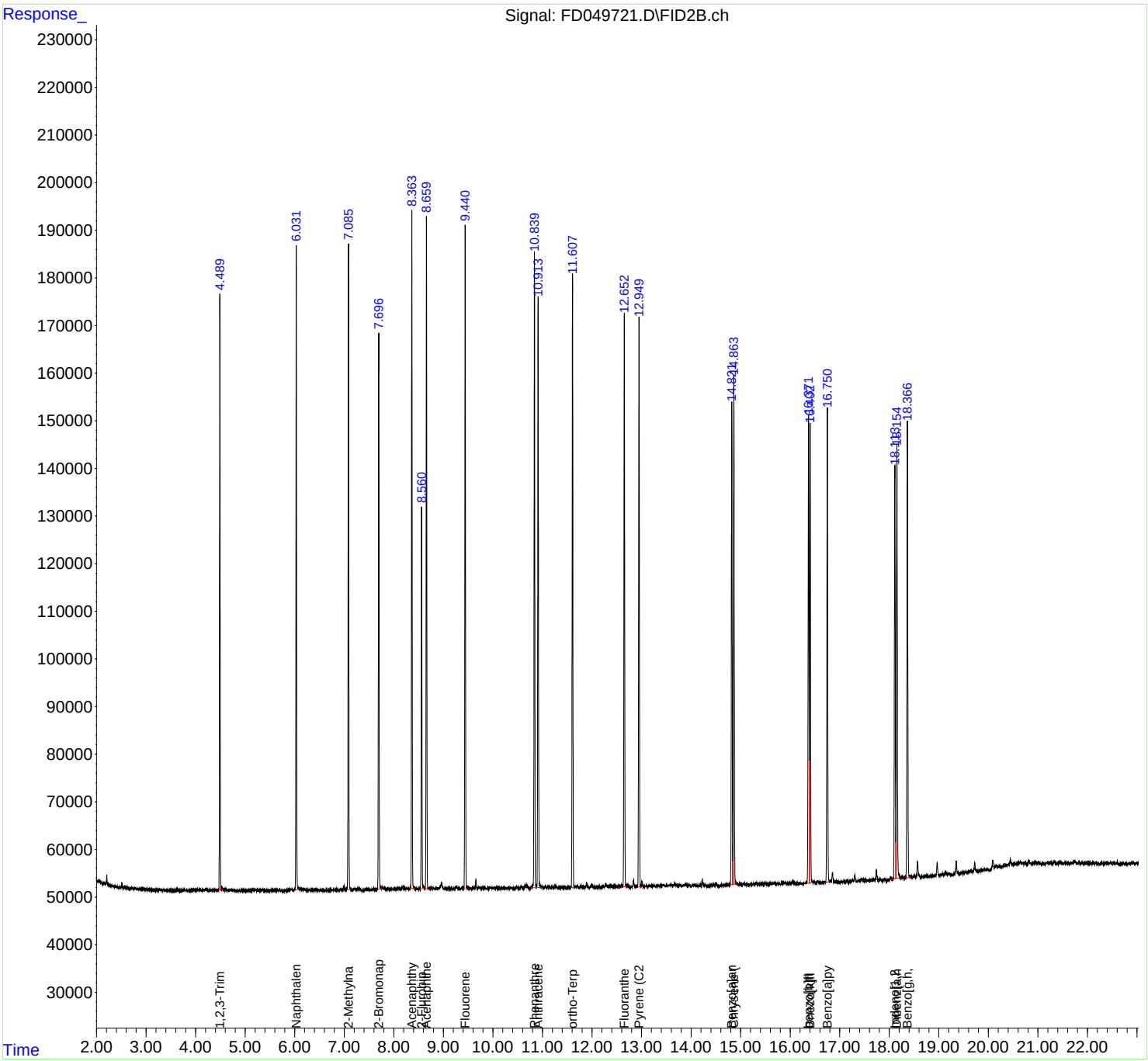
(f)=RT Delta > 1/2 Window (m)=manual int.

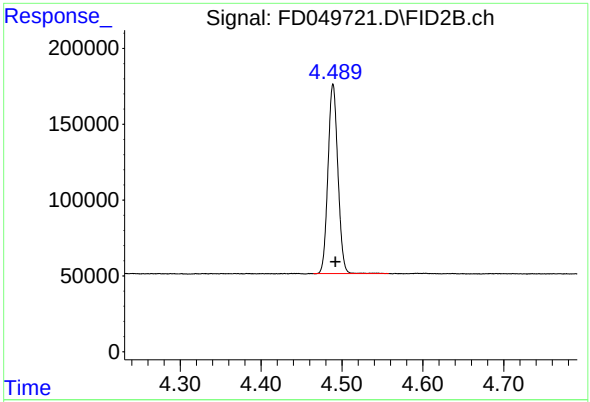
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 05 06:21:38 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

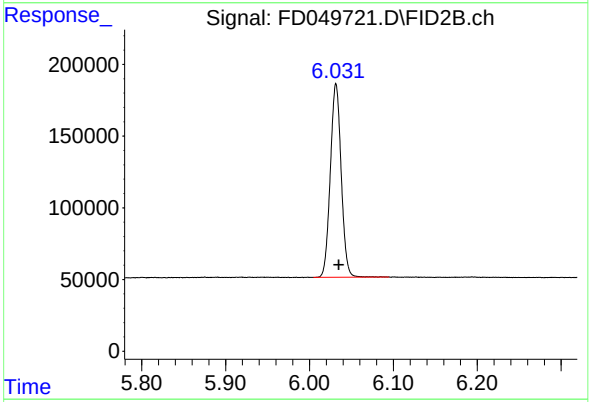




#1 1,2,3-Trimethylbenzene (C10.1)

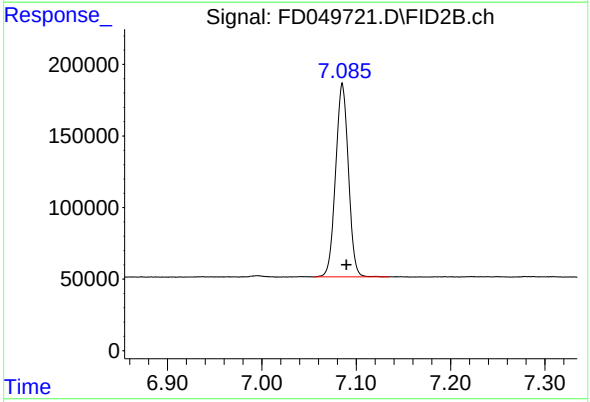
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 1063806
Conc: 9.88 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



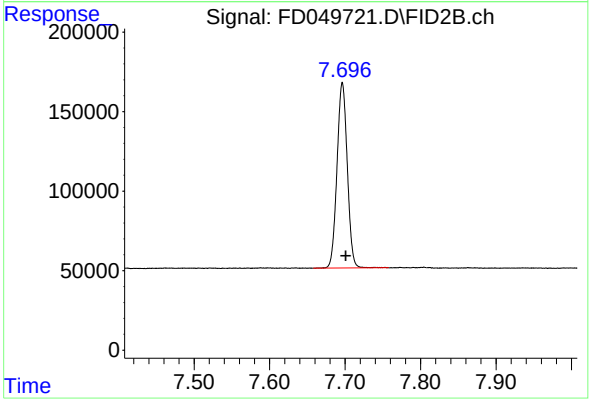
#2 Naphthalene (C11.7)

R.T.: 6.032 min
Delta R.T.: -0.004 min
Response: 1213442
Conc: 9.74 ug/ml



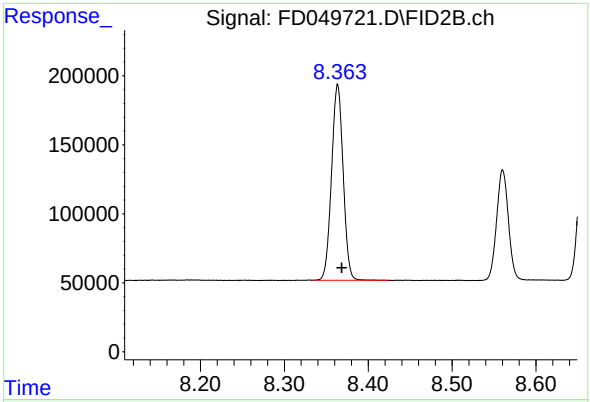
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.085 min
Delta R.T.: -0.004 min
Response: 1271229
Conc: 9.73 ug/ml



#4 2-Bromonaphthalene (SURR)

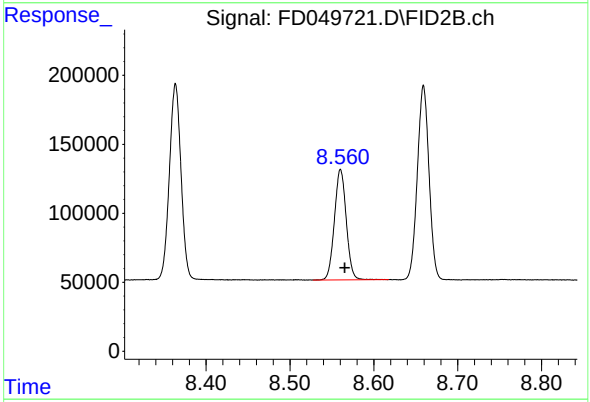
R.T.: 7.696 min
Delta R.T.: -0.004 min
Response: 1103950
Conc: 9.79 ug/ml



#5 Acenaphthylene (C15.06)

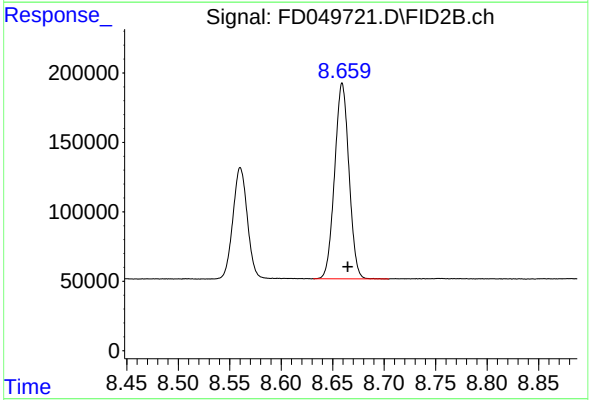
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 1364366
Conc: 9.78 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



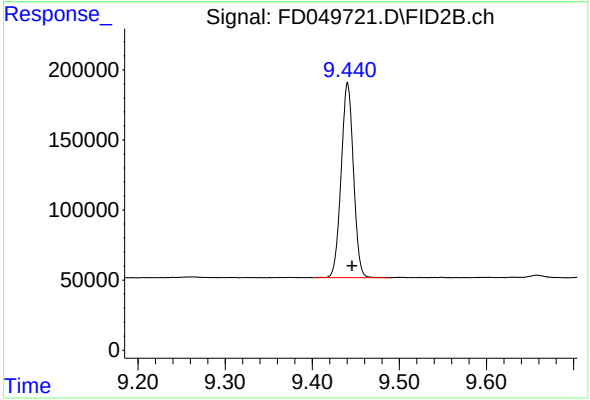
#6 2-Flurobiphenyl (SURR)

R.T.: 8.560 min
Delta R.T.: -0.005 min
Response: 784665
Conc: 9.67 ug/ml



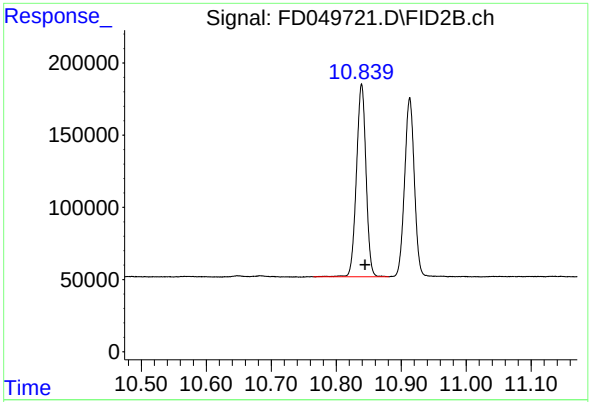
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: -0.005 min
Response: 1365728
Conc: 9.79 ug/ml



#8 Flouorene (C16.55)

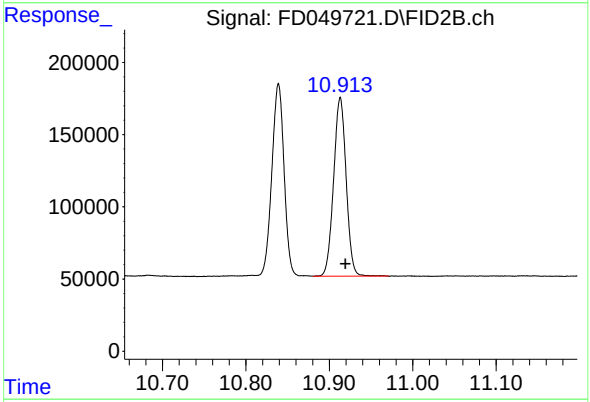
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 1362341
Conc: 9.71 ug/ml



#9 Phenanthrene (C19.36)

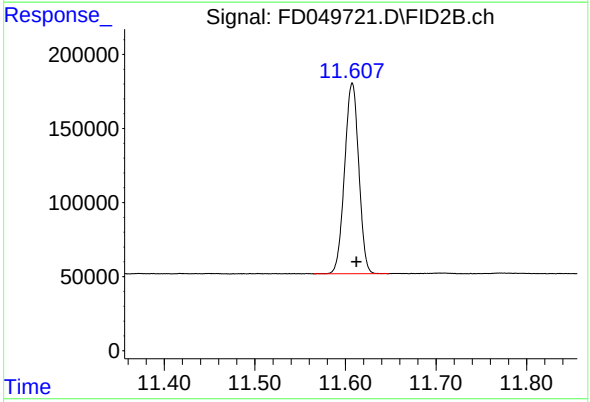
R.T.: 10.839 min
Delta R.T.: -0.006 min
Response: 1363521
Conc: 9.60 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



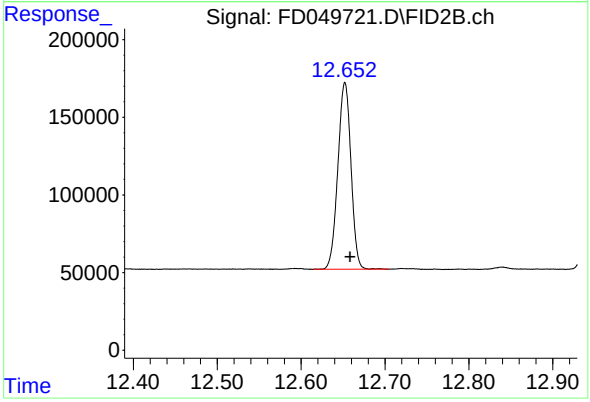
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: -0.006 min
Response: 1291559
Conc: 9.63 ug/ml



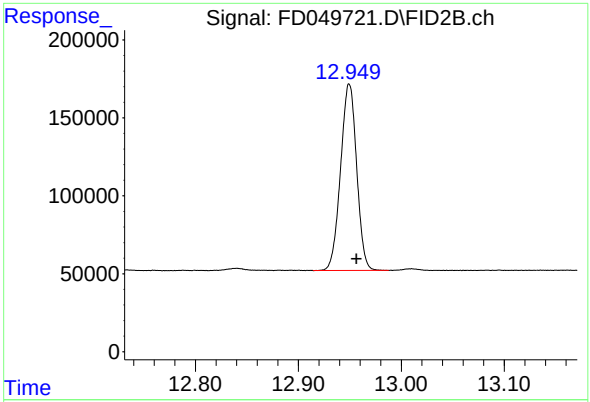
#11 ortho-Terphenyl (SURR)

R.T.: 11.607 min
Delta R.T.: -0.005 min
Response: 1399473
Conc: 9.77 ug/ml



#12 Fluoranthene (C21.85)

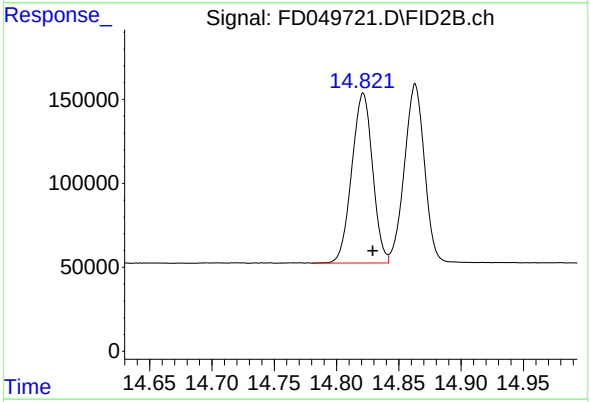
R.T.: 12.652 min
Delta R.T.: -0.006 min
Response: 1306755
Conc: 9.57 ug/ml



#13 Pyrene (C20.8)

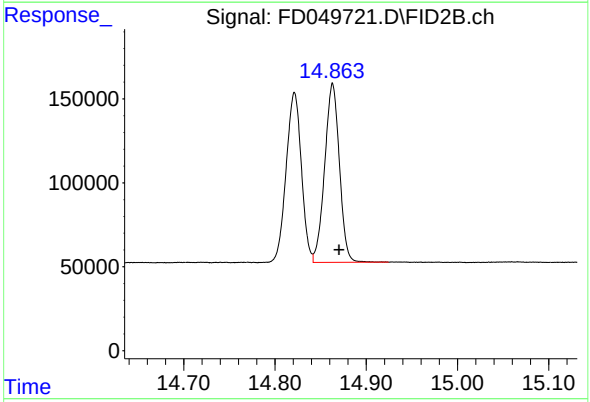
R.T.: 12.949 min
Delta R.T.: -0.007 min
Response: 1298472
Conc: 9.62 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



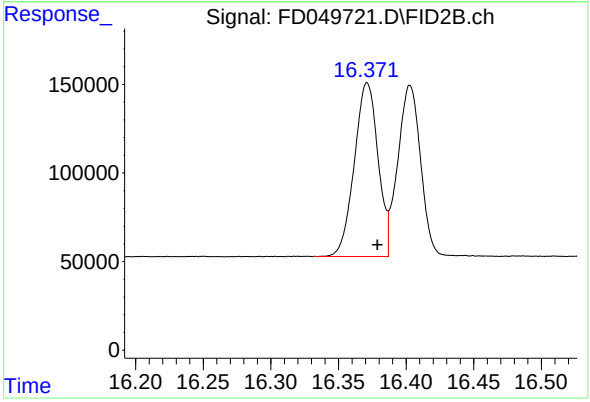
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: -0.008 min
Response: 1173101
Conc: 9.74 ug/ml



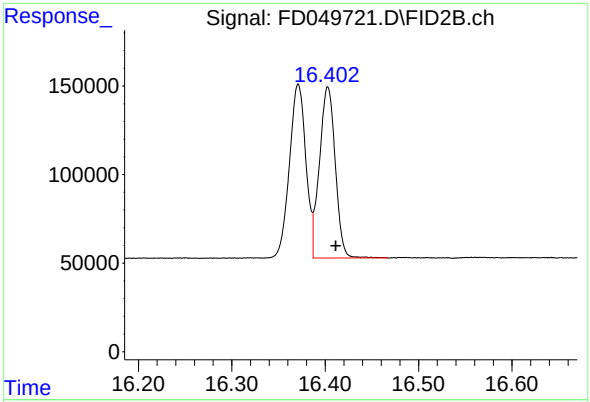
#15 Chrysene (C27.41)

R.T.: 14.863 min
Delta R.T.: -0.007 min
Response: 1194158
Conc: 9.79 ug/ml



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

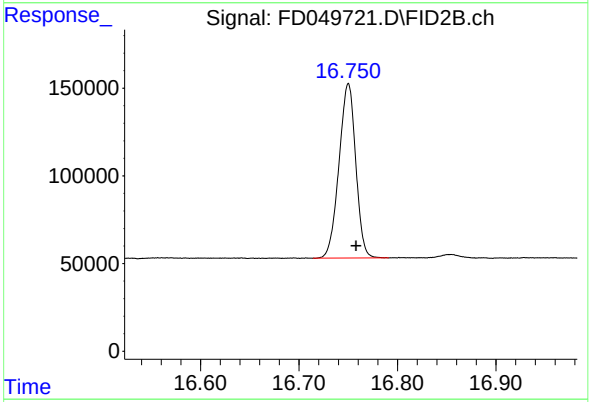
R.T.: 16.371 min
Delta R.T.: -0.008 min
Response: 1196416
Conc: 9.90 ug/ml



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

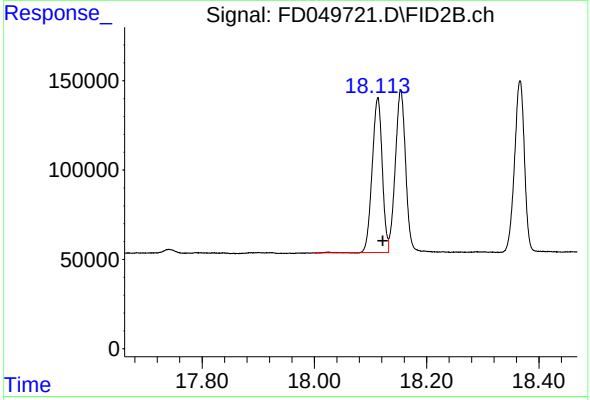
R.T.: 16.403 min
Delta R.T.: -0.009 min
Response: 1135613
Conc: 9.93 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



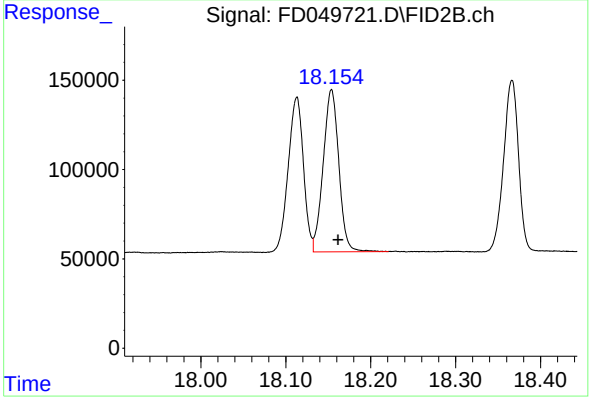
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.750 min
Delta R.T.: -0.008 min
Response: 1175249
Conc: 9.87 ug/ml



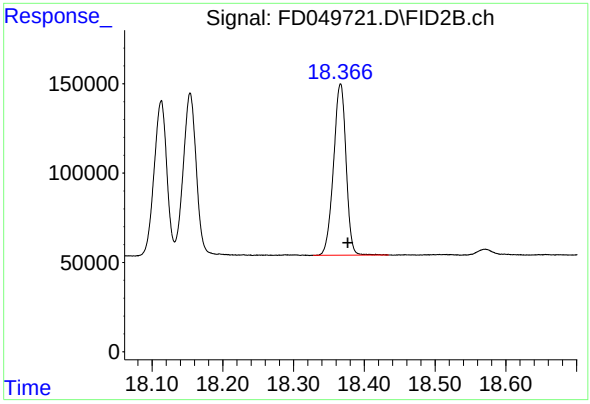
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.113 min
Delta R.T.: -0.009 min
Response: 1079787
Conc: 9.74 ug/ml



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

R.T.: 18.154 min
Delta R.T.: -0.008 min
Response: 1161284
Conc: 9.87 ug/ml



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

R.T.:	18.366 min
Delta R.T.:	-0.010 min
Response:	1177944
Conc:	9.88 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049721.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 11:38
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.489	4.464	4.558	BB	124181	1063806	76.01%	4.175%
2	6.032	6.004	6.094	BB	134532	1213442	86.71%	4.762%
3	7.085	7.054	7.134	BB	134163	1271229	90.84%	4.989%
4	7.696	7.658	7.758	BB	115807	1103950	78.88%	4.332%
5	8.364	8.334	8.424	BB	141863	1364366	97.49%	5.354%
6	8.560	8.528	8.618	BB	79804	784665	56.07%	3.079%
7	8.659	8.631	8.704	BB	139440	1365728	97.59%	5.359%
8	9.441	9.401	9.488	BB	138561	1362341	97.35%	5.346%
9	10.839	10.764	10.881	BV	132485	1363521	97.43%	5.351%
10	10.913	10.881	10.971	PB	123326	1291559	92.29%	5.068%
11	11.607	11.564	11.648	BB	128777	1399473	100.00%	5.492%
12	12.652	12.614	12.704	BV	119940	1306755	93.37%	5.128%
13	12.949	12.914	12.988	BV	119411	1298472	92.78%	5.095%
14	14.821	14.781	14.842	BV	101155	1173101	83.82%	4.603%
15	14.863	14.842	14.924	VB	106138	1194158	85.33%	4.686%
16	16.371	16.331	16.387	BV	98180	1196416	85.49%	4.695%
17	16.403	16.387	16.468	VB	96574	1135613	81.15%	4.456%
18	16.750	16.714	16.791	BB	99992	1175249	83.98%	4.612%
19	18.113	17.998	18.132	BV	87120	1079787	77.16%	4.237%
20	18.154	18.132	18.221	VB	90851	1161284	82.98%	4.557%
21	18.366	18.328	18.434	BB	96607	1177944	84.17%	4.622%
			Sum of corrected areas:			25482857		

Aromatic EPH 090425.M Fri Sep 05 06:44:37 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 05 06:22:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 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...	7.697	596288	5.289 ug/ml
Spiked Amount	50.000		Recovery =	10.58%
6) S	2-Flurobiphenyl (SURR)	8.561	420895	5.189 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	10.38%
11) S	ortho-Terphenyl (SURR)	11.607	762216	5.320 ug/ml
Spiked Amount	50.000		Recovery =	10.64%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.489	591988	5.500 ug/ml
2) T	Naphthalene (C11.7)	6.032	667521	5.359 ug/ml
3) T	2-Methylnaphthalene (...	7.086	692097	5.295 ug/ml
5) T	Acenaphthylene (C15.06)	8.364	742304	5.323 ug/ml
7) T	Acenaphthene (C15.5)	8.659	740977	5.311 ug/ml
8) T	Flouorene (C16.55)	9.441	735487	5.245 ug/ml
9) T	Phenanthrene (C19.36)	10.838	722864	5.092 ug/ml
10) T	Anthracene (C19.43)	10.913	692408	5.162 ug/ml
12) T	Fluoranthene (C21.85)	12.652	709917	5.199 ug/ml
13) T	Pyrene (C20.8)	12.949	695929	5.158 ug/ml
14) T	Benzo[a]anthracene (C...	14.821	637941	5.296 ug/ml
15) T	Chrysene (C27.41)	14.862	661550	5.421 ug/ml
16) T	benzo[b]fluoranthene ...	16.370	653575	5.410 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.401	620851	5.429 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.748	644952	5.414 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.111	584175	5.272 ug/ml
20) T	Dibenz[a,h]anthracene...	18.152	643201	5.468 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.364	635196	5.330 ug/ml

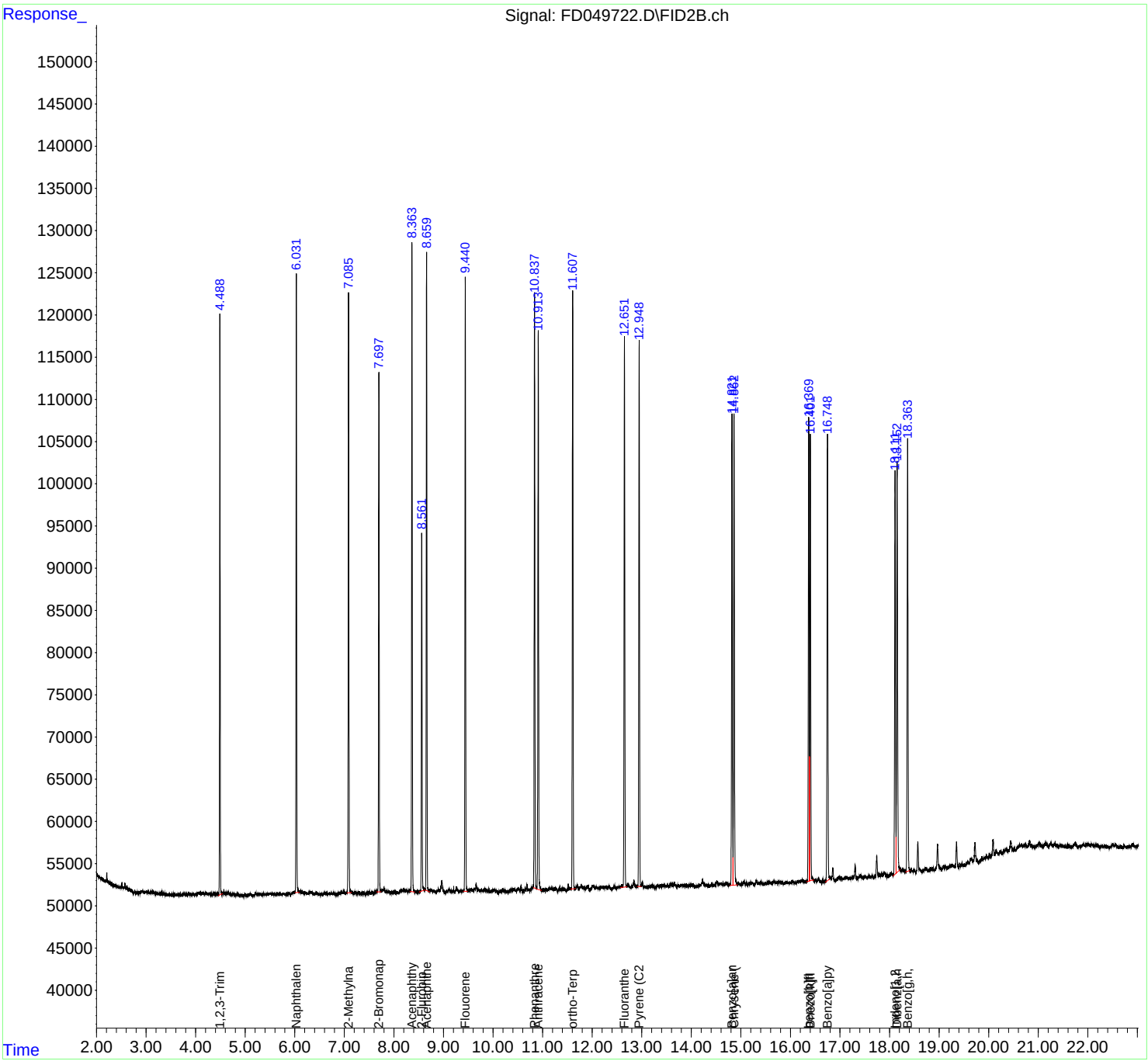
(f)=RT Delta > 1/2 Window (m)=manual int.

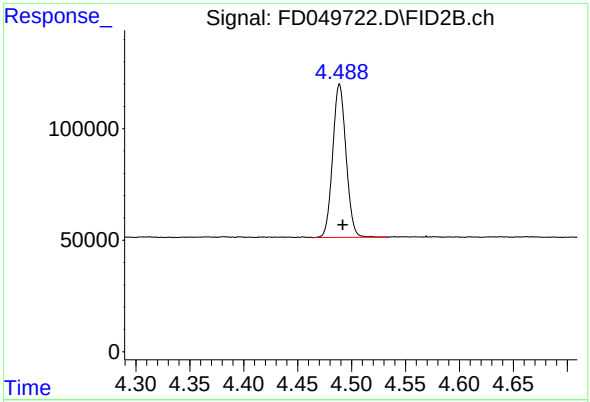
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 05 06:22:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:18:55 2025
Response via : Initial Calibration
Integrator: ChemStation

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

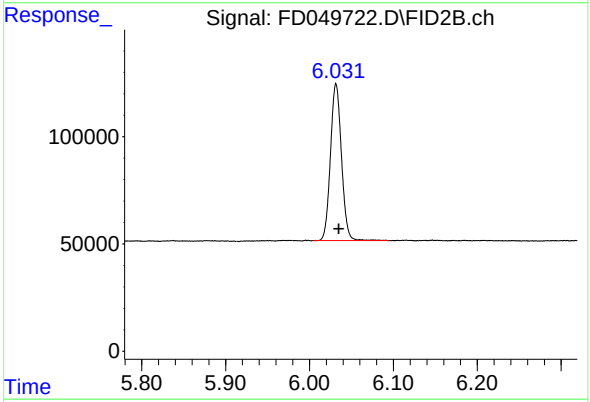




#1 1,2,3-Trimethylbenzene (C10.1)

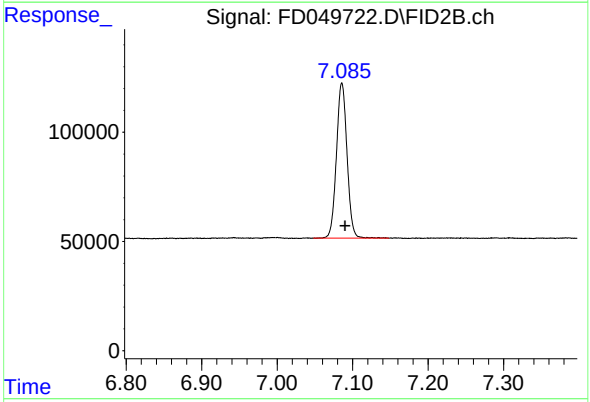
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 591988
Conc: 5.50 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



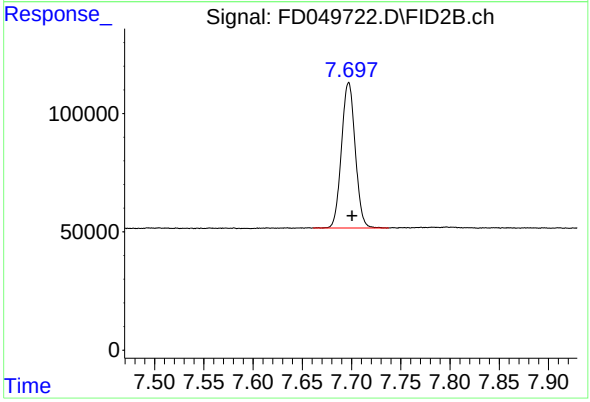
#2 Naphthalene (C11.7)

R.T.: 6.032 min
Delta R.T.: -0.003 min
Response: 667521
Conc: 5.36 ug/ml



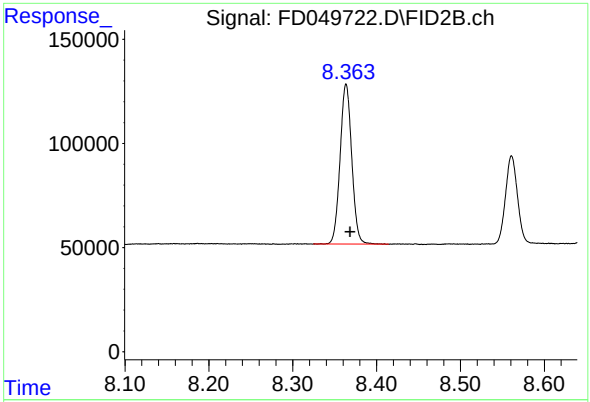
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.086 min
Delta R.T.: -0.004 min
Response: 692097
Conc: 5.29 ug/ml



#4 2-Bromonaphthalene (SURR)

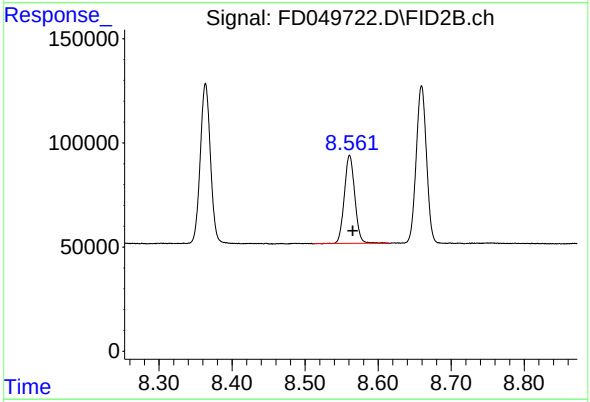
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 596288
Conc: 5.29 ug/ml



#5 Acenaphthylene (C15.06)

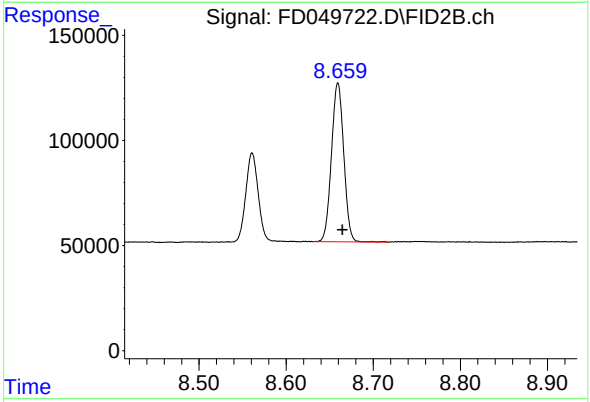
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 742304
Conc: 5.32 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



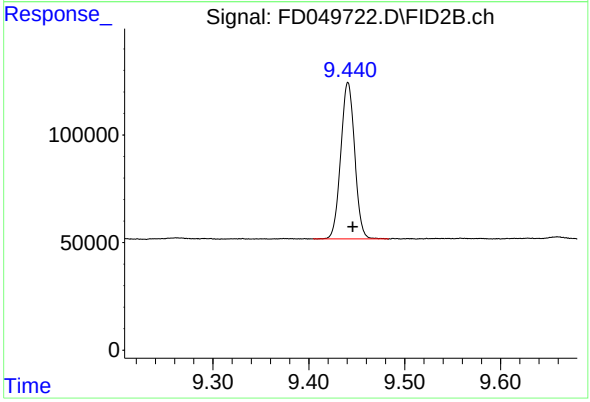
#6 2-Flurobiphenyl (SURR)

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 420895
Conc: 5.19 ug/ml



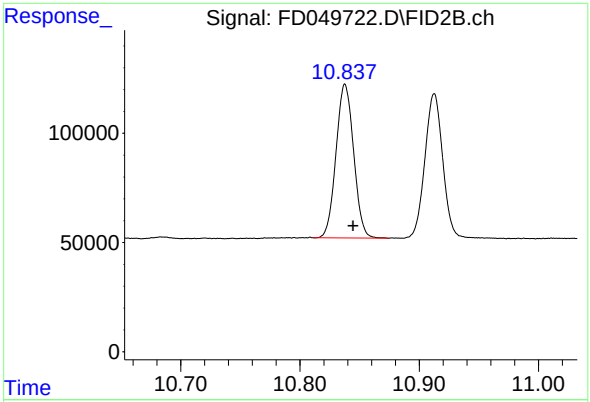
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: -0.005 min
Response: 740977
Conc: 5.31 ug/ml



#8 Flouorene (C16.55)

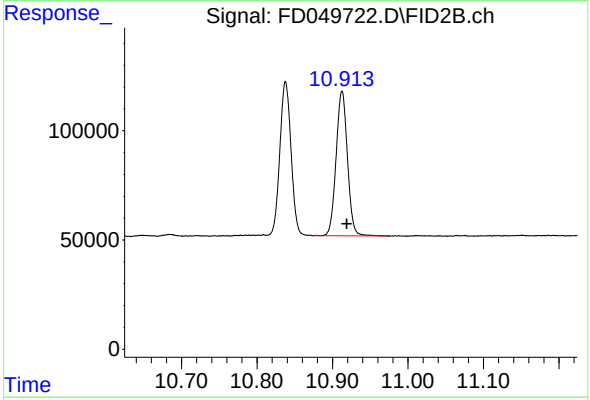
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 735487
Conc: 5.24 ug/ml



#9 Phenanthrene (C19.36)

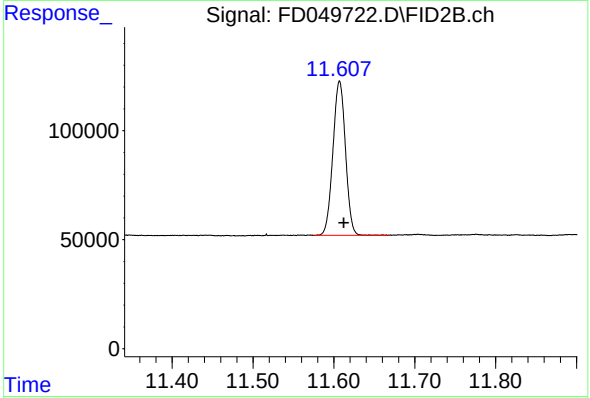
R.T.: 10.838 min
Delta R.T.: -0.007 min
Response: 722864
Conc: 5.09 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



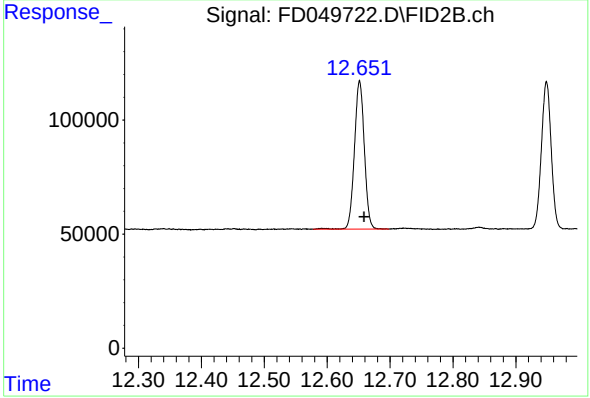
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: -0.007 min
Response: 692408
Conc: 5.16 ug/ml



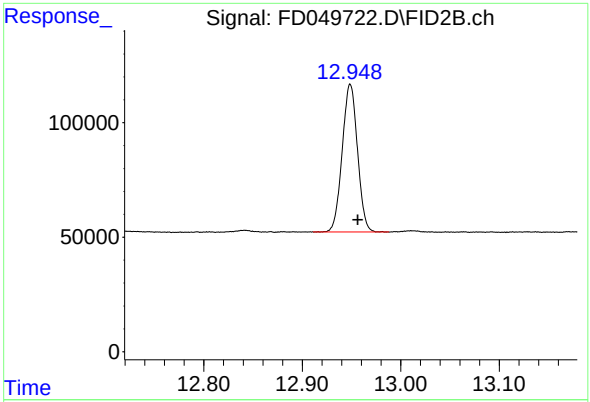
#11 ortho-Terphenyl (SURR)

R.T.: 11.607 min
Delta R.T.: -0.005 min
Response: 762216
Conc: 5.32 ug/ml



#12 Fluoranthene (C21.85)

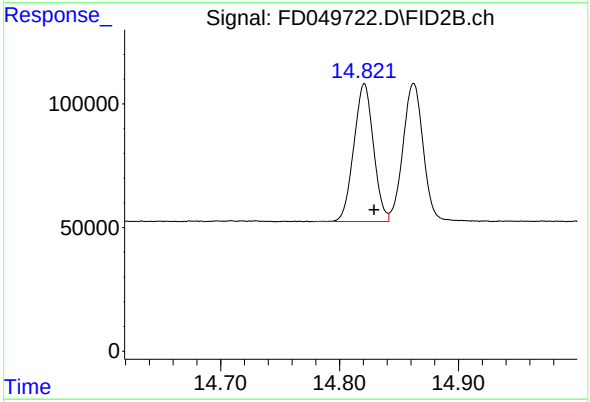
R.T.: 12.652 min
Delta R.T.: -0.007 min
Response: 709917
Conc: 5.20 ug/ml



#13 Pyrene (C20.8)

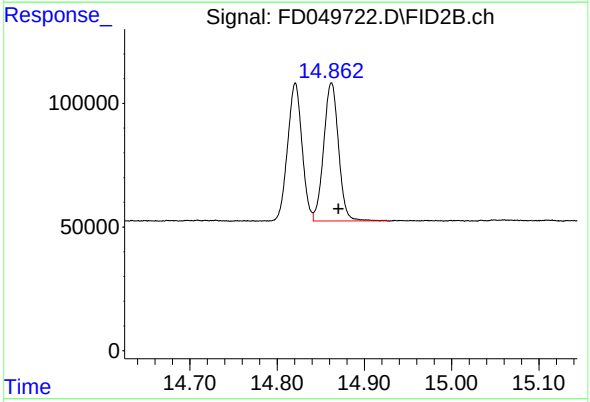
R.T.: 12.949 min
Delta R.T.: -0.008 min
Response: 695929
Conc: 5.16 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



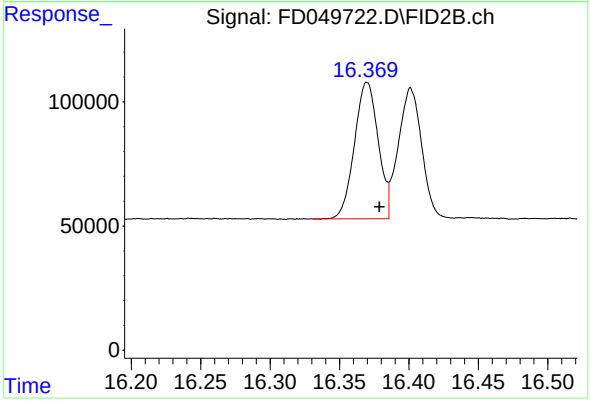
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.821 min
Delta R.T.: -0.008 min
Response: 637941
Conc: 5.30 ug/ml



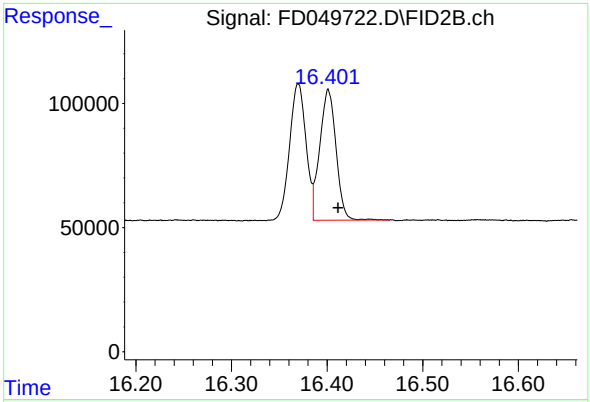
#15 Chrysene (C27.41)

R.T.: 14.862 min
Delta R.T.: -0.008 min
Response: 661550
Conc: 5.42 ug/ml



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

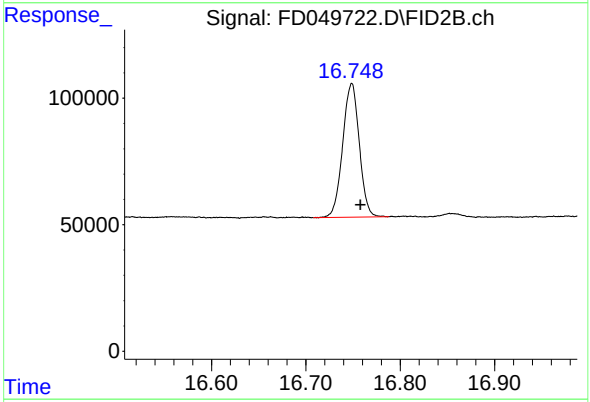
R.T.: 16.370 min
Delta R.T.: -0.009 min
Response: 653575
Conc: 5.41 ug/ml



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

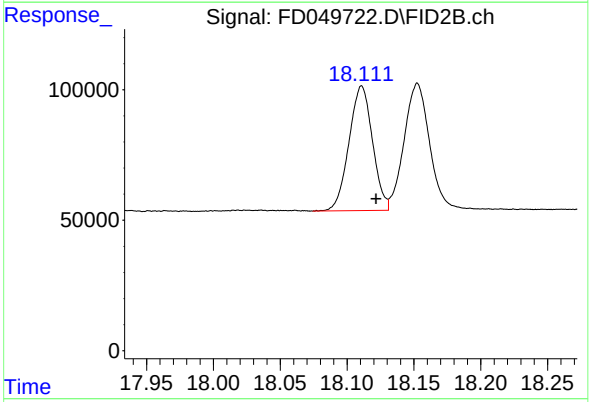
R.T.: 16.401 min
Delta R.T.: -0.010 min
Response: 620851
Conc: 5.43 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5



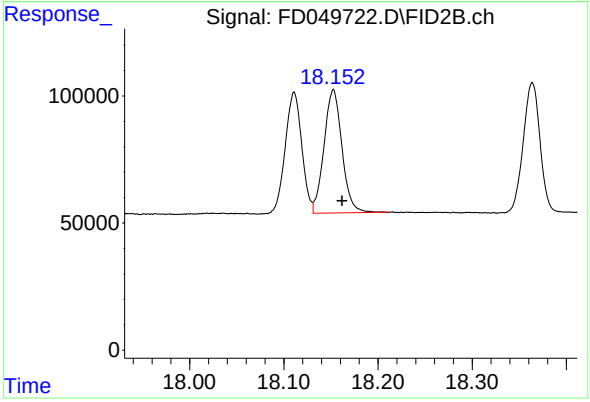
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.748 min
Delta R.T.: -0.010 min
Response: 644952
Conc: 5.41 ug/ml



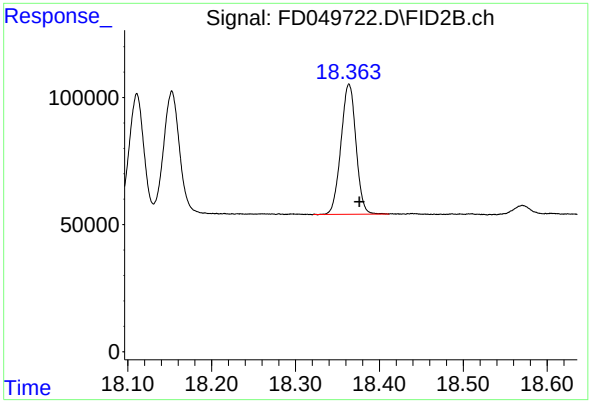
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.111 min
Delta R.T.: -0.011 min
Response: 584175
Conc: 5.27 ug/ml



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

R.T.: 18.152 min
Delta R.T.: -0.009 min
Response: 643201
Conc: 5.47 ug/ml



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

R.T.:	18.364 min
Delta R.T.:	-0.013 min
Response:	635196
Conc:	5.33 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049722.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 12:19
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.489	4.464	4.534	BB	68364	591988	77.67%	4.274%
2	6.032	6.004	6.094	BB	72868	667521	87.58%	4.819%
3	7.086	7.048	7.148	BB	70940	692097	90.80%	4.996%
4	7.697	7.661	7.738	BB	61552	596288	78.23%	4.305%
5	8.364	8.324	8.414	BB	76666	742304	97.39%	5.359%
6	8.561	8.511	8.614	BB	42276	420895	55.22%	3.038%
7	8.659	8.631	8.718	BB	75382	740977	97.21%	5.349%
8	9.441	9.404	9.483	BB	72685	735487	96.49%	5.309%
9	10.838	10.811	10.874	BV	70347	722864	94.84%	5.218%
10	10.913	10.874	10.974	PB	65896	692408	90.84%	4.998%
11	11.607	11.574	11.668	BB	70704	762216	100.00%	5.502%
12	12.652	12.578	12.698	BV	64853	709917	93.14%	5.125%
13	12.949	12.911	12.988	BV	64502	695929	91.30%	5.024%
14	14.821	14.778	14.841	BV	55846	637941	83.70%	4.605%
15	14.862	14.841	14.928	VB	55811	661550	86.79%	4.776%
16	16.370	16.331	16.386	BV	55126	653575	85.75%	4.718%
17	16.401	16.386	16.464	VB	52548	620851	81.45%	4.482%
18	16.748	16.708	16.788	BB	52614	644952	84.62%	4.656%
19	18.111	18.074	18.131	BV	47841	584175	76.64%	4.217%
20	18.152	18.131	18.211	VB	48113	643201	84.39%	4.643%
21	18.364	18.321	18.411	BB	51167	635196	83.34%	4.585%
					Sum of corrected areas:	13852330		

Aromatic EPH 090425.M Fri Sep 05 06:44:54 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 05 06:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.697	2231641	19.843 ug/ml
Spiked Amount	50.000		Recovery =	39.69%
6) S	2-Flurobiphenyl (SURR)	8.562	1599409	19.925 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.85%
11) S	ortho-Terphenyl (SURR)	11.609	2804214	19.820 ug/ml
Spiked Amount	50.000		Recovery =	39.64%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.487	2140546	19.865 ug/ml
2) T	Naphthalene (C11.7)	6.031	2479492	19.938 ug/ml
3) T	2-Methylnaphthalene (...	7.086	2596693	19.924 ug/ml
5) T	Acenaphthylene (C15.06)	8.365	2749499	19.832 ug/ml
7) T	Acenaphthene (C15.5)	8.661	2751173	19.846 ug/ml
8) T	Flouorene (C16.55)	9.442	2761041	19.905 ug/ml
9) T	Phenanthrene (C19.36)	10.840	2765682	19.854 ug/ml
10) T	Anthracene (C19.43)	10.915	2617228	19.821 ug/ml
12) T	Fluoranthene (C21.85)	12.655	2654106	19.708 ug/ml
13) T	Pyrene (C20.8)	12.952	2629491	19.767 ug/ml
14) T	Benzo[a]anthracene (C...	14.824	2340110	19.569 ug/ml
15) T	Chrysene (C27.41)	14.867	2375059	19.523 ug/ml
16) T	benzo[b]fluoranthene ...	16.375	2350033	19.605 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.407	2218226	19.687 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.754	2314710	19.725 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.117	2138000	19.652 ug/ml
20) T	Dibenz[a,h]anthracene...	18.158	2236318	19.626 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.373	2303694	19.798 ug/ml

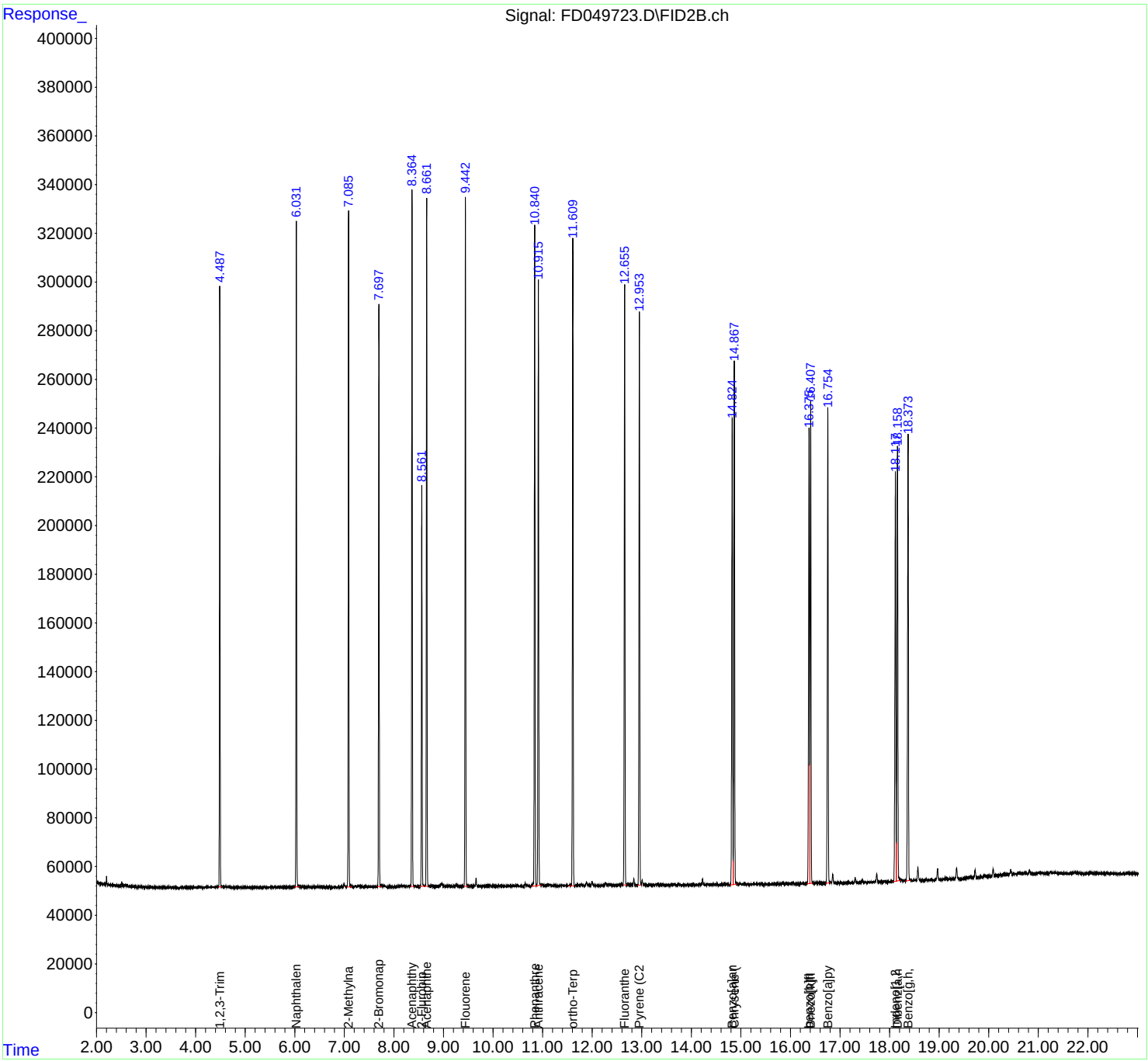
(f)=RT Delta > 1/2 Window (m)=manual int.

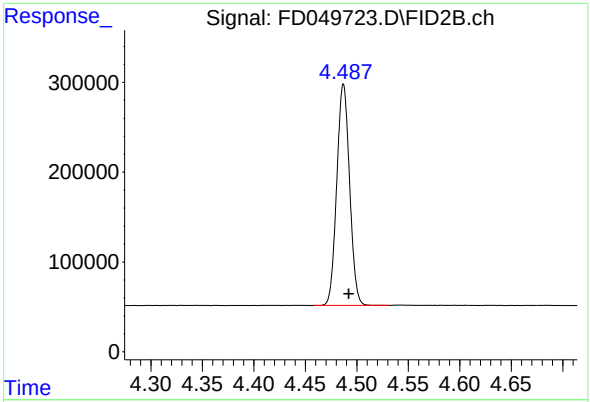
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 05 06:33:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

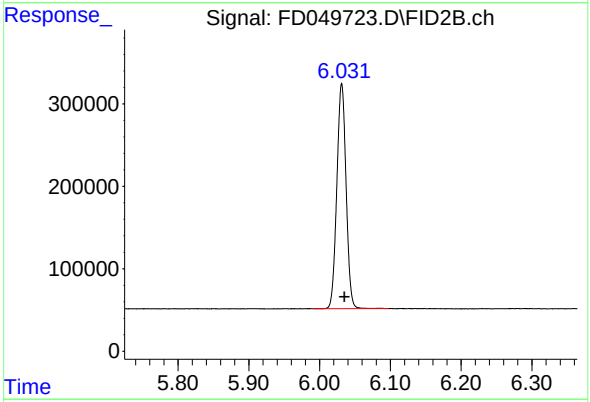




#1 1,2,3-Trimethylbenzene (C10.1)

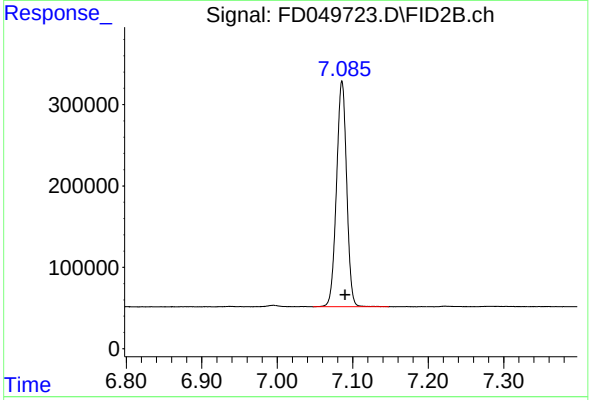
R.T.: 4.487 min
Delta R.T.: -0.005 min
Response: 2140546
Conc: 19.87 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



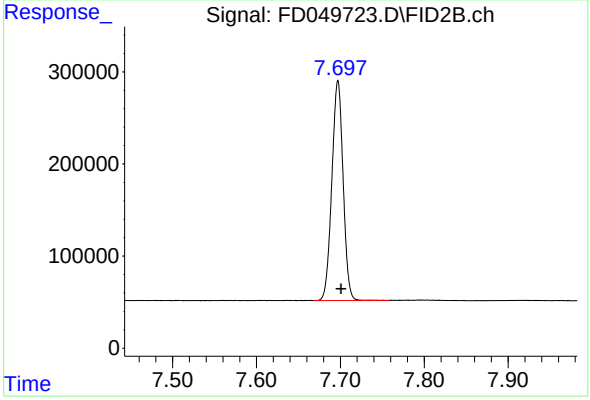
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: -0.004 min
Response: 2479492
Conc: 19.94 ug/ml



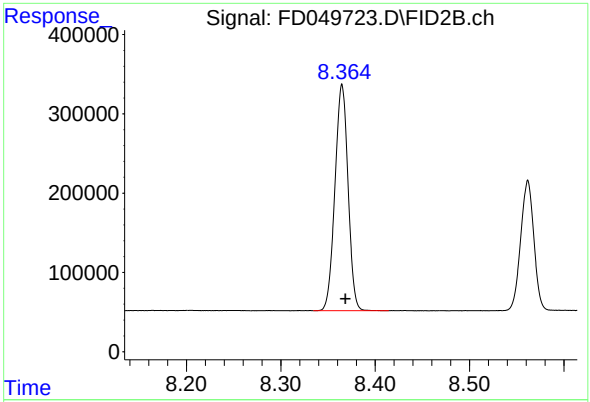
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.086 min
Delta R.T.: -0.004 min
Response: 2596693
Conc: 19.92 ug/ml



#4 2-Bromonaphthalene (SURR)

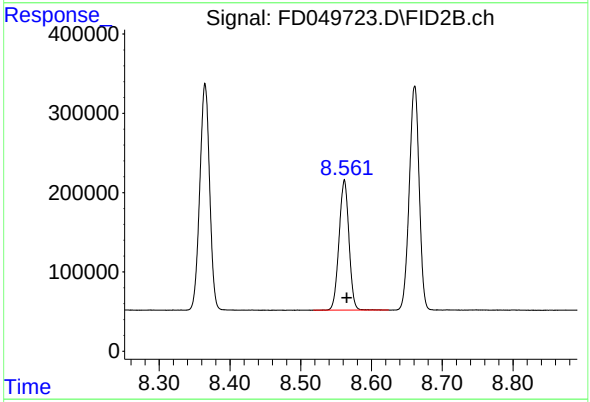
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 2231641
Conc: 19.84 ug/ml



#5 Acenaphthylene (C15.06)

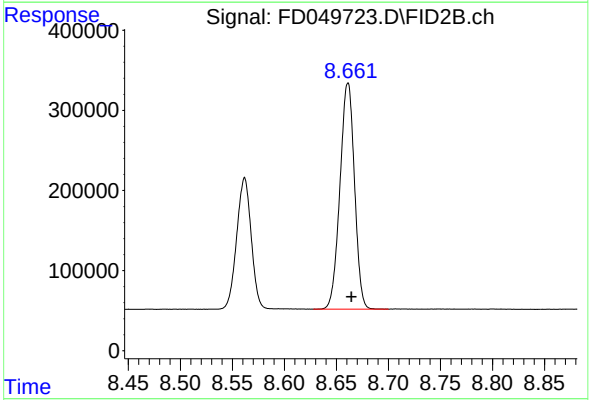
R.T.: 8.365 min
Delta R.T.: -0.004 min
Response: 2749499
Conc: 19.83 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



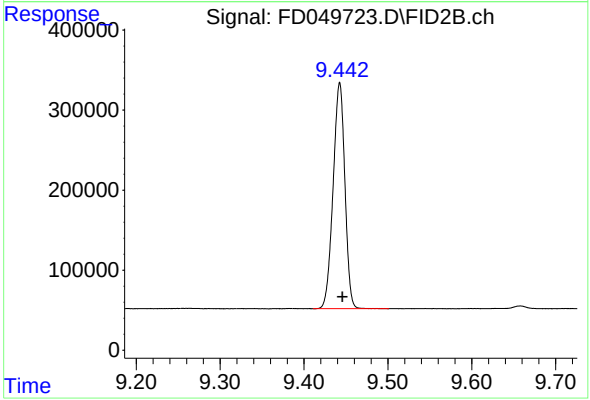
#6 2-Flurobiphenyl (SURR)

R.T.: 8.562 min
Delta R.T.: -0.004 min
Response: 1599409
Conc: 19.93 ug/ml



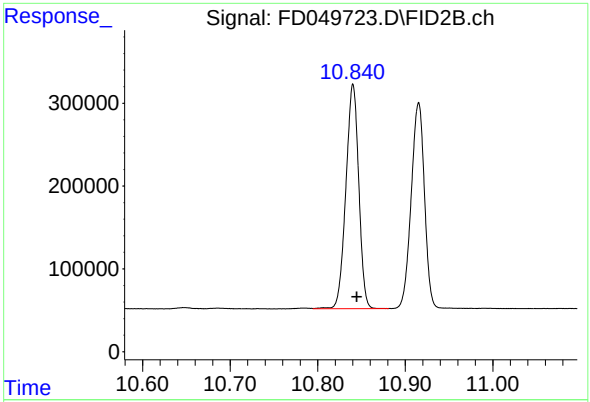
#7 Acenaphthene (C15.5)

R.T.: 8.661 min
Delta R.T.: -0.004 min
Response: 2751173
Conc: 19.85 ug/ml



#8 Flouorene (C16.55)

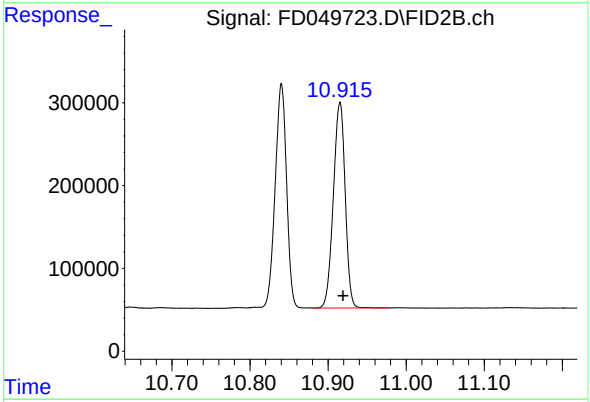
R.T.: 9.442 min
Delta R.T.: -0.003 min
Response: 2761041
Conc: 19.90 ug/ml



#9 Phenanthrene (C19.36)

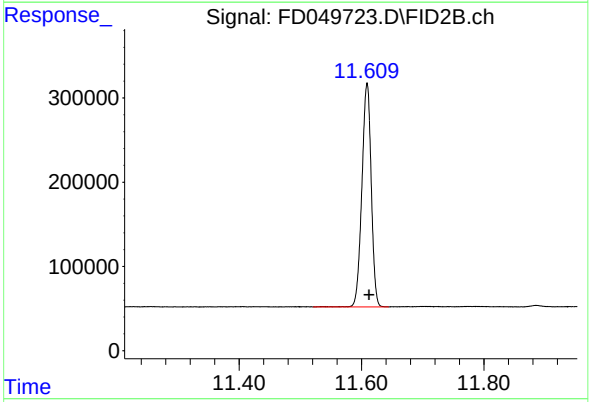
R.T.: 10.840 min
Delta R.T.: -0.004 min
Response: 2765682
Conc: 19.85 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



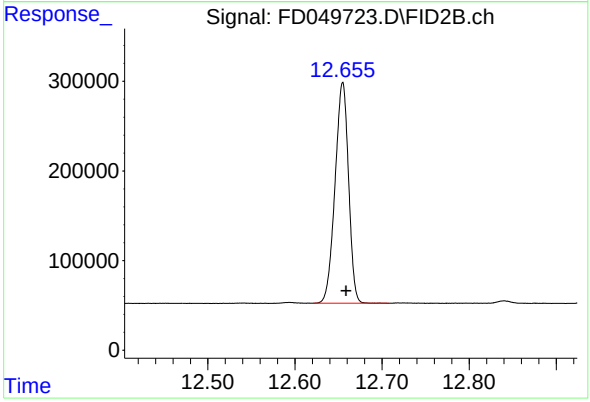
#10 Anthracene (C19.43)

R.T.: 10.915 min
Delta R.T.: -0.004 min
Response: 2617228
Conc: 19.82 ug/ml



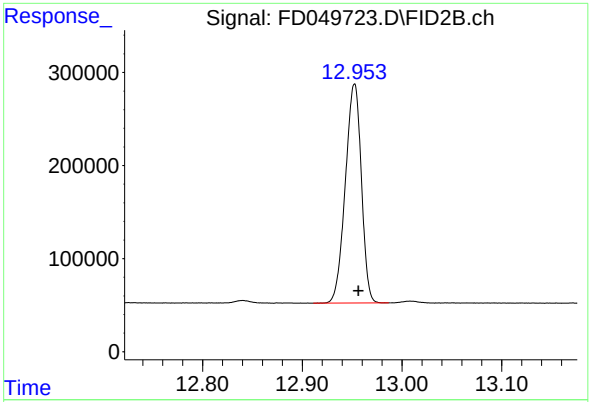
#11 ortho-Terphenyl (SURR)

R.T.: 11.609 min
Delta R.T.: -0.003 min
Response: 2804214
Conc: 19.82 ug/ml



#12 Fluoranthene (C21.85)

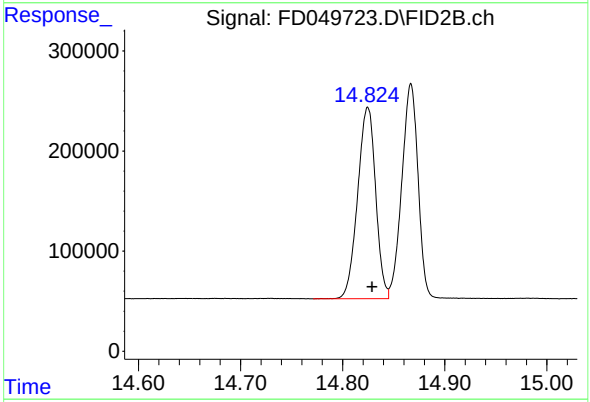
R.T.: 12.655 min
Delta R.T.: -0.004 min
Response: 2654106
Conc: 19.71 ug/ml



#13 Pyrene (C20.8)

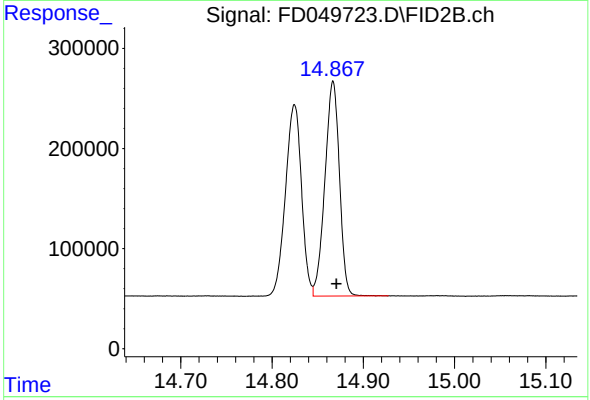
R.T.: 12.952 min
Delta R.T.: -0.004 min
Response: 2629491
Conc: 19.77 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



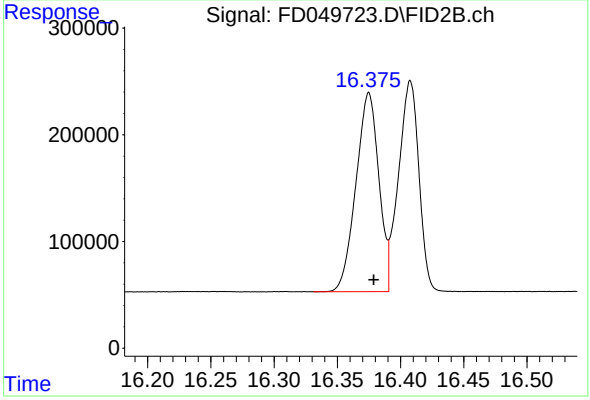
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.824 min
Delta R.T.: -0.005 min
Response: 2340110
Conc: 19.57 ug/ml



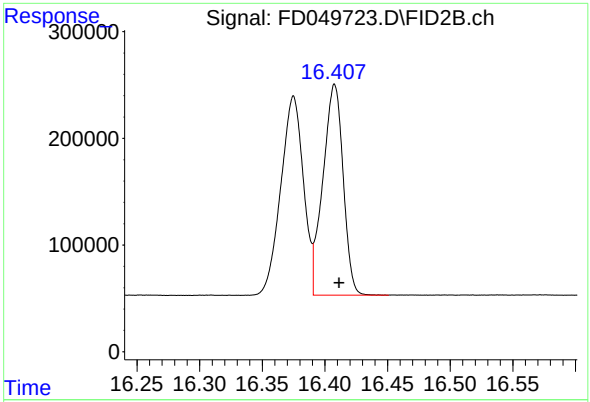
#15 Chrysene (C27.41)

R.T.: 14.867 min
Delta R.T.: -0.004 min
Response: 2375059
Conc: 19.52 ug/ml



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

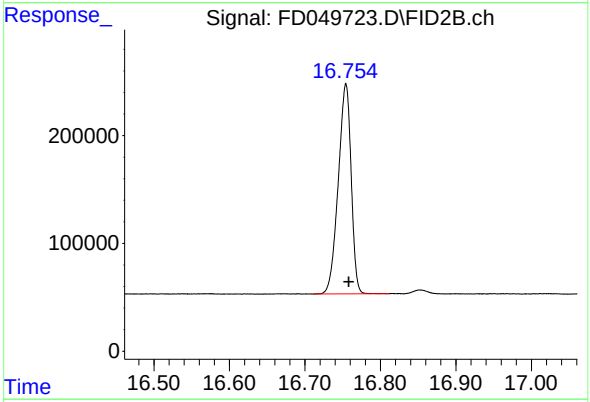
R.T.: 16.375 min
Delta R.T.: -0.004 min
Response: 2350033
Conc: 19.61 ug/ml



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

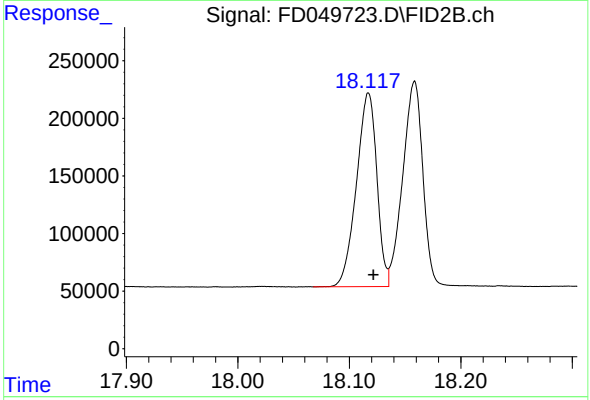
R.T.: 16.407 min
Delta R.T.: -0.004 min
Response: 2218226
Conc: 19.69 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



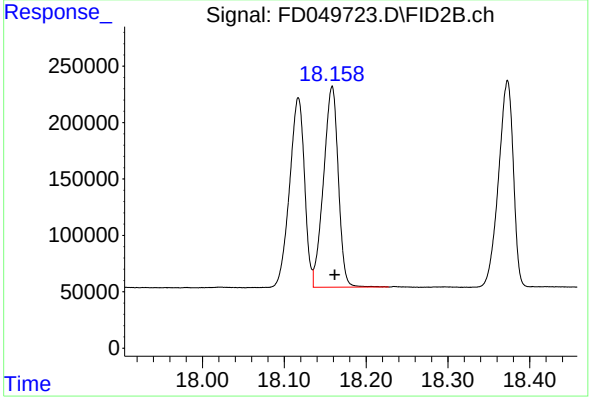
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.754 min
Delta R.T.: -0.004 min
Response: 2314710
Conc: 19.73 ug/ml



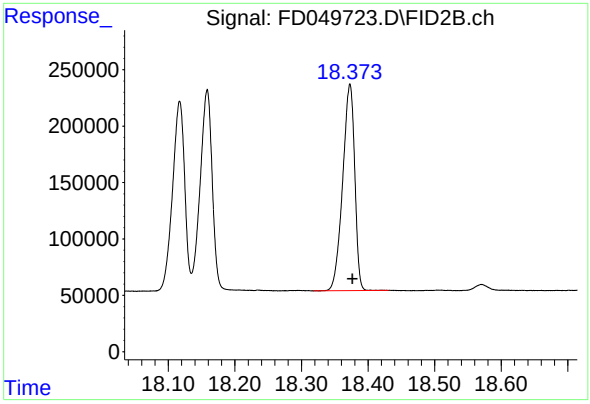
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.117 min
Delta R.T.: -0.005 min
Response: 2138000
Conc: 19.65 ug/ml



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

R.T.: 18.158 min
Delta R.T.: -0.004 min
Response: 2236318
Conc: 19.63 ug/ml



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

R.T.: 18.373 min
Delta R.T.: -0.004 min
Response: 2303694
Conc: 19.80 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD090425AR\
Data File : FD049723.D
Signal(s) : FID2B.ch
Acq On : 04 Sep 2025 13:00
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.487	4.458	4.531	BB	246115	2140546	76.33%	4.193%
2	6.031	5.991	6.098	BB	272485	2479492	88.42%	4.856%
3	7.086	7.048	7.148	BB	275318	2596693	92.60%	5.086%
4	7.697	7.668	7.758	BB	239042	2231641	79.58%	4.371%
5	8.365	8.334	8.414	BB	284957	2749499	98.05%	5.385%
6	8.562	8.518	8.624	BB	162641	1599409	57.04%	3.133%
7	8.661	8.628	8.700	BB	283355	2751173	98.11%	5.389%
8	9.442	9.411	9.501	BB	279347	2761041	98.46%	5.408%
9	10.840	10.795	10.881	VV	271275	2765682	98.63%	5.417%
10	10.915	10.881	10.978	VB	247545	2617228	93.33%	5.126%
11	11.609	11.521	11.644	BB	263980	2804214	100.00%	5.492%
12	12.655	12.621	12.708	BB	246534	2654106	94.65%	5.198%
13	12.952	12.911	12.987	BV	234856	2629491	93.77%	5.150%
14	14.824	14.771	14.845	BV	191324	2340110	83.45%	4.583%
15	14.867	14.845	14.928	VB	215019	2375059	84.70%	4.652%
16	16.375	16.331	16.391	BV	186222	2350033	83.80%	4.603%
17	16.408	16.391	16.451	VB	198031	2218226	79.10%	4.345%
18	16.754	16.711	16.811	BB	195320	2314710	82.54%	4.534%
19	18.117	18.068	18.135	BV	168949	2138000	76.24%	4.188%
20	18.158	18.135	18.228	VB	177787	2236318	79.75%	4.380%
21	18.373	18.318	18.431	BB	181688	2303694	82.15%	4.512%
			Sum of corrected areas:			51056365		

Aromatic EPH 090425.M Fri Sep 05 06:45:12 2025

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

Inital Calibration Report for SequenceID : FF092425AR

AreaCount

Parameter Range	FF016431.D	FF016432.D	FF016433.D	FF016434.D	FF016435.D	
Aromatic C10-C12	26571922.000	12782593.000	5812094.000	3378672.000	1416900.000	
Aromatic C12-C16	40903703.000	19727791.000	8893990.000	5140294.000	2077321.000	
Aromatic C16-C21	52642385.000	25632968.000	11754819.000	6912075.000	2827142.000	
Aromatic C21-C36	104382932.000	51250874.000	23922689.000	14310932.000	5957294.000	
Aromatic EPH	224500942.000	109394226.000	50383592.000	29741973.000	12278657.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	143322.298	11.099				
Aromatic C12-C16	145185.7299994	10.908				
Aromatic C16-C21	144173.003	12.258				
Aromatic C21-C36	130834.0722218	13.823				
Aromatic EPH	137577.8026664	12.558				

Concentration

Parameter Range	FF016431.D	FF016432.D	FF016433.D	FF016434.D	FF016435.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	FF016431.D	FF016432.D	FF016433.D	FF016434.D	FF016435.D	
Aromatic C10-C12	132859.610000	127825.930000	145302.350000	168933.600000	141690.000000	
Aromatic C12-C16	136345.676666	131518.606666	148233.166666	171343.133333	138488.066666	
Aromatic C16-C21	131605.962500	128164.840000	146935.237500	172801.875000	141357.100000	
Aromatic C21-C36	115981.035555	113890.831111	132903.827777	159010.355555	132384.311111	
Aromatic EPH	124722.745555	121549.140000	139954.422222	165233.183333	136429.522222	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:18:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 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...	8.039	11754305	95.774 ug/ml
Spiked Amount	50.000		Recovery =	191.55%
6) S	2-Flurobiphenyl (SURR)	8.917	8058977	96.138 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	192.28%#
11) S	ortho-Terphenyl (SURR)	11.986	13753707	94.360 ug/ml
Spiked Amount	50.000		Recovery =	188.72%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.630	12963406	95.293 ug/ml
2) T	Naphthalene (C11.7)	6.309	13608516	95.751 ug/ml
3) T	2-Methylnaphthalene (...	7.411	13820236	95.722 ug/ml
5) T	Acenaphthylene (C15.06)	8.719	13570625	95.611 ug/ml
7) T	Acenaphthene (C15.5)	9.020	13512842	96.140 ug/ml
8) T	Flouorene (C16.55)	9.810	13450975	94.941 ug/ml
9) T	Phenanthrene (C19.36)	11.220	13438313	94.914 ug/ml
10) T	Anthracene (C19.43)	11.297	12723925	93.585 ug/ml
12) T	Fluoranthene (C21.85)	13.047	13192658	94.131 ug/ml
13) T	Pyrene (C20.8)	13.348	13029172	94.511 ug/ml
14) T	Benzo[a]anthracene (C...	15.231	12303315	93.967 ug/ml
15) T	Chrysene (C27.41)	15.280	12463435	93.088 ug/ml
16) T	benzo[b]fluoranthene ...	16.796	11802907	93.353 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.835	10991506	92.578 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.181	11301951	93.024 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.558	10849044	96.965 ug/ml
20) T	Dibenz[a,h]anthracene...	18.597	10510879	89.285 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.822	10967237	93.492 ug/ml

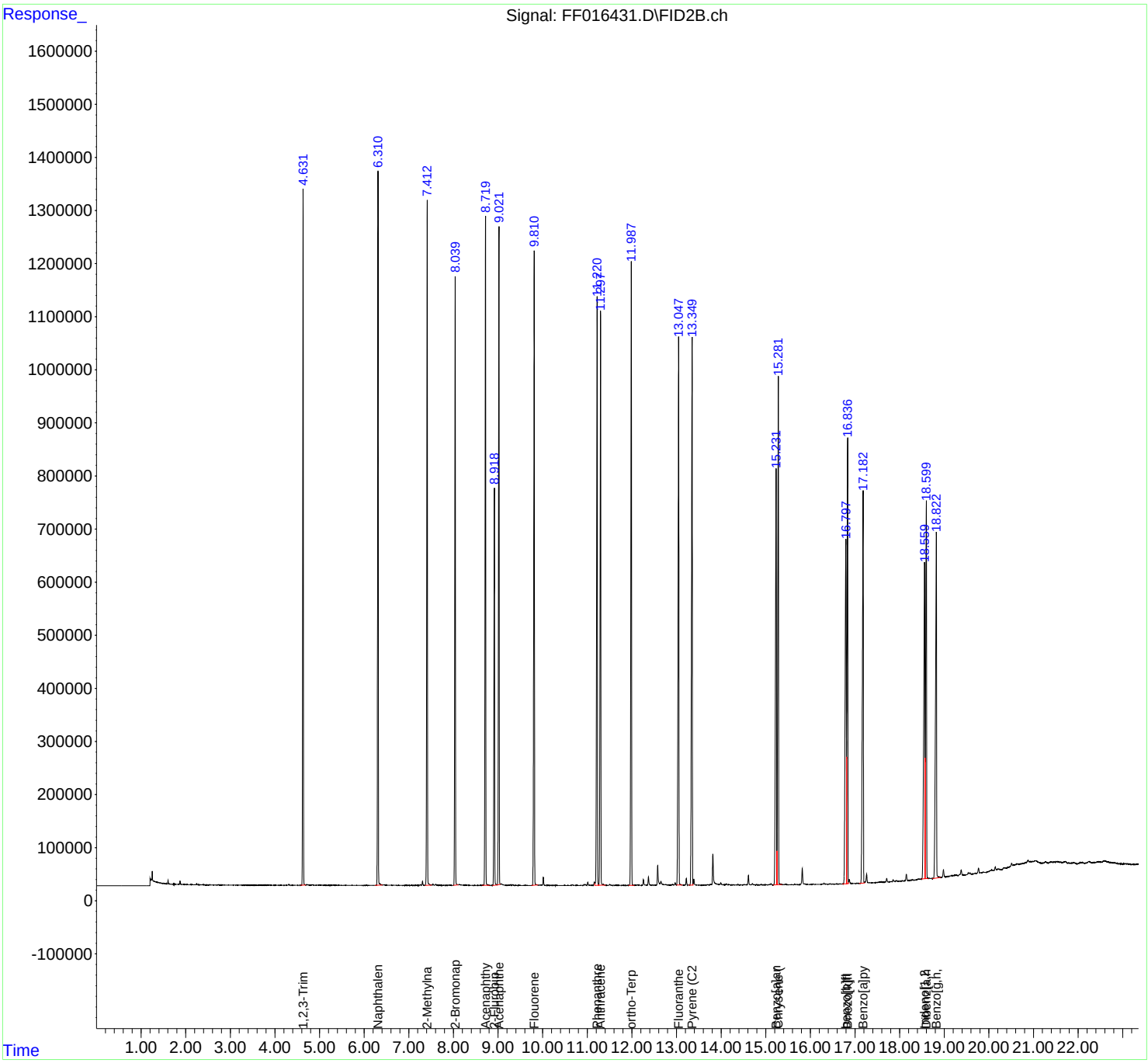
(f)=RT Delta > 1/2 Window (m)=manual int.

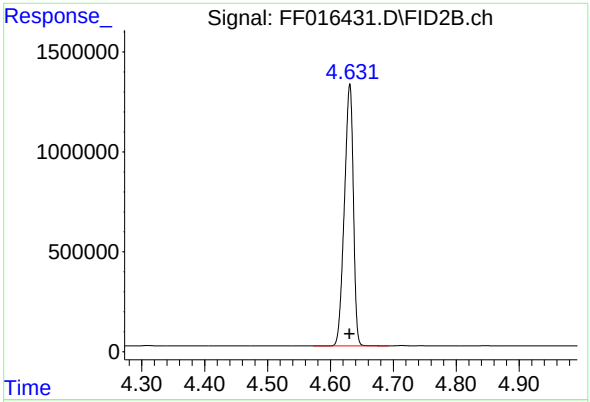
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:18:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

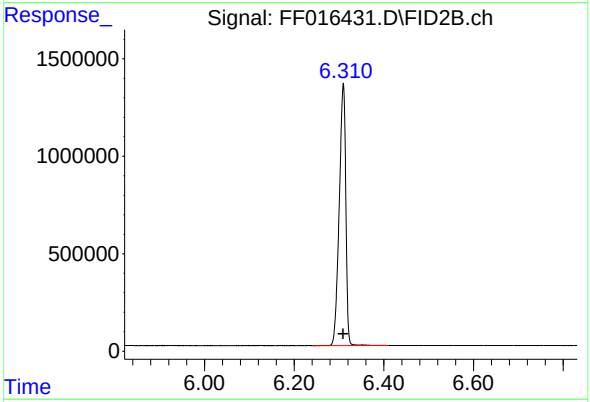




#1 1,2,3-Trimethylbenzene (C10.1)

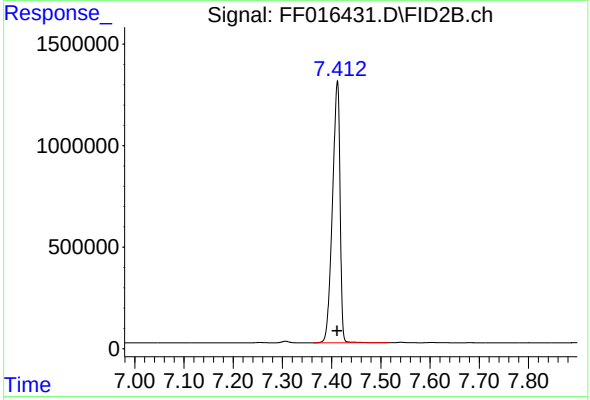
R.T.: 4.630 min
Delta R.T.: 0.000 min
Response: 12963406
Conc: 95.29 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



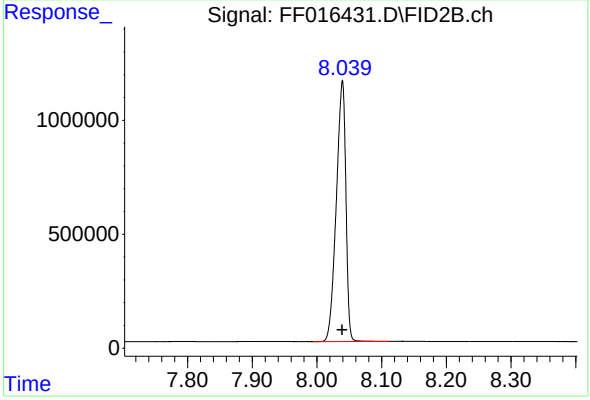
#2 Naphthalene (C11.7)

R.T.: 6.309 min
Delta R.T.: 0.000 min
Response: 13608516
Conc: 95.75 ug/ml



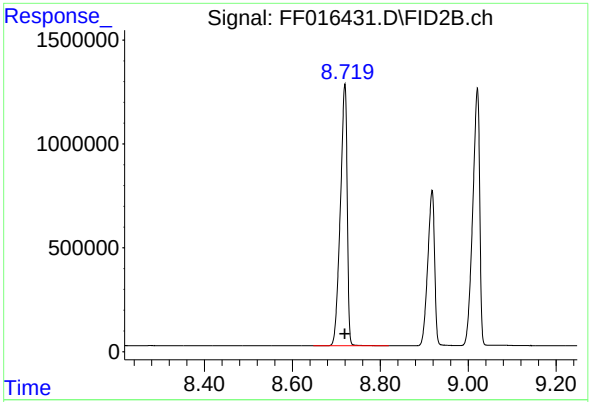
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.411 min
Delta R.T.: 0.000 min
Response: 13820236
Conc: 95.72 ug/ml



#4 2-Bromonaphthalene (SURR)

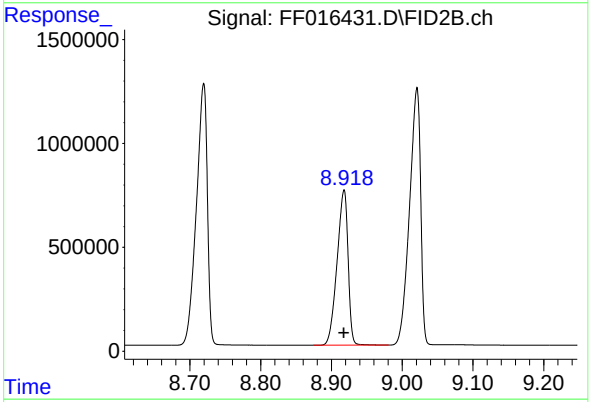
R.T.: 8.039 min
Delta R.T.: 0.000 min
Response: 11754305
Conc: 95.77 ug/ml



#5 Acenaphthylene (C15.06)

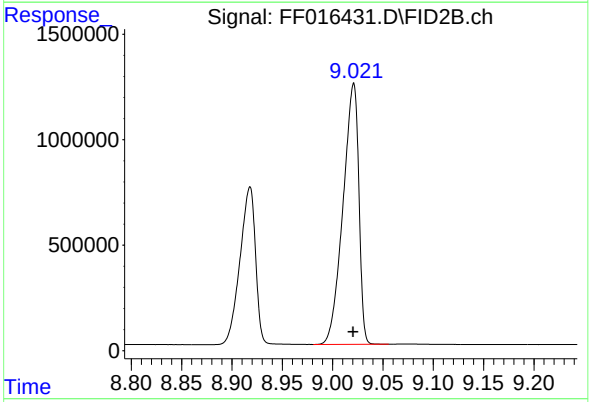
R.T.: 8.719 min
Delta R.T.: 0.000 min
Response: 13570625
Conc: 95.61 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



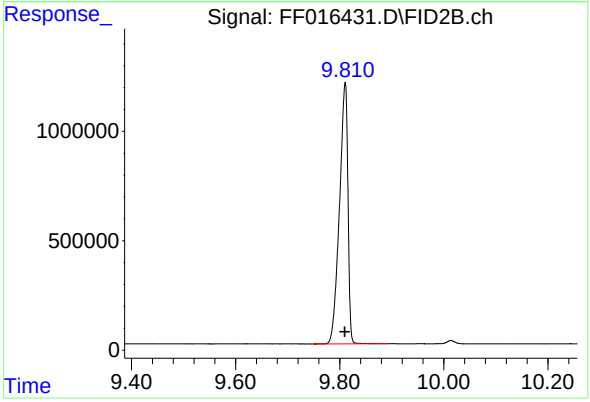
#6 2-Flurobiphenyl (SURR)

R.T.: 8.917 min
Delta R.T.: 0.000 min
Response: 8058977
Conc: 96.14 ug/ml



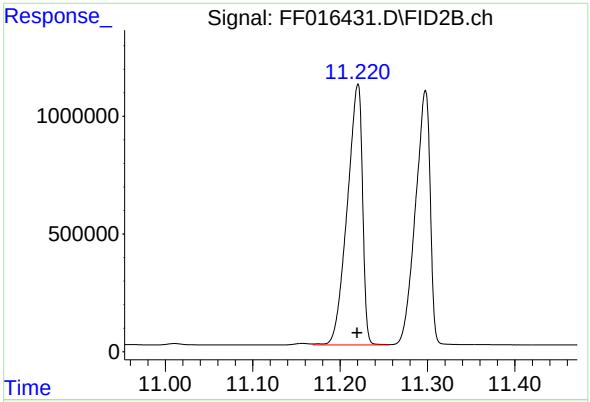
#7 Acenaphthene (C15.5)

R.T.: 9.020 min
Delta R.T.: 0.000 min
Response: 13512842
Conc: 96.14 ug/ml



#8 Flouorene (C16.55)

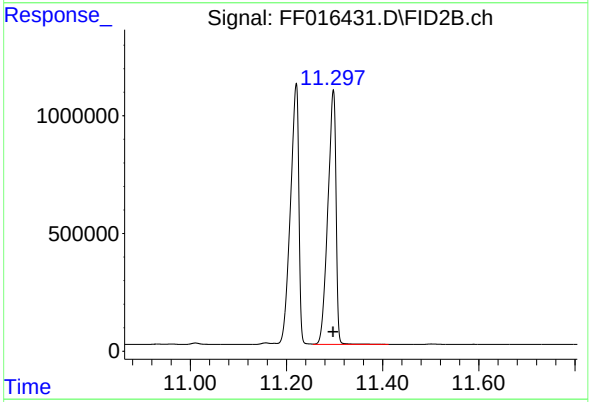
R.T.: 9.810 min
Delta R.T.: 0.000 min
Response: 13450975
Conc: 94.94 ug/ml



#9 Phenanthrene (C19.36)

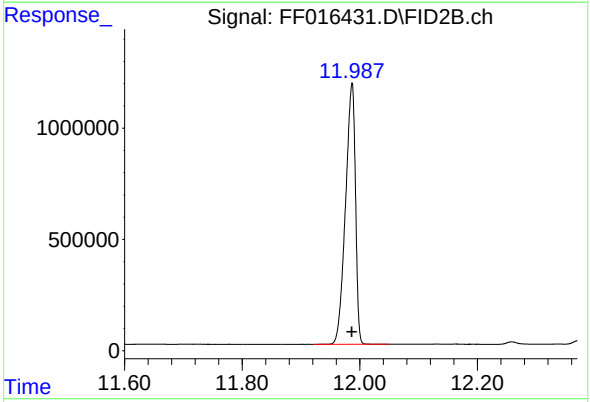
R.T.: 11.220 min
Delta R.T.: 0.000 min
Response: 13438313
Conc: 94.91 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



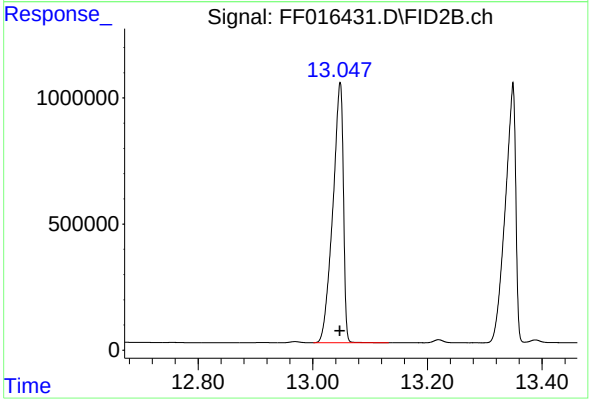
#10 Anthracene (C19.43)

R.T.: 11.297 min
Delta R.T.: 0.000 min
Response: 12723925
Conc: 93.58 ug/ml



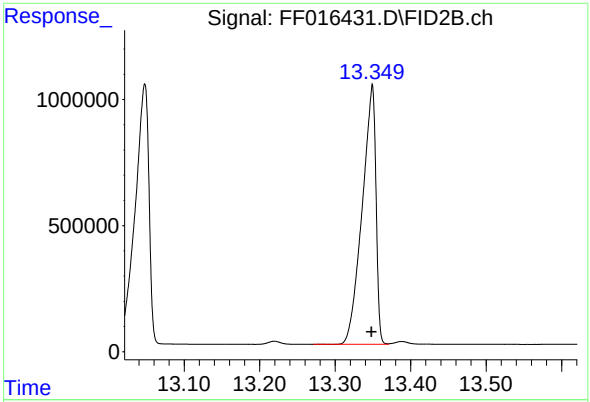
#11 ortho-Terphenyl (SURR)

R.T.: 11.986 min
Delta R.T.: 0.000 min
Response: 13753707
Conc: 94.36 ug/ml



#12 Fluoranthene (C21.85)

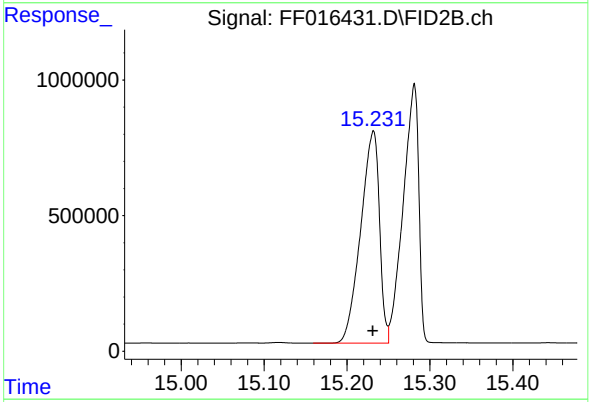
R.T.: 13.047 min
Delta R.T.: 0.000 min
Response: 13192658
Conc: 94.13 ug/ml



#13 Pyrene (C20.8)

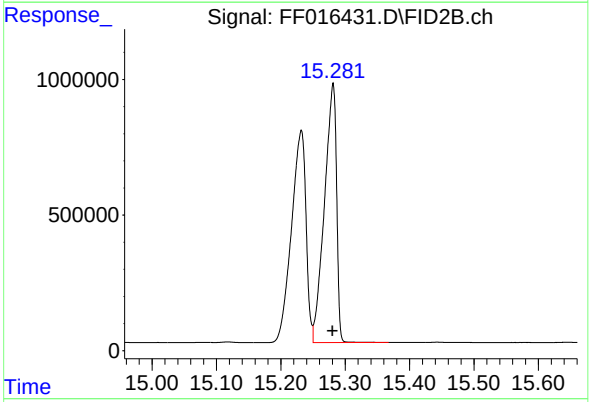
R.T.: 13.348 min
Delta R.T.: 0.000 min
Response: 13029172
Conc: 94.51 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



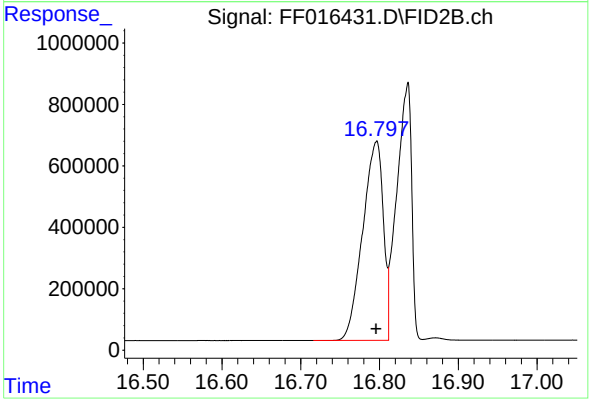
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.231 min
Delta R.T.: 0.000 min
Response: 12303315
Conc: 93.97 ug/ml



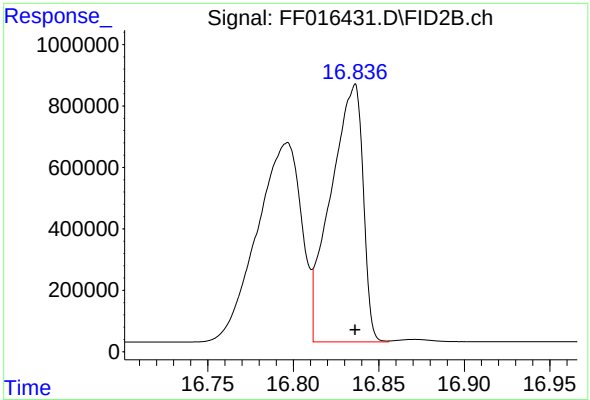
#15 Chrysene (C27.41)

R.T.: 15.280 min
Delta R.T.: 0.000 min
Response: 12463435
Conc: 93.09 ug/ml



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

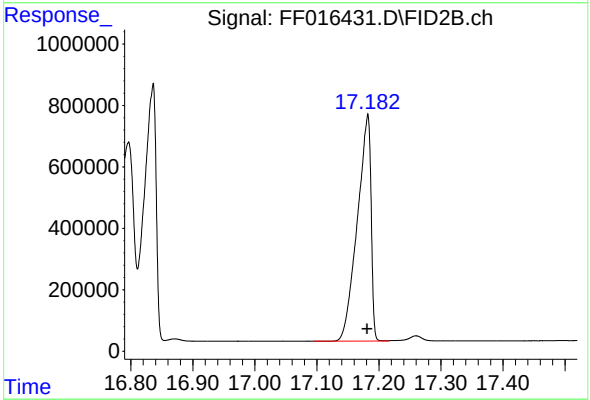
R.T.: 16.796 min
Delta R.T.: 0.000 min
Response: 11802907
Conc: 93.35 ug/ml



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

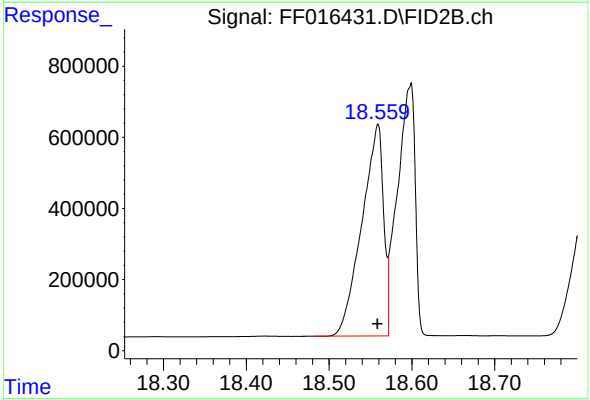
R.T.: 16.835 min
Delta R.T.: -0.002 min
Response: 10991506
Conc: 92.58 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



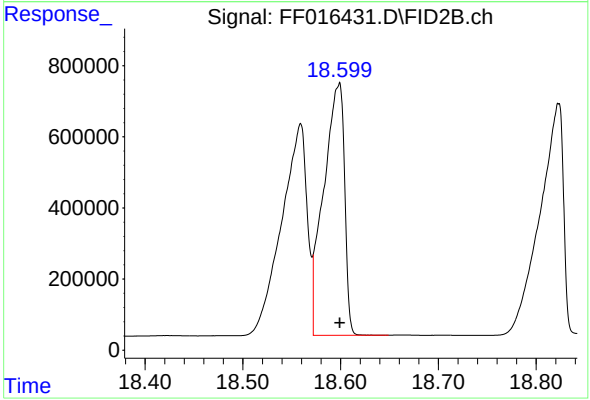
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.181 min
Delta R.T.: 0.000 min
Response: 11301951
Conc: 93.02 ug/ml



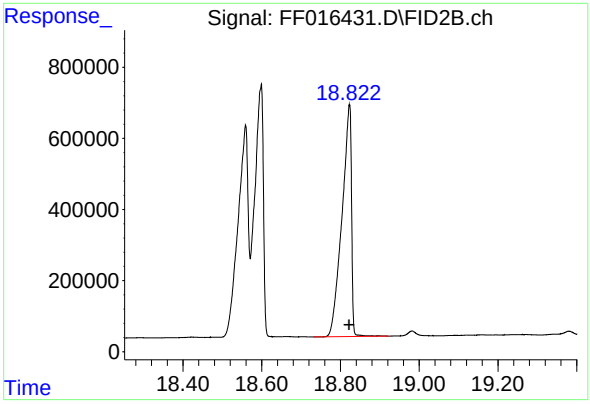
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.558 min
Delta R.T.: 0.000 min
Response: 10849044
Conc: 96.96 ug/ml



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

R.T.: 18.597 min
Delta R.T.: -0.002 min
Response: 10510879
Conc: 89.28 ug/ml



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

R.T.: 18.822 min
Delta R.T.: 0.000 min
Response: 10967237
Conc: 93.49 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.630	4.572	4.692	BV	1313701	12963406	93.80%	5.023%
2	6.309	6.242	6.411	BB	1342183	13608516	98.47%	5.273%
3	7.411	7.362	7.516	BB	1282824	13820236	100.00%	5.355%
4	8.039	7.994	8.111	BV	1147422	11754305	85.05%	4.555%
5	8.719	8.647	8.819	BB	1259569	13570625	98.19%	5.259%
6	8.917	8.874	8.981	BV	747111	8058977	58.31%	3.123%
7	9.020	8.981	9.056	PV	1241449	13512842	97.78%	5.236%
8	9.810	9.749	9.894	BB	1185459	13450975	97.33%	5.212%
9	11.220	11.169	11.256	VV	1101311	13438313	97.24%	5.207%
10	11.297	11.256	11.412	VB	1083190	12723925	92.07%	4.930%
11	11.986	11.921	12.049	BB	1166117	13753707	99.52%	5.329%
12	13.047	13.001	13.132	BB	1034838	13192658	95.46%	5.112%
13	13.348	13.271	13.371	BV	1004023	13029172	94.28%	5.049%
14	15.231	15.159	15.250	BV	779980	12303315	89.02%	4.767%
15	15.280	15.250	15.367	VB	957678	12463435	90.18%	4.830%
16	16.796	16.716	16.812	BV	647217	11802907	85.40%	4.574%
17	16.835	16.812	16.856	VV	817147	10991506	79.53%	4.259%
18	17.181	17.094	17.216	BV	725721	11301951	81.78%	4.379%
19	18.558	18.481	18.572	BV	591631	10849044	78.50%	4.204%
20	18.597	18.572	18.649	VV	699591	10510879	76.05%	4.073%
21	18.822	18.731	18.922	BV	653295	10967237	79.36%	4.250%

Sum of corrected areas: 258067930

Aromatic EPH 092425.M Thu Sep 25 00:47:17 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:20:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 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...	8.034	5654549	47.312 ug/ml
Spiked Amount	50.000		Recovery =	94.62%
6) S	2-Flurobiphenyl (SURR)	8.912	3878601	47.449 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	94.90%
11) S	ortho-Terphenyl (SURR)	11.980	6709235	47.282 ug/ml
Spiked Amount	50.000		Recovery =	94.56%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.627	6249533	47.218 ug/ml
2) T	Naphthalene (C11.7)	6.304	6533060	47.237 ug/ml
3) T	2-Methylnaphthalene (...	7.406	6650030	47.302 ug/ml
5) T	Acenaphthylene (C15.06)	8.712	6564172	47.434 ug/ml
7) T	Acenaphthene (C15.5)	9.013	6513589	47.501 ug/ml
8) T	Flouorene (C16.55)	9.803	6507793	47.214 ug/ml
9) T	Phenanthrene (C19.36)	11.212	6532119	47.356 ug/ml
10) T	Anthracene (C19.43)	11.287	6223741	47.102 ug/ml
12) T	Fluoranthene (C21.85)	13.037	6442747	47.239 ug/ml
13) T	Pyrene (C20.8)	13.337	6369315	47.402 ug/ml
14) T	Benzo[a]anthracene (C...	15.221	6018657	47.238 ug/ml
15) T	Chrysene (C27.41)	15.266	6125610	47.085 ug/ml
16) T	benzo[b]fluoranthene ...	16.783	5795694	47.148 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.819	5445729	47.102 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.166	5558378	47.084 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.542	5087687	46.887 ug/ml
20) T	Dibenz[a,h]anthracene...	18.582	5425328	46.992 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.802	5351044	46.989 ug/ml

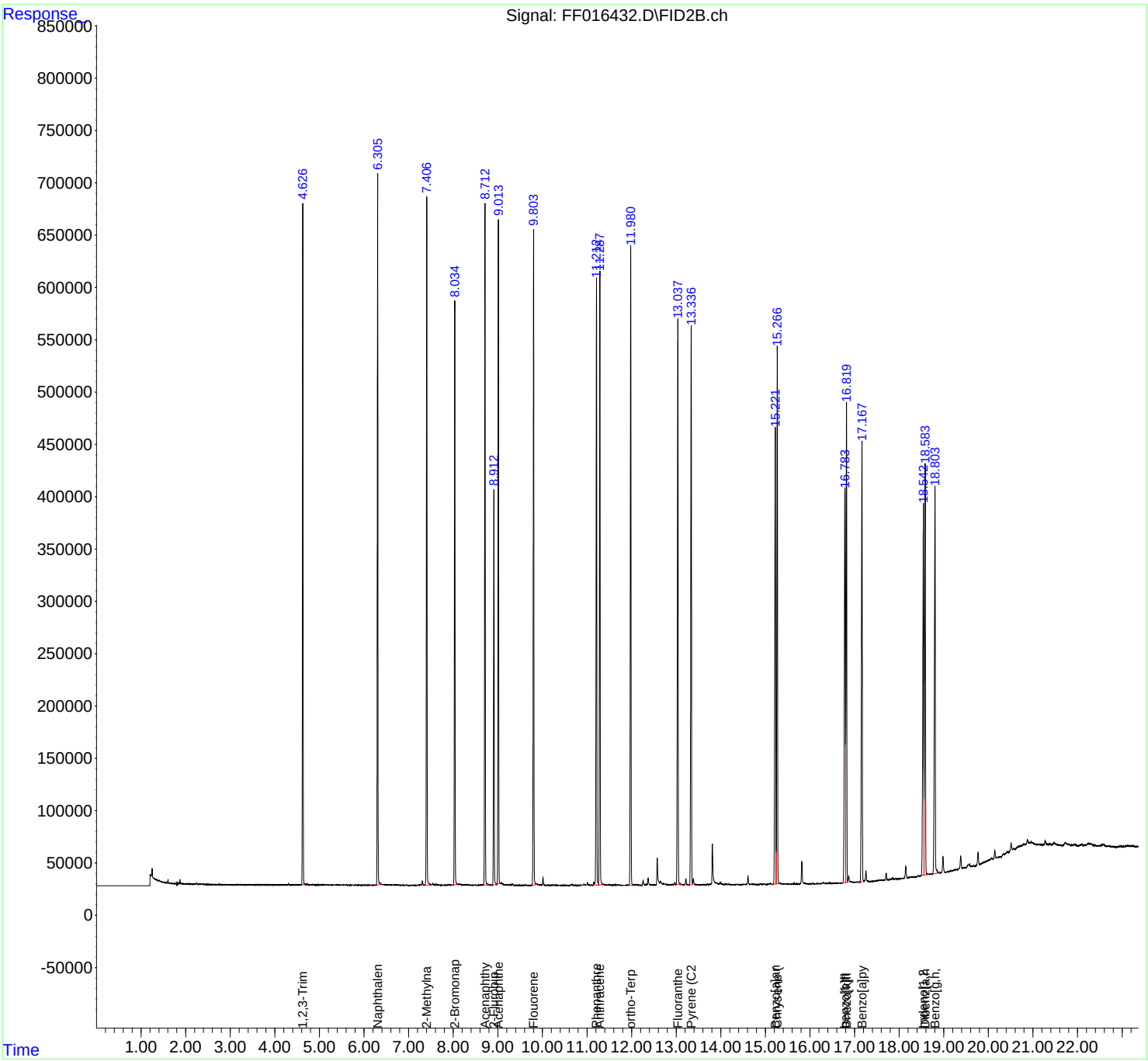
(f)=RT Delta > 1/2 Window (m)=manual int.

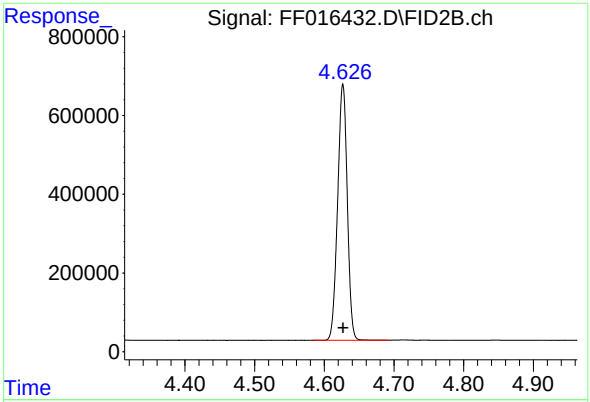
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:20:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

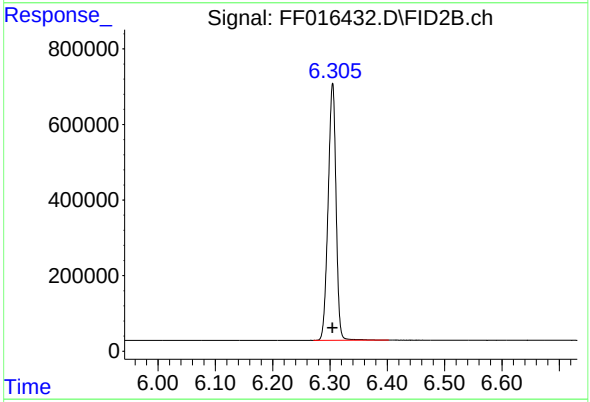




#1 1,2,3-Trimethylbenzene (C10.1)

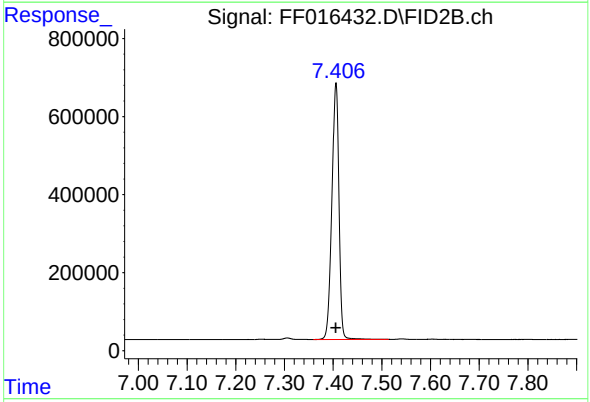
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 6249533
Conc: 47.22 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



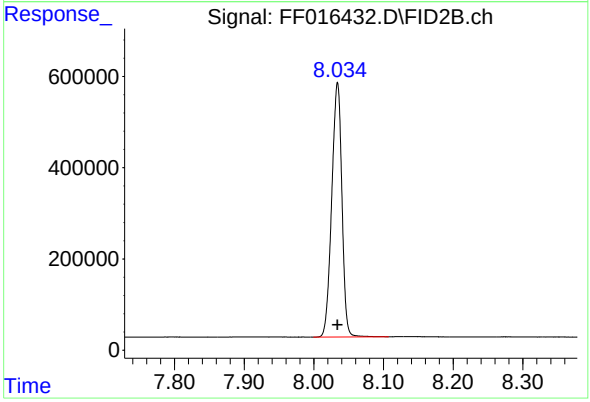
#2 Naphthalene (C11.7)

R.T.: 6.304 min
Delta R.T.: 0.000 min
Response: 6533060
Conc: 47.24 ug/ml



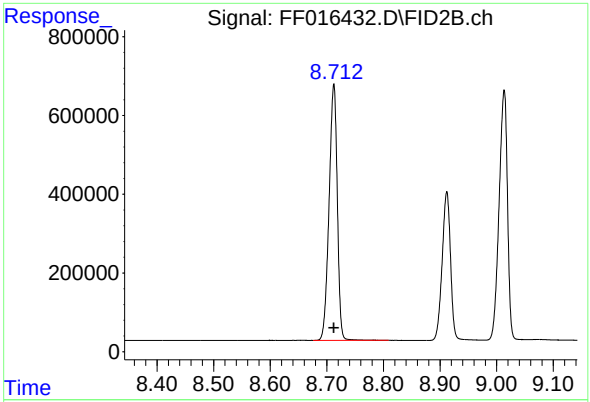
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.406 min
Delta R.T.: 0.000 min
Response: 6650030
Conc: 47.30 ug/ml



#4 2-Bromonaphthalene (SURR)

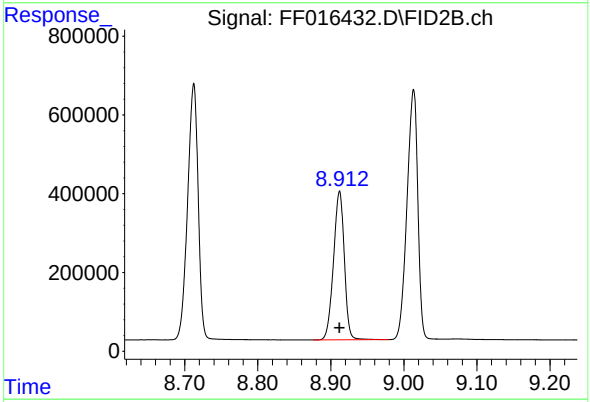
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 5654549
Conc: 47.31 ug/ml



#5 Acenaphthylene (C15.06)

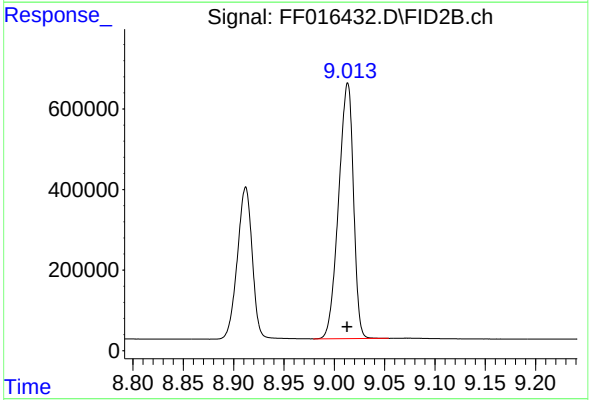
R.T.: 8.712 min
Delta R.T.: 0.000 min
Response: 6564172
Conc: 47.43 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



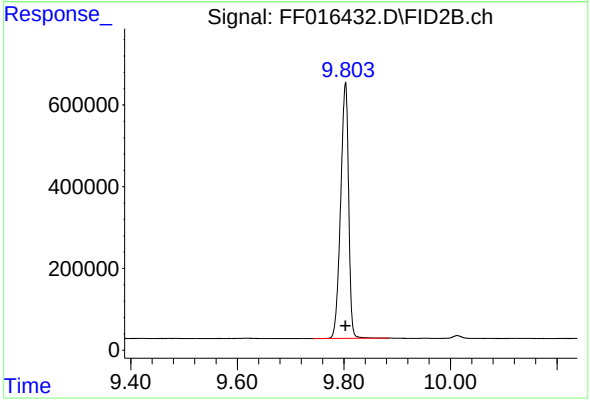
#6 2-Flurobiphenyl (SURR)

R.T.: 8.912 min
Delta R.T.: 0.000 min
Response: 3878601
Conc: 47.45 ug/ml



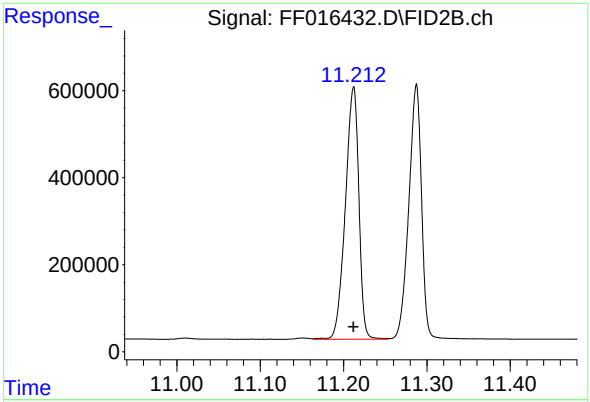
#7 Acenaphthene (C15.5)

R.T.: 9.013 min
Delta R.T.: 0.000 min
Response: 6513589
Conc: 47.50 ug/ml



#8 Flouorene (C16.55)

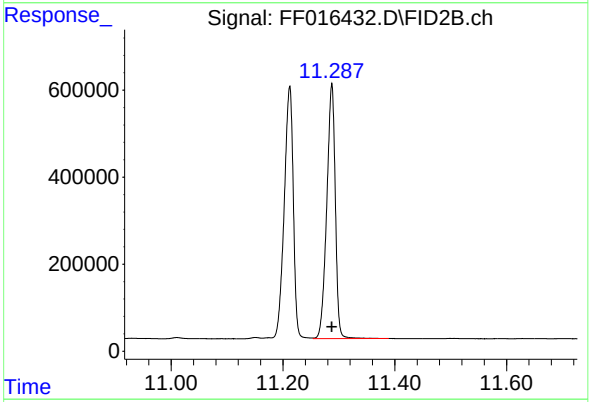
R.T.: 9.803 min
Delta R.T.: 0.000 min
Response: 6507793
Conc: 47.21 ug/ml



#9 Phenanthrene (C19.36)

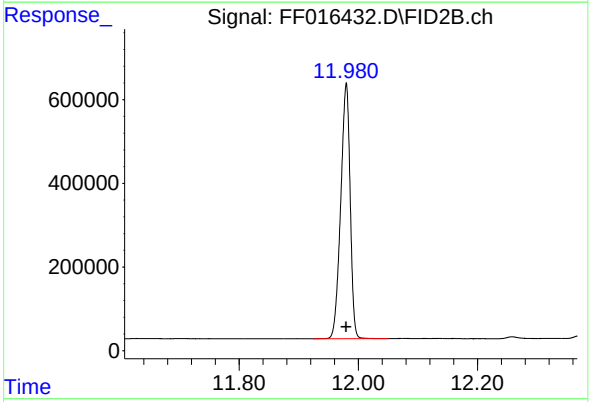
R.T.: 11.212 min
Delta R.T.: 0.000 min
Response: 6532119
Conc: 47.36 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



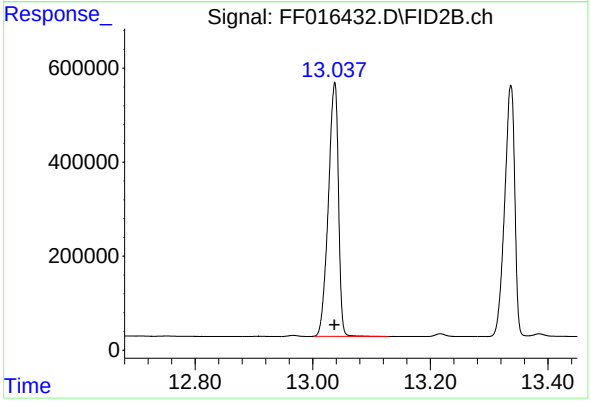
#10 Anthracene (C19.43)

R.T.: 11.287 min
Delta R.T.: 0.000 min
Response: 6223741
Conc: 47.10 ug/ml



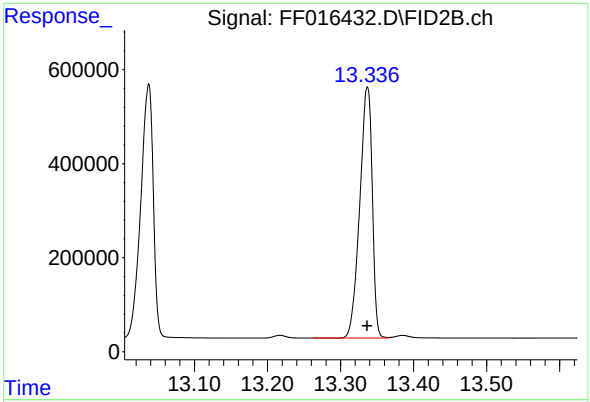
#11 ortho-Terphenyl (SURR)

R.T.: 11.980 min
Delta R.T.: 0.000 min
Response: 6709235
Conc: 47.28 ug/ml



#12 Fluoranthene (C21.85)

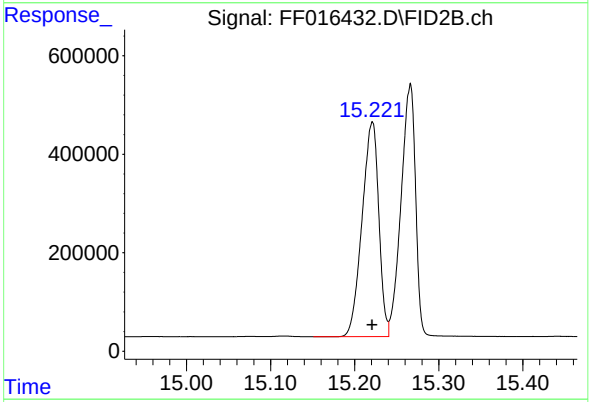
R.T.: 13.037 min
Delta R.T.: 0.000 min
Response: 6442747
Conc: 47.24 ug/ml



#13 Pyrene (C20.8)

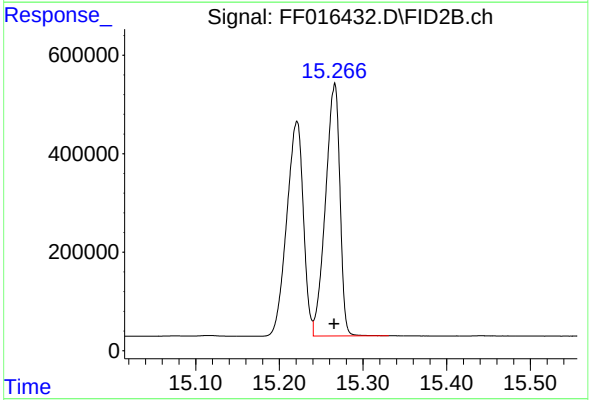
R.T.: 13.337 min
Delta R.T.: 0.000 min
Response: 6369315
Conc: 47.40 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



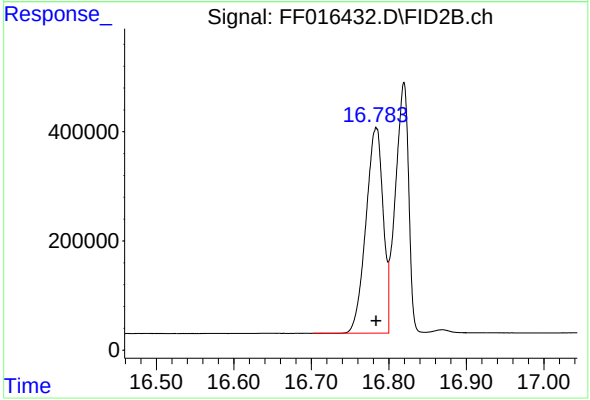
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.221 min
Delta R.T.: 0.000 min
Response: 6018657
Conc: 47.24 ug/ml



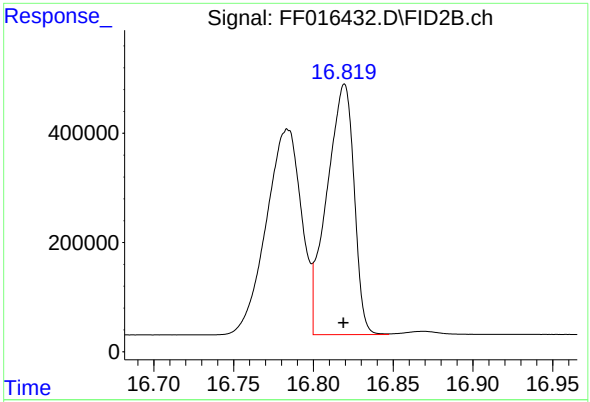
#15 Chrysene (C27.41)

R.T.: 15.266 min
Delta R.T.: 0.000 min
Response: 6125610
Conc: 47.09 ug/ml



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

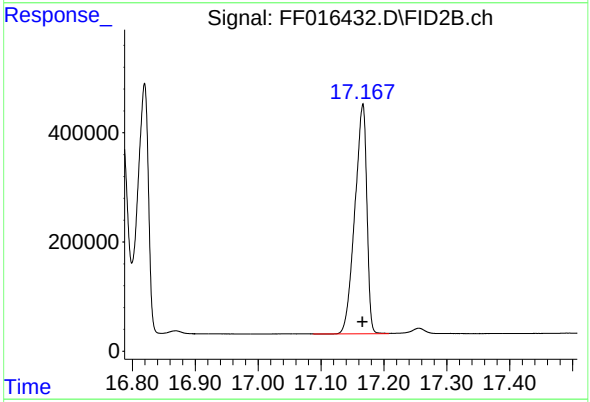
R.T.: 16.783 min
Delta R.T.: 0.000 min
Response: 5795694
Conc: 47.15 ug/ml



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

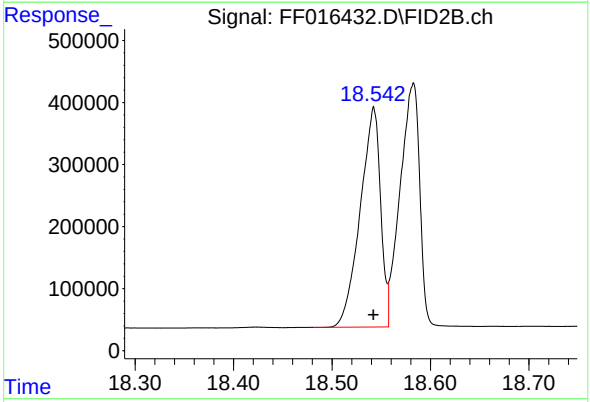
R.T.: 16.819 min
Delta R.T.: 0.000 min
Response: 5445729
Conc: 47.10 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



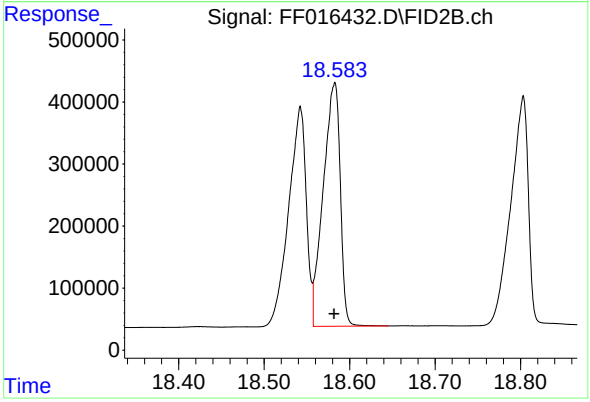
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.166 min
Delta R.T.: 0.000 min
Response: 5558378
Conc: 47.08 ug/ml



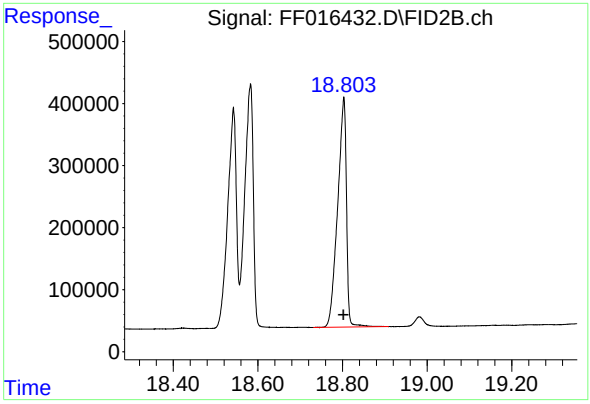
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.542 min
Delta R.T.: 0.000 min
Response: 5087687
Conc: 46.89 ug/ml



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

R.T.: 18.582 min
Delta R.T.: 0.000 min
Response: 5425328
Conc: 46.99 ug/ml



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

R.T.: 18.802 min
Delta R.T.: 0.000 min
Response: 5351044
Conc: 46.99 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.627	4.584	4.692	BB	651647	6249533	93.15%	4.974%
2	6.304	6.271	6.402	BB	680296	6533060	97.37%	5.200%
3	7.406	7.359	7.514	BB	658661	6650030	99.12%	5.293%
4	8.034	7.999	8.107	BV	559602	5654549	84.28%	4.501%
5	8.712	8.676	8.809	BB	652555	6564172	97.84%	5.225%
6	8.912	8.876	8.979	BV	379317	3878601	57.81%	3.087%
7	9.013	8.979	9.054	PV	633241	6513589	97.08%	5.184%
8	9.803	9.742	9.884	BB	623665	6507793	97.00%	5.180%
9	11.212	11.164	11.254	VV	583678	6532119	97.36%	5.199%
10	11.287	11.254	11.389	VB	587179	6223741	92.76%	4.954%
11	11.980	11.924	12.051	BV	608338	6709235	100.00%	5.340%
12	13.037	13.001	13.129	BB	542872	6442747	96.03%	5.128%
13	13.337	13.262	13.366	BV	535712	6369315	94.93%	5.070%
14	15.221	15.151	15.241	BV	436284	6018657	89.71%	4.791%
15	15.266	15.241	15.331	VB	510620	6125610	91.30%	4.876%
16	16.783	16.702	16.800	BV	376389	5795694	86.38%	4.613%
17	16.819	16.800	16.847	VV	459725	5445729	81.17%	4.335%
18	17.166	17.087	17.207	BV	418349	5558378	82.85%	4.424%
19	18.542	18.481	18.557	BV	355784	5087687	75.83%	4.050%
20	18.582	18.557	18.646	VB	392603	5425328	80.86%	4.318%
21	18.802	18.731	18.909	BB	367802	5351044	79.76%	4.259%

Sum of corrected areas: 125636611

Aromatic EPH 092425.M Thu Sep 25 00:48:32 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 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...	8.031	2558337	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.909	1741301	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.976	3079552	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.625	2848825	20.000 ug/ml
2) T	Naphthalene (C11.7)	6.302	2963269	20.000 ug/ml
3) T	2-Methylnaphthalene (...	7.402	3011112	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.708	2963322	20.000 ug/ml
7) T	Acenaphthene (C15.5)	9.008	2919556	20.000 ug/ml
8) T	Flouorene (C16.55)	9.798	2976884	20.000 ug/ml
9) T	Phenanthrene (C19.36)	11.207	2975729	20.000 ug/ml
10) T	Anthracene (C19.43)	11.283	2893687	20.000 ug/ml
12) T	Fluoranthene (C21.85)	13.032	2967546	20.000 ug/ml
13) T	Pyrene (C20.8)	13.331	2908519	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	15.215	2776618	20.000 ug/ml
15) T	Chrysene (C27.41)	15.257	2862862	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	16.777	2696749	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.809	2560301	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.157	2599389	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.533	2305647	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	18.572	2654779	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.789	2498798	20.000 ug/ml

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

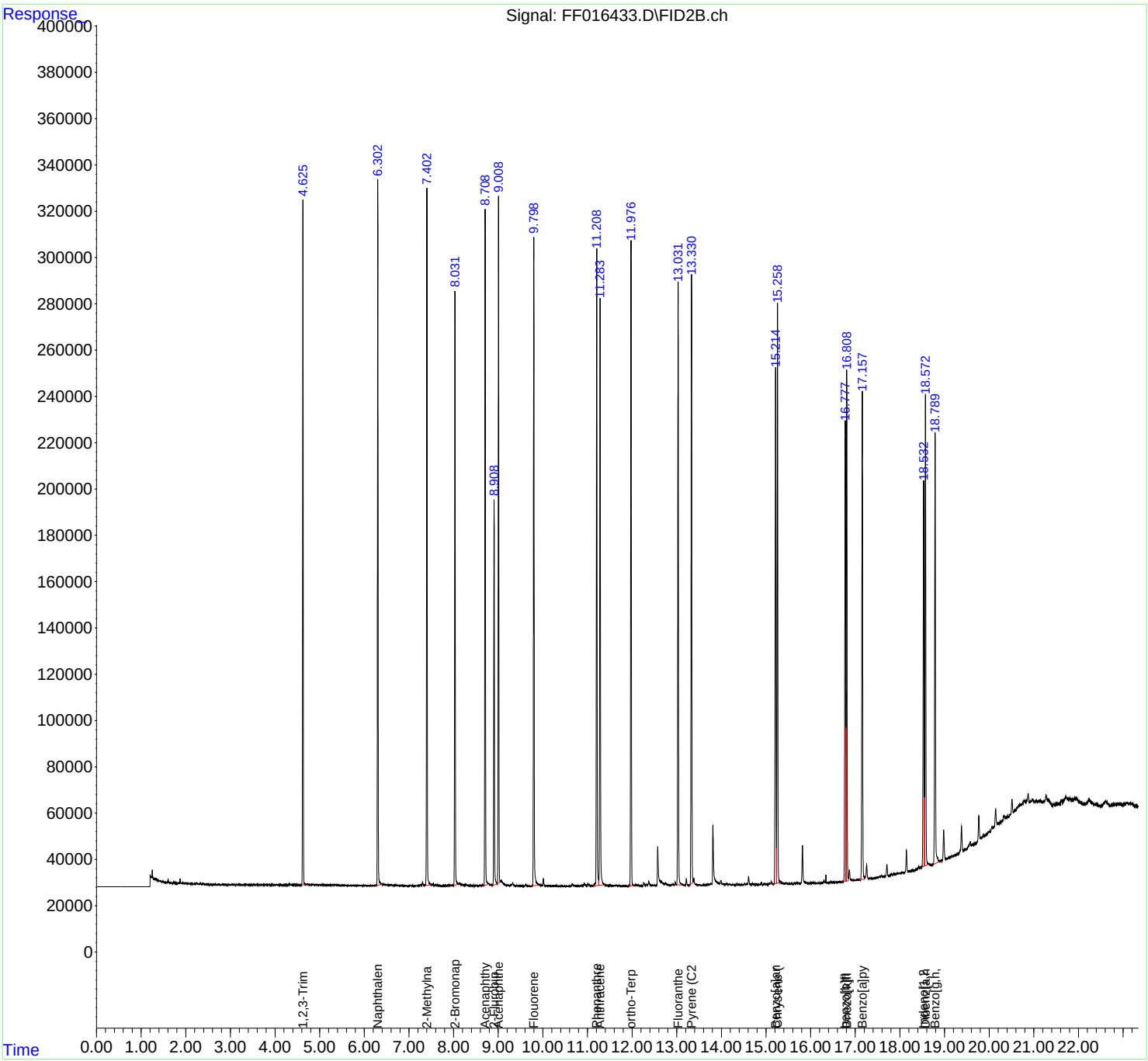
Quantitation Report (QT Reviewed)

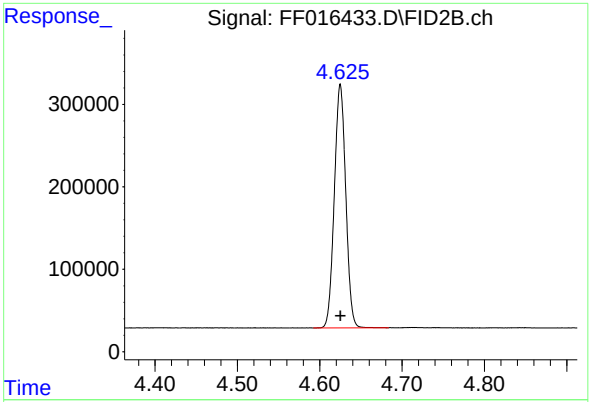
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:16:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:16:11 2025
Response via : Initial Calibration
Integrator: ChemStation

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

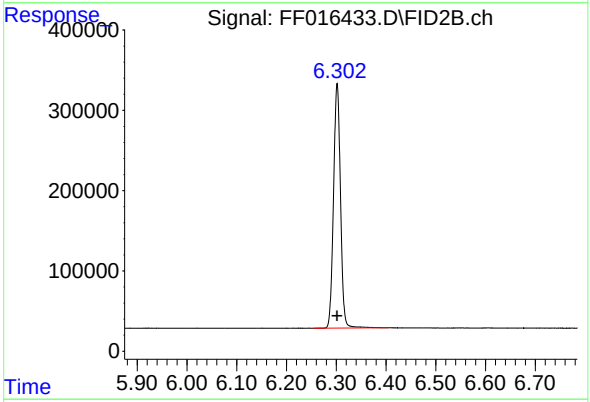




#1 1,2,3-Trimethylbenzene (C10.1)

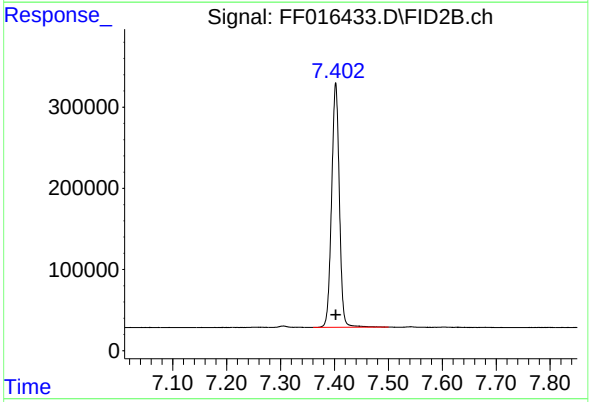
R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 2848825
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



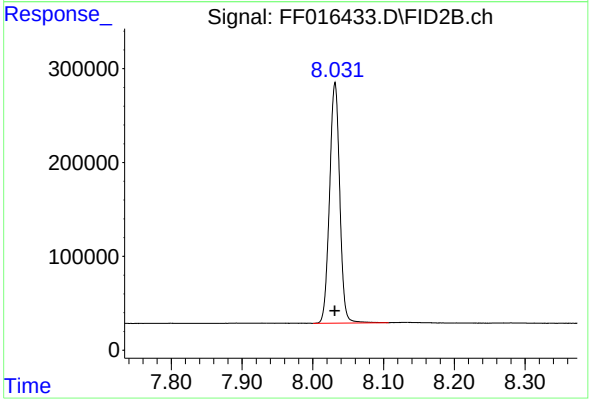
#2 Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 2963269
Conc: 20.00 ug/ml



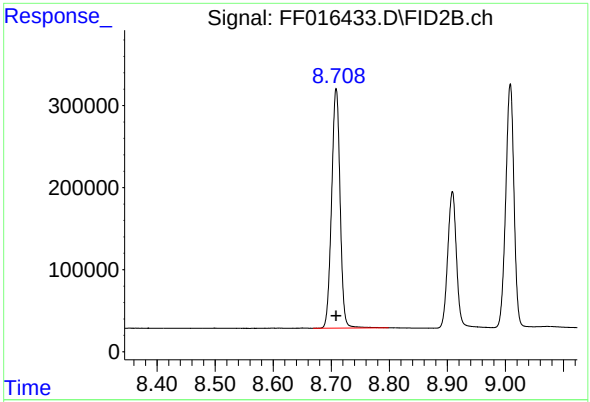
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 3011112
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

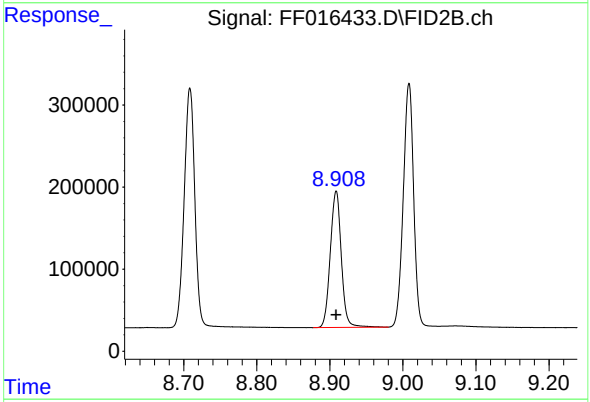
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 2558337
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

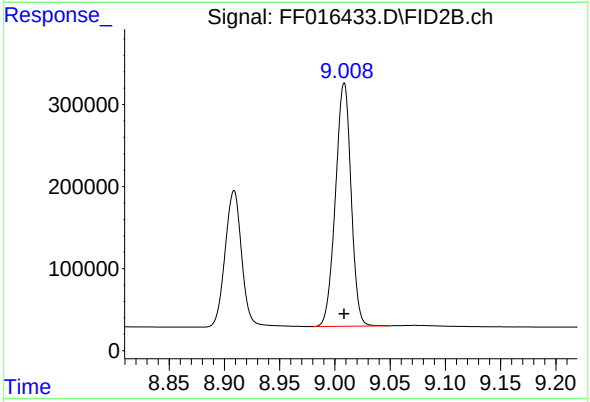
R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 2963322
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



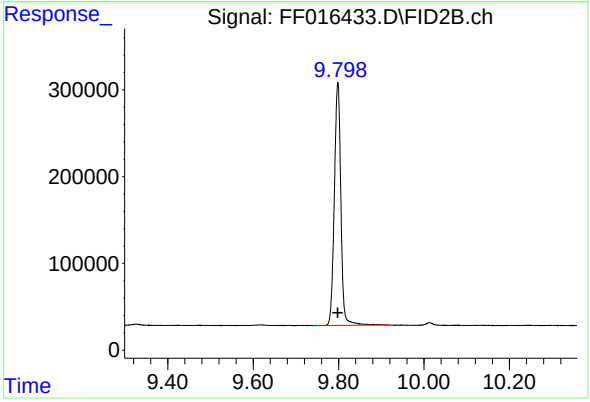
#6 2-Flurobiphenyl (SURR)

R.T.: 8.909 min
Delta R.T.: 0.000 min
Response: 1741301
Conc: 20.00 ug/ml



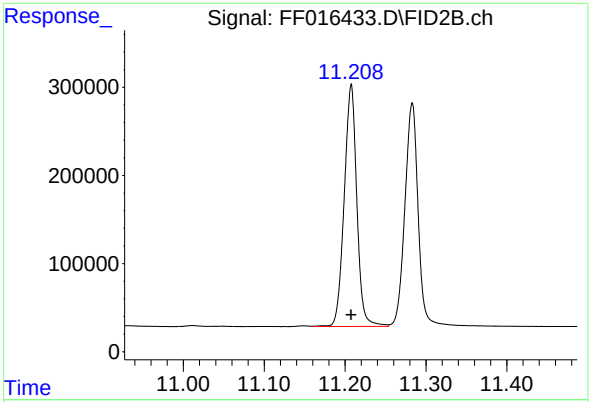
#7 Acenaphthene (C15.5)

R.T.: 9.008 min
Delta R.T.: 0.000 min
Response: 2919556
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

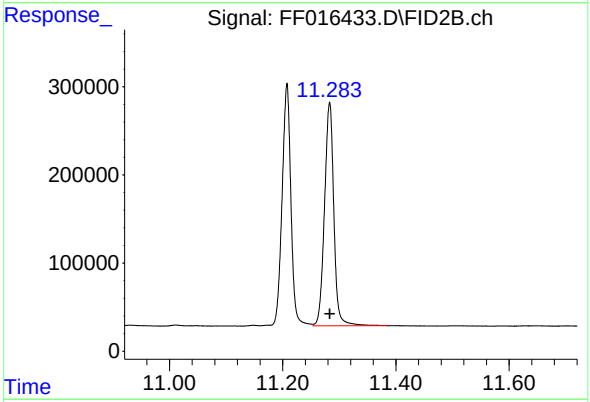
R.T.: 9.798 min
Delta R.T.: 0.000 min
Response: 2976884
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

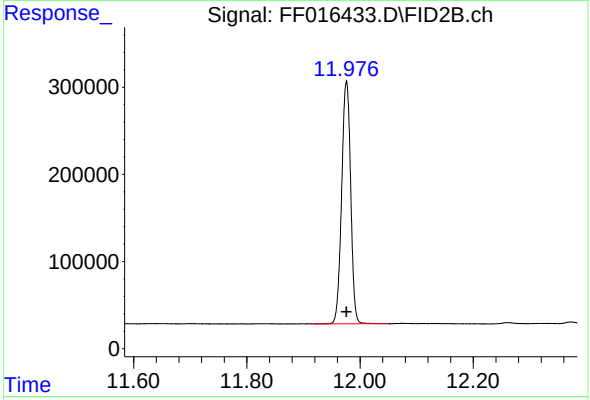
R.T.: 11.207 min
Delta R.T.: 0.000 min
Response: 2975729
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



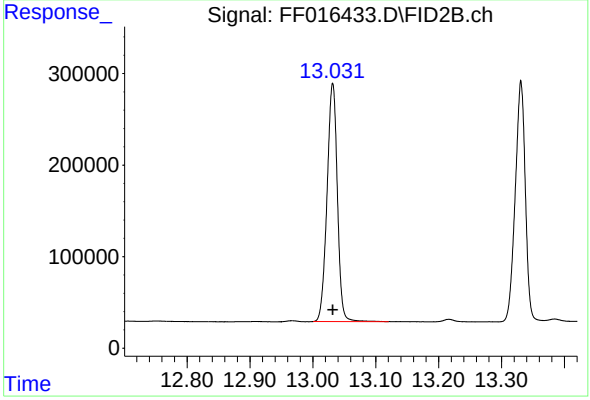
#10 Anthracene (C19.43)

R.T.: 11.283 min
Delta R.T.: 0.000 min
Response: 2893687
Conc: 20.00 ug/ml



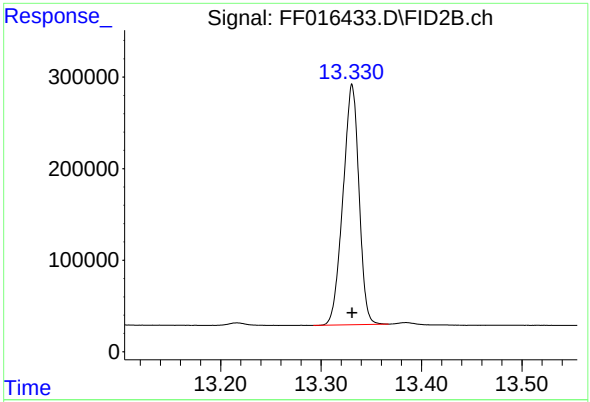
#11 ortho-Terphenyl (SURR)

R.T.: 11.976 min
Delta R.T.: 0.000 min
Response: 3079552
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

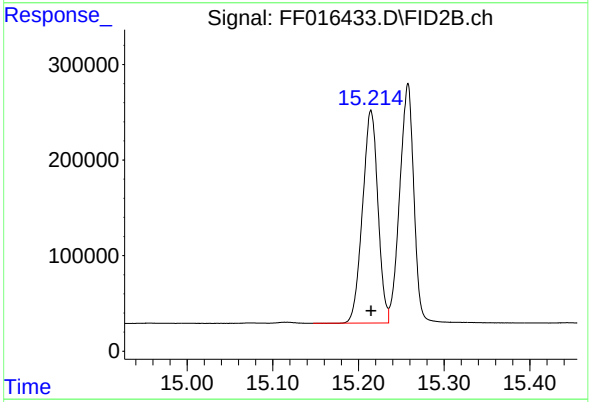
R.T.: 13.032 min
Delta R.T.: 0.000 min
Response: 2967546
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

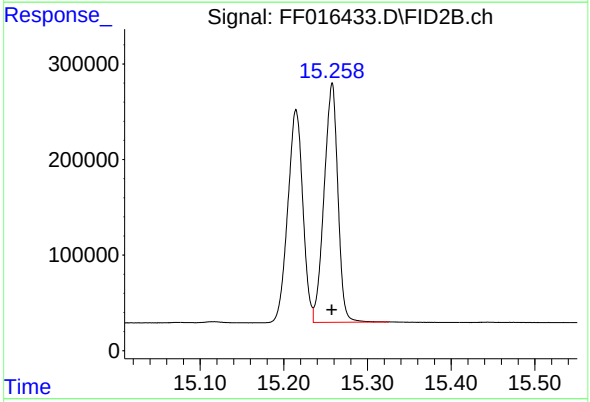
R.T.: 13.331 min
Delta R.T.: 0.000 min
Response: 2908519
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



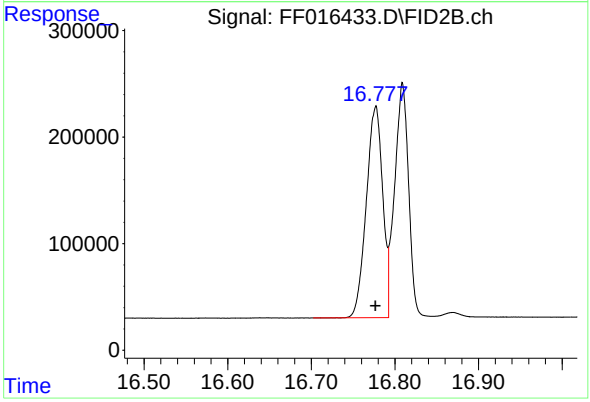
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.215 min
Delta R.T.: 0.000 min
Response: 2776618
Conc: 20.00 ug/ml



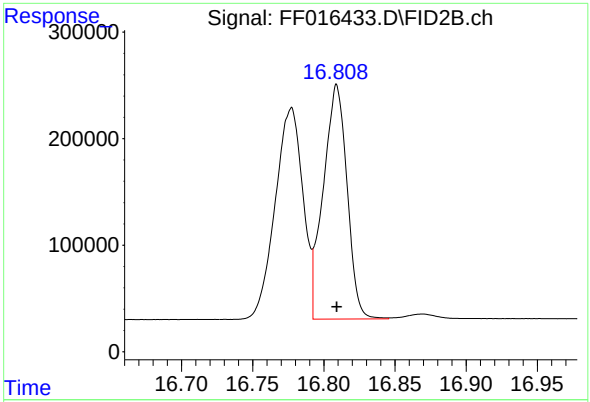
#15 Chrysene (C27.41)

R.T.: 15.257 min
Delta R.T.: 0.000 min
Response: 2862862
Conc: 20.00 ug/ml



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

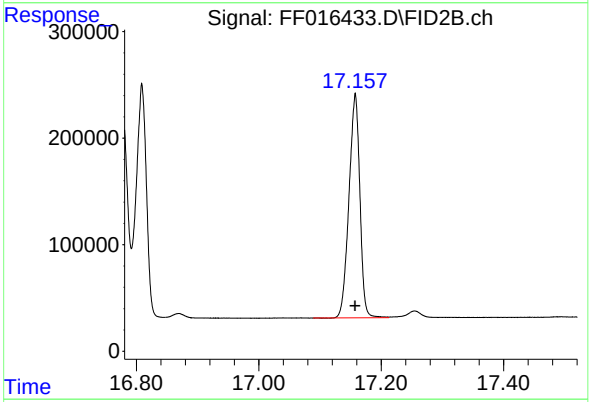
R.T.: 16.777 min
Delta R.T.: 0.000 min
Response: 2696749
Conc: 20.00 ug/ml



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

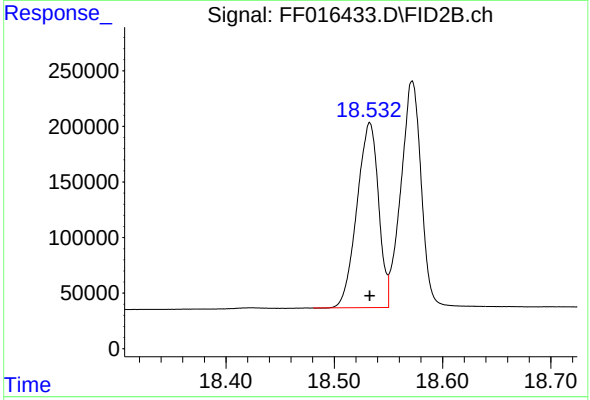
R.T.: 16.809 min
Delta R.T.: 0.000 min
Response: 2560301
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



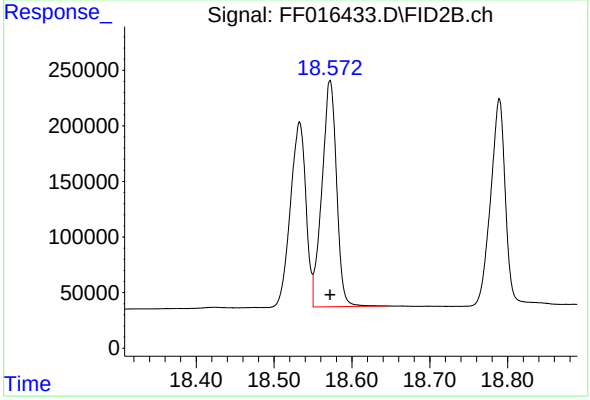
#18 Benzo[a]pyrenе (C31.34)

R.T.: 17.157 min
Delta R.T.: 0.000 min
Response: 2599389
Conc: 20.00 ug/ml



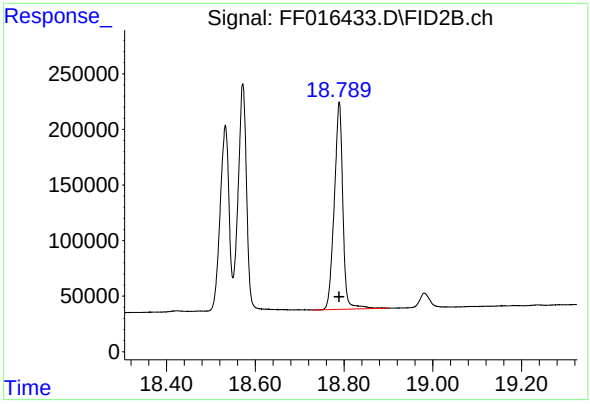
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.533 min
Delta R.T.: 0.000 min
Response: 2305647
Conc: 20.00 ug/ml



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

R.T.: 18.572 min
Delta R.T.: 0.000 min
Response: 2654779
Conc: 20.00 ug/ml



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

R.T.: 18.789 min
Delta R.T.: 0.000 min
Response: 2498798
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.625	4.592	4.684	BB	295387	2848825	92.51%	4.932%
2	6.302	6.254	6.405	BB	304676	2963269	96.22%	5.130%
3	7.402	7.360	7.500	BB	300976	3011112	97.78%	5.213%
4	8.031	8.000	8.107	BB	257165	2558337	83.07%	4.429%
5	8.708	8.669	8.799	BB	292176	2963322	96.23%	5.130%
6	8.909	8.877	8.980	BV	166755	1741301	56.54%	3.015%
7	9.008	8.980	9.049	PV	297457	2919556	94.80%	5.054%
8	9.798	9.740	9.917	BB	281199	2976884	96.67%	5.154%
9	11.207	11.160	11.254	VV	274391	2975729	96.63%	5.152%
10	11.283	11.254	11.387	VB	252595	2893687	93.96%	5.010%
11	11.976	11.917	12.050	BB	277607	3079552	100.00%	5.331%
12	13.032	13.000	13.120	BB	261027	2967546	96.36%	5.137%
13	13.331	13.292	13.367	BV	262989	2908519	94.45%	5.035%
14	15.215	15.147	15.235	BV	222104	2776618	90.16%	4.807%
15	15.257	15.235	15.325	VB	250097	2862862	92.96%	4.956%
16	16.777	16.702	16.792	BV	198692	2696749	87.57%	4.669%
17	16.809	16.792	16.845	VV	220665	2560301	83.14%	4.432%
18	17.157	17.089	17.212	BV	209878	2599389	84.41%	4.500%
19	18.533	18.480	18.550	BV	166491	2305647	74.87%	3.992%
20	18.572	18.550	18.647	VB	203361	2654779	86.21%	4.596%
21	18.789	18.730	18.900	BB	186301	2498798	81.14%	4.326%
			Sum of corrected areas:			57762783		

Aromatic EPH 092425.M Thu Sep 25 00:49:09 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 16:21:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:21:45 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...	8.031	1481517	11.695 ug/ml
Spiked Amount	50.000		Recovery =	23.39%
6) S	2-Flurobiphenyl (SURR)	8.907	988395	11.491 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	22.98%
11) S	ortho-Terphenyl (SURR)	11.974	1809727	11.932 ug/ml
Spiked Amount	50.000		Recovery =	23.86%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.627	1662196	11.804 ug/ml
2) T	Naphthalene (C11.7)	6.302	1716476	11.705 ug/ml
3) T	2-Methylnaphthalene (...	7.402	1742677	11.695 ug/ml
5) T	Acenaphthylene (C15.06)	8.707	1714200	11.690 ug/ml
7) T	Acenaphthene (C15.5)	9.007	1683417	11.615 ug/ml
8) T	Flouorene (C16.55)	9.796	1736875	11.832 ug/ml
9) T	Phenanthrene (C19.36)	11.204	1732603	11.805 ug/ml
10) T	Anthracene (C19.43)	11.280	1733091	12.168 ug/ml
12) T	Fluoranthene (C21.85)	13.029	1749056	11.979 ug/ml
13) T	Pyrene (C20.8)	13.328	1709506	11.912 ug/ml
14) T	Benzo[a]anthracene (C...	15.211	1649438	12.058 ug/ml
15) T	Chrysene (C27.41)	15.254	1745210	12.360 ug/ml
16) T	benzo[b]fluoranthene ...	16.773	1594531	12.074 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.804	1540396	12.301 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.153	1570961	12.291 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.528	1351251	11.733 ug/ml
20) T	Dibenz[a,h]anthracene...	18.568	1619900	12.746 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.783	1490189	12.149 ug/ml

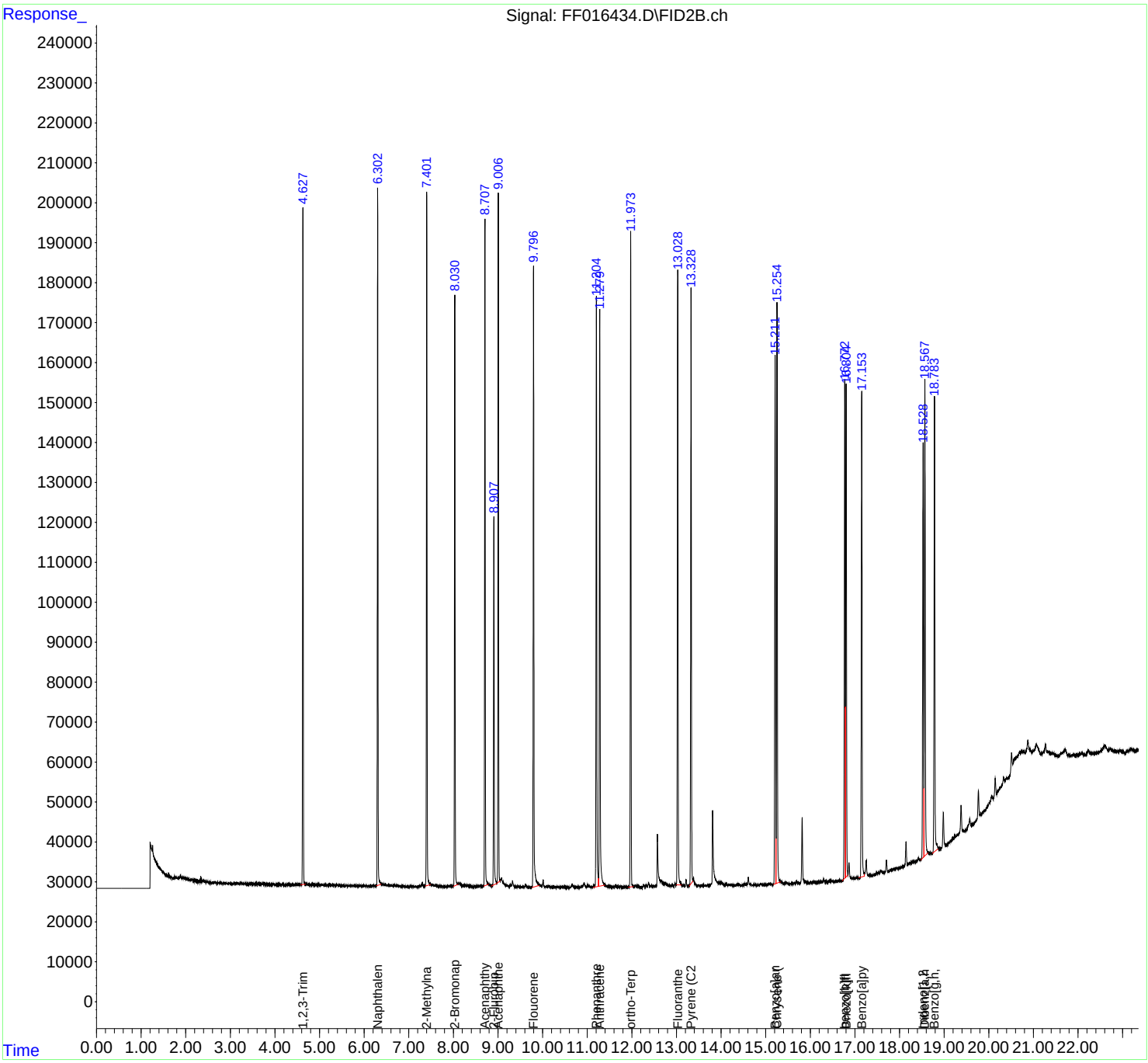
(f)=RT Delta > 1/2 Window (m)=manual int.

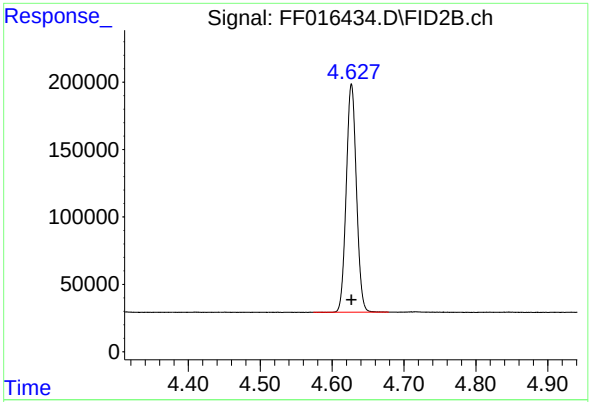
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 16:21:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:21:45 2025
Response via : Initial Calibration
Integrator: ChemStation

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

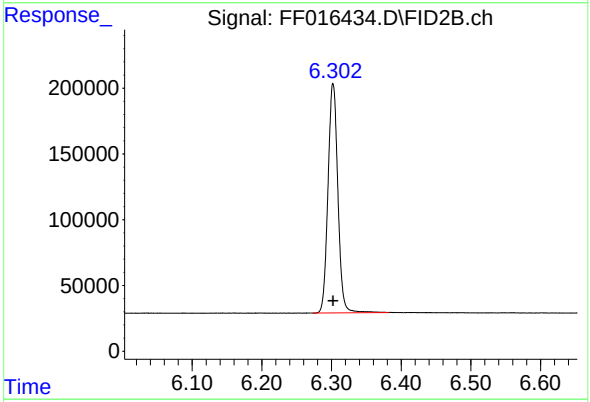




#1 1,2,3-Trimethylbenzene (C10.1)

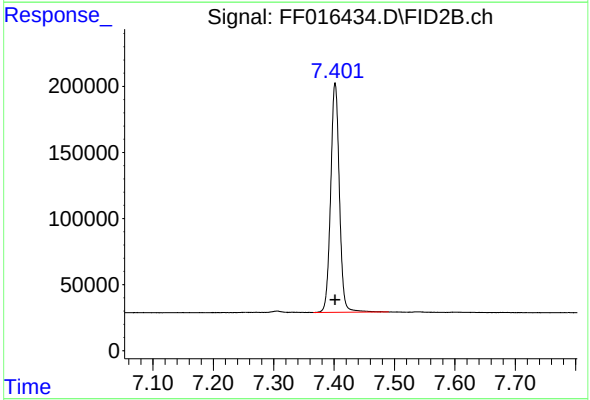
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 1662196
Conc: 11.80 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



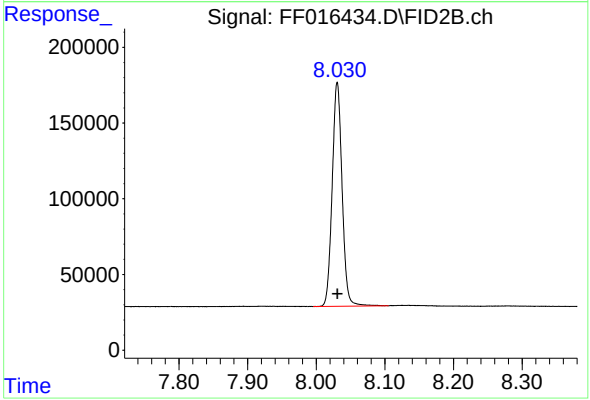
#2 Naphthalene (C11.7)

R.T.: 6.302 min
Delta R.T.: 0.000 min
Response: 1716476
Conc: 11.71 ug/ml



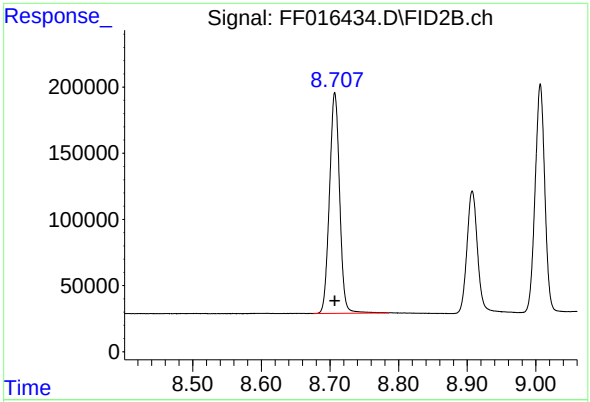
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 1742677
Conc: 11.70 ug/ml



#4 2-Bromonaphthalene (SURR)

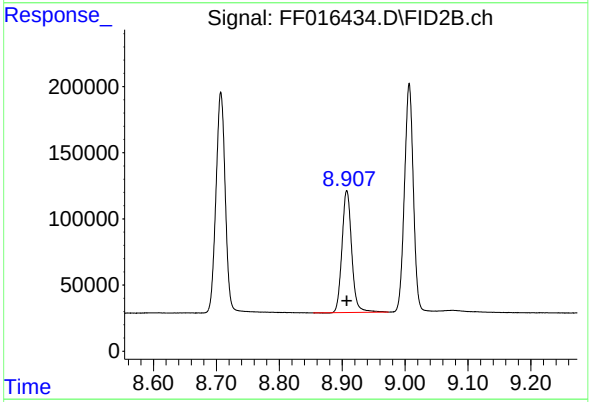
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 1481517
Conc: 11.70 ug/ml



#5 Acenaphthylene (C15.06)

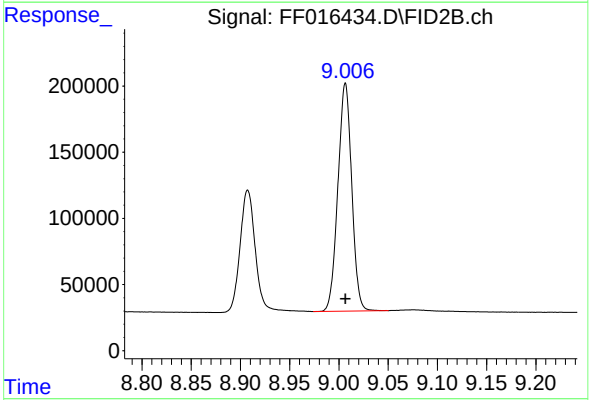
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 1714200
Conc: 11.69 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



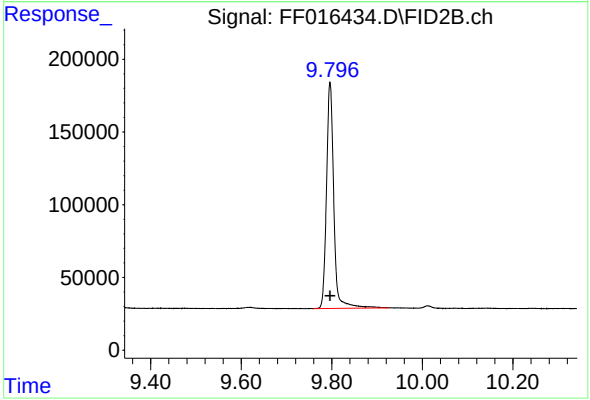
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 988395
Conc: 11.49 ug/ml



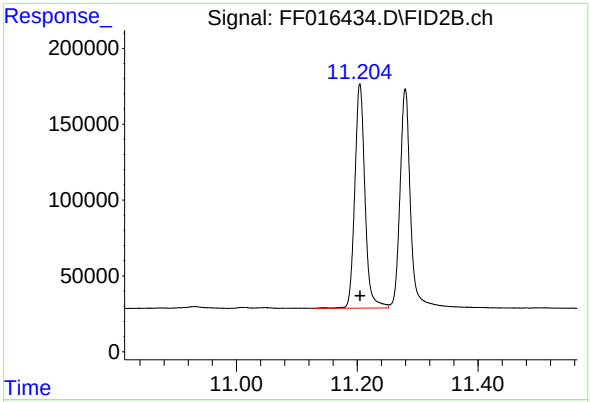
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 1683417
Conc: 11.62 ug/ml



#8 Flouorene (C16.55)

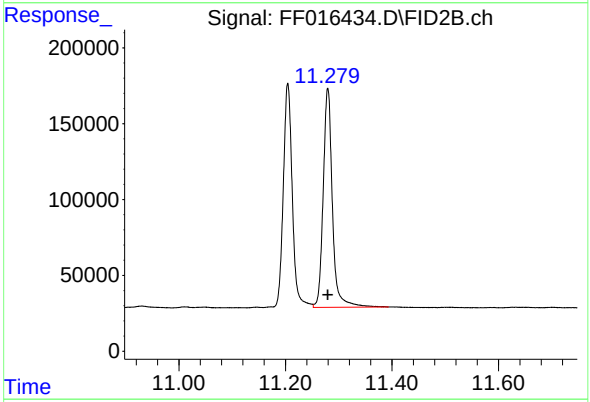
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 1736875
Conc: 11.83 ug/ml



#9 Phenanthrene (C19.36)

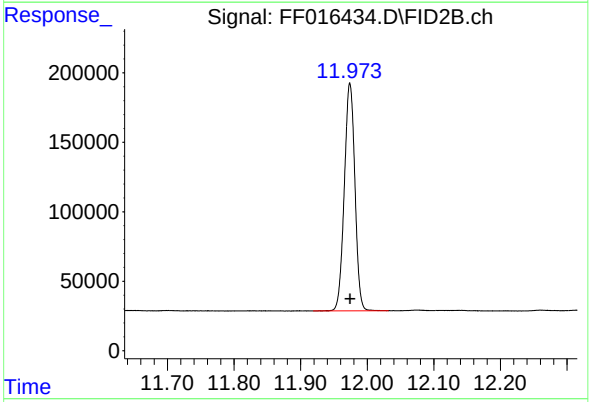
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1732603
Conc: 11.81 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



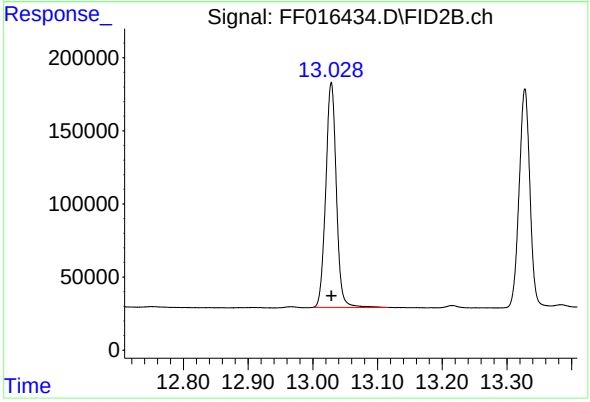
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.000 min
Response: 1733091
Conc: 12.17 ug/ml



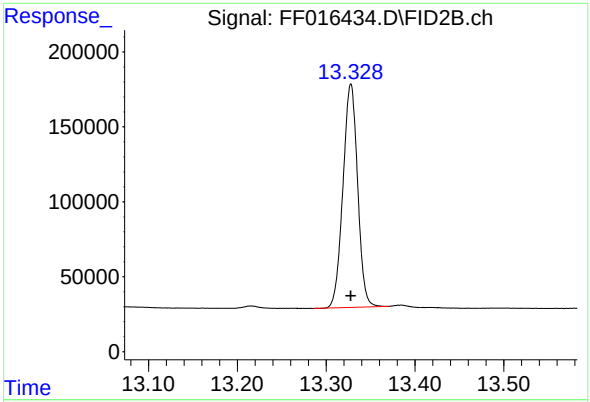
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 1809727
Conc: 11.93 ug/ml



#12 Fluoranthene (C21.85)

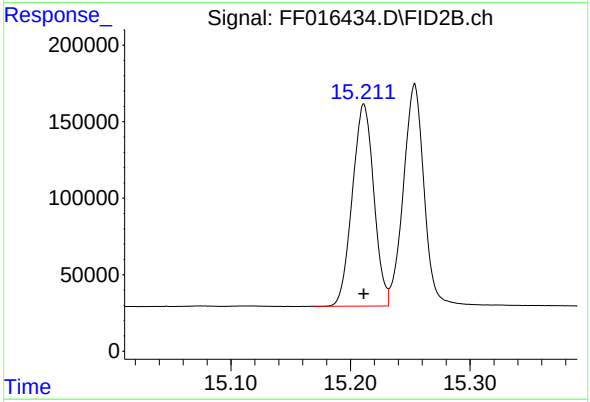
R.T.: 13.029 min
Delta R.T.: 0.000 min
Response: 1749056
Conc: 11.98 ug/ml



#13 Pyrene (C20.8)

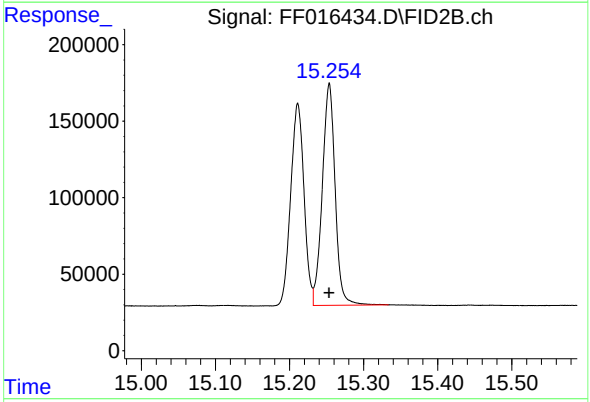
R.T.: 13.328 min
Delta R.T.: 0.000 min
Response: 1709506
Conc: 11.91 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



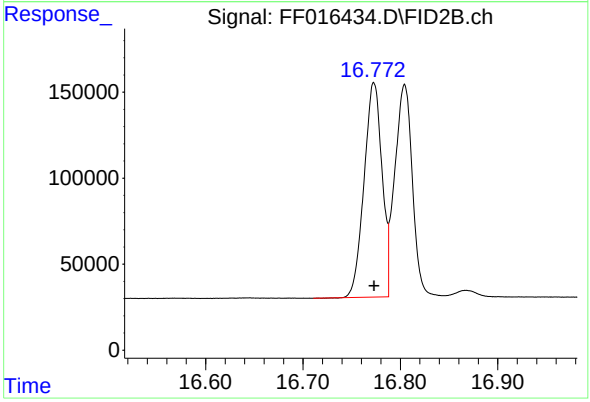
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.211 min
Delta R.T.: 0.000 min
Response: 1649438
Conc: 12.06 ug/ml



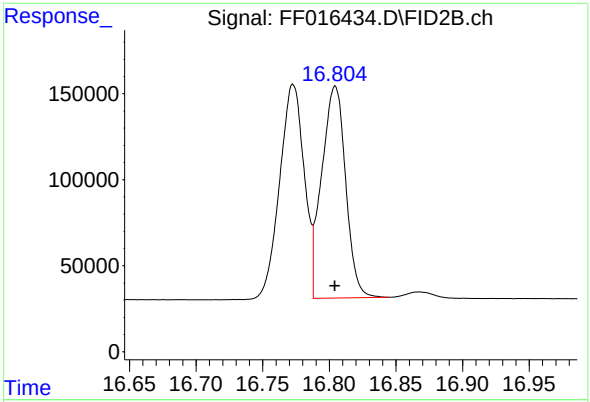
#15 Chrysene (C27.41)

R.T.: 15.254 min
Delta R.T.: 0.000 min
Response: 1745210
Conc: 12.36 ug/ml



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

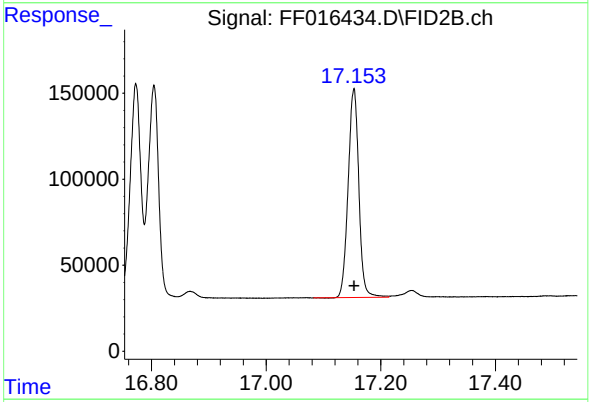
R.T.: 16.773 min
Delta R.T.: 0.000 min
Response: 1594531
Conc: 12.07 ug/ml



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

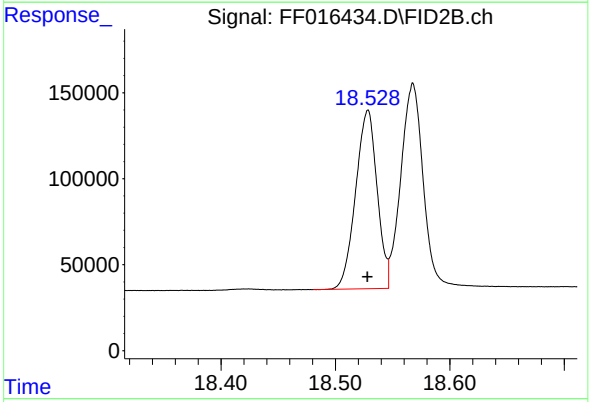
R.T.: 16.804 min
Delta R.T.: 0.000 min
Response: 1540396
Conc: 12.30 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



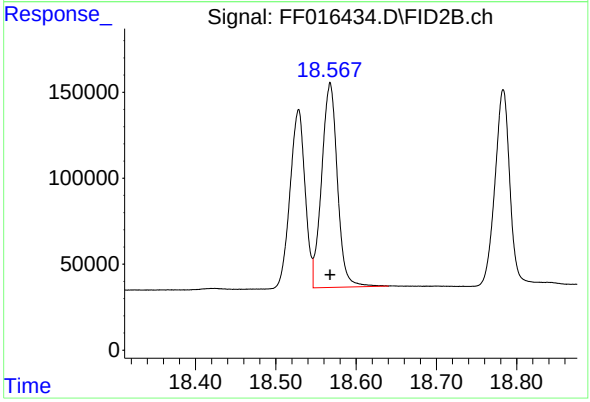
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.153 min
Delta R.T.: 0.000 min
Response: 1570961
Conc: 12.29 ug/ml



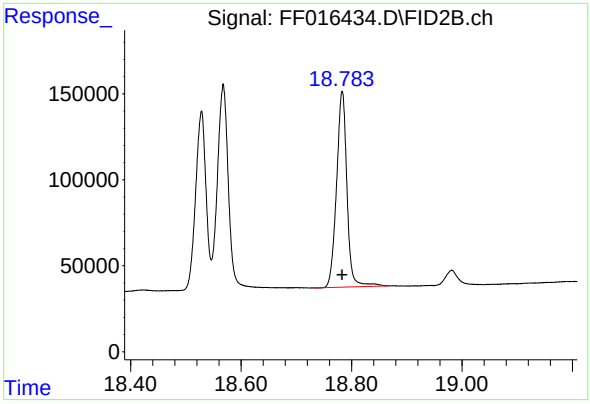
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.528 min
Delta R.T.: 0.000 min
Response: 1351251
Conc: 11.73 ug/ml



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

R.T.: 18.568 min
Delta R.T.: 0.000 min
Response: 1619900
Conc: 12.75 ug/ml



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

R.T.: 18.783 min
Delta R.T.: 0.000 min
Response: 1490189
Conc: 12.15 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016434.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:28
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.627	4.574	4.679	BB	169350	1662196	91.85%	4.886%
2	6.302	6.274	6.382	BB	174721	1716476	94.85%	5.045%
3	7.402	7.365	7.490	BB	173280	1742677	96.30%	5.122%
4	8.031	7.995	8.105	BB	147868	1481517	81.86%	4.355%
5	8.707	8.675	8.785	BB	166757	1714200	94.72%	5.039%
6	8.907	8.854	8.974	BV	92086	988395	54.62%	2.905%
7	9.007	8.974	9.050	PV	172736	1683417	93.02%	4.948%
8	9.796	9.759	9.925	BB	154714	1736875	95.97%	5.105%
9	11.205	11.127	11.252	BV	147894	1732603	95.74%	5.093%
10	11.280	11.252	11.394	VB	144671	1733091	95.77%	5.094%
11	11.974	11.919	12.032	BB	163952	1809727	100.00%	5.319%
12	13.029	13.000	13.117	BB	153881	1749056	96.65%	5.141%
13	13.328	13.285	13.370	BV	149122	1709506	94.46%	5.025%
14	15.211	15.169	15.232	BV	132251	1649438	91.14%	4.848%
15	15.254	15.232	15.334	VB	145331	1745210	96.44%	5.130%
16	16.773	16.710	16.788	BV	124790	1594531	88.11%	4.687%
17	16.804	16.788	16.845	VV	123152	1540396	85.12%	4.528%
18	17.153	17.082	17.214	BV	122252	1570961	86.81%	4.618%
19	18.528	18.480	18.546	BV	104420	1351251	74.67%	3.972%
20	18.568	18.546	18.640	VB	118899	1619900	89.51%	4.761%
21	18.783	18.730	18.867	BB	114223	1490189	82.34%	4.380%
			Sum of corrected areas:			34021608		

Aromatic EPH 092425.M Thu Sep 25 00:49:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:24:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:23:45 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...	8.031	598161	4.775 ug/ml
Spiked Amount	50.000		Recovery =	9.55%
6) S	2-Flurobiphenyl (SURR)	8.908	388157	4.602 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	9.20%
11) S	ortho-Terphenyl (SURR)	11.974	777849	5.102 ug/ml
Spiked Amount	50.000		Recovery =	10.20%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.624	707668	5.020 ug/ml
2) T	Naphthalene (C11.7)	6.301	709232	4.868 ug/ml
3) T	2-Methylnaphthalene (...	7.401	700376	4.757 ug/ml
5) T	Acenaphthylene (C15.06)	8.706	690062	4.762 ug/ml
7) T	Acenaphthene (C15.5)	9.006	686883	4.789 ug/ml
8) T	Flouorene (C16.55)	9.796	675559	4.676 ug/ml
9) T	Phenanthrene (C19.36)	11.204	711069	4.875 ug/ml
10) T	Anthracene (C19.43)	11.279	728208	5.090 ug/ml
12) T	Fluoranthene (C21.85)	13.026	730906	5.005 ug/ml
13) T	Pyrene (C20.8)	13.325	712306	4.971 ug/ml
14) T	Benzo[a]anthracene (C...	15.209	667130	4.901 ug/ml
15) T	Chrysene (C27.41)	15.251	742138	5.203 ug/ml
16) T	benzo[b]fluoranthene ...	16.769	643824	4.900 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.801	642318	5.103 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.150	635965	4.981 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.524	547710	4.803 ug/ml
20) T	Dibenz[a,h]anthracene...	18.565	722079	5.531 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.778	625224	5.077 ug/ml

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

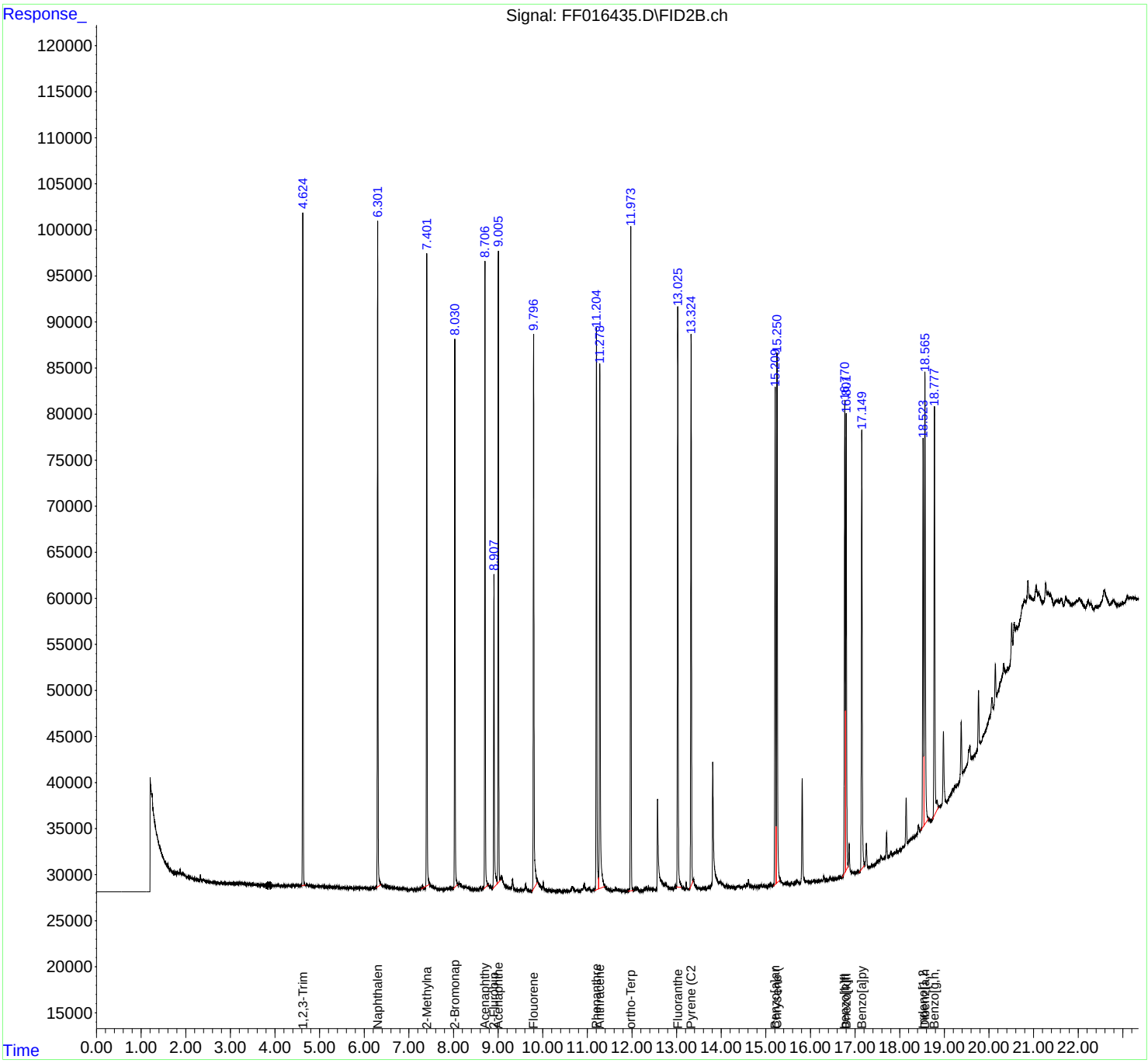
Quantitation Report (QT Reviewed)

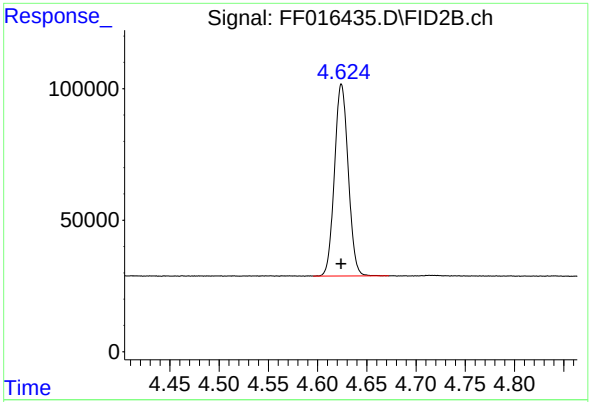
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:24:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:23:45 2025
Response via : Initial Calibration
Integrator: ChemStation

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

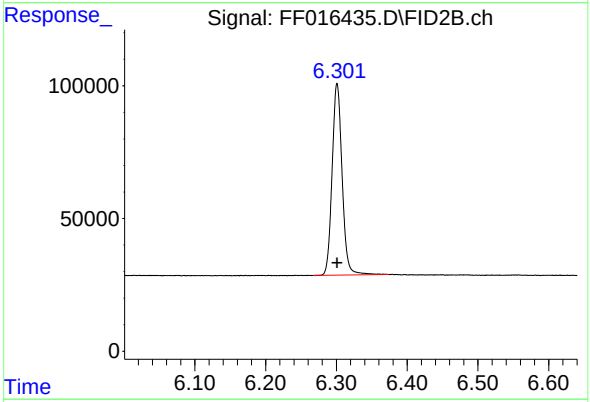




#1 1,2,3-Trimethylbenzene (C10.1)

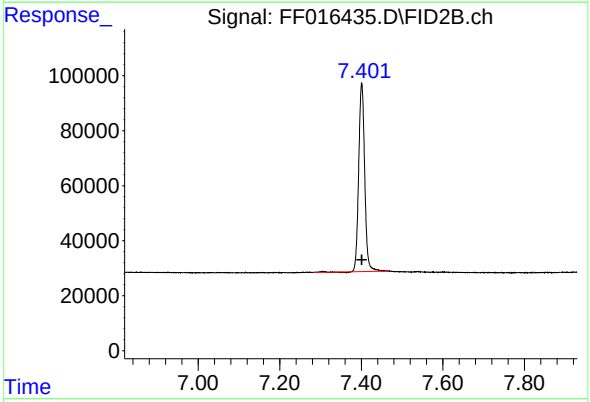
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 707668
Conc: 5.02 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



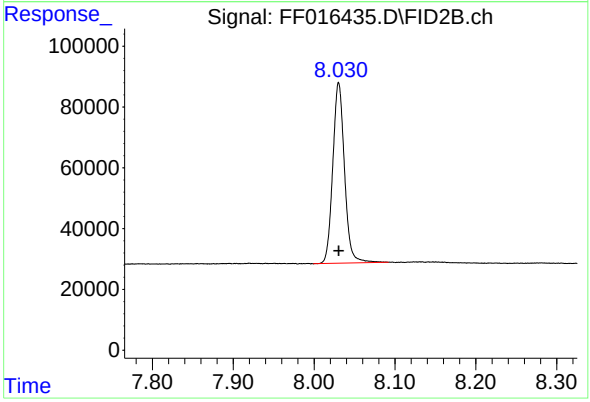
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 709232
Conc: 4.87 ug/ml



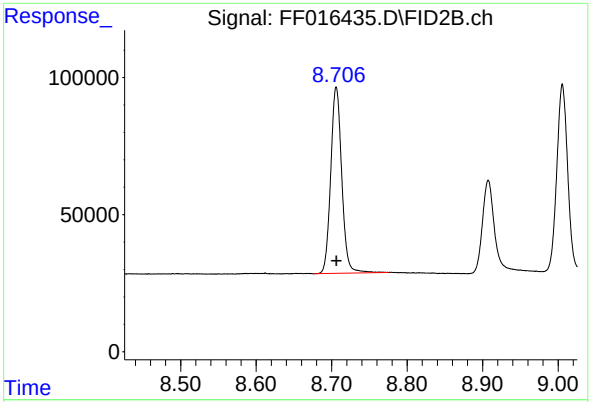
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 700376
Conc: 4.76 ug/ml



#4 2-Bromonaphthalene (SURR)

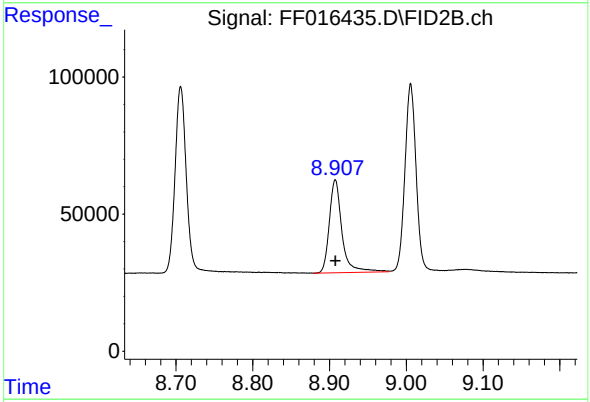
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 598161
Conc: 4.78 ug/ml



#5 Acenaphthylene (C15.06)

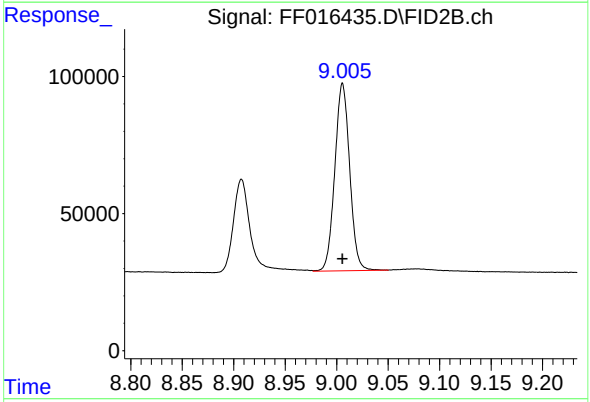
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 690062
Conc: 4.76 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



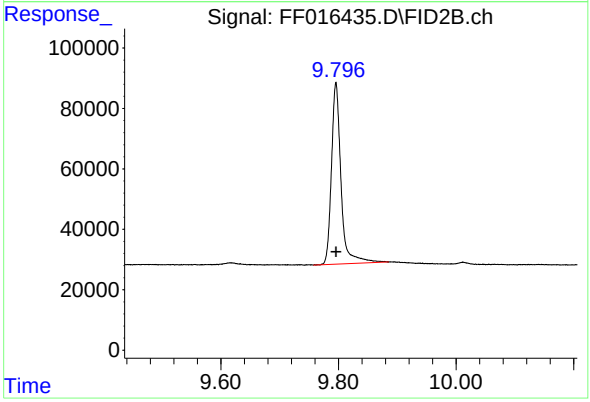
#6 2-Flurobiphenyl (SURR)

R.T.: 8.908 min
Delta R.T.: 0.000 min
Response: 388157
Conc: 4.60 ug/ml



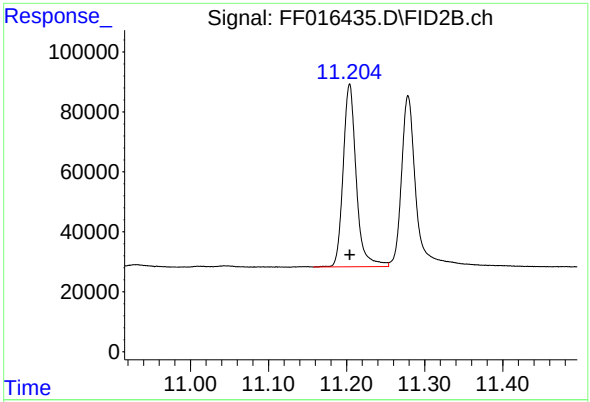
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 686883
Conc: 4.79 ug/ml



#8 Flouorene (C16.55)

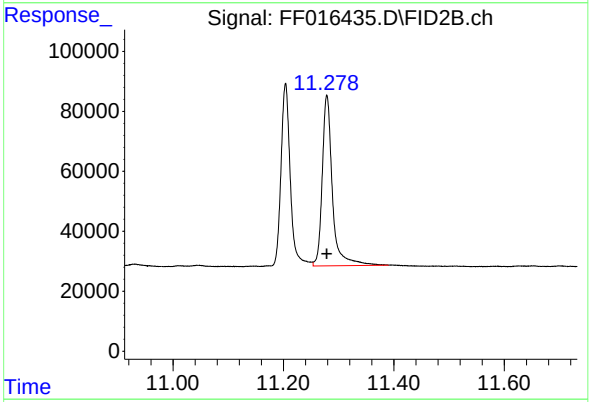
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 675559
Conc: 4.68 ug/ml



#9 Phenanthrene (C19.36)

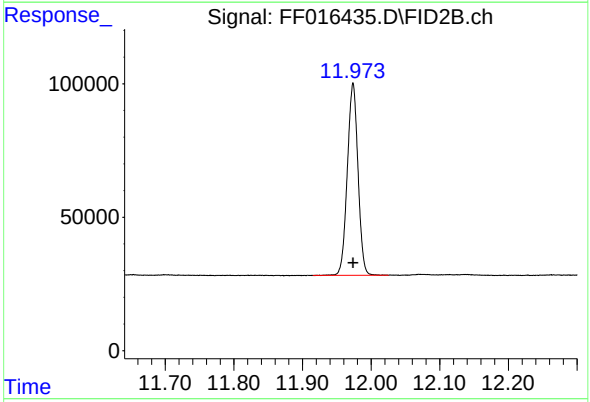
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 711069
Conc: 4.88 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



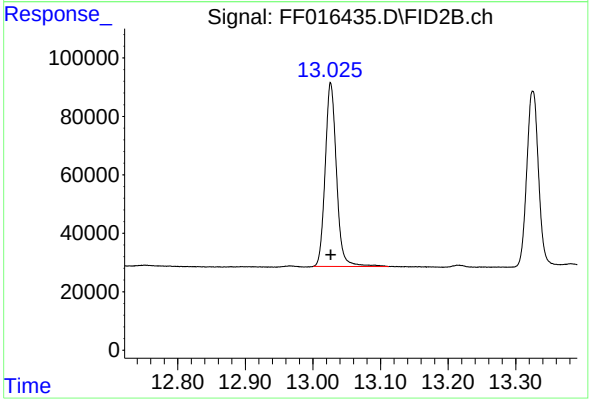
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 728208
Conc: 5.09 ug/ml



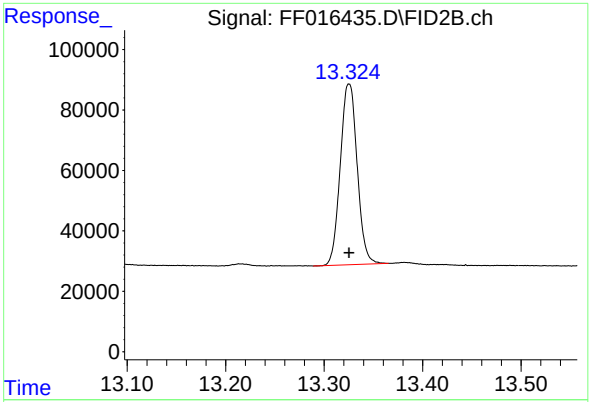
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 777849
Conc: 5.10 ug/ml



#12 Fluoranthene (C21.85)

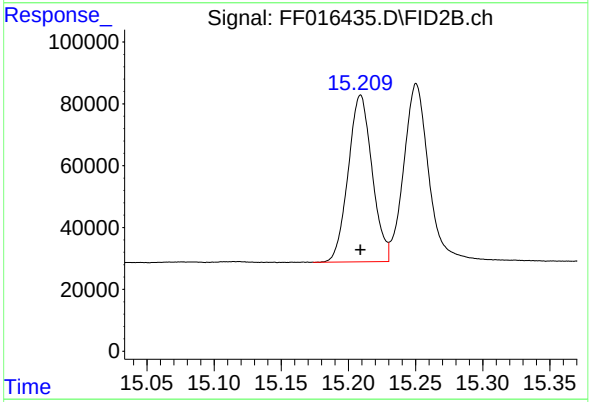
R.T.: 13.026 min
Delta R.T.: 0.000 min
Response: 730906
Conc: 5.00 ug/ml



#13 Pyrene (C20.8)

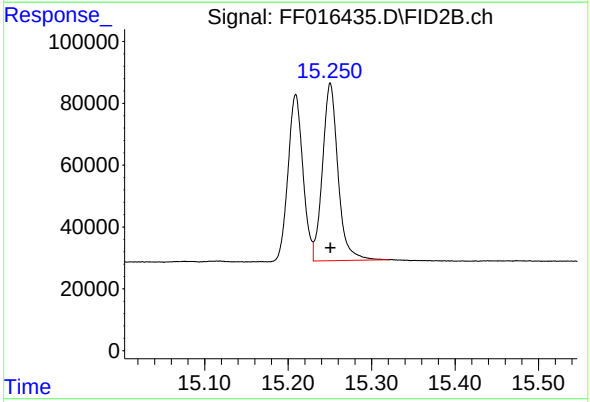
R.T.: 13.325 min
Delta R.T.: 0.000 min
Response: 712306
Conc: 4.97 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



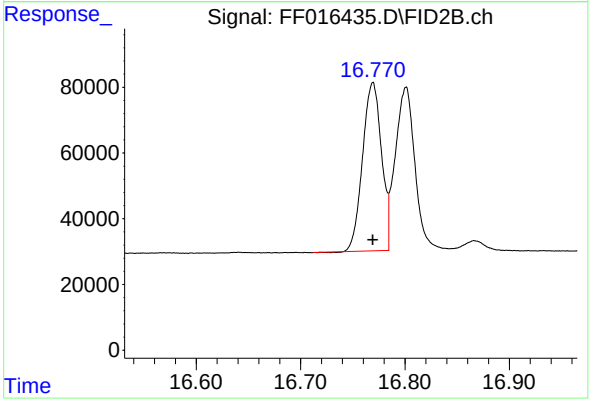
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 667130
Conc: 4.90 ug/ml



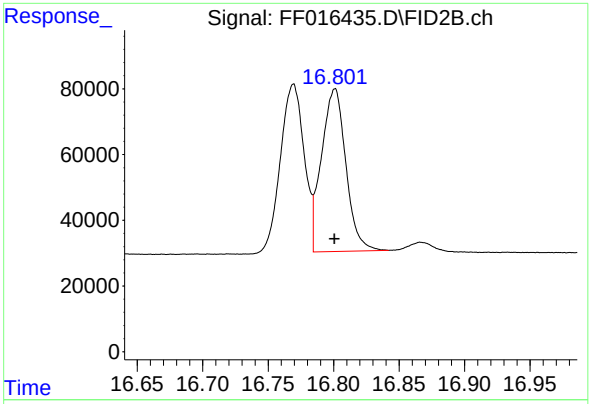
#15 Chrysene (C27.41)

R.T.: 15.251 min
Delta R.T.: 0.000 min
Response: 742138
Conc: 5.20 ug/ml



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

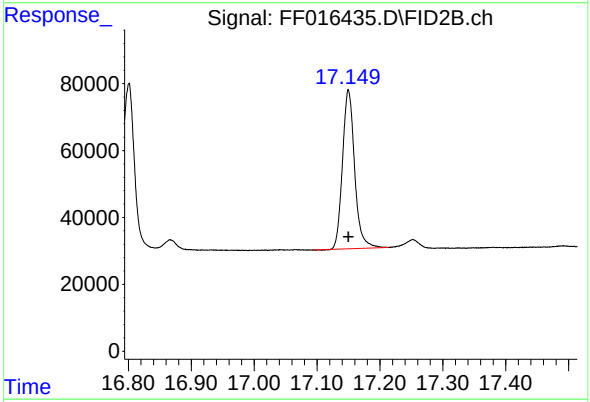
R.T.: 16.769 min
Delta R.T.: 0.000 min
Response: 643824
Conc: 4.90 ug/ml



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

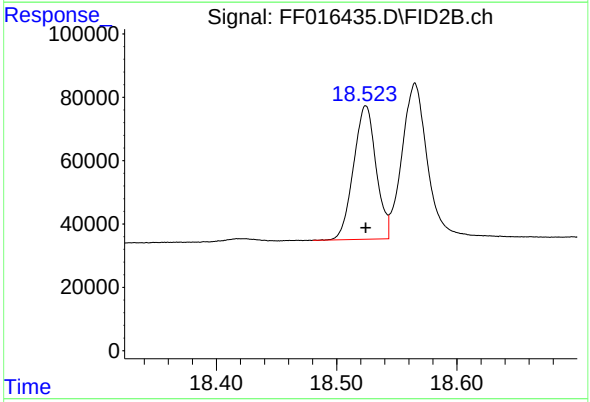
R.T.: 16.801 min
Delta R.T.: 0.000 min
Response: 642318
Conc: 5.10 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



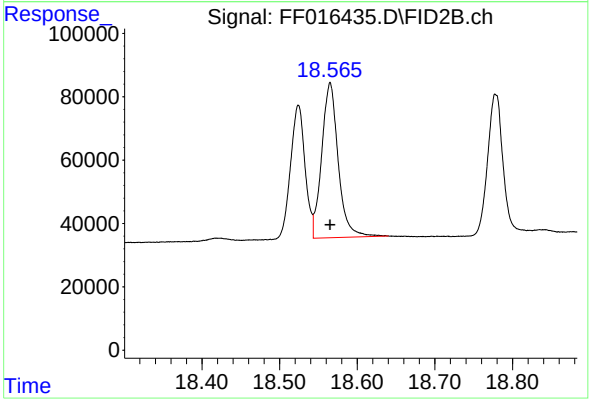
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.150 min
Delta R.T.: 0.000 min
Response: 635965
Conc: 4.98 ug/ml



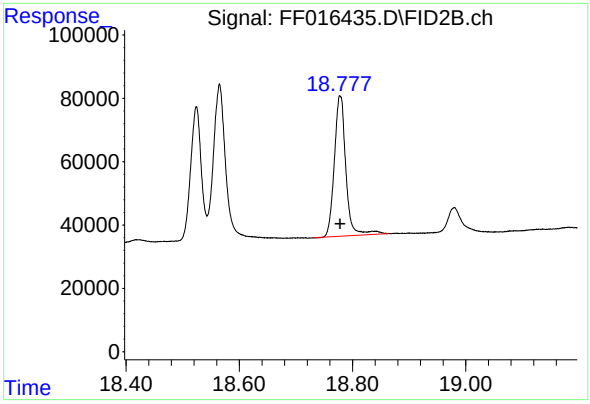
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.524 min
Delta R.T.: 0.000 min
Response: 547710
Conc: 4.80 ug/ml



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

R.T.: 18.565 min
Delta R.T.: 0.000 min
Response: 722079
Conc: 5.53 ug/ml



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

R.T.:	18.778 min
Delta R.T.:	0.000 min
Response:	625224
Conc:	5.08 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.624	4.595	4.672	BB	73020	707668	90.98%	5.039%
2	6.301	6.267	6.374	BB	72230	709232	91.18%	5.050%
3	7.401	7.282	7.467	BB	68568	700376	90.04%	4.987%
4	8.031	7.999	8.092	BB	59455	598161	76.90%	4.260%
5	8.706	8.675	8.775	BB	68009	690062	88.71%	4.914%
6	8.908	8.879	8.977	BV	33968	388157	49.90%	2.764%
7	9.006	8.977	9.050	VV	68406	686883	88.31%	4.891%
8	9.796	9.757	9.885	BB	59984	675559	86.85%	4.811%
9	11.204	11.157	11.254	BV	60981	711069	91.41%	5.064%
10	11.279	11.254	11.390	VB	56945	728208	93.62%	5.186%
11	11.974	11.915	12.025	BB	72220	777849	100.00%	5.539%
12	13.026	13.000	13.112	BB	62485	730906	93.96%	5.205%
13	13.325	13.289	13.365	BV	59832	712306	91.57%	5.072%
14	15.209	15.174	15.230	BV	53965	667130	85.77%	4.751%
15	15.251	15.230	15.320	VB	57543	742138	95.41%	5.285%
16	16.769	16.712	16.784	BV	51248	643824	82.77%	4.585%
17	16.801	16.784	16.842	VV	49585	642318	82.58%	4.574%
18	17.150	17.094	17.214	BV	47387	635965	81.76%	4.529%
19	18.524	18.480	18.543	BV	42239	547710	70.41%	3.900%
20	18.565	18.543	18.640	VB	49127	722079	92.83%	5.142%
21	18.778	18.730	18.864	BB	44158	625224	80.38%	4.452%
			Sum of corrected areas:			14042825		

Aromatic EPH 092425.M Thu Sep 25 00:50:32 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:38:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 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...	8.030	2211521	17.654	ug/ml
Spiked Amount	50.000		Recovery =	35.31%	
6)	S 2-Flurobiphenyl (SURR)	8.907	1500863	17.795	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	35.59%	
11)	S ortho-Terphenyl (SURR)	11.974	2682324	17.595	ug/ml
Spiked Amount	50.000		Recovery =	35.19%	
	Target Compounds				
1)	T 1,2,3-Trimethylbenzen...	4.624	2465539	17.491	ug/ml
2)	T Naphthalene (C11.7)	6.301	2552694	17.523	ug/ml
3)	T 2-Methylnaphthalene (...	7.402	2602818	17.680	ug/ml
5)	T Acenaphthylene (C15.06)	8.707	2564508	17.696	ug/ml
7)	T Acenaphthene (C15.5)	9.007	2527766	17.625	ug/ml
8)	T Flouorene (C16.55)	9.796	2582519	17.877	ug/ml
9)	T Phenanthrene (C19.36)	11.205	2584516	17.719	ug/ml
10)	T Anthracene (C19.43)	11.280	2510342	17.546	ug/ml
12)	T Fluoranthene (C21.85)	13.029	2578506	17.655	ug/ml
13)	T Pyrene (C20.8)	13.328	2529762	17.653	ug/ml
14)	T Benzo[a]anthracene (C...	15.212	2418959	17.771	ug/ml
15)	T Chrysene (C27.41)	15.255	2515757	17.636	ug/ml
16)	T benzo[b]fluoranthene ...	16.775	2326602	17.706	ug/ml
17)	T Bnezo[k]fluoranthene ...	16.806	2231035	17.725	ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.155	2275638	17.822	ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.530	1991060	17.460	ug/ml
20)	T Dibenz[a,h]anthracene...	18.569	2262342	17.329	ug/ml
21)	T Benzo[g,h,i]perylene ...	18.786	2143636	17.408	ug/ml

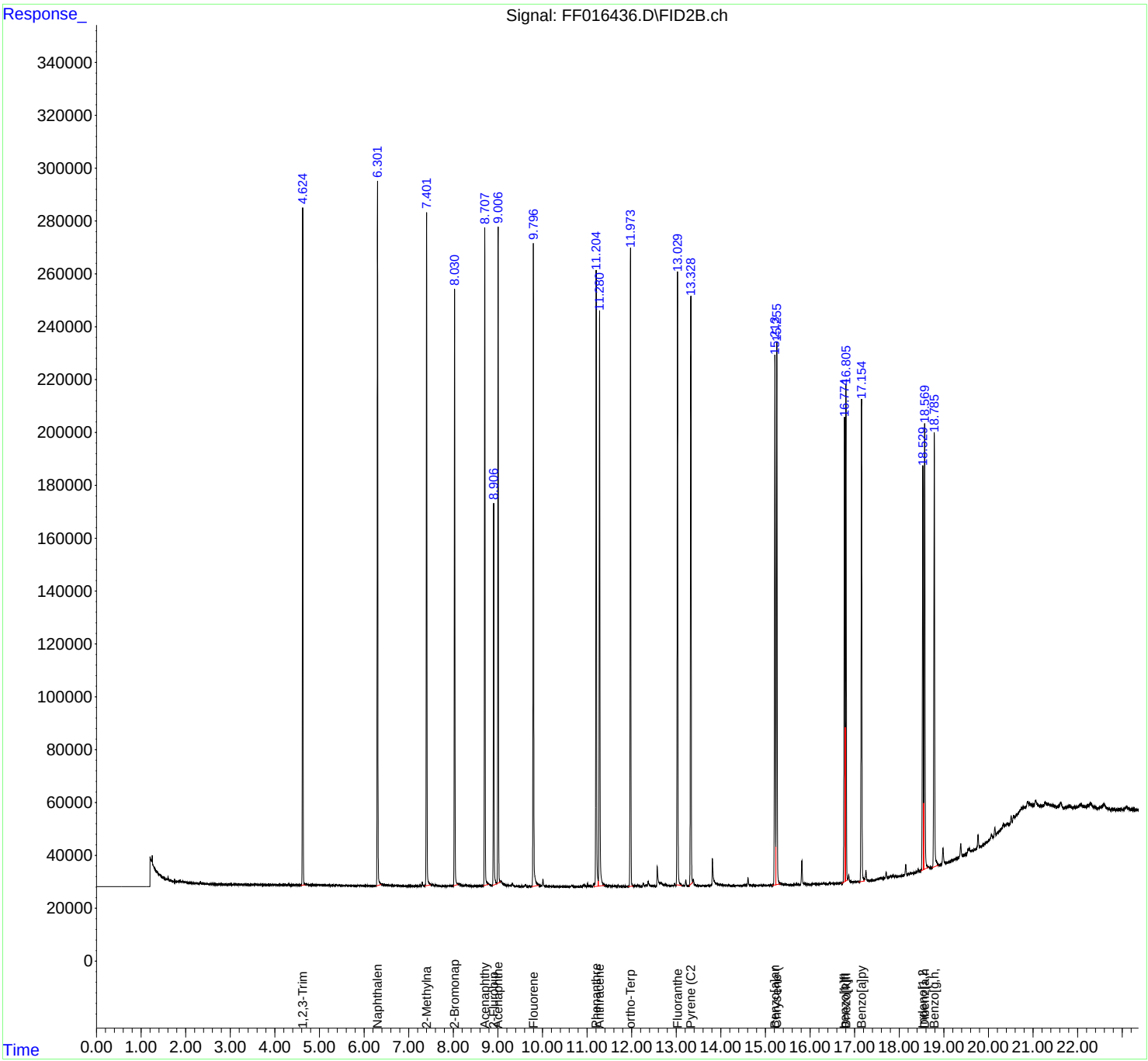
(f)=RT Delta > 1/2 Window (m)=manual int.

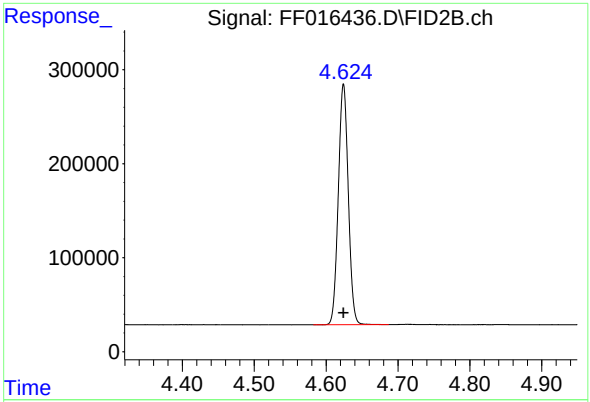
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:38:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

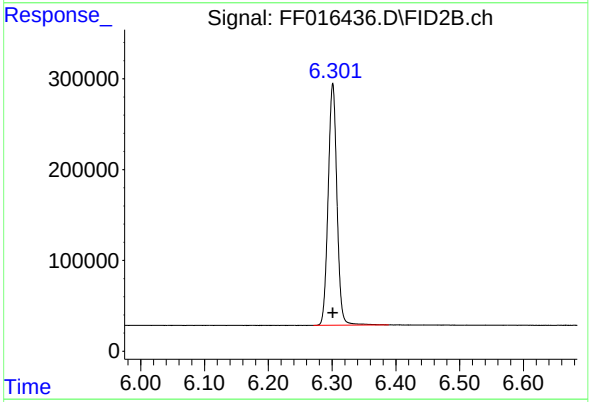




#1 1,2,3-Trimethylbenzene (C10.1)

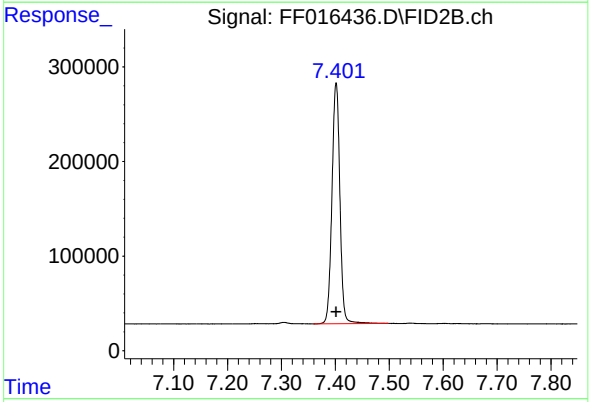
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 2465539
Conc: 17.49 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



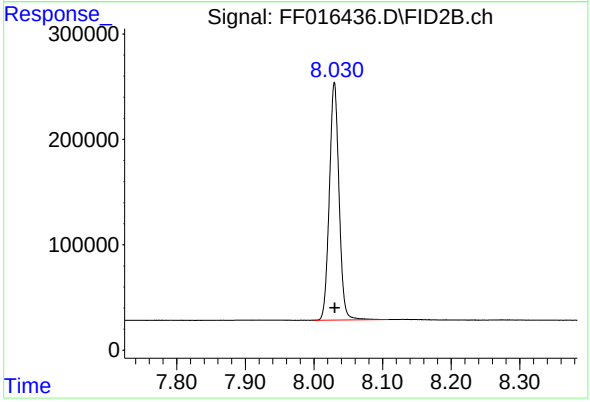
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2552694
Conc: 17.52 ug/ml



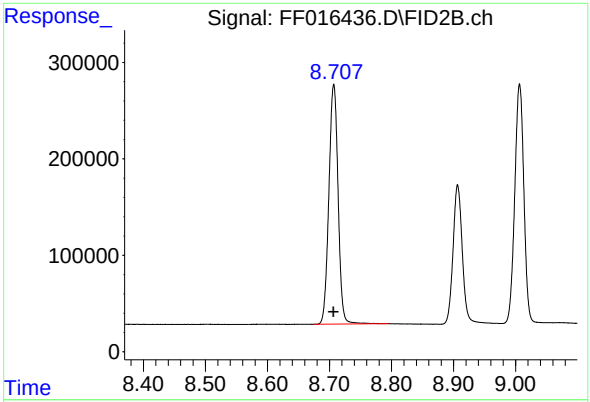
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 2602818
Conc: 17.68 ug/ml



#4 2-Bromonaphthalene (SURR)

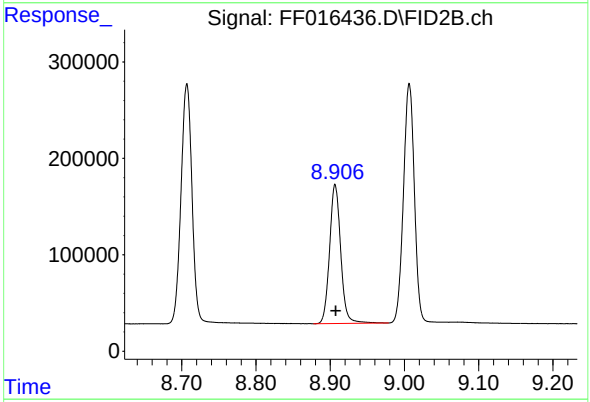
R.T.: 8.030 min
Delta R.T.: 0.000 min
Response: 2211521
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

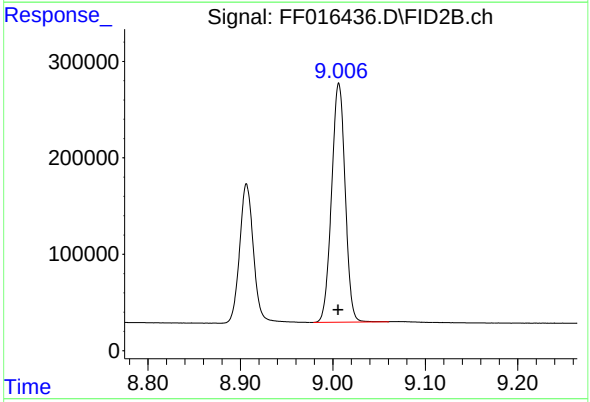
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 2564508
Conc: 17.70 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



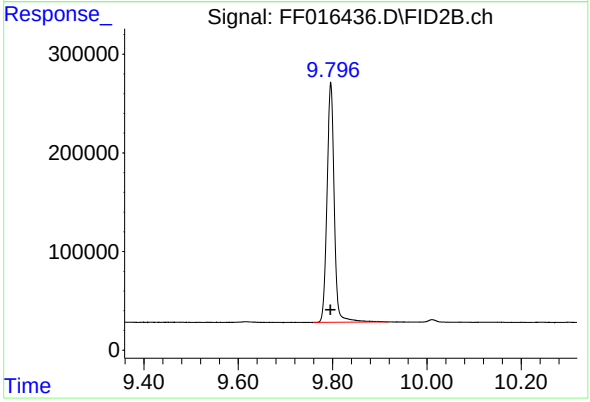
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 1500863
Conc: 17.80 ug/ml



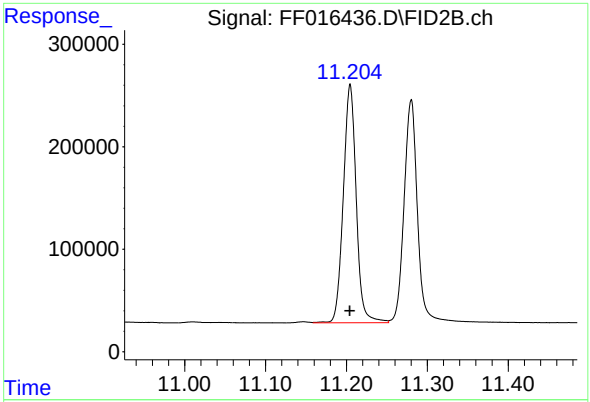
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 2527766
Conc: 17.63 ug/ml



#8 Flouorene (C16.55)

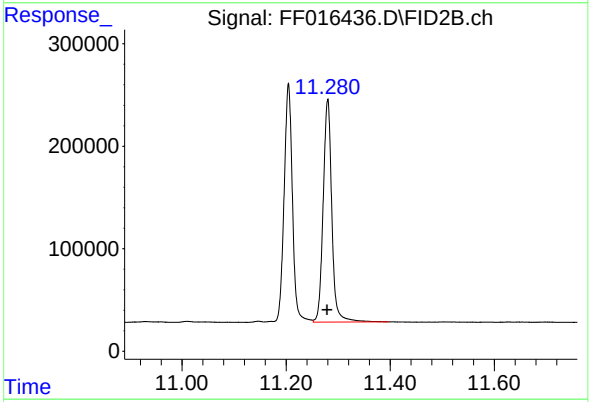
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 2582519
Conc: 17.88 ug/ml



#9 Phenanthrene (C19.36)

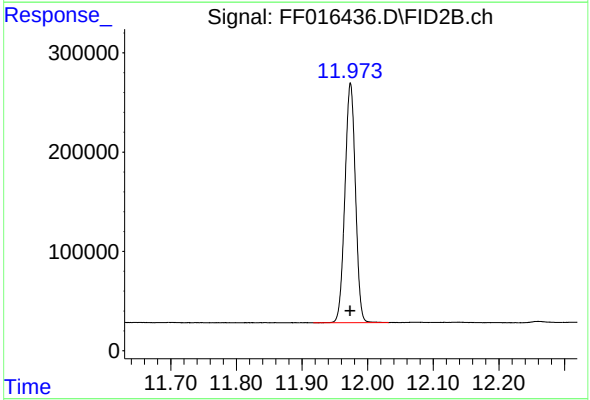
R.T.: 11.205 min
Delta R.T.: 0.000 min
Response: 2584516
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



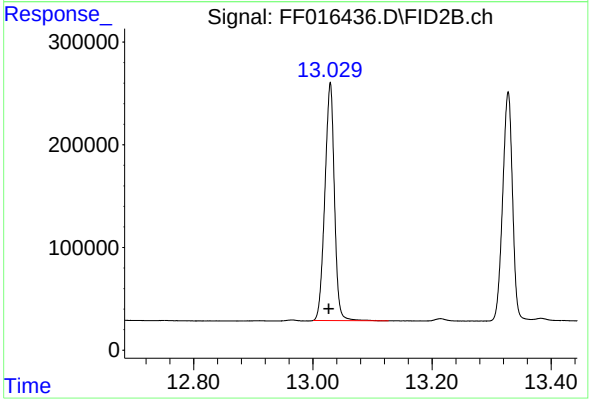
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 2510342
Conc: 17.55 ug/ml



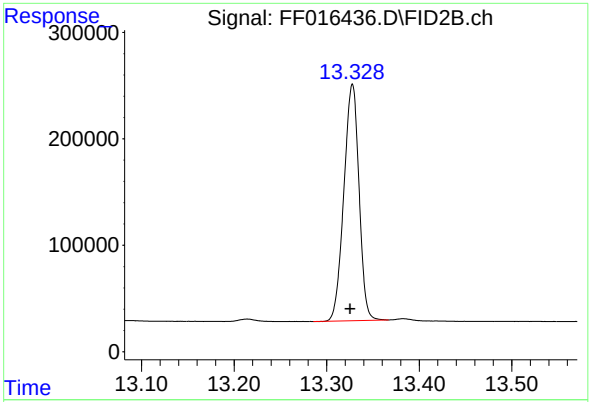
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 2682324
Conc: 17.59 ug/ml



#12 Fluoranthene (C21.85)

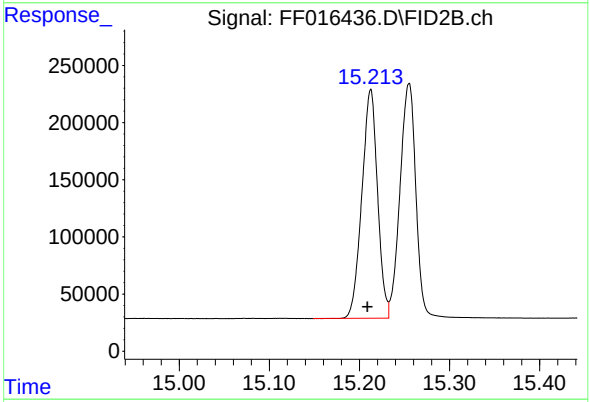
R.T.: 13.029 min
Delta R.T.: 0.003 min
Response: 2578506
Conc: 17.66 ug/ml



#13 Pyrene (C20.8)

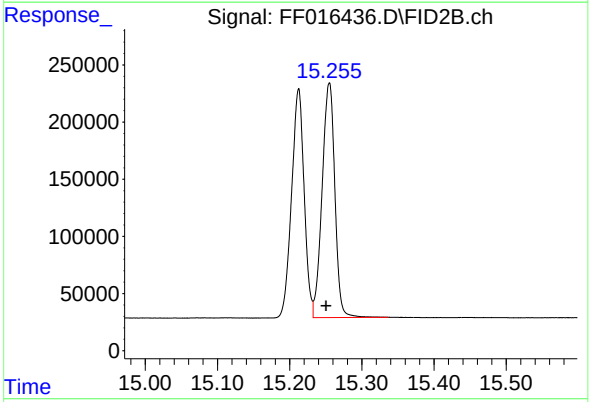
R.T.: 13.328 min
Delta R.T.: 0.002 min
Response: 2529762
Conc: 17.65 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



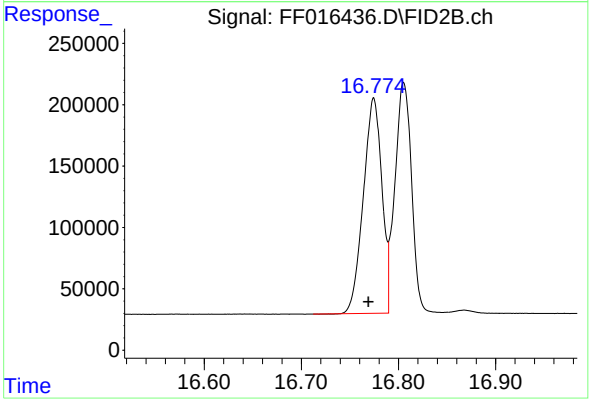
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 2418959
Conc: 17.77 ug/ml



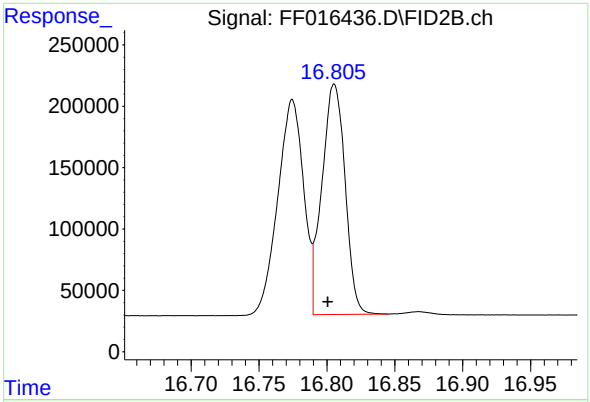
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.004 min
Response: 2515757
Conc: 17.64 ug/ml



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

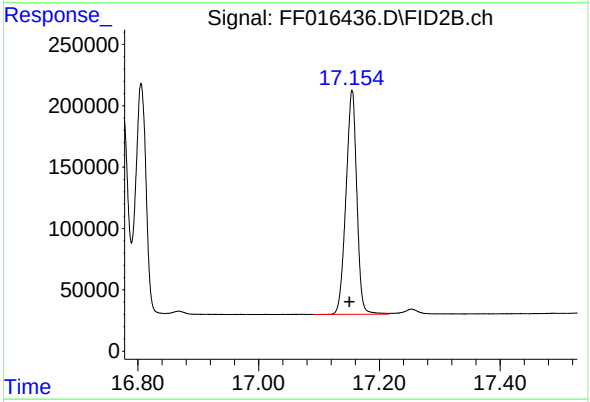
R.T.: 16.775 min
Delta R.T.: 0.005 min
Response: 2326602
Conc: 17.71 ug/ml



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

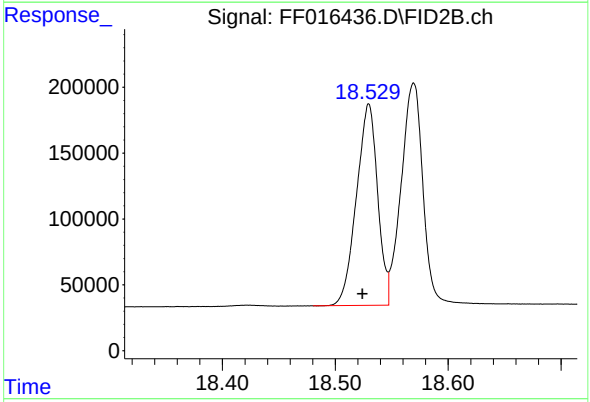
R.T.: 16.806 min
Delta R.T.: 0.005 min
Response: 2231035
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



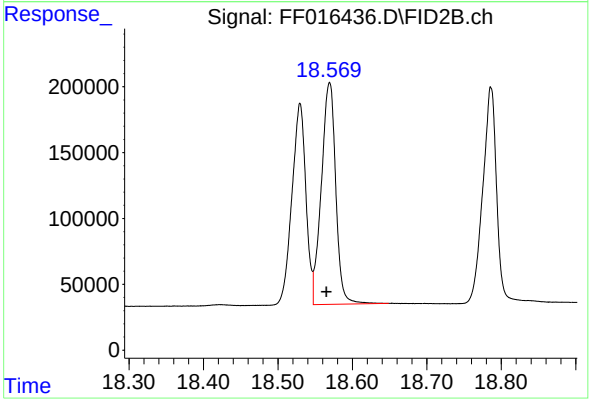
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min
Delta R.T.: 0.005 min
Response: 2275638
Conc: 17.82 ug/ml



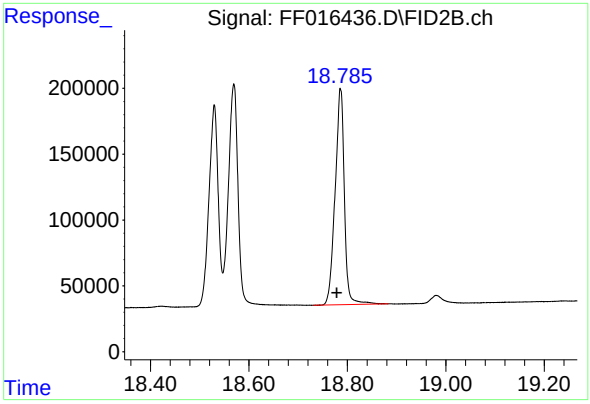
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.530 min
Delta R.T.: 0.005 min
Response: 1991060
Conc: 17.46 ug/ml



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

R.T.: 18.569 min
Delta R.T.: 0.004 min
Response: 2262342
Conc: 17.33 ug/ml



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

R.T.: 18.786 min
Delta R.T.: 0.008 min
Response: 2143636
Conc: 17.41 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.624	4.582	4.687	BB	256263	2465539	91.92%	4.925%
2	6.301	6.270	6.389	BB	265760	2552694	95.17%	5.099%
3	7.402	7.359	7.499	BB	255119	2602818	97.04%	5.200%
4	8.030	7.999	8.109	BB	226107	2211521	82.45%	4.418%
5	8.707	8.674	8.795	BB	248902	2564508	95.61%	5.123%
6	8.907	8.877	8.979	BV	143827	1500863	55.95%	2.998%
7	9.007	8.979	9.060	PB	247900	2527766	94.24%	5.050%
8	9.796	9.759	9.919	BB	242350	2582519	96.28%	5.159%
9	11.205	11.159	11.252	VV	232731	2584516	96.35%	5.163%
10	11.280	11.252	11.397	VB	218381	2510342	93.59%	5.015%
11	11.974	11.917	12.032	BB	241602	2682324	100.00%	5.358%
12	13.029	13.000	13.127	BB	231659	2578506	96.13%	5.151%
13	13.328	13.285	13.367	BV	222080	2529762	94.31%	5.054%
14	15.212	15.149	15.233	BV	200219	2418959	90.18%	4.832%
15	15.255	15.233	15.337	VB	206058	2515757	93.79%	5.026%
16	16.775	16.712	16.790	BV	175645	2326602	86.74%	4.648%
17	16.806	16.790	16.845	VV	187634	2231035	83.18%	4.457%
18	17.155	17.090	17.215	BV	183061	2275638	84.84%	4.546%
19	18.530	18.480	18.547	BV	153075	1991060	74.23%	3.977%
20	18.569	18.547	18.649	VB	168371	2262342	84.34%	4.519%
21	18.786	18.730	18.884	BB	164788	2143636	79.92%	4.282%
			Sum of corrected areas:			50058705		

Aromatic EPH 092425.M Thu Sep 25 00:51:20 2025

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

Inital Calibration Report for SequenceID : FG092425AL

AreaCount

Parameter Range	FG016627.D	FG016628.D	FG016629.D	FG016630.D	FG016631.D	
Aliphatic C9-C12	33215096.000	16952167.000	6786632.000	3543213.000	1838544.000	
Aliphatic C12-C16	23348269.000	11898419.000	4799598.000	2467499.000	1239735.000	
Aliphatic C16-C21	36506026.000	18690177.000	7657783.000	3978902.000	2098486.000	
Aliphatic C21-C28	48050203.000	24832755.000	10228580.000	5285310.000	2798387.000	
Aliphatic C28-C40	55164011.000	28860010.000	12195956.000	6306582.000	3366383.000	
Aliphatic EPH	196283605.000	101233528.000	41668549.000	21581506.000	11341535.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	115503.733333	4.142				
Aliphatic C12-C16	120612.787	2.52				
Aliphatic C16-C21	129289.3566662	5.554				
Aliphatic C21-C28	128839.7265	5.916				
Aliphatic C28-C40	101419.0969996	7.752				
Aliphatic EPH	116637.6851106	5.659				

Concentration

Parameter Range	FG016627.D	FG016628.D	FG016629.D	FG016630.D	FG016631.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	FG016627.D	FG016628.D	FG016629.D	FG016630.D	FG016631.D	
Aliphatic C9-C12	110716.986666	113014.446666	113110.533333	118107.100000	122569.600000	
Aliphatic C12-C16	116741.345000	118984.190000	119989.950000	123374.950000	123973.500000	
Aliphatic C16-C21	121686.753333	124601.180000	127629.716666	132630.066666	139899.066666	

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

Inital Calibration Report for SequenceID : FG092425AL

Aliphatic C21-C28	120125.507500	124163.775000	127857.250000	132132.750000	139919.350000	
Aliphatic C28-C40	91940.018333	96200.033333	101632.966666	105109.700000	112212.766666	
Aliphatic EPH	109046.447222	112481.697777	115745.969444	119897.255555	126017.055555	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016627.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:30:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 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)	12.067	13543350	98.222 ug/ml
Spiked Amount	50.000		Recovery =	196.44%
12)	S 1-chlorooctadecane (S...	13.510	10679746	97.914 ug/ml
Spiked Amount	50.000		Recovery =	195.83%
	Target Compounds			
1)	T n-Nonane (C9)	3.384	10831691	98.804 ug/ml
2)	T n-Decane (C10)	4.645	11074745	98.852 ug/ml
3)	T A~Naphthalene (C11.7)	6.364	12217150	100.002 ug/ml
4)	T n-Dodecane (C12)	6.827	11308660	99.129 ug/ml
5)	T A~2-methylnaphthalene...	7.468	11928750	101.040 ug/ml
6)	T n-Tetradecane (C14)	8.667	11393903	98.805 ug/ml
7)	T n-Hexadecane (C16)	10.287	11954366	98.459 ug/ml
8)	T n-Octadecane (C18)	11.742	12330072	97.799 ug/ml
10)	T n-Eicosane (C20)	13.060	12125534	97.502 ug/ml
11)	T n-Heneicosane (C21)	13.678	12050420	97.545 ug/ml
13)	T n-Docosane (C22)	14.267	12089669	97.342 ug/ml
14)	T n-Tetracosane (C24)	15.379	12192647	96.995 ug/ml
15)	T n-Hexacosane (C26)	16.407	12034734	96.916 ug/ml
16)	T n-Octacosane (C28)	17.363	11733153	96.263 ug/ml
17)	T n-Tricontane (C30)	18.257	11608655	94.399 ug/ml
18)	T n-Dotriacontane (C32)	19.093	10857998	92.722 ug/ml
19)	T n-Tetratriacontane (C34)	19.881	9726422	93.535 ug/ml
20)	T n-Hexatriacontane (C36)	20.625	8339055	95.487 ug/ml
21)	T n-Octatriacontane (C38)	21.406	7536794	97.606 ug/ml
22)	T n-Tetracontane (C40)	22.399	7095087	98.397 ug/ml

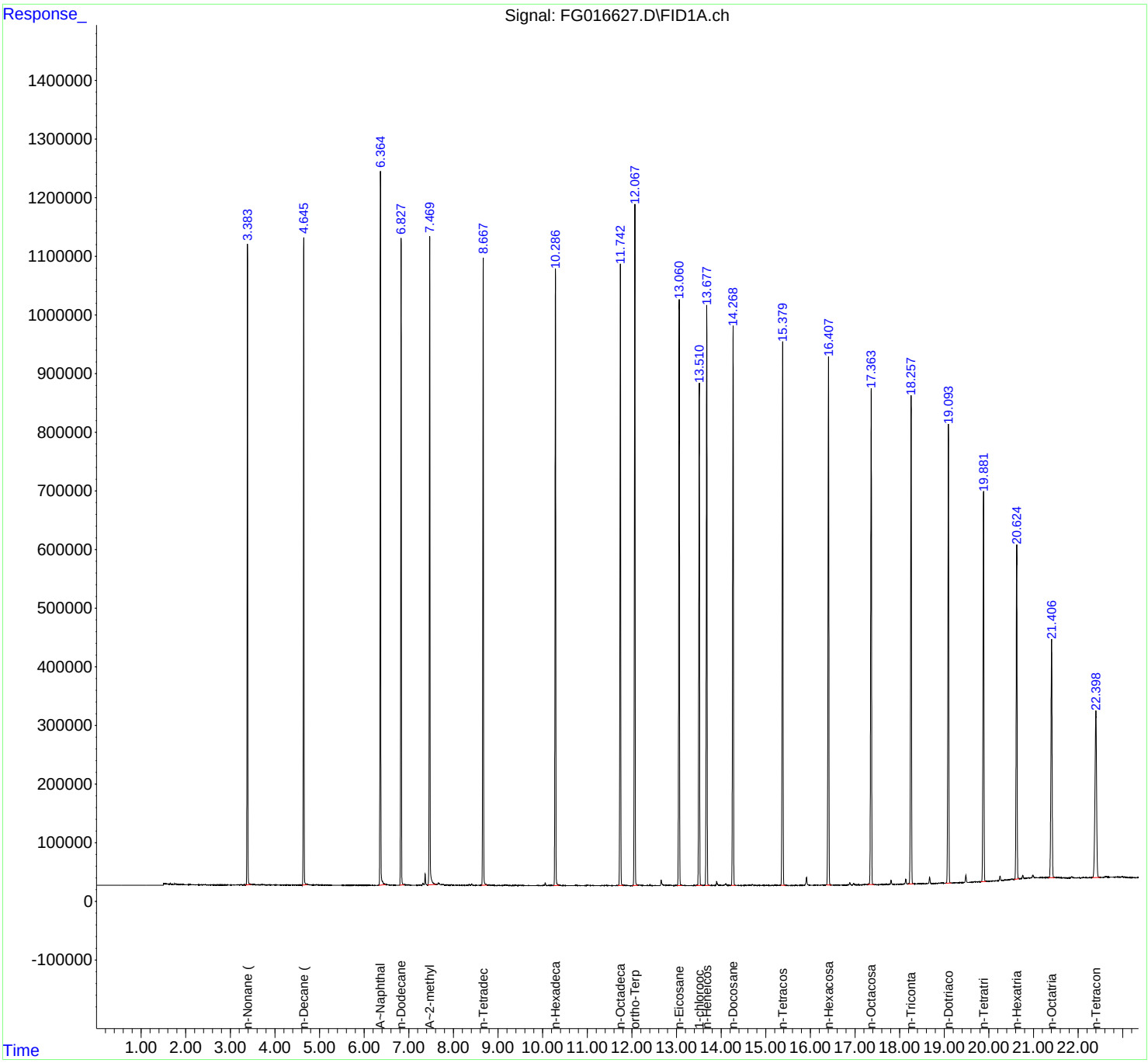
(f)=RT Delta > 1/2 Window (m)=manual int.

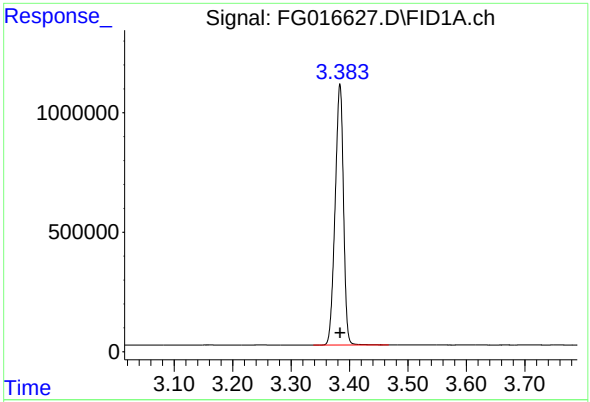
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016627.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 15:30:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

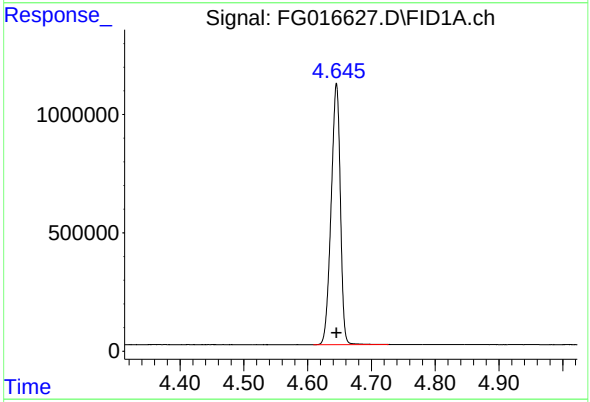




#1 n-Nonane (C9)

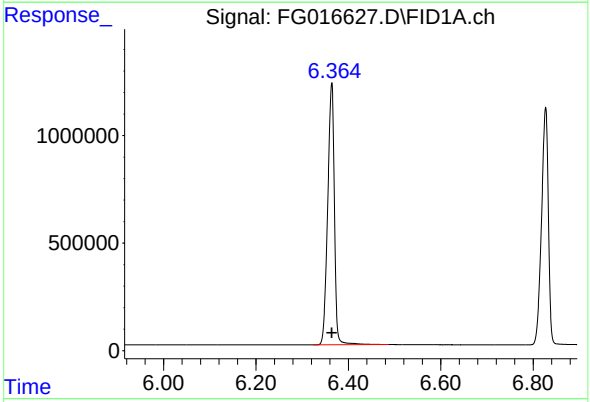
R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 10831691
Conc: 98.80 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



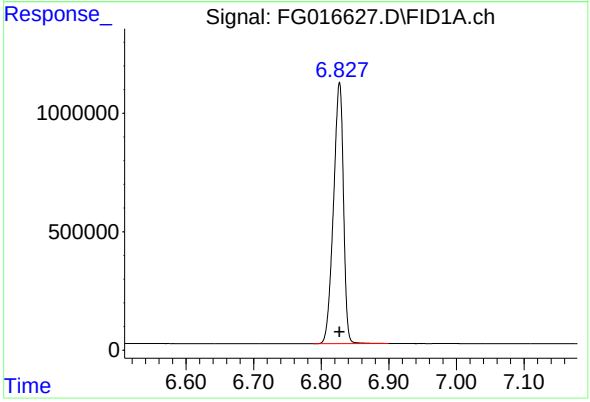
#2 n-Decane (C10)

R.T.: 4.645 min
Delta R.T.: 0.000 min
Response: 11074745
Conc: 98.85 ug/ml



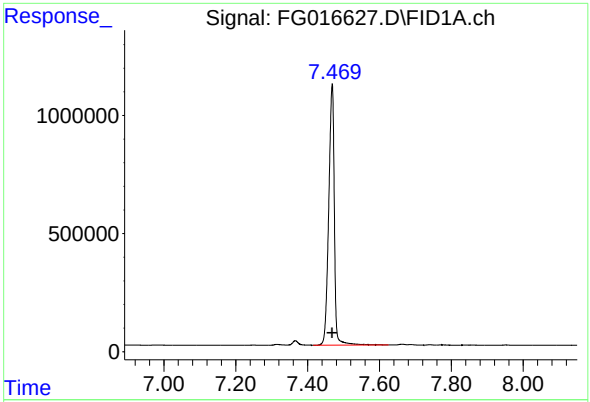
#3 A~Naphthalene (C11.7)

R.T.: 6.364 min
Delta R.T.: 0.000 min
Response: 12217150
Conc: 100.00 ug/ml



#4 n-Dodecane (C12)

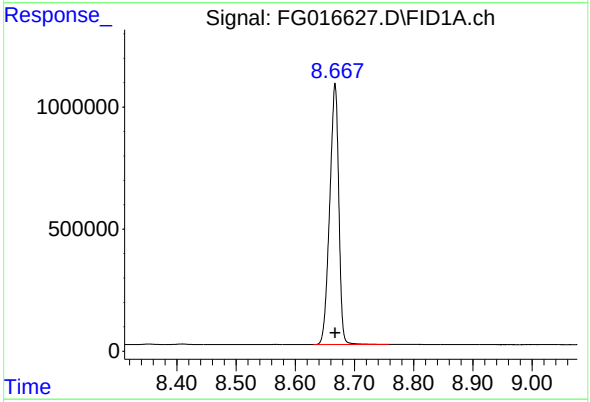
R.T.: 6.827 min
Delta R.T.: 0.000 min
Response: 11308660
Conc: 99.13 ug/ml



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

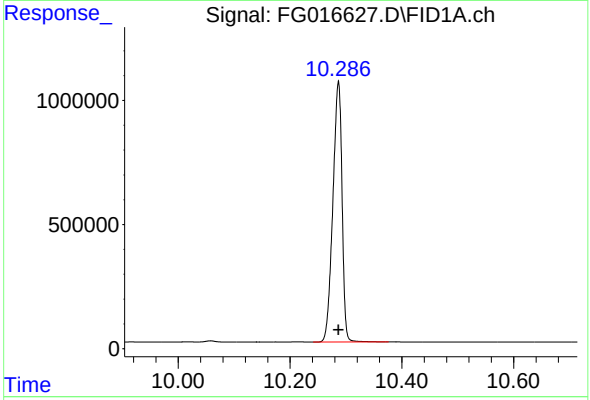
R.T.: 7.468 min
Delta R.T.: 0.000 min
Response: 11928750
Conc: 101.04 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



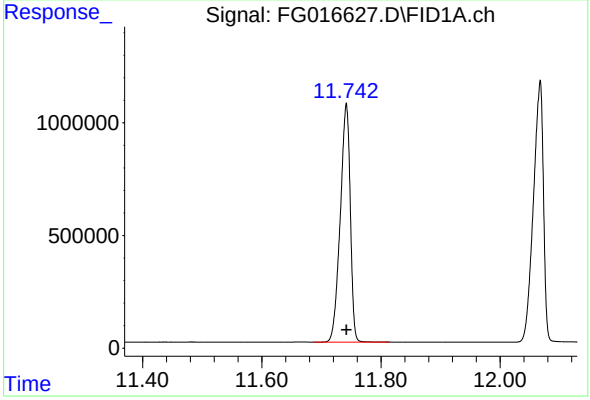
#6 n-Tetradecane (C14)

R.T.: 8.667 min
Delta R.T.: 0.000 min
Response: 11393903
Conc: 98.81 ug/ml



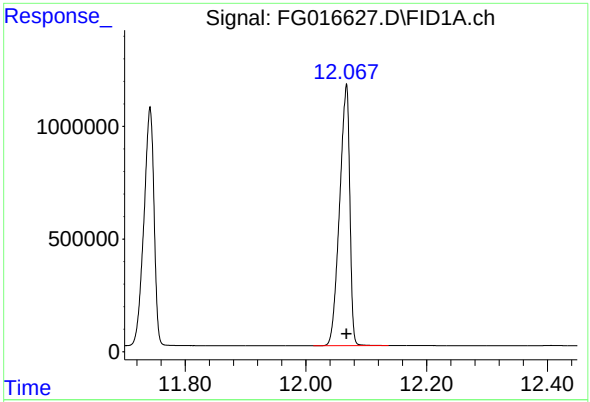
#7 n-Hexadecane (C16)

R.T.: 10.287 min
Delta R.T.: 0.000 min
Response: 11954366
Conc: 98.46 ug/ml



#8 n-Octadecane (C18)

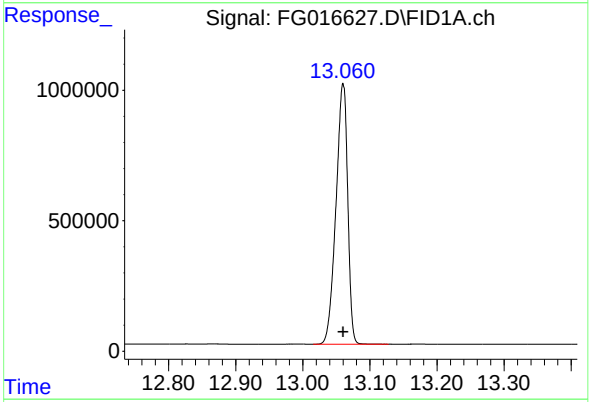
R.T.: 11.742 min
Delta R.T.: 0.000 min
Response: 12330072
Conc: 97.80 ug/ml



#9 ortho-Terphenyl (SURR)

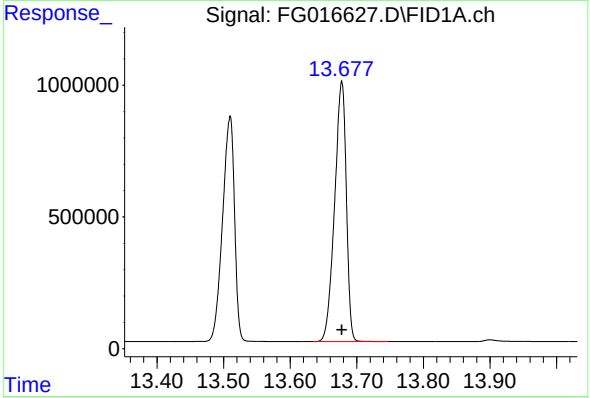
R.T.: 12.067 min
Delta R.T.: 0.000 min
Response: 13543350
Conc: 98.22 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



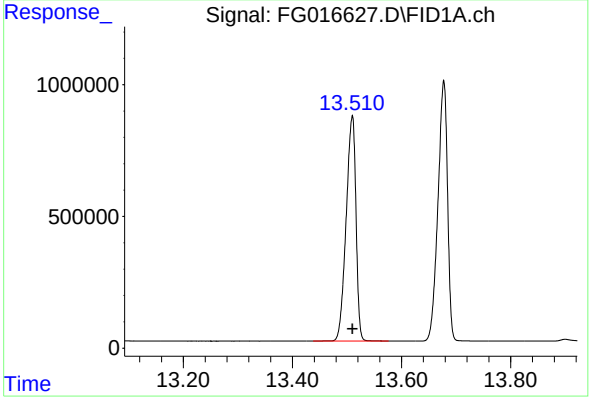
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.000 min
Response: 12125534
Conc: 97.50 ug/ml



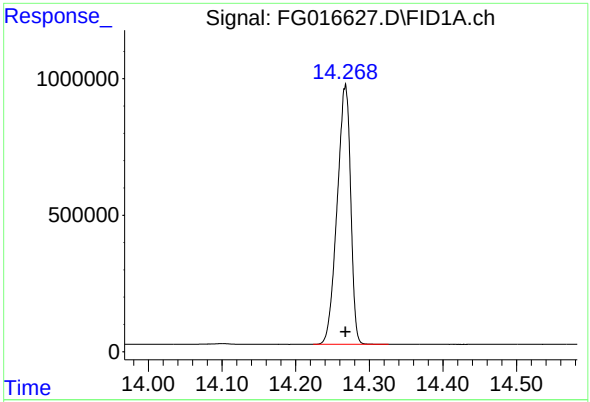
#11 n-Heneicosane (C21)

R.T.: 13.678 min
Delta R.T.: 0.000 min
Response: 12050420
Conc: 97.54 ug/ml



#12 1-chlorooctadecane (SURR)

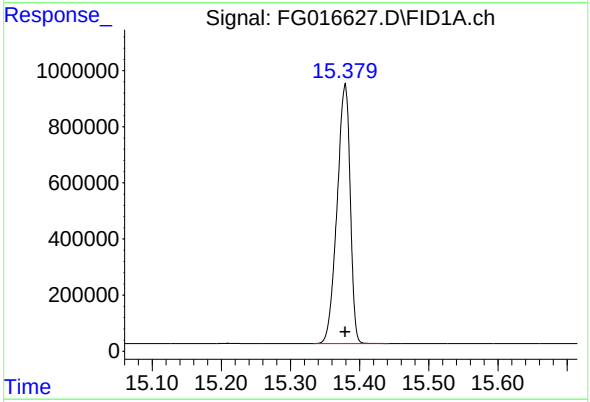
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 10679746
Conc: 97.91 ug/ml



#13 n-Docosane (C22)

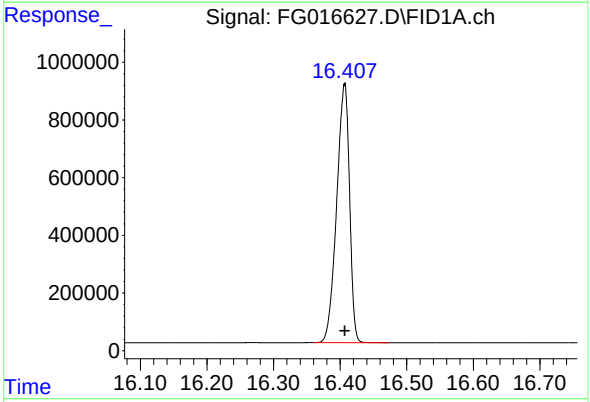
R.T.: 14.267 min
Delta R.T.: 0.000 min
Response: 12089669
Conc: 97.34 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



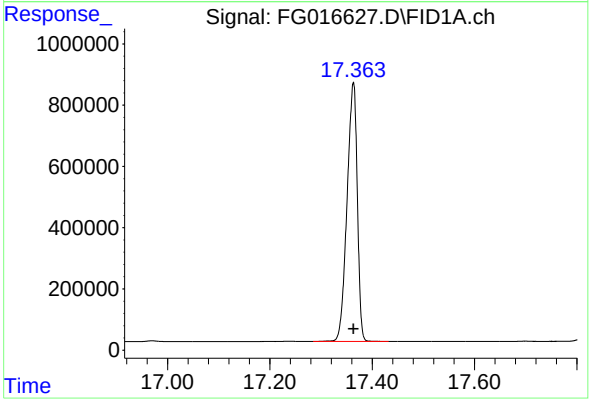
#14 n-Tetracosane (C24)

R.T.: 15.379 min
Delta R.T.: 0.000 min
Response: 12192647
Conc: 96.99 ug/ml



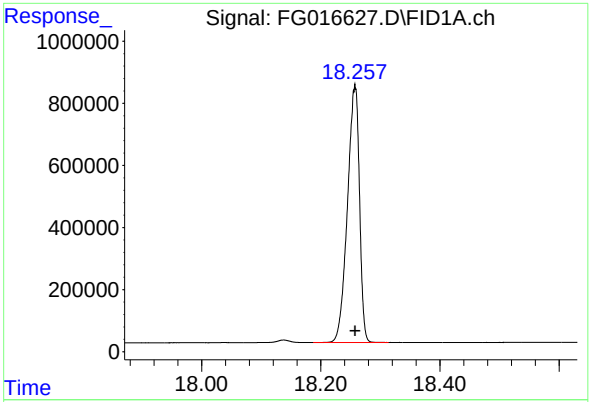
#15 n-Hexacosane (C26)

R.T.: 16.407 min
Delta R.T.: 0.000 min
Response: 12034734
Conc: 96.92 ug/ml



#16 n-Octacosane (C28)

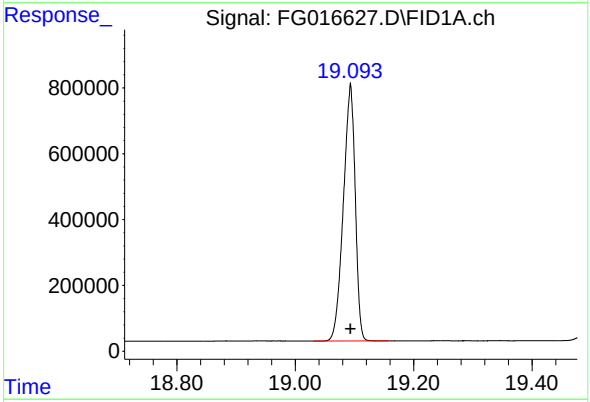
R.T.: 17.363 min
Delta R.T.: 0.000 min
Response: 11733153
Conc: 96.26 ug/ml



#17 n-Tricontane (C30)

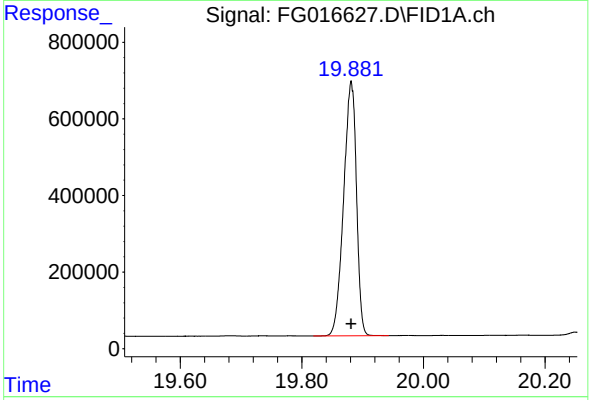
R.T.: 18.257 min
Delta R.T.: 0.000 min
Response: 11608655
Conc: 94.40 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



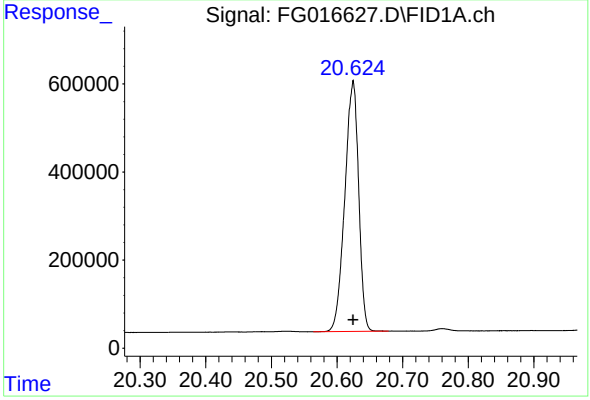
#18 n-Dotriacontane (C32)

R.T.: 19.093 min
Delta R.T.: 0.000 min
Response: 10857998
Conc: 92.72 ug/ml



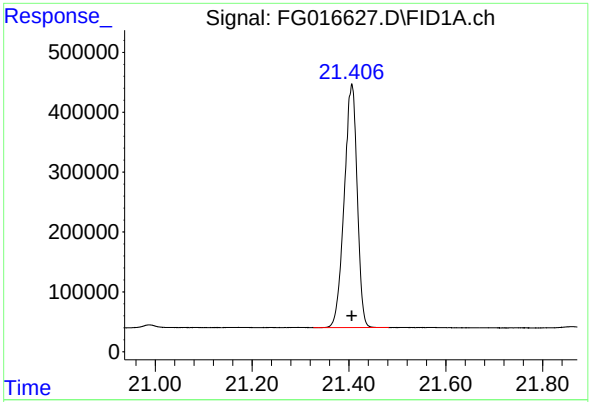
#19 n-Tetratriacontane (C34)

R.T.: 19.881 min
Delta R.T.: 0.000 min
Response: 9726422
Conc: 93.53 ug/ml



#20 n-Hexatriacontane (C36)

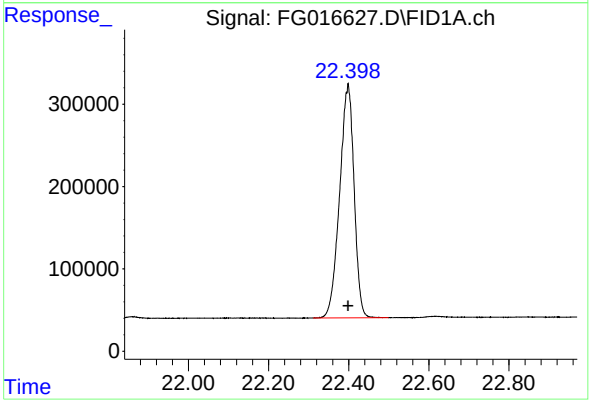
R.T.: 20.625 min
Delta R.T.: 0.000 min
Response: 8339055
Conc: 95.49 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.406 min
Delta R.T.: 0.000 min
Response: 7536794
Conc: 97.61 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.399 min
Delta R.T.: 0.000 min
Response: 7095087
Conc: 98.40 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016627.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 13:59
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.384	3.338	3.467	BB	1092296	10831691	79.98%	4.427%
2	4.645	4.609	4.727	BB	1103794	11074745	81.77%	4.527%
3	6.364	6.324	6.487	BB	1219947	12217150	90.21%	4.994%
4	6.827	6.788	6.900	BB	1102890	11308660	83.50%	4.622%
5	7.468	7.415	7.625	BB	1105920	11928750	88.08%	4.876%
6	8.667	8.630	8.758	BB	1069095	11393903	84.13%	4.657%
7	10.287	10.241	10.376	BB	1052874	11954366	88.27%	4.886%
8	11.742	11.686	11.813	BB	1060102	12330072	91.04%	5.040%
9	12.067	12.012	12.137	BB	1159808	13543350	100.00%	5.536%
10	13.060	13.015	13.128	BB	997854	12125534	89.53%	4.956%
11	13.510	13.438	13.576	BB	855434	10679746	78.86%	4.365%
12	13.678	13.635	13.748	BB	986895	12050420	88.98%	4.926%
13	14.267	14.224	14.326	BB	953067	12089669	89.27%	4.942%
14	15.379	15.333	15.442	BB	928052	12192647	90.03%	4.984%
15	16.407	16.360	16.473	BB	895436	12034734	88.86%	4.919%
16	17.363	17.285	17.432	BB	846277	11733153	86.63%	4.796%
17	18.257	18.187	18.314	BB	828742	11608655	85.71%	4.745%
18	19.093	19.030	19.158	BB	781825	10857998	80.17%	4.438%
19	19.881	19.819	19.943	BB	665314	9726422	71.82%	3.976%
20	20.625	20.564	20.679	BB	569130	8339055	61.57%	3.409%
21	21.406	21.326	21.482	BB	406782	7536794	55.65%	3.081%
22	22.399	22.311	22.500	BB	284747	7095087	52.39%	2.900%
			Sum of corrected areas:			244652602		

Aliphatic EPH 092425.M Thu Sep 25 04:08:29 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016628.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:32:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 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)	12.061	6928695	50.166 ug/ml
Spiked Amount	50.000		Recovery =	100.33%
12)	S 1-chlorooctadecane (S...	13.505	5469032	50.094 ug/ml
Spiked Amount	50.000		Recovery =	100.19%
	Target Compounds			
1)	T n-Nonane (C9)	3.381	5528279	50.284 ug/ml
2)	T n-Decane (C10)	4.642	5652826	50.304 ug/ml
3)	T A~Naphthalene (C11.7)	6.360	6200558	50.500 ug/ml
4)	T n-Dodecane (C12)	6.824	5771062	50.390 ug/ml
5)	T A~2-methylnaphthalene...	7.463	6042738	50.783 ug/ml
6)	T n-Tetradecane (C14)	8.664	5809256	50.250 ug/ml
7)	T n-Hexadecane (C16)	10.283	6089163	50.101 ug/ml
8)	T n-Octadecane (C18)	11.737	6296624	49.962 ug/ml
10)	T n-Eicosane (C20)	13.056	6215117	49.984 ug/ml
11)	T n-Heneicosane (C21)	13.673	6178436	50.008 ug/ml
13)	T n-Docosane (C22)	14.263	6212951	50.016 ug/ml
14)	T n-Tetracosane (C24)	15.375	6284923	49.999 ug/ml
15)	T n-Hexacosane (C26)	16.403	6229377	50.110 ug/ml
16)	T n-Octacosane (C28)	17.358	6105504	50.061 ug/ml
17)	T n-Tricontane (C30)	18.252	6079765	49.625 ug/ml
18)	T n-Dotriacontane (C32)	19.089	5728342	49.273 ug/ml
19)	T n-Tetratriacontane (C34)	19.877	5120162	49.490 ug/ml
20)	T n-Hexatriacontane (C36)	20.620	4360749	49.955 ug/ml
21)	T n-Octatriacontane (C38)	21.401	3909499	50.418 ug/ml
22)	T n-Tetracontane (C40)	22.391	3661493	50.516 ug/ml

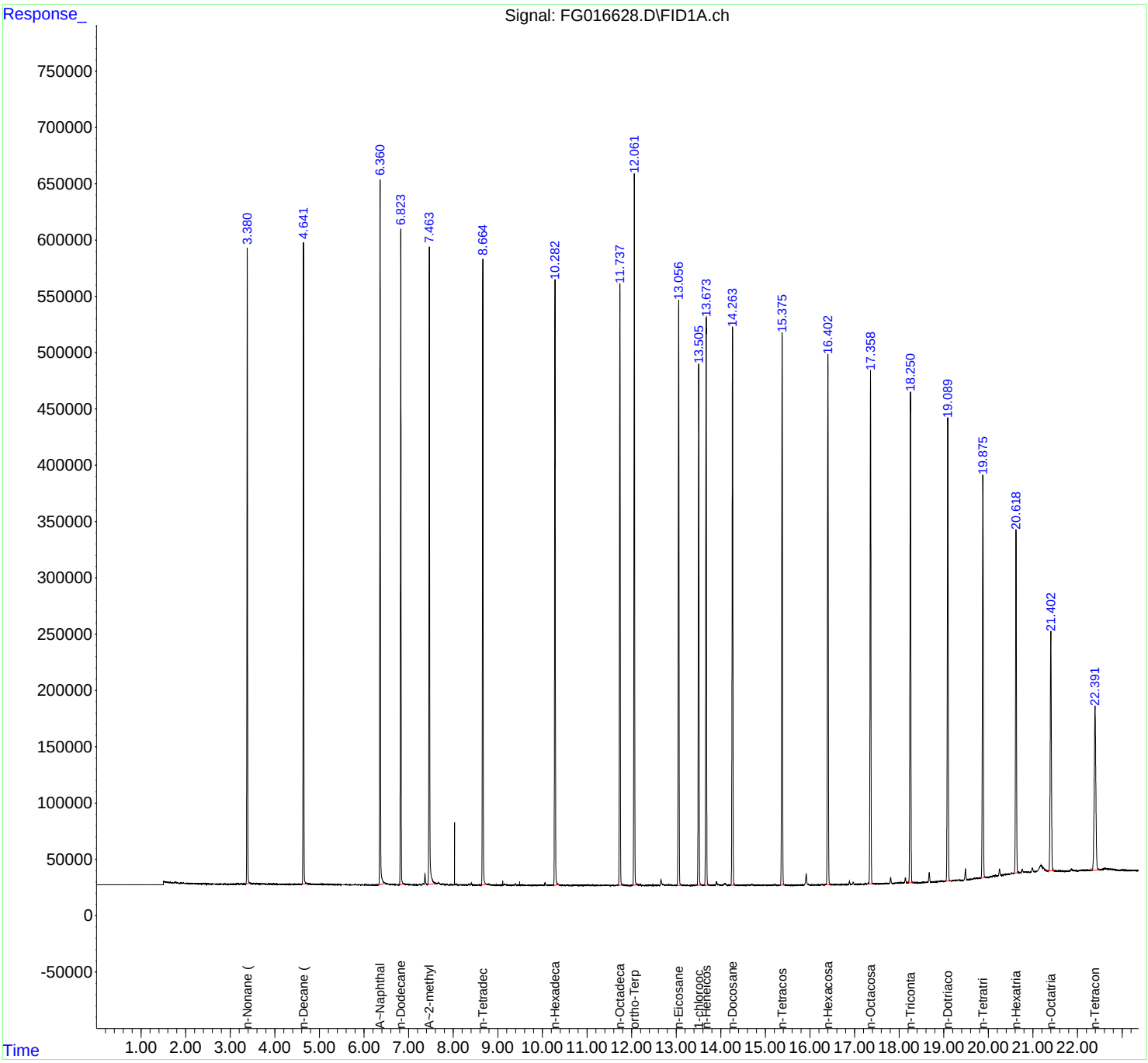
(f)=RT Delta > 1/2 Window (m)=manual int.

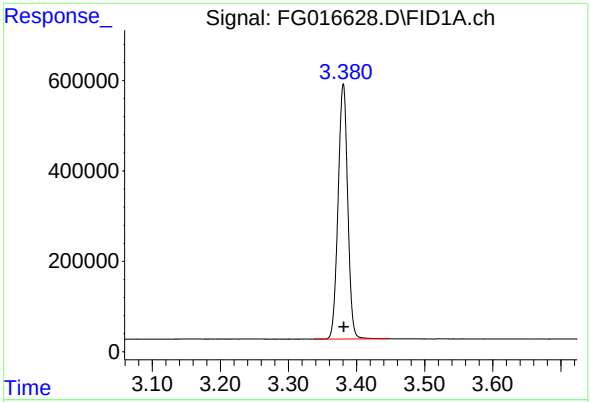
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016628.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 15:32:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

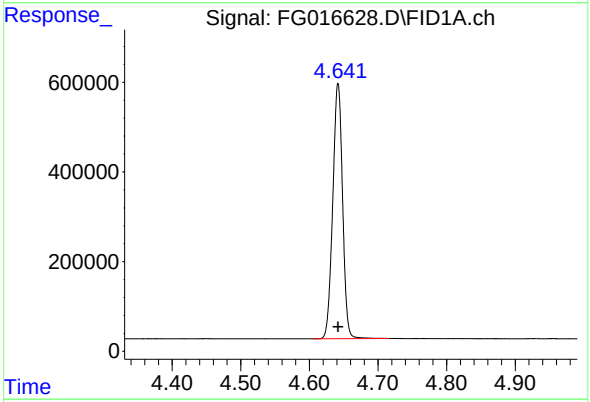




#1 n-Nonane (C9)

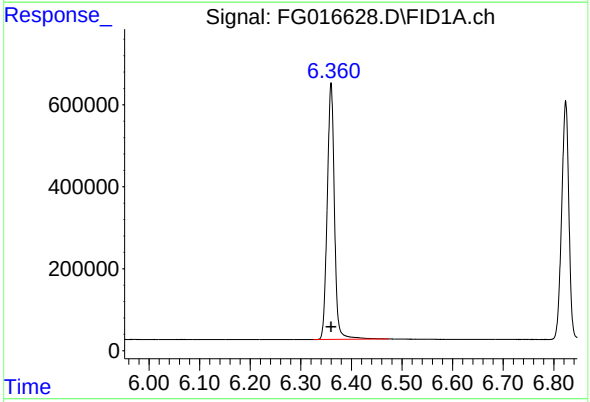
R.T.: 3.381 min
Delta R.T.: 0.000 min
Response: 5528279
Conc: 50.28 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



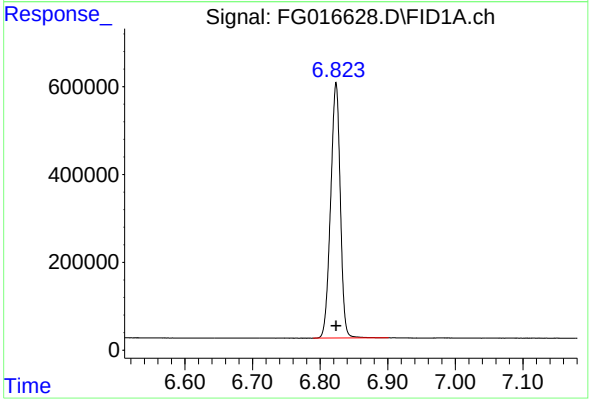
#2 n-Decane (C10)

R.T.: 4.642 min
Delta R.T.: 0.000 min
Response: 5652826
Conc: 50.30 ug/ml



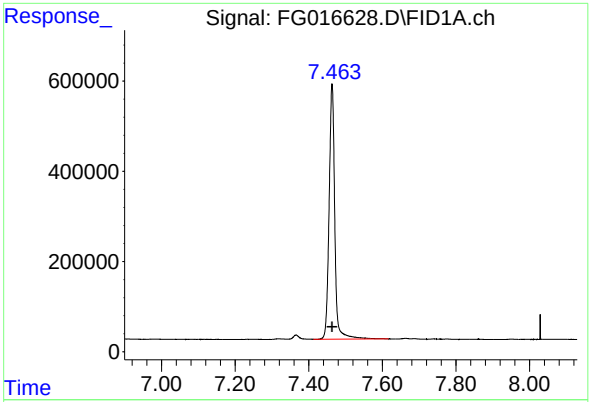
#3 A~Naphthalene (C11.7)

R.T.: 6.360 min
Delta R.T.: 0.000 min
Response: 6200558
Conc: 50.50 ug/ml



#4 n-Dodecane (C12)

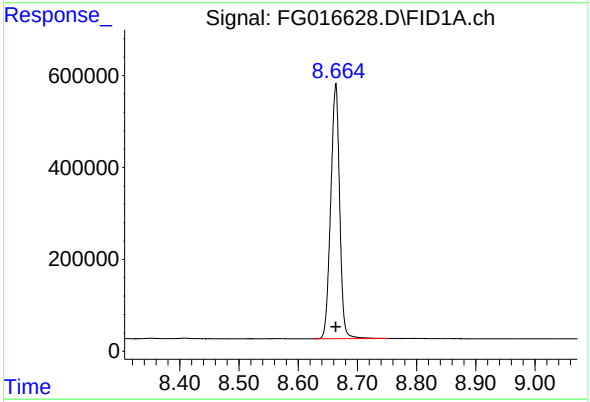
R.T.: 6.824 min
Delta R.T.: 0.000 min
Response: 5771062
Conc: 50.39 ug/ml



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

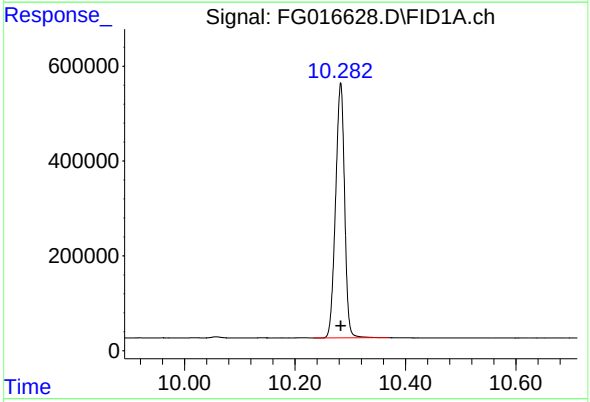
R.T.: 7.463 min
Delta R.T.: 0.000 min
Response: 6042738
Conc: 50.78 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



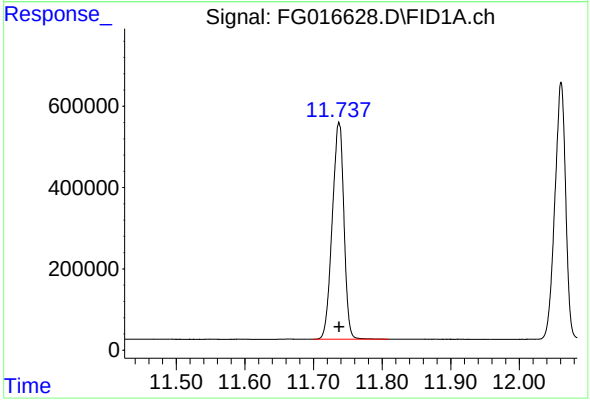
#6 n-Tetradecane (C14)

R.T.: 8.664 min
Delta R.T.: 0.000 min
Response: 5809256
Conc: 50.25 ug/ml



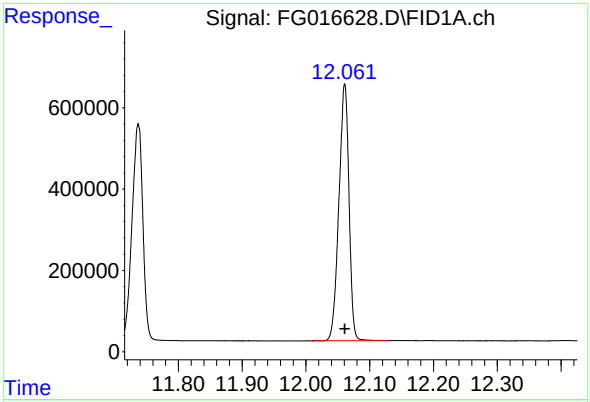
#7 n-Hexadecane (C16)

R.T.: 10.283 min
Delta R.T.: 0.000 min
Response: 6089163
Conc: 50.10 ug/ml



#8 n-Octadecane (C18)

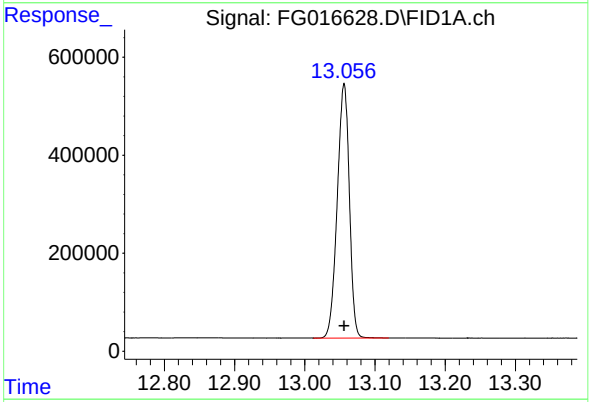
R.T.: 11.737 min
Delta R.T.: 0.000 min
Response: 6296624
Conc: 49.96 ug/ml



#9 ortho-Terphenyl (SURR)

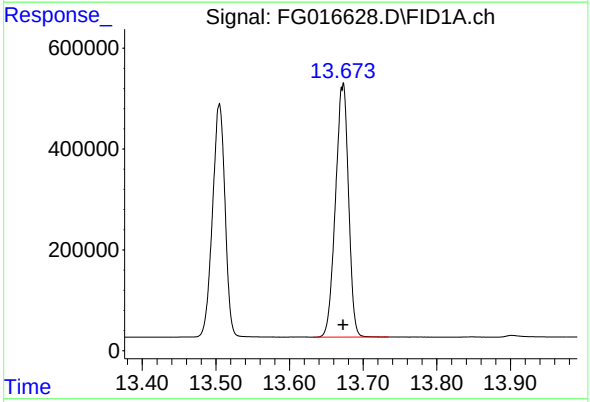
R.T.: 12.061 min
Delta R.T.: 0.000 min
Response: 6928695
Conc: 50.17 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



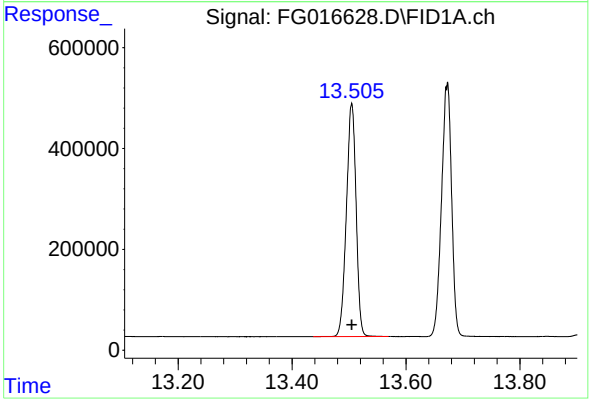
#10 n-Eicosane (C20)

R.T.: 13.056 min
Delta R.T.: 0.000 min
Response: 6215117
Conc: 49.98 ug/ml



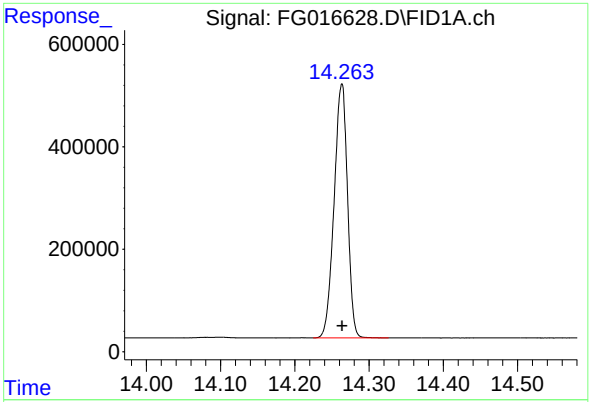
#11 n-Heneicosane (C21)

R.T.: 13.673 min
Delta R.T.: 0.000 min
Response: 6178436
Conc: 50.01 ug/ml



#12 1-chlorooctadecane (SURR)

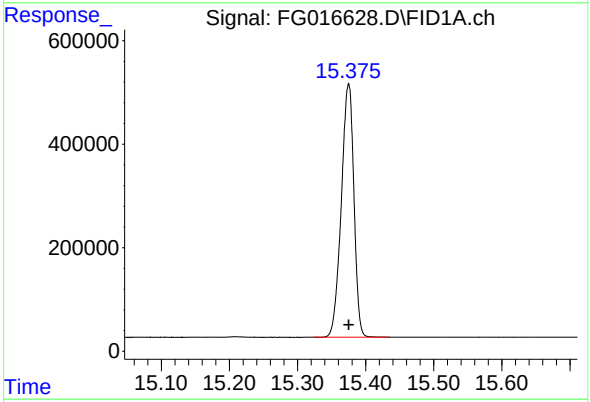
R.T.: 13.505 min
Delta R.T.: 0.000 min
Response: 5469032
Conc: 50.09 ug/ml



#13 n-Docosane (C22)

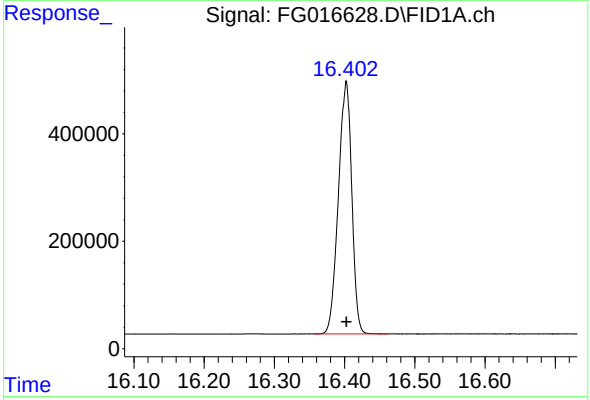
R.T.: 14.263 min
Delta R.T.: 0.000 min
Response: 6212951
Conc: 50.02 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



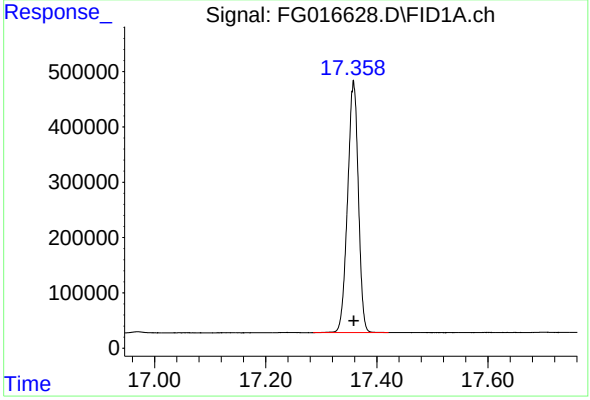
#14 n-Tetracosane (C24)

R.T.: 15.375 min
Delta R.T.: 0.000 min
Response: 6284923
Conc: 50.00 ug/ml



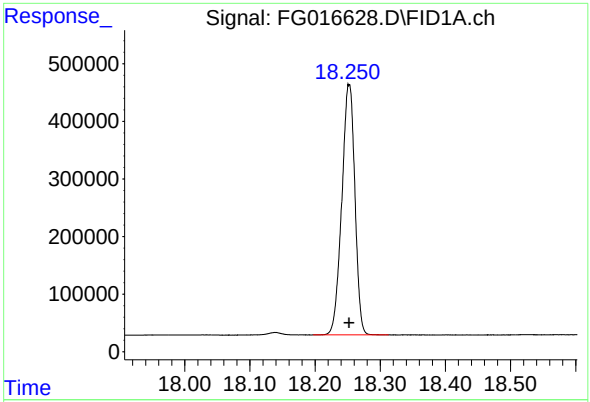
#15 n-Hexacosane (C26)

R.T.: 16.403 min
Delta R.T.: 0.000 min
Response: 6229377
Conc: 50.11 ug/ml



#16 n-Octacosane (C28)

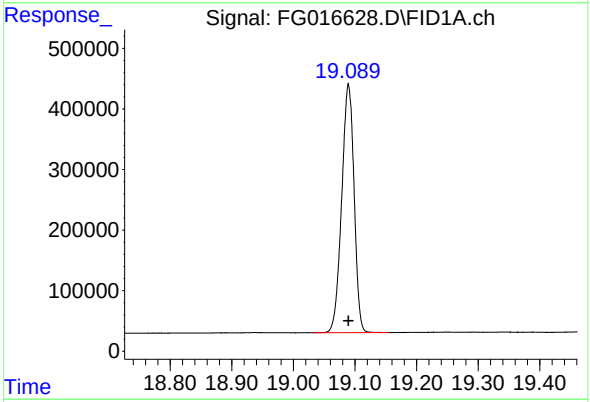
R.T.: 17.358 min
Delta R.T.: 0.000 min
Response: 6105504
Conc: 50.06 ug/ml



#17 n-Tricontane (C30)

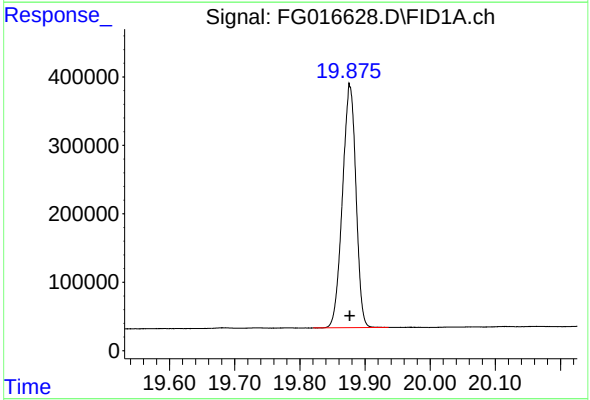
R.T.: 18.252 min
Delta R.T.: 0.000 min
Response: 6079765
Conc: 49.62 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



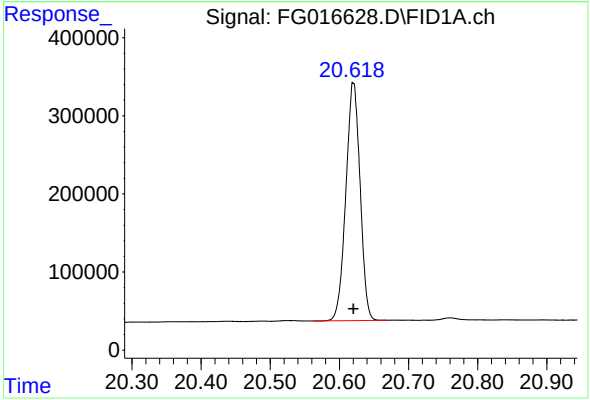
#18 n-Dotriacontane (C32)

R.T.: 19.089 min
Delta R.T.: 0.000 min
Response: 5728342
Conc: 49.27 ug/ml



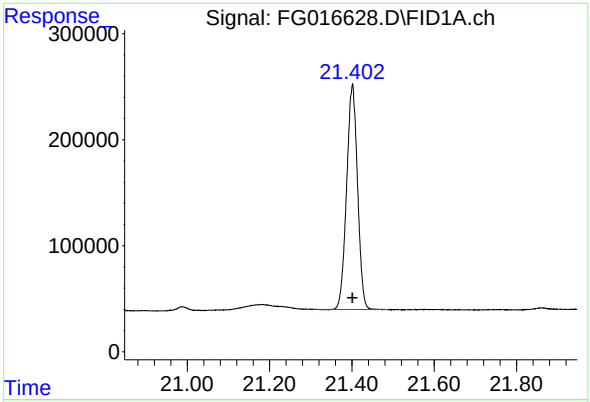
#19 n-Tetratriacontane (C34)

R.T.: 19.877 min
Delta R.T.: 0.000 min
Response: 5120162
Conc: 49.49 ug/ml



#20 n-Hexatriacontane (C36)

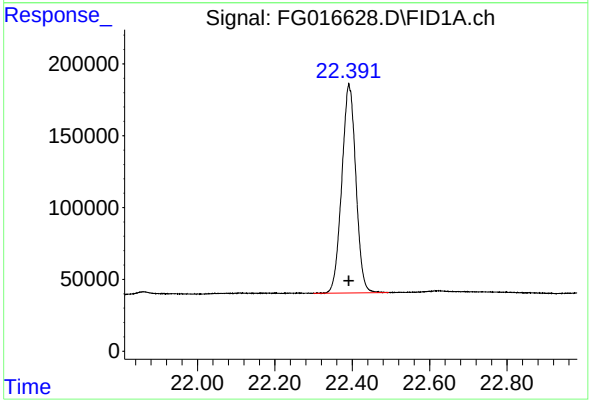
R.T.: 20.620 min
Delta R.T.: 0.000 min
Response: 4360749
Conc: 49.96 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.401 min
Delta R.T.: 0.000 min
Response: 3909499
Conc: 50.42 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.391 min
Delta R.T.: 0.000 min
Response: 3661493
Conc: 50.52 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016628.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:29
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.381	3.336	3.447	BB	564332	5528279	79.79%	4.392%
2	4.642	4.605	4.715	BB	569753	5652826	81.59%	4.491%
3	6.360	6.325	6.474	BB	625359	6200558	89.49%	4.926%
4	6.824	6.790	6.901	BB	582147	5771062	83.29%	4.585%
5	7.463	7.412	7.617	BB	565212	6042738	87.21%	4.801%
6	8.664	8.625	8.753	BB	555753	5809256	83.84%	4.615%
7	10.283	10.233	10.370	BB	537813	6089163	87.88%	4.837%
8	11.737	11.700	11.810	BB	533548	6296624	90.88%	5.002%
9	12.061	12.011	12.130	BB	631906	6928695	100.00%	5.504%
10	13.056	13.012	13.120	BB	519484	6215117	89.70%	4.938%
11	13.505	13.437	13.570	BB	461636	5469032	78.93%	4.345%
12	13.673	13.632	13.735	BB	502533	6178436	89.17%	4.908%
13	14.263	14.225	14.326	BB	496298	6212951	89.67%	4.936%
14	15.375	15.323	15.434	BB	490707	6284923	90.71%	4.993%
15	16.403	16.355	16.463	BB	470319	6229377	89.91%	4.949%
16	17.358	17.285	17.421	BB	455816	6105504	88.12%	4.850%
17	18.252	18.197	18.313	BB	433235	6079765	87.75%	4.830%
18	19.089	19.032	19.155	BB	410699	5728342	82.68%	4.551%
19	19.877	19.820	19.936	BB	351757	5120162	73.90%	4.068%
20	20.620	20.562	20.671	BB	303641	4360749	62.94%	3.464%
21	21.401	21.306	21.489	BB	212234	3909499	56.42%	3.106%
22	22.391	22.299	22.494	BB	145259	3661493	52.85%	2.909%
			Sum of corrected areas:			125874551		

Aliphatic EPH 092425.M Thu Sep 25 04:10:55 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016629.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:28:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 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)	12.056	2806722	20.000 ug/ml
Spiked Amount	50.000	Recovery	= 40.00%	
12)	S 1-chlorooctadecane (S...	13.501	2226973	20.000 ug/ml
Spiked Amount	50.000	Recovery	= 40.00%	
	Target Compounds			
1)	T n-Nonane (C9)	3.379	2218763	20.000 ug/ml
2)	T n-Decane (C10)	4.640	2266374	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	6.358	2443325	20.000 ug/ml
4)	T n-Dodecane (C12)	6.821	2301495	20.000 ug/ml
5)	T A~2-methylnaphthalene...	7.461	2336645	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.661	2333891	20.000 ug/ml
7)	T n-Hexadecane (C16)	10.280	2465707	20.000 ug/ml
8)	T n-Octadecane (C18)	11.734	2576996	20.000 ug/ml
10)	T n-Eicosane (C20)	13.053	2549373	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.669	2531414	20.000 ug/ml
13)	T n-Docosane (C22)	14.260	2549976	20.000 ug/ml
14)	T n-Tetracosane (C24)	15.370	2589634	20.000 ug/ml
15)	T n-Hexacosane (C26)	16.399	2560143	20.000 ug/ml
16)	T n-Octacosane (C28)	17.355	2528827	20.000 ug/ml
17)	T n-Tricontane (C30)	18.248	2597221	20.000 ug/ml
18)	T n-Dotriacontane (C32)	19.086	2512493	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.875	2214195	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	20.619	1825466	20.000 ug/ml
21)	T n-Octatriacontane (C38)	21.398	1581316	20.000 ug/ml
22)	T n-Tetracontane (C40)	22.390	1465265	20.000 ug/ml

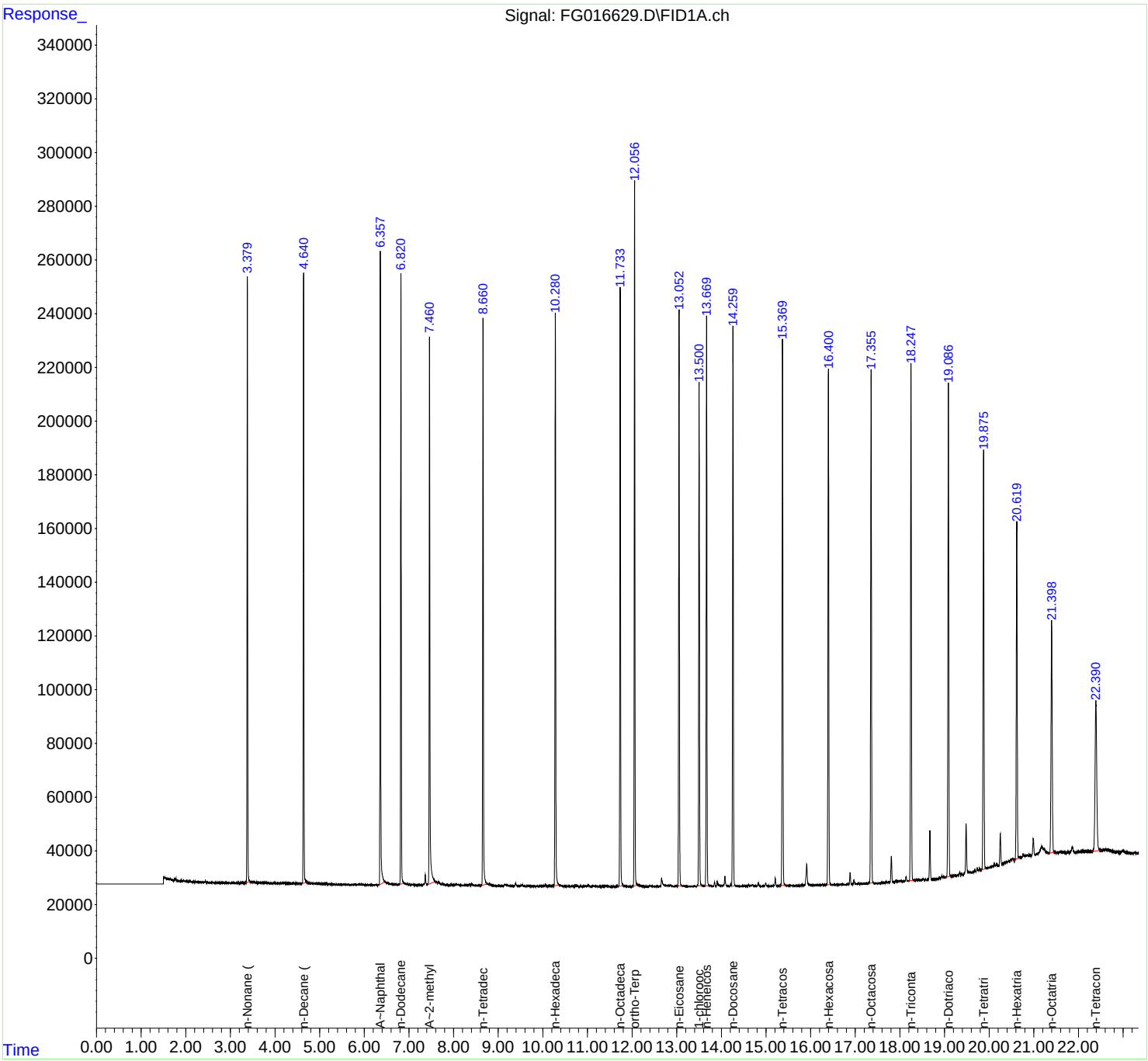
(f)=RT Delta > 1/2 Window (m)=manual int.

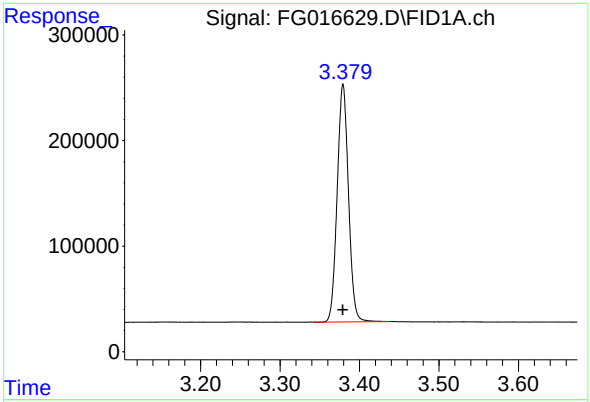
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016629.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 15:28:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:28:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

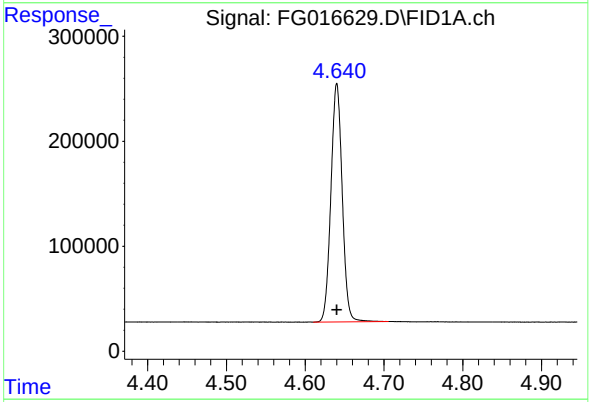




#1 n-Nonane (C9)

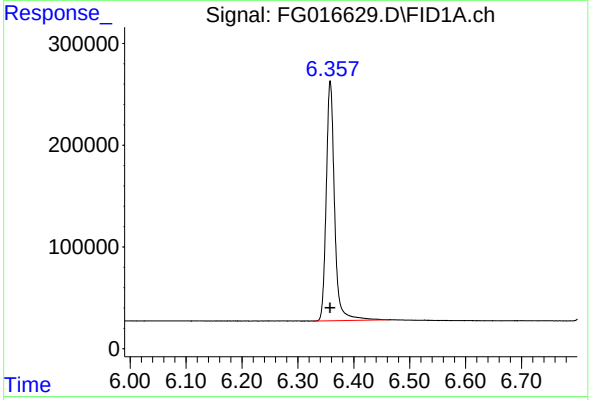
R.T.: 3.379 min
Delta R.T.: 0.000 min
Response: 2218763
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



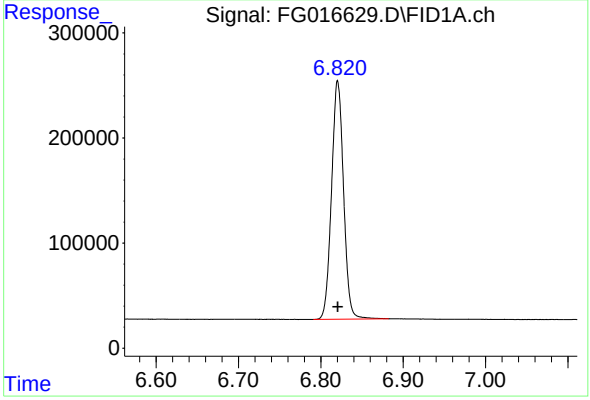
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 2266374
Conc: 20.00 ug/ml



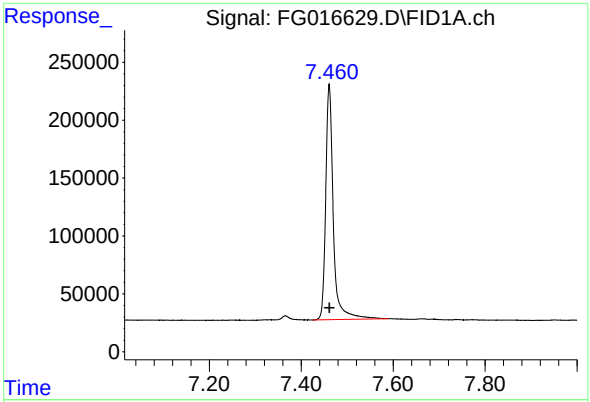
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: 0.000 min
Response: 2443325
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

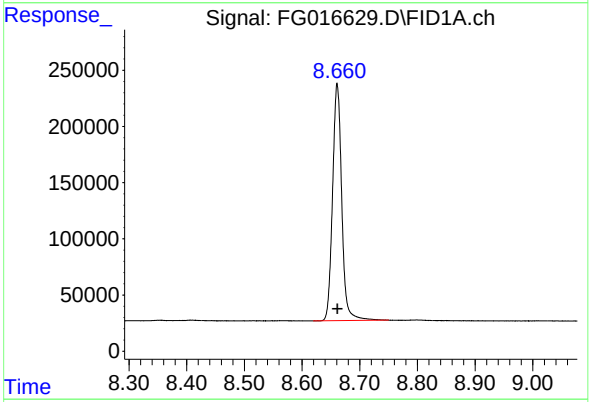
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 2301495
Conc: 20.00 ug/ml



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

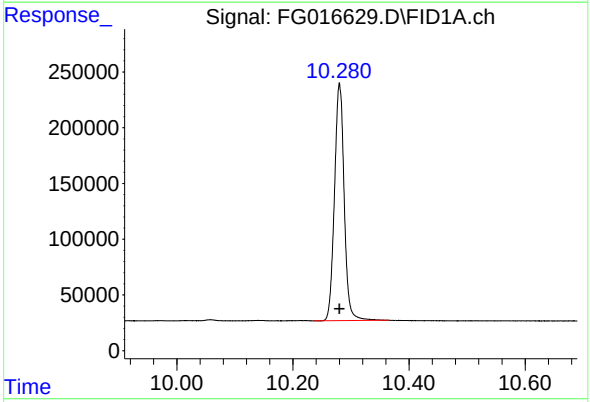
R.T.: 7.461 min
Delta R.T.: 0.000 min
Response: 2336645
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



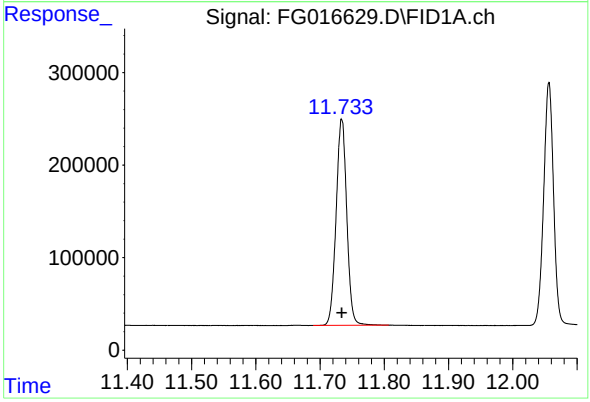
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 2333891
Conc: 20.00 ug/ml



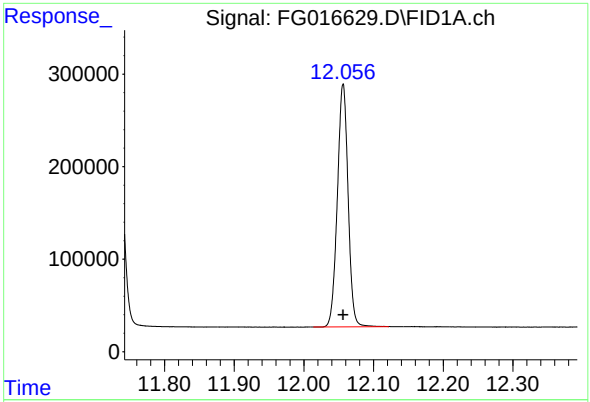
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 2465707
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

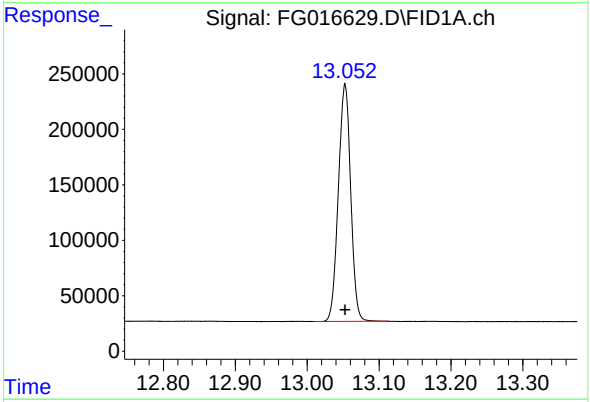
R.T.: 11.734 min
Delta R.T.: 0.000 min
Response: 2576996
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

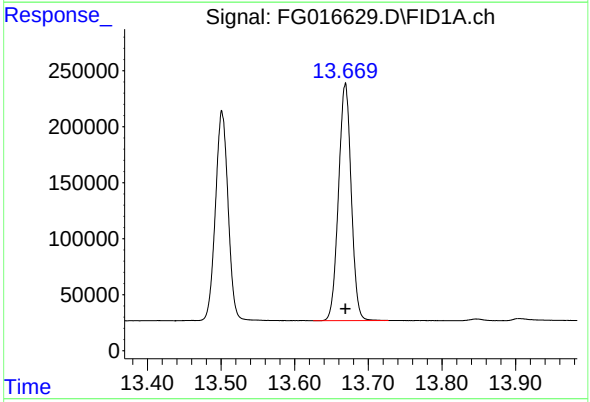
R.T.: 12.056 min
Delta R.T.: 0.000 min
Response: 2806722
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



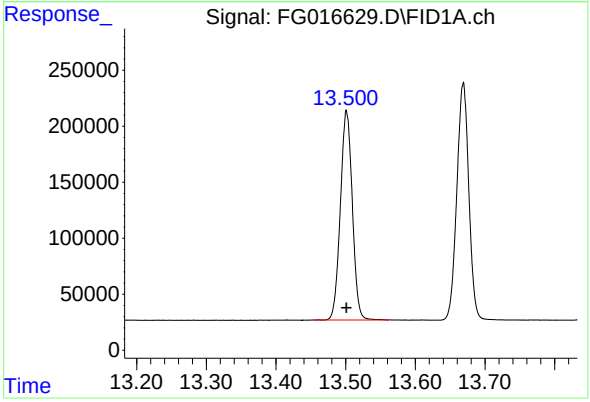
#10 n-Eicosane (C20)

R.T.: 13.053 min
Delta R.T.: 0.000 min
Response: 2549373
Conc: 20.00 ug/ml



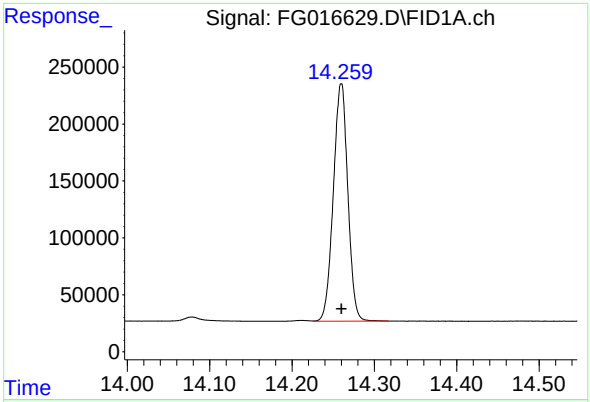
#11 n-Heneicosane (C21)

R.T.: 13.669 min
Delta R.T.: 0.000 min
Response: 2531414
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

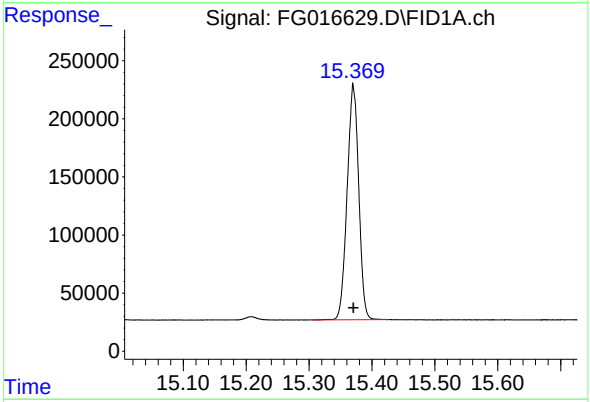
R.T.: 13.501 min
Delta R.T.: 0.000 min
Response: 2226973
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

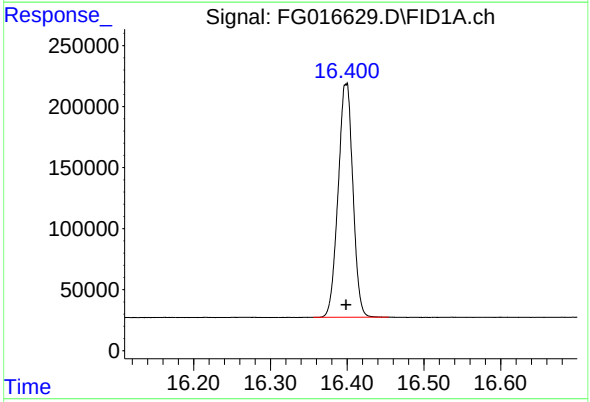
R.T.: 14.260 min
Delta R.T.: 0.000 min
Response: 2549976
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



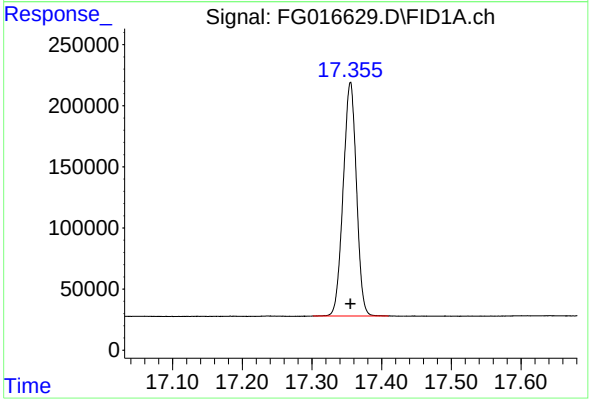
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 2589634
Conc: 20.00 ug/ml



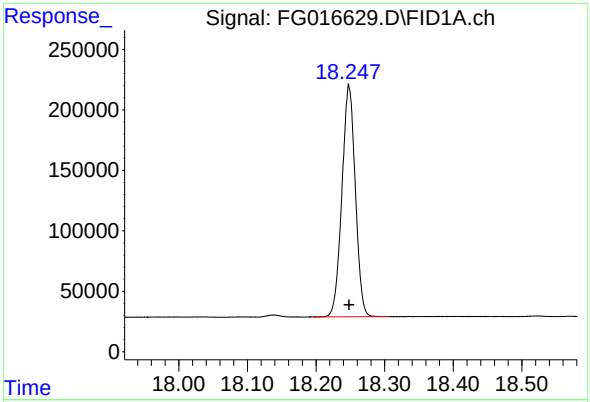
#15 n-Hexacosane (C26)

R.T.: 16.399 min
Delta R.T.: 0.000 min
Response: 2560143
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

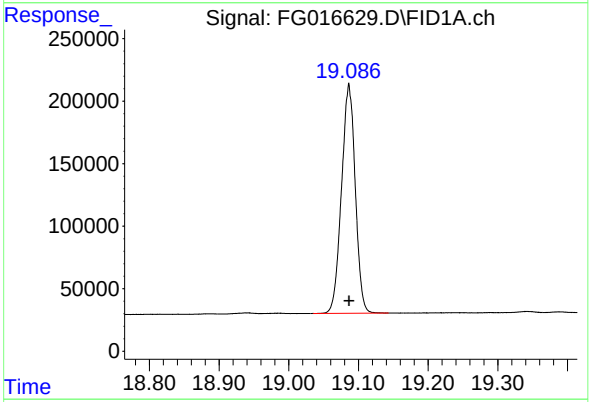
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 2528827
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

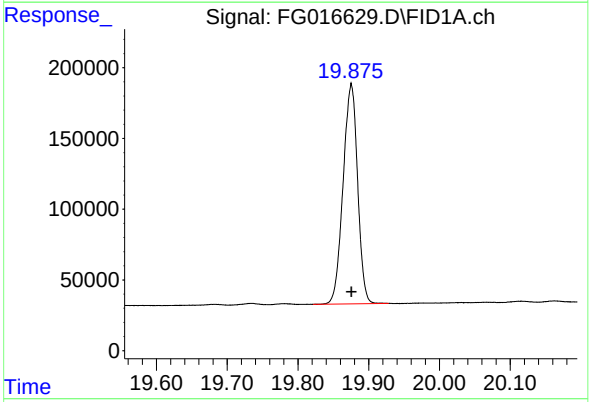
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 2597221
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



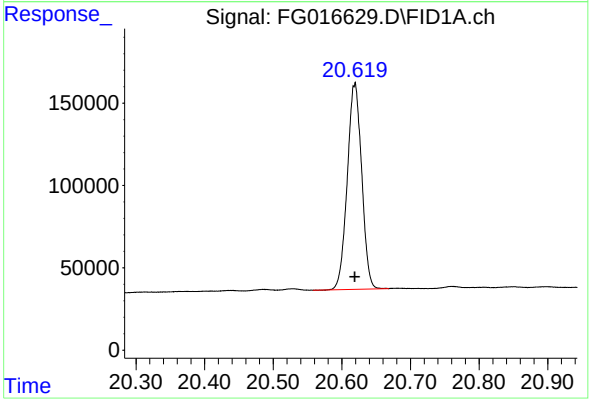
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 2512493
Conc: 20.00 ug/ml



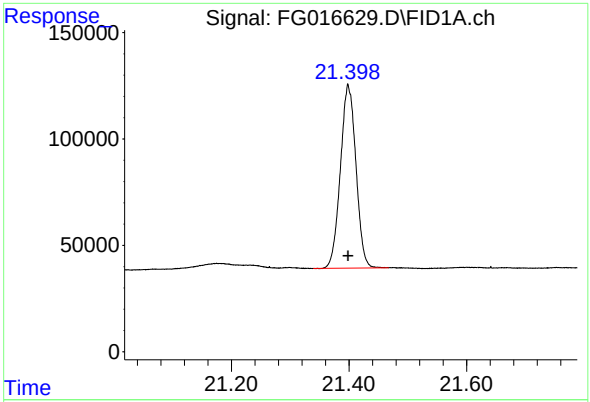
#19 n-Tetratriacontane (C34)

R.T.: 19.875 min
Delta R.T.: 0.000 min
Response: 2214195
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

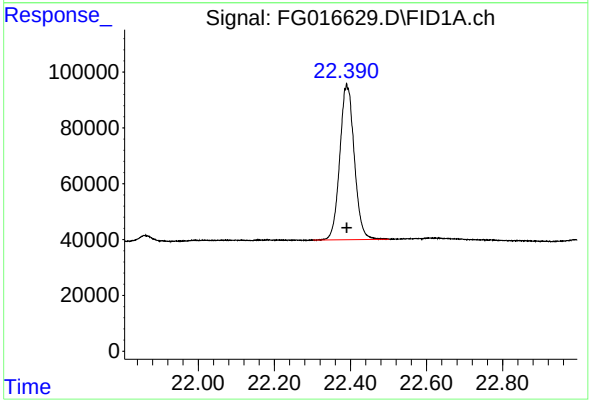
R.T.: 20.619 min
Delta R.T.: 0.000 min
Response: 1825466
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.398 min
Delta R.T.: 0.000 min
Response: 1581316
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.390 min
Delta R.T.: 0.000 min
Response: 1465265
Conc: 20.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016629.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 14:59
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.379	3.342	3.437	BB	225271	2218763	79.05%	4.310%
2	4.640	4.610	4.706	BB	227174	2266374	80.75%	4.402%
3	6.358	6.328	6.463	BB	235136	2443325	87.05%	4.746%
4	6.821	6.791	6.883	BB	226504	2301495	82.00%	4.470%
5	7.461	7.426	7.590	BB	203398	2336645	83.25%	4.539%
6	8.661	8.619	8.750	BB	210694	2333891	83.15%	4.533%
7	10.280	10.235	10.365	BB	212983	2465707	87.85%	4.789%
8	11.734	11.689	11.807	BB	222071	2576996	91.82%	5.006%
9	12.056	12.013	12.122	BB	262836	2806722	100.00%	5.452%
10	13.053	13.008	13.113	BB	214356	2549373	90.83%	4.952%
11	13.501	13.453	13.562	BB	185961	2226973	79.34%	4.326%
12	13.669	13.625	13.728	BB	212286	2531414	90.19%	4.917%
13	14.260	14.226	14.318	VB	208440	2549976	90.85%	4.953%
14	15.370	15.307	15.427	BB	202205	2589634	92.27%	5.030%
15	16.399	16.356	16.454	BB	190973	2560143	91.21%	4.973%
16	17.355	17.302	17.410	BB	191185	2528827	90.10%	4.912%
17	18.248	18.196	18.306	BB	190251	2597221	92.54%	5.045%
18	19.086	19.035	19.143	BB	183865	2512493	89.52%	4.880%
19	19.875	19.822	19.928	BB	155357	2214195	78.89%	4.301%
20	20.619	20.558	20.668	BB	125076	1825466	65.04%	3.546%
21	21.398	21.339	21.468	BB	86408	1581316	56.34%	3.072%
22	22.390	22.302	22.500	BB	55900	1465265	52.21%	2.846%
			Sum of corrected areas:			51482215		

Aliphatic EPH 092425.M Thu Sep 25 04:15:33 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016630.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 15:40:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:40:29 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)	12.055	1463116	10.439 ug/ml
Spiked Amount 50.000		Recovery =	20.88%
12) S 1-chlorooctadecane (S...	13.502	1157762	10.447 ug/ml
Spiked Amount 50.000		Recovery =	20.89%
Target Compounds			
1) T n-Nonane (C9)	3.380	1162484	10.424 ug/ml
2) T n-Decane (C10)	4.640	1184621	10.401 ug/ml
3) T A~Naphthalene (C11.7)	6.358	1244243	10.100 ug/ml
4) T n-Dodecane (C12)	6.821	1196108	10.329 ug/ml
5) T A~2-methylnaphthalene...	7.461	1142771	9.700 ug/ml
6) T n-Tetradecane (C14)	8.661	1199975	10.282 ug/ml
7) T n-Hexadecane (C16)	10.280	1267524	10.318 ug/ml
8) T n-Octadecane (C18)	11.733	1333319	10.428 ug/ml
10) T n-Eicosane (C20)	13.052	1328269	10.503 ug/ml
11) T n-Heneicosane (C21)	13.668	1317314	10.489 ug/ml
13) T n-Docosane (C22)	14.259	1321673	10.472 ug/ml
14) T n-Tetracosane (C24)	15.370	1336986	10.470 ug/ml
15) T n-Hexacosane (C26)	16.399	1325441	10.488 ug/ml
16) T n-Octacosane (C28)	17.354	1301210	10.494 ug/ml
17) T n-Tricontane (C30)	18.247	1309761	10.509 ug/ml
18) T n-Dotriacontane (C32)	19.085	1246476	10.532 ug/ml
19) T n-Tetratriacontane (C34)	19.873	1114409	10.568 ug/ml
20) T n-Hexatriacontane (C36)	20.618	950327	10.651 ug/ml
21) T n-Octatriacontane (C38)	21.400	864915	10.841 ug/ml
22) T n-Tetracontane (C40)	22.393	820694	10.960 ug/ml

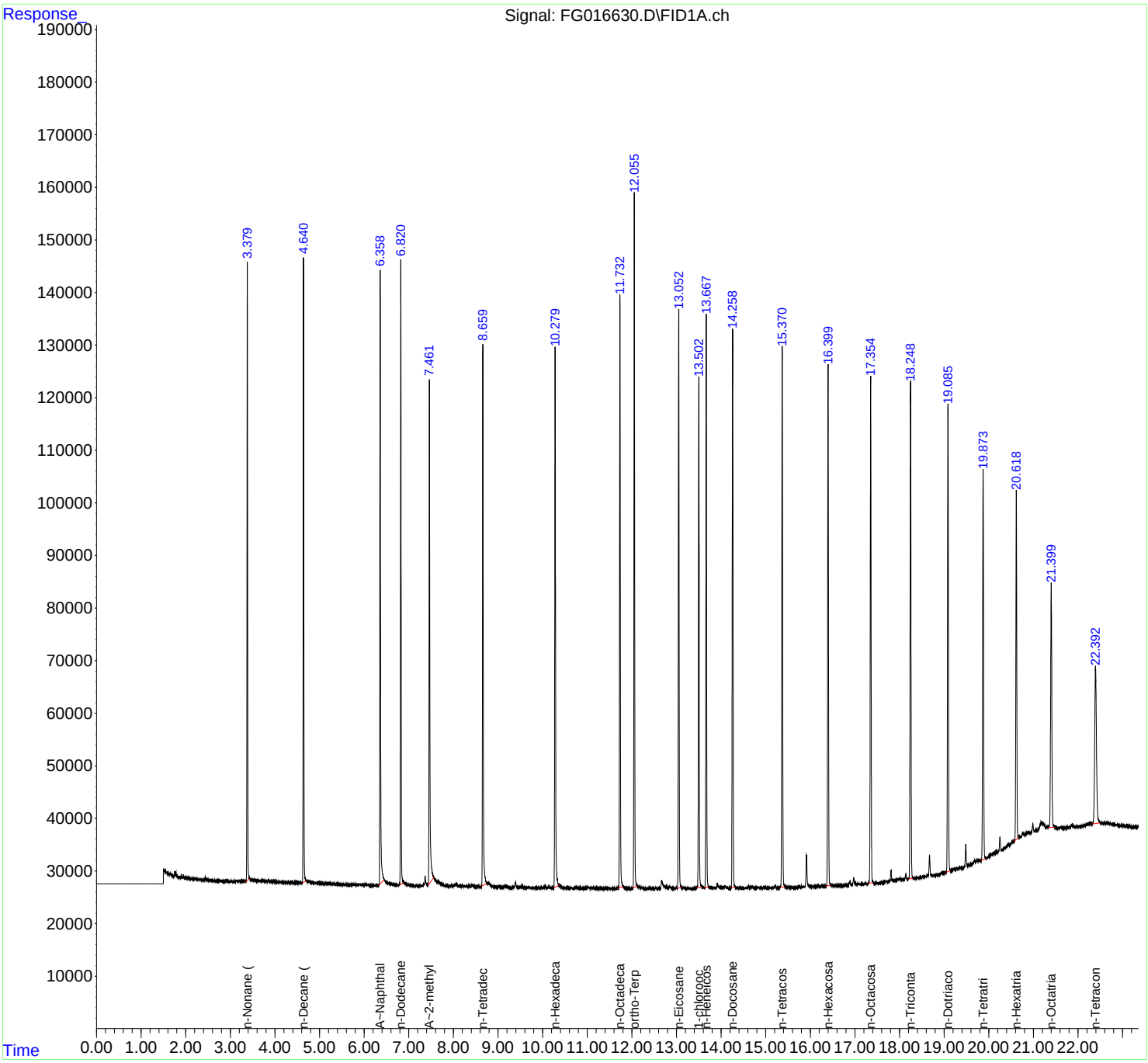
(f)=RT Delta > 1/2 Window (m)=manual int.

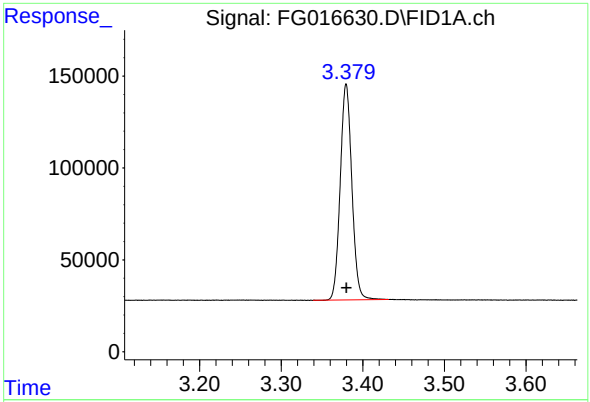
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016630.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:28
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 15:40:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 15:40:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

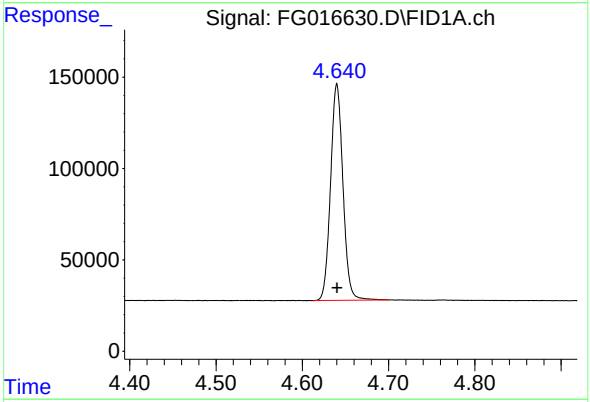




#1 n-Nonane (C9)

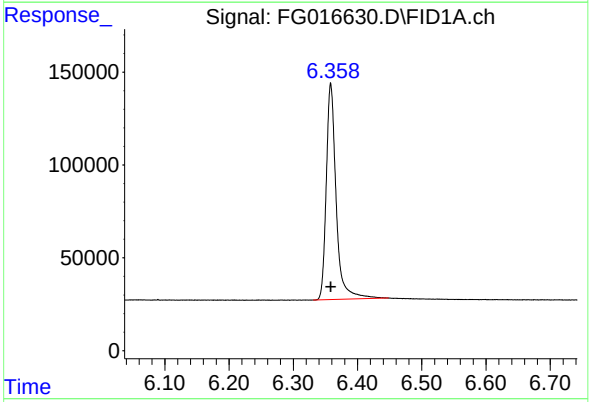
R.T.: 3.380 min
Delta R.T.: 0.000 min
Response: 1162484
Conc: 10.42 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



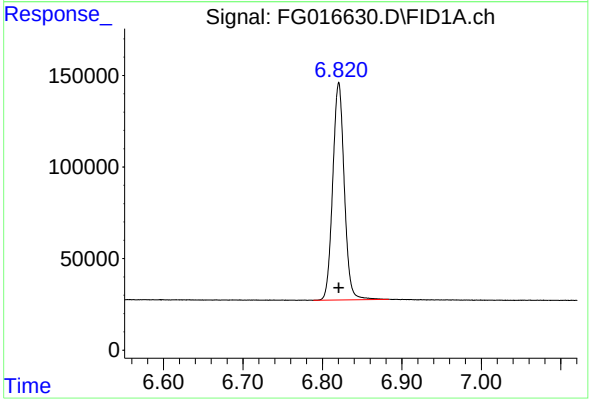
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 1184621
Conc: 10.40 ug/ml



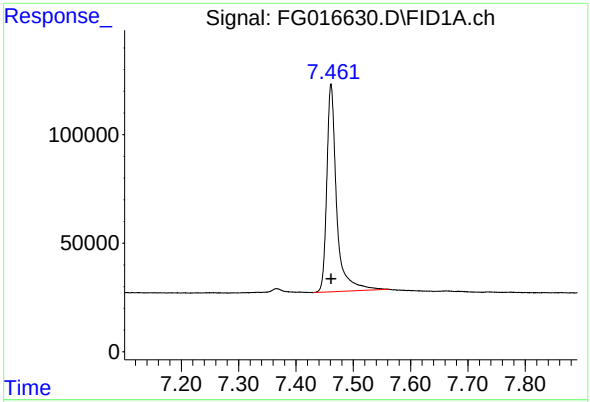
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: 0.000 min
Response: 1244243
Conc: 10.10 ug/ml



#4 n-Dodecane (C12)

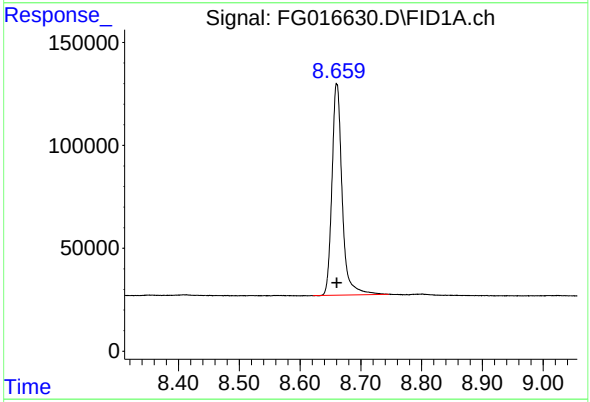
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 1196108
Conc: 10.33 ug/ml



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

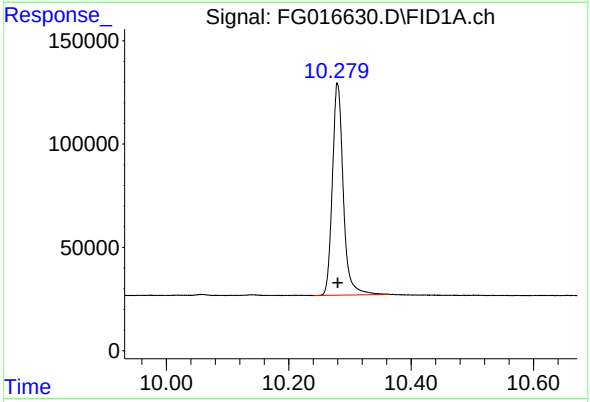
R.T.: 7.461 min
Delta R.T.: 0.000 min
Response: 1142771
Conc: 9.70 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



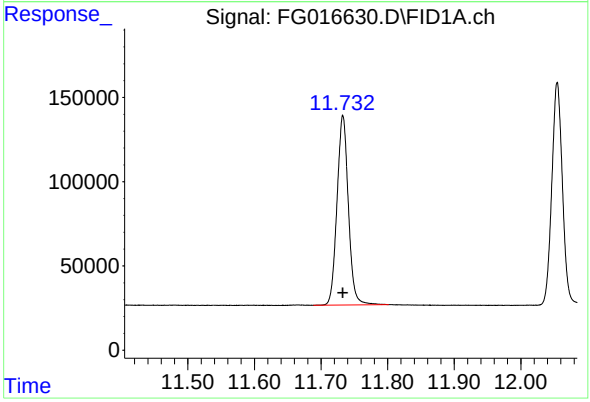
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 1199975
Conc: 10.28 ug/ml



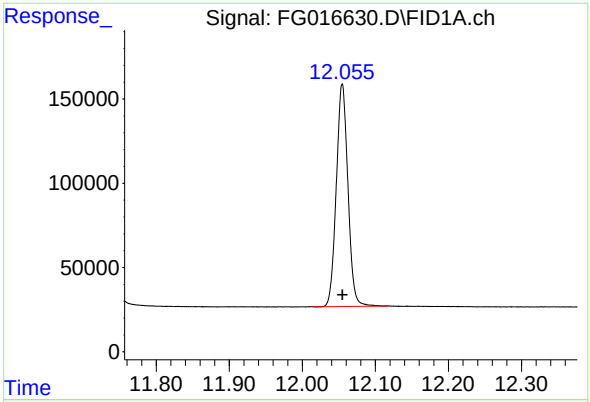
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 1267524
Conc: 10.32 ug/ml



#8 n-Octadecane (C18)

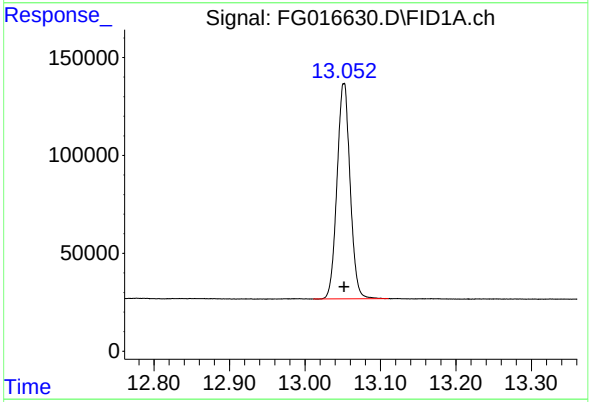
R.T.: 11.733 min
Delta R.T.: 0.000 min
Response: 1333319
Conc: 10.43 ug/ml



#9 ortho-Terphenyl (SURR)

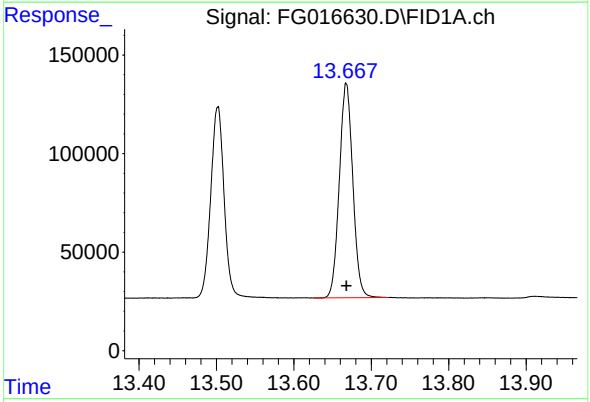
R.T.: 12.055 min
Delta R.T.: 0.000 min
Response: 1463116
Conc: 10.44 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



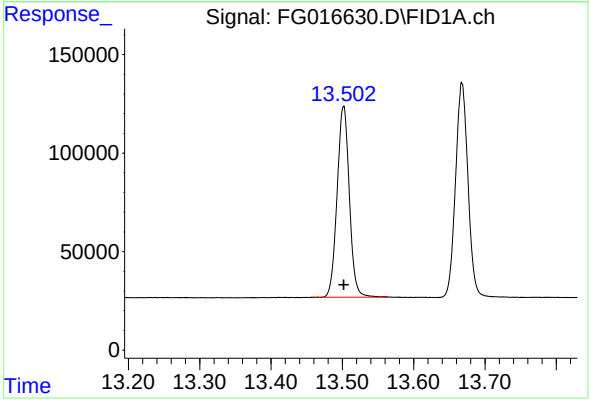
#10 n-Eicosane (C20)

R.T.: 13.052 min
Delta R.T.: 0.000 min
Response: 1328269
Conc: 10.50 ug/ml



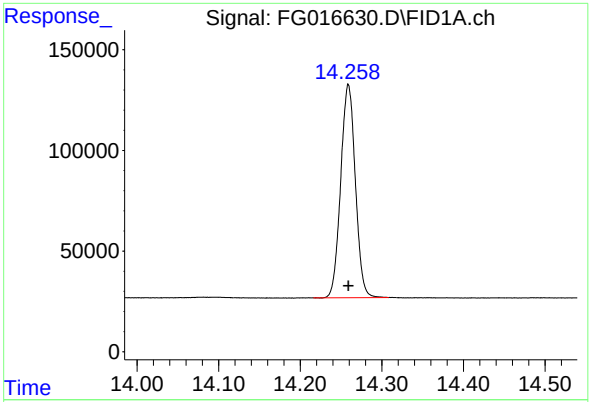
#11 n-Heneicosane (C21)

R.T.: 13.668 min
Delta R.T.: 0.000 min
Response: 1317314
Conc: 10.49 ug/ml



#12 1-chlorooctadecane (SURR)

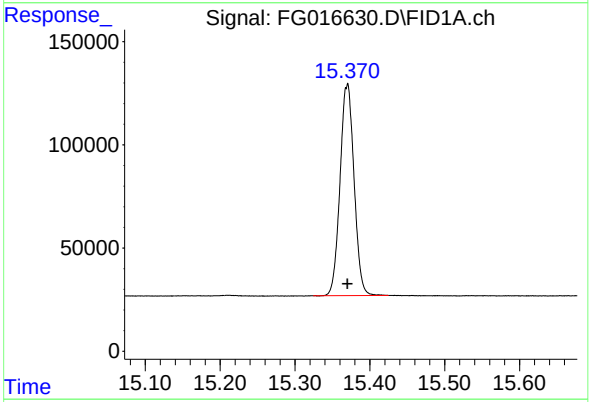
R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 1157762
Conc: 10.45 ug/ml



#13 n-Docosane (C22)

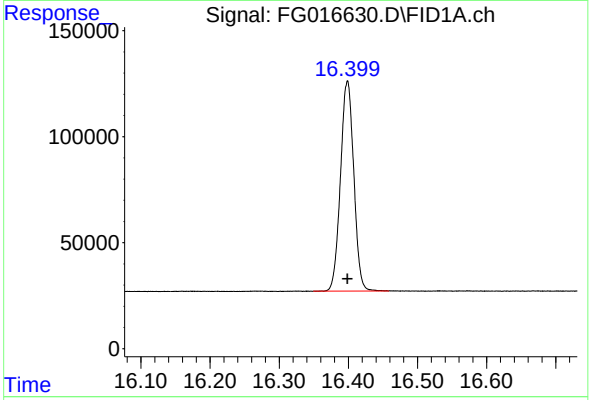
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 1321673
Conc: 10.47 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



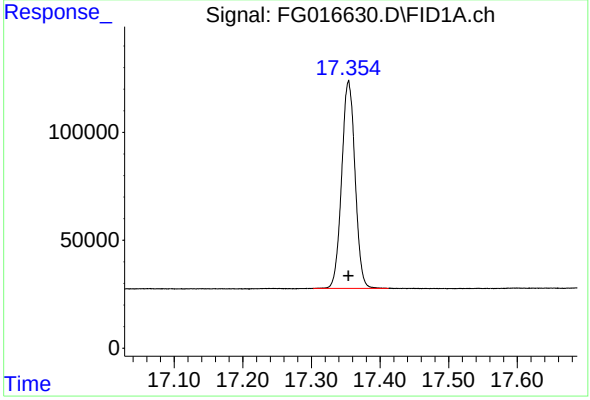
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 1336986
Conc: 10.47 ug/ml



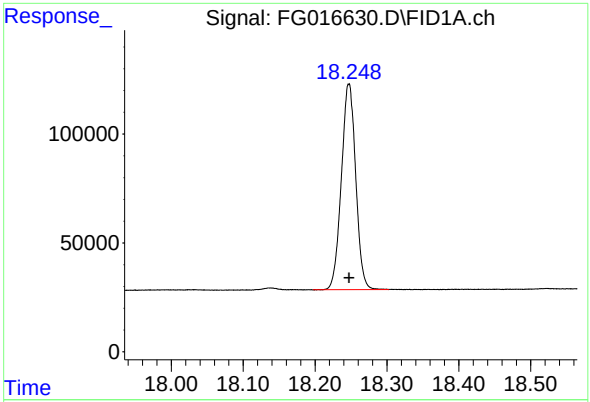
#15 n-Hexacosane (C26)

R.T.: 16.399 min
Delta R.T.: 0.000 min
Response: 1325441
Conc: 10.49 ug/ml



#16 n-Octacosane (C28)

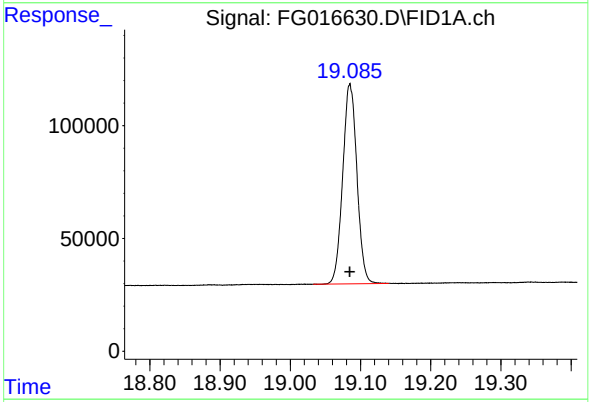
R.T.: 17.354 min
Delta R.T.: 0.000 min
Response: 1301210
Conc: 10.49 ug/ml



#17 n-Tricontane (C30)

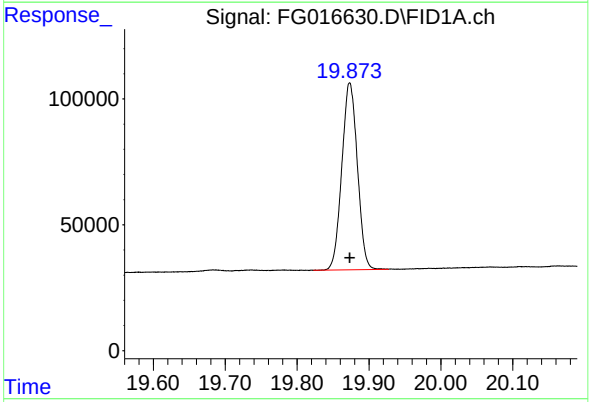
R.T.: 18.247 min
Delta R.T.: 0.000 min
Response: 1309761
Conc: 10.51 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



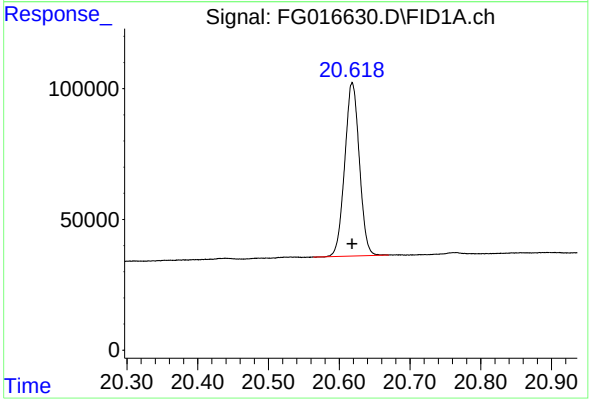
#18 n-Dotriacontane (C32)

R.T.: 19.085 min
Delta R.T.: 0.000 min
Response: 1246476
Conc: 10.53 ug/ml



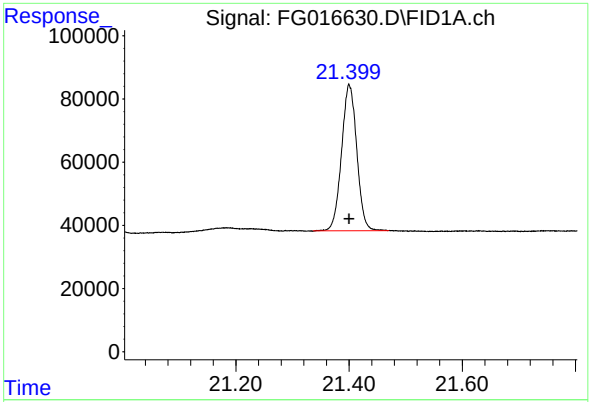
#19 n-Tetratriacontane (C34)

R.T.: 19.873 min
Delta R.T.: 0.000 min
Response: 1114409
Conc: 10.57 ug/ml



#20 n-Hexatriacontane (C36)

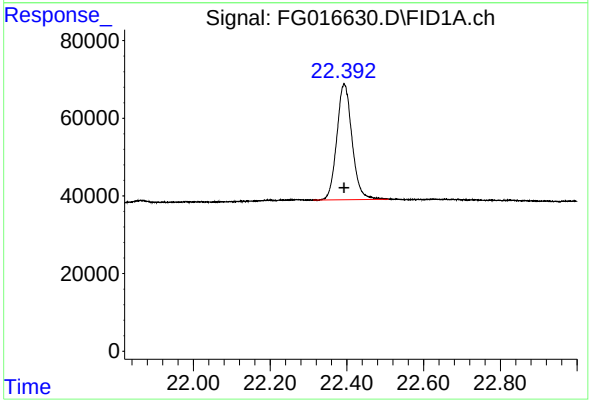
R.T.: 20.618 min
Delta R.T.: 0.000 min
Response: 950327
Conc: 10.65 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.400 min
Delta R.T.: 0.000 min
Response: 864915
Conc: 10.84 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.393 min
Delta R.T.: 0.000 min
Response: 820694
Conc: 10.96 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016630.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:28
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.380	3.339	3.432	BB	117640	1162484	79.45%	4.372%
2	4.640	4.612	4.700	BB	118693	1184621	80.97%	4.455%
3	6.358	6.331	6.448	BB	116559	1244243	85.04%	4.679%
4	6.821	6.788	6.883	BB	118846	1196108	81.75%	4.498%
5	7.461	7.430	7.562	BB	95886	1142771	78.11%	4.298%
6	8.661	8.622	8.746	BB	102358	1199975	82.02%	4.513%
7	10.280	10.240	10.363	BB	102103	1267524	86.63%	4.767%
8	11.733	11.688	11.802	BB	112656	1333319	91.13%	5.014%
9	12.055	12.015	12.118	BB	132258	1463116	100.00%	5.503%
10	13.052	13.011	13.111	BB	109729	1328269	90.78%	4.995%
11	13.502	13.459	13.565	BB	96712	1157762	79.13%	4.354%
12	13.668	13.625	13.723	BB	108749	1317314	90.03%	4.954%
13	14.259	14.216	14.308	BB	105833	1321673	90.33%	4.971%
14	15.370	15.324	15.425	BB	102437	1336986	91.38%	5.028%
15	16.399	16.349	16.458	BB	99306	1325441	90.59%	4.985%
16	17.354	17.303	17.413	BB	96249	1301210	88.93%	4.894%
17	18.247	18.198	18.303	BB	94280	1309761	89.52%	4.926%
18	19.085	19.033	19.140	BB	88746	1246476	85.19%	4.688%
19	19.873	19.823	19.928	BB	74281	1114409	76.17%	4.191%
20	20.618	20.563	20.670	BB	66387	950327	64.95%	3.574%
21	21.400	21.337	21.470	BB	46353	864915	59.11%	3.253%
22	22.393	22.312	22.509	BB	29796	820694	56.09%	3.087%
			Sum of corrected areas:			26589398		

Aliphatic EPH 092425.M Thu Sep 25 04:15:50 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016631.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:20:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:19:39 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)	12.055	762580	5.346 ug/ml
Spiked Amount	50.000		Recovery =	10.69%
12) S	1-chlorooctadecane (S...	13.502	605295	5.363 ug/ml
Spiked Amount	50.000		Recovery =	10.73%
	Target Compounds			
1) T	n-Nonane (C9)	3.379	606671	5.346 ug/ml
2) T	n-Decane (C10)	4.640	613414	5.304 ug/ml
3) T	A~Naphthalene (C11.7)	6.359	618463	5.016 ug/ml
4) T	n-Dodecane (C12)	6.821	618459	5.269 ug/ml
5) T	A~2-methylnaphthalene...	7.462	535605	4.630 ug/ml
6) T	n-Tetradecane (C14)	8.661	598970	5.105 ug/ml
7) T	n-Hexadecane (C16)	10.280	640765	5.171 ug/ml
8) T	n-Octadecane (C18)	11.733	697381	5.357 ug/ml
10) T	n-Eicosane (C20)	13.051	702619	5.435 ug/ml
11) T	n-Heneicosane (C21)	13.668	698486	5.439 ug/ml
13) T	n-Docosane (C22)	14.259	699503	5.425 ug/ml
14) T	n-Tetracosane (C24)	15.370	706536	5.417 ug/ml
15) T	n-Hexacosane (C26)	16.398	699770	5.421 ug/ml
16) T	n-Octacosane (C28)	17.355	692578	5.457 ug/ml
17) T	n-Tricontane (C30)	18.248	706248	5.520 ug/ml
18) T	n-Dotriacontane (C32)	19.086	694705	5.672 ug/ml
19) T	n-Tetratriacontane (C34)	19.874	606787	5.586 ug/ml
20) T	n-Hexatriacontane (C36)	20.619	487239	5.362 ug/ml
21) T	n-Octatriacontane (C38)	21.401	440470	5.408 ug/ml
22) T	n-Tetracontane (C40)	22.394	430934	5.586 ug/ml

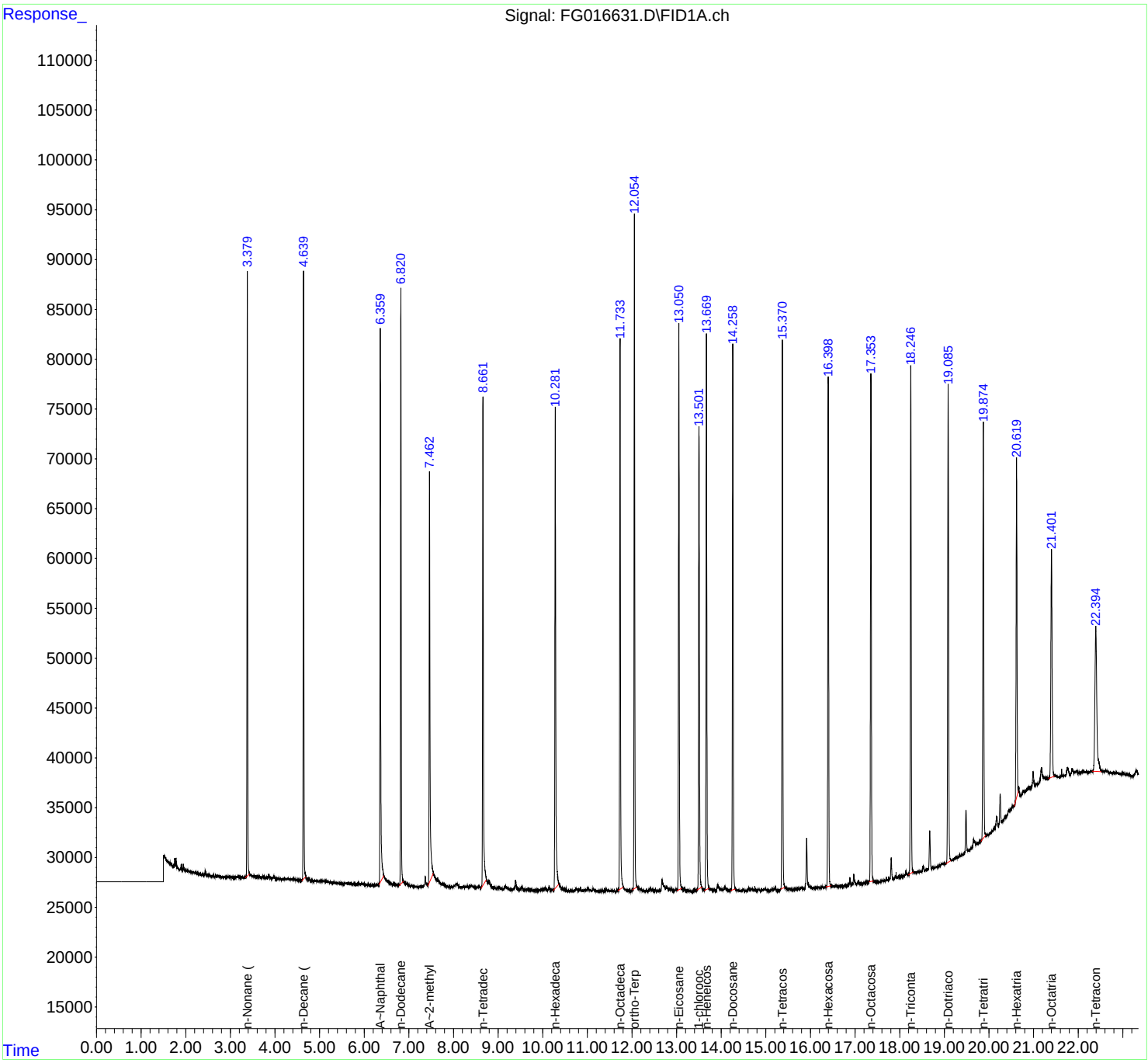
(f)=RT Delta > 1/2 Window (m)=manual int.

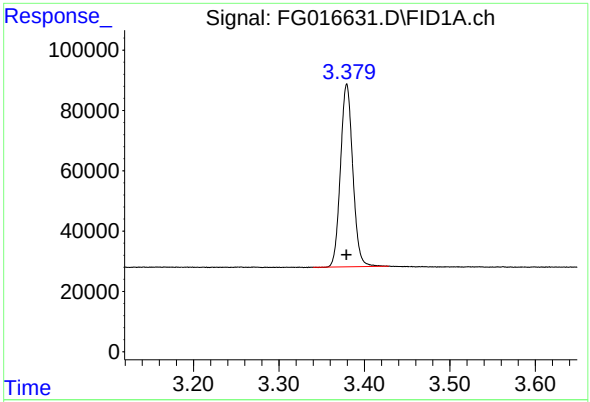
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016631.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 16:20:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:19:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

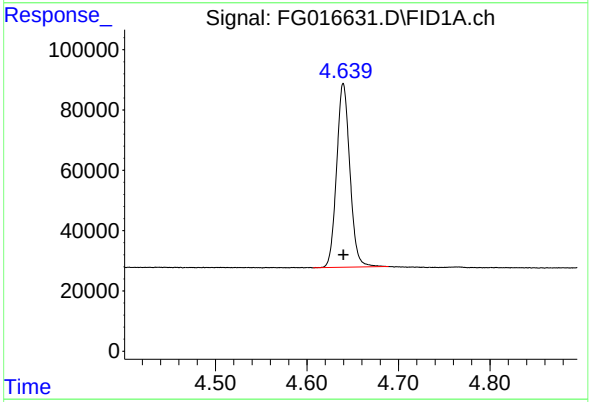




#1 n-Nonane (C9)

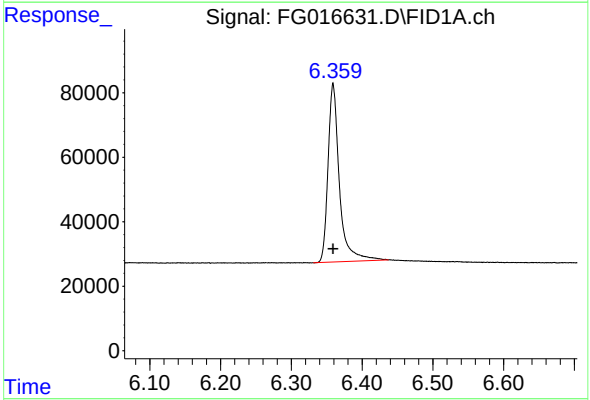
R.T.: 3.379 min
Delta R.T.: 0.000 min
Response: 606671
Conc: 5.35 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



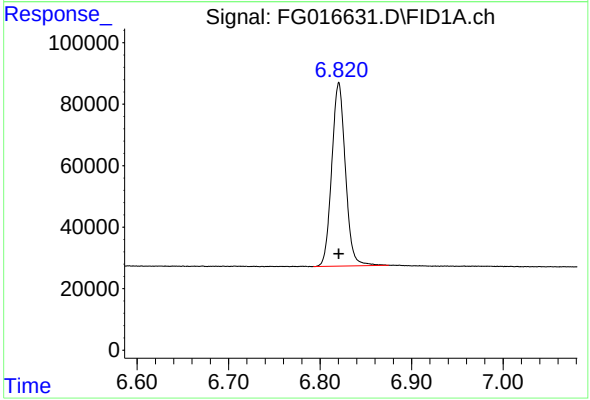
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 613414
Conc: 5.30 ug/ml



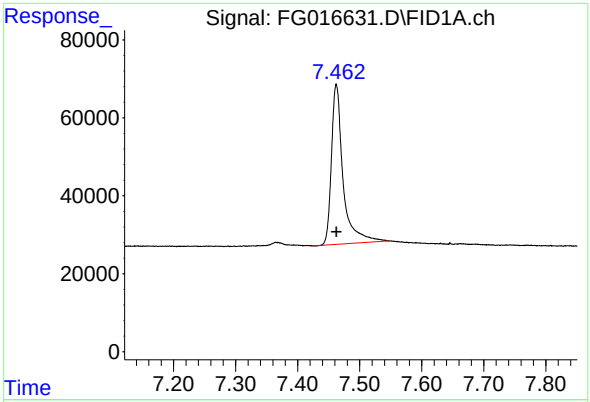
#3 A~Naphthalene (C11.7)

R.T.: 6.359 min
Delta R.T.: 0.000 min
Response: 618463
Conc: 5.02 ug/ml



#4 n-Dodecane (C12)

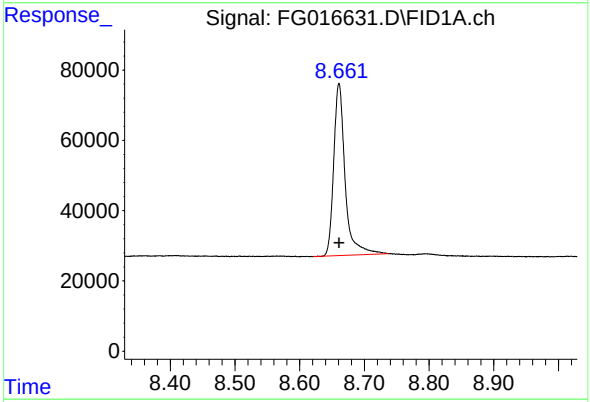
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 618459
Conc: 5.27 ug/ml



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

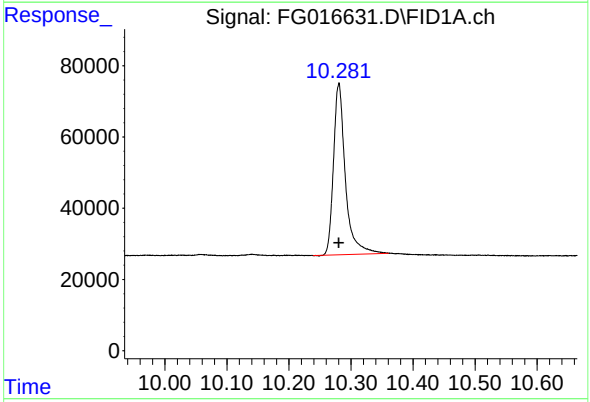
R.T.: 7.462 min
Delta R.T.: 0.000 min
Response: 535605
Conc: 4.63 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



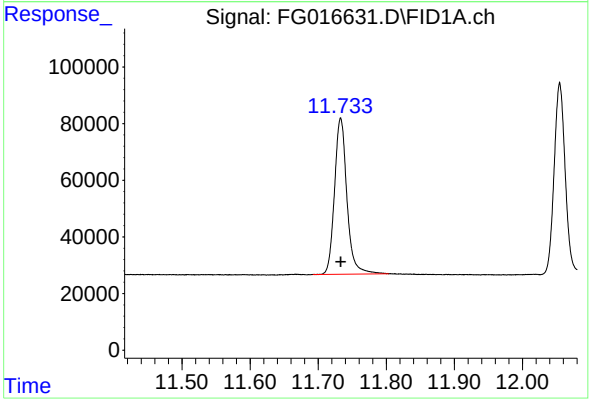
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 598970
Conc: 5.11 ug/ml



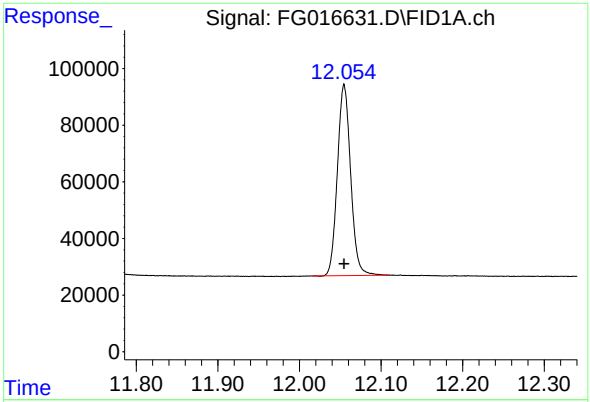
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 640765
Conc: 5.17 ug/ml



#8 n-Octadecane (C18)

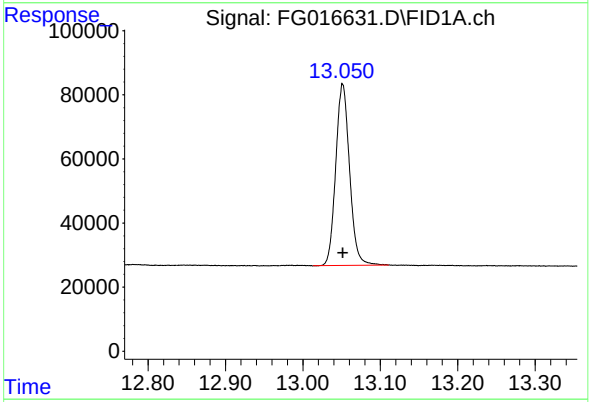
R.T.: 11.733 min
Delta R.T.: 0.000 min
Response: 697381
Conc: 5.36 ug/ml



#9 ortho-Terphenyl (SURR)

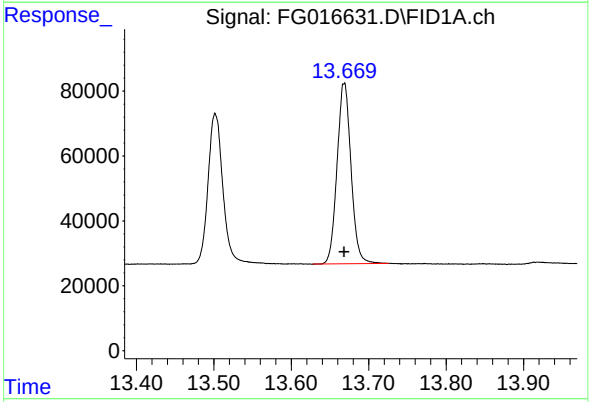
R.T.: 12.055 min
Delta R.T.: 0.000 min
Response: 762580
Conc: 5.35 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



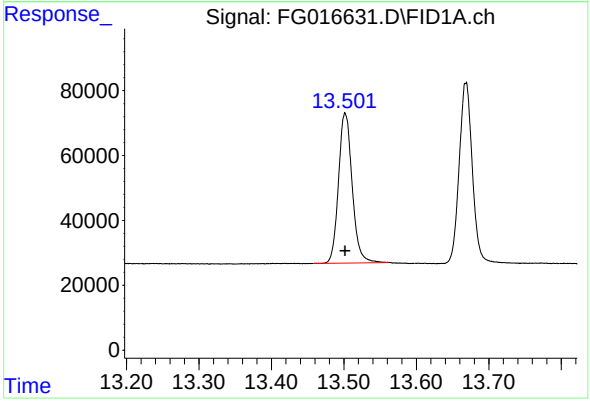
#10 n-Eicosane (C20)

R.T.: 13.051 min
Delta R.T.: 0.000 min
Response: 702619
Conc: 5.44 ug/ml



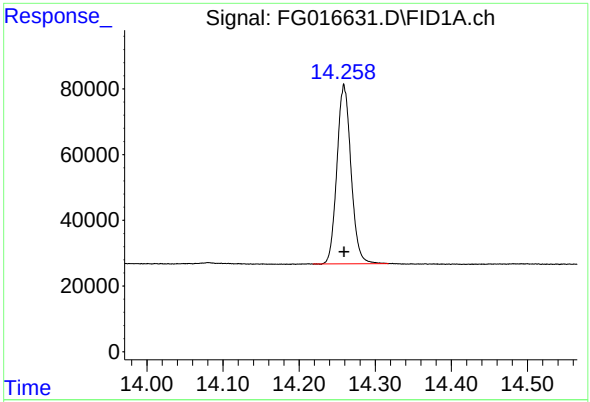
#11 n-Heneicosane (C21)

R.T.: 13.668 min
Delta R.T.: 0.000 min
Response: 698486
Conc: 5.44 ug/ml



#12 1-chlorooctadecane (SURR)

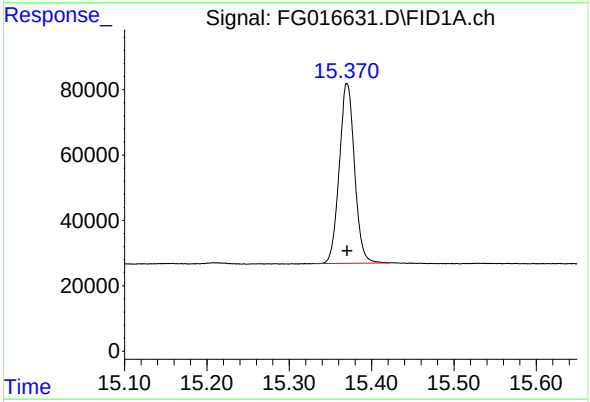
R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 605295
Conc: 5.36 ug/ml



#13 n-Docosane (C22)

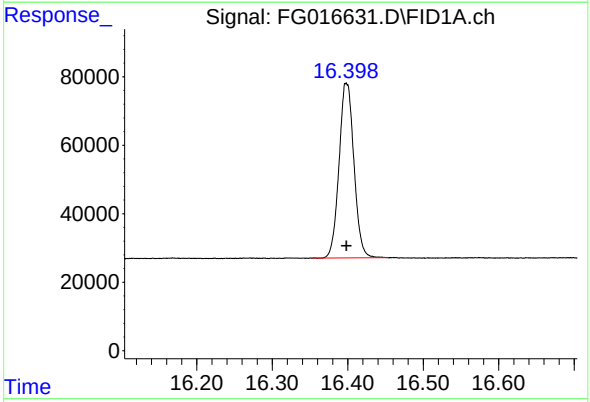
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 699503
Conc: 5.42 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



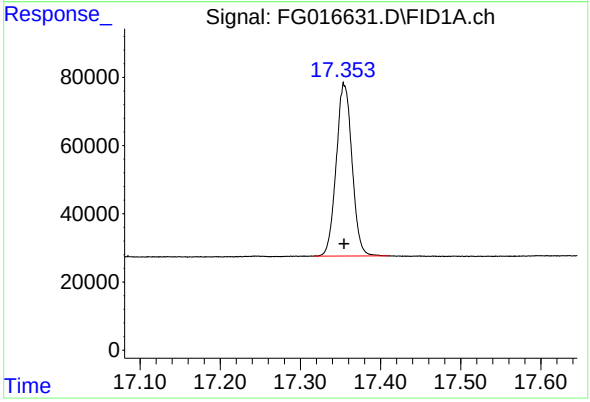
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 706536
Conc: 5.42 ug/ml



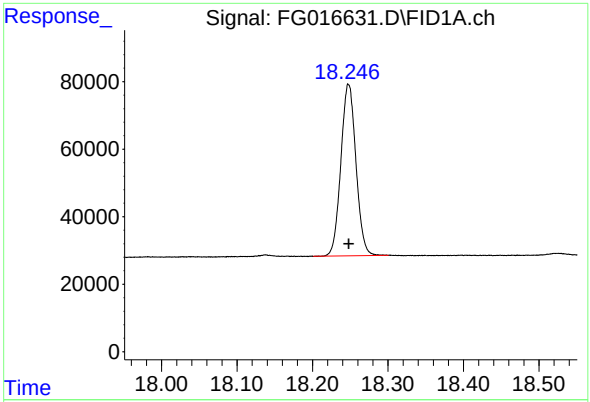
#15 n-Hexacosane (C26)

R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 699770
Conc: 5.42 ug/ml



#16 n-Octacosane (C28)

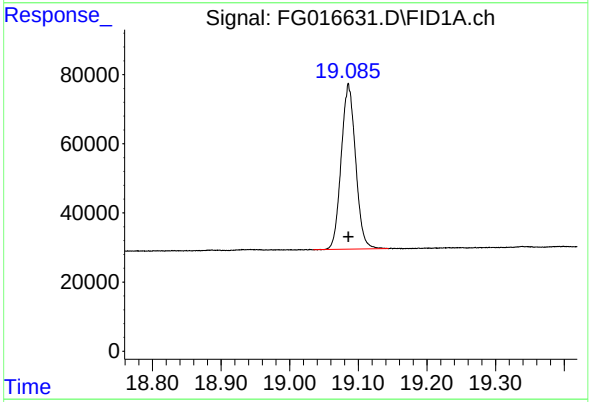
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 692578
Conc: 5.46 ug/ml



#17 n-Tricontane (C30)

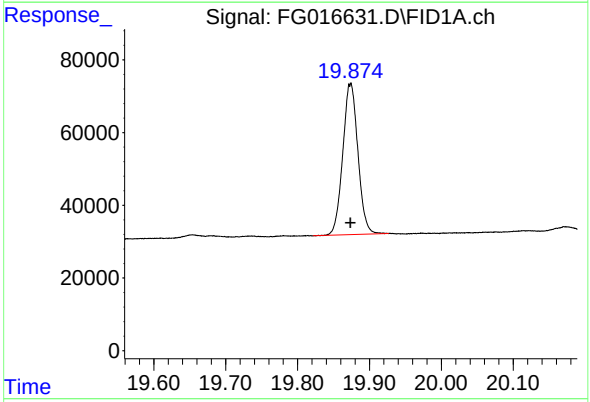
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 706248
Conc: 5.52 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



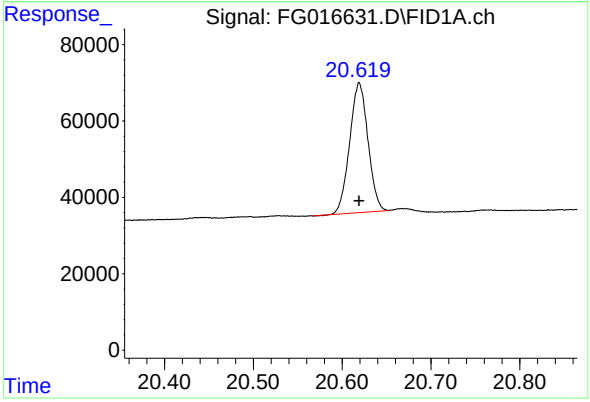
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 694705
Conc: 5.67 ug/ml



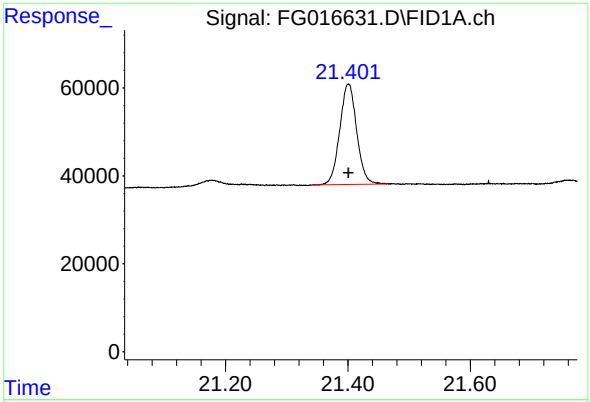
#19 n-Tetratriacontane (C34)

R.T.: 19.874 min
Delta R.T.: 0.000 min
Response: 606787
Conc: 5.59 ug/ml



#20 n-Hexatriacontane (C36)

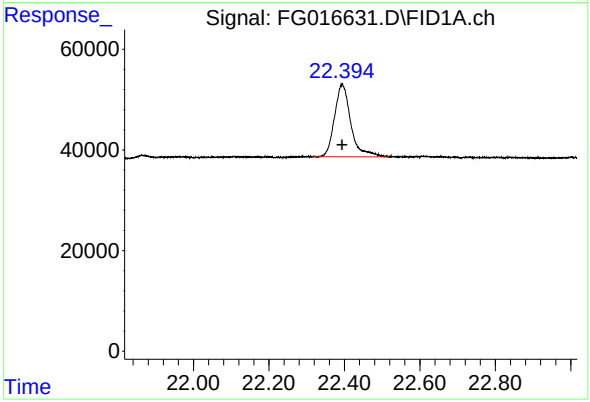
R.T.: 20.619 min
Delta R.T.: 0.000 min
Response: 487239
Conc: 5.36 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.401 min
Delta R.T.: 0.000 min
Response: 440470
Conc: 5.41 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.394 min
Delta R.T.: 0.000 min
Response: 430934
Conc: 5.59 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016631.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 15:58
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.379	3.340	3.428	BB	60642	606671	79.56%	4.376%
2	4.640	4.607	4.689	BB	60984	613414	80.44%	4.425%
3	6.359	6.331	6.438	BB	55370	618463	81.10%	4.461%
4	6.821	6.793	6.875	BB	59862	618459	81.10%	4.461%
5	7.462	7.425	7.547	BB	41057	535605	70.24%	3.863%
6	8.661	8.621	8.738	BB	48990	598970	78.55%	4.320%
7	10.280	10.239	10.361	BB	48339	640765	84.03%	4.622%
8	11.733	11.693	11.803	BB	55216	697381	91.45%	5.030%
9	12.055	12.017	12.109	BB	67606	762580	100.00%	5.501%
10	13.051	13.013	13.111	BB	56382	702619	92.14%	5.068%
11	13.502	13.458	13.562	BB	46321	605295	79.37%	4.366%
12	13.668	13.628	13.726	BB	55450	698486	91.60%	5.038%
13	14.259	14.218	14.318	BB	54602	699503	91.73%	5.046%
14	15.370	15.329	15.421	BB	54964	706536	92.65%	5.096%
15	16.398	16.354	16.454	BB	51097	699770	91.76%	5.048%
16	17.355	17.316	17.410	BB	49786	692578	90.82%	4.996%
17	18.248	18.201	18.301	BB	50736	706248	92.61%	5.094%
18	19.086	19.034	19.144	BB	47826	694705	91.10%	5.011%
19	19.874	19.822	19.927	BB	41204	606787	79.57%	4.377%
20	20.619	20.568	20.653	BV	34087	487239	63.89%	3.515%
21	21.401	21.343	21.467	BB	22869	440470	57.76%	3.177%
22	22.394	22.317	22.517	BB	14572	430934	56.51%	3.108%
			Sum of corrected areas:			13863477		

Aliphatic EPH 092425.M Thu Sep 25 04:16:46 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016632.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:37:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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)	12.057	2817681	19.755 ug/ml
Spiked Amount	50.000	Recovery	= 39.51%	
12)	S 1-chlorooctadecane (S...	13.502	2240344	19.848 ug/ml
Spiked Amount	50.000	Recovery	= 39.70%	
	Target Compounds			
1)	T n-Nonane (C9)	3.380	2232664	19.674 ug/ml
2)	T n-Decane (C10)	4.640	2275953	19.679 ug/ml
3)	T A~Naphthalene (C11.7)	6.358	2447786	19.853 ug/ml
4)	T n-Dodecane (C12)	6.821	2310492	19.684 ug/ml
5)	T A~2-methylnaphthalene...	7.461	2342091	20.247 ug/ml
6)	T n-Tetradecane (C14)	8.661	2341137	19.955 ug/ml
7)	T n-Hexadecane (C16)	10.280	2476808	19.990 ug/ml
8)	T n-Octadecane (C18)	11.734	2588745	19.886 ug/ml
10)	T n-Eicosane (C20)	13.052	2566701	19.855 ug/ml
11)	T n-Heneicosane (C21)	13.669	2545416	19.822 ug/ml
13)	T n-Docosane (C22)	14.259	2554929	19.814 ug/ml
14)	T n-Tetracosane (C24)	15.371	2589279	19.853 ug/ml
15)	T n-Hexacosane (C26)	16.398	2565593	19.875 ug/ml
16)	T n-Octacosane (C28)	17.356	2535026	19.976 ug/ml
17)	T n-Tricontane (C30)	18.248	2616805	20.451 ug/ml
18)	T n-Dotriacontane (C32)	19.086	2540356	20.742 ug/ml
19)	T n-Tetratriacontane (C34)	19.875	2237978	20.601 ug/ml
20)	T n-Hexatriacontane (C36)	20.619	1831577	20.156 ug/ml
21)	T n-Octatriacontane (C38)	21.398	1591995	19.548 ug/ml
22)	T n-Tetracontane (C40)	22.393	1450457	18.803 ug/ml

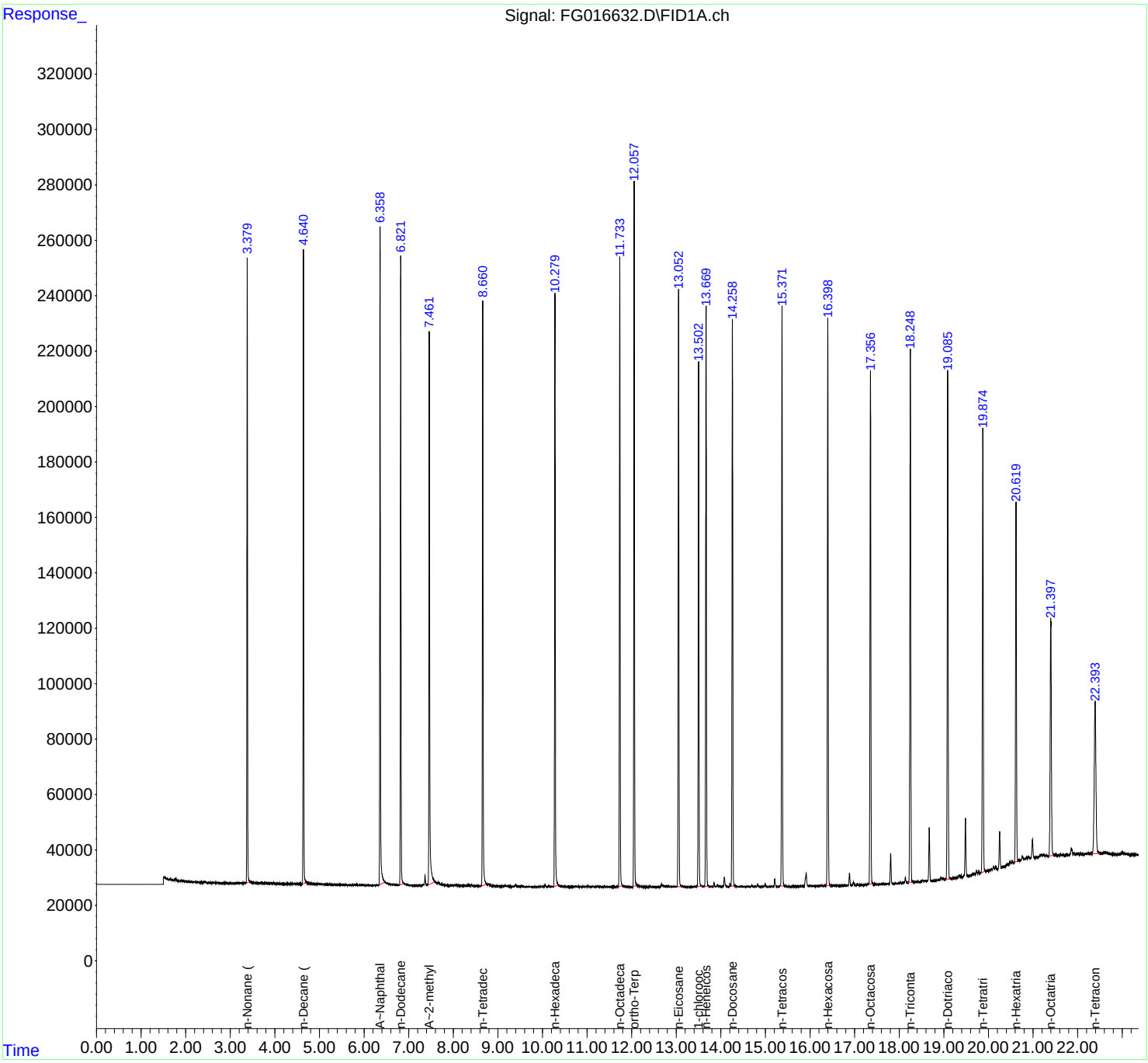
(f)=RT Delta > 1/2 Window (m)=manual int.

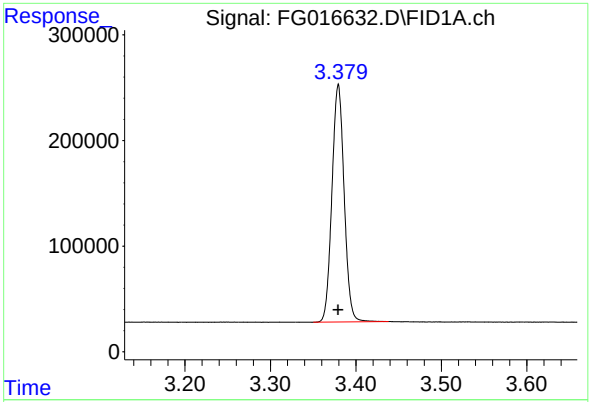
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016632.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 16:37:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

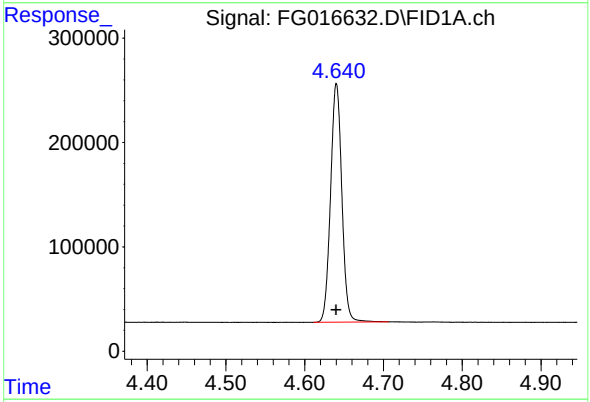




#1 n-Nonane (C9)

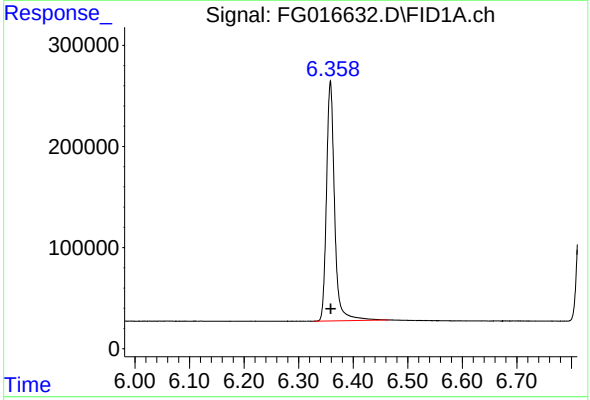
R.T.: 3.380 min
Delta R.T.: 0.000 min
Response: 2232664
Conc: 19.67 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



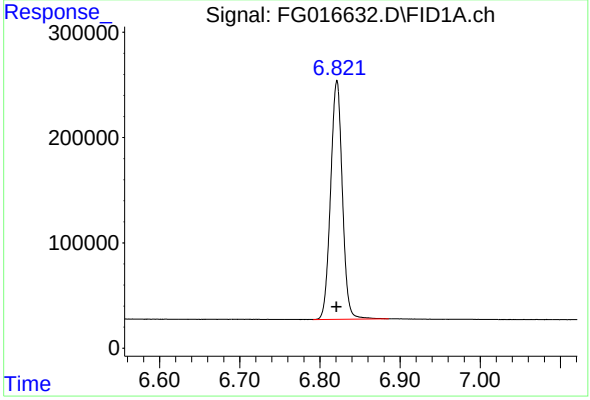
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 2275953
Conc: 19.68 ug/ml



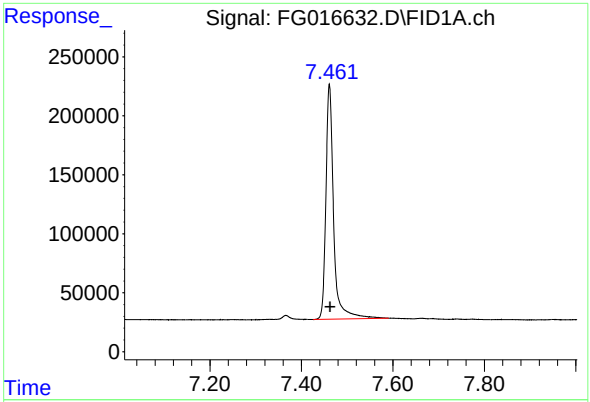
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: 0.000 min
Response: 2447786
Conc: 19.85 ug/ml



#4 n-Dodecane (C12)

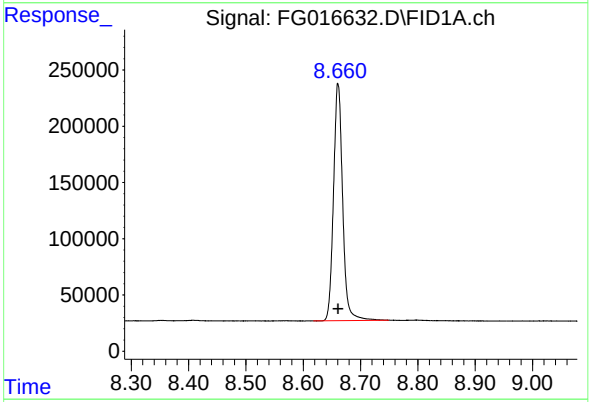
R.T.: 6.821 min
Delta R.T.: 0.000 min
Response: 2310492
Conc: 19.68 ug/ml



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

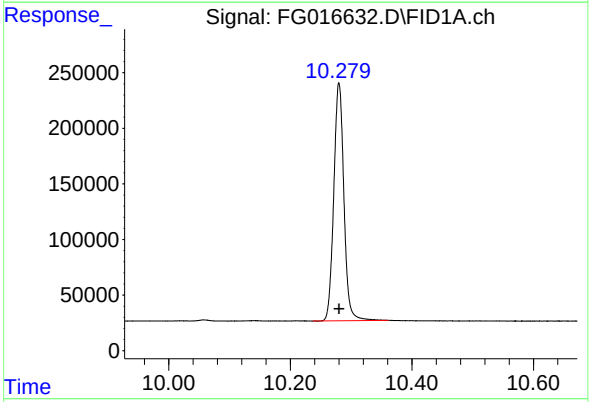
R.T.: 7.461 min
Delta R.T.: -0.001 min
Response: 2342091
Conc: 20.25 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



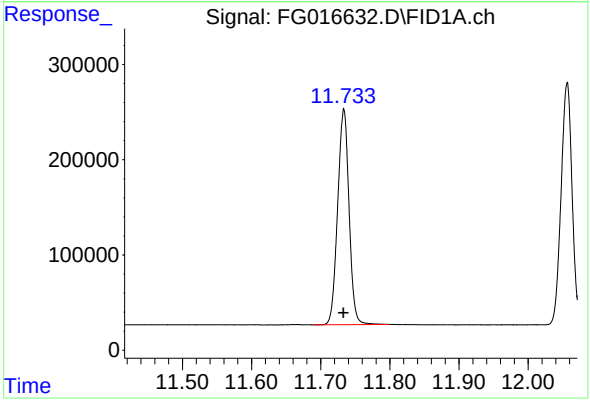
#6 n-Tetradecane (C14)

R.T.: 8.661 min
Delta R.T.: 0.000 min
Response: 2341137
Conc: 19.95 ug/ml



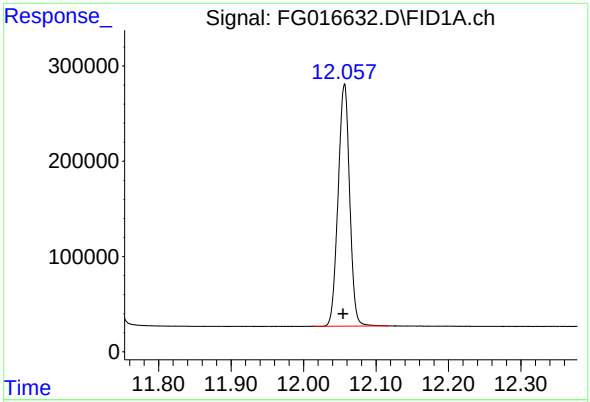
#7 n-Hexadecane (C16)

R.T.: 10.280 min
Delta R.T.: 0.000 min
Response: 2476808
Conc: 19.99 ug/ml



#8 n-Octadecane (C18)

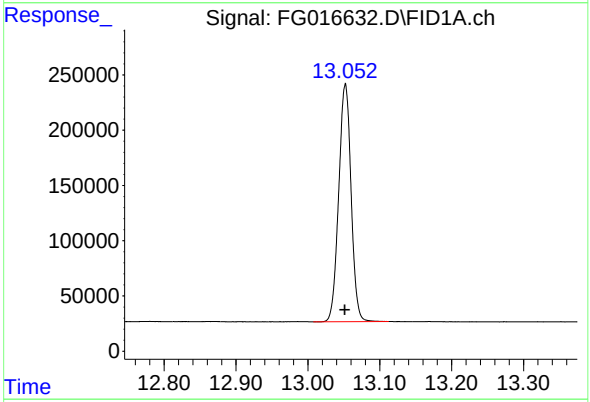
R.T.: 11.734 min
Delta R.T.: 0.000 min
Response: 2588745
Conc: 19.89 ug/ml



#9 ortho-Terphenyl (SURR)

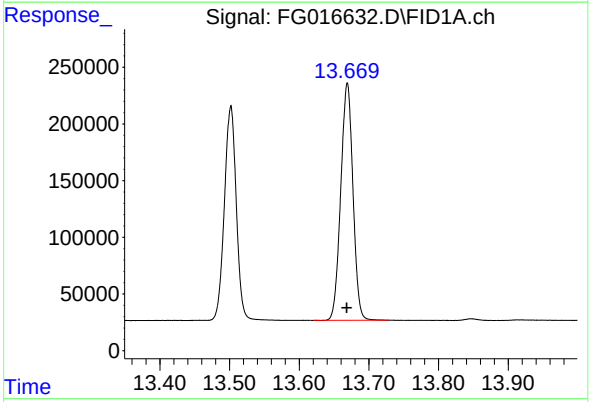
R.T.: 12.057 min
Delta R.T.: 0.002 min
Response: 2817681
Conc: 19.75 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



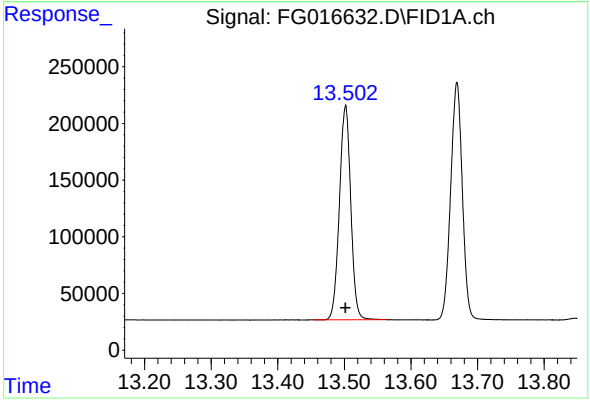
#10 n-Eicosane (C20)

R.T.: 13.052 min
Delta R.T.: 0.000 min
Response: 2566701
Conc: 19.85 ug/ml



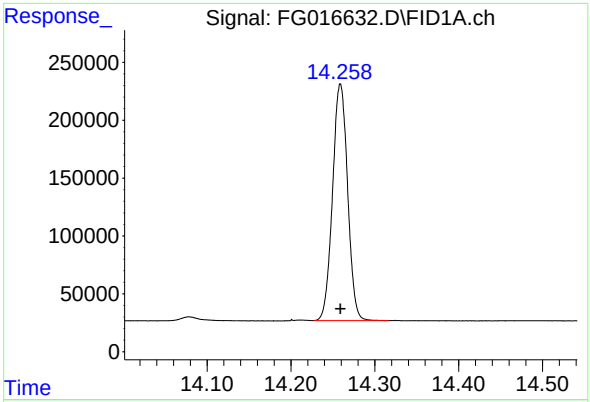
#11 n-Heneicosane (C21)

R.T.: 13.669 min
Delta R.T.: 0.000 min
Response: 2545416
Conc: 19.82 ug/ml



#12 1-chlorooctadecane (SURR)

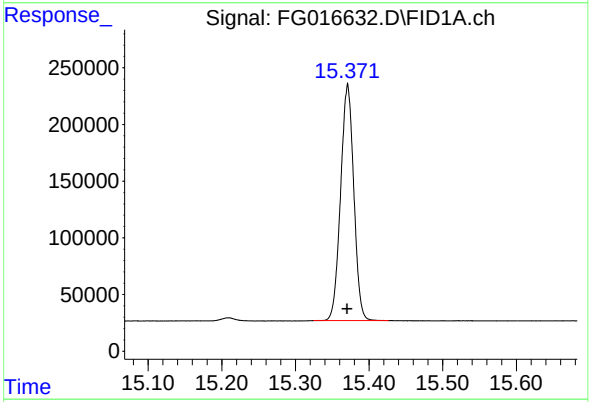
R.T.: 13.502 min
Delta R.T.: 0.000 min
Response: 2240344
Conc: 19.85 ug/ml



#13 n-Docosane (C22)

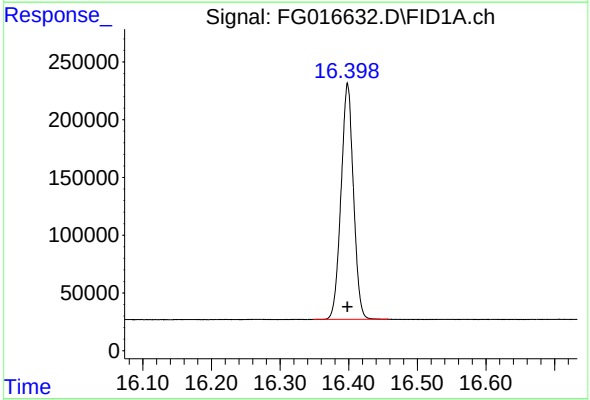
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 2554929
Conc: 19.81 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



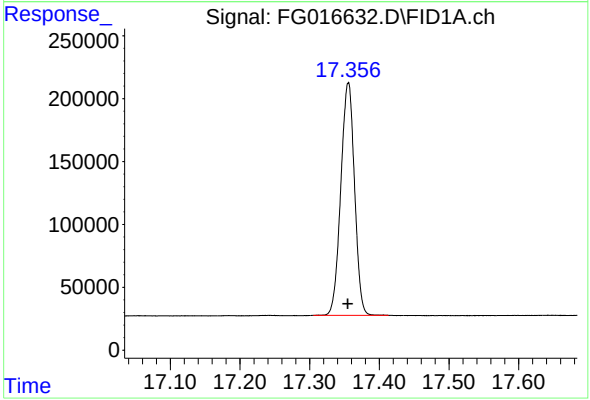
#14 n-Tetracosane (C24)

R.T.: 15.371 min
Delta R.T.: 0.000 min
Response: 2589279
Conc: 19.85 ug/ml



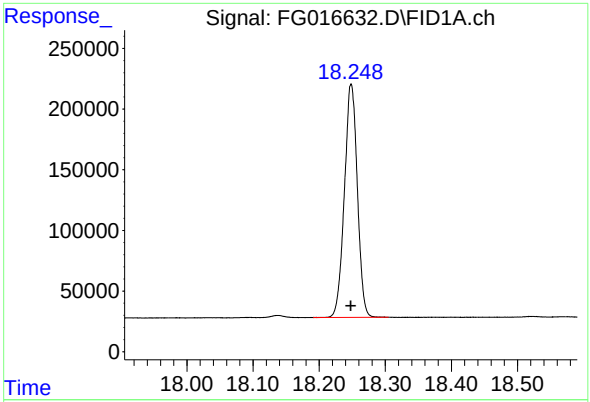
#15 n-Hexacosane (C26)

R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 2565593
Conc: 19.87 ug/ml



#16 n-Octacosane (C28)

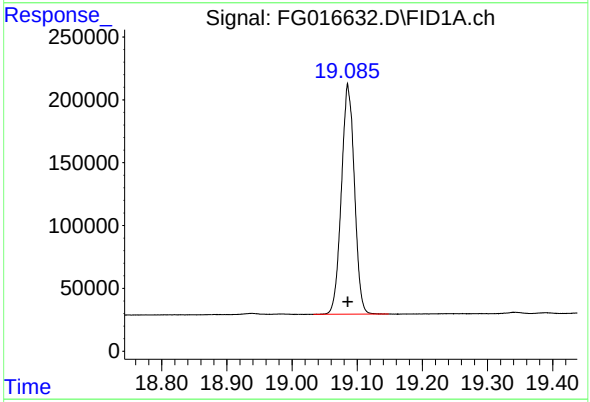
R.T.: 17.356 min
Delta R.T.: 0.000 min
Response: 2535026
Conc: 19.98 ug/ml



#17 n-Tricontane (C30)

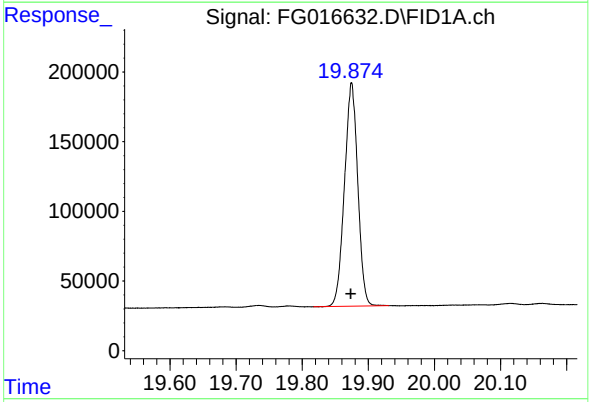
R.T.: 18.248 min
Delta R.T.: 0.000 min
Response: 2616805
Conc: 20.45 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



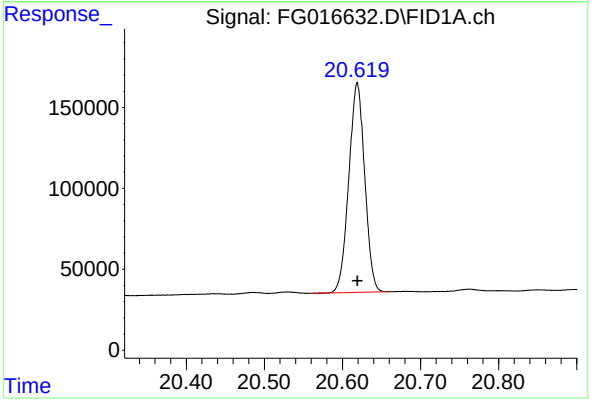
#18 n-Dotriacontane (C32)

R.T.: 19.086 min
Delta R.T.: 0.000 min
Response: 2540356
Conc: 20.74 ug/ml



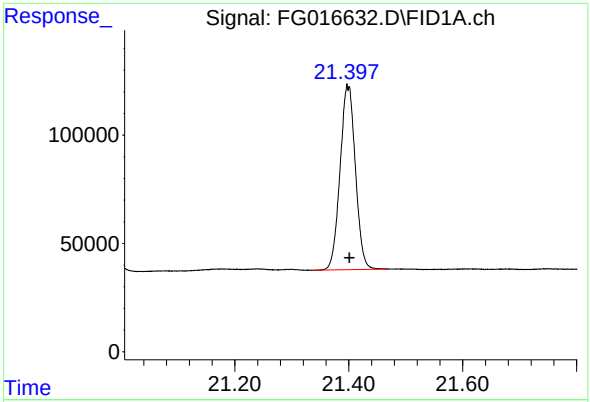
#19 n-Tetratriacontane (C34)

R.T.: 19.875 min
Delta R.T.: 0.001 min
Response: 2237978
Conc: 20.60 ug/ml



#20 n-Hexatriacontane (C36)

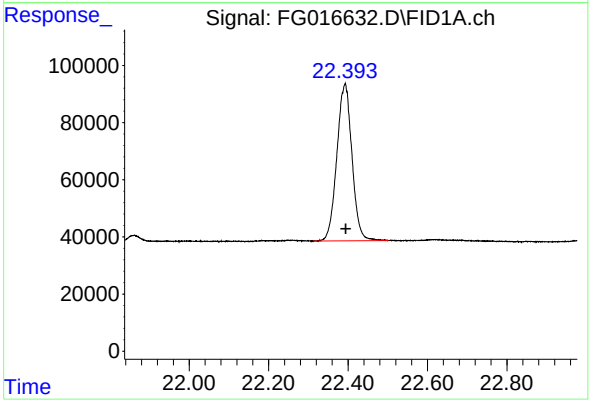
R.T.: 20.619 min
Delta R.T.: 0.000 min
Response: 1831577
Conc: 20.16 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.398 min
Delta R.T.: -0.003 min
Response: 1591995
Conc: 19.55 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.393 min
Delta R.T.: -0.002 min
Response: 1450457
Conc: 18.80 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092425AL\
Data File : FG016632.D
Signal(s) : FID1A.ch
Acq On : 24 Sep 2025 16:28
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.380	3.350	3.438	BB	224891	2232664	79.24%	4.319%
2	4.640	4.611	4.707	BB	228909	2275953	80.77%	4.402%
3	6.358	6.327	6.465	BB	237186	2447786	86.87%	4.735%
4	6.821	6.792	6.886	BB	227212	2310492	82.00%	4.469%
5	7.461	7.426	7.591	BB	199214	2342091	83.12%	4.530%
6	8.661	8.617	8.749	BB	210220	2341137	83.09%	4.528%
7	10.280	10.238	10.362	BB	213906	2476808	87.90%	4.791%
8	11.734	11.689	11.798	BB	226951	2588745	91.88%	5.007%
9	12.057	12.013	12.118	BB	254467	2817681	100.00%	5.450%
10	13.052	13.008	13.113	BB	215867	2566701	91.09%	4.965%
11	13.502	13.453	13.567	BB	188794	2240344	79.51%	4.333%
12	13.669	13.620	13.728	BB	209523	2545416	90.34%	4.923%
13	14.259	14.227	14.317	BB	204530	2554929	90.67%	4.942%
14	15.371	15.324	15.427	BB	208854	2589279	91.89%	5.008%
15	16.398	16.348	16.458	BB	204266	2565593	91.05%	4.962%
16	17.356	17.305	17.413	BB	185179	2535026	89.97%	4.903%
17	18.248	18.191	18.305	BB	192389	2616805	92.87%	5.062%
18	19.086	19.033	19.148	BB	182253	2540356	90.16%	4.914%
19	19.875	19.817	19.931	BB	160319	2237978	79.43%	4.329%
20	20.619	20.563	20.659	BB	129752	1831577	65.00%	3.543%
21	21.398	21.338	21.470	BB	84725	1591995	56.50%	3.079%
22	22.393	22.312	22.502	BB	54879	1450457	51.48%	2.806%
			Sum of corrected areas:			51699811		

Aliphatic EPH 092425.M Thu Sep 25 04:21:30 2025

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

Continuing Calibration Report for SequenceID : FC092625AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069853.D**						
Aliphatic C9-C12	8368697.000	60.000	3.300	6.593	139478.283	133523.254	-4.460
Aliphatic C12-C16	6681561.000	40.000	6.594	9.993	167039.025	156673.343	-6.616
Aliphatic C16-C21	11414829.000	60.000	9.994	13.360	190247.150	179548.834	-5.958
Aliphatic C21-C28	15556389.000	80.000	13.361	17.023	194454.863	180941.740	-7.468
Aliphatic C28-C40	17104989.000	120.000	17.024	21.984	142541.575	128677.038	-10.775
Aliphatic EPH	59126465.000	360.000	3.300	21.984	164240.181	152688.452	-7.566

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:	26 Sep 2025 09:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069853.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.300	6.593	8368697.000	60.000	ug/ml
Aliphatic C12-C16	6.594	9.993	6681561.000	40.000	ug/ml
Aliphatic C16-C21	9.994	13.360	11414829.000	60.000	ug/ml
Aliphatic C21-C28	13.361	17.023	15556389.000	80.000	ug/ml
Aliphatic C28-C40	17.024	21.984	17104989.000	120.000	ug/ml
Aliphatic EPH	3.300	21.984	59126465.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069853.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:09
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: Sep 27 06:07:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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			
9) S	ortho-Terphenyl (SURR)	11.659	3931750	20.992 ug/ml
Spiked Amount	50.000		Recovery =	41.98%
12) S	1-chlorooctadecane (S...	13.093	3307664	20.945 ug/ml
Spiked Amount	50.000		Recovery =	41.89%
	Target Compounds			
1) T	n-Nonane (C9)	3.400	2641201	20.603 ug/ml
2) T	n-Decane (C10)	4.471	2782142	20.937 ug/ml
3) T	A~Naphthalene (C11.7)	6.065	3088201	20.803 ug/ml
4) T	n-Dodecane (C12)	6.493	2945354	21.114 ug/ml
5) T	A~2-methylnaphthalene...	7.122	3072542	20.811 ug/ml
6) T	n-Tetradecane (C14)	8.290	3158371	21.294 ug/ml
7) T	n-Hexadecane (C16)	9.893	3523190	21.349 ug/ml
8) T	n-Octadecane (C18)	11.337	3798147	21.312 ug/ml
10) T	n-Eicosane (C20)	12.647	3813334	21.172 ug/ml
11) T	n-Heneicosane (C21)	13.260	3803348	21.093 ug/ml
13) T	n-Docosane (C22)	13.847	3847790	21.180 ug/ml
14) T	n-Tetracosane (C24)	14.950	3922415	21.317 ug/ml
15) T	n-Hexacosane (C26)	15.972	3908811	21.529 ug/ml
16) T	n-Octacosane (C28)	16.923	3877373	21.965 ug/ml
17) T	n-Tricontane (C30)	17.812	3968525	22.673 ug/ml
18) T	n-Dotriacontane (C32)	18.645	3725946	23.030 ug/ml
19) T	n-Tetratriacontane (C34)	19.427	3222922	23.062 ug/ml
20) T	n-Hexatriacontane (C36)	20.168	2481385	21.979 ug/ml
21) T	n-Octatriacontane (C38)	20.927	1991933	20.649 ug/ml
22) T	n-Tetracontane (C40)	21.884	1714278	19.904 ug/ml

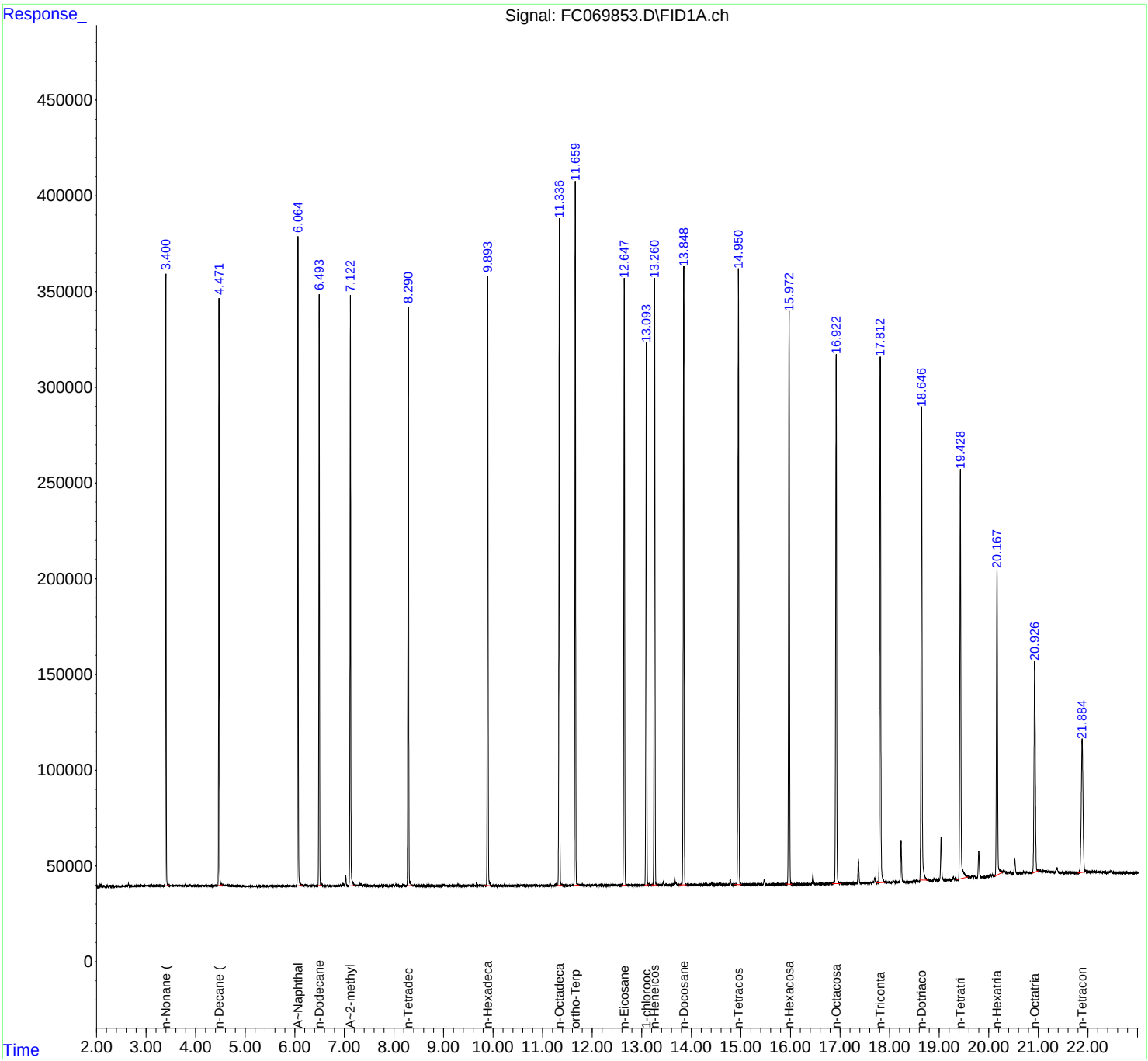
(f)=RT Delta > 1/2 Window (m)=manual int.

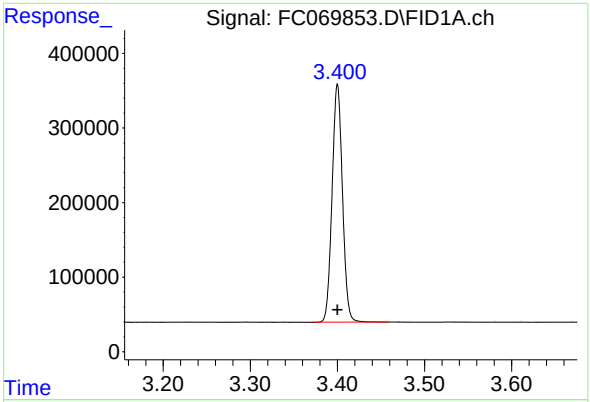
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069853.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:09
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 27 06:07:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

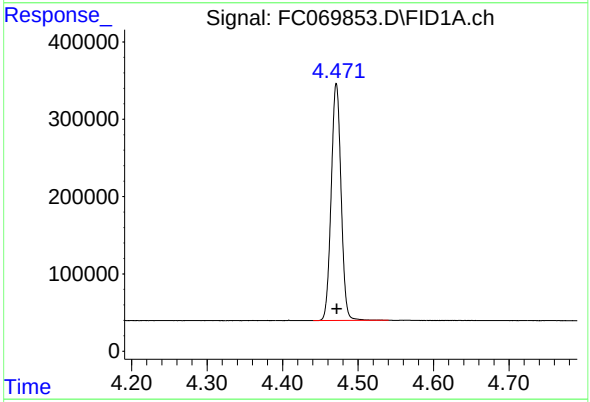




#1 n-Nonane (C9)

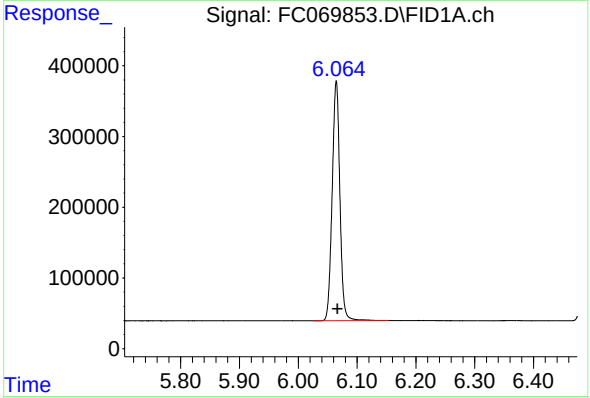
R.T.: 3.400 min
Delta R.T.: 0.000 min
Response: 2641201
Conc: 20.60 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



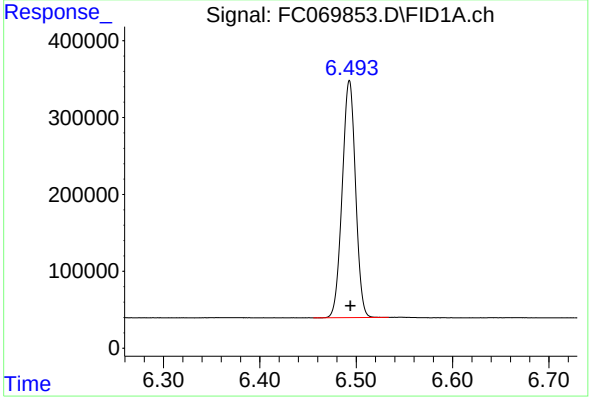
#2 n-Decane (C10)

R.T.: 4.471 min
Delta R.T.: 0.000 min
Response: 2782142
Conc: 20.94 ug/ml



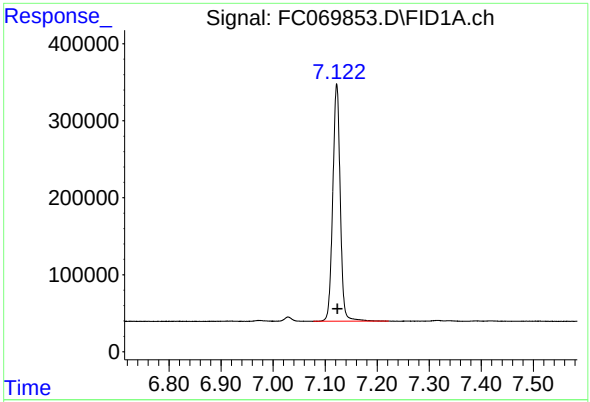
#3 A~Naphthalene (C11.7)

R.T.: 6.065 min
Delta R.T.: -0.002 min
Response: 3088201
Conc: 20.80 ug/ml



#4 n-Dodecane (C12)

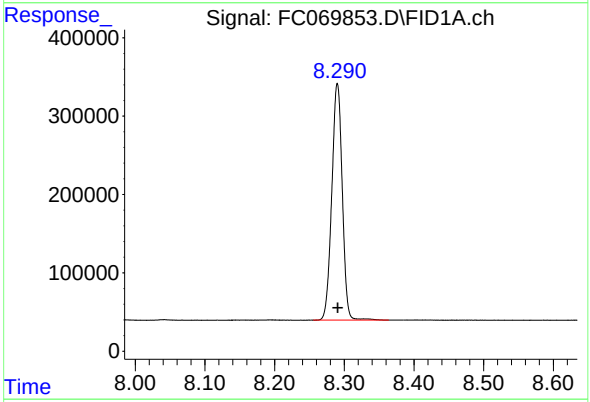
R.T.: 6.493 min
Delta R.T.: -0.001 min
Response: 2945354
Conc: 21.11 ug/ml



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

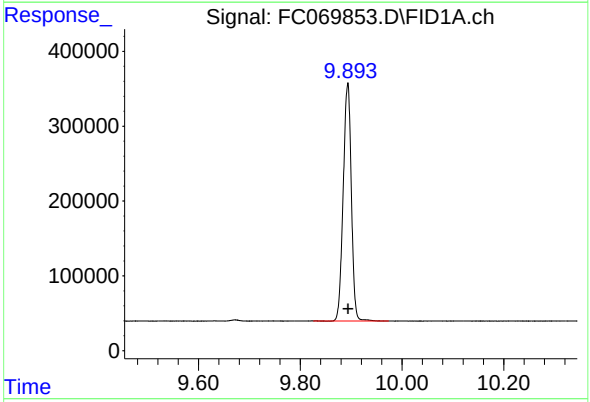
R.T.: 7.122 min
Delta R.T.: -0.002 min
Response: 3072542
Conc: 20.81 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



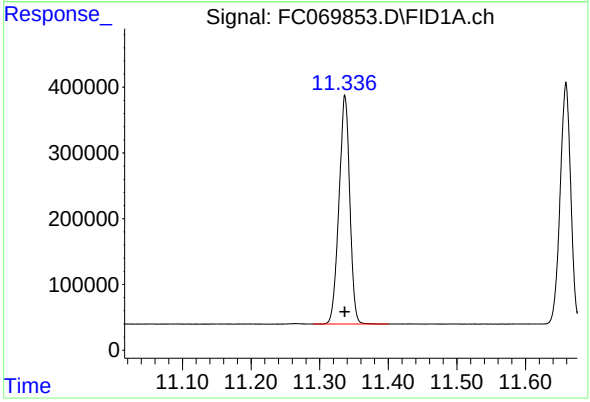
#6 n-Tetradecane (C14)

R.T.: 8.290 min
Delta R.T.: 0.000 min
Response: 3158371
Conc: 21.29 ug/ml



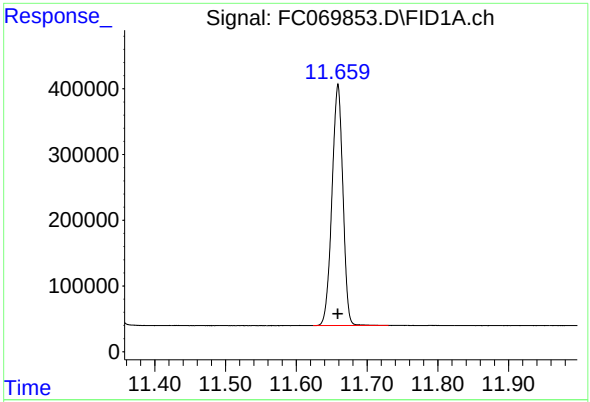
#7 n-Hexadecane (C16)

R.T.: 9.893 min
Delta R.T.: 0.000 min
Response: 3523190
Conc: 21.35 ug/ml



#8 n-Octadecane (C18)

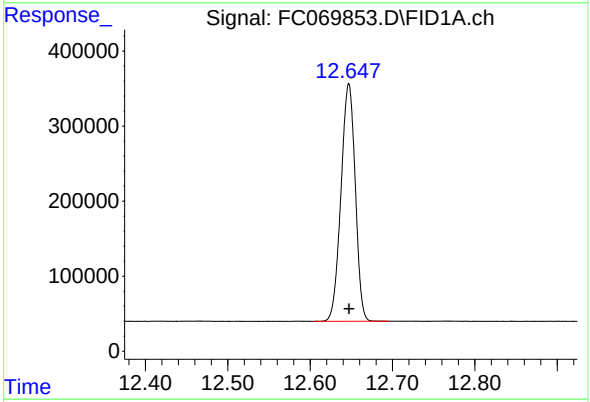
R.T.: 11.337 min
Delta R.T.: 0.000 min
Response: 3798147
Conc: 21.31 ug/ml



#9 ortho-Terphenyl (SURR)

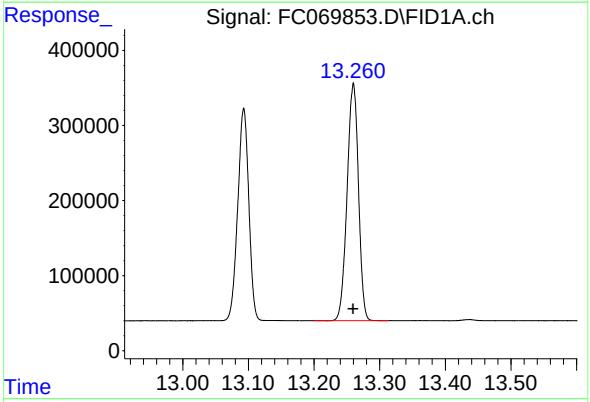
R.T.: 11.659 min
Delta R.T.: 0.000 min
Response: 3931750
Conc: 20.99 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



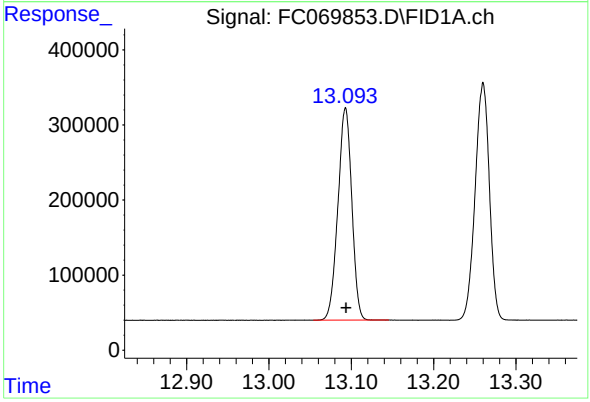
#10 n-Eicosane (C20)

R.T.: 12.647 min
Delta R.T.: 0.000 min
Response: 3813334
Conc: 21.17 ug/ml



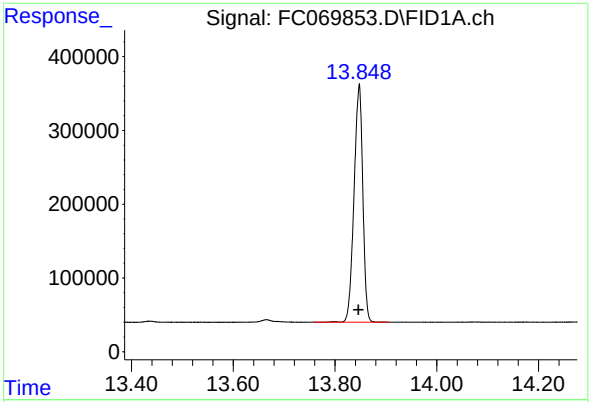
#11 n-Heneicosane (C21)

R.T.: 13.260 min
Delta R.T.: 0.000 min
Response: 3803348
Conc: 21.09 ug/ml



#12 1-chlorooctadecane (SURR)

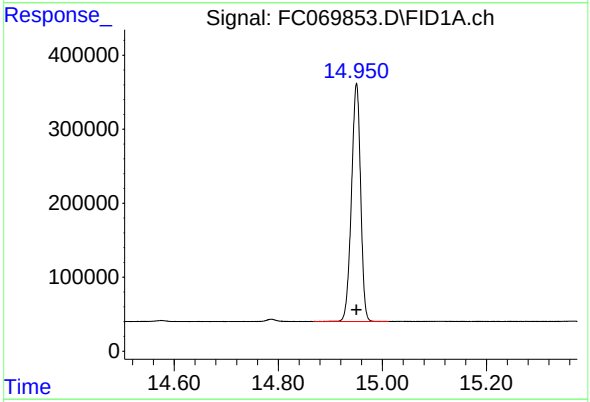
R.T.: 13.093 min
Delta R.T.: 0.000 min
Response: 3307664
Conc: 20.95 ug/ml



#13 n-Docosane (C22)

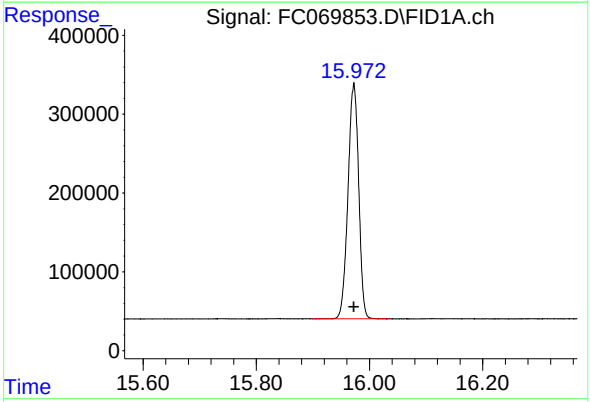
R.T.: 13.847 min
Delta R.T.: 0.000 min
Response: 3847790
Conc: 21.18 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



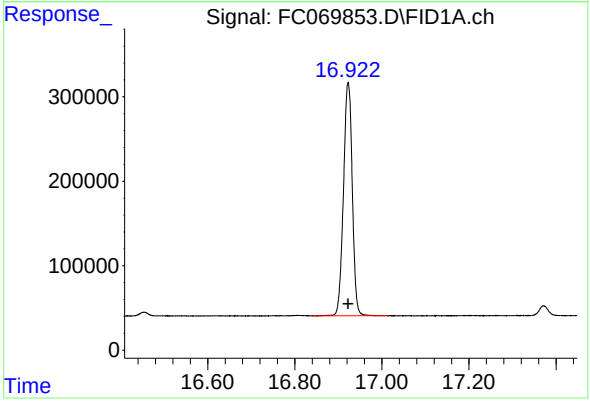
#14 n-Tetracosane (C24)

R.T.: 14.950 min
Delta R.T.: 0.000 min
Response: 3922415
Conc: 21.32 ug/ml



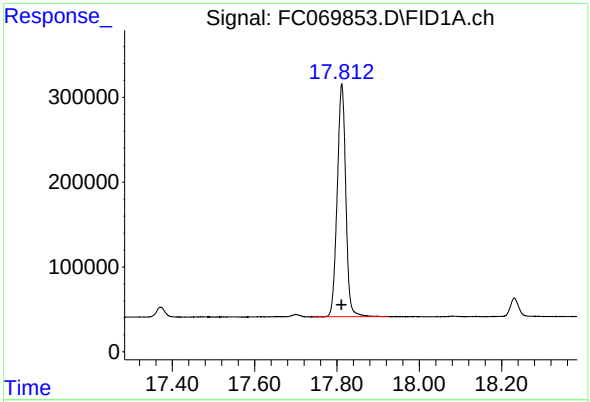
#15 n-Hexacosane (C26)

R.T.: 15.972 min
Delta R.T.: 0.000 min
Response: 3908811
Conc: 21.53 ug/ml



#16 n-Octacosane (C28)

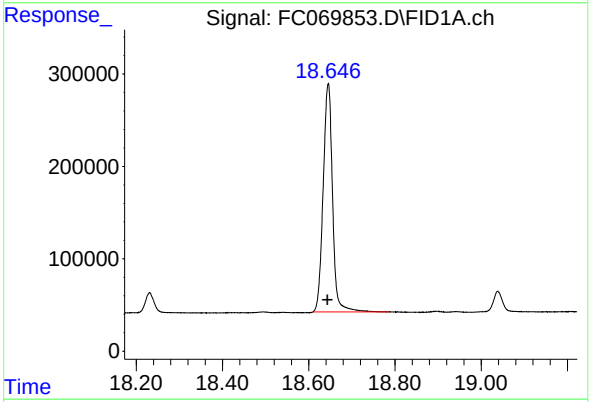
R.T.: 16.923 min
Delta R.T.: 0.000 min
Response: 3877373
Conc: 21.96 ug/ml



#17 n-Tricontane (C30)

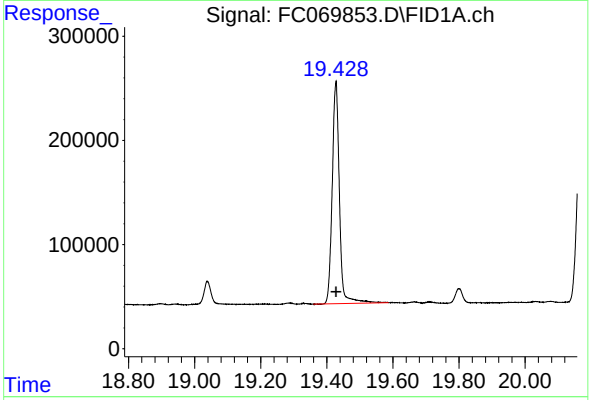
R.T.: 17.812 min
Delta R.T.: 0.000 min
Response: 3968525
Conc: 22.67 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



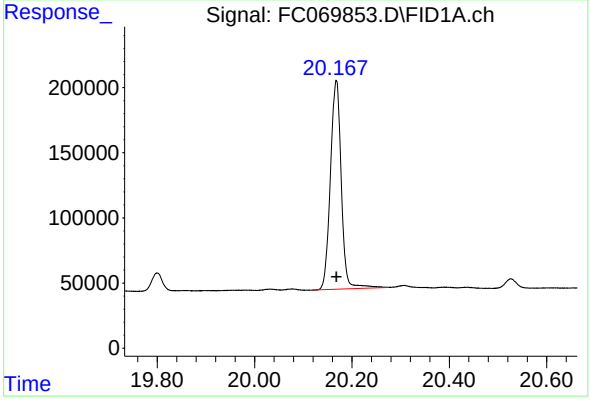
#18 n-Dotriacontane (C32)

R.T.: 18.645 min
Delta R.T.: 0.001 min
Response: 3725946
Conc: 23.03 ug/ml



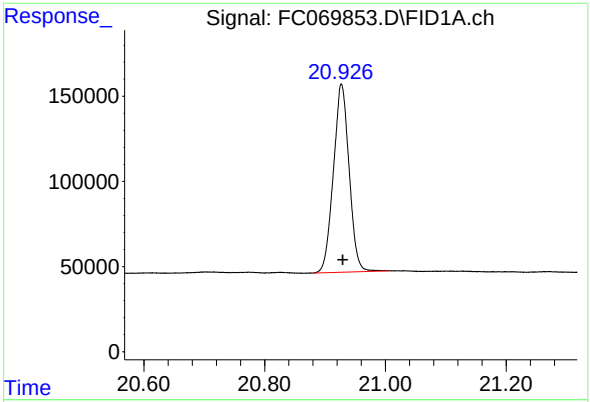
#19 n-Tetratriacontane (C34)

R.T.: 19.427 min
Delta R.T.: 0.000 min
Response: 3222922
Conc: 23.06 ug/ml



#20 n-Hexatriacontane (C36)

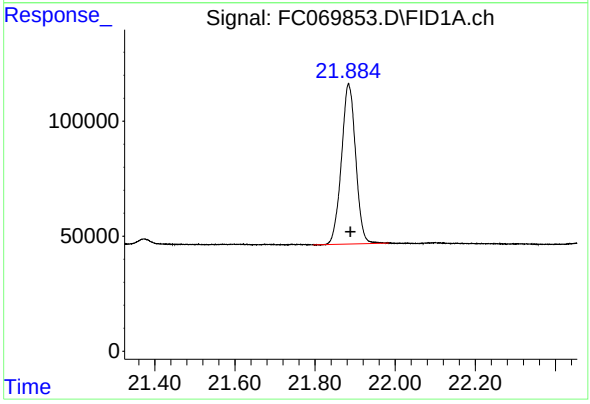
R.T.: 20.168 min
Delta R.T.: 0.000 min
Response: 2481385
Conc: 21.98 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.927 min
Delta R.T.: -0.002 min
Response: 1991933
Conc: 20.65 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.884 min
Delta R.T.: -0.004 min
Response: 1714278
Conc: 19.90 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069853.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:09
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 092325.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	3.400	3.372	3.459	BB	319197	2641201	66.55%	3.642%
2	4.471	4.440	4.540	BB	306385	2782142	70.11%	3.836%
3	6.065	6.025	6.154	BB	340433	3088201	77.82%	4.258%
4	6.493	6.455	6.534	BB	309525	2945354	74.22%	4.061%
5	7.122	7.077	7.222	BB	308657	3072542	77.42%	4.236%
6	8.290	8.255	8.364	BB	301921	3158371	79.59%	4.355%
7	9.893	9.825	9.974	BB	319552	3523190	88.78%	4.858%
8	11.337	11.290	11.400	BB	347158	3798147	95.71%	5.237%
9	11.659	11.624	11.730	BB	366979	3931750	99.07%	5.421%
10	12.647	12.604	12.695	BB	317478	3813334	96.09%	5.258%
11	13.093	13.054	13.145	BB	281963	3307664	83.35%	4.561%
12	13.260	13.199	13.314	BB	317412	3803348	95.84%	5.244%
13	13.847	13.757	13.905	BB	321554	3847790	96.96%	5.305%
14	14.950	14.867	15.012	BB	321968	3922415	98.84%	5.408%
15	15.972	15.900	16.034	BB	297142	3908811	98.50%	5.389%
16	16.923	16.842	17.015	BB	275807	3877373	97.70%	5.346%
17	17.812	17.742	17.925	BB	274674	3968525	100.00%	5.472%
18	18.645	18.610	18.785	BB	247239	3725946	93.89%	5.137%
19	19.427	19.359	19.587	BB	212592	3222922	81.21%	4.444%
20	20.168	20.120	20.275	BV	160570	2481385	62.53%	3.421%
21	20.927	20.880	21.005	BB	110404	1991933	50.19%	2.746%
22	21.884	21.795	21.984	BB	69822	1714278	43.20%	2.364%
					Sum of corrected areas:	72526621		

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

Continuing Calibration Report for SequenceID : FC092625AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC069858.D**						
Aliphatic C9-C12	7318913.000	60.000	3.300	6.593	121981.883	133523.254	8.644
Aliphatic C12-C16	5773350.000	40.000	6.594	9.993	144333.750	156673.343	7.876
Aliphatic C16-C21	9454936.000	60.000	9.994	13.360	157582.267	179548.834	12.234
Aliphatic C21-C28	12400776.000	80.000	13.361	17.023	155009.700	180941.740	14.332
Aliphatic C28-C40	13628539.000	120.000	17.024	21.984	113571.158	128677.038	11.739
Aliphatic EPH	48576514.000	360.000	3.300	21.984	134934.761	152688.452	11.627

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:	26 Sep 2025 16:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FC069858.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.300	6.593	7318913.000	60.000	ug/ml
Aliphatic C12-C16	6.594	9.993	5773350.000	40.000	ug/ml
Aliphatic C16-C21	9.994	13.360	9454936.000	60.000	ug/ml
Aliphatic C21-C28	13.361	17.023	12400776.000	80.000	ug/ml
Aliphatic C28-C40	17.024	21.984	13628539.000	120.000	ug/ml
Aliphatic EPH	3.300	21.984	48576514.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069858.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 16:04
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: Sep 29 07:56:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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			
9)	S ortho-Terphenyl (SURR)	11.658	3351415	17.893 ug/ml
Spiked Amount	50.000		Recovery =	35.79%
12)	S 1-chlorooctadecane (S...	13.093	2711205	17.168 ug/ml
Spiked Amount	50.000		Recovery =	34.34%
	Target Compounds			
1)	T n-Nonane (C9)	3.397	2309840	18.018 ug/ml
2)	T n-Decane (C10)	4.470	2431473	18.298 ug/ml
3)	T A~Naphthalene (C11.7)	6.064	2720396	18.326 ug/ml
4)	T n-Dodecane (C12)	6.493	2577600	18.478 ug/ml
5)	T A~2-methylnaphthalene...	7.121	2704654	18.319 ug/ml
6)	T n-Tetradecane (C14)	8.290	2753403	18.564 ug/ml
7)	T n-Hexadecane (C16)	9.893	3019947	18.300 ug/ml
8)	T n-Octadecane (C18)	11.336	3190611	17.903 ug/ml
10)	T n-Eicosane (C20)	12.647	3147341	17.474 ug/ml
11)	T n-Heneicosane (C21)	13.260	3116984	17.286 ug/ml
13)	T n-Docosane (C22)	13.846	3123975	17.195 ug/ml
14)	T n-Tetracosane (C24)	14.951	3143707	17.085 ug/ml
15)	T n-Hexacosane (C26)	15.972	3087344	17.004 ug/ml
16)	T n-Octacosane (C28)	16.922	3045750	17.254 ug/ml
17)	T n-Tricontane (C30)	17.810	3136925	17.922 ug/ml
18)	T n-Dotriacontane (C32)	18.644	2971169	18.365 ug/ml
19)	T n-Tetratriacontane (C34)	19.427	2580273	18.463 ug/ml
20)	T n-Hexatriacontane (C36)	20.167	1981749	17.553 ug/ml
21)	T n-Octatriacontane (C38)	20.929	1587412	16.456 ug/ml
22)	T n-Tetracontane (C40)	21.887	1371011	15.918 ug/ml

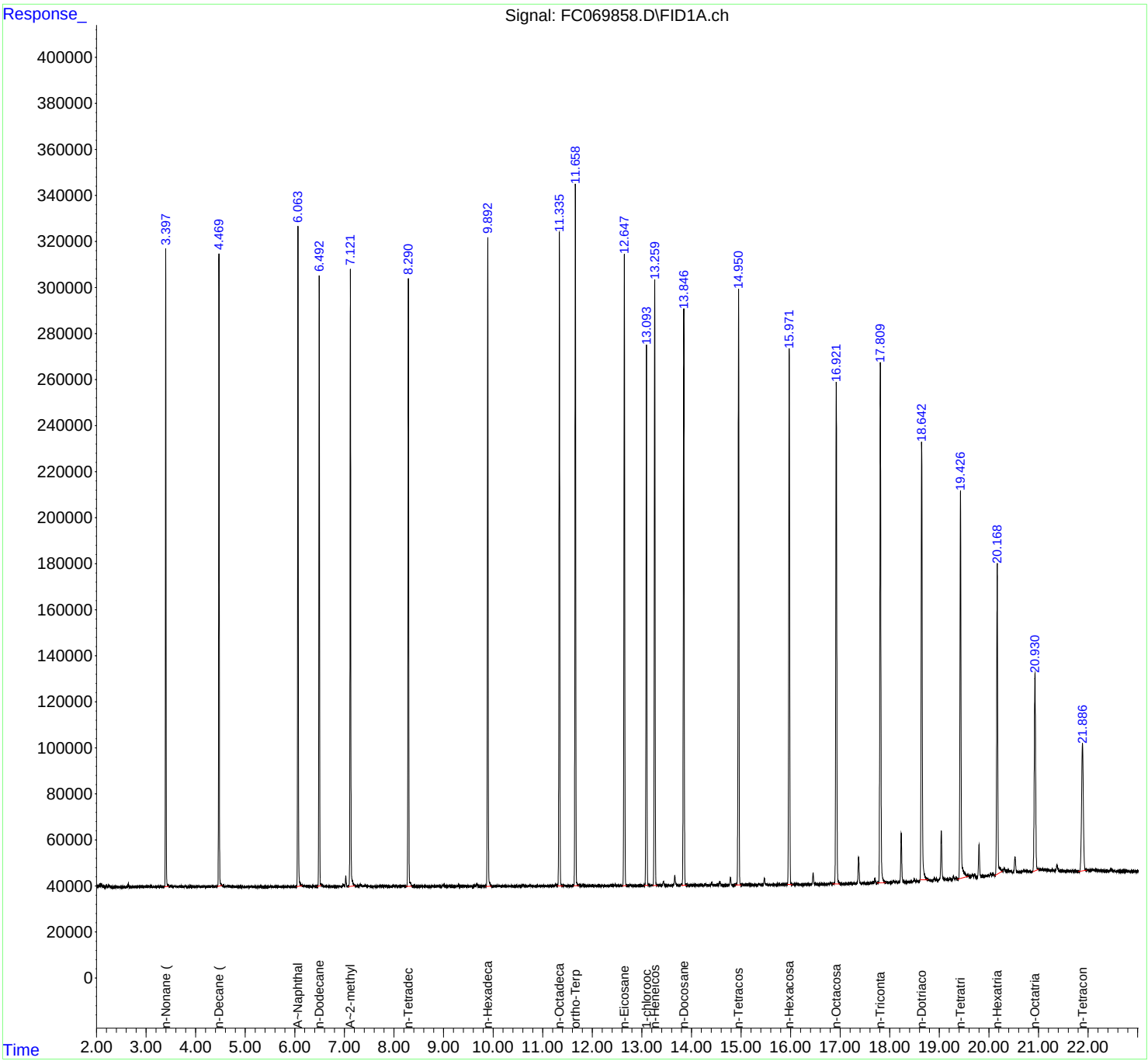
(f)=RT Delta > 1/2 Window (m)=manual int.

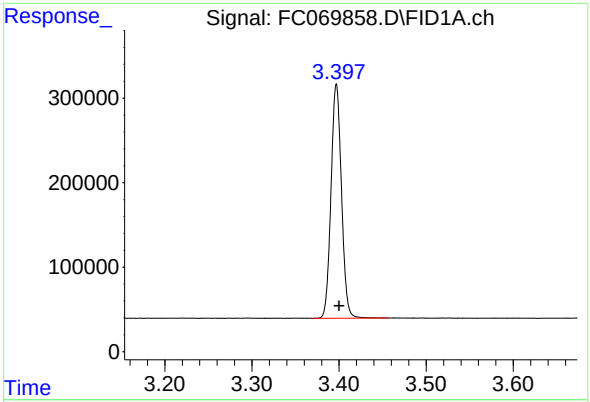
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069858.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 16:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 29 07:56:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

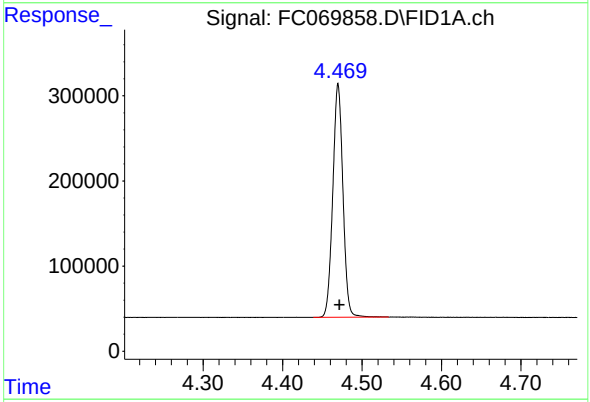




#1 n-Nonane (C9)

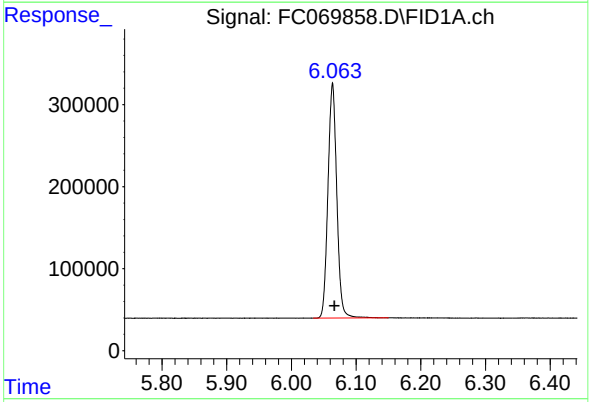
R.T.: 3.397 min
Delta R.T.: -0.003 min
Response: 2309840
Conc: 18.02 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



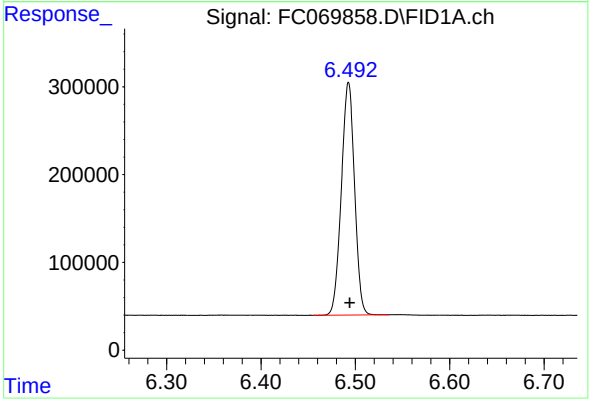
#2 n-Decane (C10)

R.T.: 4.470 min
Delta R.T.: -0.002 min
Response: 2431473
Conc: 18.30 ug/ml



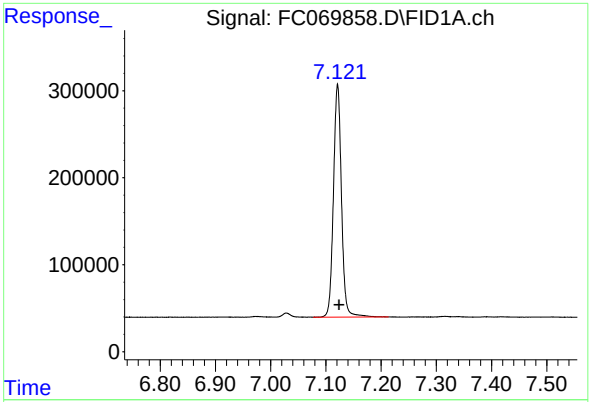
#3 A~Naphthalene (C11.7)

R.T.: 6.064 min
Delta R.T.: -0.003 min
Response: 2720396
Conc: 18.33 ug/ml



#4 n-Dodecane (C12)

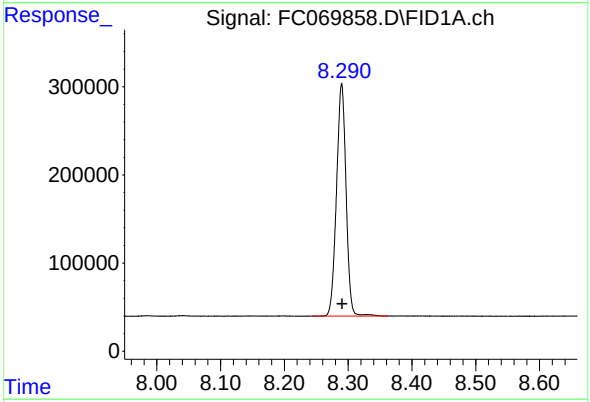
R.T.: 6.493 min
Delta R.T.: -0.001 min
Response: 2577600
Conc: 18.48 ug/ml



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

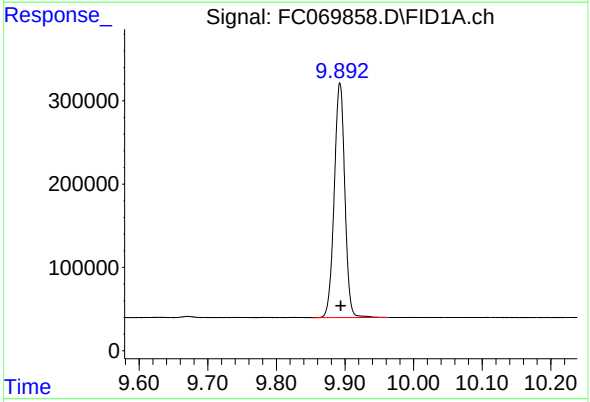
R.T.: 7.121 min
Delta R.T.: -0.003 min
Response: 2704654
Conc: 18.32 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



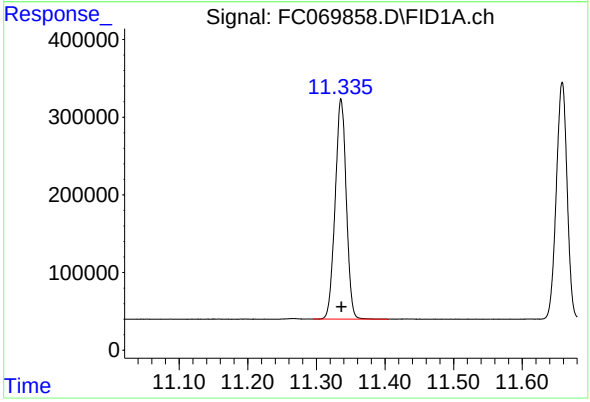
#6 n-Tetradecane (C14)

R.T.: 8.290 min
Delta R.T.: 0.000 min
Response: 2753403
Conc: 18.56 ug/ml



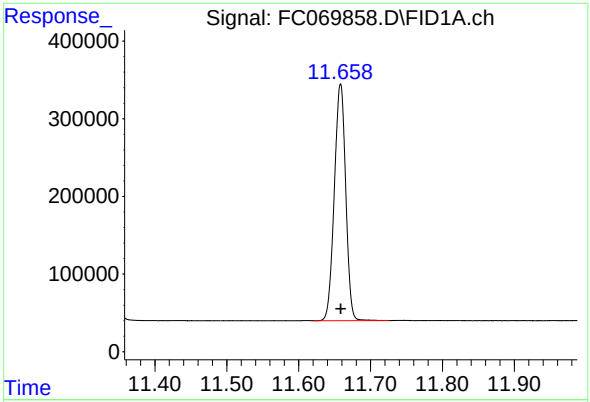
#7 n-Hexadecane (C16)

R.T.: 9.893 min
Delta R.T.: -0.001 min
Response: 3019947
Conc: 18.30 ug/ml



#8 n-Octadecane (C18)

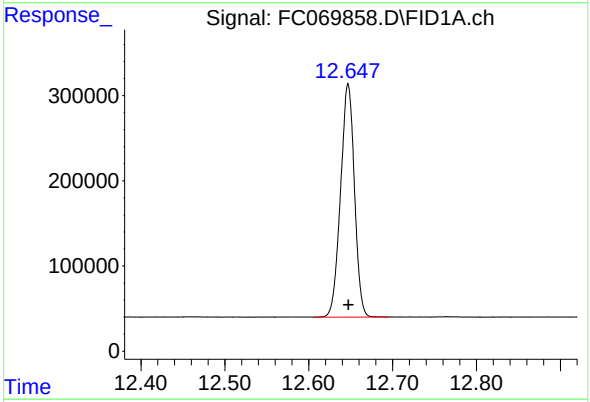
R.T.: 11.336 min
Delta R.T.: 0.000 min
Response: 3190611
Conc: 17.90 ug/ml



#9 ortho-Terphenyl (SURR)

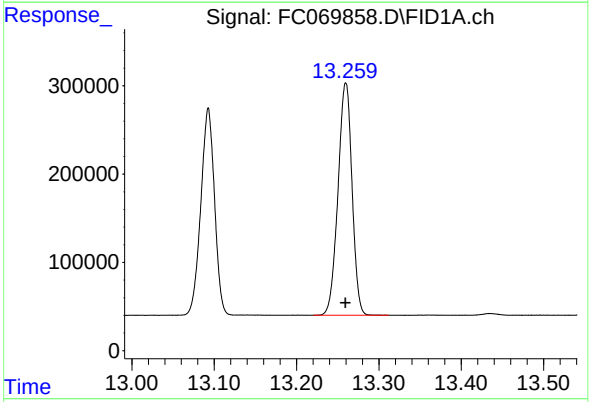
R.T.: 11.658 min
Delta R.T.: 0.000 min
Response: 3351415
Conc: 17.89 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



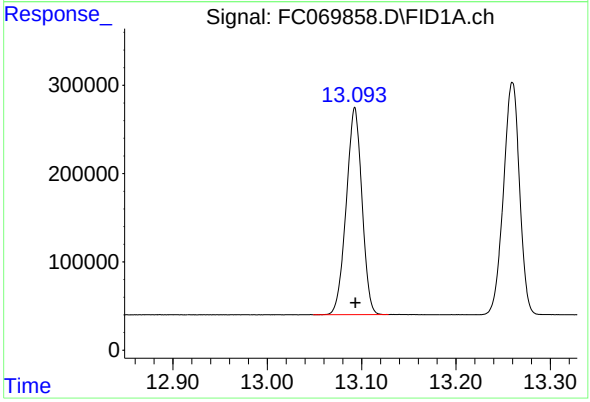
#10 n-Eicosane (C20)

R.T.: 12.647 min
Delta R.T.: 0.000 min
Response: 3147341
Conc: 17.47 ug/ml



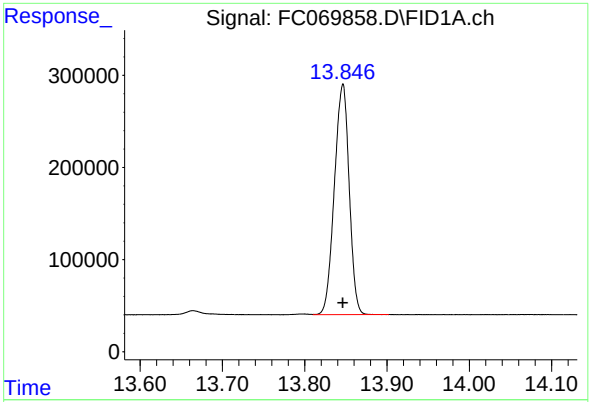
#11 n-Heneicosane (C21)

R.T.: 13.260 min
Delta R.T.: 0.000 min
Response: 3116984
Conc: 17.29 ug/ml



#12 1-chlorooctadecane (SURR)

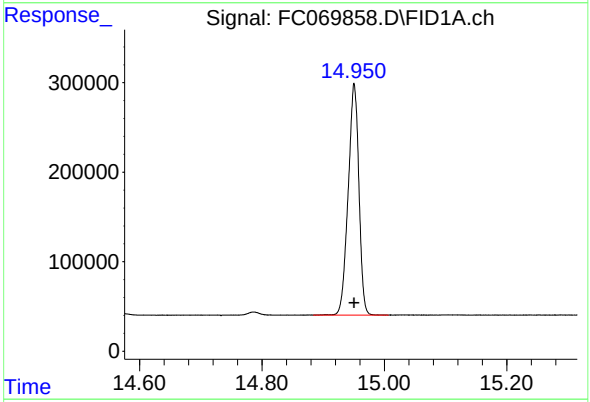
R.T.: 13.093 min
Delta R.T.: 0.000 min
Response: 2711205
Conc: 17.17 ug/ml



#13 n-Docosane (C22)

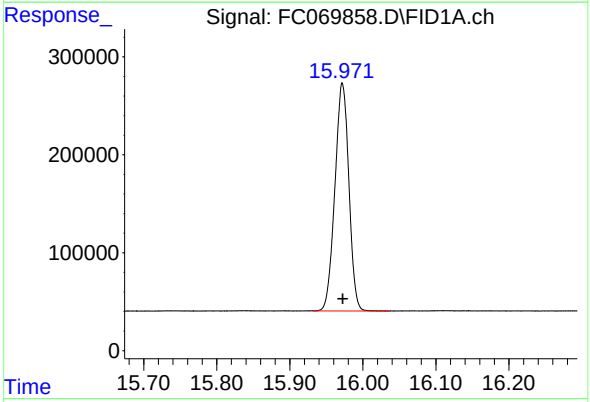
R.T.: 13.846 min
Delta R.T.: 0.000 min
Response: 3123975
Conc: 17.20 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



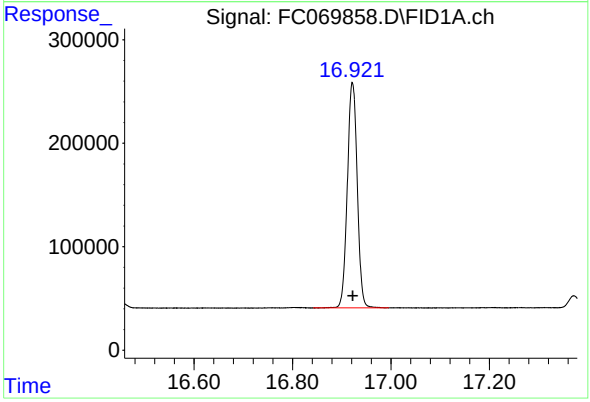
#14 n-Tetracosane (C24)

R.T.: 14.951 min
Delta R.T.: 0.000 min
Response: 3143707
Conc: 17.09 ug/ml



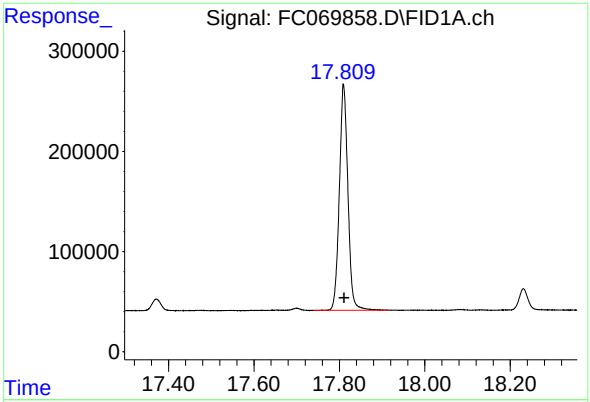
#15 n-Hexacosane (C26)

R.T.: 15.972 min
Delta R.T.: 0.000 min
Response: 3087344
Conc: 17.00 ug/ml



#16 n-Octacosane (C28)

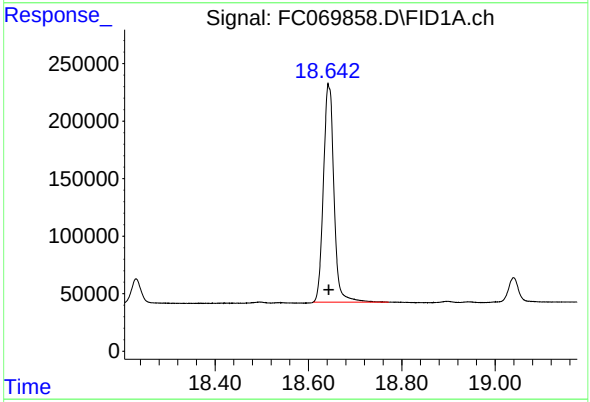
R.T.: 16.922 min
Delta R.T.: 0.000 min
Response: 3045750
Conc: 17.25 ug/ml



#17 n-Tricontane (C30)

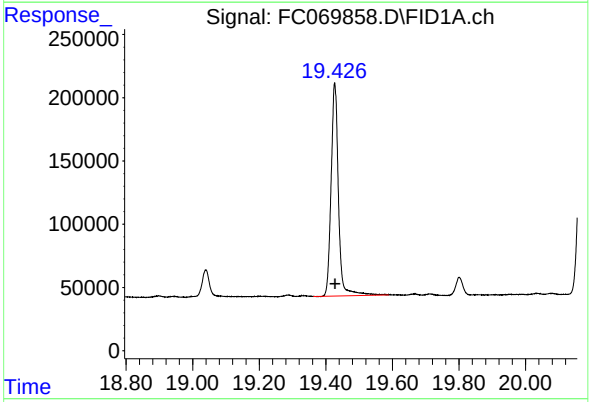
R.T.: 17.810 min
Delta R.T.: 0.000 min
Response: 3136925
Conc: 17.92 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



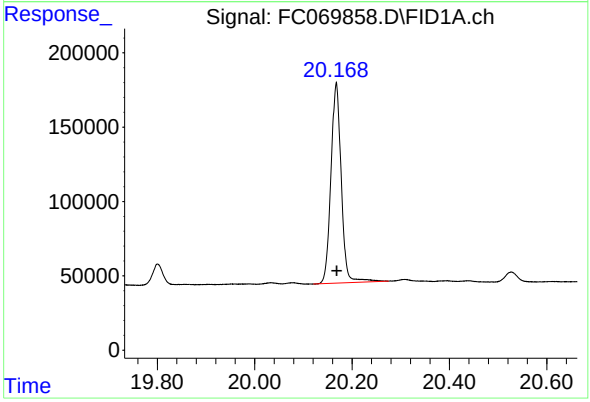
#18 n-Dotriacontane (C32)

R.T.: 18.644 min
Delta R.T.: 0.000 min
Response: 2971169
Conc: 18.36 ug/ml



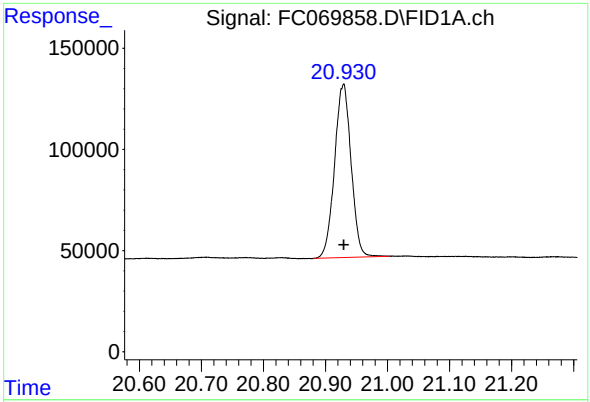
#19 n-Tetratriacontane (C34)

R.T.: 19.427 min
Delta R.T.: -0.001 min
Response: 2580273
Conc: 18.46 ug/ml



#20 n-Hexatriacontane (C36)

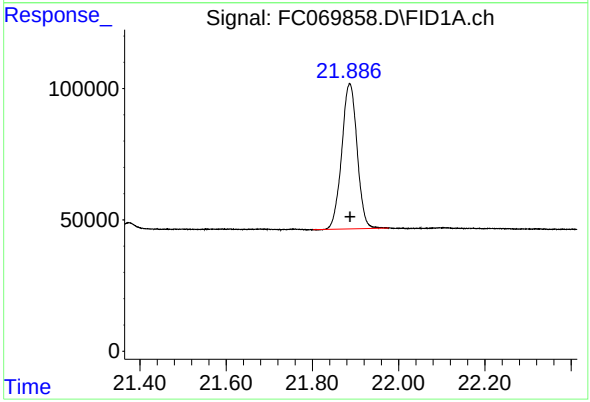
R.T.: 20.167 min
Delta R.T.: 0.000 min
Response: 1981749
Conc: 17.55 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.929 min
Delta R.T.: -0.001 min
Response: 1587412
Conc: 16.46 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD



#22 n-Tetracontane (C40)

R.T.: 21.887 min
Delta R.T.: -0.001 min
Response: 1371011
Conc: 15.92 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069858.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 16:04
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 092325.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	3.397	3.370	3.457	BB	276696	2309840	68.92%	3.846%
2	4.470	4.439	4.534	BB	273619	2431473	72.55%	4.048%
3	6.064	6.034	6.150	BB	286330	2720396	81.17%	4.529%
4	6.493	6.455	6.535	BB	265792	2577600	76.91%	4.291%
5	7.121	7.077	7.214	BB	267818	2704654	80.70%	4.503%
6	8.290	8.245	8.364	BB	264460	2753403	82.16%	4.584%
7	9.893	9.854	9.964	BB	282231	3019947	90.11%	5.028%
8	11.336	11.295	11.405	BB	281666	3190611	95.20%	5.312%
9	11.658	11.620	11.725	BB	305314	3351415	100.00%	5.580%
10	12.647	12.605	12.695	BB	273729	3147341	93.91%	5.240%
11	13.093	13.049	13.129	BB	235461	2711205	80.90%	4.514%
12	13.260	13.220	13.312	BB	263782	3116984	93.01%	5.189%
13	13.846	13.810	13.902	VB	251987	3123975	93.21%	5.201%
14	14.951	14.884	15.007	BB	258845	3143707	93.80%	5.234%
15	15.972	15.932	16.035	BB	232434	3087344	92.12%	5.140%
16	16.922	16.842	16.995	BB	217753	3045750	90.88%	5.071%
17	17.810	17.739	17.915	BB	224357	3136925	93.60%	5.223%
18	18.644	18.610	18.772	BB	187215	2971169	88.65%	4.947%
19	19.427	19.362	19.589	BB	168044	2580273	76.99%	4.296%
20	20.167	20.120	20.275	BB	134355	1981749	59.13%	3.299%
21	20.929	20.880	21.002	BB	85547	1587412	47.37%	2.643%
22	21.887	21.802	21.977	BB	55333	1371011	40.91%	2.283%
					Sum of corrected areas:	60064185		

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

Continuing Calibration Report for SequenceID : FD092625AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049765.D**						
Aromatic C10-C12	4686196.000	40.000	4.389	6.132	117154.900	116056.185	-0.947
Aromatic C12-C16	8384234.000	60.000	6.133	8.761	139737.233	135865.661	-2.850
Aromatic C16-C21	11343302.000	80.000	8.762	13.054	141791.275	135770.533	-4.434
Aromatic C21-C36	22066183.000	180.000	13.055	18.477	122589.906	118321.901	-3.607
Aromatic EPH	46479915.000	360.000	4.389	18.477	129110.875	124871.589	-3.395

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:	26 Sep 2025 09:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049765.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.389	6.132	4686196.000	40.000	ug/ml
Aromatic C12-C16	6.133	8.761	8384234.000	60.000	ug/ml
Aromatic C16-C21	8.762	13.054	11343302.000	80.000	ug/ml
Aromatic C21-C36	13.055	18.477	22066183.000	180.000	ug/ml
Aromatic EPH	4.389	18.477	46479915.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049765.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:09
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: Sep 29 00:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.697	2318618	20.617 ug/ml
Spiked Amount	50.000		Recovery =	41.23%
6) S	2-Flurobiphenyl (SURR)	8.562	1672243	20.832 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.66%
11) S	ortho-Terphenyl (SURR)	11.610	2989375	21.129 ug/ml
Spiked Amount	50.000		Recovery =	42.26%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.489	2148971	19.943 ug/ml
2) T	Naphthalene (C11.7)	6.032	2537225	20.402 ug/ml
3) T	2-Methylnaphthalene (...	7.087	2688970	20.632 ug/ml
5) T	Acenaphthylene (C15.06)	8.365	2842750	20.504 ug/ml
7) T	Acenaphthene (C15.5)	8.661	2852514	20.577 ug/ml
8) T	Flouorene (C16.55)	9.443	2888328	20.822 ug/ml
9) T	Phenanthrene (C19.36)	10.841	2922353	20.978 ug/ml
10) T	Anthracene (C19.43)	10.916	2689115	20.366 ug/ml
12) T	Fluoranthene (C21.85)	12.656	2872920	21.333 ug/ml
13) T	Pyrene (C20.8)	12.954	2843506	21.376 ug/ml
14) T	Benzo[a]anthracene (C...	14.827	2521711	21.087 ug/ml
15) T	Chrysene (C27.41)	14.869	2569554	21.122 ug/ml
16) T	benzo[b]fluoranthene ...	16.378	2490579	20.778 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.410	2333879	20.713 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.756	2397086	20.427 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.121	2177463	20.015 ug/ml
20) T	Dibenz[a,h]anthracene...	18.162	2365296	20.757 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.377	2337695	20.091 ug/ml

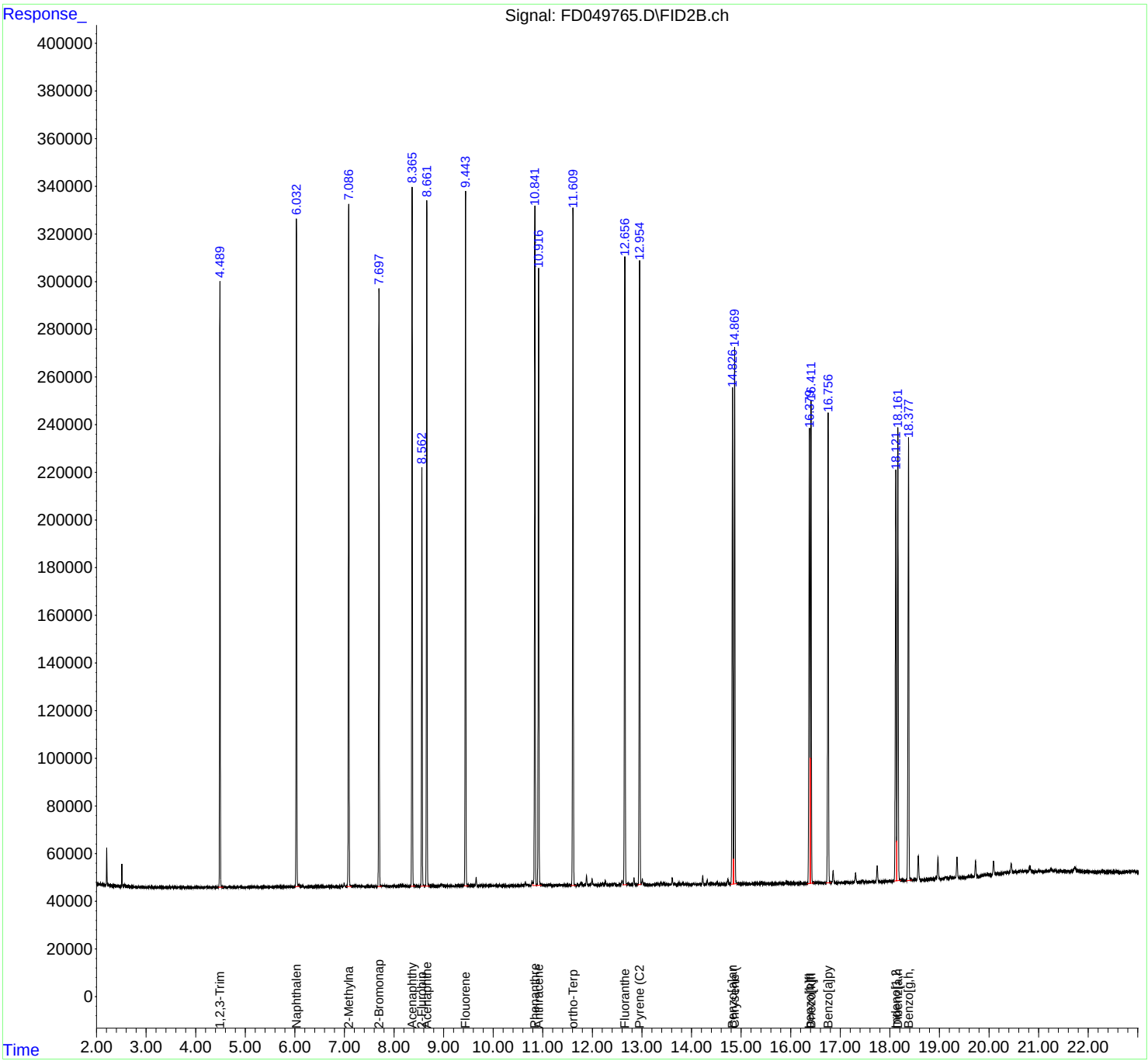
(f)=RT Delta > 1/2 Window (m)=manual int.

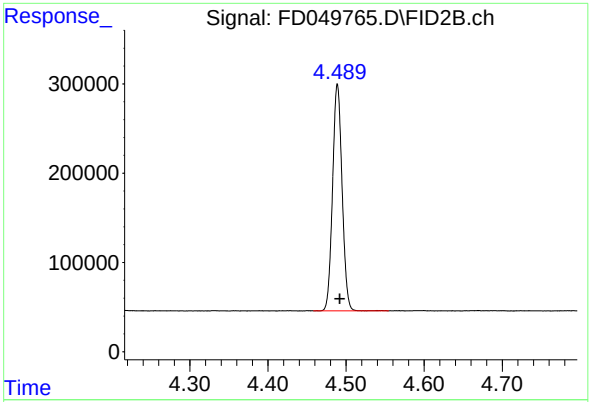
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049765.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:09
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 29 00:20:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

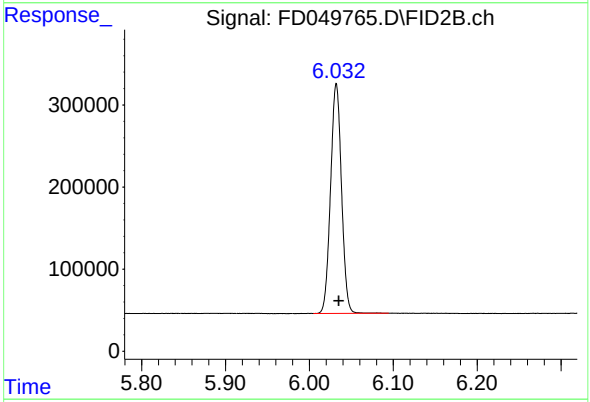




#1 1,2,3-Trimethylbenzene (C10.1)

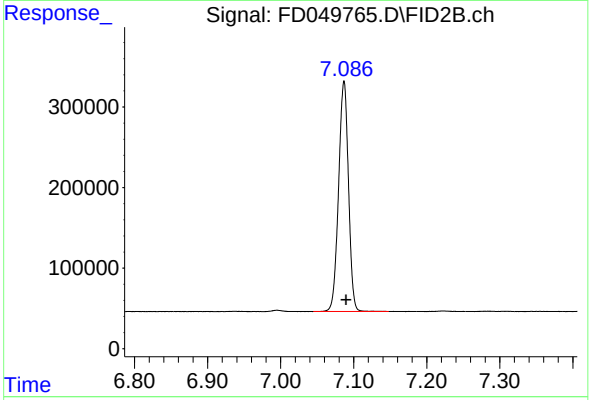
R.T.: 4.489 min
Delta R.T.: -0.003 min
Response: 2148971
Conc: 19.94 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



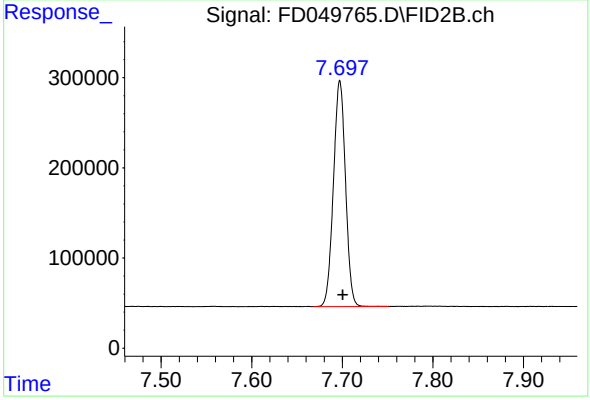
#2 Naphthalene (C11.7)

R.T.: 6.032 min
Delta R.T.: -0.003 min
Response: 2537225
Conc: 20.40 ug/ml



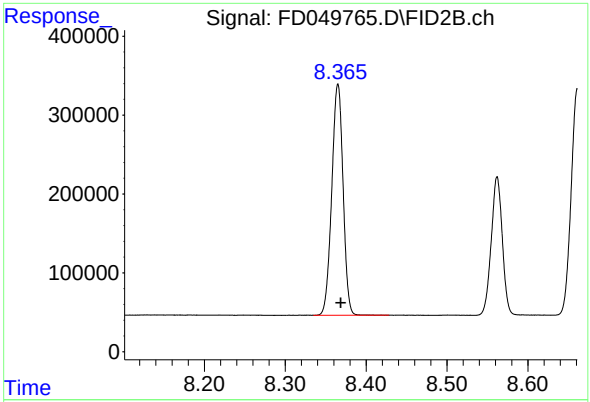
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.087 min
Delta R.T.: -0.003 min
Response: 2688970
Conc: 20.63 ug/ml



#4 2-Bromonaphthalene (SURR)

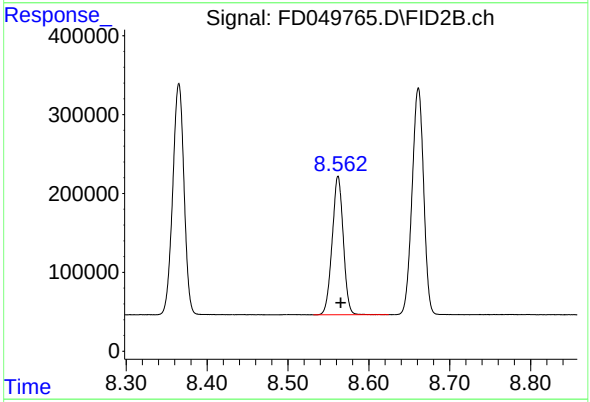
R.T.: 7.697 min
Delta R.T.: -0.003 min
Response: 2318618
Conc: 20.62 ug/ml



#5 Acenaphthylene (C15.06)

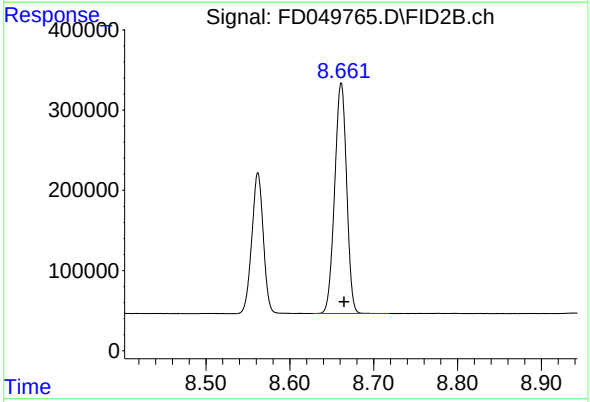
R.T.: 8.365 min
Delta R.T.: -0.004 min
Response: 2842750
Conc: 20.50 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



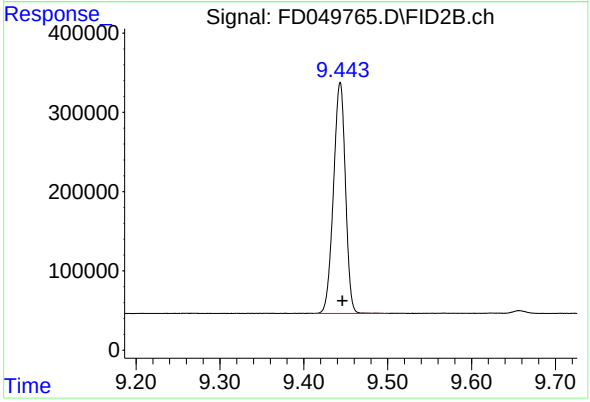
#6 2-Flurobiphenyl (SURR)

R.T.: 8.562 min
Delta R.T.: -0.003 min
Response: 1672243
Conc: 20.83 ug/ml



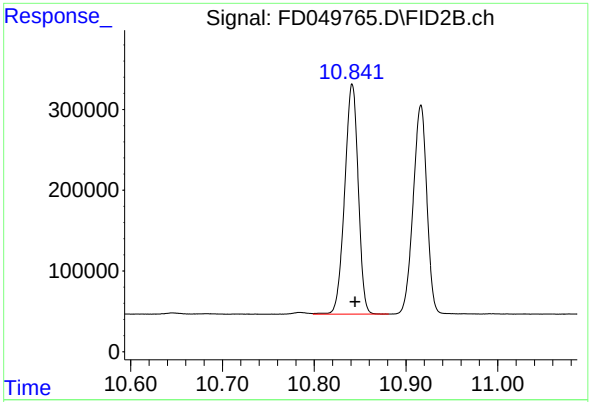
#7 Acenaphthene (C15.5)

R.T.: 8.661 min
Delta R.T.: -0.003 min
Response: 2852514
Conc: 20.58 ug/ml



#8 Flouorene (C16.55)

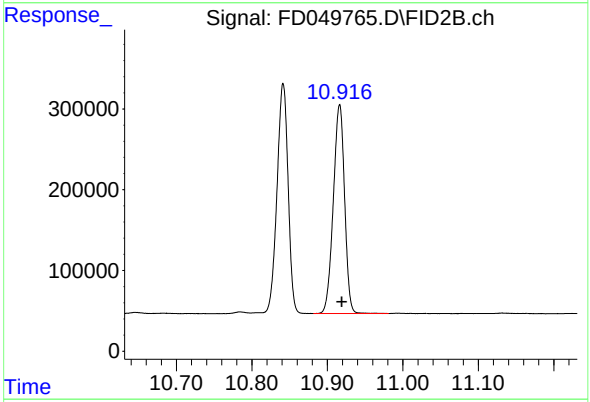
R.T.: 9.443 min
Delta R.T.: -0.003 min
Response: 2888328
Conc: 20.82 ug/ml



#9 Phenanthrene (C19.36)

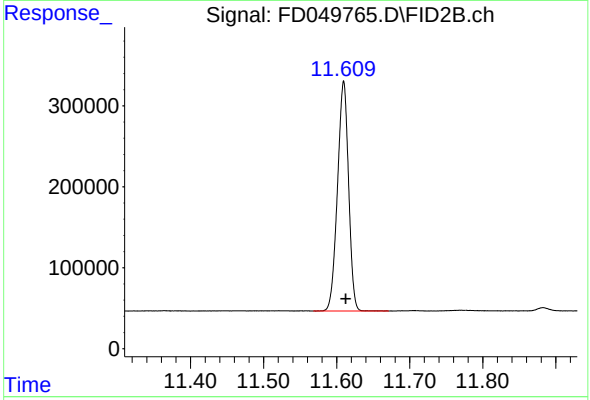
R.T.: 10.841 min
Delta R.T.: -0.003 min
Response: 2922353
Conc: 20.98 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



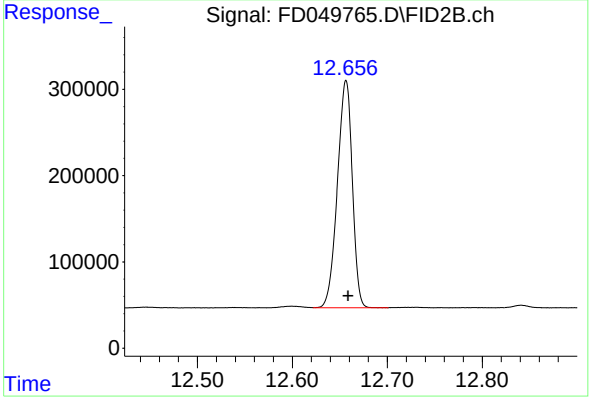
#10 Anthracene (C19.43)

R.T.: 10.916 min
Delta R.T.: -0.003 min
Response: 2689115
Conc: 20.37 ug/ml



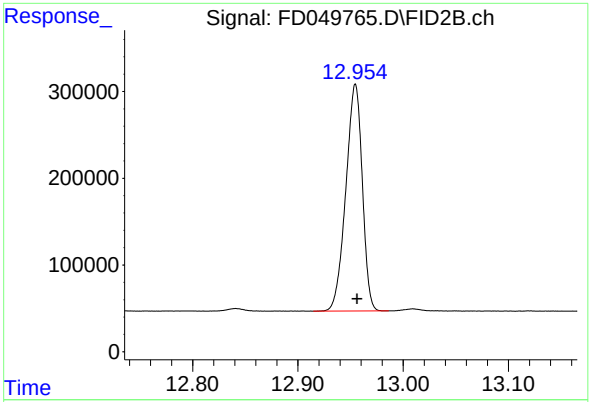
#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: -0.003 min
Response: 2989375
Conc: 21.13 ug/ml



#12 Fluoranthene (C21.85)

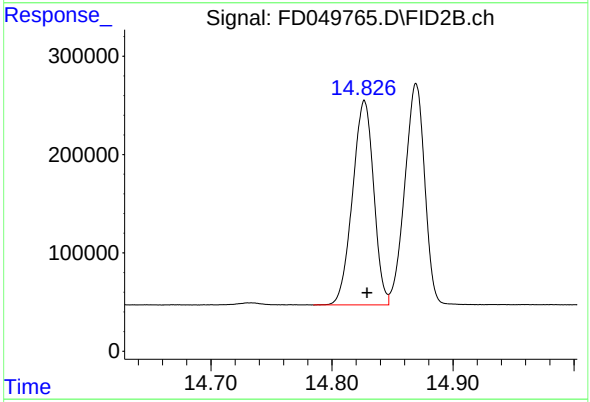
R.T.: 12.656 min
Delta R.T.: -0.002 min
Response: 2872920
Conc: 21.33 ug/ml



#13 Pyrene (C20.8)

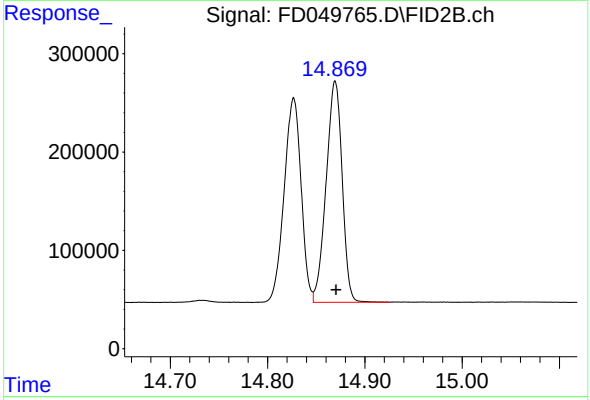
R.T.: 12.954 min
Delta R.T.: -0.002 min
Response: 2843506
Conc: 21.38 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



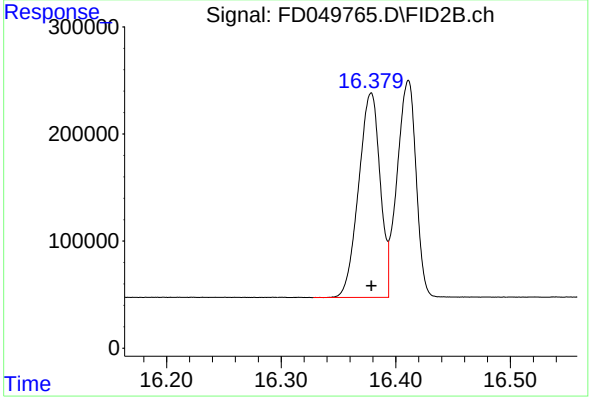
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.827 min
Delta R.T.: -0.002 min
Response: 2521711
Conc: 21.09 ug/ml



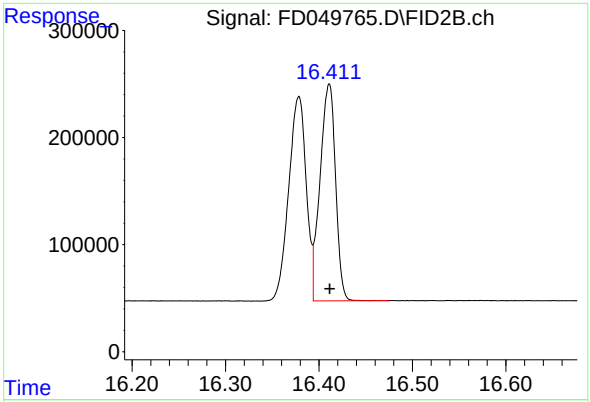
#15 Chrysene (C27.41)

R.T.: 14.869 min
Delta R.T.: -0.001 min
Response: 2569554
Conc: 21.12 ug/ml



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

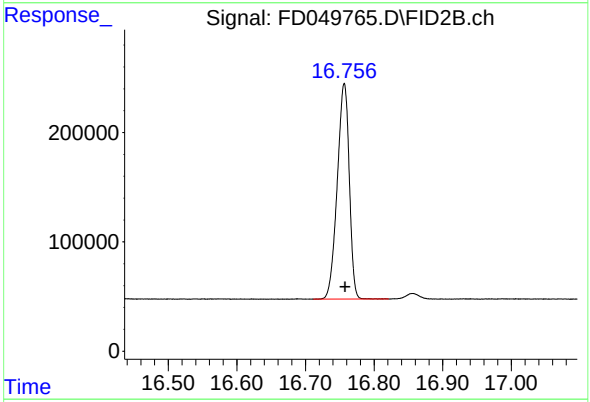
R.T.: 16.378 min
Delta R.T.: 0.000 min
Response: 2490579
Conc: 20.78 ug/ml



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

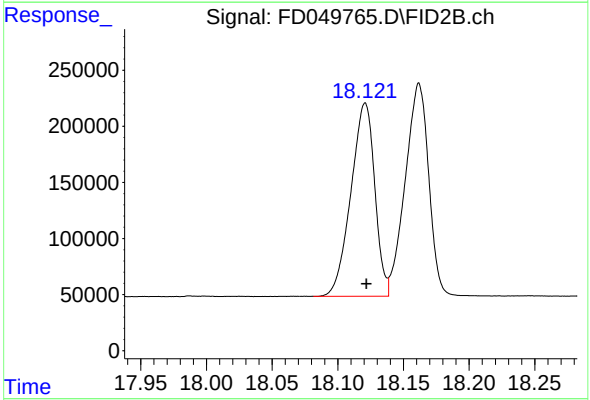
R.T.: 16.410 min
Delta R.T.: 0.000 min
Response: 2333879
Conc: 20.71 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



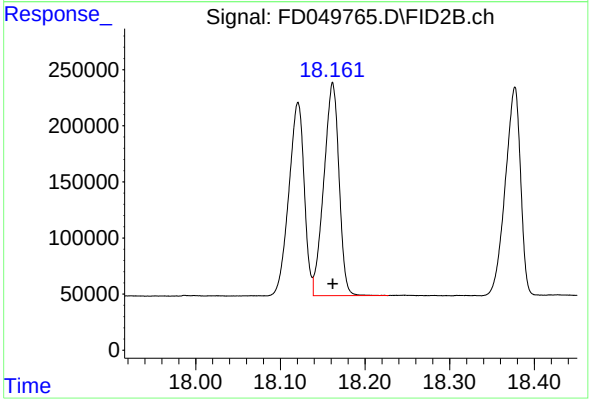
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.756 min
Delta R.T.: -0.001 min
Response: 2397086
Conc: 20.43 ug/ml



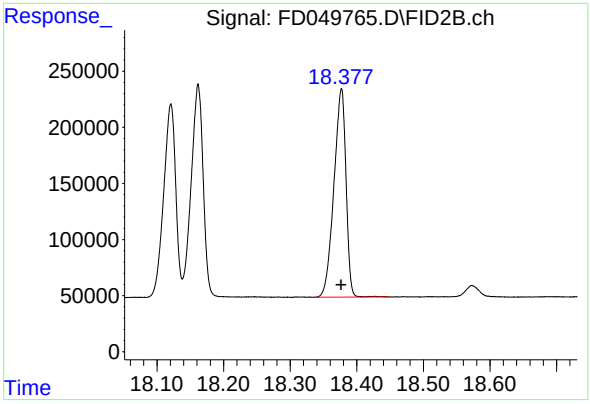
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.121 min
Delta R.T.: -0.001 min
Response: 2177463
Conc: 20.02 ug/ml



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

R.T.: 18.162 min
Delta R.T.: 0.000 min
Response: 2365296
Conc: 20.76 ug/ml



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

R.T.: 18.377 min
Delta R.T.: 0.000 min
Response: 2337695
Conc: 20.09 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049765.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 09:09
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 090425.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	4.489	4.458	4.555	BB	252740	2148971	71.89%	4.020%
2	6.032	6.005	6.095	BB	278866	2537225	84.87%	4.746%
3	7.087	7.045	7.148	BB	287288	2688970	89.95%	5.030%
4	7.697	7.668	7.751	BB	250365	2318618	77.56%	4.337%
5	8.365	8.335	8.428	BB	292896	2842750	95.10%	5.318%
6	8.562	8.531	8.625	BB	175308	1672243	55.94%	3.128%
7	8.661	8.628	8.718	BB	287758	2852514	95.42%	5.336%
8	9.443	9.411	9.501	BB	293411	2888328	96.62%	5.403%
9	10.841	10.799	10.881	VV	285444	2922353	97.76%	5.466%
10	10.916	10.881	10.981	VB	257126	2689115	89.96%	5.030%
11	11.610	11.568	11.671	BB	280113	2989375	100.00%	5.592%
12	12.656	12.622	12.701	VV	266127	2872920	96.10%	5.374%
13	12.954	12.915	12.986	BV	262229	2843506	95.12%	5.319%
14	14.827	14.785	14.847	BV	208415	2521711	84.36%	4.717%
15	14.869	14.847	14.925	VB	224080	2569554	85.96%	4.806%
16	16.378	16.328	16.394	BV	190952	2490579	83.31%	4.659%
17	16.411	16.394	16.475	VB	203878	2333879	78.07%	4.366%
18	16.756	16.711	16.821	BB	198013	2397086	80.19%	4.484%
19	18.121	18.081	18.139	BV	172912	2177463	72.84%	4.073%
20	18.162	18.139	18.228	VB	189503	2365296	79.12%	4.424%
21	18.377	18.335	18.448	BB	188172	2337695	78.20%	4.373%
			Sum of corrected areas:			53460148		

Aromatic EPH 090425.M Mon Sep 29 00:53:47 2025

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

Continuing Calibration Report for SequenceID : FD092625AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049771.D**						
Aromatic C10-C12	4880274.000	40.000	4.389	6.132	122006.850	116056.185	-5.127
Aromatic C12-C16	8569712.000	60.000	6.133	8.761	142828.533	135865.661	-5.125
Aromatic C16-C21	11430190.000	80.000	8.762	13.054	142877.375	135770.533	-5.234
Aromatic C21-C36	22186612.000	180.000	13.055	18.477	123258.956	118321.901	-4.173
Aromatic EPH	47066788.000	360.000	4.389	18.477	130741.078	124871.589	-4.700

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:	26 Sep 2025 13:39
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049771.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.389	6.132	4880274.000	40.000	ug/ml
Aromatic C12-C16	6.133	8.761	8569712.000	60.000	ug/ml
Aromatic C16-C21	8.762	13.054	11430190.000	80.000	ug/ml
Aromatic C21-C36	13.055	18.477	22186612.000	180.000	ug/ml
Aromatic EPH	4.389	18.477	47066788.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049771.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 13:39
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: Sep 29 00:22:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.697	2386131	21.217 ug/ml
Spiked Amount	50.000		Recovery =	42.43%
6) S	2-Flurobiphenyl (SURR)	8.562	1704033	21.228 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.46%
11) S	ortho-Terphenyl (SURR)	11.610	3004858	21.239 ug/ml
Spiked Amount	50.000		Recovery =	42.48%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	2246601	20.850 ug/ml
2) T	Naphthalene (C11.7)	6.032	2633673	21.178 ug/ml
3) T	2-Methylnaphthalene (...	7.086	2766872	21.229 ug/ml
5) T	Acenaphthylene (C15.06)	8.366	2897002	20.896 ug/ml
7) T	Acenaphthene (C15.5)	8.661	2905838	20.962 ug/ml
8) T	Flouorene (C16.55)	9.443	2923206	21.074 ug/ml
9) T	Phenanthrene (C19.36)	10.842	2948962	21.169 ug/ml
10) T	Anthracene (C19.43)	10.917	2703827	20.477 ug/ml
12) T	Fluoranthene (C21.85)	12.656	2885145	21.424 ug/ml
13) T	Pyrene (C20.8)	12.955	2854195	21.456 ug/ml
14) T	Benzo[a]anthracene (C...	14.827	2531624	21.170 ug/ml
15) T	Chrysene (C27.41)	14.870	2583200	21.234 ug/ml
16) T	benzo[b]fluoranthene ...	16.379	2482979	20.714 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.411	2339033	20.759 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.758	2396047	20.419 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.122	2204824	20.267 ug/ml
20) T	Dibenz[a,h]anthracene...	18.163	2426549	21.295 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.378	2337211	20.087 ug/ml

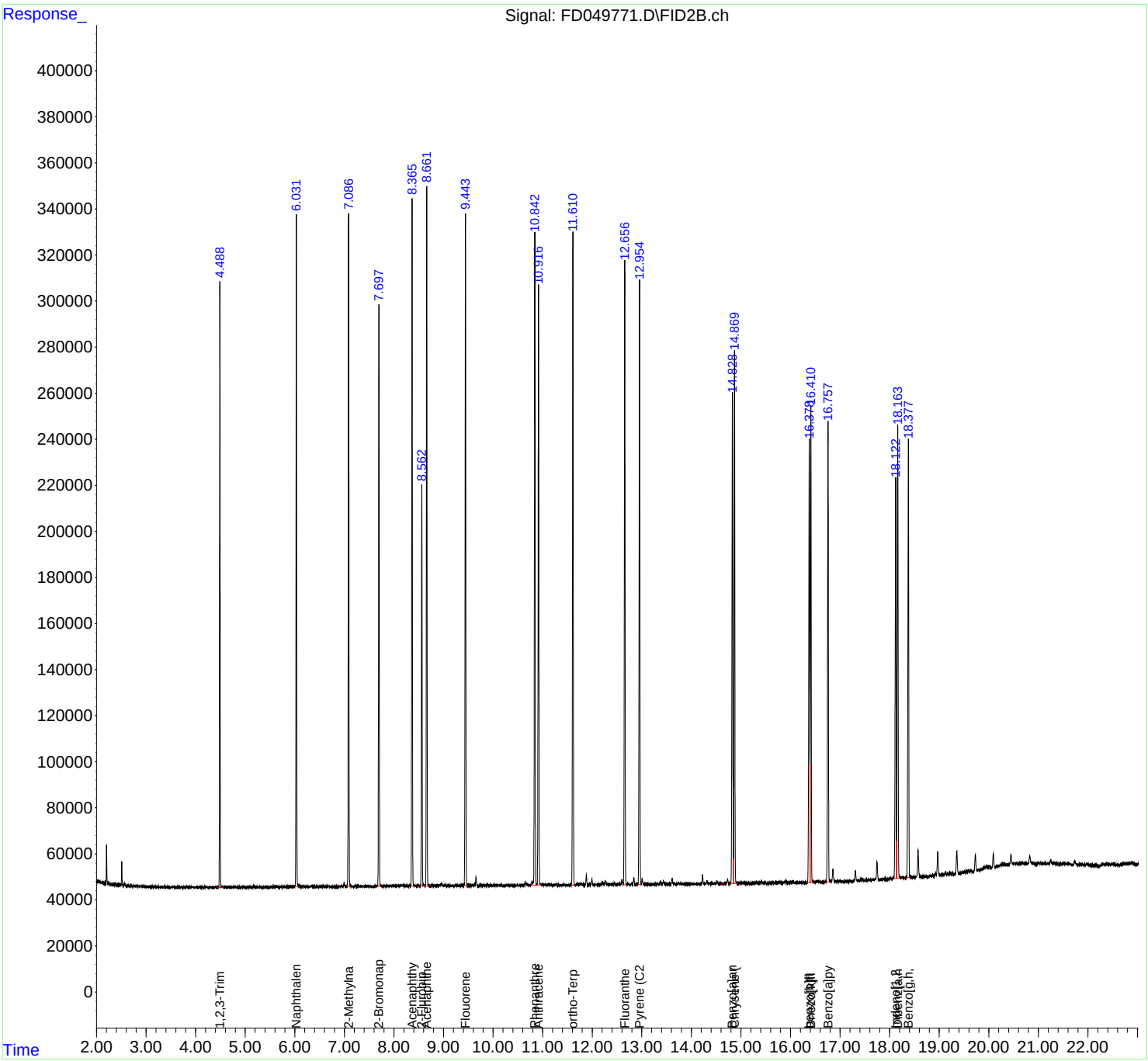
(f)=RT Delta > 1/2 Window (m)=manual int.

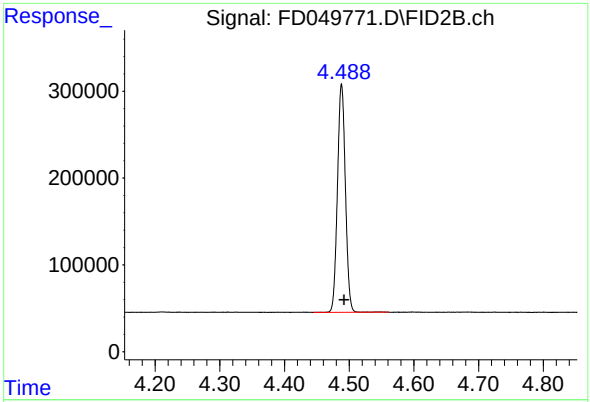
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049771.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 13:39
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 29 00:22:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

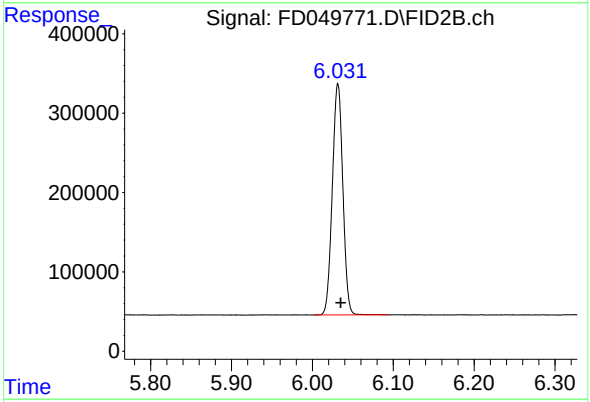




#1 1,2,3-Trimethylbenzene (C10.1)

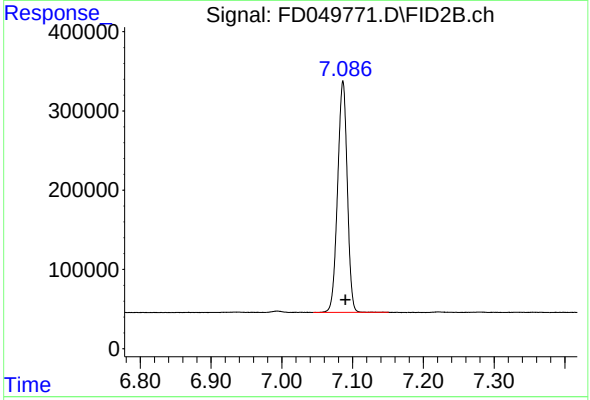
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 2246601
Conc: 20.85 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



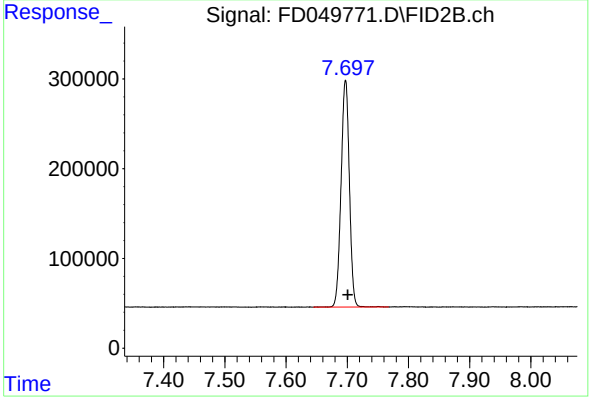
#2 Naphthalene (C11.7)

R.T.: 6.032 min
Delta R.T.: -0.004 min
Response: 2633673
Conc: 21.18 ug/ml



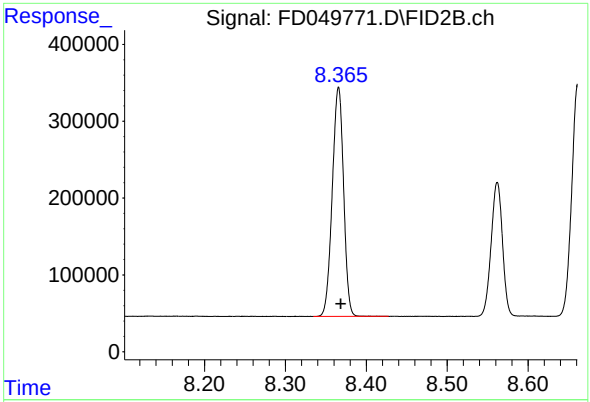
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.086 min
Delta R.T.: -0.003 min
Response: 2766872
Conc: 21.23 ug/ml



#4 2-Bromonaphthalene (SURR)

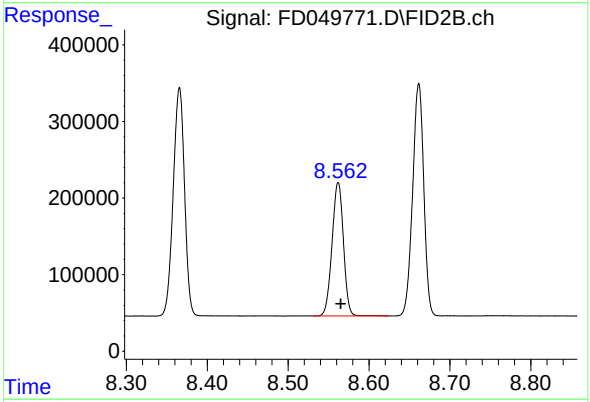
R.T.: 7.697 min
Delta R.T.: -0.003 min
Response: 2386131
Conc: 21.22 ug/ml



#5 Acenaphthylene (C15.06)

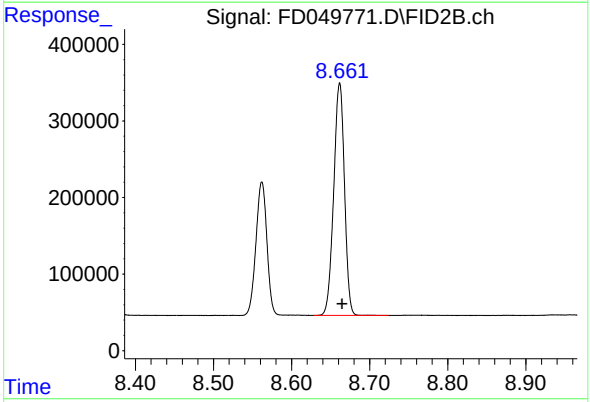
R.T.: 8.366 min
Delta R.T.: -0.003 min
Response: 2897002
Conc: 20.90 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



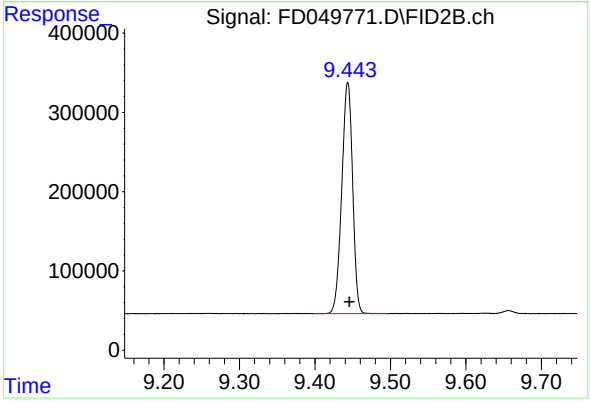
#6 2-Flurobiphenyl (SURR)

R.T.: 8.562 min
Delta R.T.: -0.003 min
Response: 1704033
Conc: 21.23 ug/ml



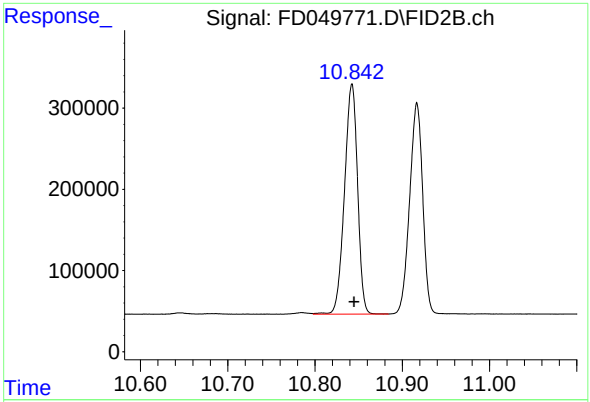
#7 Acenaphthene (C15.5)

R.T.: 8.661 min
Delta R.T.: -0.003 min
Response: 2905838
Conc: 20.96 ug/ml



#8 Flouorene (C16.55)

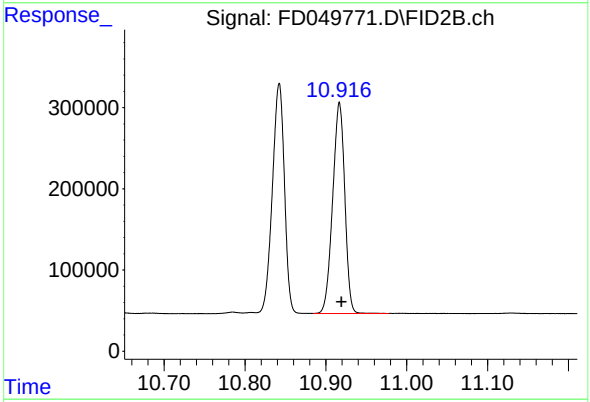
R.T.: 9.443 min
Delta R.T.: -0.002 min
Response: 2923206
Conc: 21.07 ug/ml



#9 Phenanthrene (C19.36)

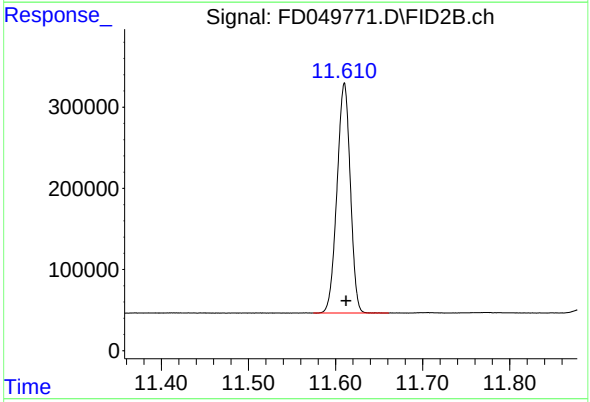
R.T.: 10.842 min
Delta R.T.: -0.002 min
Response: 2948962
Conc: 21.17 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



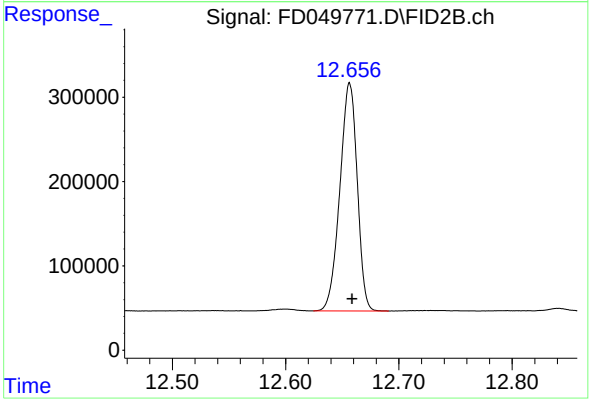
#10 Anthracene (C19.43)

R.T.: 10.917 min
Delta R.T.: -0.002 min
Response: 2703827
Conc: 20.48 ug/ml



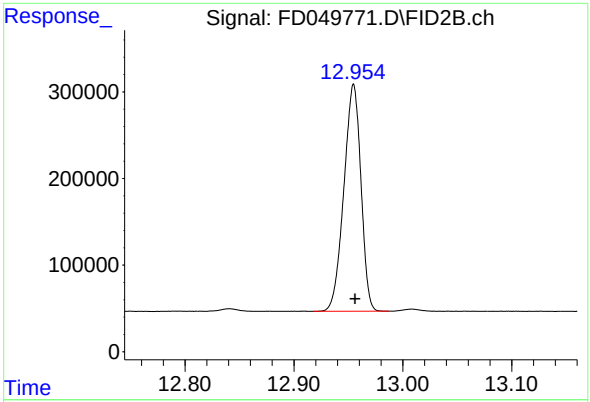
#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: -0.002 min
Response: 3004858
Conc: 21.24 ug/ml



#12 Fluoranthene (C21.85)

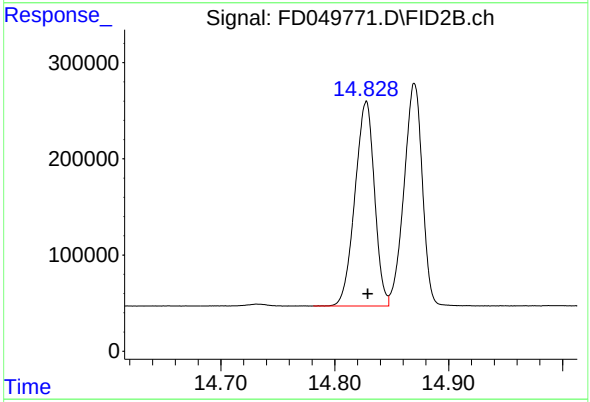
R.T.: 12.656 min
Delta R.T.: -0.002 min
Response: 2885145
Conc: 21.42 ug/ml



#13 Pyrene (C20.8)

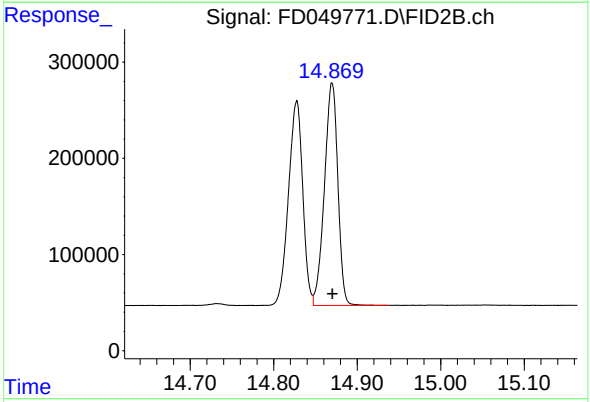
R.T.: 12.955 min
Delta R.T.: -0.002 min
Response: 2854195
Conc: 21.46 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



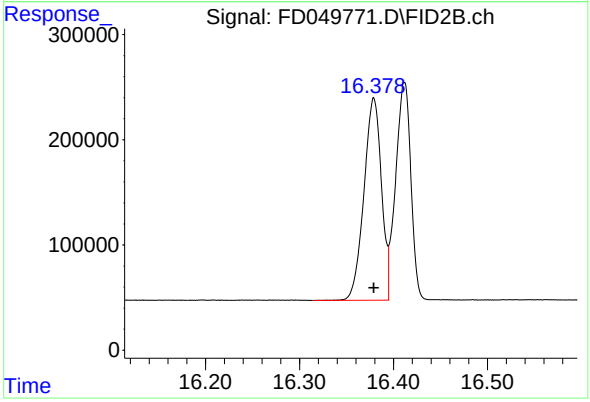
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.827 min
Delta R.T.: -0.002 min
Response: 2531624
Conc: 21.17 ug/ml



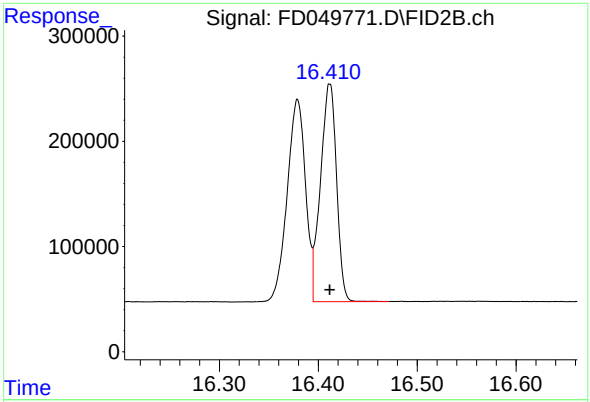
#15 Chrysene (C27.41)

R.T.: 14.870 min
Delta R.T.: 0.000 min
Response: 2583200
Conc: 21.23 ug/ml



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

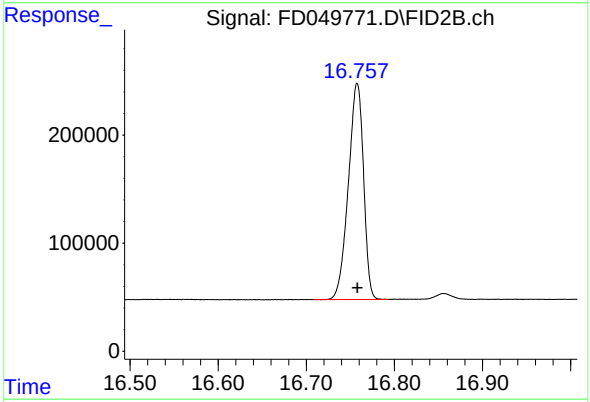
R.T.: 16.379 min
Delta R.T.: 0.000 min
Response: 2482979
Conc: 20.71 ug/ml



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

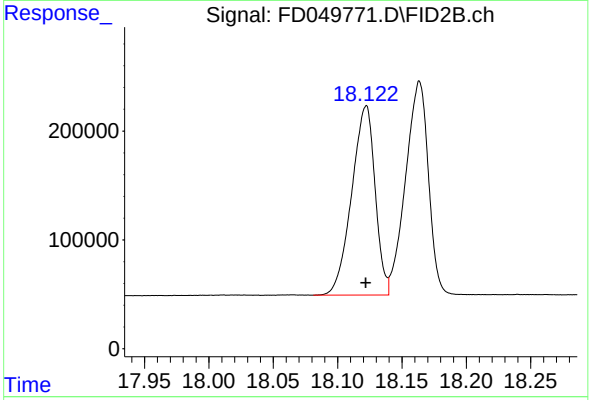
R.T.: 16.411 min
Delta R.T.: 0.000 min
Response: 2339033
Conc: 20.76 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



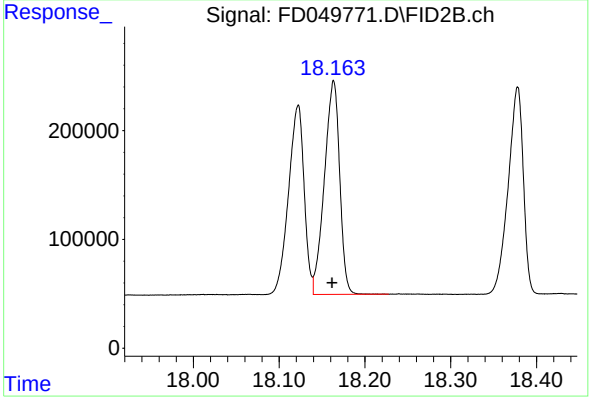
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.758 min
Delta R.T.: 0.000 min
Response: 2396047
Conc: 20.42 ug/ml



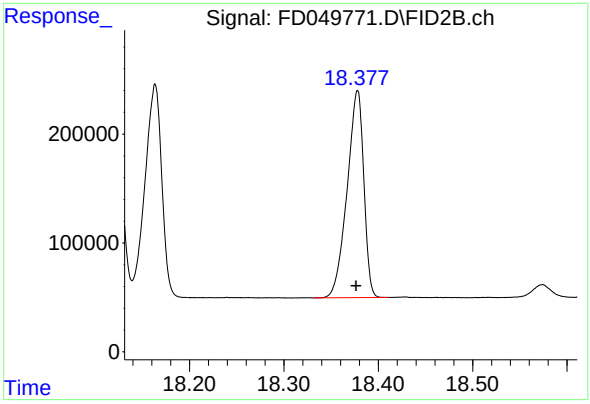
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.122 min
Delta R.T.: 0.000 min
Response: 2204824
Conc: 20.27 ug/ml



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

R.T.: 18.163 min
Delta R.T.: 0.001 min
Response: 2426549
Conc: 21.29 ug/ml



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

R.T.: 18.378 min
Delta R.T.: 0.001 min
Response: 2337211
Conc: 20.09 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049771.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 13:39
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 090425.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	4.488	4.444	4.561	BB	262397	2246601	74.77%	4.148%
2	6.032	6.001	6.094	BB	290921	2633673	87.65%	4.863%
3	7.086	7.044	7.151	BB	292598	2766872	92.08%	5.109%
4	7.697	7.644	7.768	BB	253715	2386131	79.41%	4.406%
5	8.366	8.334	8.428	BB	296376	2897002	96.41%	5.349%
6	8.562	8.531	8.624	BB	174258	1704033	56.71%	3.146%
7	8.661	8.628	8.724	BB	302970	2905838	96.70%	5.365%
8	9.443	9.398	9.498	BB	293216	2923206	97.28%	5.397%
9	10.842	10.798	10.884	VV	281714	2948962	98.14%	5.445%
10	10.917	10.884	10.978	VB	259742	2703827	89.98%	4.992%
11	11.610	11.574	11.661	BB	283637	3004858	100.00%	5.548%
12	12.656	12.624	12.691	VV	271062	2885145	96.02%	5.327%
13	12.955	12.918	12.987	BV	261667	2854195	94.99%	5.270%
14	14.827	14.781	14.847	BV	213358	2531624	84.25%	4.674%
15	14.870	14.847	14.938	VB	232715	2583200	85.97%	4.769%
16	16.379	16.314	16.395	BV	191561	2482979	82.63%	4.584%
17	16.411	16.395	16.471	VB	208302	2339033	77.84%	4.319%
18	16.758	16.708	16.793	BB	200642	2396047	79.74%	4.424%
19	18.122	18.081	18.140	BV	173261	2204824	73.38%	4.071%
20	18.163	18.140	18.228	VB	197913	2426549	80.75%	4.480%
21	18.378	18.331	18.411	BV	190931	2337211	77.78%	4.315%
			Sum of corrected areas:			54161810		

Aromatic EPH 090425.M Mon Sep 29 00:55:39 2025

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

Continuing Calibration Report for SequenceID : FD100125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049783.D**						
Aromatic C12-C16	8582976.000	60.000	6.132	8.760	143049.600	135865.661	-5.288
Aromatic C10-C12	4896792.000	40.000	4.388	6.131	122419.800	116056.185	-5.483
Aromatic C16-C21	11236332.000	80.000	8.761	13.050	140454.150	135770.533	-3.450
Aromatic C21-C36	21941719.000	180.000	13.051	18.471	121898.439	118321.901	-3.023
Aromatic EPH	46657819.000	360.000	4.388	18.471	129605.053	124871.589	-3.791

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:	01 Oct 2025 09:40
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049783.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.388	6.131	4896792.000	40.000	ug/ml
Aromatic C12-C16	6.132	8.760	8582976.000	60.000	ug/ml
Aromatic C16-C21	8.761	13.050	11236332.000	80.000	ug/ml
Aromatic C21-C36	13.051	18.471	21941719.000	180.000	ug/ml
Aromatic EPH	4.388	18.471	46657819.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049783.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 09:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 02 10:15:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.695	2375494	21.122 ug/ml
Spiked Amount	50.000		Recovery =	42.24%
6) S	2-Flurobiphenyl (SURR)	8.560	1698219	21.156 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.31%
11) S	ortho-Terphenyl (SURR)	11.607	3000449	21.207 ug/ml
Spiked Amount	50.000		Recovery =	42.41%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.488	2254581	20.924 ug/ml
2) T	Naphthalene (C11.7)	6.031	2642211	21.247 ug/ml
3) T	2-Methylnaphthalene (...	7.085	2752121	21.116 ug/ml
5) T	Acenaphthylene (C15.06)	8.364	2916875	21.039 ug/ml
7) T	Acenaphthene (C15.5)	8.660	2913980	21.021 ug/ml
8) T	Flouorene (C16.55)	9.441	2921379	21.060 ug/ml
9) T	Phenanthrene (C19.36)	10.838	2898872	20.810 ug/ml
10) T	Anthracene (C19.43)	10.913	2586861	19.591 ug/ml
12) T	Fluoranthene (C21.85)	12.653	2860953	21.244 ug/ml
13) T	Pyrene (C20.8)	12.950	2829220	21.268 ug/ml
14) T	Benzo[a]anthracene (C...	14.822	2470231	20.657 ug/ml
15) T	Chrysene (C27.41)	14.865	2545429	20.924 ug/ml
16) T	benzo[b]fluoranthene ...	16.374	2467708	20.587 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.406	2330342	20.682 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.751	2376610	20.253 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.116	2155227	19.811 ug/ml
20) T	Dibenz[a,h]anthracene...	18.157	2408887	21.140 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.371	2326332	19.993 ug/ml

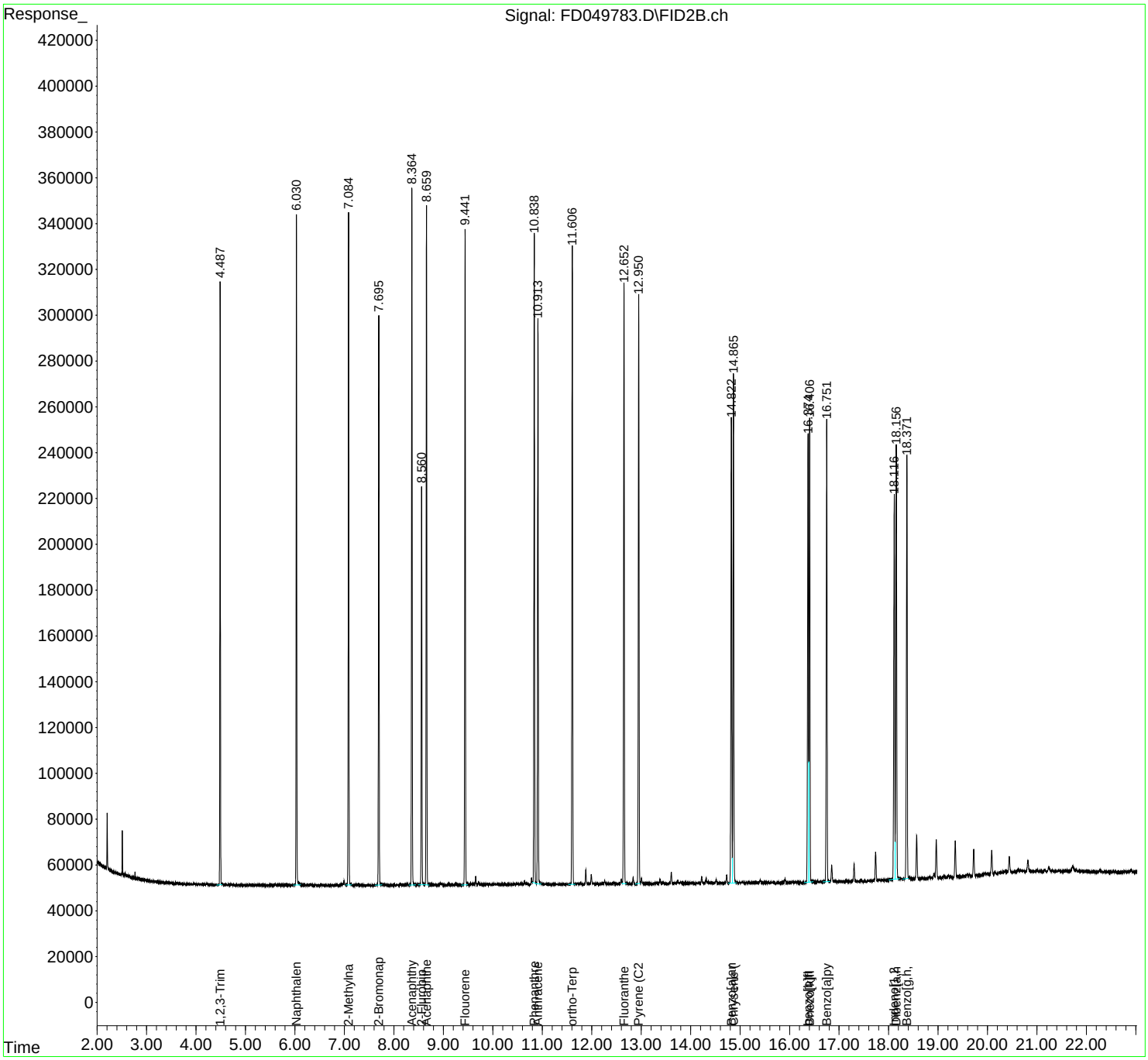
(f)=RT Delta > 1/2 Window (m)=manual int.

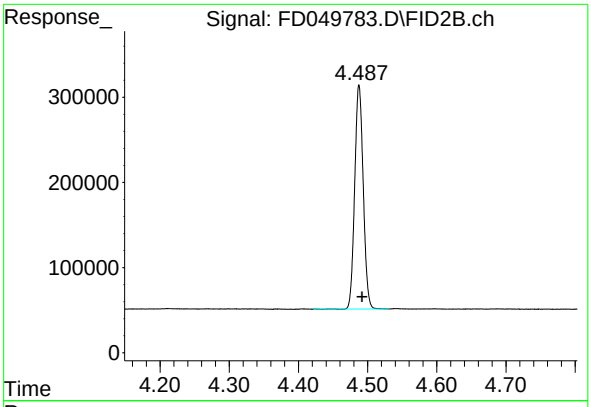
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049783.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 09:40
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 02 10:15:24 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

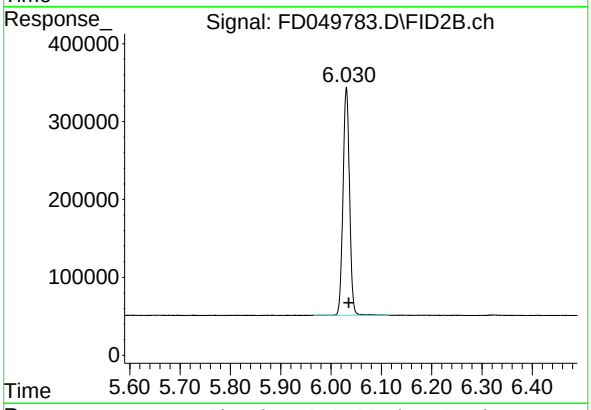




#1 1,2,3-Trimethylbenzene (C10.1)

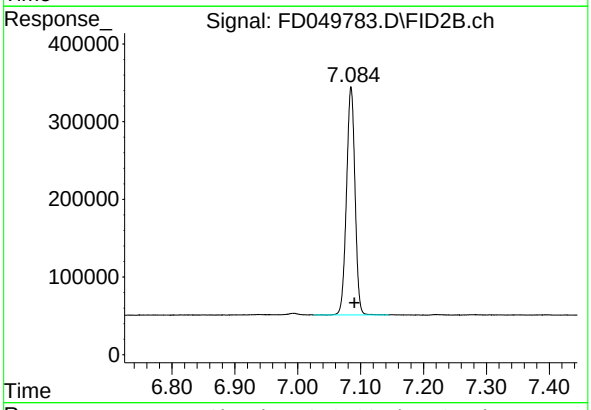
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 2254581
Conc: 20.92 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



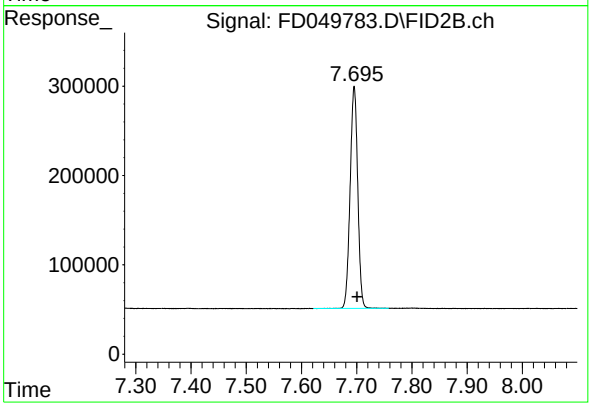
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: -0.004 min
Response: 2642211
Conc: 21.25 ug/ml



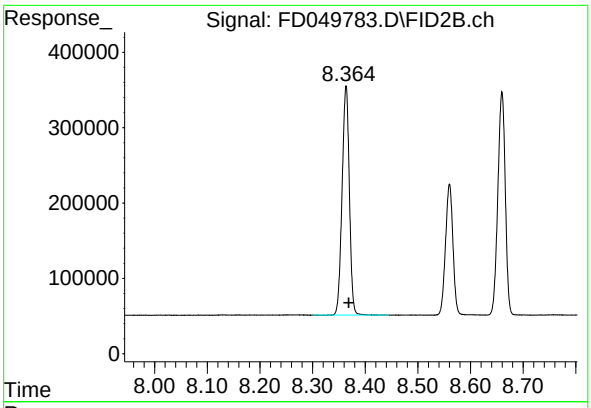
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.085 min
Delta R.T.: -0.005 min
Response: 2752121
Conc: 21.12 ug/ml



#4 2-Bromonaphthalene (SURR)

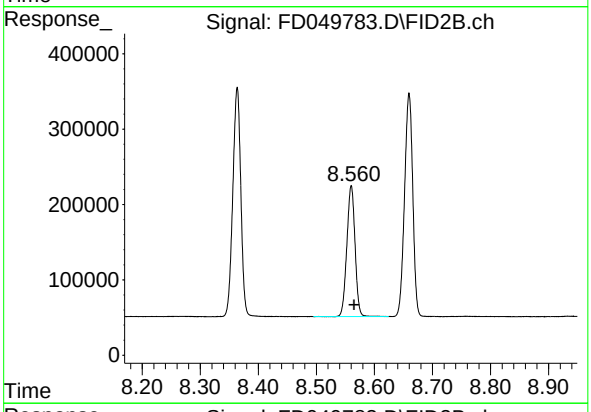
R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 2375494
Conc: 21.12 ug/ml



#5 Acenaphthylene (C15.06)

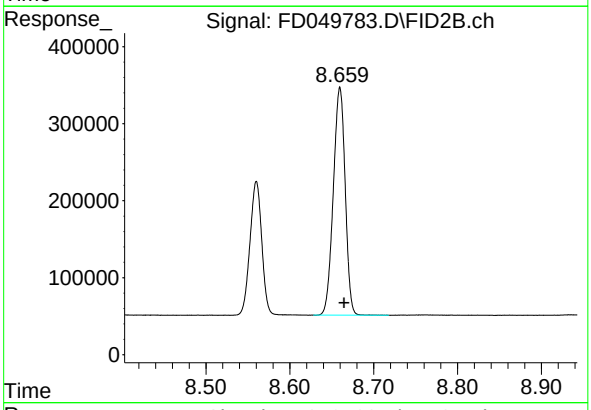
R.T.: 8.364 min
Delta R.T.: -0.005 min
Response: 2916875
Conc: 21.04 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



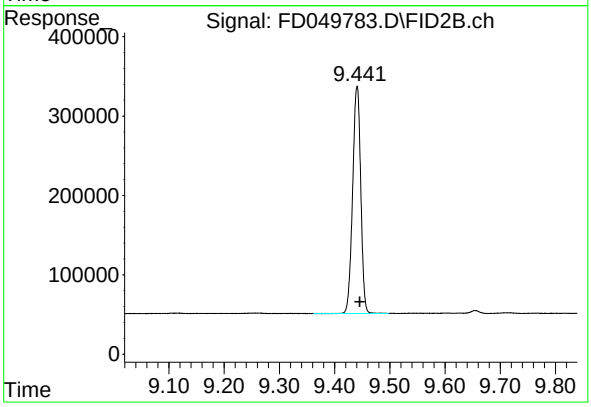
#6 2-Flurobiphenyl (SURR)

R.T.: 8.560 min
Delta R.T.: -0.005 min
Response: 1698219
Conc: 21.16 ug/ml



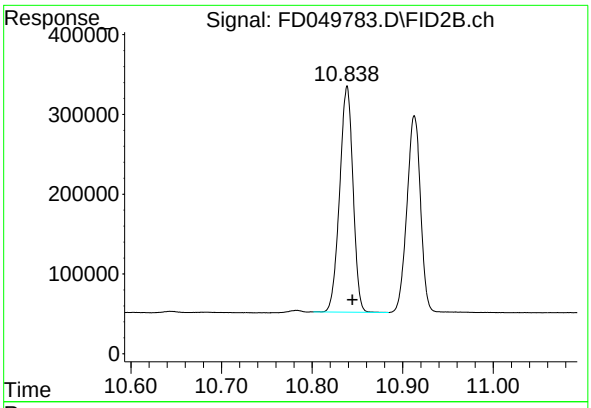
#7 Acenaphthene (C15.5)

R.T.: 8.660 min
Delta R.T.: -0.005 min
Response: 2913980
Conc: 21.02 ug/ml



#8 Flouorene (C16.55)

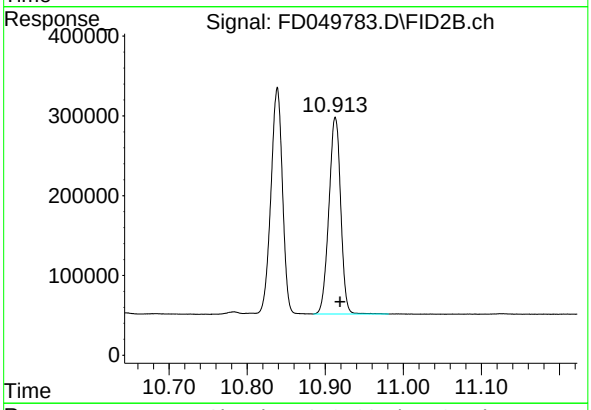
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 2921379
Conc: 21.06 ug/ml



#9 Phenanthrene (C19.36)

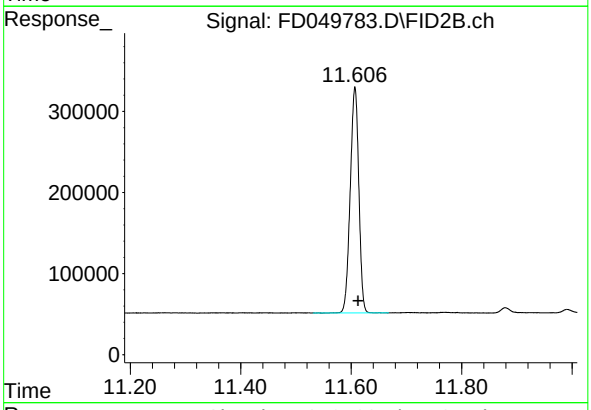
R.T.: 10.838 min
Delta R.T.: -0.006 min
Response: 2898872
Conc: 20.81 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



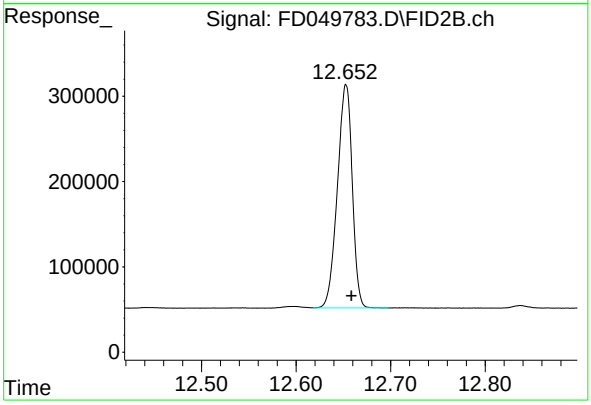
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: -0.006 min
Response: 2586861
Conc: 19.59 ug/ml



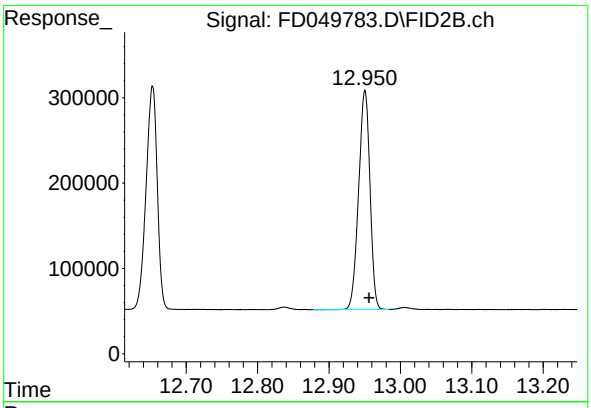
#11 ortho-Terphenyl (SURR)

R.T.: 11.607 min
Delta R.T.: -0.005 min
Response: 3000449
Conc: 21.21 ug/ml



#12 Fluoranthene (C21.85)

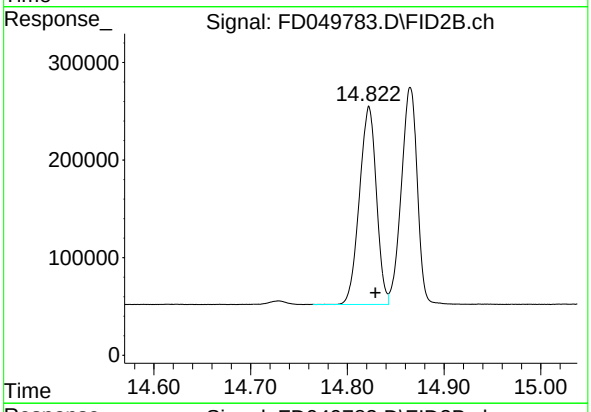
R.T.: 12.653 min
Delta R.T.: -0.006 min
Response: 2860953
Conc: 21.24 ug/ml



#13 Pyrene (C20.8)

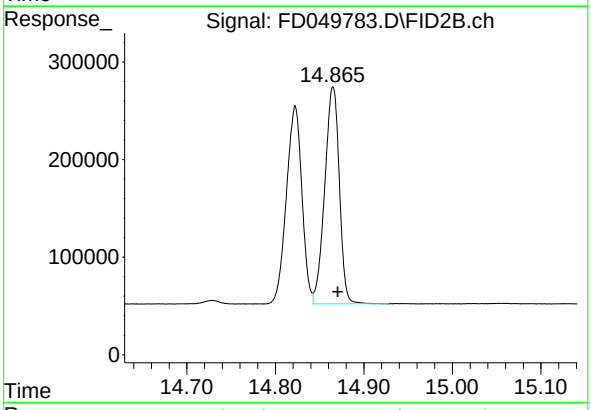
R.T.: 12.950 min
Delta R.T.: -0.006 min
Response: 2829220
Conc: 21.27 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



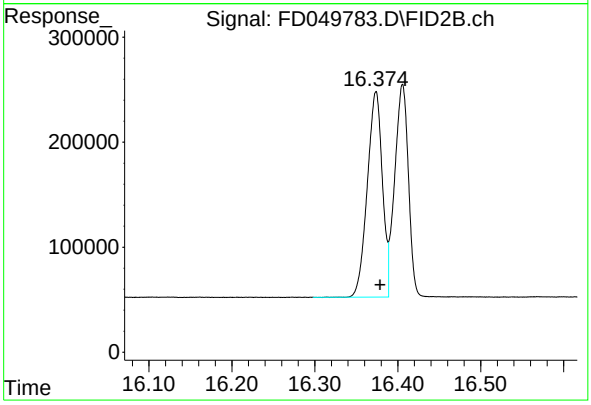
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.822 min
Delta R.T.: -0.007 min
Response: 2470231
Conc: 20.66 ug/ml



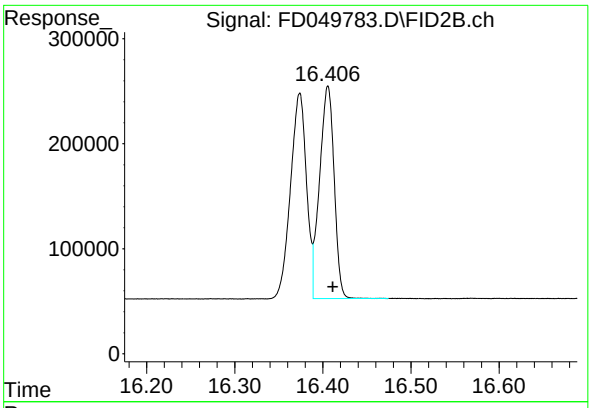
#15 Chrysene (C27.41)

R.T.: 14.865 min
Delta R.T.: -0.005 min
Response: 2545429
Conc: 20.92 ug/ml



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

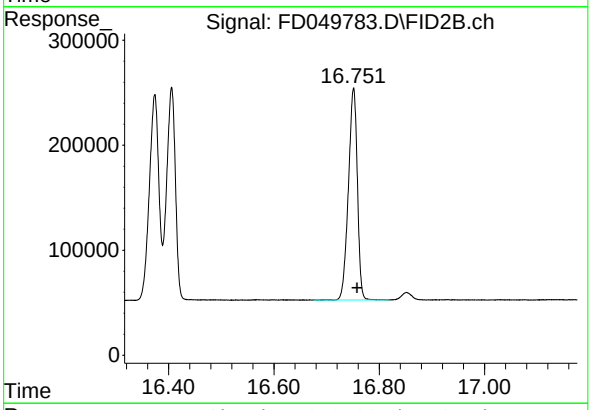
R.T.: 16.374 min
Delta R.T.: -0.005 min
Response: 2467708
Conc: 20.59 ug/ml



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

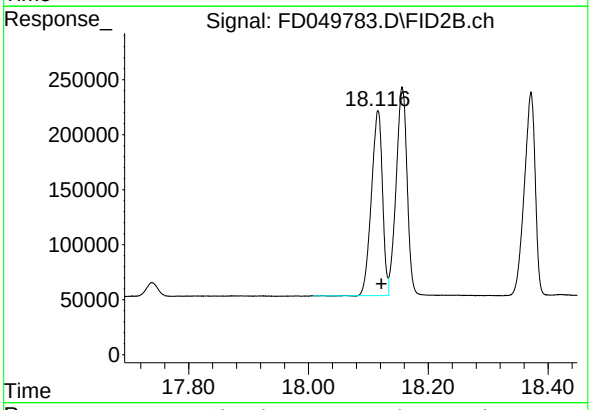
R.T.: 16.406 min
Delta R.T.: -0.006 min
Response: 2330342
Conc: 20.68 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



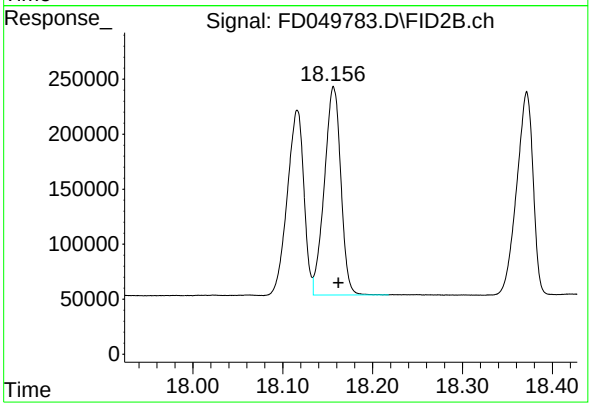
#18 Benzo[a]pyryene (C31.34)

R.T.: 16.751 min
Delta R.T.: -0.007 min
Response: 2376610
Conc: 20.25 ug/ml



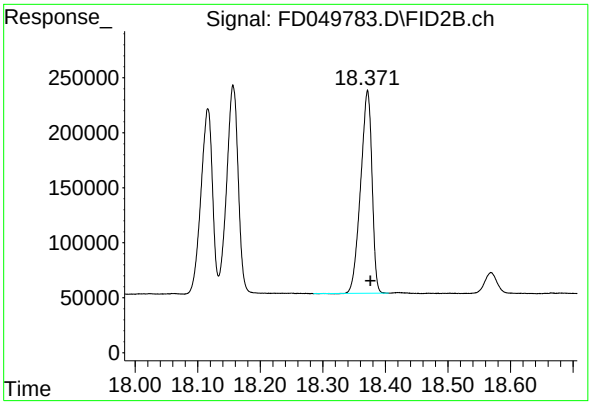
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.116 min
Delta R.T.: -0.006 min
Response: 2155227
Conc: 19.81 ug/ml



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

R.T.: 18.157 min
Delta R.T.: -0.005 min
Response: 2408887
Conc: 21.14 ug/ml



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

R.T.: 18.371 min
Delta R.T.: -0.005 min
Response: 2326332
Conc: 19.99 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049783.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 09:40
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 090425.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	4.488	4.421	4.530	BV	262454	2254581	75.14%	4.196%
2	6.031	5.965	6.115	BB	291514	2642211	88.06%	4.917%
3	7.085	7.025	7.145	BB	292953	2752121	91.72%	5.122%
4	7.695	7.621	7.758	BB	246815	2375494	79.17%	4.421%
5	8.364	8.301	8.445	BB	305609	2916875	97.21%	5.429%
6	8.560	8.495	8.625	BB	173866	1698219	56.60%	3.161%
7	8.660	8.628	8.718	BB	296696	2913980	97.12%	5.423%
8	9.441	9.361	9.498	BB	287277	2921379	97.36%	5.437%
9	10.838	10.801	10.885	BV	281539	2898872	96.61%	5.395%
10	10.913	10.885	10.981	PB	247322	2586861	86.22%	4.814%
11	11.607	11.531	11.668	BB	279156	3000449	100.00%	5.584%
12	12.653	12.618	12.698	VB	260321	2860953	95.35%	5.324%
13	12.950	12.878	12.984	BV	257417	2829220	94.29%	5.265%
14	14.822	14.765	14.843	BV	200968	2470231	82.33%	4.597%
15	14.865	14.843	14.928	VB	223011	2545429	84.83%	4.737%
16	16.374	16.298	16.389	BV	196840	2467708	82.24%	4.593%
17	16.406	16.389	16.475	VB	201794	2330342	77.67%	4.337%
18	16.751	16.675	16.818	BB	201919	2376610	79.21%	4.423%
19	18.116	18.008	18.134	BV	167552	2155227	71.83%	4.011%
20	18.157	18.134	18.218	VB	189257	2408887	80.28%	4.483%
21	18.371	18.285	18.405	BV	184485	2326332	77.53%	4.330%
			Sum of corrected areas:			53731981		

Aromatic EPH 090425.M Thu Oct 02 10:19:52 2025

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

Continuing Calibration Report for SequenceID : FD100125AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD049788.D**						
Aromatic C12-C16	8674705.000	60.000	6.132	8.760	144578.417	135865.661	-6.413
Aromatic C10-C12	4962988.000	40.000	4.388	6.131	124074.700	116056.185	-6.909
Aromatic C16-C21	11282024.000	80.000	8.761	13.050	141025.300	135770.533	-3.870
Aromatic C21-C36	22104953.000	180.000	13.051	18.471	122805.294	118321.901	-3.789
Aromatic EPH	47024670.000	360.000	4.388	18.471	130624.083	124871.589	-4.607

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:	01 Oct 2025 17:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FD049788.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.388	6.131	4962988.000	40.000	ug/ml
Aromatic C12-C16	6.132	8.760	8674705.000	60.000	ug/ml
Aromatic C16-C21	8.761	13.050	11282024.000	80.000	ug/ml
Aromatic C21-C36	13.051	18.471	22104953.000	180.000	ug/ml
Aromatic EPH	4.388	18.471	47024670.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049788.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 02 10:17:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.695	2398303	21.325	ug/ml
Spiked Amount	50.000		Recovery =	42.65%	
6) S	2-Flurobiphenyl (SURR)	8.560	1714721	21.362	ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.72%	
11) S	ortho-Terphenyl (SURR)	11.606	3007878	21.260	ug/ml
Spiked Amount	50.000		Recovery =	42.52%	
	Target Compounds				
1) T	1,2,3-Trimethylbenzen...	4.487	2298452	21.331	ug/ml
2) T	Naphthalene (C11.7)	6.030	2664536	21.426	ug/ml
3) T	2-Methylnaphthalene (...	7.084	2796996	21.460	ug/ml
5) T	Acenaphthylene (C15.06)	8.363	2938048	21.192	ug/ml
7) T	Acenaphthene (C15.5)	8.659	2939661	21.206	ug/ml
8) T	Flouorene (C16.55)	9.441	2942831	21.215	ug/ml
9) T	Phenanthrene (C19.36)	10.838	2932132	21.049	ug/ml
10) T	Anthracene (C19.43)	10.913	2585175	19.579	ug/ml
12) T	Fluoranthene (C21.85)	12.652	2854909	21.199	ug/ml
13) T	Pyrene (C20.8)	12.950	2821886	21.213	ug/ml
14) T	Benzo[a]anthracene (C...	14.822	2479767	20.736	ug/ml
15) T	Chrysene (C27.41)	14.865	2557659	21.024	ug/ml
16) T	benzo[b]fluoranthene ...	16.373	2468734	20.595	ug/ml
17) T	Bnezo[k]fluoranthene ...	16.406	2334251	20.717	ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.751	2374794	20.237	ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.115	2198563	20.209	ug/ml
20) T	Dibenz[a,h]anthracene...	18.157	2500361	21.943	ug/ml
21) T	Benzo[g,h,i]perylene ...	18.371	2335915	20.075	ug/ml

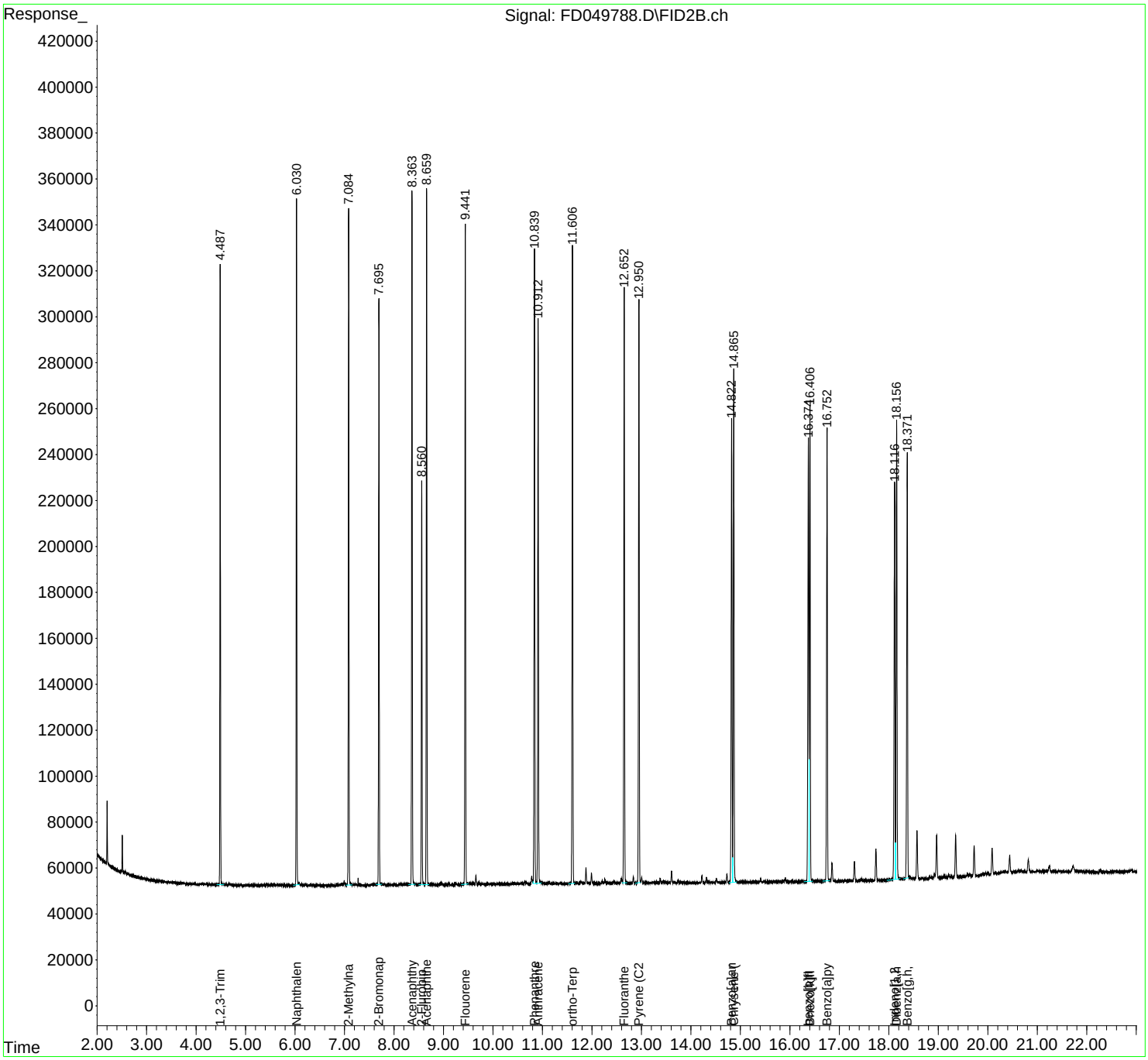
(f)=RT Delta > 1/2 Window (m)=manual int.

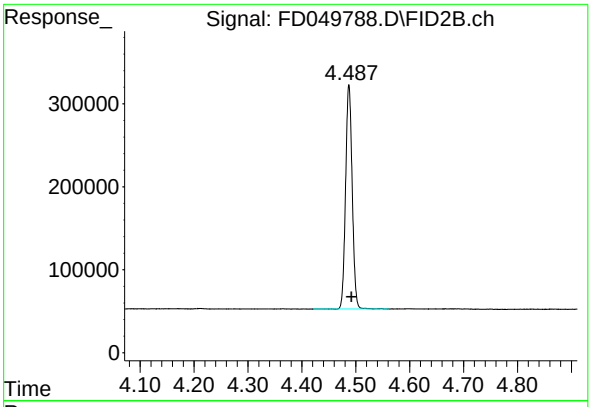
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049788.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 02 10:17:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

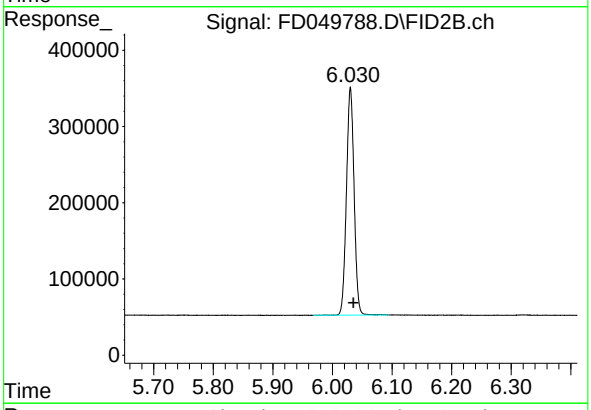




#1 1,2,3-Trimethylbenzene (C10.1)

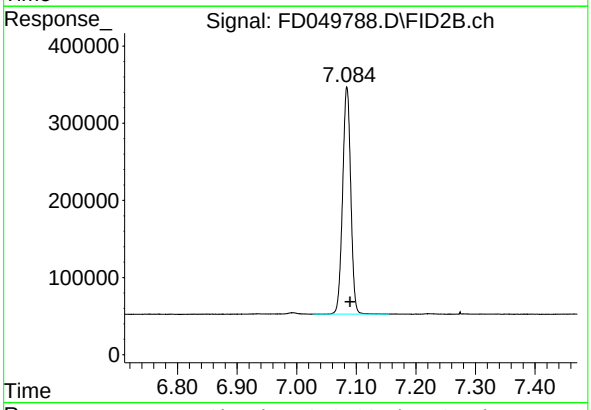
R.T.: 4.487 min
Delta R.T.: -0.005 min
Response: 2298452
Conc: 21.33 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



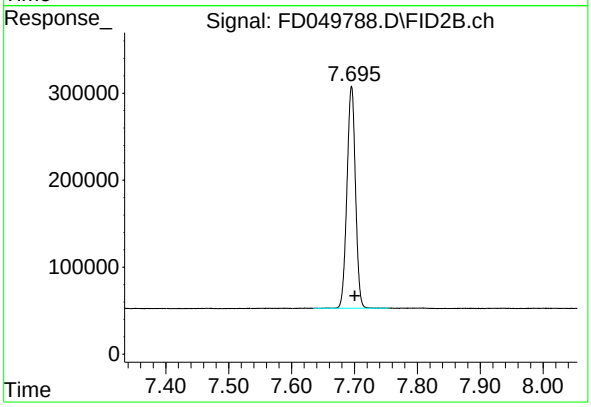
#2 Naphthalene (C11.7)

R.T.: 6.030 min
Delta R.T.: -0.005 min
Response: 2664536
Conc: 21.43 ug/ml



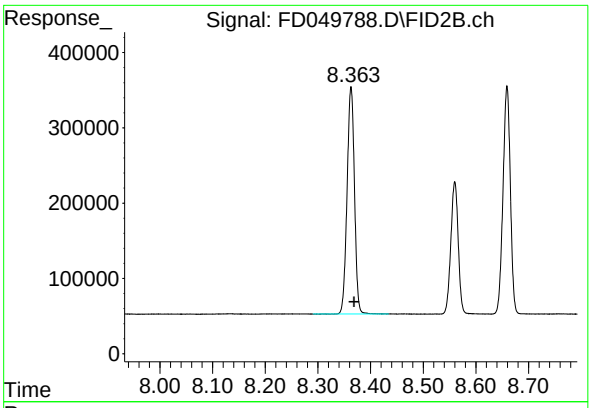
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.084 min
Delta R.T.: -0.005 min
Response: 2796996
Conc: 21.46 ug/ml



#4 2-Bromonaphthalene (SURR)

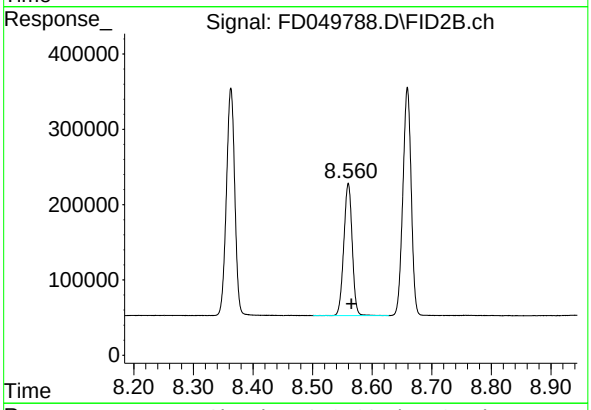
R.T.: 7.695 min
Delta R.T.: -0.005 min
Response: 2398303
Conc: 21.33 ug/ml



#5 Acenaphthylene (C15.06)

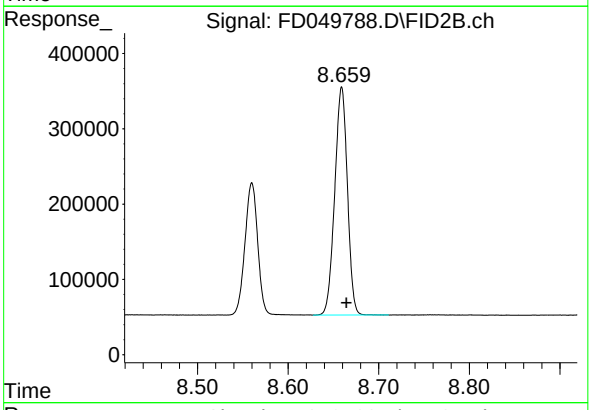
R.T.: 8.363 min
Delta R.T.: -0.006 min
Response: 2938048
Conc: 21.19 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



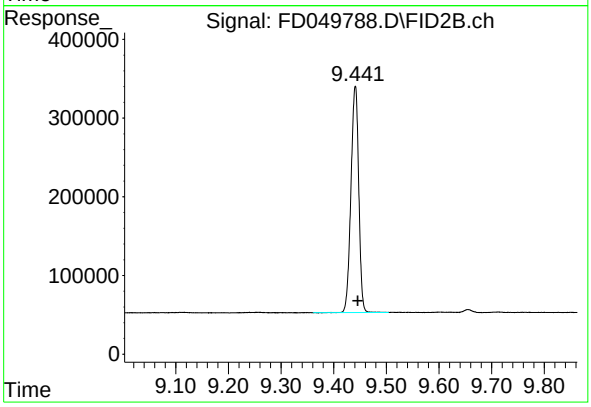
#6 2-Flurobiphenyl (SURR)

R.T.: 8.560 min
Delta R.T.: -0.005 min
Response: 1714721
Conc: 21.36 ug/ml



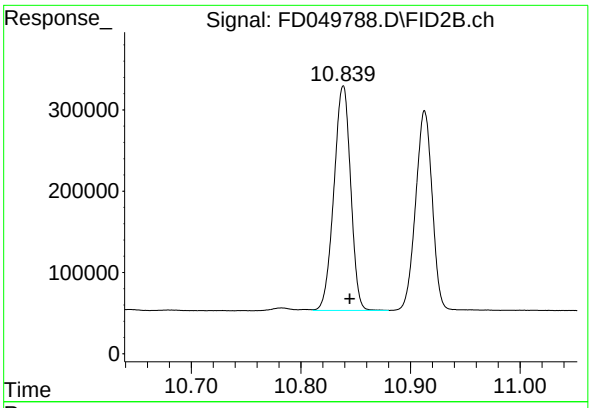
#7 Acenaphthene (C15.5)

R.T.: 8.659 min
Delta R.T.: -0.006 min
Response: 2939661
Conc: 21.21 ug/ml



#8 Flouorene (C16.55)

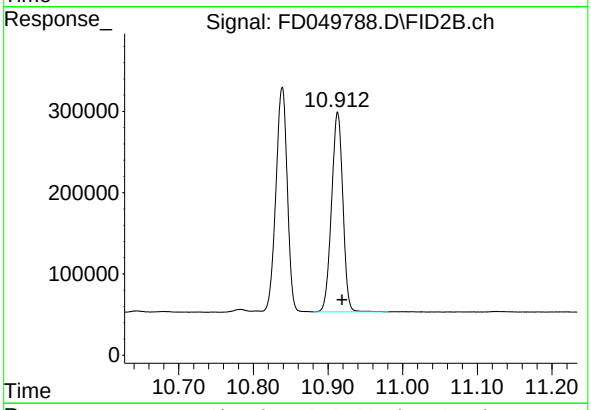
R.T.: 9.441 min
Delta R.T.: -0.005 min
Response: 2942831
Conc: 21.22 ug/ml



#9 Phenanthrene (C19.36)

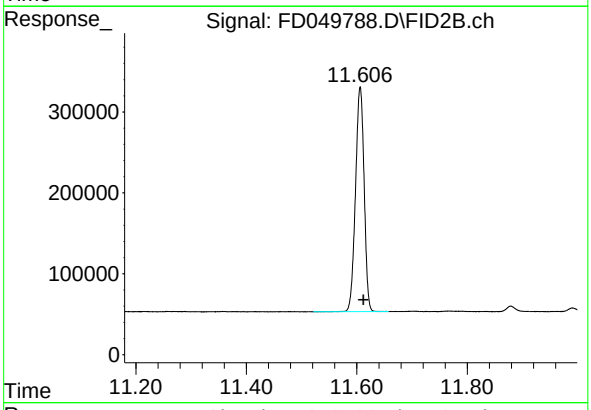
R.T.: 10.838 min
Delta R.T.: -0.006 min
Response: 2932132
Conc: 21.05 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



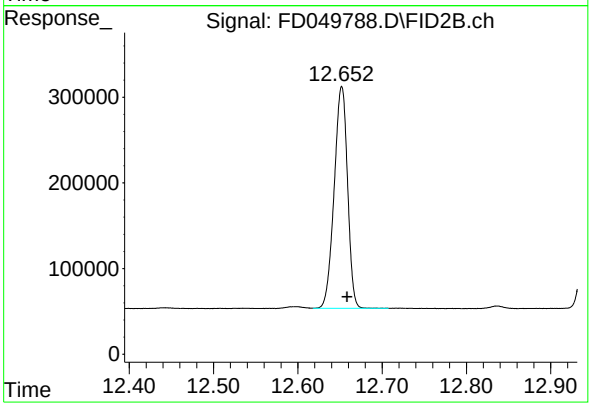
#10 Anthracene (C19.43)

R.T.: 10.913 min
Delta R.T.: -0.006 min
Response: 2585175
Conc: 19.58 ug/ml



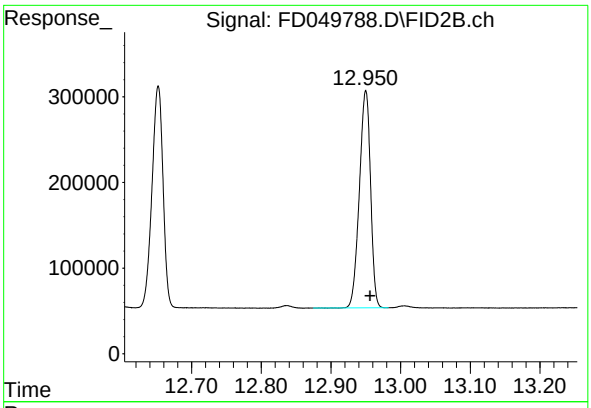
#11 ortho-Terphenyl (SURR)

R.T.: 11.606 min
Delta R.T.: -0.006 min
Response: 3007878
Conc: 21.26 ug/ml



#12 Fluoranthene (C21.85)

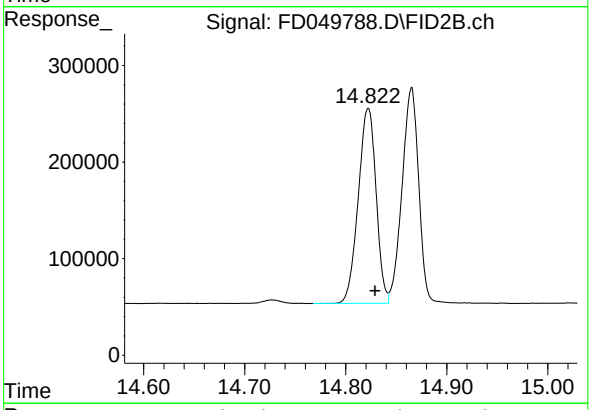
R.T.: 12.652 min
Delta R.T.: -0.007 min
Response: 2854909
Conc: 21.20 ug/ml



#13 Pyrene (C20.8)

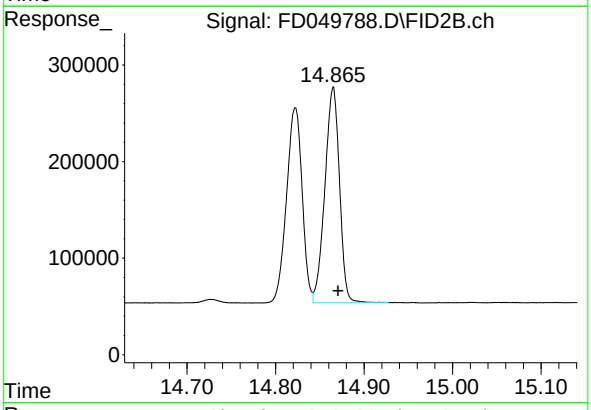
R.T.: 12.950 min
Delta R.T.: -0.006 min
Response: 2821886
Conc: 21.21 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



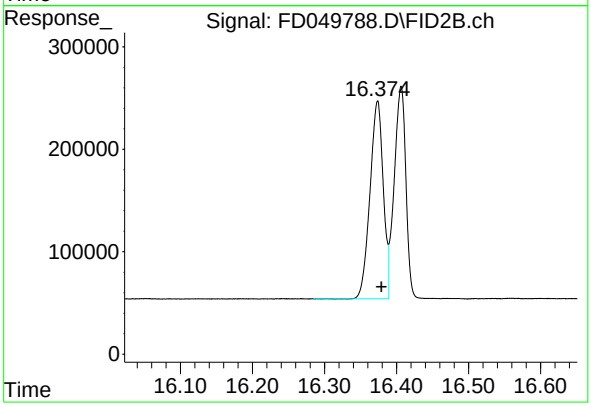
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.822 min
Delta R.T.: -0.007 min
Response: 2479767
Conc: 20.74 ug/ml



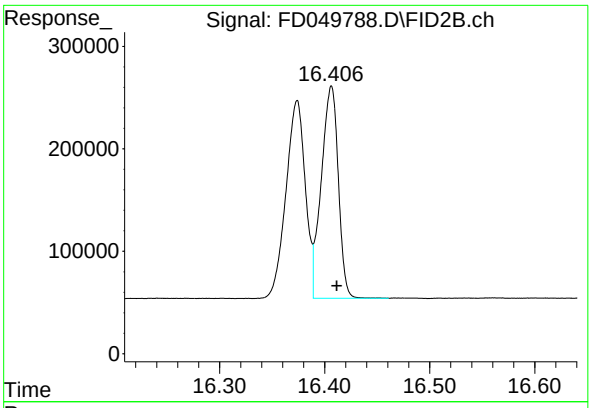
#15 Chrysene (C27.41)

R.T.: 14.865 min
Delta R.T.: -0.006 min
Response: 2557659
Conc: 21.02 ug/ml



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

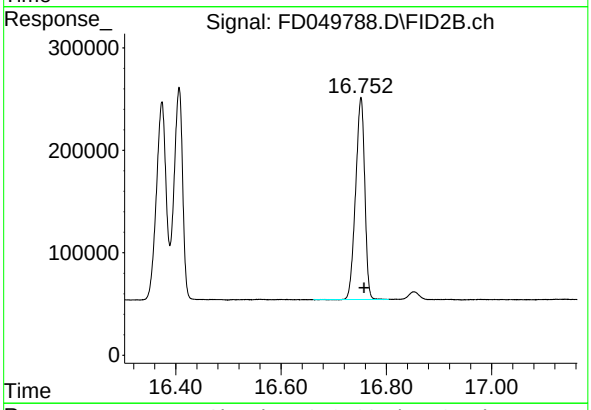
R.T.: 16.373 min
Delta R.T.: -0.005 min
Response: 2468734
Conc: 20.60 ug/ml



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

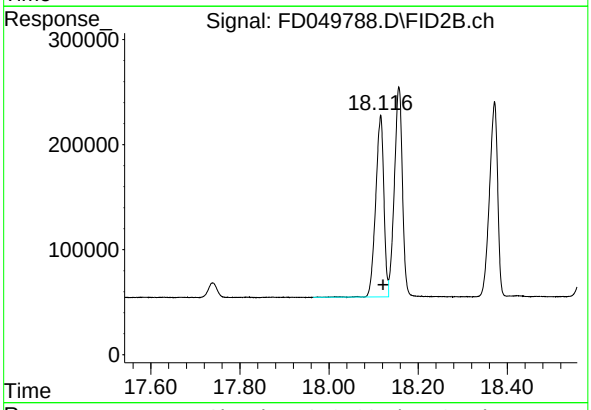
R.T.: 16.406 min
Delta R.T.: -0.005 min
Response: 2334251
Conc: 20.72 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD



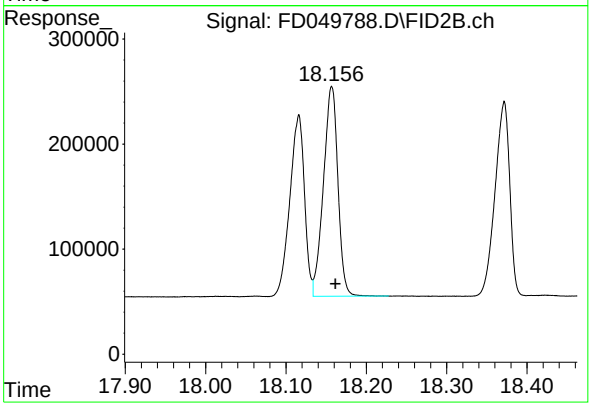
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.751 min
Delta R.T.: -0.006 min
Response: 2374794
Conc: 20.24 ug/ml



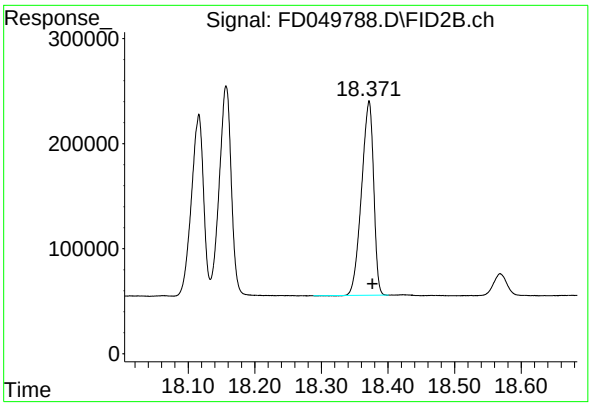
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.115 min
Delta R.T.: -0.006 min
Response: 2198563
Conc: 20.21 ug/ml



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

R.T.: 18.157 min
Delta R.T.: -0.005 min
Response: 2500361
Conc: 21.94 ug/ml



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

R.T.: 18.371 min
Delta R.T.: -0.005 min
Response: 2335915
Conc: 20.08 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049788.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 17:54
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.487	4.421	4.561	BB	269485	2298452	76.41%	4.245%
2	6.030	5.968	6.094	BB	296413	2664536	88.59%	4.921%
3	7.084	7.028	7.154	BB	294586	2796996	92.99%	5.166%
4	7.695	7.634	7.754	BB	254123	2398303	79.73%	4.429%
5	8.363	8.291	8.434	BB	301525	2938048	97.68%	5.426%
6	8.560	8.501	8.628	BB	175728	1714721	57.01%	3.167%
7	8.659	8.628	8.711	BB	299950	2939661	97.73%	5.429%
8	9.441	9.361	9.504	BB	289082	2942831	97.84%	5.435%
9	10.838	10.811	10.880	VV	276052	2932132	97.48%	5.415%
10	10.913	10.880	10.981	VB	245452	2585175	85.95%	4.774%
11	11.606	11.521	11.658	BB	277706	3007878	100.00%	5.555%
12	12.652	12.618	12.708	VB	258790	2854909	94.91%	5.273%
13	12.950	12.874	12.983	BV	255345	2821886	93.82%	5.212%
14	14.822	14.768	14.842	BV	202207	2479767	82.44%	4.580%
15	14.865	14.842	14.928	VB	222206	2557659	85.03%	4.724%
16	16.373	16.284	16.389	BV	194264	2468734	82.08%	4.559%
17	16.406	16.389	16.461	VB	209602	2334251	77.60%	4.311%
18	16.751	16.661	16.804	BB	196256	2374794	78.95%	4.386%
19	18.115	17.964	18.134	BV	169587	2198563	73.09%	4.060%
20	18.157	18.134	18.228	VB	200635	2500361	83.13%	4.618%
21	18.371	18.288	18.401	BV	184265	2335915	77.66%	4.314%
			Sum of corrected areas:			54145573		

Aromatic EPH 090425.M Thu Oct 02 10:25:57 2025

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

Continuing Calibration Report for SequenceID : FF092525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF016462.D**						
Aromatic C10-C12	4862477.000	40.000	4.521	6.398	121561.925	143322.298	15.183
Aromatic C12-C16	7309251.000	60.000	6.399	9.102	121820.850	145185.730	16.093
Aromatic C16-C21	9311721.000	80.000	9.103	13.422	116396.513	144173.003	19.266
Aromatic C21-C36	19005003.000	180.000	13.423	18.876	105583.350	130834.072	19.300
Aromatic EPH	40488452.000	360.000	4.521	18.876	112467.922	137577.803	18.251

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:	26 Sep 2025 08:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016462.D	Misc:	
Instrument:	FID_F	ALS Vial:	76
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.398	4862477.000	40.000	ug/ml
Aromatic C12-C16	6.399	9.102	7309251.000	60.000	ug/ml
Aromatic C16-C21	9.103	13.422	9311721.000	80.000	ug/ml
Aromatic C21-C36	13.423	18.876	19005003.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	40488452.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016462.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 26 23:12:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 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...	8.028	2096739	16.738 ug/ml
Spiked Amount	50.000		Recovery =	33.48%
6) S	2-Flurobiphenyl (SURR)	8.906	1407380	16.687 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	33.37%
11) S	ortho-Terphenyl (SURR)	11.973	2476630	16.246 ug/ml
Spiked Amount	50.000		Recovery =	32.49%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.621	2402699	17.045 ug/ml
2) T	Naphthalene (C11.7)	6.298	2459778	16.885 ug/ml
3) T	2-Methylnaphthalene (...	7.399	2484705	16.877 ug/ml
5) T	Acenaphthylene (C15.06)	8.706	2404945	16.595 ug/ml
7) T	Acenaphthene (C15.5)	9.006	2419601	16.871 ug/ml
8) T	Flouorene (C16.55)	9.795	2398495	16.603 ug/ml
9) T	Phenanthrene (C19.36)	11.204	2363581	16.205 ug/ml
10) T	Anthracene (C19.43)	11.279	2309289	16.141 ug/ml
12) T	Fluoranthene (C21.85)	13.029	2313970	15.844 ug/ml
13) T	Pyrene (C20.8)	13.328	2240356	15.634 ug/ml
14) T	Benzo[a]anthracene (C...	15.213	2098704	15.418 ug/ml
15) T	Chrysene (C27.41)	15.255	2209561	15.490 ug/ml
16) T	benzo[b]fluoranthene ...	16.775	2095600	15.948 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.807	2036001	16.175 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.156	2082679	16.311 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.532	1913768	16.782 ug/ml
20) T	Dibenz[a,h]anthracene...	18.571	2185929	16.744 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.788	2068791	16.800 ug/ml

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

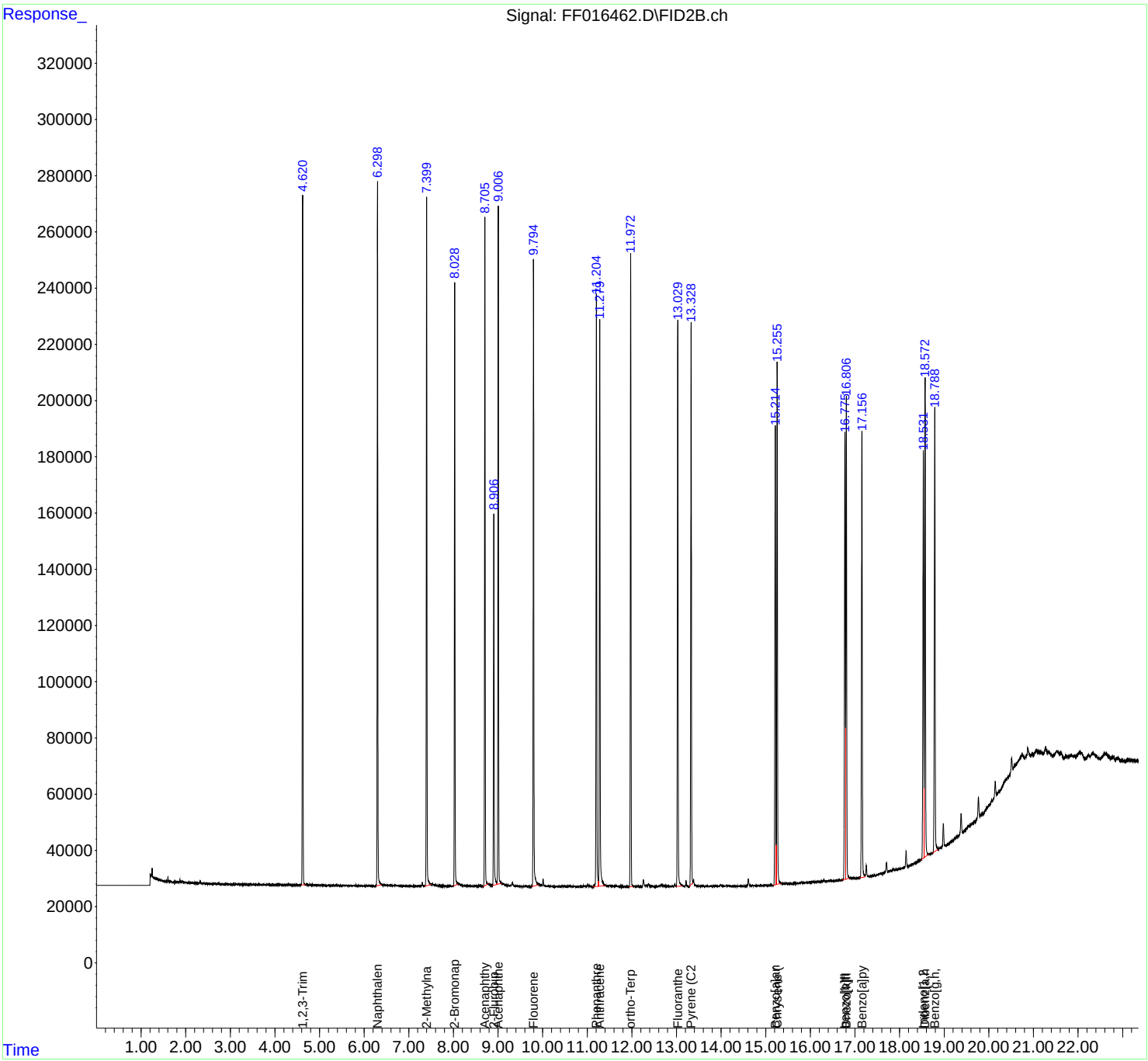
Quantitation Report (QT Reviewed)

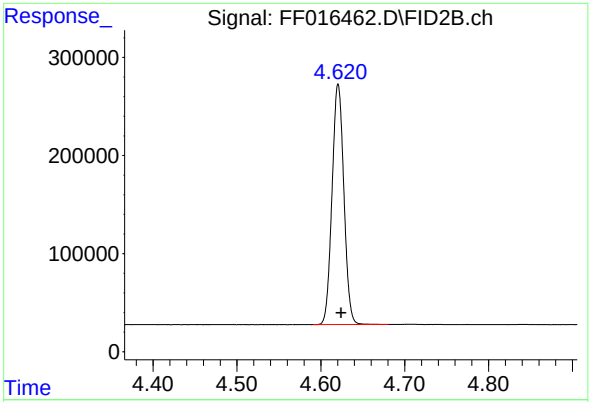
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016462.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 26 23:12:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

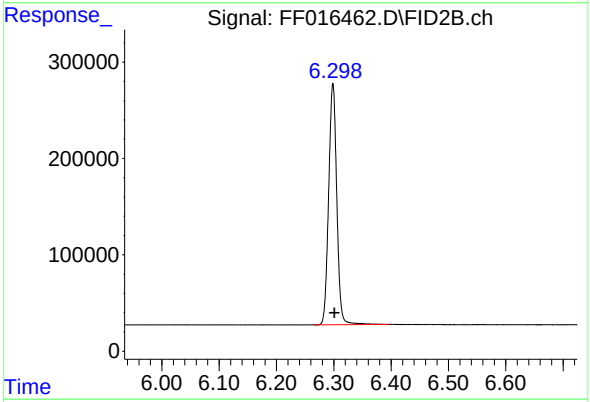




#1 1,2,3-Trimethylbenzene (C10.1)

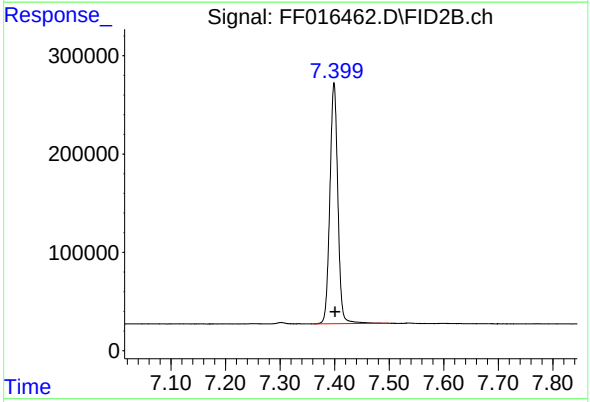
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 2402699
Conc: 17.04 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



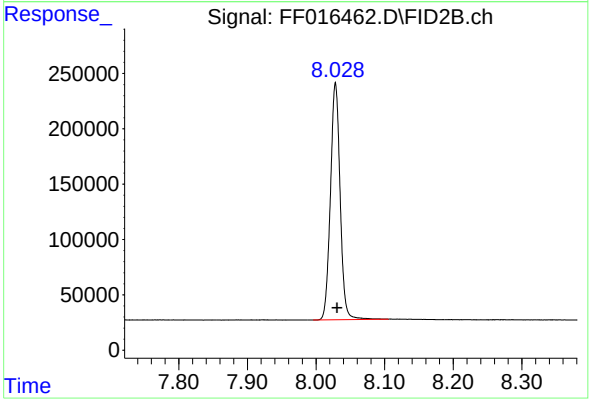
#2 Naphthalene (C11.7)

R.T.: 6.298 min
Delta R.T.: -0.003 min
Response: 2459778
Conc: 16.88 ug/ml



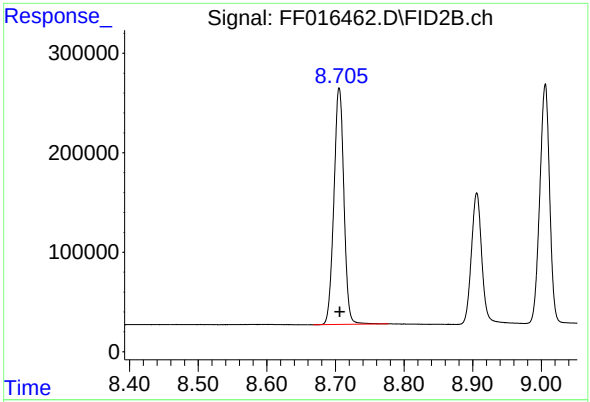
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.399 min
Delta R.T.: -0.002 min
Response: 2484705
Conc: 16.88 ug/ml



#4 2-Bromonaphthalene (SURR)

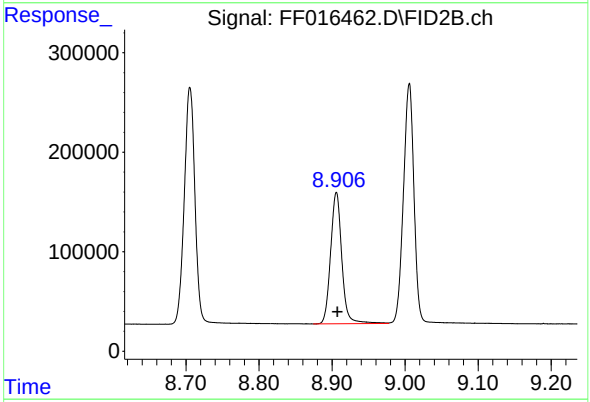
R.T.: 8.028 min
Delta R.T.: -0.002 min
Response: 2096739
Conc: 16.74 ug/ml



#5 Acenaphthylene (C15.06)

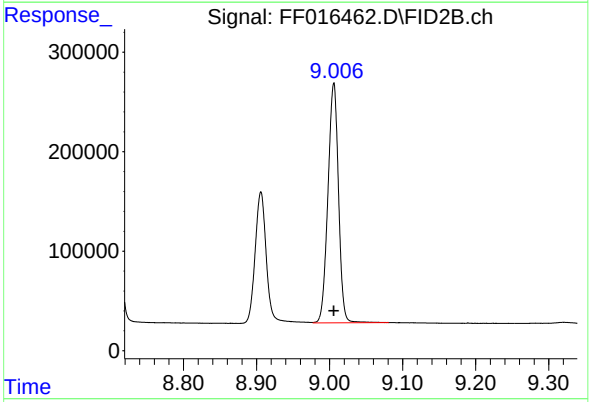
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 2404945
Conc: 16.60 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



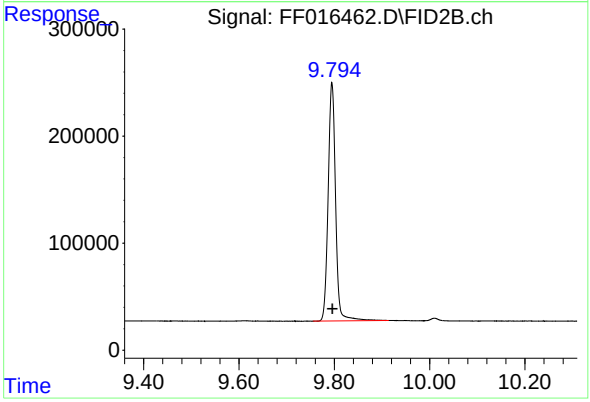
#6 2-Flurobiphenyl (SURR)

R.T.: 8.906 min
Delta R.T.: -0.002 min
Response: 1407380
Conc: 16.69 ug/ml



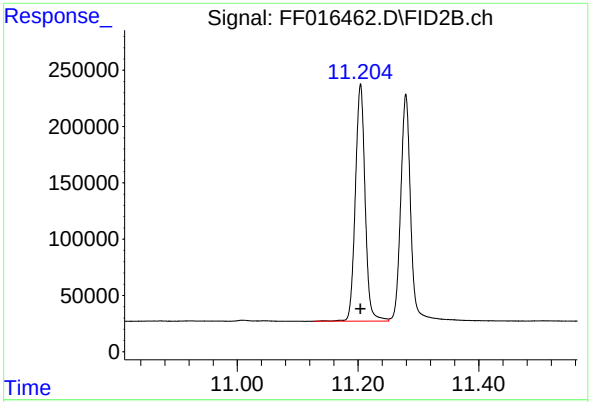
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 2419601
Conc: 16.87 ug/ml



#8 Flouorene (C16.55)

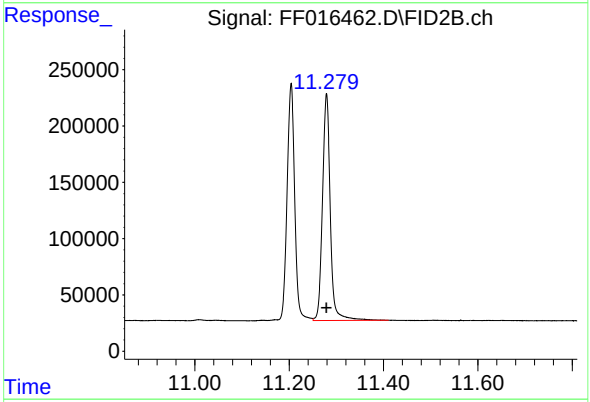
R.T.: 9.795 min
Delta R.T.: 0.000 min
Response: 2398495
Conc: 16.60 ug/ml



#9 Phenanthrene (C19.36)

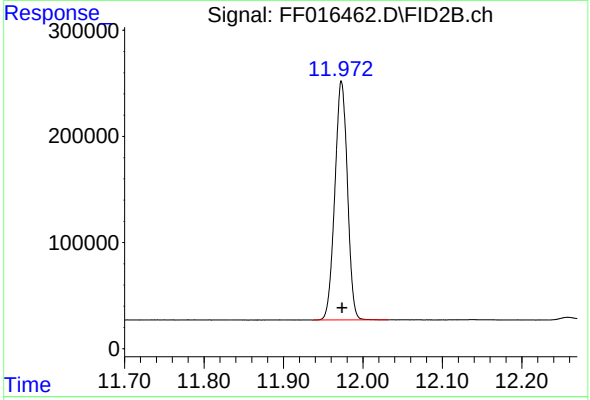
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 2363581
Conc: 16.20 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



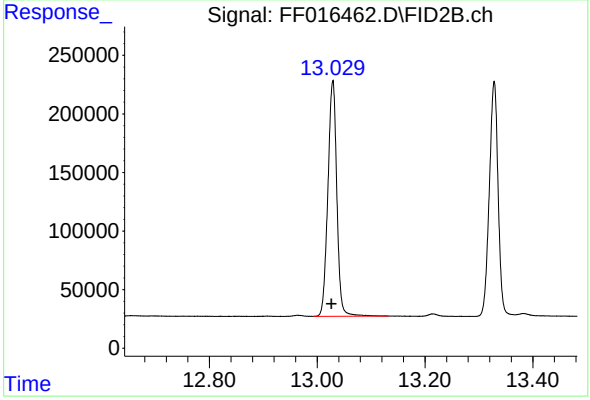
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 2309289
Conc: 16.14 ug/ml



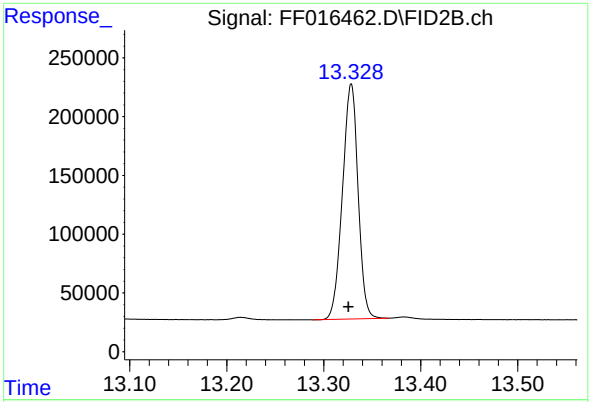
#11 ortho-Terphenyl (SURR)

R.T.: 11.973 min
Delta R.T.: 0.000 min
Response: 2476630
Conc: 16.25 ug/ml



#12 Fluoranthene (C21.85)

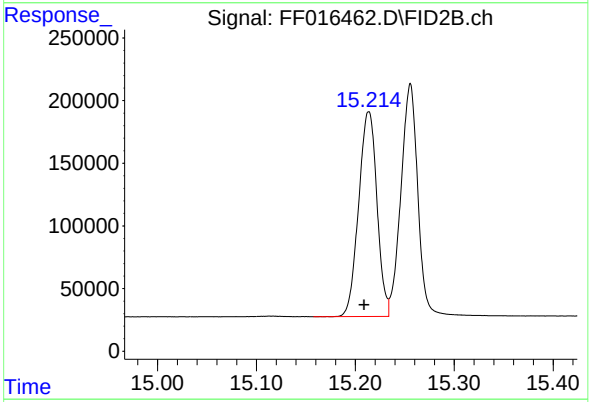
R.T.: 13.029 min
Delta R.T.: 0.002 min
Response: 2313970
Conc: 15.84 ug/ml



#13 Pyrene (C20.8)

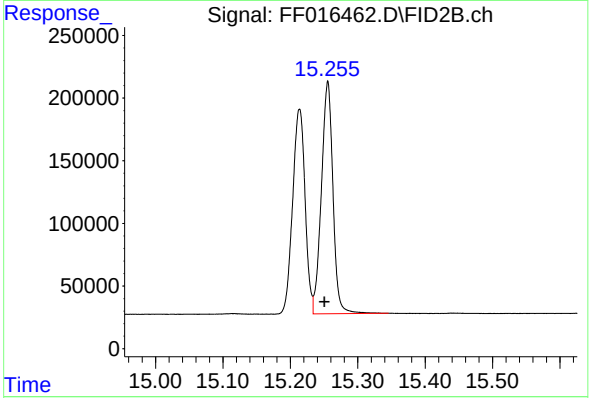
R.T.: 13.328 min
Delta R.T.: 0.003 min
Response: 2240356
Conc: 15.63 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



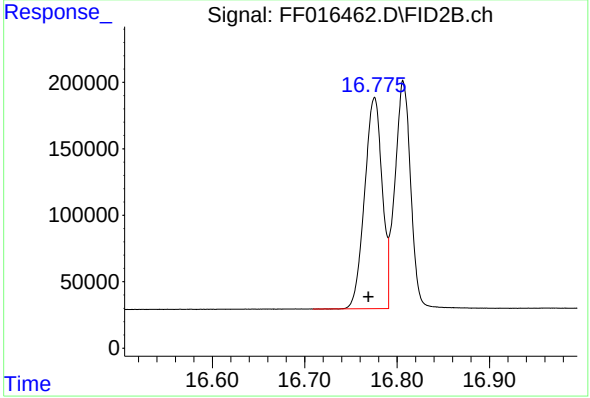
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.213 min
Delta R.T.: 0.004 min
Response: 2098704
Conc: 15.42 ug/ml



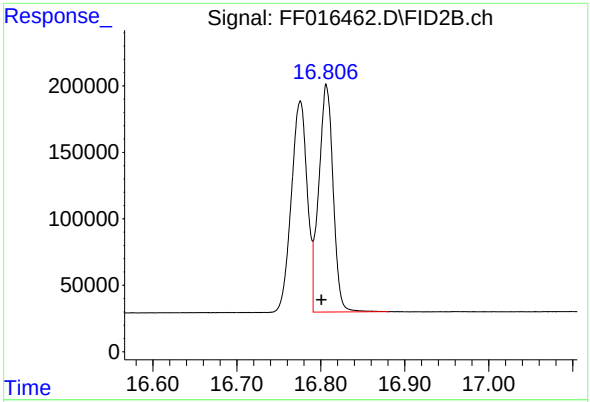
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.005 min
Response: 2209561
Conc: 15.49 ug/ml



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

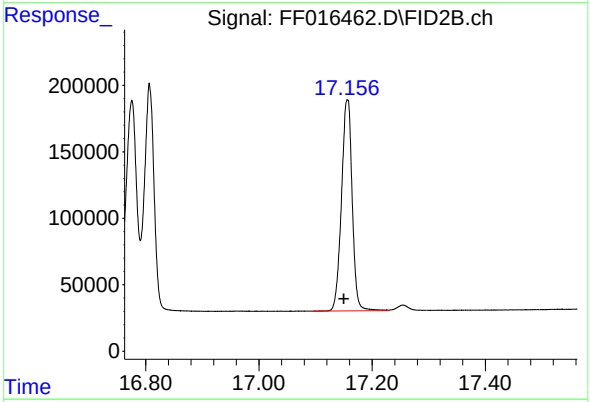
R.T.: 16.775 min
Delta R.T.: 0.006 min
Response: 2095600
Conc: 15.95 ug/ml



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

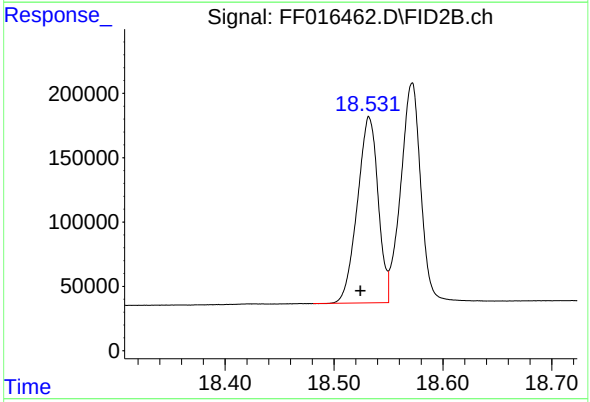
R.T.: 16.807 min
Delta R.T.: 0.006 min
Response: 2036001
Conc: 16.18 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



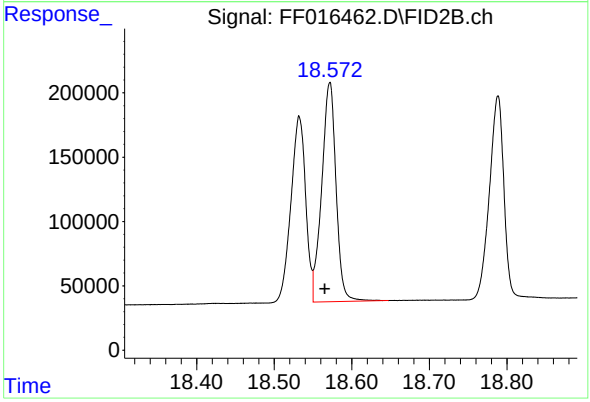
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.156 min
Delta R.T.: 0.006 min
Response: 2082679
Conc: 16.31 ug/ml



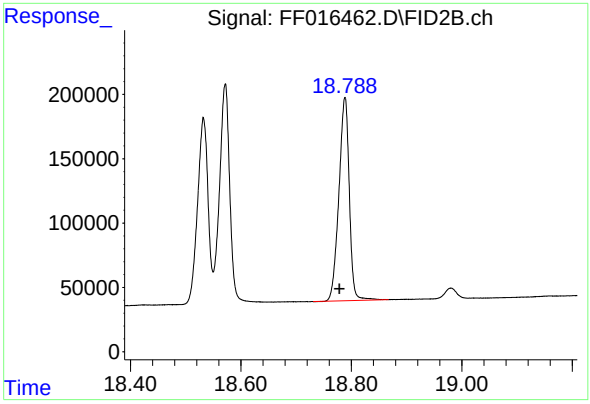
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.532 min
Delta R.T.: 0.008 min
Response: 1913768
Conc: 16.78 ug/ml



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

R.T.: 18.571 min
Delta R.T.: 0.006 min
Response: 2185929
Conc: 16.74 ug/ml



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

R.T.:	18.788 min
Delta R.T.:	0.010 min
Response:	2068791
Conc:	16.80 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016462.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 08:42
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.621	4.591	4.681	BB	245005	2402699	96.70%	5.171%
2	6.298	6.264	6.396	BB	251052	2459778	99.00%	5.293%
3	7.399	7.361	7.499	BB	244989	2484705	100.00%	5.347%
4	8.028	7.996	8.106	BB	213685	2096739	84.39%	4.512%
5	8.706	8.667	8.777	BB	237813	2404945	96.79%	5.175%
6	8.906	8.874	8.977	BV	132172	1407380	56.64%	3.029%
7	9.006	8.977	9.081	VB	241435	2419601	97.38%	5.207%
8	9.795	9.756	9.914	BB	222040	2398495	96.53%	5.161%
9	11.204	11.126	11.251	BV	210770	2363581	95.13%	5.086%
10	11.279	11.251	11.411	VB	201760	2309289	92.94%	4.970%
11	11.973	11.937	12.032	BB	225196	2476630	99.68%	5.330%
12	13.029	12.992	13.132	BB	201372	2313970	93.13%	4.980%
13	13.328	13.289	13.367	BV	199790	2240356	90.17%	4.821%
14	15.213	15.157	15.234	BV	163698	2098704	84.46%	4.516%
15	15.255	15.234	15.346	VB	186272	2209561	88.93%	4.755%
16	16.775	16.709	16.791	BV	159198	2095600	84.34%	4.510%
17	16.807	16.791	16.881	VB	169734	2036001	81.94%	4.381%
18	17.156	17.096	17.229	BV	158897	2082679	83.82%	4.482%
19	18.532	18.481	18.550	BV	144480	1913768	77.02%	4.118%
20	18.571	18.550	18.647	VB	170188	2185929	87.98%	4.704%
21	18.788	18.731	18.867	BB	158153	2068791	83.26%	4.452%
			Sum of corrected areas:			46469200		

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

Continuing Calibration Report for SequenceID : FF092525AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF016466.D**						
Aromatic C10-C12	6405916.000	40.000	4.521	6.398	160147.900	143322.298	-11.740
Aromatic C12-C16	9691074.000	60.000	6.399	9.102	161517.900	145185.730	-11.249
Aromatic C16-C21	12369220.000	80.000	9.103	13.422	154615.250	144173.003	-7.243
Aromatic C21-C36	25252479.000	180.000	13.423	18.876	140291.550	130834.072	-7.229
Aromatic EPH	53718689.000	360.000	4.521	18.876	149218.581	137577.803	-8.461

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:	26 Sep 2025 10:40
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016466.D	Misc:	
Instrument:	FID_F	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.398	6405916.000	40.000	ug/ml
Aromatic C12-C16	6.399	9.102	9691074.000	60.000	ug/ml
Aromatic C16-C21	9.103	13.422	12369220.000	80.000	ug/ml
Aromatic C21-C36	13.423	18.876	25252479.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	53718689.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016466.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 10:40
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 26 23:14:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 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...	8.030	2781309	22.203 ug/ml
	Spiked Amount 50.000		Recovery =	44.41%
6)	S 2-Flurobiphenyl (SURR)	8.907	1877673	22.263 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	44.53%
11)	S ortho-Terphenyl (SURR)	11.974	3254641	21.349 ug/ml
	Spiked Amount 50.000		Recovery =	42.70%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.624	3159014	22.410 ug/ml
2)	T Naphthalene (C11.7)	6.301	3246902	22.288 ug/ml
3)	T 2-Methylnaphthalene (...	7.401	3288042	22.334 ug/ml
5)	T Acenaphthylene (C15.06)	8.707	3193160	22.034 ug/ml
7)	T Acenaphthene (C15.5)	9.006	3209872	22.381 ug/ml
8)	T Flouorene (C16.55)	9.797	3187658	22.066 ug/ml
9)	T Phenanthrene (C19.36)	11.205	3138324	21.516 ug/ml
10)	T Anthracene (C19.43)	11.280	3060631	21.393 ug/ml
12)	T Fluoranthene (C21.85)	13.029	3070729	21.025 ug/ml
13)	T Pyrene (C20.8)	13.329	2982607	20.813 ug/ml
14)	T Benzo[a]anthracene (C...	15.213	2819394	20.712 ug/ml
15)	T Chrysene (C27.41)	15.256	2928928	20.533 ug/ml
16)	T benzo[b]fluoranthene ...	16.775	2799294	21.304 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.808	2683583	21.320 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.157	2753780	21.566 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.534	2550402	22.364 ug/ml
20)	T Dibenz[a,h]anthracene...	18.573	2909376	22.285 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.791	2736993	22.227 ug/ml

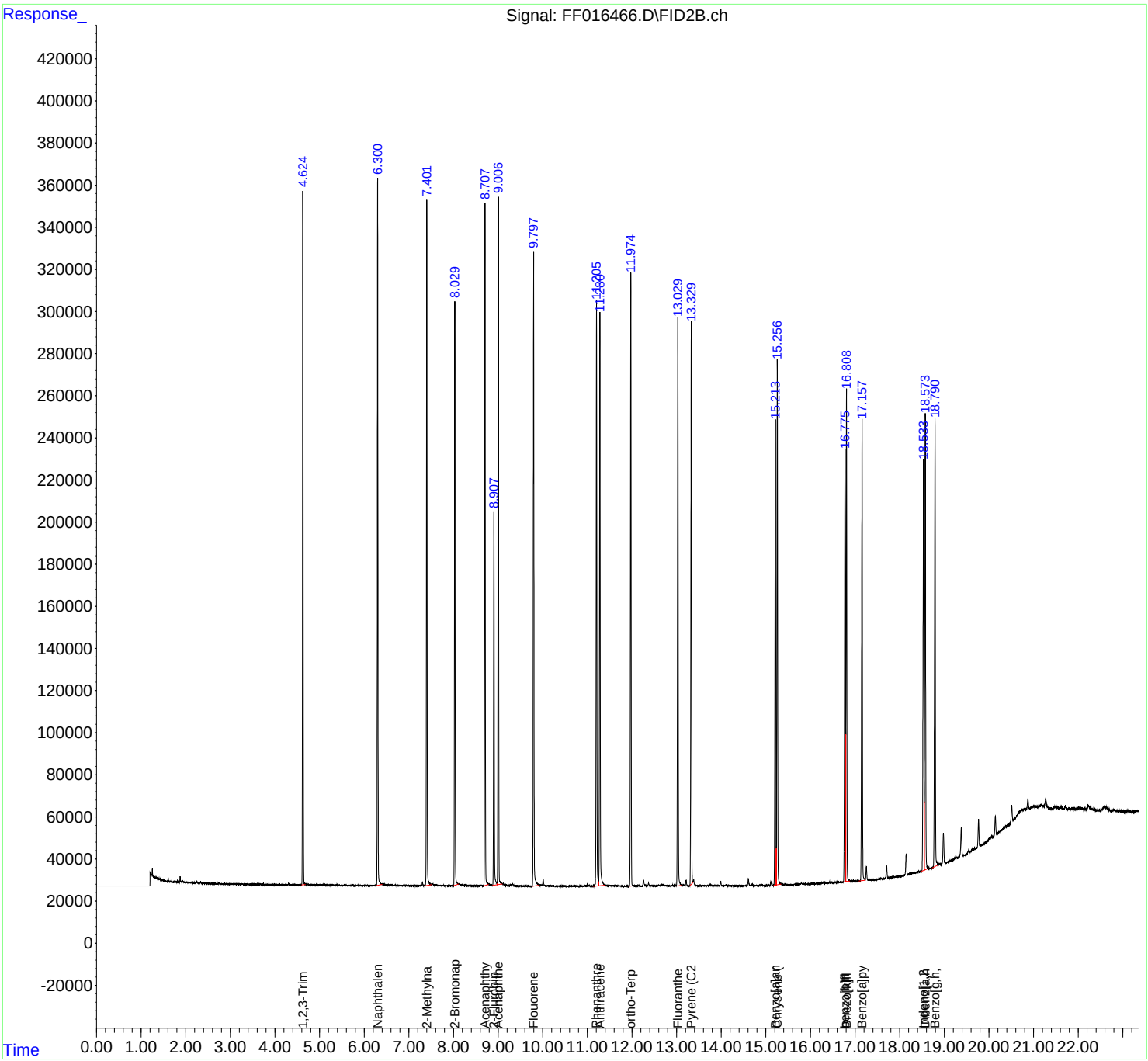
(f)=RT Delta > 1/2 Window (m)=manual int.

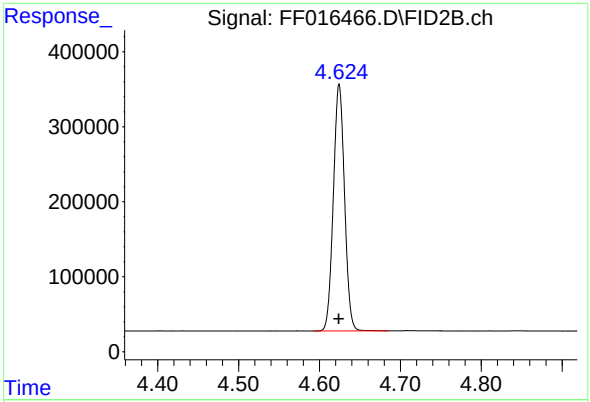
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016466.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 10:40
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 26 23:14:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:24:48 2025
Response via : Initial Calibration
Integrator: ChemStation

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

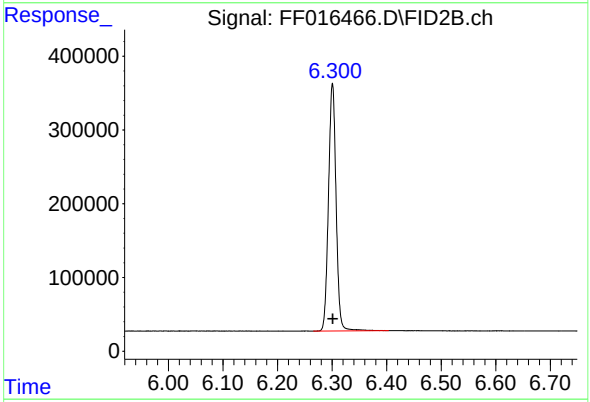




#1 1,2,3-Trimethylbenzene (C10.1)

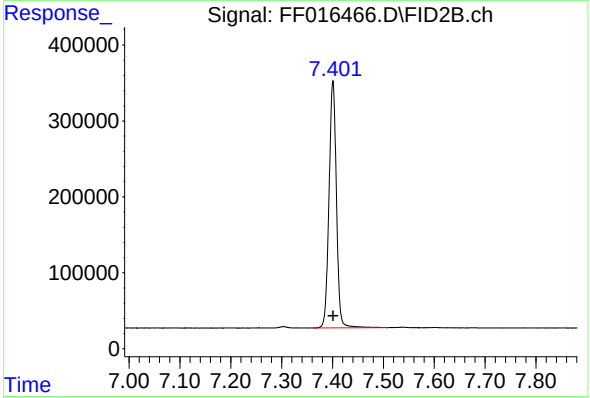
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 3159014
Conc: 22.41 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



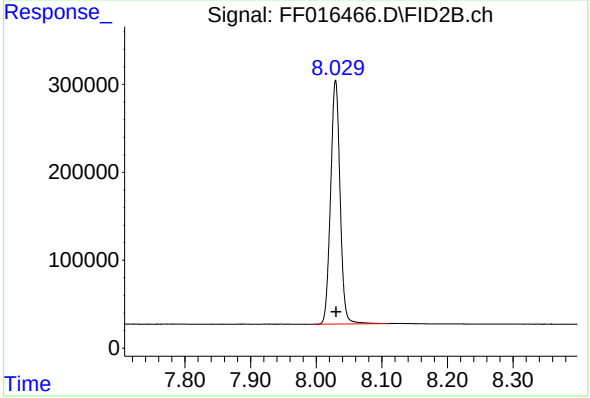
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 3246902
Conc: 22.29 ug/ml



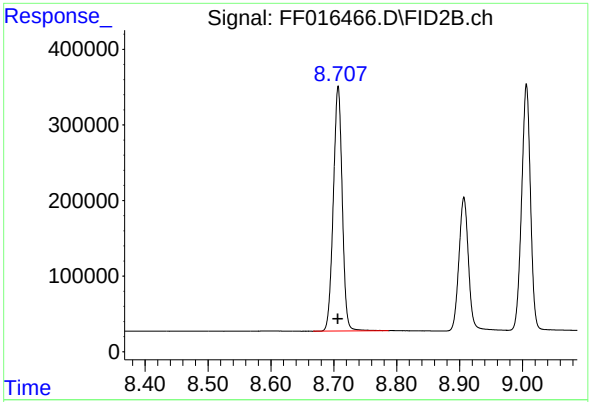
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 3288042
Conc: 22.33 ug/ml



#4 2-Bromonaphthalene (SURR)

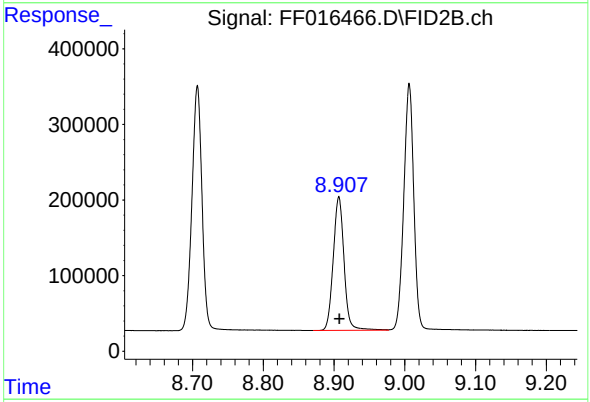
R.T.: 8.030 min
Delta R.T.: 0.000 min
Response: 2781309
Conc: 22.20 ug/ml



#5 Acenaphthylene (C15.06)

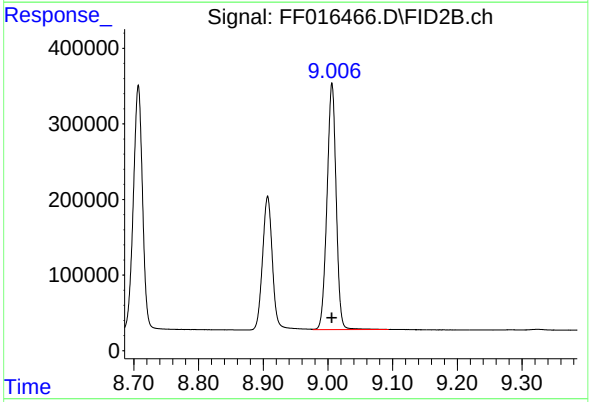
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 3193160
Conc: 22.03 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



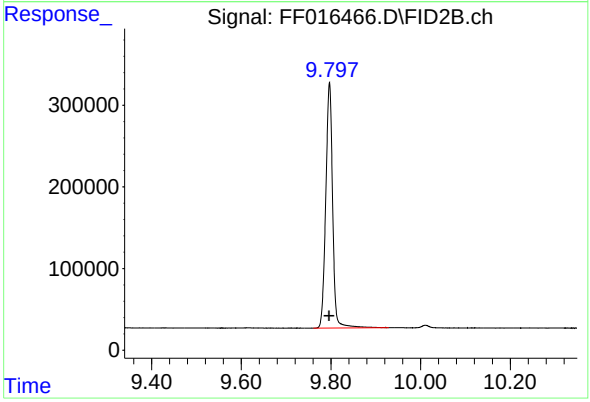
#6 2-Flurobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 1877673
Conc: 22.26 ug/ml



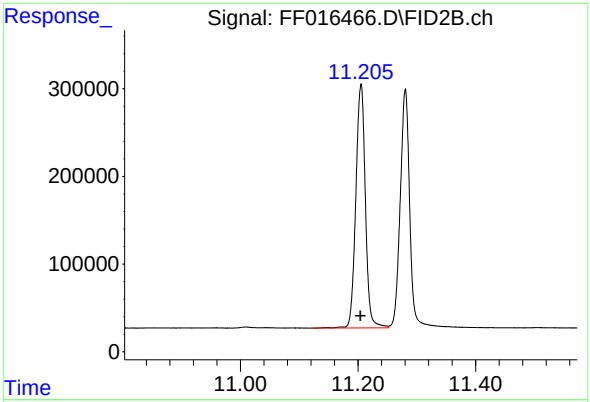
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 3209872
Conc: 22.38 ug/ml



#8 Flouorene (C16.55)

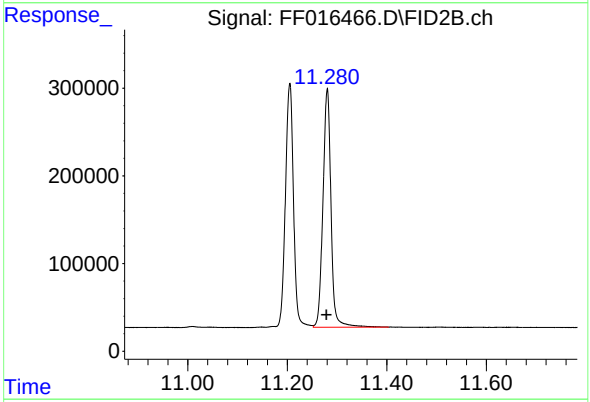
R.T.: 9.797 min
Delta R.T.: 0.000 min
Response: 3187658
Conc: 22.07 ug/ml



#9 Phenanthrene (C19.36)

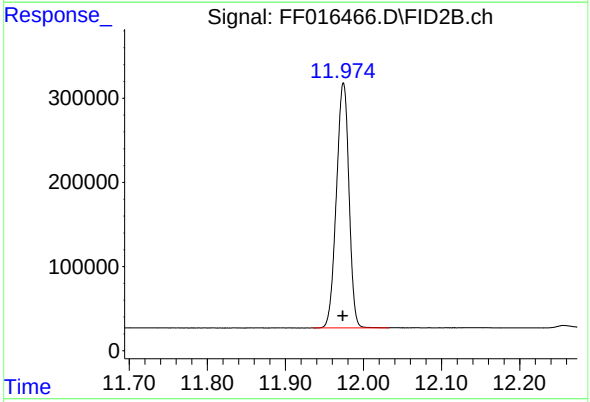
R.T.: 11.205 min
Delta R.T.: 0.001 min
Response: 3138324
Conc: 21.52 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



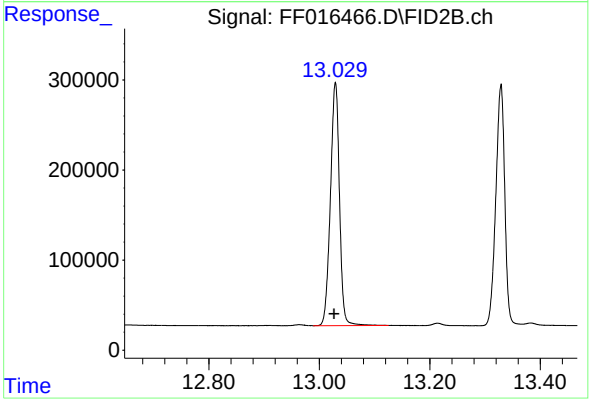
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.002 min
Response: 3060631
Conc: 21.39 ug/ml



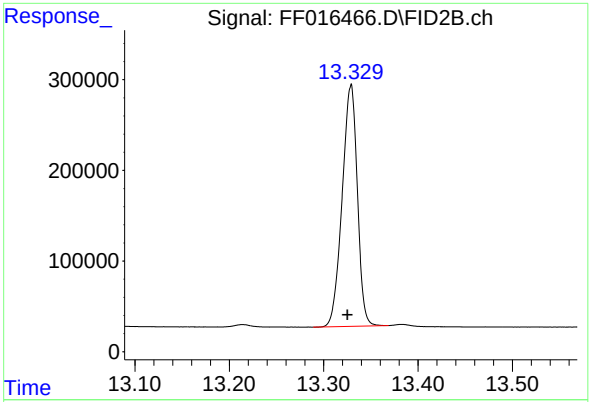
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 3254641
Conc: 21.35 ug/ml



#12 Fluoranthene (C21.85)

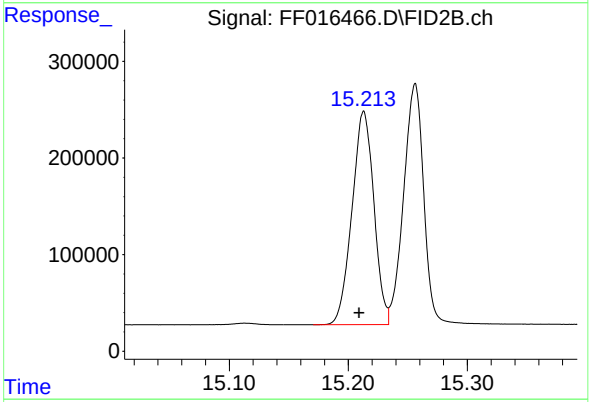
R.T.: 13.029 min
Delta R.T.: 0.003 min
Response: 3070729
Conc: 21.03 ug/ml



#13 Pyrene (C20.8)

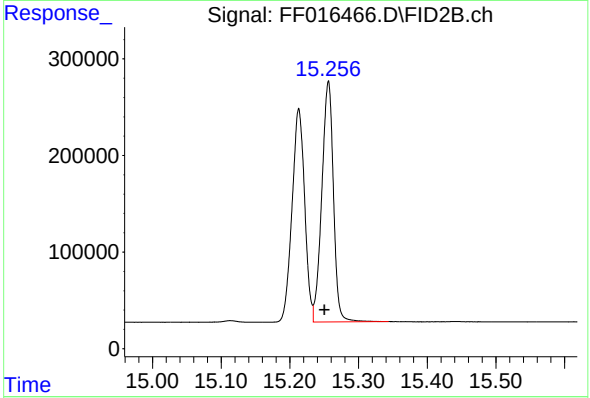
R.T.: 13.329 min
Delta R.T.: 0.003 min
Response: 2982607
Conc: 20.81 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



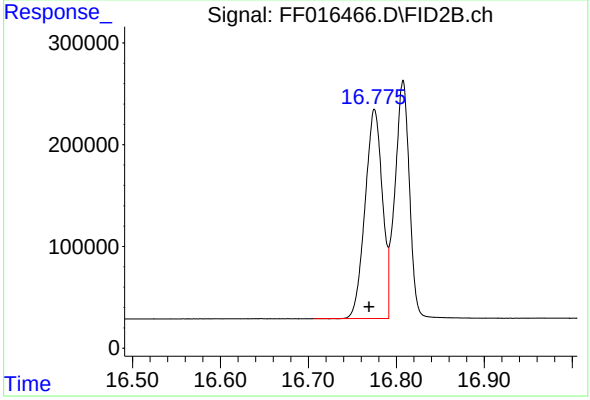
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.213 min
Delta R.T.: 0.004 min
Response: 2819394
Conc: 20.71 ug/ml



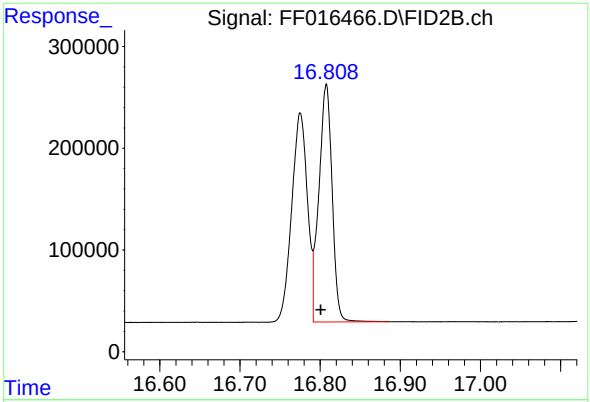
#15 Chrysene (C27.41)

R.T.: 15.256 min
Delta R.T.: 0.005 min
Response: 2928928
Conc: 20.53 ug/ml



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

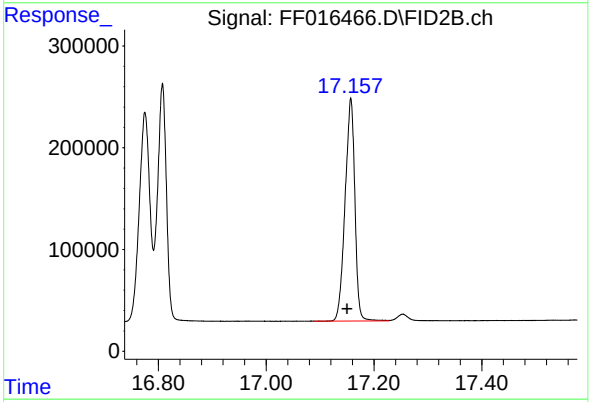
R.T.: 16.775 min
Delta R.T.: 0.006 min
Response: 2799294
Conc: 21.30 ug/ml



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

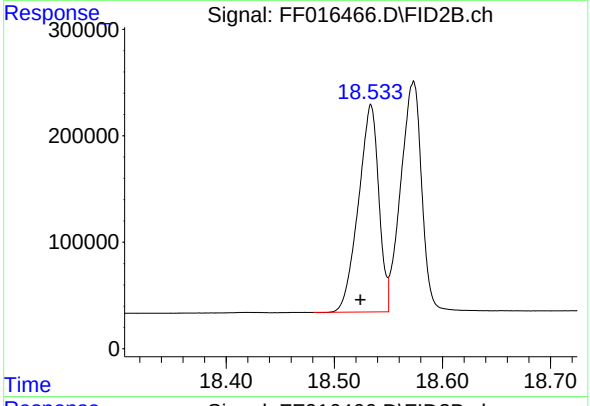
R.T.: 16.808 min
Delta R.T.: 0.007 min
Response: 2683583
Conc: 21.32 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



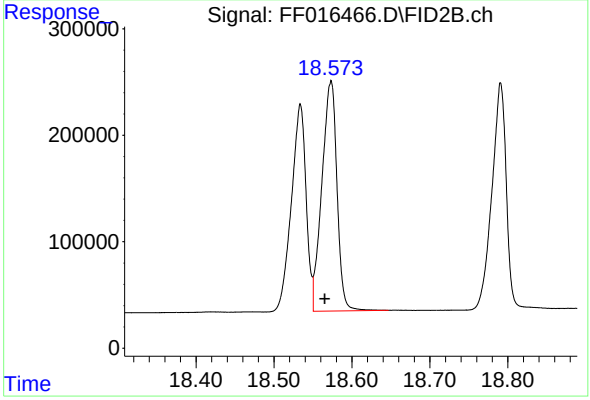
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min
Delta R.T.: 0.007 min
Response: 2753780
Conc: 21.57 ug/ml



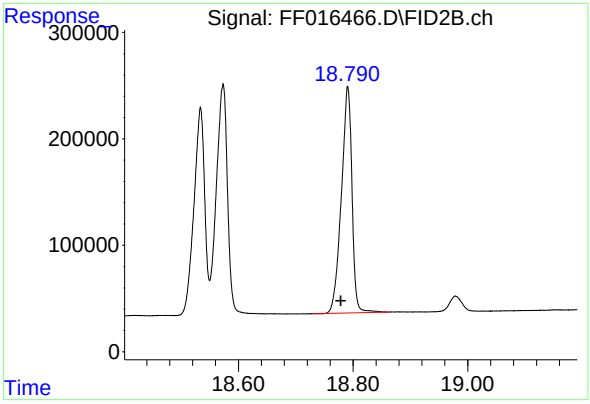
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.534 min
Delta R.T.: 0.009 min
Response: 2550402
Conc: 22.36 ug/ml



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

R.T.: 18.573 min
Delta R.T.: 0.008 min
Response: 2909376
Conc: 22.29 ug/ml



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

R.T.:	18.791 min
Delta R.T.:	0.012 min
Response:	2736993
Conc:	22.23 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092525AR\
Data File : FF016466.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 10:40
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 092425.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	4.624	4.592	4.685	BB	329187	3159014	96.08%	5.126%
2	6.301	6.265	6.404	BB	335973	3246902	98.75%	5.268%
3	7.401	7.362	7.510	BB	324272	3288042	100.00%	5.335%
4	8.030	7.995	8.110	BB	277317	2781309	84.59%	4.513%
5	8.707	8.667	8.787	BB	324189	3193160	97.11%	5.181%
6	8.907	8.870	8.977	BV	177063	1877673	57.11%	3.047%
7	9.006	8.977	9.094	VB	325973	3209872	97.62%	5.208%
8	9.797	9.760	9.929	BB	301861	3187658	96.95%	5.172%
9	11.205	11.124	11.252	BV	279426	3138324	95.45%	5.092%
10	11.280	11.252	11.404	VB	272094	3060631	93.08%	4.966%
11	11.974	11.935	12.032	BB	291572	3254641	98.98%	5.281%
12	13.029	12.989	13.125	PB	270031	3070729	93.39%	4.982%
13	13.329	13.289	13.369	BV	266115	2982607	90.71%	4.839%
14	15.213	15.170	15.234	BV	220923	2819394	85.75%	4.575%
15	15.256	15.234	15.344	VB	248804	2928928	89.08%	4.752%
16	16.775	16.705	16.791	BV	205484	2799294	85.14%	4.542%
17	16.808	16.791	16.885	VB	232987	2683583	81.62%	4.354%
18	17.157	17.087	17.227	BV	219559	2753780	83.75%	4.468%
19	18.534	18.480	18.550	BV	195320	2550402	77.57%	4.138%
20	18.573	18.550	18.647	VB	214915	2909376	88.48%	4.721%
21	18.791	18.730	18.862	BB	213502	2736993	83.24%	4.441%
			Sum of corrected areas:			61632312		

Aromatic EPH 092425.M Fri Sep 26 23:32:34 2025

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

Continuing Calibration Report for SequenceID : FG092525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG016647.D**						
Aliphatic C9-C12	6666765.000	60.000	3.279	6.920	111112.750	115503.733	3.802
Aliphatic C12-C16	4693819.000	40.000	6.921	10.379	117345.475	120612.787	2.709
Aliphatic C16-C21	7426900.000	60.000	10.380	13.768	123781.667	129289.357	4.260
Aliphatic C21-C28	9882490.000	80.000	13.769	17.453	123531.125	128839.727	4.120
Aliphatic C28-C40	12025117.000	120.000	17.454	22.488	100209.308	101419.097	1.193
Aliphatic EPH	40695091.000	360.000	3.279	22.488	113041.919	116637.685	3.083

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

Lab Sample ID:	20 PPM ALIPHATIC HCS	Acq On:	25 Sep 2025 15:19
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016647.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.279	6.920	6666765.000	60.000	ug/ml
Aliphatic C12-C16	6.921	10.379	4693819.000	40.000	ug/ml
Aliphatic C16-C21	10.380	13.768	7426900.000	60.000	ug/ml
Aliphatic C21-C28	13.769	17.453	9882490.000	80.000	ug/ml
Aliphatic C28-C40	17.454	22.488	12025117.000	120.000	ug/ml
Aliphatic EPH	3.279	22.488	40695091.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016647.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:19
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HCSTD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD

Integration File: autoint1.e
Quant Time: Sep 25 16:46:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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)	12.055	2749482	19.276 ug/ml
Spiked Amount	50.000		Recovery =	38.55%
12)	S 1-chlorooctadecane (S...	13.500	2160022	19.137 ug/ml
Spiked Amount	50.000		Recovery =	38.27%
	Target Compounds			
1)	T n-Nonane (C9)	3.379	2171757	19.138 ug/ml
2)	T n-Decane (C10)	4.640	2228973	19.273 ug/ml
3)	T A~Naphthalene (C11.7)	6.358	2388206	19.370 ug/ml
4)	T n-Dodecane (C12)	6.820	2266035	19.306 ug/ml
5)	T A~2-methylnaphthalene...	7.461	2284097	19.746 ug/ml
6)	T n-Tetradecane (C14)	8.660	2289648	19.516 ug/ml
7)	T n-Hexadecane (C16)	10.279	2404171	19.404 ug/ml
8)	T n-Octadecane (C18)	11.732	2499205	19.198 ug/ml
10)	T n-Eicosane (C20)	13.052	2472696	19.127 ug/ml
11)	T n-Heneicosane (C21)	13.668	2454999	19.118 ug/ml
13)	T n-Docosane (C22)	14.259	2461302	19.088 ug/ml
14)	T n-Tetracosane (C24)	15.369	2493623	19.120 ug/ml
15)	T n-Hexacosane (C26)	16.398	2477877	19.195 ug/ml
16)	T n-Octacosane (C28)	17.353	2449688	19.303 ug/ml
17)	T n-Tricontane (C30)	18.246	2538157	19.837 ug/ml
18)	T n-Dotriacontane (C32)	19.085	2470437	20.171 ug/ml
19)	T n-Tetratriacontane (C34)	19.873	2202652	20.276 ug/ml
20)	T n-Hexatriacontane (C36)	20.617	1824027	20.073 ug/ml
21)	T n-Octatriacontane (C38)	21.398	1574253	19.330 ug/ml
22)	T n-Tetracontane (C40)	22.388	1415591	18.351 ug/ml

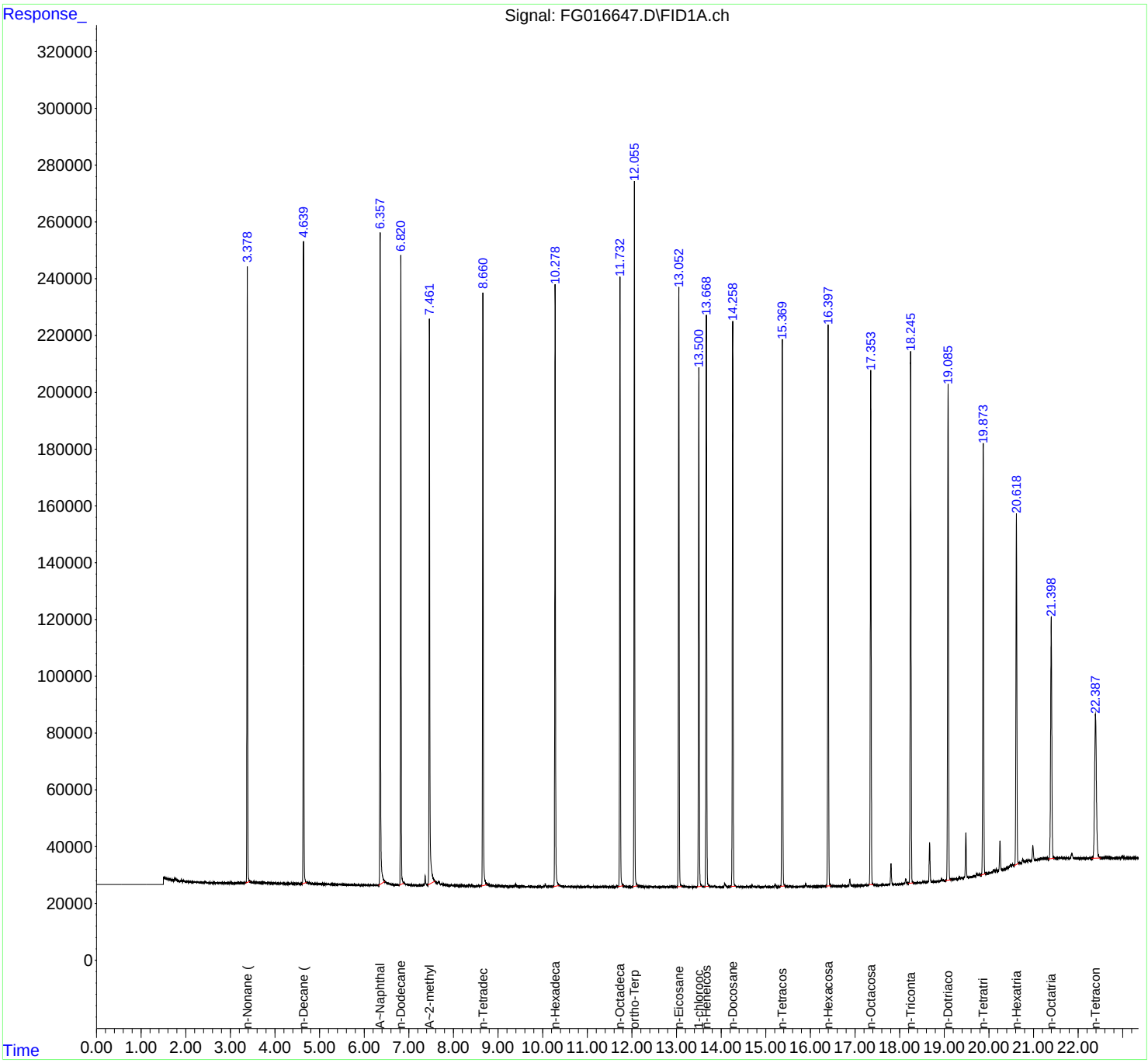
(f)=RT Delta > 1/2 Window (m)=manual int.

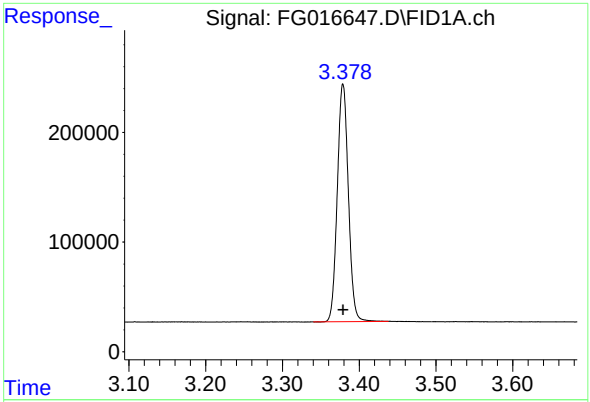
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016647.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:19
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HCSTD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD

Integration File: autoint1.e
Quant Time: Sep 25 16:46:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

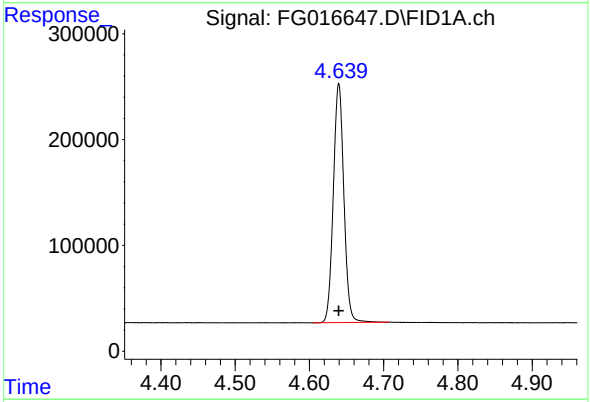




#1 n-Nonane (C9)

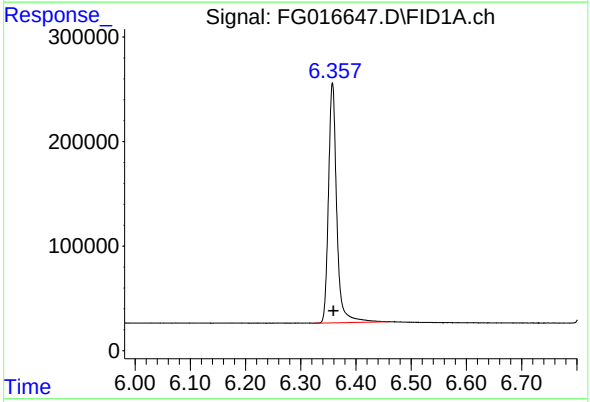
R.T.: 3.379 min
Delta R.T.: 0.000 min
Response: 2171757
Conc: 19.14 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD



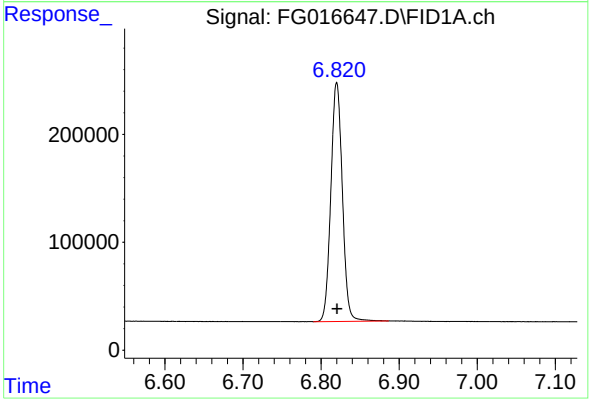
#2 n-Decane (C10)

R.T.: 4.640 min
Delta R.T.: 0.000 min
Response: 2228973
Conc: 19.27 ug/ml



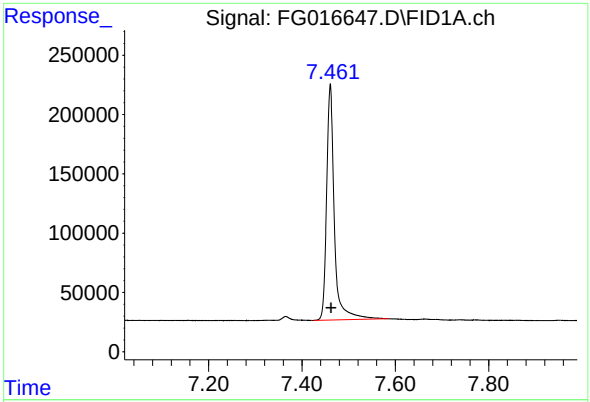
#3 A~Naphthalene (C11.7)

R.T.: 6.358 min
Delta R.T.: -0.002 min
Response: 2388206
Conc: 19.37 ug/ml



#4 n-Dodecane (C12)

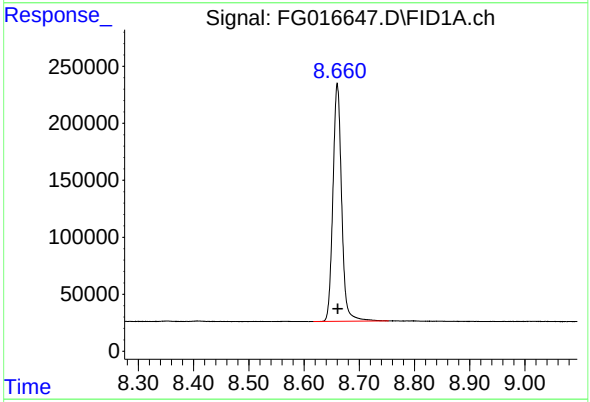
R.T.: 6.820 min
Delta R.T.: 0.000 min
Response: 2266035
Conc: 19.31 ug/ml



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

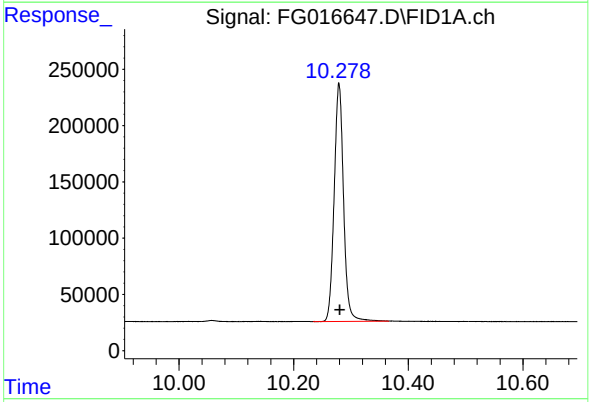
R.T.: 7.461 min
Delta R.T.: -0.002 min
Response: 2284097
Conc: 19.75 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD



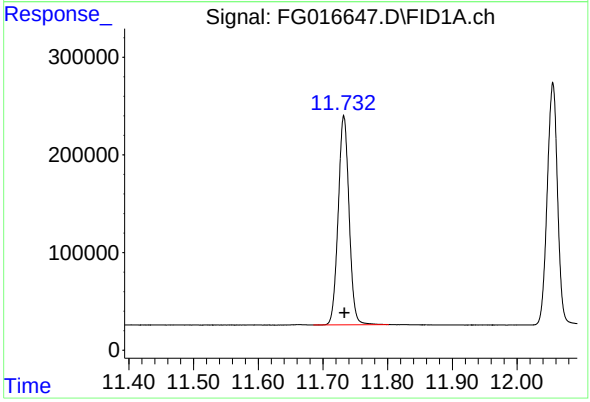
#6 n-Tetradecane (C14)

R.T.: 8.660 min
Delta R.T.: 0.000 min
Response: 2289648
Conc: 19.52 ug/ml



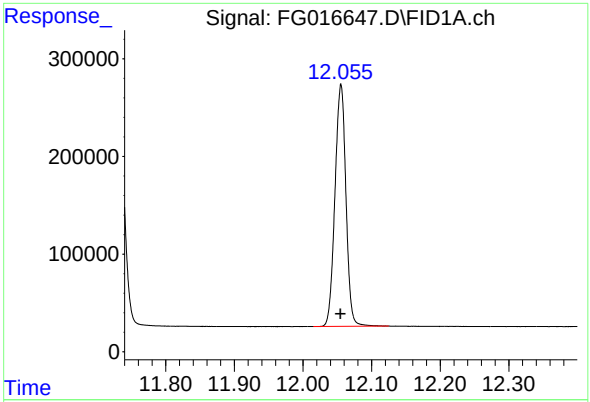
#7 n-Hexadecane (C16)

R.T.: 10.279 min
Delta R.T.: -0.001 min
Response: 2404171
Conc: 19.40 ug/ml



#8 n-Octadecane (C18)

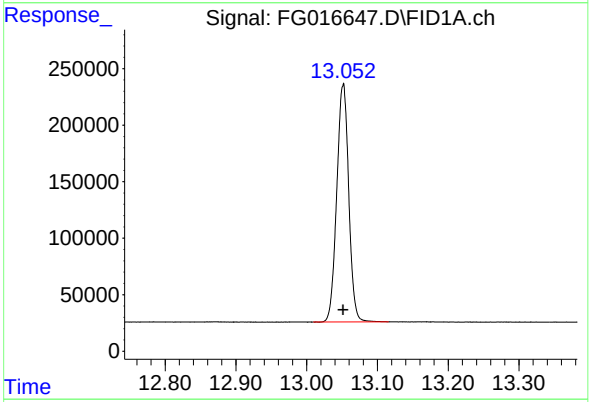
R.T.: 11.732 min
Delta R.T.: 0.000 min
Response: 2499205
Conc: 19.20 ug/ml



#9 ortho-Terphenyl (SURR)

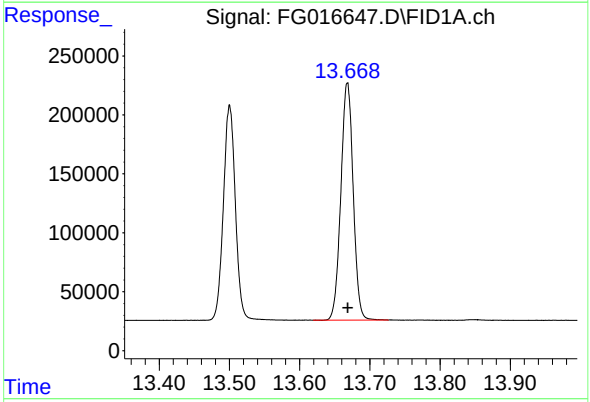
R.T.: 12.055 min
Delta R.T.: 0.000 min
Response: 2749482
Conc: 19.28 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD



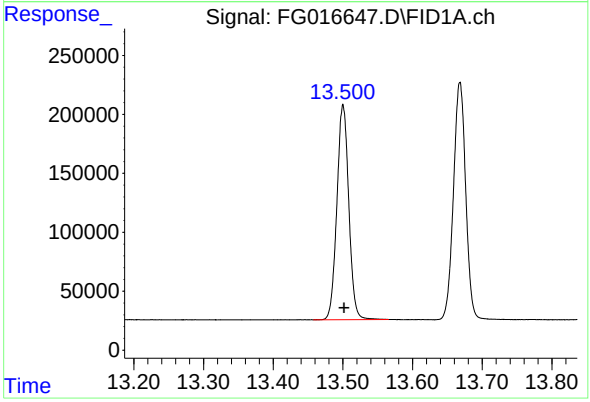
#10 n-Eicosane (C20)

R.T.: 13.052 min
Delta R.T.: 0.000 min
Response: 2472696
Conc: 19.13 ug/ml



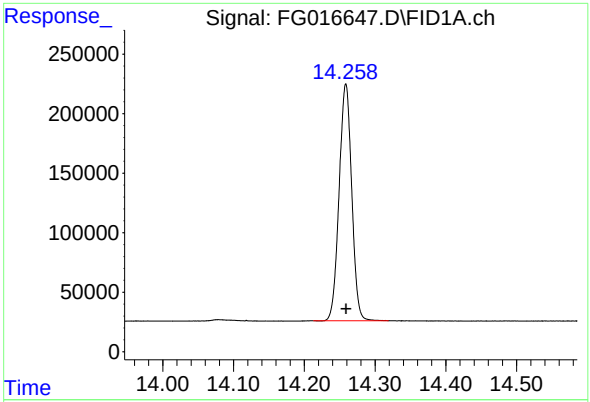
#11 n-Heneicosane (C21)

R.T.: 13.668 min
Delta R.T.: 0.000 min
Response: 2454999
Conc: 19.12 ug/ml



#12 1-chlorooctadecane (SURR)

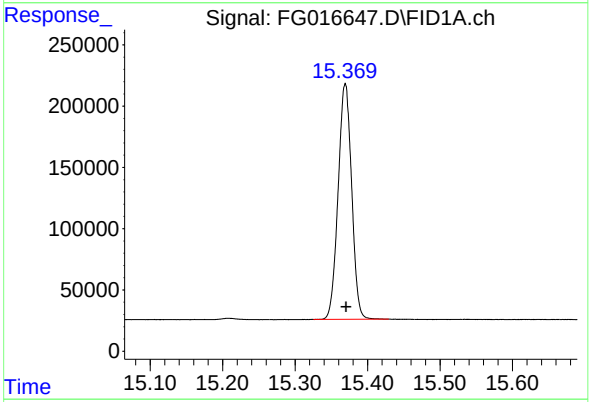
R.T.: 13.500 min
Delta R.T.: -0.002 min
Response: 2160022
Conc: 19.14 ug/ml



#13 n-Docosane (C22)

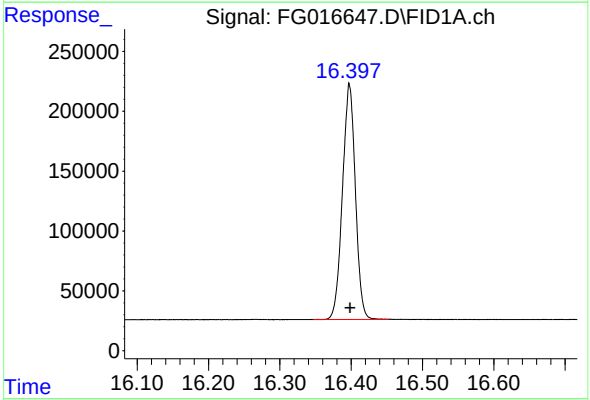
R.T.: 14.259 min
Delta R.T.: 0.000 min
Response: 2461302
Conc: 19.09 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD



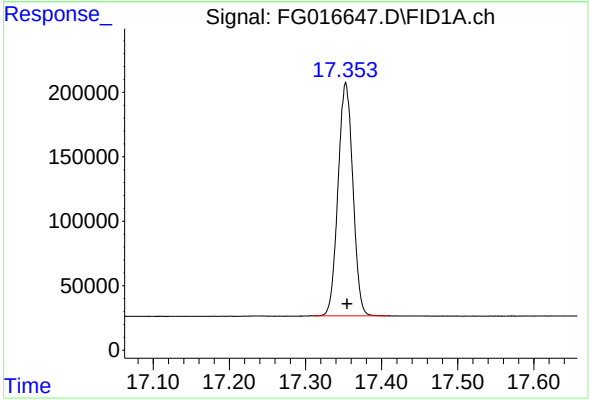
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2493623
Conc: 19.12 ug/ml



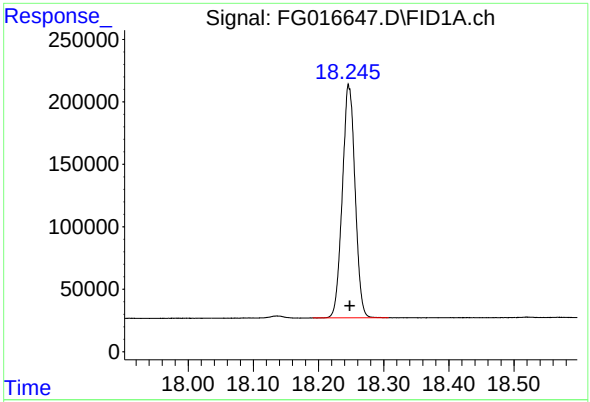
#15 n-Hexacosane (C26)

R.T.: 16.398 min
Delta R.T.: 0.000 min
Response: 2477877
Conc: 19.20 ug/ml



#16 n-Octacosane (C28)

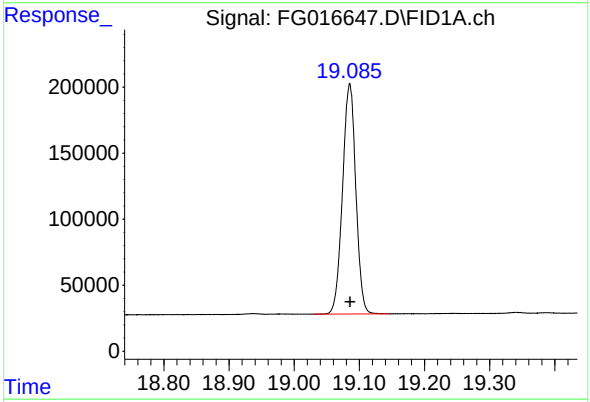
R.T.: 17.353 min
Delta R.T.: -0.002 min
Response: 2449688
Conc: 19.30 ug/ml



#17 n-Tricontane (C30)

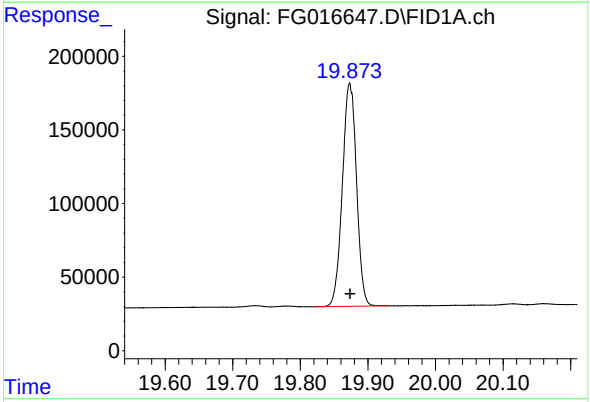
R.T.: 18.246 min
Delta R.T.: -0.002 min
Response: 2538157
Conc: 19.84 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD



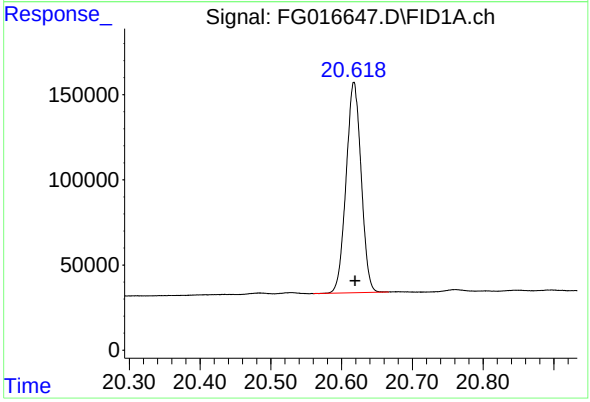
#18 n-Dotriacontane (C32)

R.T.: 19.085 min
Delta R.T.: 0.000 min
Response: 2470437
Conc: 20.17 ug/ml



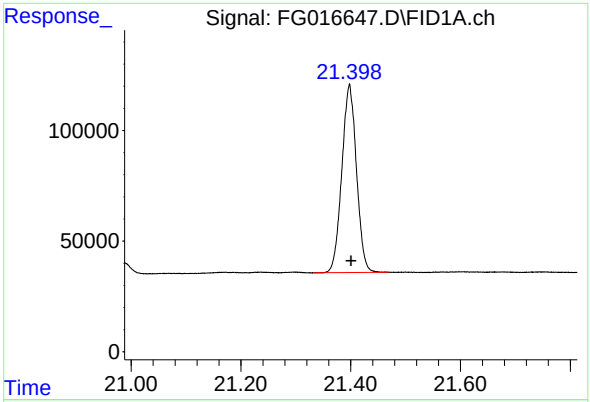
#19 n-Tetratriacontane (C34)

R.T.: 19.873 min
Delta R.T.: 0.000 min
Response: 2202652
Conc: 20.28 ug/ml



#20 n-Hexatriacontane (C36)

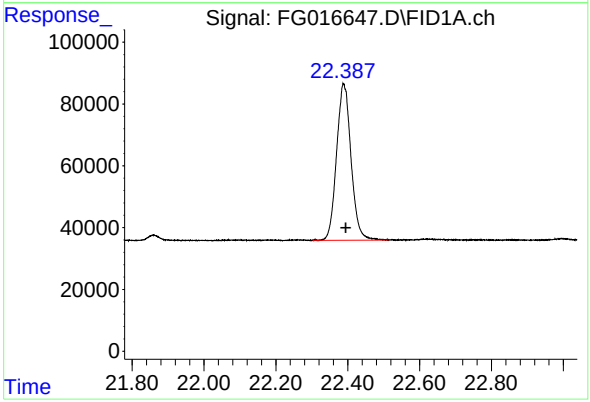
R.T.: 20.617 min
Delta R.T.: -0.002 min
Response: 1824027
Conc: 20.07 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.398 min
Delta R.T.: -0.003 min
Response: 1574253
Conc: 19.33 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HCSTD



#22 n-Tetracontane (C40)

R.T.: 22.388 min
Delta R.T.: -0.006 min
Response: 1415591
Conc: 18.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016647.D
Signal(s) : FID1A.ch
Acq On : 25 Sep 2025 15:19
Sample : 20 PPM ALIPHATIC HCSTD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.379	3.340	3.438	BB	216578	2171757	78.99%	4.320%
2	4.640	4.605	4.707	BB	226058	2228973	81.07%	4.433%
3	6.358	6.323	6.459	BB	229507	2388206	86.86%	4.750%
4	6.820	6.790	6.887	BB	221559	2266035	82.42%	4.507%
5	7.461	7.424	7.586	BB	199187	2284097	83.07%	4.543%
6	8.660	8.617	8.753	BB	208534	2289648	83.28%	4.554%
7	10.279	10.234	10.366	BB	211437	2404171	87.44%	4.782%
8	11.732	11.685	11.802	BB	213950	2499205	90.90%	4.971%
9	12.055	12.015	12.125	BB	247701	2749482	100.00%	5.469%
10	13.052	13.009	13.116	BB	209962	2472696	89.93%	4.918%
11	13.500	13.458	13.566	BB	182752	2160022	78.56%	4.296%
12	13.668	13.619	13.727	BB	201284	2454999	89.29%	4.883%
13	14.259	14.213	14.319	BB	199157	2461302	89.52%	4.895%
14	15.369	15.325	15.429	BB	192438	2493623	90.69%	4.960%
15	16.398	16.347	16.453	BB	196266	2477877	90.12%	4.928%
16	17.353	17.310	17.409	BB	180684	2449688	89.10%	4.872%
17	18.246	18.192	18.308	BB	184919	2538157	92.31%	5.048%
18	19.085	19.029	19.145	BB	174708	2470437	89.85%	4.914%
19	19.873	19.819	19.931	BB	152020	2202652	80.11%	4.381%
20	20.617	20.560	20.667	BB	123482	1824027	66.34%	3.628%
21	21.398	21.332	21.469	BB	85020	1574253	57.26%	3.131%
22	22.388	22.304	22.514	BB	50361	1415591	51.49%	2.816%
			Sum of corrected areas:			50276896		

Aliphatic EPH 092425.M Thu Sep 25 16:49:55 2025

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

Continuing Calibration Report for SequenceID : FG092525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG016658.D**						
Aliphatic C9-C12	6204342.000	60.000	3.279	6.920	103405.700	115503.733	10.474
Aliphatic C12-C16	4278189.000	40.000	6.921	10.379	106954.725	120612.787	11.324
Aliphatic C16-C21	6517273.000	60.000	10.380	13.768	108621.217	129289.357	15.986
Aliphatic C21-C28	8123119.000	80.000	13.769	17.453	101538.988	128839.727	21.190
Aliphatic C28-C40	10096505.000	120.000	17.454	22.488	84137.542	101419.097	17.040
Aliphatic EPH	35219428.000	360.000	3.279	22.488	97831.744	116637.685	16.123

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:	26 Sep 2025 08:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016658.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.279	6.920	6204342.000	60.000	ug/ml
Aliphatic C12-C16	6.921	10.379	4278189.000	40.000	ug/ml
Aliphatic C16-C21	10.380	13.768	6517273.000	60.000	ug/ml
Aliphatic C21-C28	13.769	17.453	8123119.000	80.000	ug/ml
Aliphatic C28-C40	17.454	22.488	10096505.000	120.000	ug/ml
Aliphatic EPH	3.279	22.488	35219428.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016658.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 26 23:59:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	12.062	2421491	16.977 ug/ml
Spiked Amount	50.000		Recovery =	33.95%
12) S	1-chlorooctadecane (S...	13.509	1858136	16.462 ug/ml
Spiked Amount	50.000		Recovery =	32.92%
	Target Compounds			
1) T	n-Nonane (C9)	3.381	2014067	17.748 ug/ml
2) T	n-Decane (C10)	4.643	2074802	17.940 ug/ml
3) T	A~Naphthalene (C11.7)	6.362	2190698	17.768 ug/ml
4) T	n-Dodecane (C12)	6.825	2115473	18.023 ug/ml
5) T	A~2-methylnaphthalene...	7.466	2050353	17.725 ug/ml
6) T	n-Tetradecane (C14)	8.665	2100252	17.902 ug/ml
7) T	n-Hexadecane (C16)	10.285	2177937	17.578 ug/ml
8) T	n-Octadecane (C18)	11.739	2232218	17.147 ug/ml
10) T	n-Eicosane (C20)	13.058	2162454	16.727 ug/ml
11) T	n-Heneicosane (C21)	13.676	2122601	16.529 ug/ml
13) T	n-Docosane (C22)	14.267	2102965	16.309 ug/ml
14) T	n-Tetracosane (C24)	15.378	2062758	15.816 ug/ml
15) T	n-Hexacosane (C26)	16.406	1992603	15.436 ug/ml
16) T	n-Octacosane (C28)	17.364	1964793	15.483 ug/ml
17) T	n-Tricontane (C30)	18.257	2061102	16.108 ug/ml
18) T	n-Dotriacontane (C32)	19.095	2014056	16.445 ug/ml
19) T	n-Tetratriacontane (C34)	19.884	1778585	16.372 ug/mlm
20) T	n-Hexatriacontane (C36)	20.625	1491820	16.417 ug/mlm
21) T	n-Octatriacontane (C38)	21.410	1442072	17.707 ug/mlm
22) T	n-Tetracontane (C40)	22.407	1308870	16.967 ug/mlm

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

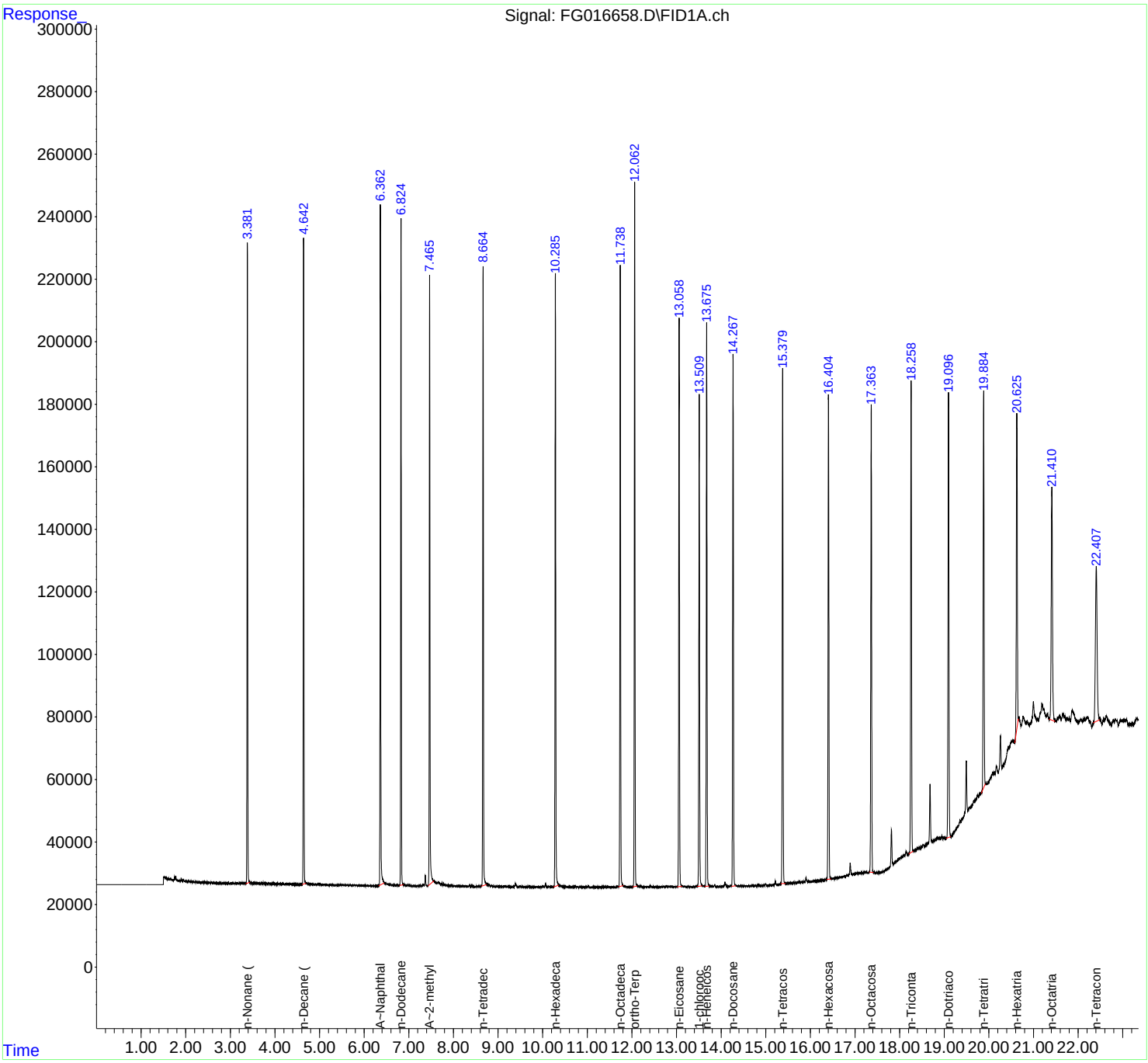
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016658.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 08:42
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

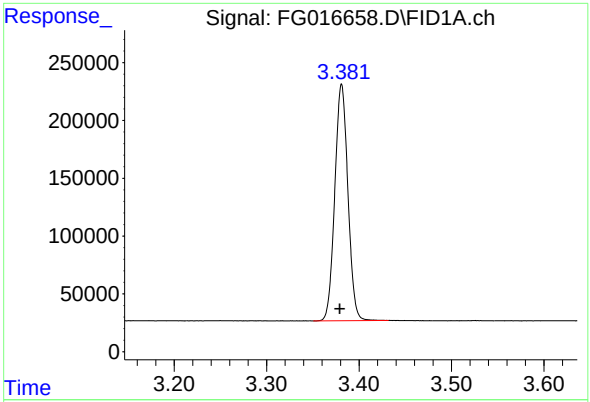
Integration File: autoint1.e
Quant Time: Sep 26 23:59:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025





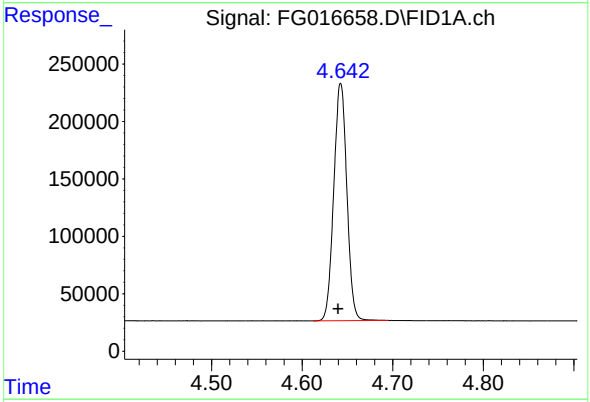
#1 n-Nonane (C9)

R.T.: 3.381 min
Delta R.T.: 0.002 min
Response: 2014067
Conc: 17.75 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

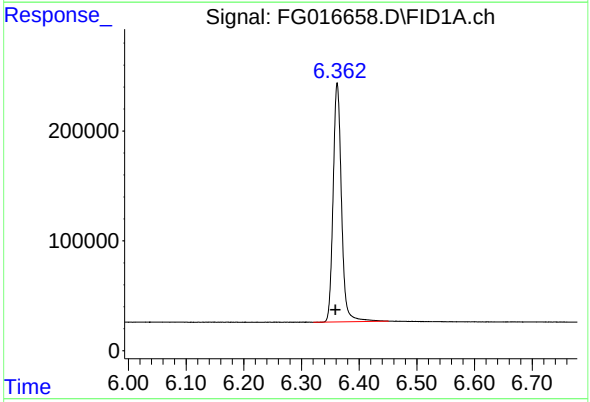
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



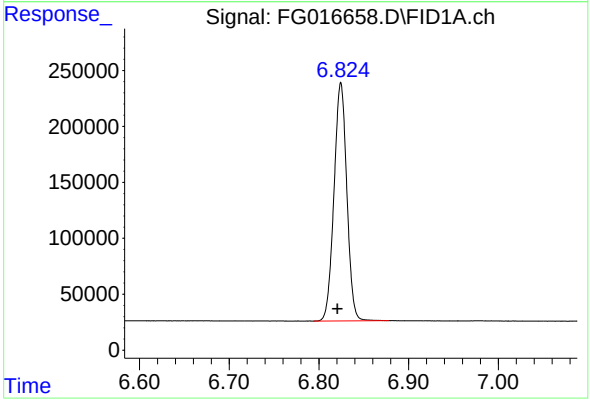
#2 n-Decane (C10)

R.T.: 4.643 min
Delta R.T.: 0.003 min
Response: 2074802
Conc: 17.94 ug/ml



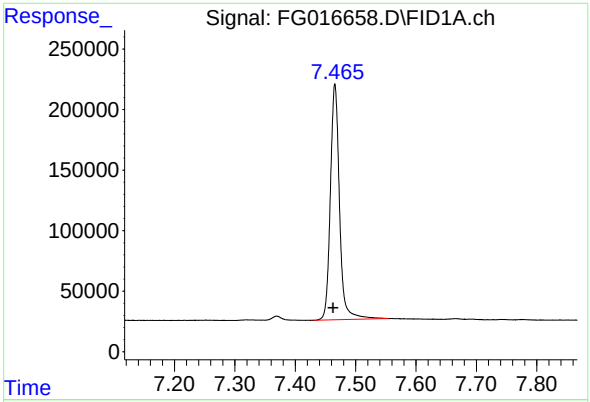
#3 A~Naphthalene (C11.7)

R.T.: 6.362 min
Delta R.T.: 0.003 min
Response: 2190698
Conc: 17.77 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.825 min
Delta R.T.: 0.004 min
Response: 2115473
Conc: 18.02 ug/ml



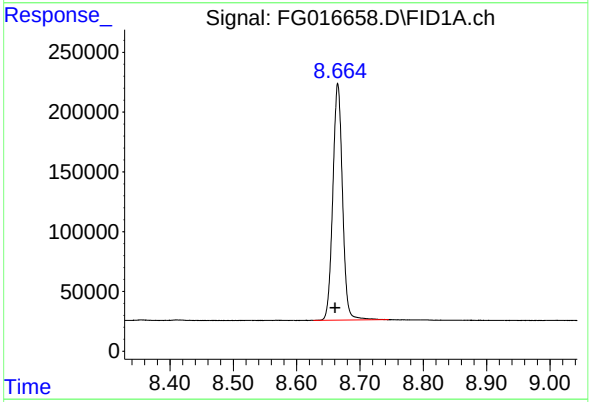
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.466 min
Delta R.T.: 0.003 min
Response: 2050353
Conc: 17.73 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

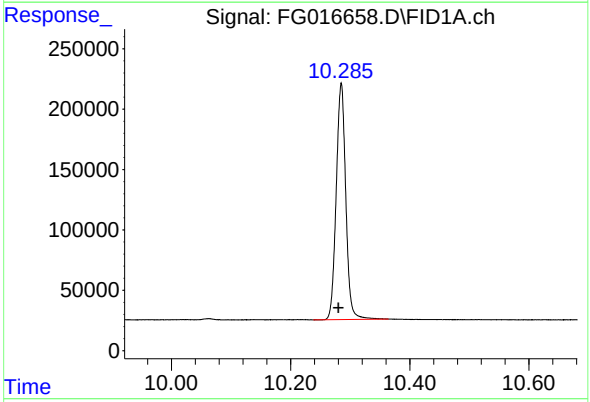
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



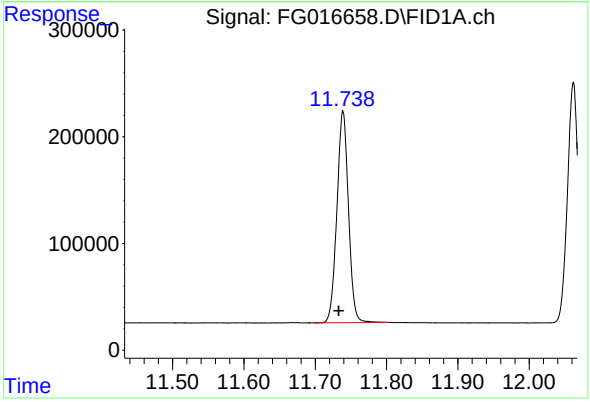
#6 n-Tetradecane (C14)

R.T.: 8.665 min
Delta R.T.: 0.004 min
Response: 2100252
Conc: 17.90 ug/ml



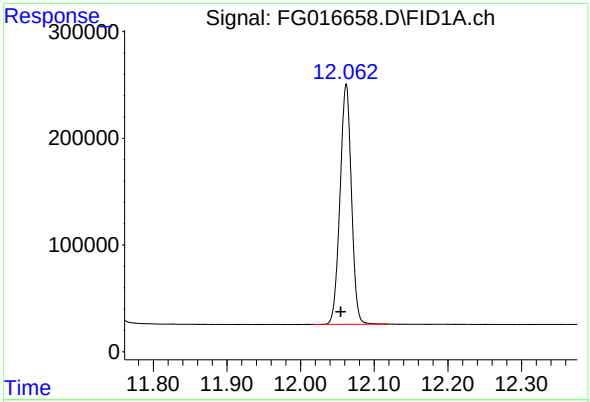
#7 n-Hexadecane (C16)

R.T.: 10.285 min
Delta R.T.: 0.005 min
Response: 2177937
Conc: 17.58 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.739 min
Delta R.T.: 0.006 min
Response: 2232218
Conc: 17.15 ug/ml



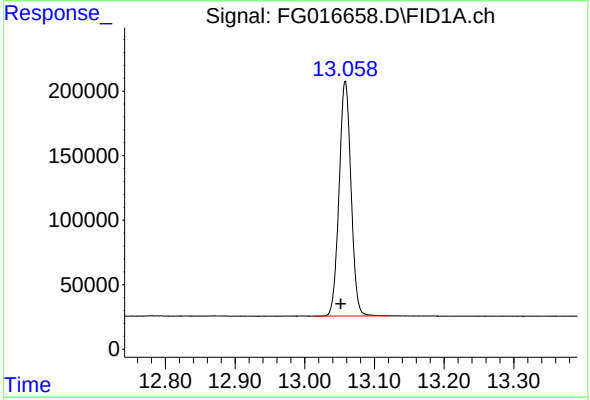
#9 ortho-Terphenyl (SURR)

R.T.: 12.062 min
Delta R.T.: 0.007 min
Response: 2421491
Conc: 16.98 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

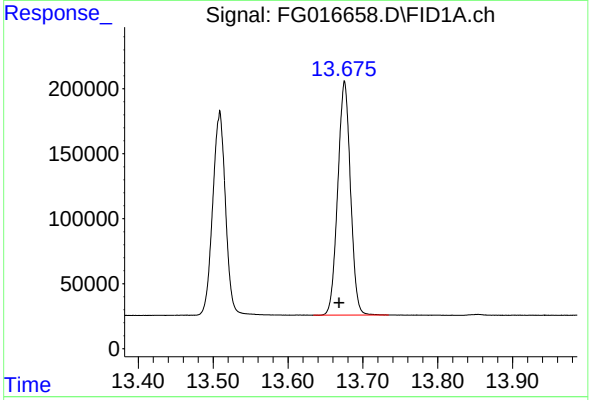
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



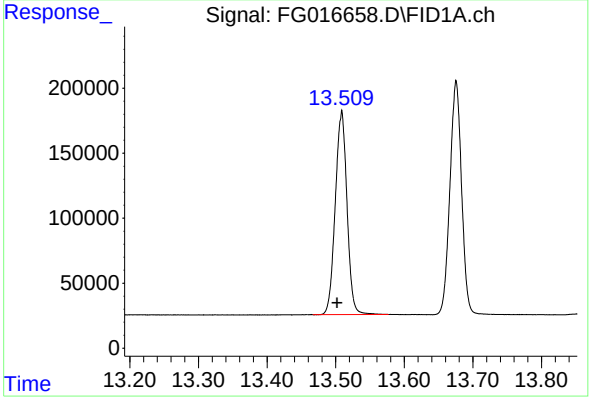
#10 n-Eicosane (C20)

R.T.: 13.058 min
Delta R.T.: 0.007 min
Response: 2162454
Conc: 16.73 ug/ml



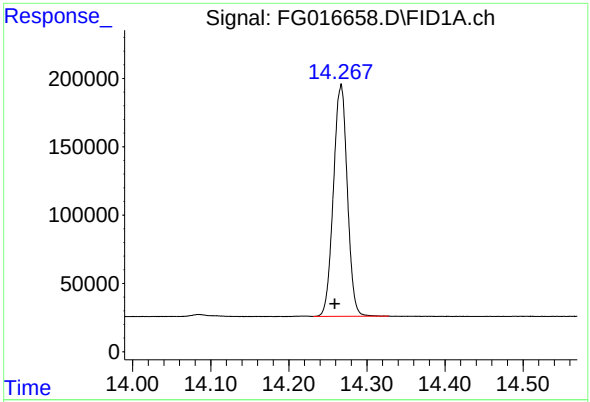
#11 n-Heneicosane (C21)

R.T.: 13.676 min
Delta R.T.: 0.007 min
Response: 2122601
Conc: 16.53 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.509 min
Delta R.T.: 0.007 min
Response: 1858136
Conc: 16.46 ug/ml



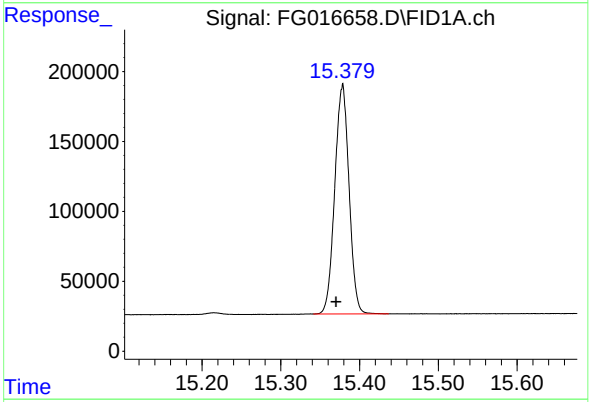
#13 n-Docosane (C22)

R.T.: 14.267 min
Delta R.T.: 0.008 min
Response: 2102965
Conc: 16.31 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

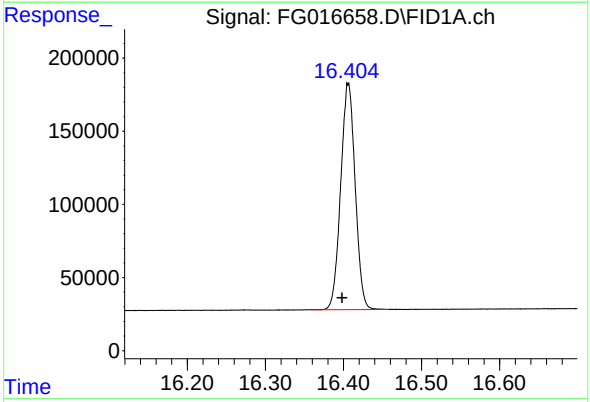
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



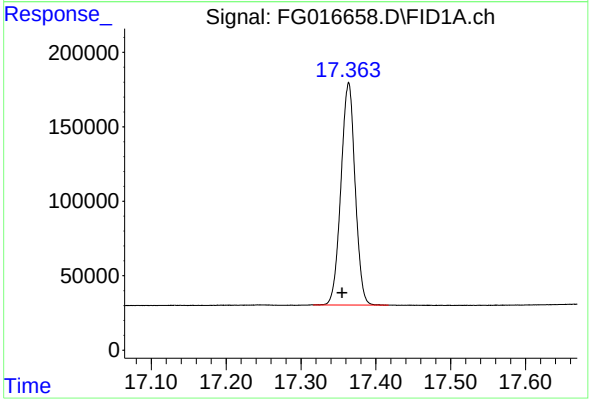
#14 n-Tetracosane (C24)

R.T.: 15.378 min
Delta R.T.: 0.008 min
Response: 2062758
Conc: 15.82 ug/ml



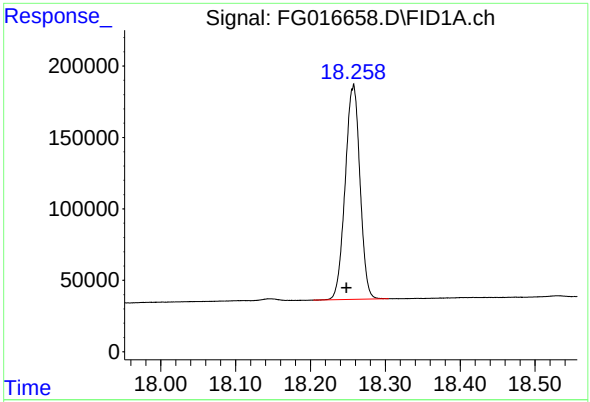
#15 n-Hexacosane (C26)

R.T.: 16.406 min
Delta R.T.: 0.008 min
Response: 1992603
Conc: 15.44 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.364 min
Delta R.T.: 0.009 min
Response: 1964793
Conc: 15.48 ug/ml



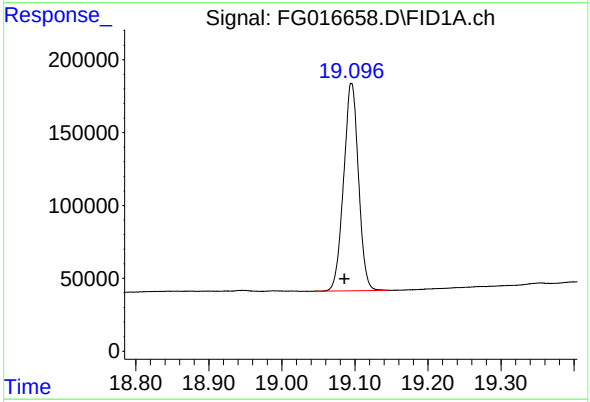
#17 n-Tricontane (C30)

R.T.: 18.257 min
Delta R.T.: 0.010 min
Response: 2061102
Conc: 16.11 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

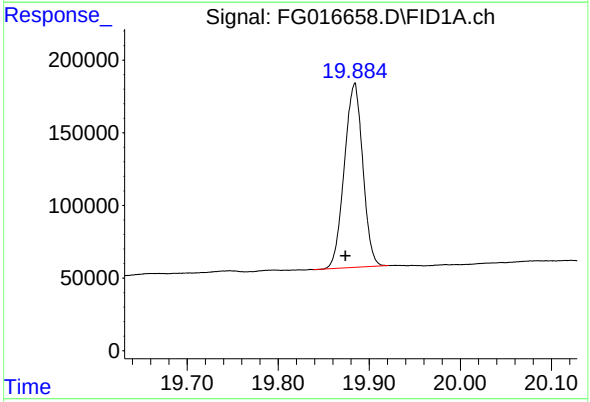
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



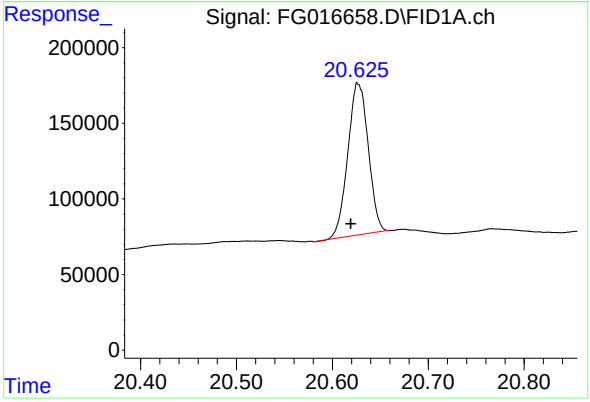
#18 n-Dotriacontane (C32)

R.T.: 19.095 min
Delta R.T.: 0.010 min
Response: 2014056
Conc: 16.45 ug/ml



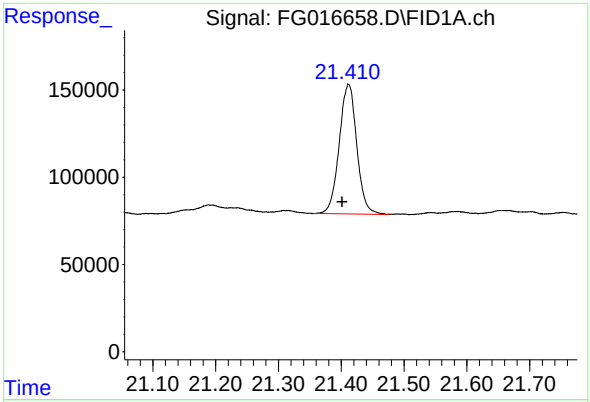
#19 n-Tetratriacontane (C34)

R.T.: 19.884 min
Delta R.T.: 0.011 min
Response: 1778585
Conc: 16.37 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.625 min
Delta R.T.: 0.006 min
Response: 1491820
Conc: 16.42 ug/ml m



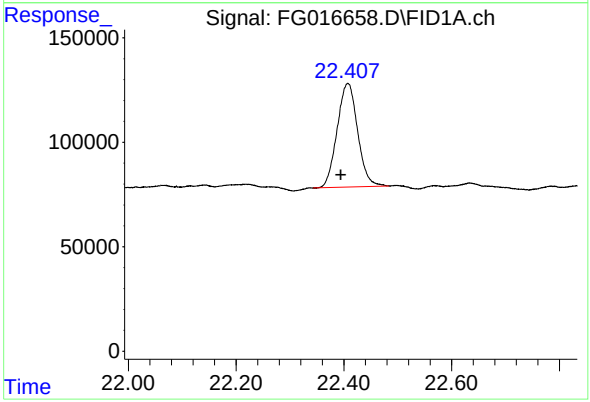
#21 n-Octatriacontane (C38)

R.T.: 21.410 min
Delta R.T.: 0.009 min
Response: 1442072
Conc: 17.71 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



#22 n-Tetracontane (C40)

R.T.: 22.407 min
Delta R.T.: 0.013 min
Response: 1308870
Conc: 16.97 ug/ml m

Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016658.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 08:42
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.381	3.350	3.432	BB	204682	2014067	83.17%	4.599%
2	4.643	4.612	4.695	BB	206643	2074802	85.68%	4.738%
3	6.362	6.320	6.451	BB	217465	2190698	90.47%	5.003%
4	6.825	6.794	6.878	BB	213112	2115473	87.36%	4.831%
5	7.466	7.430	7.555	BB	194775	2050353	84.67%	4.682%
6	8.665	8.626	8.745	BB	197519	2100252	86.73%	4.796%
7	10.285	10.238	10.365	BB	195771	2177937	89.94%	4.974%
8	11.739	11.697	11.803	BB	198480	2232218	92.18%	5.098%
9	12.062	12.017	12.120	BB	225338	2421491	100.00%	5.530%
10	13.058	13.012	13.120	BB	181892	2162454	89.30%	4.938%
11	13.509	13.467	13.577	BB	156753	1858136	76.74%	4.243%
12	13.676	13.634	13.735	BB	180153	2122601	87.66%	4.847%
13	14.267	14.231	14.328	BB	170081	2102965	86.85%	4.803%
14	15.378	15.341	15.437	BB	164718	2062758	85.19%	4.711%
15	16.406	16.361	16.458	BB	153995	1992603	82.29%	4.550%
16	17.364	17.316	17.417	BB	149567	1964793	81.14%	4.487%
17	18.257	18.204	18.305	BB	151057	2061102	85.12%	4.707%
18	19.095	19.043	19.146	BB	142163	2014056	83.17%	4.599%
19	19.884	19.831	19.935	M	127239	1794127	74.09%	4.097%
20	20.625	20.582	20.658	M	101342	1502776	62.06%	3.432%
21	21.412	21.356	21.509	PV	74246	1449009	59.84%	3.309%
22	22.408	22.294	22.486	BV	49876	1324172	54.68%	3.024%
			Sum of corrected areas:			43788844		

Aliphatic EPH 092425.M Sat Sep 27 00:28:15 2025

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

Continuing Calibration Report for SequenceID : FG092525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG016663.D**						
Aliphatic C9-C12	6185611.000	60.000	3.279	6.920	103093.517	115503.733	10.744
Aliphatic C12-C16	4240489.000	40.000	6.921	10.379	106012.225	120612.787	12.105
Aliphatic C16-C21	6462572.000	60.000	10.380	13.768	107709.533	129289.357	16.691
Aliphatic C21-C28	8012139.000	80.000	13.769	17.453	100151.738	128839.727	22.266
Aliphatic C28-C40	9996469.000	120.000	17.454	22.488	83303.908	101419.097	17.862
Aliphatic EPH	34897280.000	360.000	3.279	22.488	96936.889	116637.685	16.891

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:	26 Sep 2025 11:10
Client Sample ID:		Operator:	YP\AJ
Data file:	FG016663.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.279	6.920	6185611.000	60.000	ug/ml
Aliphatic C12-C16	6.921	10.379	4240489.000	40.000	ug/ml
Aliphatic C16-C21	10.380	13.768	6462572.000	60.000	ug/ml
Aliphatic C21-C28	13.769	17.453	8012139.000	80.000	ug/ml
Aliphatic C28-C40	17.454	22.488	9996469.000	120.000	ug/ml
Aliphatic EPH	3.279	22.488	34897280.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016663.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 11:10
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Sep 27 00:02:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	12.060	2400352	16.829 ug/ml
Spiked Amount	50.000		Recovery =	33.66%
12) S	1-chlorooctadecane (S...	13.506	1842088	16.320 ug/ml
Spiked Amount	50.000		Recovery =	32.64%
	Target Compounds			
1) T	n-Nonane (C9)	3.381	2011686	17.727 ug/ml
2) T	n-Decane (C10)	4.642	2074149	17.934 ug/ml
3) T	A~Naphthalene (C11.7)	6.361	2176161	17.650 ug/ml
4) T	n-Dodecane (C12)	6.824	2099776	17.889 ug/ml
5) T	A~2-methylnaphthalene...	7.465	2031759	17.564 ug/ml
6) T	n-Tetradecane (C14)	8.664	2081922	17.745 ug/ml
7) T	n-Hexadecane (C16)	10.283	2158567	17.421 ug/ml
8) T	n-Octadecane (C18)	11.737	2217722	17.036 ug/ml
10) T	n-Eicosane (C20)	13.057	2142034	16.570 ug/ml
11) T	n-Heneicosane (C21)	13.673	2102816	16.375 ug/ml
13) T	n-Docosane (C22)	14.265	2079058	16.124 ug/ml
14) T	n-Tetracosane (C24)	15.377	2044826	15.678 ug/ml
15) T	n-Hexacosane (C26)	16.405	1972071	15.277 ug/ml
16) T	n-Octacosane (C28)	17.362	1916184	15.099 ug/ml
17) T	n-Tricontane (C30)	18.255	1976946	15.450 ug/ml
18) T	n-Dotriacontane (C32)	19.093	1963678	16.034 ug/ml
19) T	n-Tetratriacontane (C34)	19.882	1795135	16.524 ug/mlm
20) T	n-Hexatriacontane (C36)	20.627	1522728	16.757 ug/mlm
21) T	n-Octatriacontane (C38)	21.409	1411187	17.328 ug/ml
22) T	n-Tetracontane (C40)	22.404	1326795	17.200 ug/ml

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

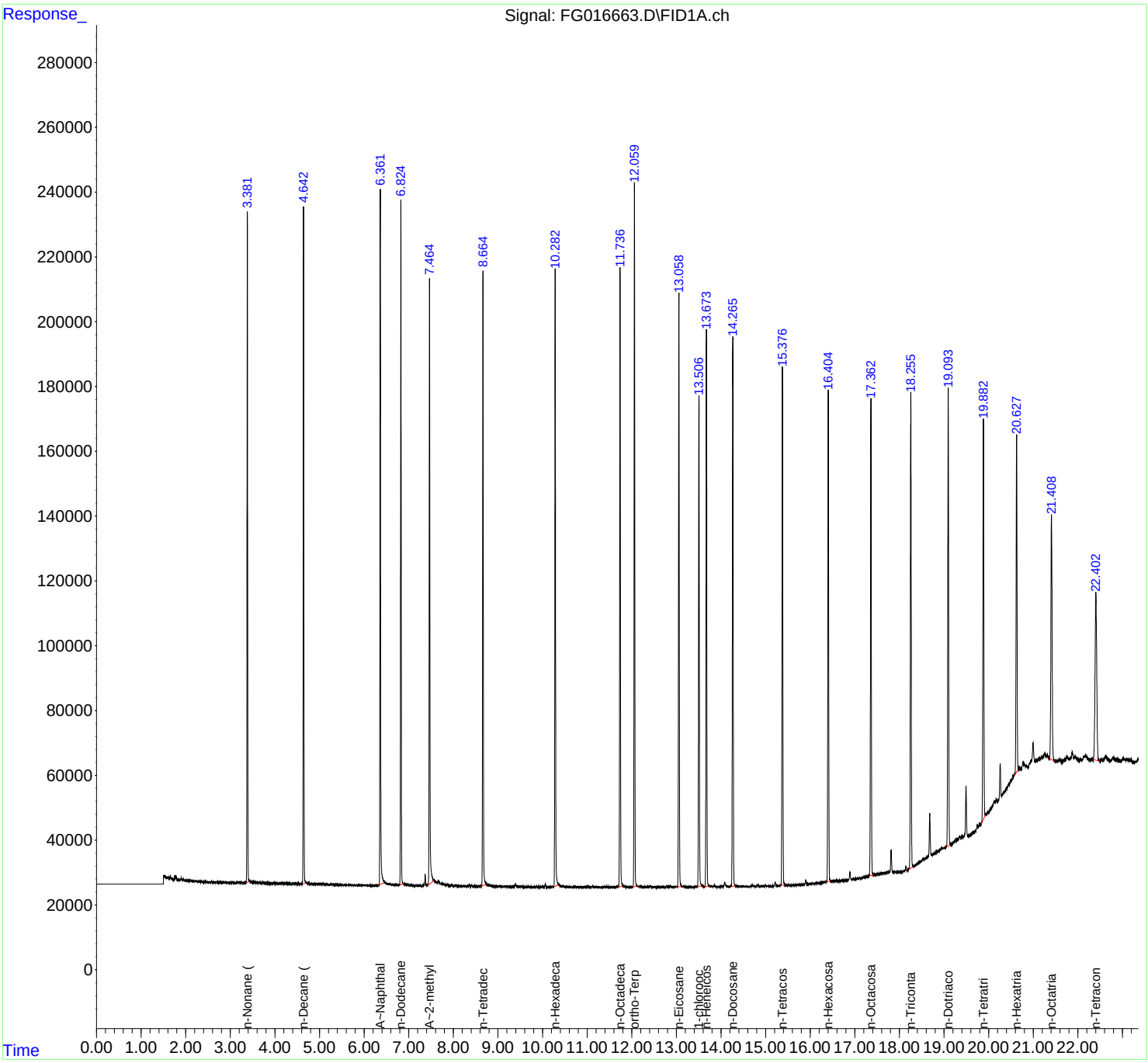
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016663.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 11:10
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

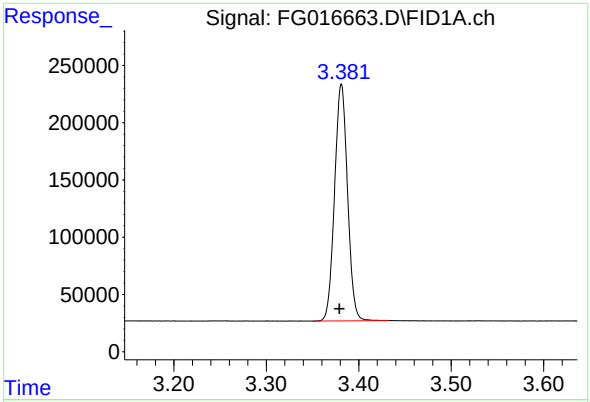
Integration File: autoint1.e
Quant Time: Sep 27 00:02:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025





#1 n-Nonane (C9)

R.T.: 3.381 min
Delta R.T.: 0.002 min
Response: 2011686
Conc: 17.73 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

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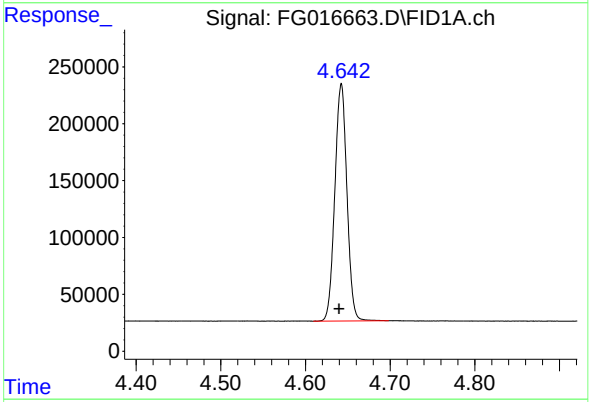
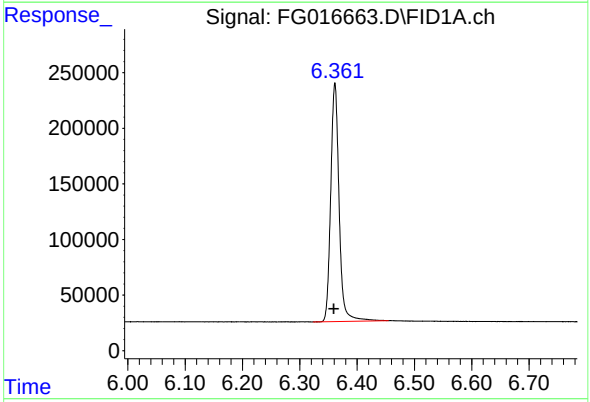


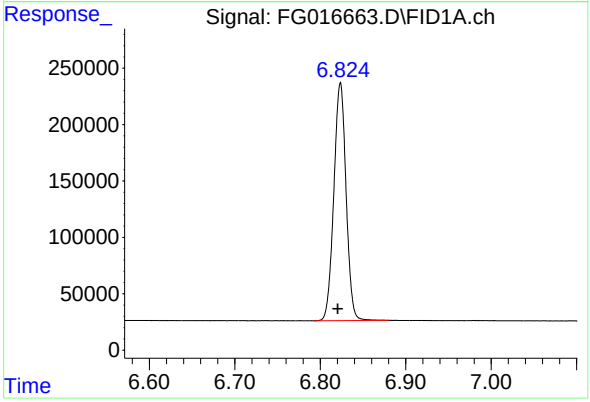
#2 n-Decane (C10)

R.T.: 4.642 min
Delta R.T.: 0.003 min
Response: 2074149
Conc: 17.93 ug/ml



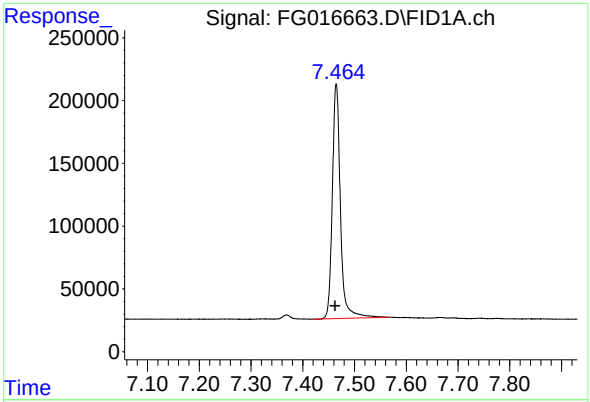
#3 A~Naphthalene (C11.7)

R.T.: 6.361 min
Delta R.T.: 0.002 min
Response: 2176161
Conc: 17.65 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.824 min
Delta R.T.: 0.003 min
Response: 2099776
Conc: 17.89 ug/ml



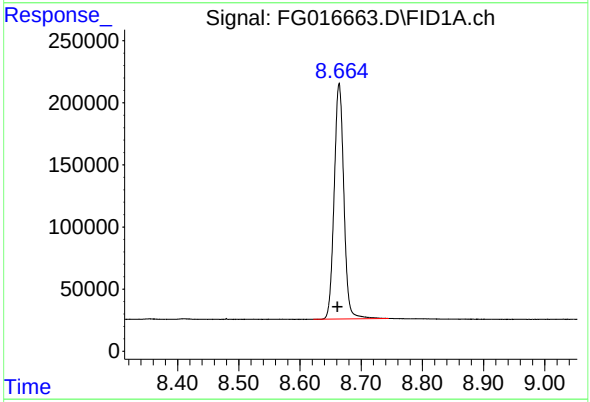
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.465 min
Delta R.T.: 0.002 min
Response: 2031759
Conc: 17.56 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

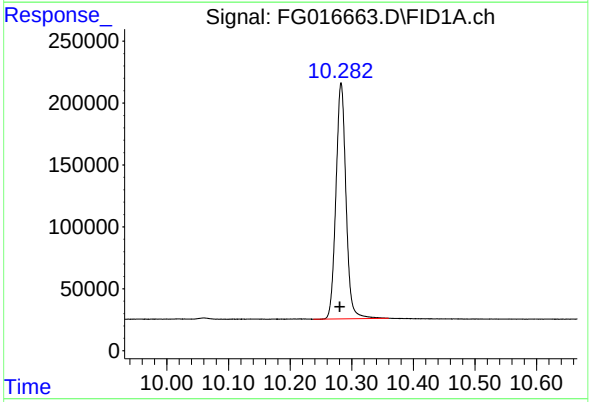
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



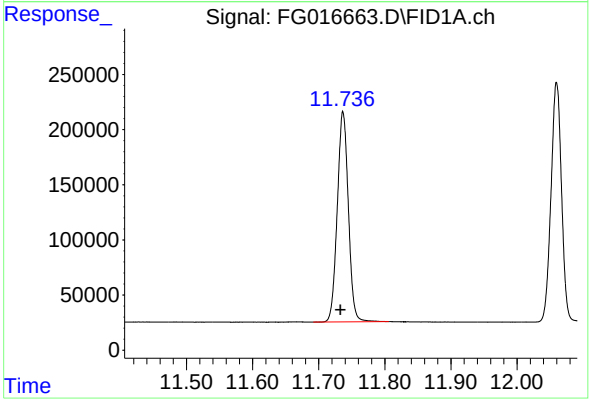
#6 n-Tetradecane (C14)

R.T.: 8.664 min
Delta R.T.: 0.003 min
Response: 2081922
Conc: 17.75 ug/ml



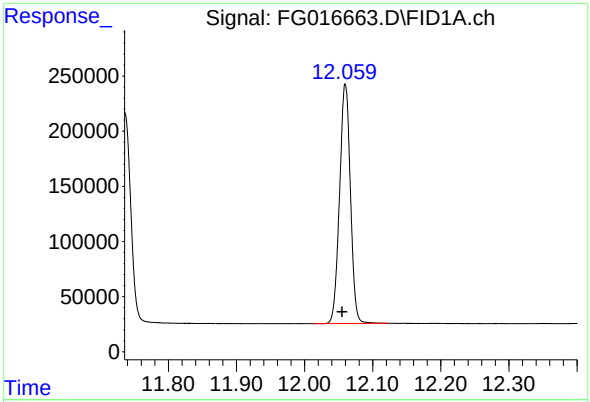
#7 n-Hexadecane (C16)

R.T.: 10.283 min
Delta R.T.: 0.002 min
Response: 2158567
Conc: 17.42 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.737 min
Delta R.T.: 0.004 min
Response: 2217722
Conc: 17.04 ug/ml



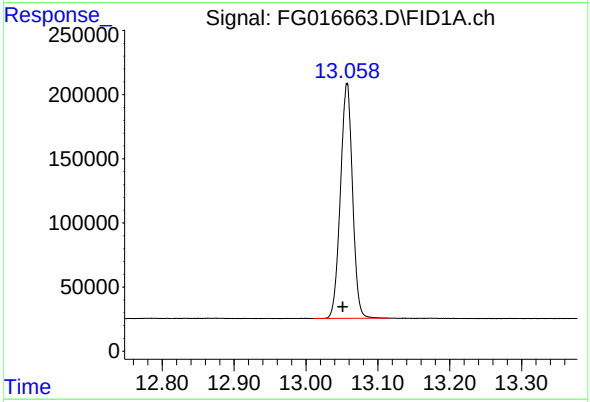
#9 ortho-Terphenyl (SURR)

R.T.: 12.060 min
Delta R.T.: 0.005 min
Response: 2400352
Conc: 16.83 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

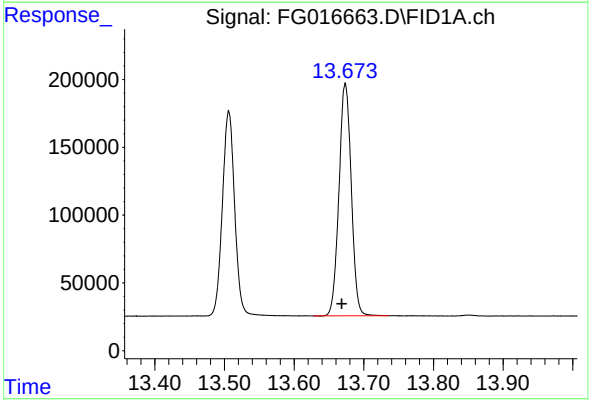
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



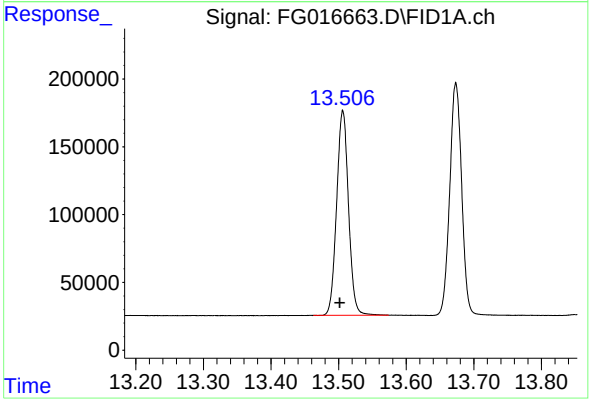
#10 n-Eicosane (C20)

R.T.: 13.057 min
Delta R.T.: 0.006 min
Response: 2142034
Conc: 16.57 ug/ml



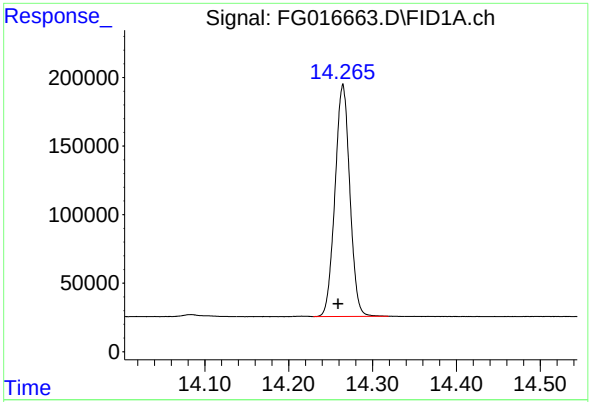
#11 n-Heneicosane (C21)

R.T.: 13.673 min
Delta R.T.: 0.005 min
Response: 2102816
Conc: 16.38 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.506 min
Delta R.T.: 0.005 min
Response: 1842088
Conc: 16.32 ug/ml



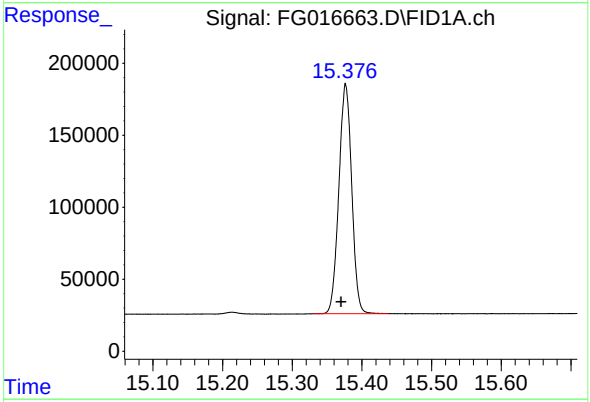
#13 n-Docosane (C22)

R.T.: 14.265 min
Delta R.T.: 0.006 min
Response: 2079058
Conc: 16.12 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

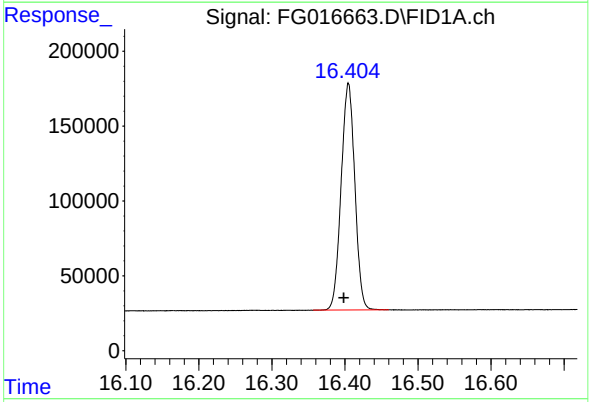
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



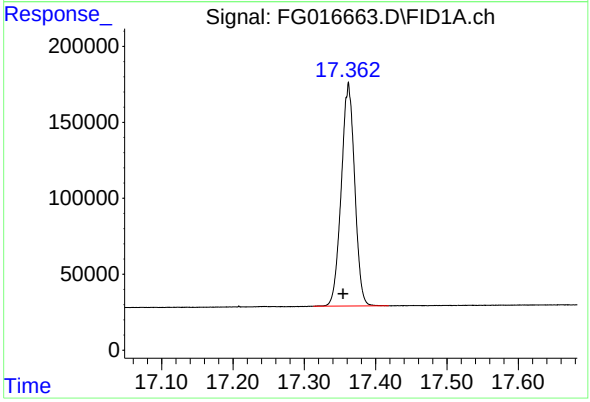
#14 n-Tetracosane (C24)

R.T.: 15.377 min
Delta R.T.: 0.006 min
Response: 2044826
Conc: 15.68 ug/ml



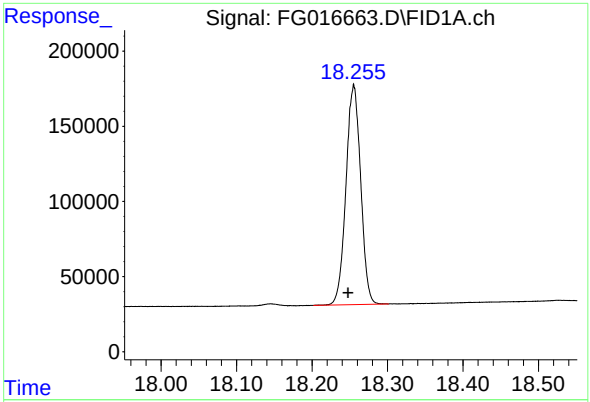
#15 n-Hexacosane (C26)

R.T.: 16.405 min
Delta R.T.: 0.007 min
Response: 1972071
Conc: 15.28 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.362 min
Delta R.T.: 0.007 min
Response: 1916184
Conc: 15.10 ug/ml



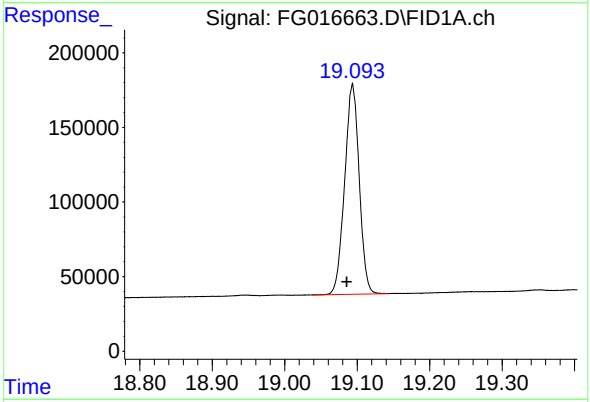
#17 n-Tricontane (C30)

R.T.: 18.255 min
Delta R.T.: 0.008 min
Response: 1976946
Conc: 15.45 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

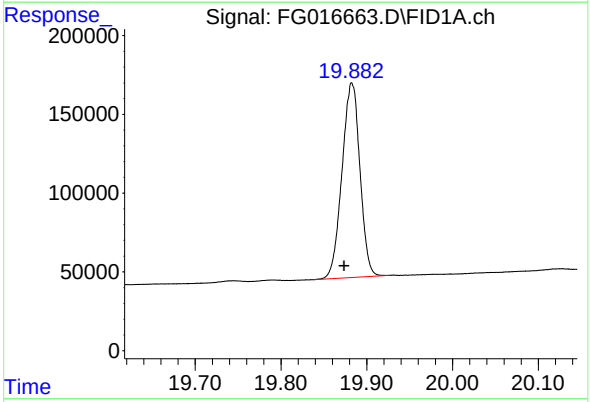
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



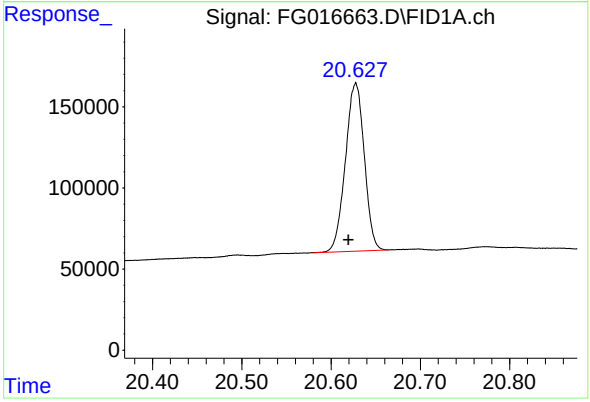
#18 n-Dotriacontane (C32)

R.T.: 19.093 min
Delta R.T.: 0.008 min
Response: 1963678
Conc: 16.03 ug/ml



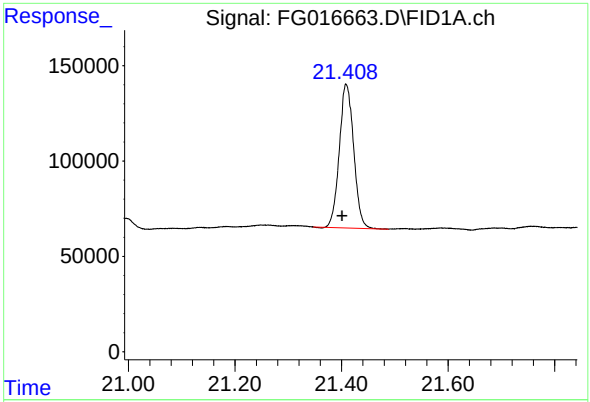
#19 n-Tetratriacontane (C34)

R.T.: 19.882 min
Delta R.T.: 0.009 min
Response: 1795135
Conc: 16.52 ug/ml m



#20 n-Hexatriacontane (C36)

R.T.: 20.627 min
Delta R.T.: 0.008 min
Response: 1522728
Conc: 16.76 ug/ml m



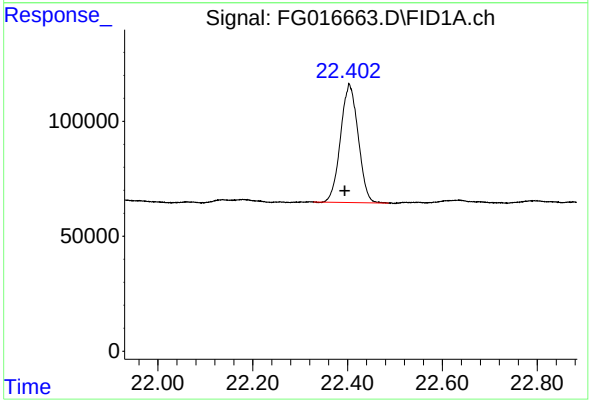
#21 n-Octatriacontane (C38)

R.T.: 21.409 min
Delta R.T.: 0.008 min
Response: 1411187
Conc: 17.33 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025



#22 n-Tetracontane (C40)

R.T.: 22.404 min
Delta R.T.: 0.009 min
Response: 1326795
Conc: 17.20 ug/ml

Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/29/2025
Supervised By :mohammad ahmed 09/30/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016663.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 11:10
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.381	3.351	3.433	BB	206870	2011686	83.81%	4.640%
2	4.642	4.609	4.698	BB	208981	2074149	86.41%	4.784%
3	6.361	6.323	6.455	BB	214882	2176161	90.66%	5.019%
4	6.824	6.792	6.880	BB	210792	2099776	87.48%	4.843%
5	7.465	7.420	7.566	BB	186879	2031759	84.64%	4.686%
6	8.664	8.622	8.745	BB	189653	2081922	86.73%	4.802%
7	10.283	10.238	10.360	BB	190595	2158567	89.93%	4.979%
8	11.737	11.692	11.806	BB	190556	2217722	92.39%	5.115%
9	12.060	12.013	12.123	BB	216826	2400352	100.00%	5.536%
10	13.057	13.010	13.115	BB	182582	2142034	89.24%	4.941%
11	13.506	13.463	13.574	BB	150788	1842088	76.74%	4.249%
12	13.673	13.628	13.736	BB	171790	2102816	87.60%	4.850%
13	14.265	14.229	14.319	BB	169880	2079058	86.61%	4.795%
14	15.377	15.330	15.438	BB	159364	2044826	85.19%	4.716%
15	16.405	16.357	16.460	BB	151201	1972071	82.16%	4.549%
16	17.362	17.313	17.418	BB	147018	1916184	79.83%	4.420%
17	18.255	18.202	18.302	BB	146376	1976946	82.36%	4.560%
18	19.093	19.039	19.143	BB	141042	1963678	81.81%	4.529%
19	19.883	19.704	19.938	BB	123295	1792615	74.68%	4.135%
20	20.628	20.289	20.665	PB	103899	1533201	63.87%	3.536%
21	21.409	21.347	21.488	BB	75380	1411187	58.79%	3.255%
22	22.404	22.328	22.487	BB	51627	1326795	55.28%	3.060%
			Sum of corrected areas:			43355593		

Aliphatic EPH 092425.M Sat Sep 27 00:29:18 2025

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 916	Date Received:	
Client Sample ID:	PB169823BL	SDG No.:	Q3176
Lab Sample ID:	PB169823BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/25/25 08:15	09/26/25 10:37	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.14	U	1	0.14	1.00	mg/kg	FC069854.D
Aliphatic C12-C16	Aliphatic C12-C16	0.11	U	1	0.11	0.67	mg/kg	FC069854.D
Aliphatic C16-C21	Aliphatic C16-C21	0.13	U	1	0.13	1.00	mg/kg	FC069854.D
Aliphatic C21-C28	Aliphatic C21-C28	0.53	U	1	0.53	1.33	mg/kg	FC069854.D
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FC069854.D
Aromatic C10-C12	Aromatic C10-C12	0.12	U	1	0.12	0.67	mg/kg	FD049785.D
Aromatic C12-C16	Aromatic C12-C16	0.23	U	1	0.23	1.00	mg/kg	FD049785.D
Aromatic C16-C21	Aromatic C16-C21	0.40	U	1	0.40	1.67	mg/kg	FD049785.D
Aromatic C21-C36	Aromatic C21-C36	1.19	U	1	1.19	2.67	mg/kg	FD049785.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	1.94	U		1.94	6.01	mg/kg	
Total EPH	Total EPH	4.03	U		4.03	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 916		Date Received:		
Client Sample ID:	PB169823BL		SDG No.:	Q3176	
Lab Sample ID:	PB169823BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069854.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.14	U	0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.11	U	0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.13	U	0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.53	U	0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.18	U	1.18	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		27.2		40 - 140	54%	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:	PB169823BL	Acq On:	26 Sep 2025 10:37
Client Sample ID:	PB169823BL	Operator:	YP/AJ
Data file:	FC069854.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	3.300	6.593	0	0	300	ug/ml
Aliphatic C12-C16	6.594	9.993	0	0	200	ug/ml
Aliphatic C16-C21	9.994	13.360	0	0	300	ug/ml
Aliphatic C21-C28	13.361	17.023	0	0	400	ug/ml
Aliphatic C28-C40	17.024	21.984	0	0	600	ug/ml
Aliphatic EPH	3.300	21.984	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.094	13.094	4292135	27.18		ug/ml
Aliphatic C9-C28	3.300	17.023	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069854.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:37
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Sep 27 06:07:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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			
12) S 1-chlorooctadecane (S...	13.094	4292135	27.179 ug/ml
Spiked Amount 50.000		Recovery = 54.36%	
Target Compounds			

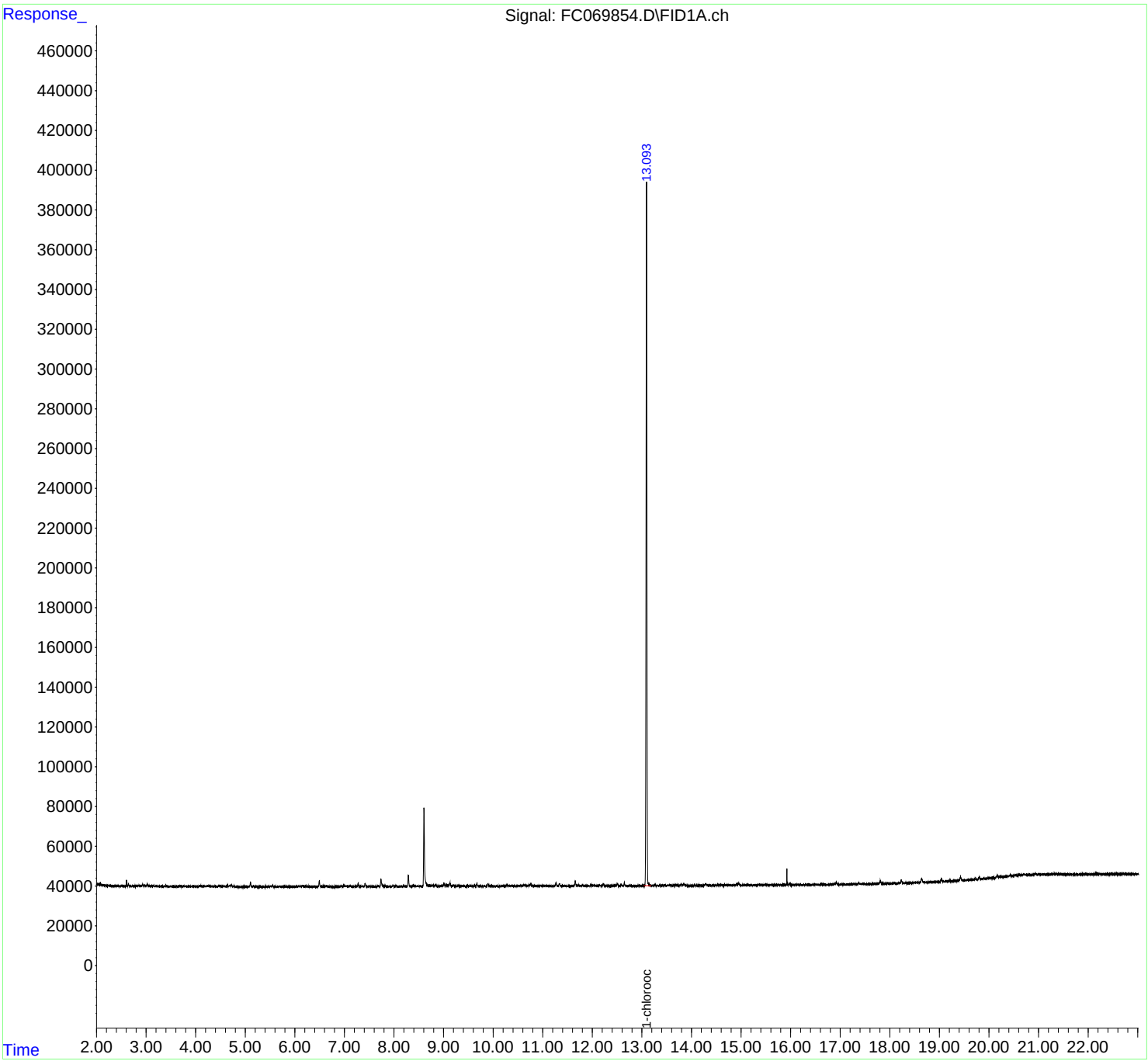
(f)=RT Delta > 1/2 Window (m)=manual int.

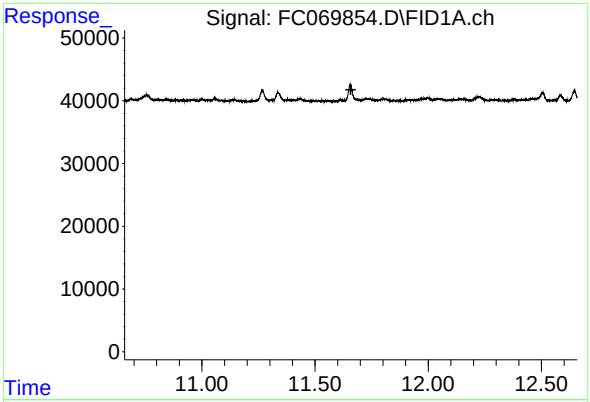
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069854.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:37
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Sep 27 06:07:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

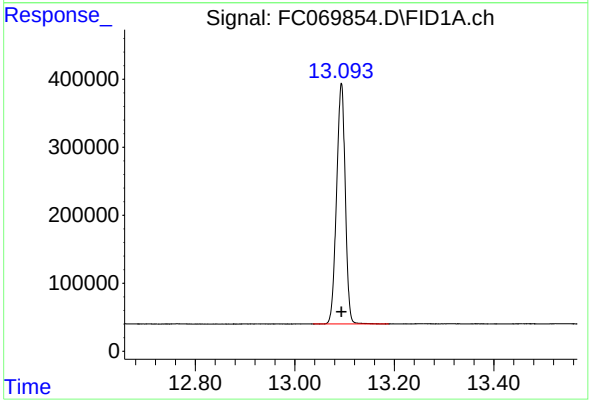




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.658 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB169823BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 4292135
Conc: 27.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069854.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:37
Sample : PB169823BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.094	13.037	13.189	BB	354657	4292135	100.00%	100.000%

Sum of corrected areas: 4292135

Aliphatic EPH 092325.M Sat Sep 27 06:41:33 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 916		Date Received:		
Client Sample ID:	PB169823BL		SDG No.:	Q3176	
Lab Sample ID:	PB169823BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049785.D	1	09/25/25	10/01/25	PB169823

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aromatic C10-C12	Aromatic C10-C12		0.12	U	0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16		0.23	U	0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21		0.40	U	0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36		1.19	U	1.19	2.67	mg/kg
SURROGATES							
580-13-2	2-Bromonaphthalene (SURR)		44.1		40 - 140	88%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)		44.5		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		49.0		40 - 140	98%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169823BL	Acq On:	01 Oct 2025 15:40
Client Sample ID:	PB169823BL	Operator:	YP/AJ
Data file:	FD049785.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	4.388	6.131	0	0	200	ug/ml
Aromatic C12-C16	6.132	8.760	0	0	300	ug/ml
Aromatic C16-C21	8.761	13.050	0	0	500	ug/ml
Aromatic C21-C36	13.051	18.471	0	0	800	ug/ml
Aromatic EPH	4.388	18.471	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.697	7.697	4958684	44.09		ug/ml
2-Flurobiphenyl (SURR)	8.561	8.561	3576173	44.55		ug/ml
ortho-Terphenyl (SURR)	11.610	11.610	6927330	48.96		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049785.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:40
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Oct 02 10:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.697	4958684	44.092 ug/ml
Spiked Amount 50.000		Recovery = 88.18%	
6) S 2-Flurobiphenyl (SURR)	8.561	3576173	44.551 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 89.10%	
11) S ortho-Terphenyl (SURR)	11.610	6927330	48.963 ug/ml
Spiked Amount 50.000		Recovery = 97.93%	
Target Compounds			

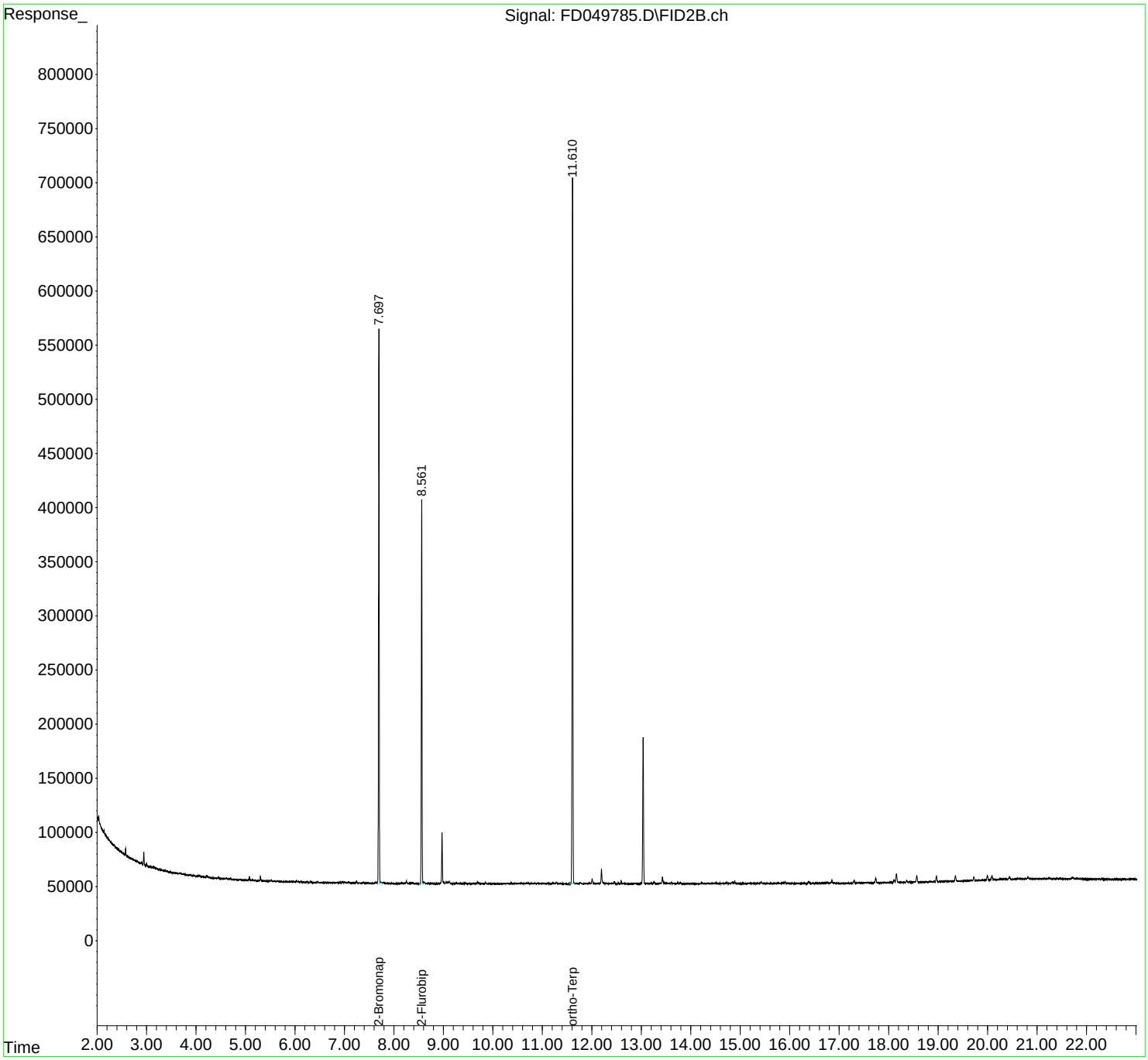
(f)=RT Delta > 1/2 Window (m)=manual int.

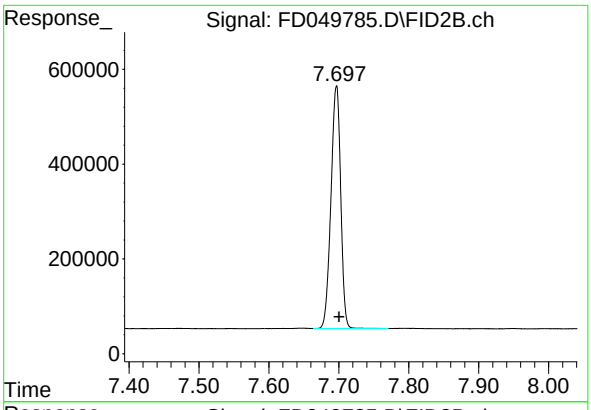
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049785.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:40
Operator : YP/AJ
Sample : PB169823BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BL

Integration File: autoint1.e
Quant Time: Oct 02 10:16:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

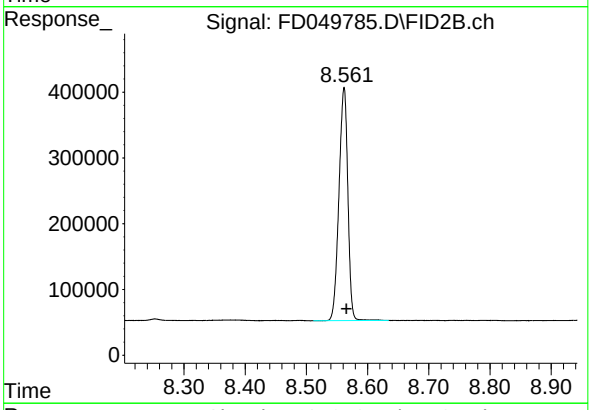




#4 2-Bromonaphthalene (SURR)

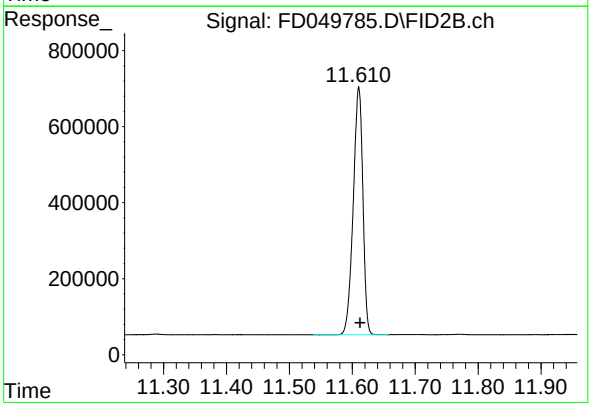
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 4958684
Conc: 44.09 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 3576173
Conc: 44.55 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: -0.002 min
Response: 6927330
Conc: 48.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049785.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 15:40
Sample : PB169823BL
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	7.697	7.663	7.771	VB	517457	4958684	71.58%	32.070%
2	8.561	8.511	8.635	BB	353841	3576173	51.62%	23.129%
3	11.610	11.538	11.658	BB	653716	6927330	100.00%	44.802%
			Sum of corrected areas:			15462188		

Aromatic EPH 090425.M Thu Oct 02 10:22:11 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169823BS	SDG No.:	Q3176
Lab Sample ID:	PB169823BS	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
09/25/25 08:15	09/26/25 13:39	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.20		1	0.14	1.00	mg/kg	FC069855.D
Aliphatic C12-C16	Aliphatic C12-C16	4.49		1	0.11	0.67	mg/kg	FC069855.D
Aliphatic C16-C21	Aliphatic C16-C21	7.34		1	0.13	1.00	mg/kg	FC069855.D
Aliphatic C21-C28	Aliphatic C21-C28	9.80		1	0.53	1.33	mg/kg	FC069855.D
Aliphatic C28-C40	Aliphatic C28-C40	16.1		1	1.18	2.00	mg/kg	FC069855.D
Aromatic C10-C12	Aromatic C10-C12	4.45		1	0.12	0.67	mg/kg	FD049784.D
Aromatic C12-C16	Aromatic C12-C16	7.22		1	0.23	1.00	mg/kg	FD049784.D
Aromatic C16-C21	Aromatic C16-C21	14.6		1	0.40	1.67	mg/kg	FD049784.D
Aromatic C21-C36	Aromatic C21-C36	24.7		1	1.19	2.66	mg/kg	FD049784.D
Total AliphaticEPH	Total AliphaticEPH	42.9			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	51.0			1.94	6.00	mg/kg	
Total EPH	Total EPH	93.9			4.03	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 916	Date Received:	
Client Sample ID:	PB169823BS	SDG No.:	Q3176
Lab Sample ID:	PB169823BS	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
FC069855.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.20		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.49		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.34		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	9.80		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.1		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.1		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169823BS	Acq On:	26 Sep 2025 13:39
Client Sample ID:	PB169823BS	Operator:	YP/AJ
Data file:	FC069855.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	3.300	6.593	10420261	78.041	300	ug/ml
Aliphatic C12-C16	6.594	9.993	10565427	67.436	200	ug/ml
Aliphatic C16-C21	9.994	13.360	19791143	110.227	300	ug/ml
Aliphatic C21-C28	13.361	17.023	26619658	147.117	400	ug/ml
Aliphatic C28-C40	17.024	21.984	31014223	241.024	600	ug/ml
Aliphatic EPH	3.300	21.984	98410712	643.845		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.097	13.097	6171064	39.08		ug/ml
Aliphatic C9-C28	3.300	17.023	67396489	402.821	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069855.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 13:39
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Sep 27 06:08:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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			
12) S	1-chlorooctadecane (S...	13.097	6171064	39.078 ug/ml
Spiked Amount	50.000		Recovery =	78.16%
	Target Compounds			
1) T	n-Nonane (C9)	3.399	2685624	20.950 ug/ml
2) T	n-Decane (C10)	4.471	3447612	25.945 ug/ml
4) T	n-Dodecane (C12)	6.493	4287025	30.732 ug/ml
6) T	n-Tetradecane (C14)	8.291	4950488	33.377 ug/ml
7) T	n-Hexadecane (C16)	9.894	5614939	34.024 ug/ml
8) T	n-Octadecane (C18)	11.338	6279700	35.236 ug/ml
10) T	n-Eicosane (C20)	12.650	6818781	37.859 ug/ml
11) T	n-Heneicosane (C21)	13.261	6692662	37.117 ug/ml
13) T	n-Docosane (C22)	13.849	6754131	37.177 ug/ml
14) T	n-Tetracosane (C24)	14.953	6785655	36.878 ug/ml
15) T	n-Hexacosane (C26)	15.975	6639463	36.569 ug/ml
16) T	n-Octacosane (C28)	16.925	6440409	36.484 ug/ml
17) T	n-Tricontane (C30)	17.814	6318850	36.101 ug/ml
18) T	n-Dotriacontane (C32)	18.647	5974634	36.930 ug/ml
19) T	n-Tetratriacontane (C34)	19.431	5577215	39.908 ug/ml
20) T	n-Hexatriacontane (C36)	20.171	4897996	43.384 ug/ml
21) T	n-Octatriacontane (C38)	20.933	4381476	45.420 ug/ml
22) T	n-Tetracontane (C40)	21.891	3864052	44.864 ug/ml

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

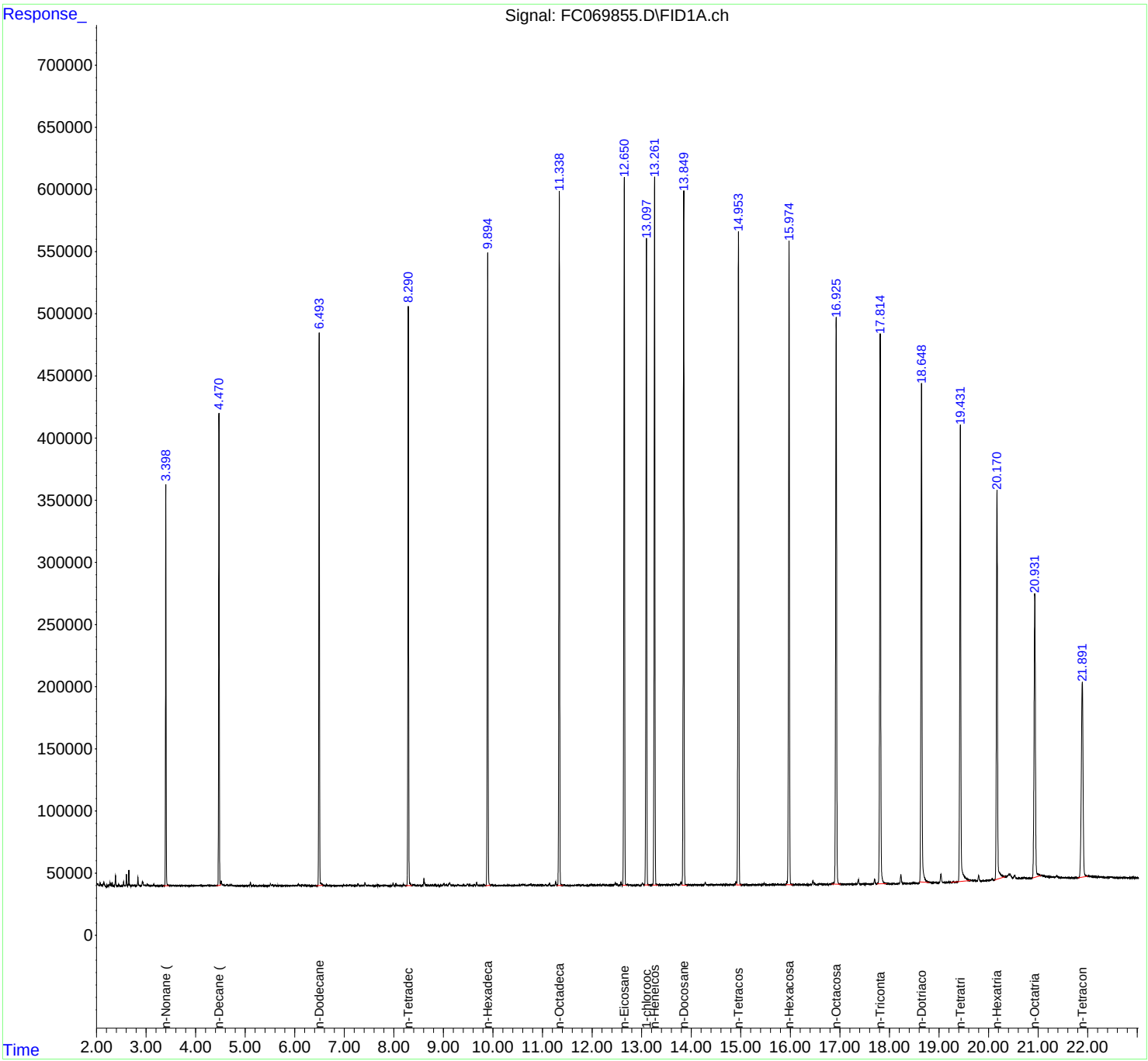
Quantitation Report (QT Reviewed)

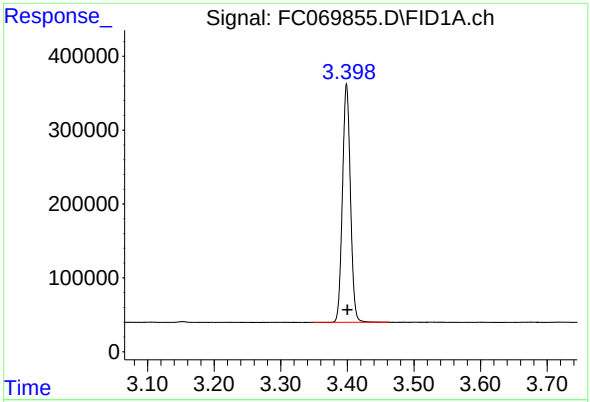
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069855.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 13:39
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Sep 27 06:08:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

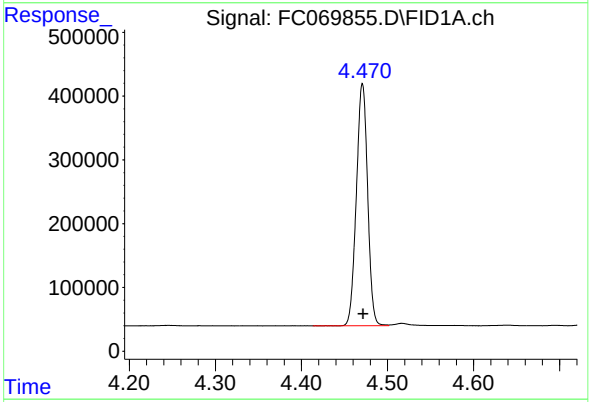




#1 n-Nonane (C9)

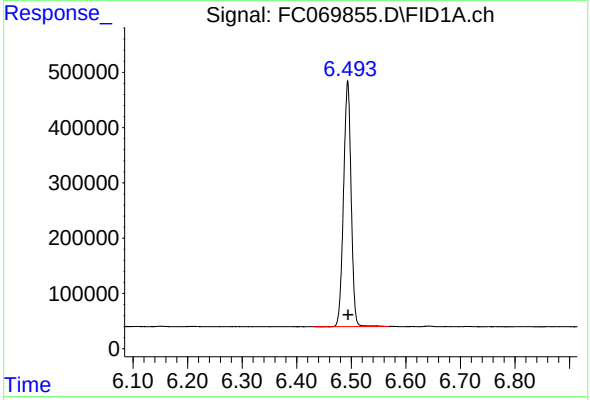
R.T.: 3.399 min
Delta R.T.: -0.001 min
Response: 2685624
Conc: 20.95 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BS



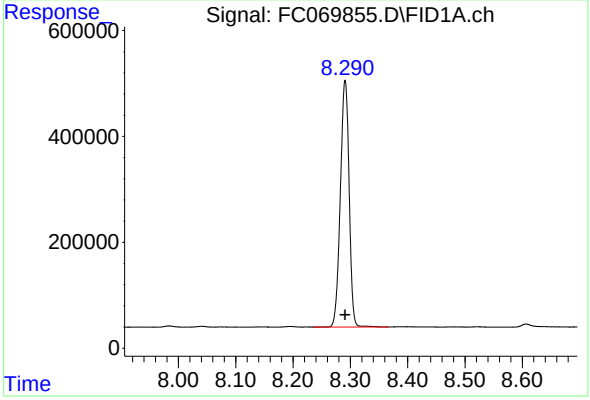
#2 n-Decane (C10)

R.T.: 4.471 min
Delta R.T.: 0.000 min
Response: 3447612
Conc: 25.95 ug/ml



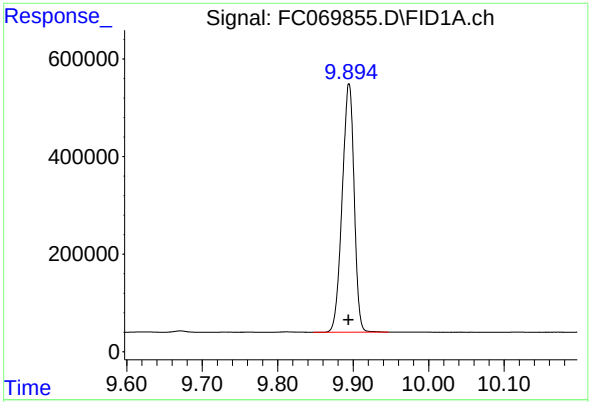
#4 n-Dodecane (C12)

R.T.: 6.493 min
Delta R.T.: 0.000 min
Response: 4287025
Conc: 30.73 ug/ml



#6 n-Tetradecane (C14)

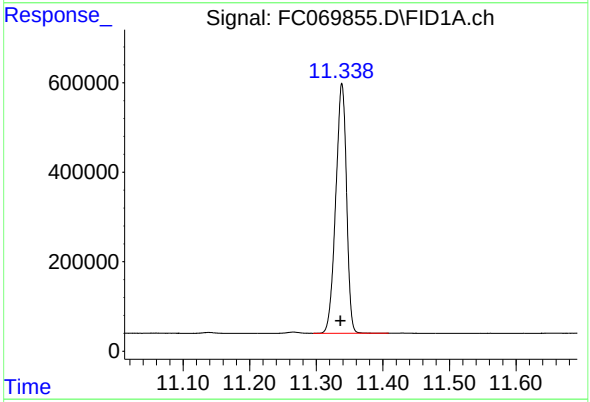
R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 4950488
Conc: 33.38 ug/ml



#7 n-Hexadecane (C16)

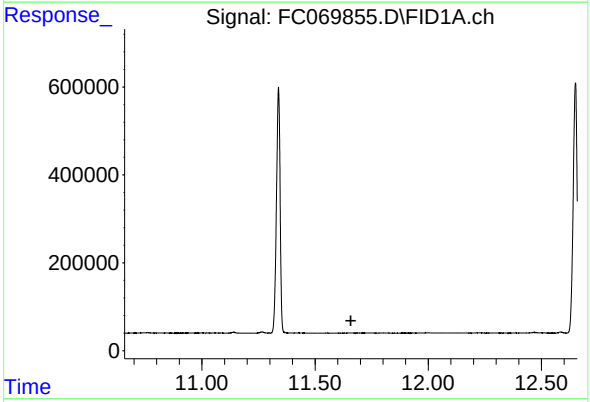
R.T.: 9.894 min
Delta R.T.: 0.000 min
Response: 5614939
Conc: 34.02 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BS



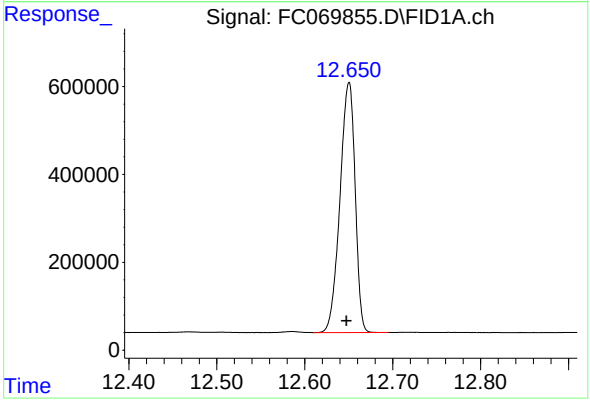
#8 n-Octadecane (C18)

R.T.: 11.338 min
Delta R.T.: 0.002 min
Response: 6279700
Conc: 35.24 ug/ml



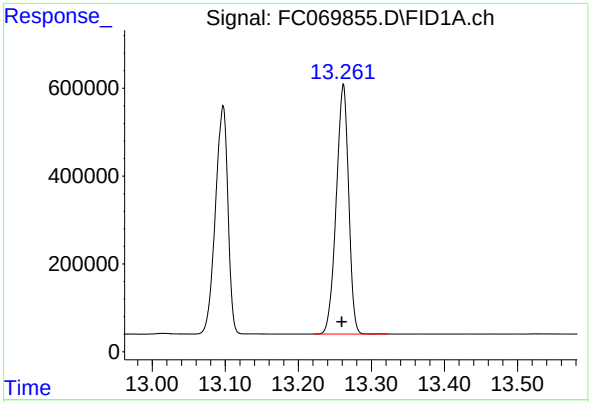
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.658 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

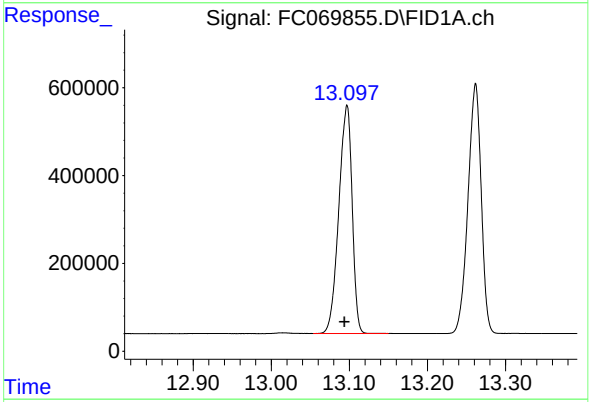
R.T.: 12.650 min
Delta R.T.: 0.003 min
Response: 6818781
Conc: 37.86 ug/ml



#11 n-Heneicosane (C21)

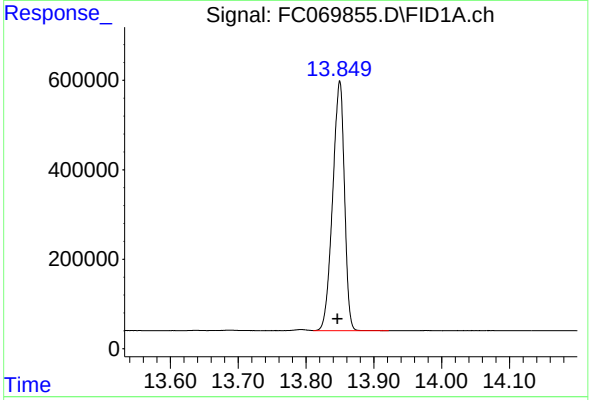
R.T.: 13.261 min
Delta R.T.: 0.002 min
Response: 6692662
Conc: 37.12 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BS



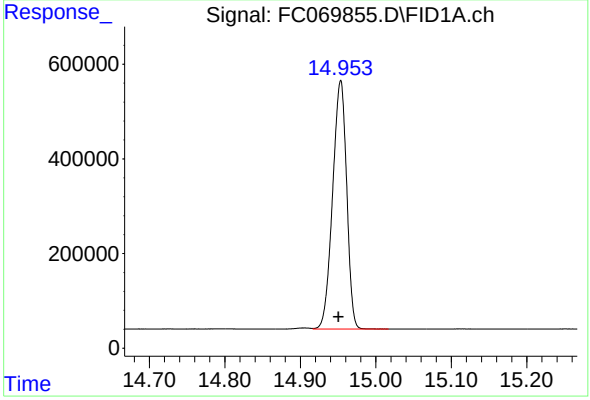
#12 1-chlorooctadecane (SURR)

R.T.: 13.097 min
Delta R.T.: 0.003 min
Response: 6171064
Conc: 39.08 ug/ml



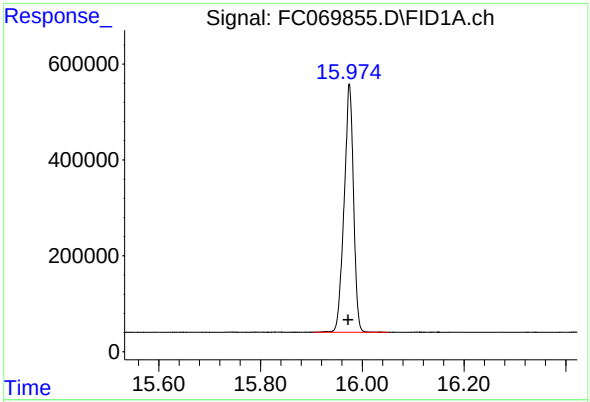
#13 n-Docosane (C22)

R.T.: 13.849 min
Delta R.T.: 0.003 min
Response: 6754131
Conc: 37.18 ug/ml



#14 n-Tetracosane (C24)

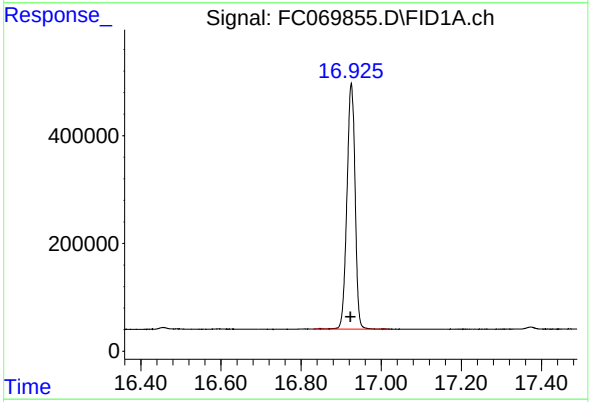
R.T.: 14.953 min
Delta R.T.: 0.003 min
Response: 6785655
Conc: 36.88 ug/ml



#15 n-Hexacosane (C26)

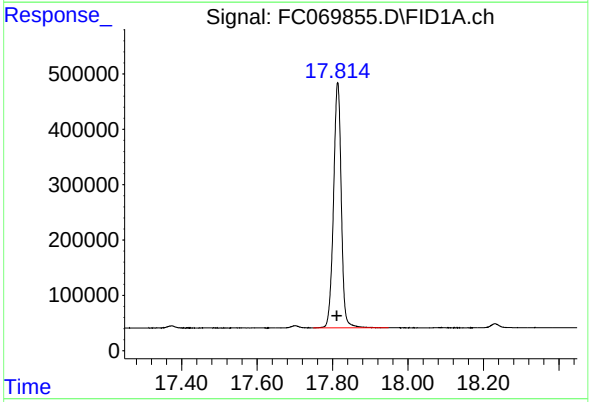
R.T.: 15.975 min
Delta R.T.: 0.002 min
Response: 6639463
Conc: 36.57 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BS



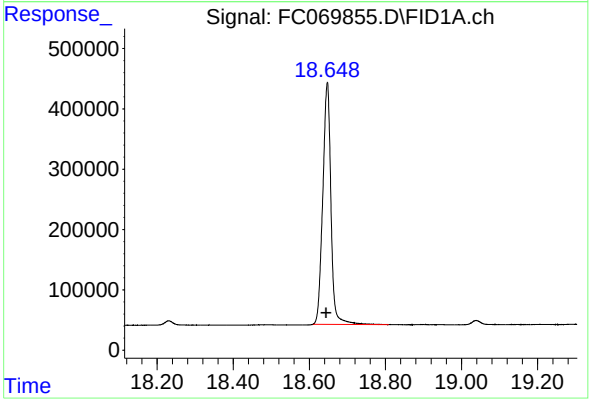
#16 n-Octacosane (C28)

R.T.: 16.925 min
Delta R.T.: 0.003 min
Response: 6440409
Conc: 36.48 ug/ml



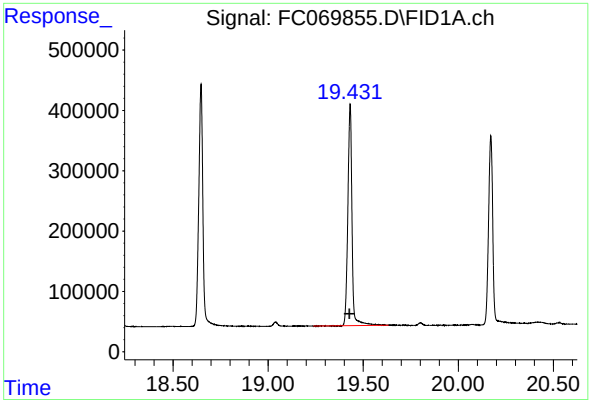
#17 n-Tricontane (C30)

R.T.: 17.814 min
Delta R.T.: 0.003 min
Response: 6318850
Conc: 36.10 ug/ml



#18 n-Dotriacontane (C32)

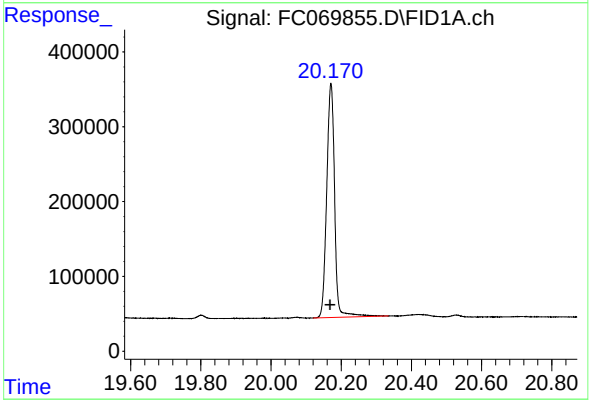
R.T.: 18.647 min
Delta R.T.: 0.003 min
Response: 5974634
Conc: 36.93 ug/ml



#19 n-Tetratriacontane (C34)

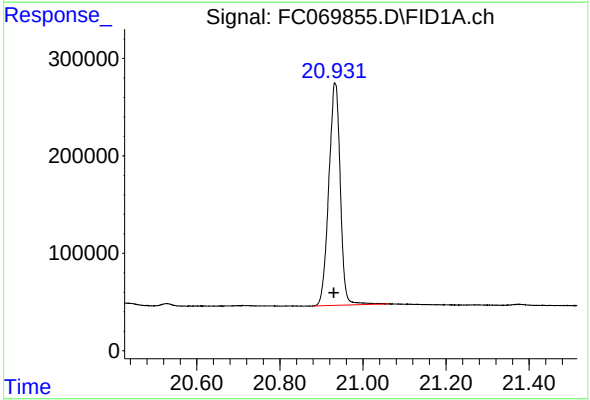
R.T.: 19.431 min
Delta R.T.: 0.003 min
Response: 5577215
Conc: 39.91 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BS



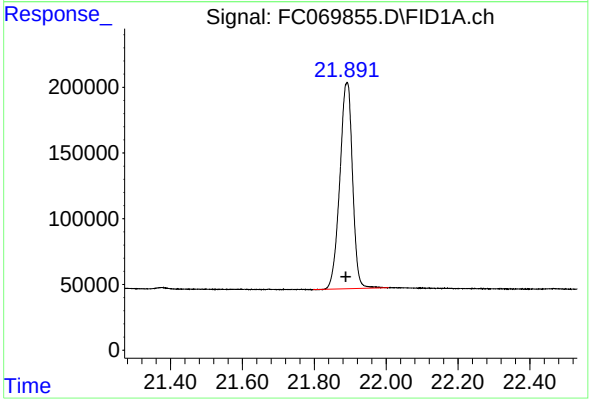
#20 n-Hexatriacontane (C36)

R.T.: 20.171 min
Delta R.T.: 0.002 min
Response: 4897996
Conc: 43.38 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.933 min
Delta R.T.: 0.003 min
Response: 4381476
Conc: 45.42 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.891 min
Delta R.T.: 0.003 min
Response: 3864052
Conc: 44.86 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069855.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 13:39
Sample : PB169823BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.399	3.349	3.462	BB	322297	2685624	39.39%	2.568%
2	4.471	4.414	4.501	BV	379810	3447612	50.56%	3.297%
3	6.493	6.430	6.569	BB	445265	4287025	62.87%	4.099%
4	8.291	8.235	8.367	BV	466297	4950488	72.60%	4.734%
5	9.894	9.847	9.947	BB	510899	5614939	82.35%	5.369%
6	11.338	11.295	11.409	VB	558739	6279700	92.09%	6.005%
7	12.650	12.609	12.695	PV	570183	6818781	100.00%	6.520%
8	13.097	13.054	13.150	BB	521526	6171064	90.50%	5.901%
9	13.261	13.220	13.324	BB	571556	6692662	98.15%	6.399%
10	13.849	13.811	13.922	VB	556558	6754131	99.05%	6.458%
11	14.953	14.917	15.017	VB	526391	6785655	99.51%	6.488%
12	15.975	15.904	16.052	BB	515348	6639463	97.37%	6.349%
13	16.925	16.830	17.019	BB	455237	6440409	94.45%	6.158%
14	17.814	17.749	17.949	BB	442954	6318850	92.67%	6.042%
15	18.647	18.610	18.809	BB	400722	5974634	87.62%	5.713%
16	19.431	19.237	19.634	BB	368958	5577215	81.79%	5.333%
17	20.171	20.120	20.335	BB	312694	4897996	71.83%	4.683%
18	20.933	20.880	21.062	BB	227385	4381476	64.26%	4.190%
19	21.891	21.797	22.007	BB	157161	3864052	56.67%	3.695%
			Sum of corrected areas:			104581776		

Aliphatic EPH 092325.M Sat Sep 27 06:44:16 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 916		Date Received:		
Client Sample ID:	PB169823BS		SDG No.:	Q3176	
Lab Sample ID:	PB169823BS		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
FD049784.D	1	09/25/25	10/01/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.45		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.22		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	14.6		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	24.7		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	38.3		40 - 140	77%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	43.0		40 - 140	86%	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:	PB169823BS	Acq On:	01 Oct 2025 14:56
Client Sample ID:	PB169823BS	Operator:	YP/AJ
Data file:	FD049784.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	4.388	6.131	7761215	66.875	200	ug/ml
Aromatic C12-C16	6.132	8.760	14719838	108.341	300	ug/ml
Aromatic C16-C21	8.761	13.050	29780380	219.343	500	ug/ml
Aromatic C21-C36	13.051	18.471	43848673	370.588	800	ug/ml
Aromatic EPH	4.388	18.471	96110106	765.147		ug/ml
2-Flurobiphenyl (SURR)	8.561	8.561	3064968	38.18		ug/ml
ortho-Terphenyl (SURR)	11.610	11.610	6084058	43		ug/ml
2-Bromonaphthalene (SURR)	7.697	7.697	4307044	38.3		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049784.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 14:56
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Oct 02 10:15:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.697	4307044	38.297 ug/ml
Spiked Amount 50.000		Recovery =	76.59%
6) S 2-Flurobiphenyl (SURR)	8.561	3064968	38.183 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	76.37%
11) S ortho-Terphenyl (SURR)	11.610	6084058	43.003 ug/ml
Spiked Amount 50.000		Recovery =	86.01%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.488	3475813	32.257 ug/ml
2) T Naphthalene (C11.7)	6.031	4285402	34.460 ug/ml
3) T 2-Methylnaphthalene (...	7.085	4278724	32.829 ug/ml
5) T Acenaphthylene (C15.06)	8.365	5189790	37.433 ug/ml
7) T Acenaphthene (C15.5)	8.662	5251324	37.882 ug/ml
8) T Flouorene (C16.55)	9.444	5651413	40.742 ug/ml
9) T Phenanthrene (C19.36)	10.843	6015809	43.185 ug/ml
10) T Anthracene (C19.43)	10.918	5713315	43.269 ug/ml
12) T Fluoranthene (C21.85)	12.658	6182701	45.910 ug/ml
13) T Pyrene (C20.8)	12.957	6217142	46.737 ug/ml
14) T Benzo[a]anthracene (C...	14.829	5733767	47.947 ug/ml
15) T Chrysene (C27.41)	14.874	6265826	51.506 ug/ml
16) T benzo[b]fluoranthene ...	16.380	5536280	46.186 ug/ml
17) T Bnezo[k]fluoranthene ...	16.416	5479463	48.631 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.760	5314809	45.292 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.128	5503413	50.587 ug/ml
20) T Dibenz[a,h]anthracene...	18.166	5113486	44.875 ug/ml
21) T Benzo[g,h,i]perylene ...	18.383	4901629	42.126 ug/ml

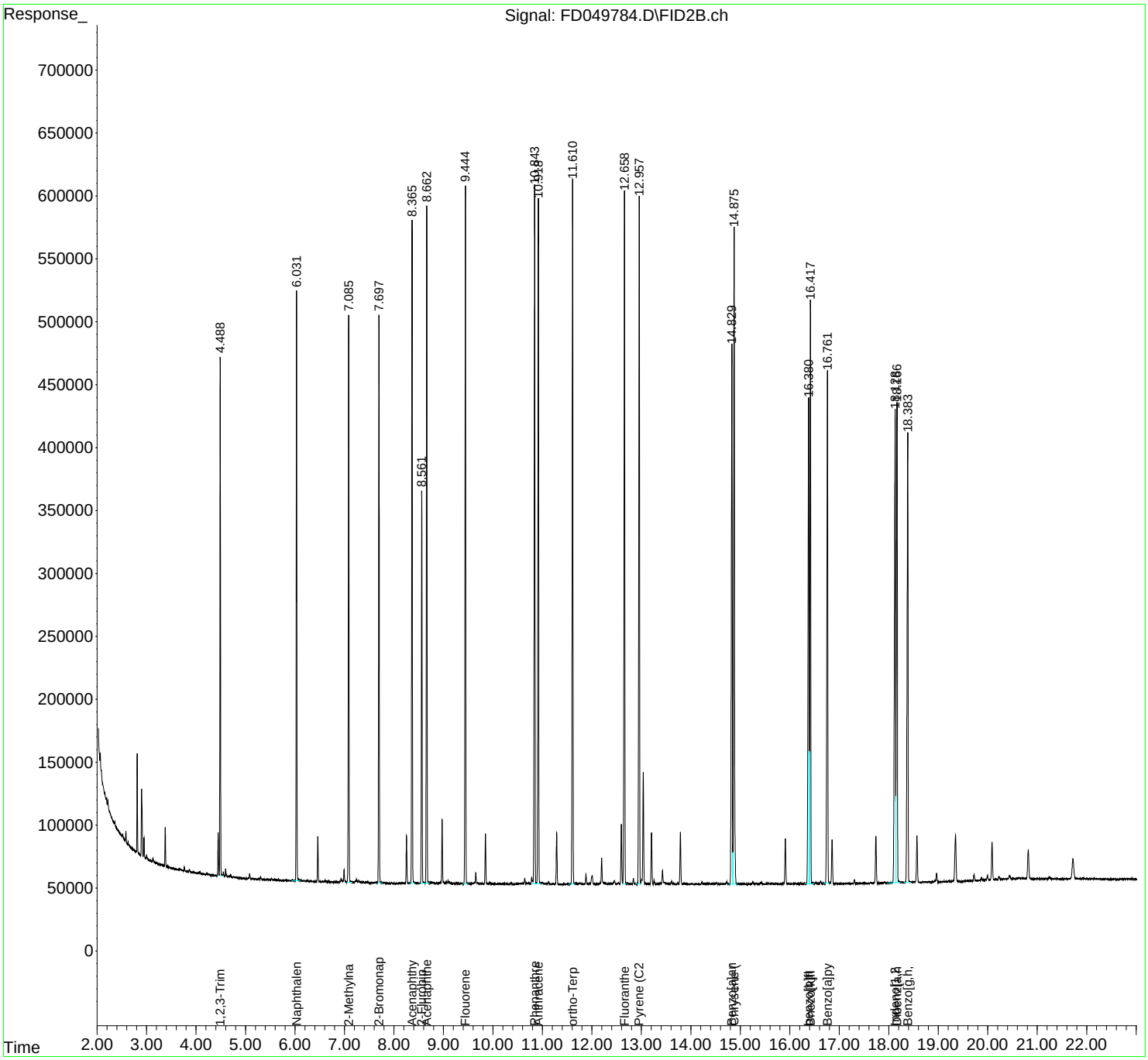
(f)=RT Delta > 1/2 Window (m)=manual int.

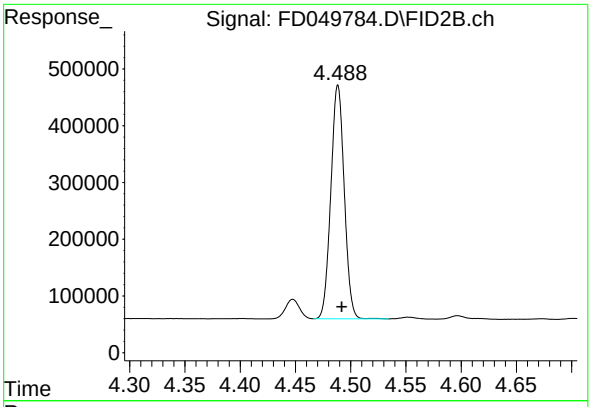
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049784.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 14:56
Operator : YP/AJ
Sample : PB169823BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BS

Integration File: autoint1.e
Quant Time: Oct 02 10:15:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

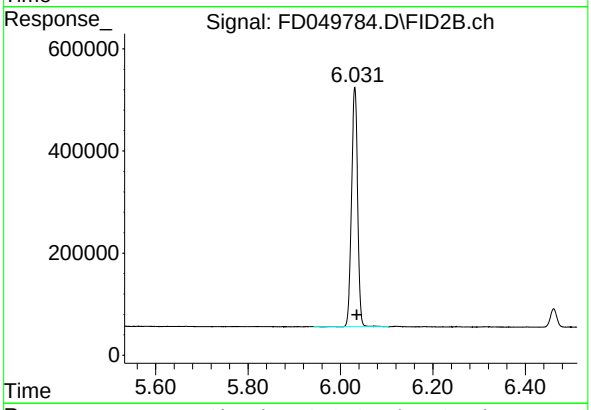




#1 1,2,3-Trimethylbenzene (C10.1)

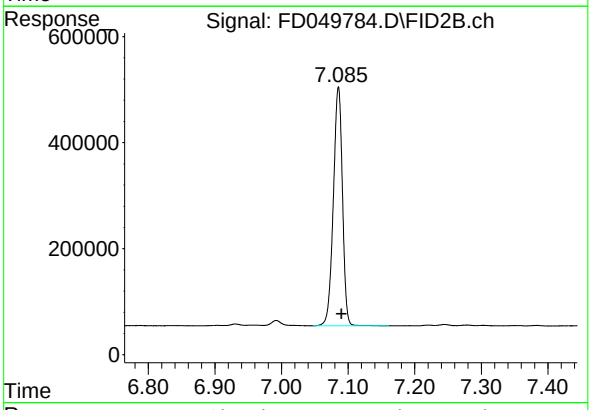
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 3475813
Conc: 32.26 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BS



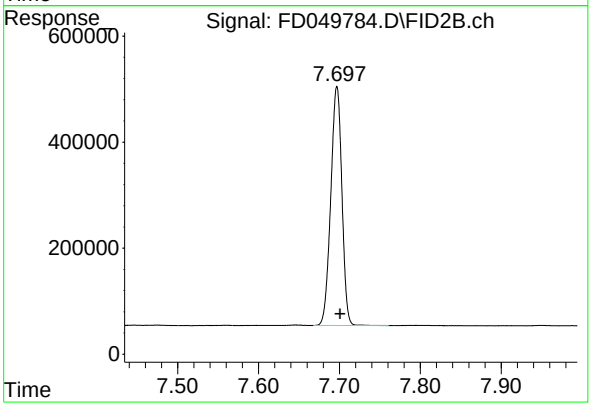
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: -0.004 min
Response: 4285402
Conc: 34.46 ug/ml



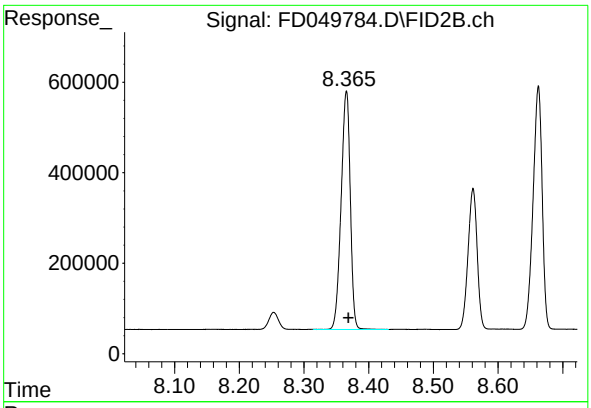
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.085 min
Delta R.T.: -0.004 min
Response: 4278724
Conc: 32.83 ug/ml



#4 2-Bromonaphthalene (SURR)

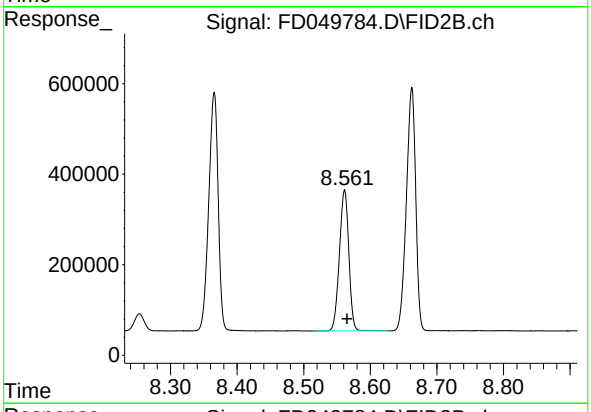
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 4307044
Conc: 38.30 ug/ml



#5 Acenaphthylene (C15.06)

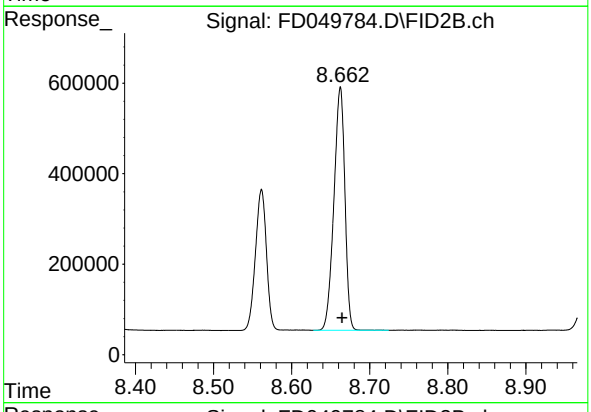
R.T.: 8.365 min
Delta R.T.: -0.003 min
Response: 5189790
Conc: 37.43 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BS



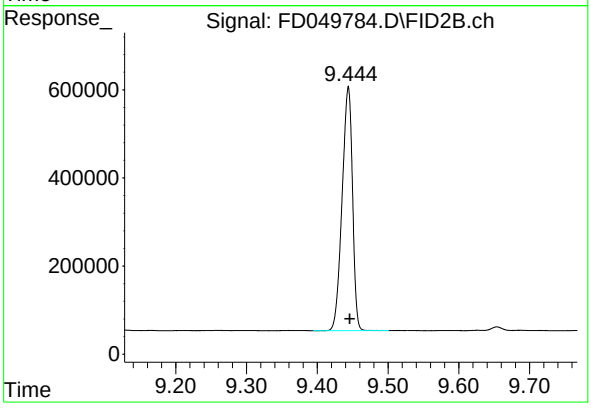
#6 2-Flurobiphenyl (SURR)

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 3064968
Conc: 38.18 ug/ml



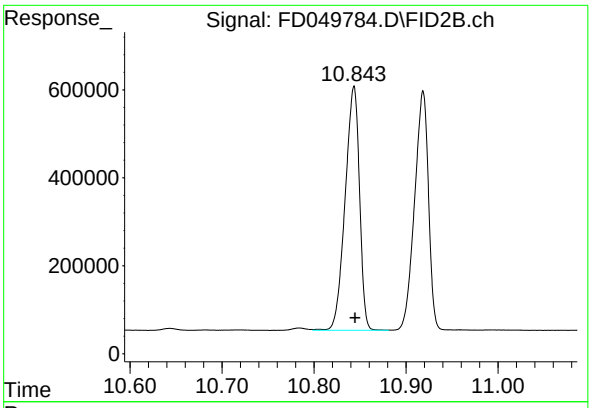
#7 Acenaphthene (C15.5)

R.T.: 8.662 min
Delta R.T.: -0.002 min
Response: 5251324
Conc: 37.88 ug/ml



#8 Flouorene (C16.55)

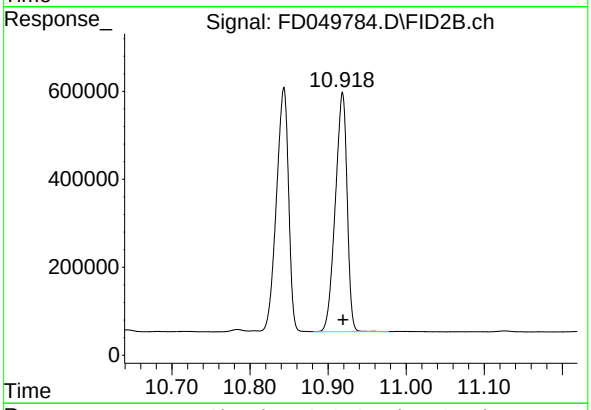
R.T.: 9.444 min
Delta R.T.: -0.002 min
Response: 5651413
Conc: 40.74 ug/ml



#9 Phenanthrene (C19.36)

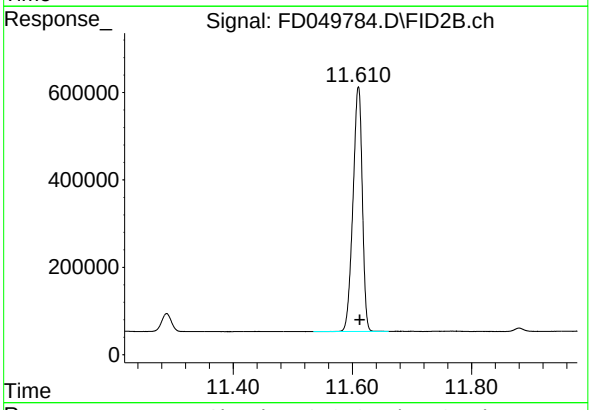
R.T.: 10.843 min
Delta R.T.: -0.002 min
Response: 6015809
Conc: 43.18 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BS



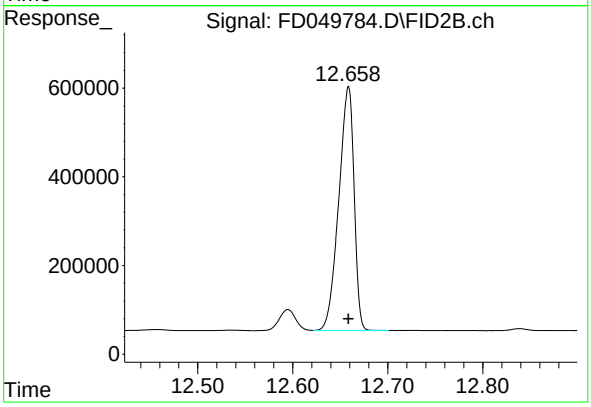
#10 Anthracene (C19.43)

R.T.: 10.918 min
Delta R.T.: -0.001 min
Response: 5713315
Conc: 43.27 ug/ml



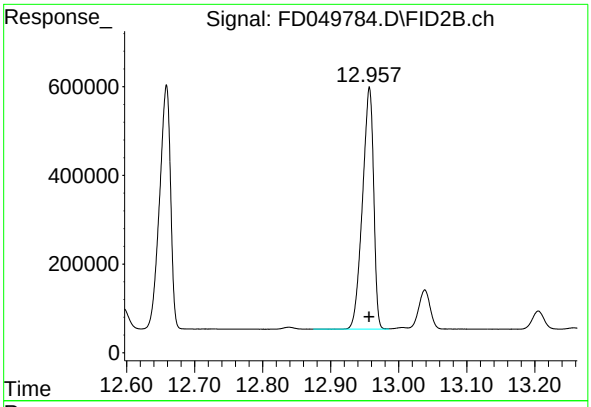
#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: -0.002 min
Response: 6084058
Conc: 43.00 ug/ml



#12 Fluoranthene (C21.85)

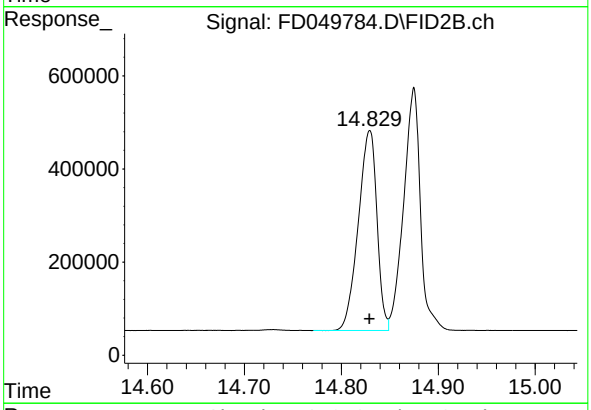
R.T.: 12.658 min
Delta R.T.: 0.000 min
Response: 6182701
Conc: 45.91 ug/ml



#13 Pyrene (C20.8)

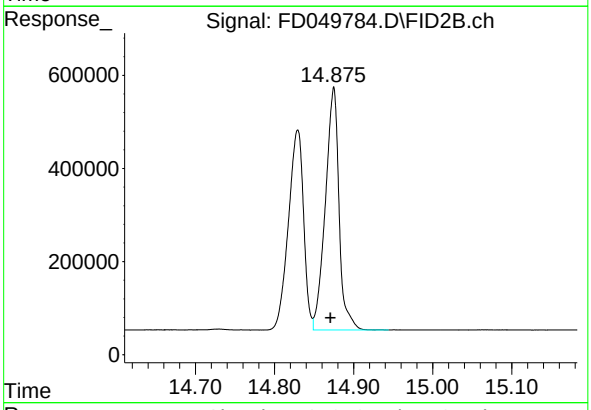
R.T.: 12.957 min
Delta R.T.: 0.000 min
Response: 6217142
Conc: 46.74 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BS



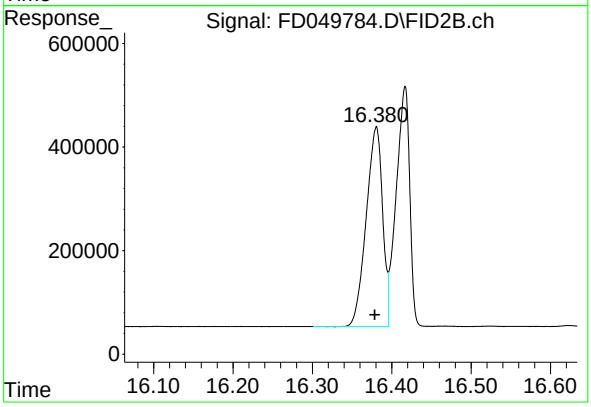
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.829 min
Delta R.T.: 0.000 min
Response: 5733767
Conc: 47.95 ug/ml



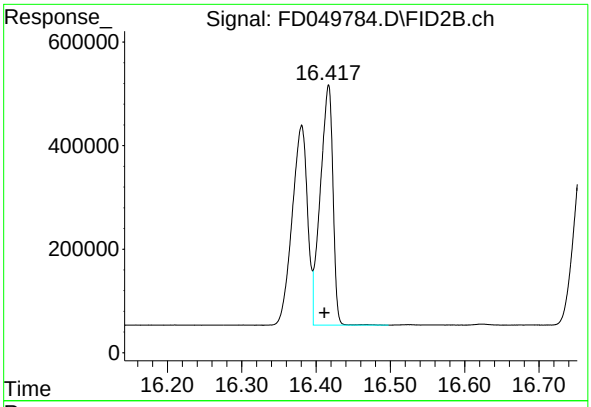
#15 Chrysene (C27.41)

R.T.: 14.874 min
Delta R.T.: 0.004 min
Response: 6265826
Conc: 51.51 ug/ml



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

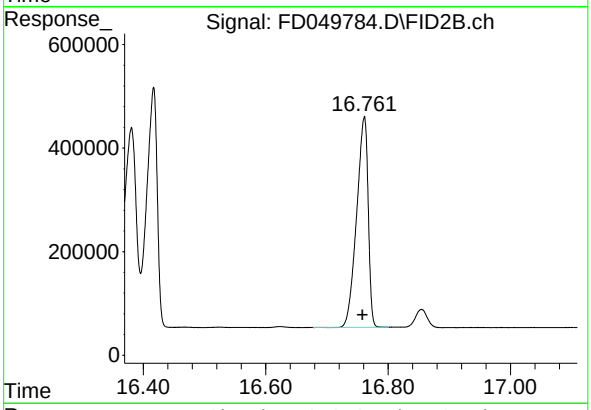
R.T.: 16.380 min
Delta R.T.: 0.001 min
Response: 5536280
Conc: 46.19 ug/ml



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

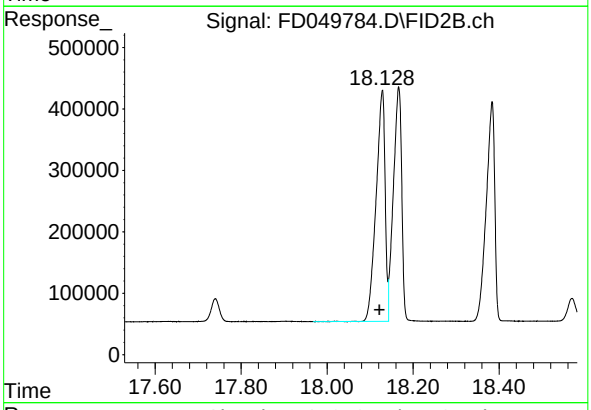
R.T.: 16.416 min
Delta R.T.: 0.005 min
Response: 5479463
Conc: 48.63 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BS



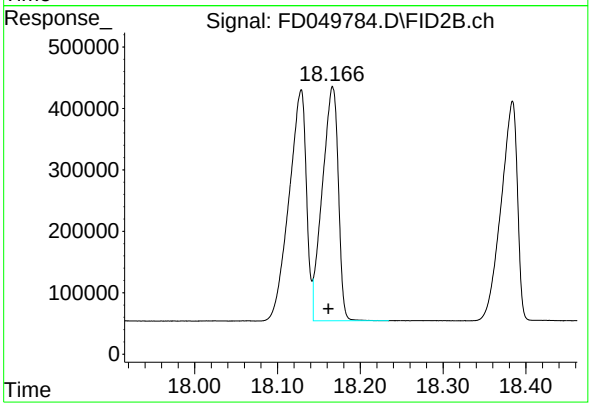
#18 Benzo[a]pyrepyrene (C31.34)

R.T.: 16.760 min
Delta R.T.: 0.003 min
Response: 5314809
Conc: 45.29 ug/ml



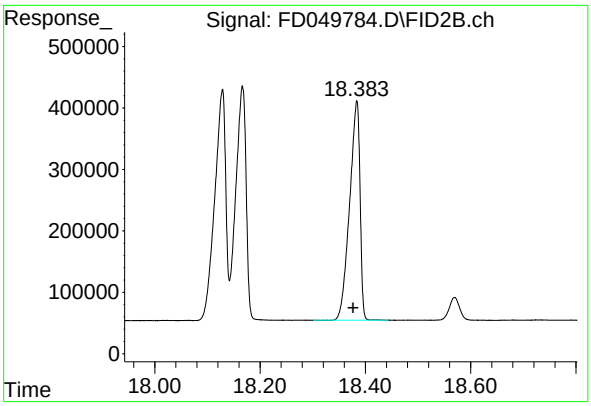
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.128 min
Delta R.T.: 0.006 min
Response: 5503413
Conc: 50.59 ug/ml



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

R.T.: 18.166 min
Delta R.T.: 0.005 min
Response: 5113486
Conc: 44.88 ug/ml



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

R.T.:	18.383 min
Delta R.T.:	0.007 min
Response:	4901629
Conc:	42.13 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BS

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049784.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 14:56
Sample : PB169823BS
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.488	4.466	4.534	VV	410848	3475813	55.47%	3.172%
2	6.031	5.941	6.104	BB	469885	4285402	68.39%	3.911%
3	7.085	7.048	7.161	PB	448104	4278724	68.29%	3.905%
4	7.697	7.668	7.761	PB	452773	4307044	68.74%	3.931%
5	8.365	8.314	8.431	BB	523248	5189790	82.83%	4.737%
6	8.561	8.514	8.628	BB	310749	3064968	48.92%	2.797%
7	8.662	8.628	8.724	BB	531167	5251324	83.81%	4.793%
8	9.444	9.394	9.501	BB	556251	5651413	90.19%	5.158%
9	10.843	10.799	10.881	VV	561054	6015809	96.01%	5.491%
10	10.918	10.881	10.978	VV	540647	5713315	91.18%	5.214%
11	11.610	11.534	11.661	BB	564852	6084058	97.10%	5.553%
12	12.658	12.622	12.701	VB	547078	6182701	98.67%	5.643%
13	12.957	12.874	12.985	BV	549737	6217142	99.22%	5.674%
14	14.829	14.771	14.849	BV	428494	5733767	91.51%	5.233%
15	14.874	14.849	14.944	VB	518337	6265826	100.00%	5.719%
16	16.380	16.301	16.396	BV	387259	5536280	88.36%	5.053%
17	16.416	16.396	16.498	VB	472566	5479463	87.45%	5.001%
18	16.760	16.678	16.801	BB	408073	5314809	84.82%	4.851%
19	18.128	17.968	18.143	BV	374353	5503413	87.83%	5.023%
20	18.166	18.143	18.234	VB	384953	5113486	81.61%	4.667%
21	18.383	18.301	18.444	BB	362531	4901629	78.23%	4.474%

Sum of corrected areas: 109566175

Aromatic EPH 090425.M Thu Oct 02 10:21:10 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 916	Date Received:	
Client Sample ID:	PB169823BSD	SDG No.:	Q3176
Lab Sample ID:	PB169823BSD	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
09/25/25 08:15	09/26/25 14:25	PB169823

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.08		1	0.14	1.00	mg/kg	FC069856.D
Aliphatic C12-C16	Aliphatic C12-C16	4.42		1	0.11	0.67	mg/kg	FC069856.D
Aliphatic C16-C21	Aliphatic C16-C21	7.44		1	0.13	1.00	mg/kg	FC069856.D
Aliphatic C21-C28	Aliphatic C21-C28	10.2		1	0.53	1.33	mg/kg	FC069856.D
Aliphatic C28-C40	Aliphatic C28-C40	16.7		1	1.18	2.00	mg/kg	FC069856.D
Aromatic C10-C12	Aromatic C10-C12	4.55		1	0.12	0.67	mg/kg	FD049786.D
Aromatic C12-C16	Aromatic C12-C16	7.39		1	0.23	1.00	mg/kg	FD049786.D
Aromatic C16-C21	Aromatic C16-C21	15.1		1	0.40	1.67	mg/kg	FD049786.D
Aromatic C21-C36	Aromatic C21-C36	25.4		1	1.19	2.66	mg/kg	FD049786.D
Total AliphaticEPH	Total AliphaticEPH	43.8			2.09	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	52.4			1.94	6.00	mg/kg	
Total EPH	Total EPH	96.3			4.03	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 916	Date Received:	
Client Sample ID:	PB169823BSD	SDG No.:	Q3176
Lab Sample ID:	PB169823BSD	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
FC069856.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.08		0.14	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.42		0.11	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.44		0.13	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.2		0.53	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.7		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.9		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169823BSD	Acq On:	26 Sep 2025 14:25
Client Sample ID:	PB169823BSD	Operator:	YP/AJ
Data file:	FC069856.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	3.300	6.593	10184115	76.272	300	ug/ml
Aliphatic C12-C16	6.594	9.993	10403804	66.404	200	ug/ml
Aliphatic C16-C21	9.994	13.360	20042927	111.629	300	ug/ml
Aliphatic C21-C28	13.361	17.023	27684873	153.004	400	ug/ml
Aliphatic C28-C40	17.024	21.984	32219733	250.392	600	ug/ml
Aliphatic EPH	3.300	21.984	100535452	657.703		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.096	13.096	6307554	39.94		ug/ml
Aliphatic C9-C28	3.300	17.023	68315719	407.309	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069856.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 14:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Sep 27 06:08:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 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			
12) S	1-chlorooctadecane (S...	13.096	6307554	39.942 ug/ml
Spiked Amount	50.000		Recovery =	79.88%
	Target Compounds			
1) T	n-Nonane (C9)	3.399	2649593	20.669 ug/ml
2) T	n-Decane (C10)	4.471	3372741	25.382 ug/ml
4) T	n-Dodecane (C12)	6.493	4161781	29.834 ug/ml
6) T	n-Tetradecane (C14)	8.291	4844892	32.665 ug/ml
7) T	n-Hexadecane (C16)	9.895	5558912	33.685 ug/ml
8) T	n-Octadecane (C18)	11.339	6295117	35.322 ug/ml
10) T	n-Eicosane (C20)	12.650	6917461	38.406 ug/ml
11) T	n-Heneicosane (C21)	13.262	6830349	37.880 ug/ml
13) T	n-Docosane (C22)	13.850	6936672	38.182 ug/ml
14) T	n-Tetracosane (C24)	14.954	7049461	38.312 ug/ml
15) T	n-Hexacosane (C26)	15.976	6945673	38.255 ug/ml
16) T	n-Octacosane (C28)	16.927	6753067	38.255 ug/ml
17) T	n-Tricontane (C30)	17.815	6625537	37.854 ug/ml
18) T	n-Dotriacontane (C32)	18.648	6268333	38.745 ug/ml
19) T	n-Tetratriacontane (C34)	19.431	5827356	41.698 ug/ml
20) T	n-Hexatriacontane (C36)	20.172	5068778	44.896 ug/ml
21) T	n-Octatriacontane (C38)	20.933	4508780	46.739 ug/ml
22) T	n-Tetracontane (C40)	21.892	3920949	45.525 ug/ml

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

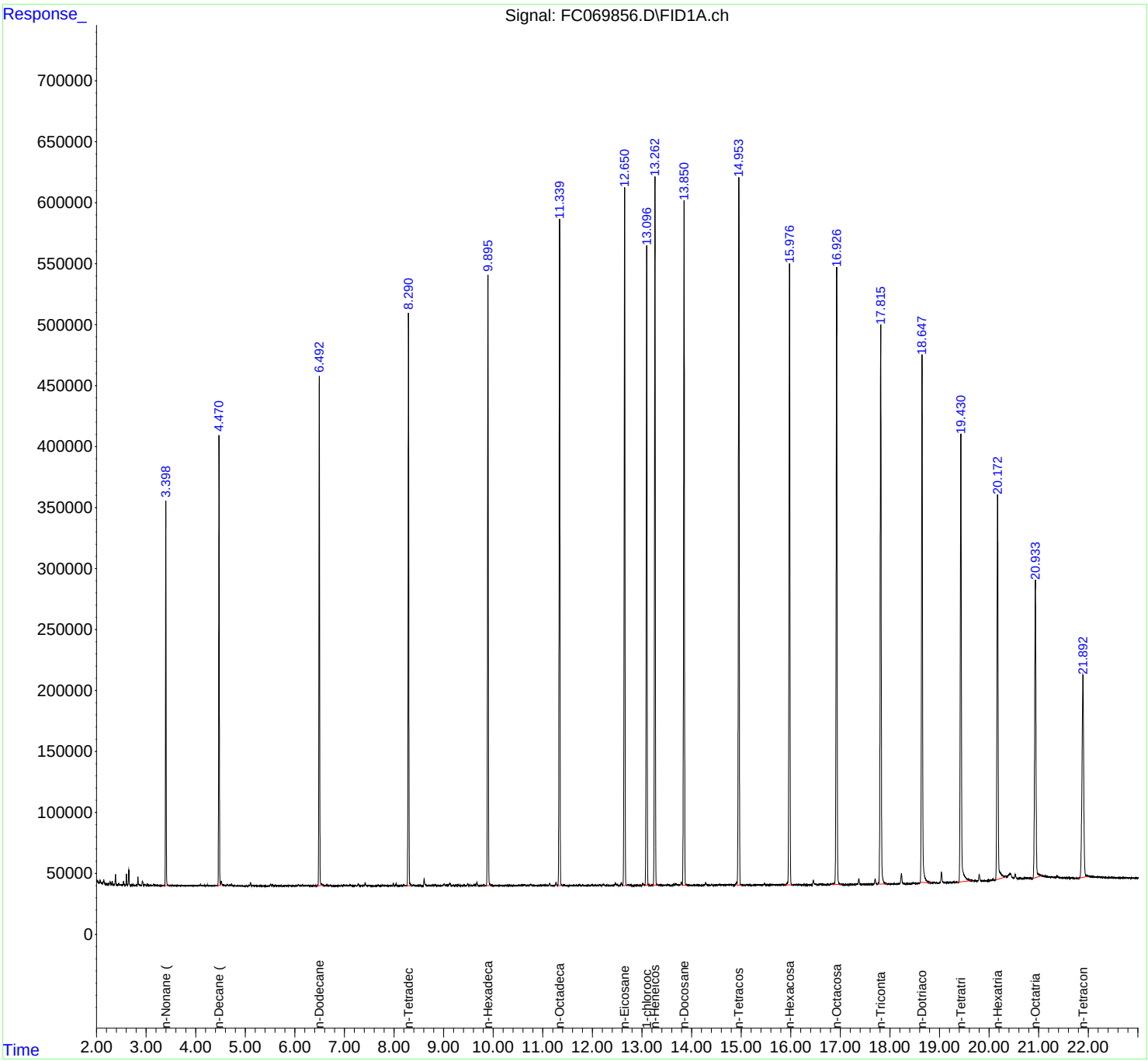
Quantitation Report (QT Reviewed)

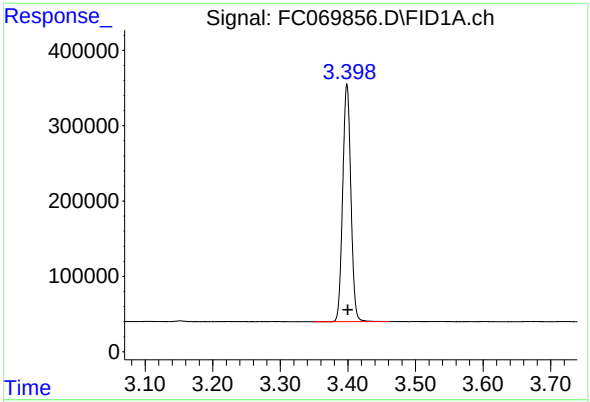
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069856.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 14:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Sep 27 06:08:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.M
Quant Title : GC Extractables
QLast Update : Tue Sep 23 14:56:40 2025
Response via : Initial Calibration
Integrator: ChemStation

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

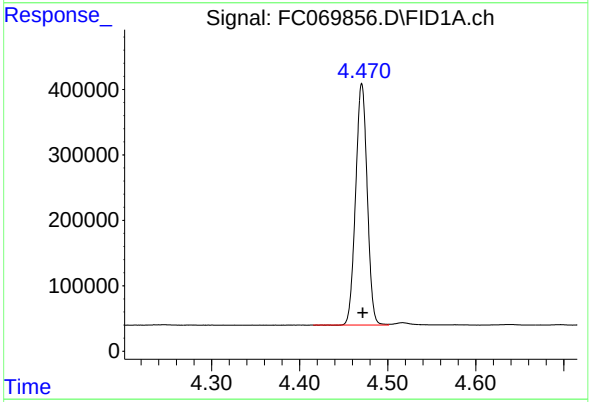




#1 n-Nonane (C9)

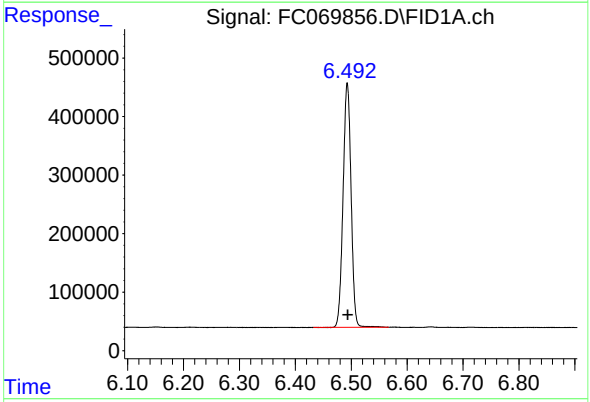
R.T.: 3.399 min
Delta R.T.: -0.001 min
Response: 2649593
Conc: 20.67 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BSD



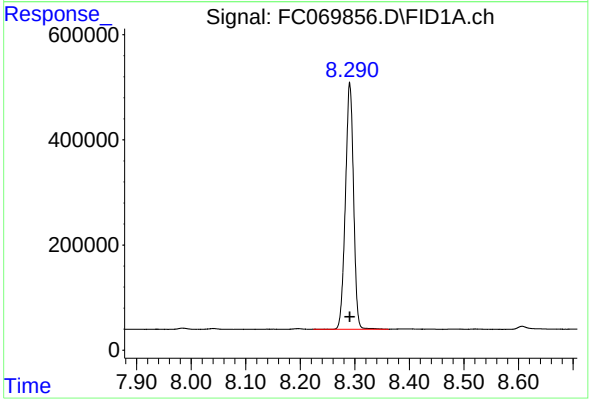
#2 n-Decane (C10)

R.T.: 4.471 min
Delta R.T.: -0.001 min
Response: 3372741
Conc: 25.38 ug/ml



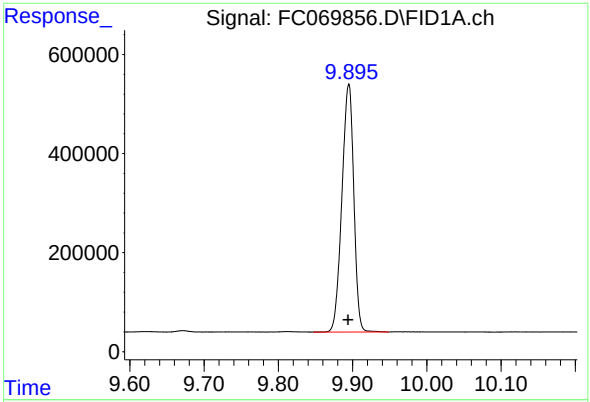
#4 n-Dodecane (C12)

R.T.: 6.493 min
Delta R.T.: 0.000 min
Response: 4161781
Conc: 29.83 ug/ml



#6 n-Tetradecane (C14)

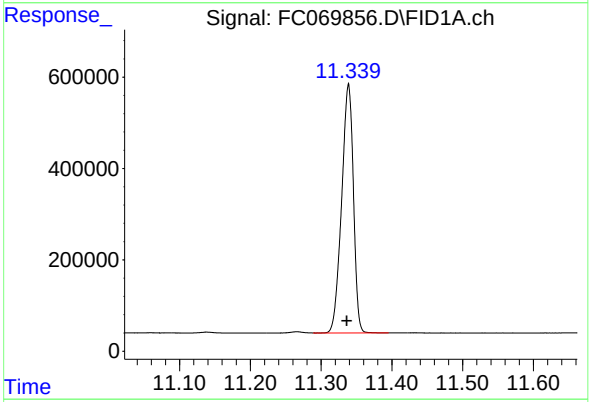
R.T.: 8.291 min
Delta R.T.: 0.000 min
Response: 4844892
Conc: 32.67 ug/ml



#7 n-Hexadecane (C16)

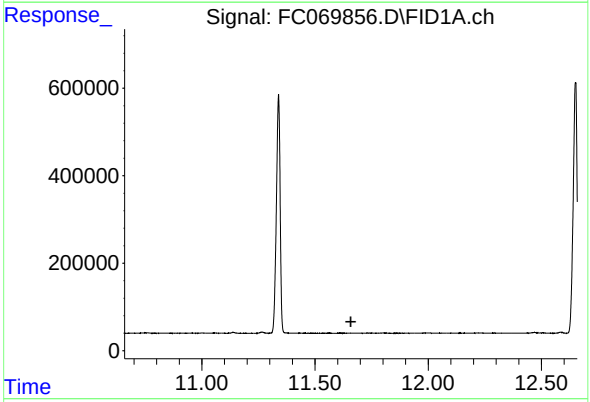
R.T.: 9.895 min
Delta R.T.: 0.000 min
Response: 5558912
Conc: 33.68 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BSD



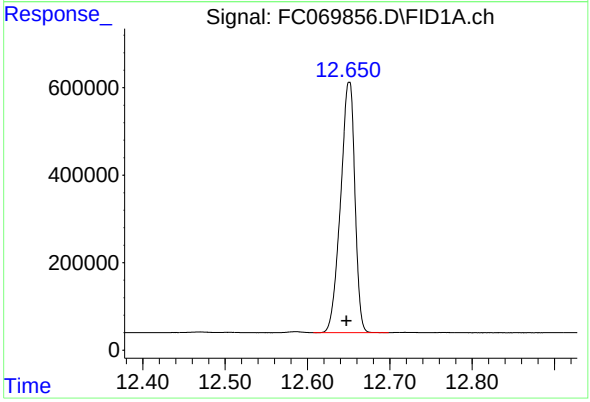
#8 n-Octadecane (C18)

R.T.: 11.339 min
Delta R.T.: 0.002 min
Response: 6295117
Conc: 35.32 ug/ml



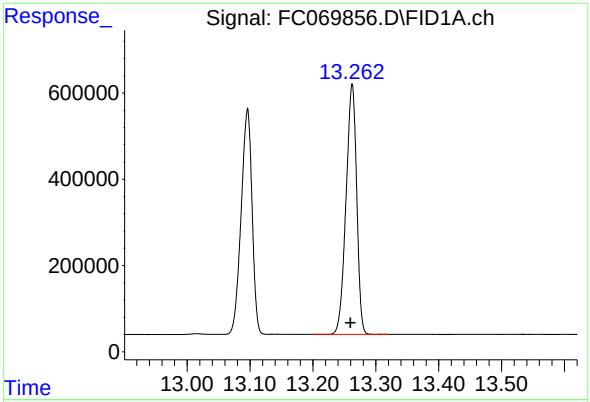
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.658 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

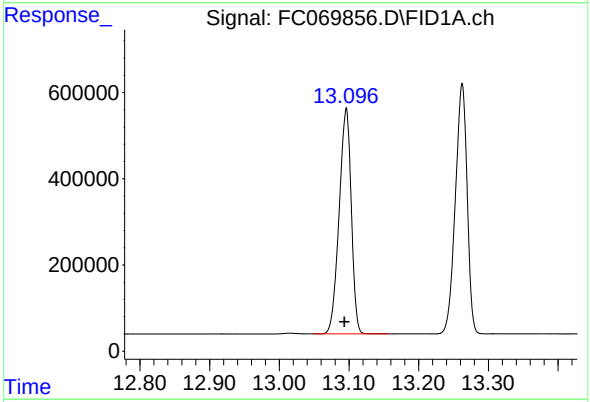
R.T.: 12.650 min
Delta R.T.: 0.003 min
Response: 6917461
Conc: 38.41 ug/ml



#11 n-Heneicosane (C21)

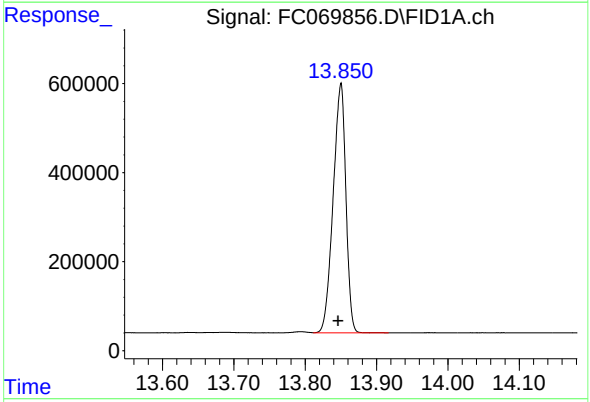
R.T.: 13.262 min
Delta R.T.: 0.003 min
Response: 6830349
Conc: 37.88 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BSD



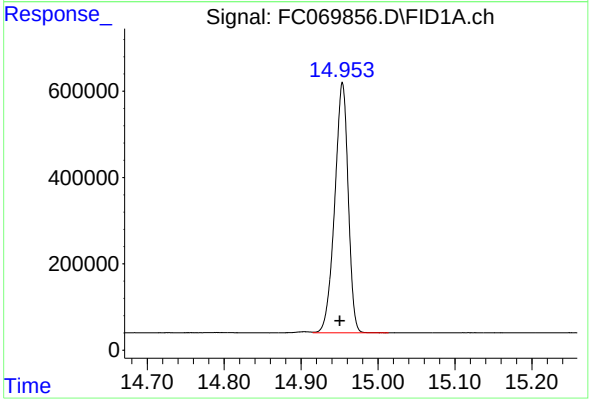
#12 1-chlorooctadecane (SURR)

R.T.: 13.096 min
Delta R.T.: 0.002 min
Response: 6307554
Conc: 39.94 ug/ml



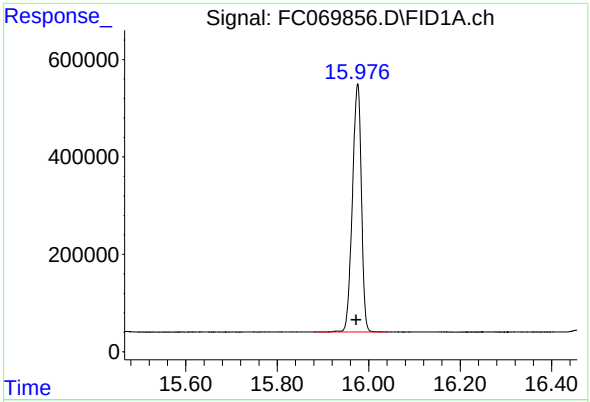
#13 n-Docosane (C22)

R.T.: 13.850 min
Delta R.T.: 0.003 min
Response: 6936672
Conc: 38.18 ug/ml



#14 n-Tetracosane (C24)

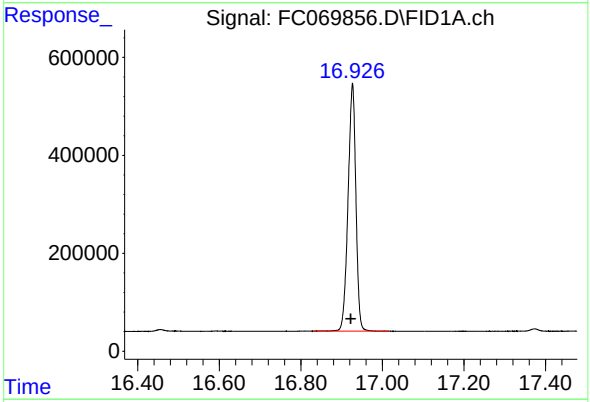
R.T.: 14.954 min
Delta R.T.: 0.003 min
Response: 7049461
Conc: 38.31 ug/ml



#15 n-Hexacosane (C26)

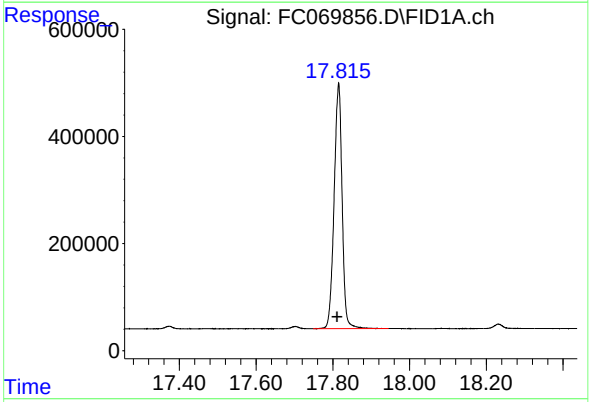
R.T.: 15.976 min
Delta R.T.: 0.003 min
Response: 6945673
Conc: 38.26 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BSD



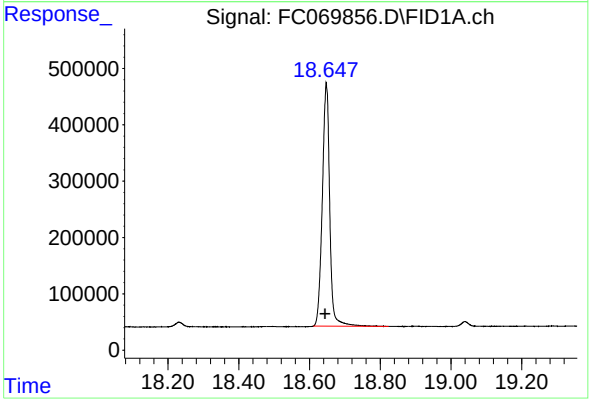
#16 n-Octacosane (C28)

R.T.: 16.927 min
Delta R.T.: 0.004 min
Response: 6753067
Conc: 38.25 ug/ml



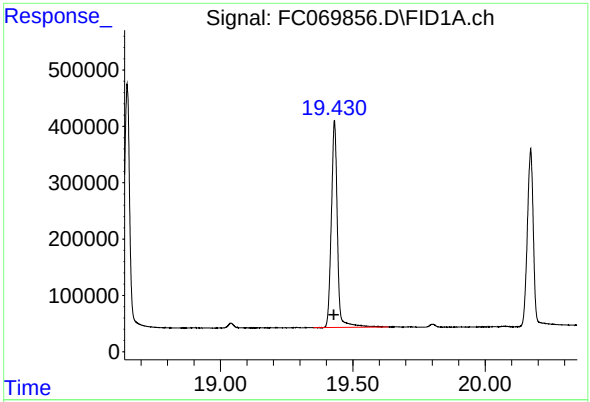
#17 n-Tricontane (C30)

R.T.: 17.815 min
Delta R.T.: 0.004 min
Response: 6625537
Conc: 37.85 ug/ml



#18 n-Dotriacontane (C32)

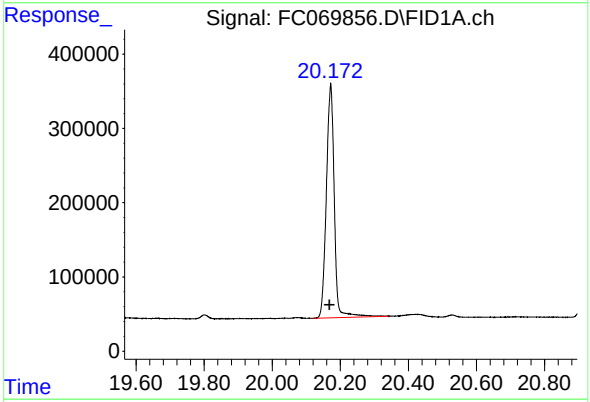
R.T.: 18.648 min
Delta R.T.: 0.004 min
Response: 6268333
Conc: 38.74 ug/ml



#19 n-Tetratriacontane (C34)

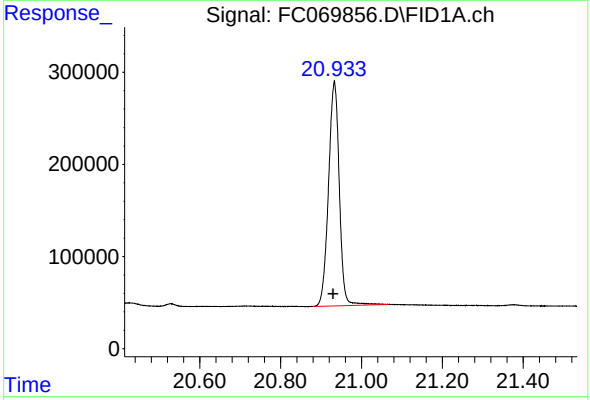
R.T.: 19.431 min
Delta R.T.: 0.003 min
Response: 5827356
Conc: 41.70 ug/ml

Instrument :
FID_C
ClientSampleId :
PB169823BSD



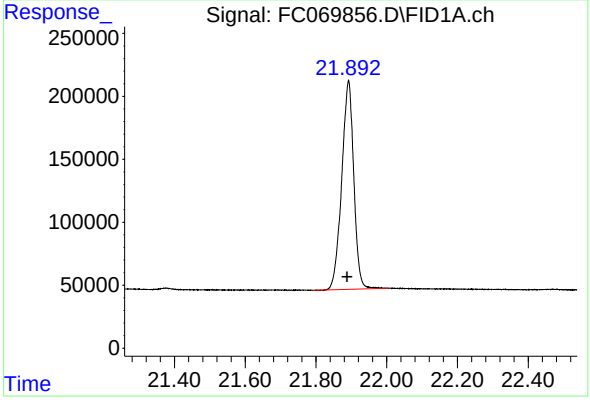
#20 n-Hexatriacontane (C36)

R.T.: 20.172 min
Delta R.T.: 0.003 min
Response: 5068778
Conc: 44.90 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.933 min
Delta R.T.: 0.003 min
Response: 4508780
Conc: 46.74 ug/ml



#22 n-Tetracontane (C40)

R.T.: 21.892 min
Delta R.T.: 0.004 min
Response: 3920949
Conc: 45.52 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC092625AL\
Data File : FC069856.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 14:25
Sample : PB169823BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 092325.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	3.399	3.349	3.460	BB	315532	2649593	37.59%	2.480%
2	4.471	4.415	4.501	BV	369318	3372741	47.84%	3.157%
3	6.493	6.432	6.567	BB	416760	4161781	59.04%	3.895%
4	8.291	8.224	8.362	BV	469037	4844892	68.73%	4.535%
5	9.895	9.847	9.949	BB	502516	5558912	78.86%	5.203%
6	11.339	11.289	11.395	VB	545561	6295117	89.30%	5.892%
7	12.650	12.607	12.699	PV	573876	6917461	98.13%	6.474%
8	13.096	13.049	13.157	BB	520932	6307554	89.48%	5.904%
9	13.262	13.200	13.320	BB	580621	6830349	96.89%	6.393%
10	13.850	13.811	13.917	VB	563418	6936672	98.40%	6.492%
11	14.954	14.916	15.014	VB	580501	7049461	100.00%	6.598%
12	15.976	15.879	16.044	BB	509587	6945673	98.53%	6.501%
13	16.927	16.830	17.015	BB	507547	6753067	95.80%	6.321%
14	17.815	17.749	17.945	BB	460208	6625537	93.99%	6.201%
15	18.648	18.610	18.824	BB	431621	6268333	88.92%	5.867%
16	19.431	19.350	19.635	BB	367297	5827356	82.66%	5.454%
17	20.172	20.120	20.342	BB	316104	5068778	71.90%	4.744%
18	20.933	20.880	21.067	BB	243936	4508780	63.96%	4.220%
19	21.892	21.792	22.005	BB	165984	3920949	55.62%	3.670%
			Sum of corrected areas:			106843004		

Aliphatic EPH 092325.M Sat Sep 27 06:43:17 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 916		Date Received:		
Client Sample ID:	PB169823BSD		SDG No.:	Q3176	
Lab Sample ID:	PB169823BSD		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
FD049786.D	1	09/25/25	10/01/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.55		0.12	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	7.39		0.23	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.1		0.40	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	25.4		1.19	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	39.3		40 - 140	79%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	39.1		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.3		40 - 140	89%	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:	PB169823BSD	Acq On:	01 Oct 2025 16:25
Client Sample ID:	PB169823BSD	Operator:	YP/AJ
Data file:	FD049786.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	4.388	6.131	7928705	68.318	200	ug/ml
Aromatic C12-C16	6.132	8.760	15080741	110.997	300	ug/ml
Aromatic C16-C21	8.761	13.050	30694005	226.073	500	ug/ml
Aromatic C21-C36	13.051	18.471	45082207	381.013	800	ug/ml
Aromatic EPH	4.388	18.471	98785658	786.401		ug/ml
2-Bromonaphthalene (SURR)	7.697	7.697	4417663	39.28		ug/ml
2-Flurobiphenyl (SURR)	8.561	8.561	3137864	39.09		ug/ml
ortho-Terphenyl (SURR)	11.610	11.610	6268340	44.31		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049786.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Oct 02 10:16:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.697	4417663	39.281 ug/ml
Spiked Amount	50.000		Recovery =	78.56%
6)	S 2-Flurobiphenyl (SURR)	8.561	3137864	39.091 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	78.18%
11)	S ortho-Terphenyl (SURR)	11.610	6268340	44.305 ug/ml
Spiked Amount	50.000		Recovery =	88.61%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.488	3552861	32.972 ug/ml
2)	T Naphthalene (C11.7)	6.031	4375844	35.187 ug/ml
3)	T 2-Methylnaphthalene (...	7.086	4378394	33.594 ug/ml
5)	T Acenaphthylene (C15.06)	8.365	5314035	38.330 ug/ml
7)	T Acenaphthene (C15.5)	8.662	5388312	38.870 ug/ml
8)	T Flouorene (C16.55)	9.444	5808457	41.874 ug/ml
9)	T Phenanthrene (C19.36)	10.843	6194585	44.468 ug/ml
10)	T Anthracene (C19.43)	10.918	5886698	44.582 ug/ml
12)	T Fluoranthene (C21.85)	12.658	6385206	47.414 ug/ml
13)	T Pyrene (C20.8)	12.957	6419059	48.255 ug/ml
14)	T Benzo[a]anthracene (C...	14.830	5902706	49.360 ug/ml
15)	T Chrysene (C27.41)	14.874	6453825	53.051 ug/ml
16)	T benzo[b]fluoranthene ...	16.381	5692843	47.492 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.416	5615788	49.840 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.761	5478067	46.683 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.128	5659592	52.022 ug/ml
20)	T Dibenz[a,h]anthracene...	18.167	5274778	46.291 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.384	5004608	43.011 ug/ml

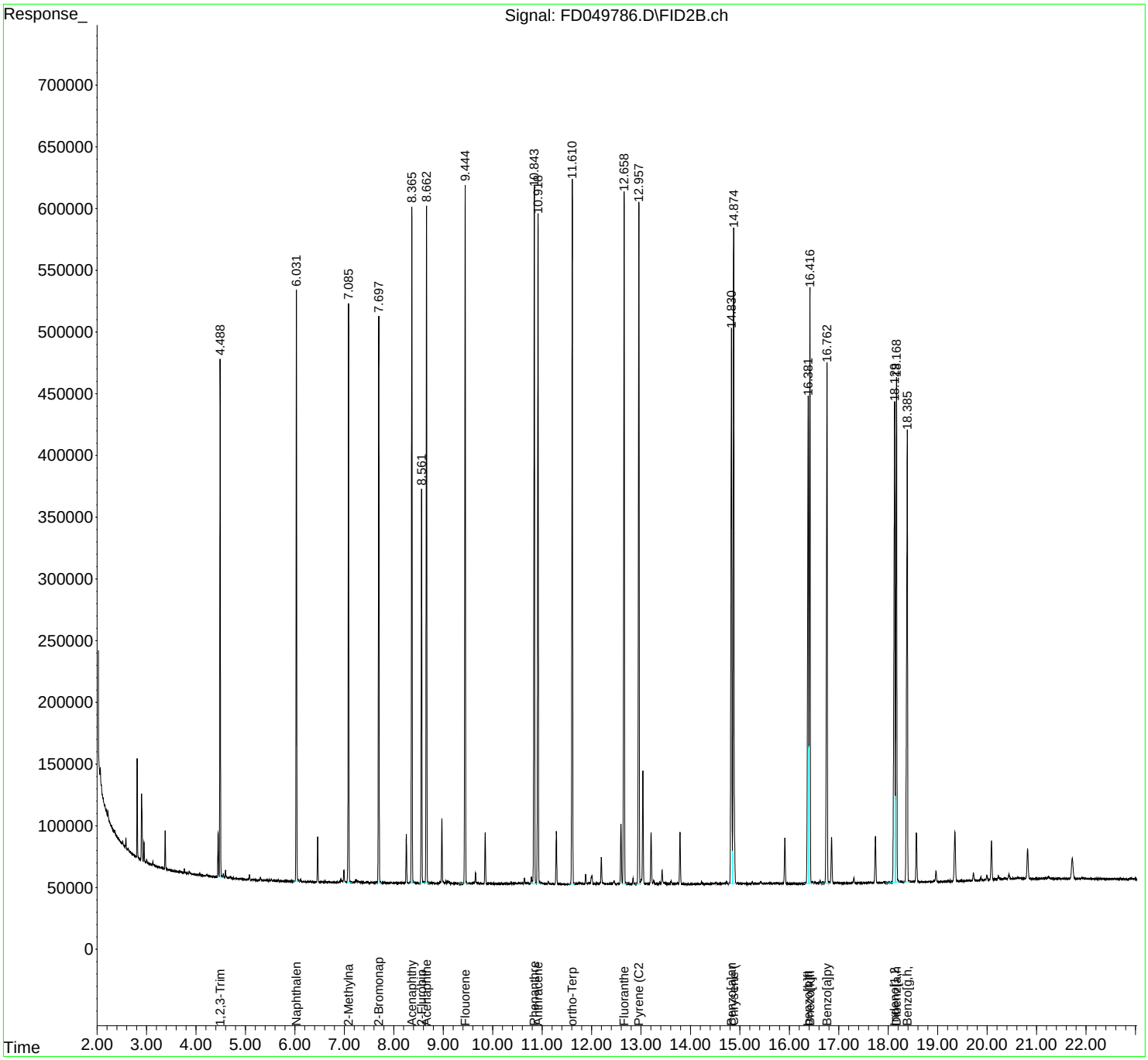
(f)=RT Delta > 1/2 Window (m)=manual int.

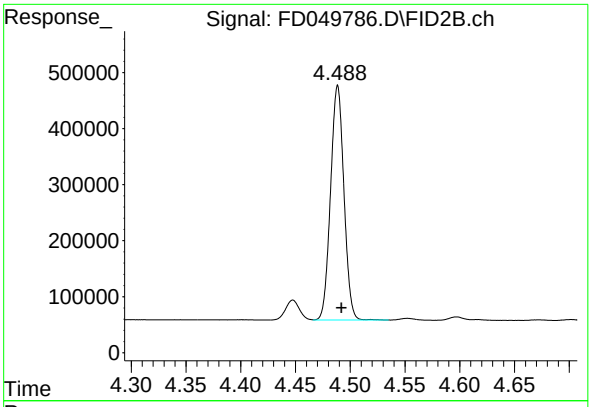
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049786.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:25
Operator : YP/AJ
Sample : PB169823BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB169823BSD

Integration File: autoint1.e
Quant Time: Oct 02 10:16:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

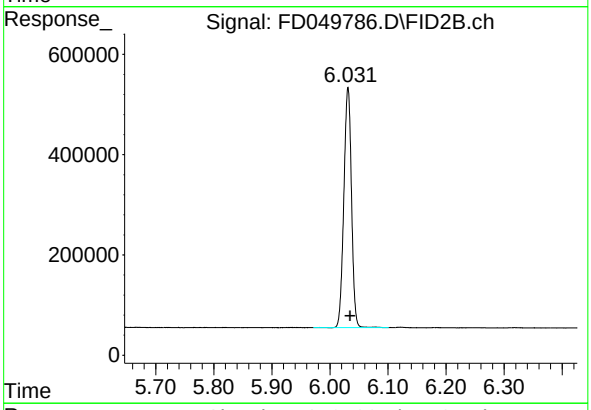




#1 1,2,3-Trimethylbenzene (C10.1)

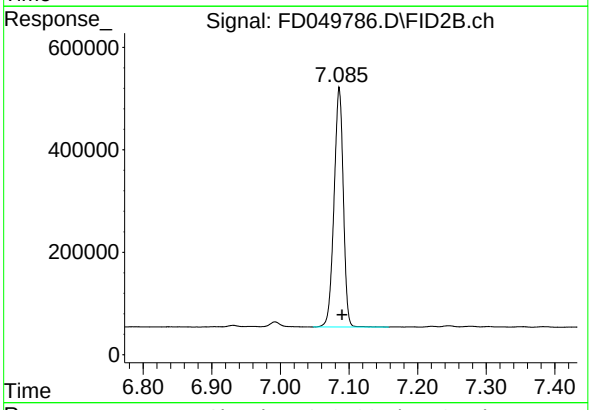
R.T.: 4.488 min
Delta R.T.: -0.004 min
Response: 3552861
Conc: 32.97 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BSD



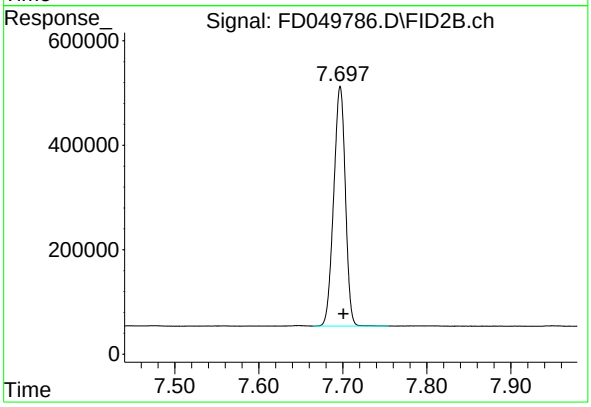
#2 Naphthalene (C11.7)

R.T.: 6.031 min
Delta R.T.: -0.004 min
Response: 4375844
Conc: 35.19 ug/ml



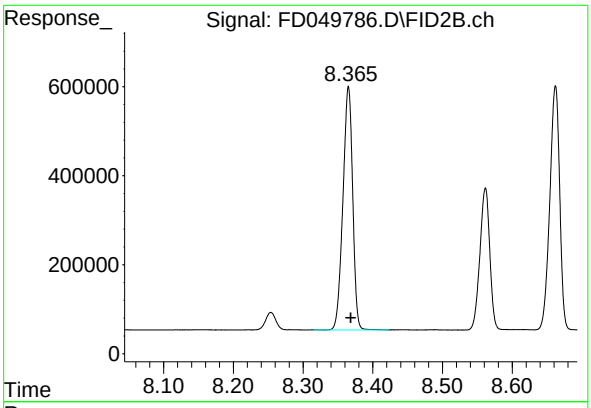
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.086 min
Delta R.T.: -0.004 min
Response: 4378394
Conc: 33.59 ug/ml



#4 2-Bromonaphthalene (SURR)

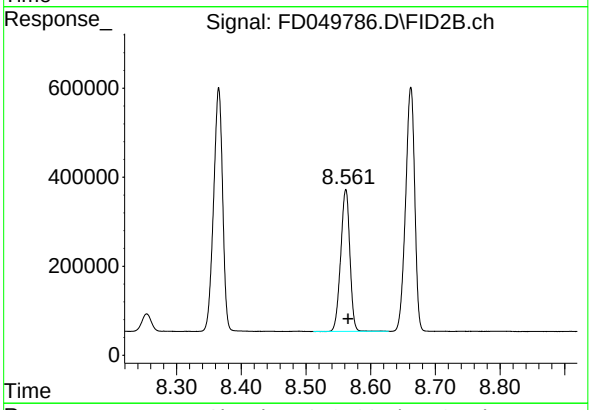
R.T.: 7.697 min
Delta R.T.: -0.004 min
Response: 4417663
Conc: 39.28 ug/ml



#5 Acenaphthylene (C15.06)

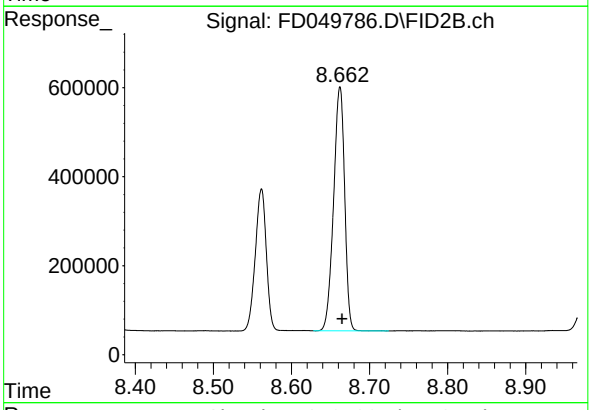
R.T.: 8.365 min
Delta R.T.: -0.004 min
Response: 5314035
Conc: 38.33 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BSD



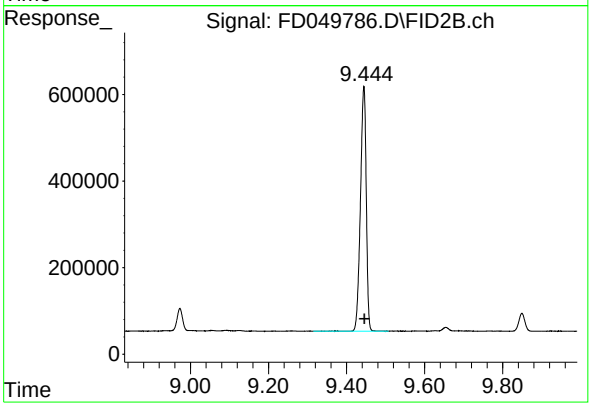
#6 2-Flurobiphenyl (SURR)

R.T.: 8.561 min
Delta R.T.: -0.004 min
Response: 3137864
Conc: 39.09 ug/ml



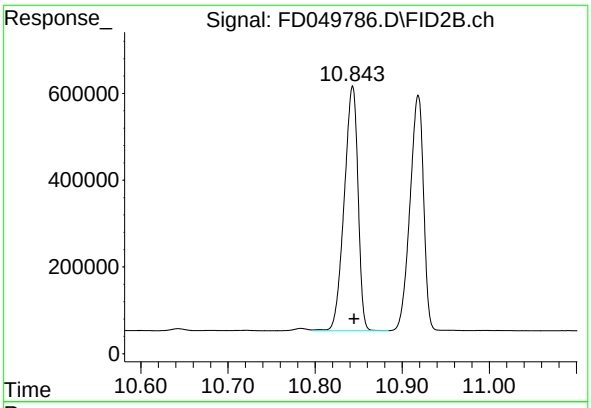
#7 Acenaphthene (C15.5)

R.T.: 8.662 min
Delta R.T.: -0.003 min
Response: 5388312
Conc: 38.87 ug/ml



#8 Flouorene (C16.55)

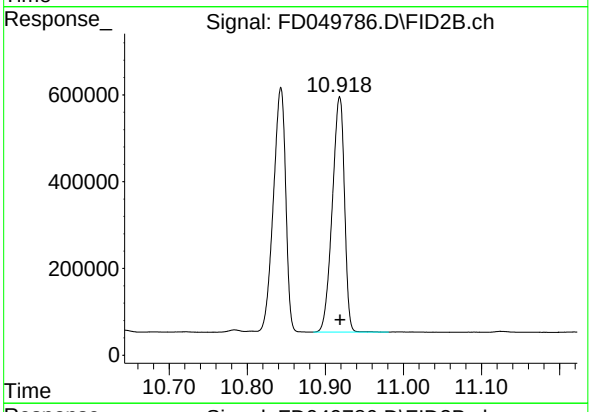
R.T.: 9.444 min
Delta R.T.: -0.002 min
Response: 5808457
Conc: 41.87 ug/ml



#9 Phenanthrene (C19.36)

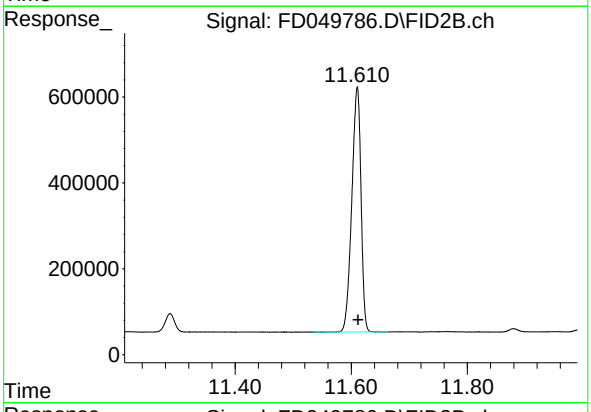
R.T.: 10.843 min
Delta R.T.: -0.002 min
Response: 6194585
Conc: 44.47 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BSD



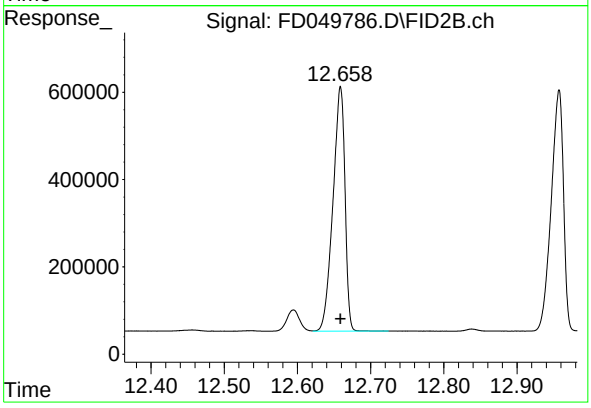
#10 Anthracene (C19.43)

R.T.: 10.918 min
Delta R.T.: -0.001 min
Response: 5886698
Conc: 44.58 ug/ml



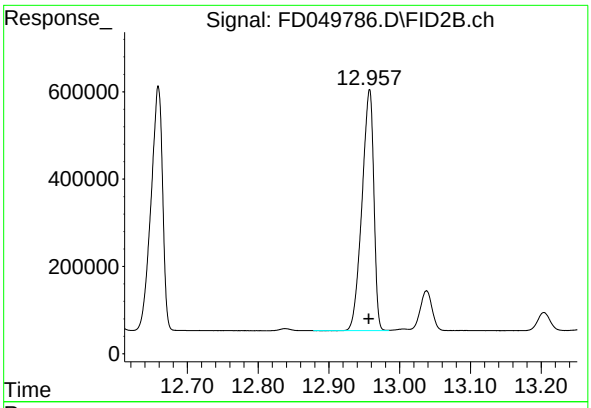
#11 ortho-Terphenyl (SURR)

R.T.: 11.610 min
Delta R.T.: -0.002 min
Response: 6268340
Conc: 44.31 ug/ml



#12 Fluoranthene (C21.85)

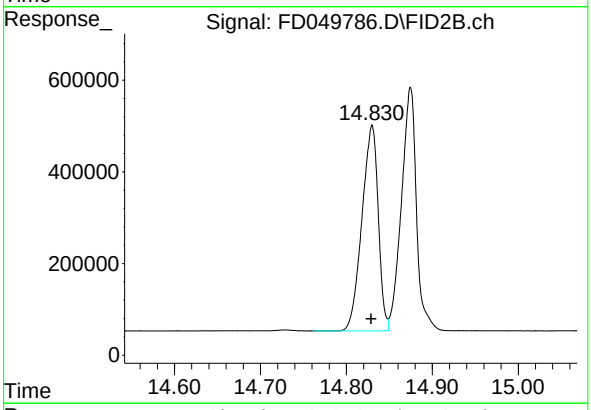
R.T.: 12.658 min
Delta R.T.: 0.000 min
Response: 6385206
Conc: 47.41 ug/ml



#13 Pyrene (C20.8)

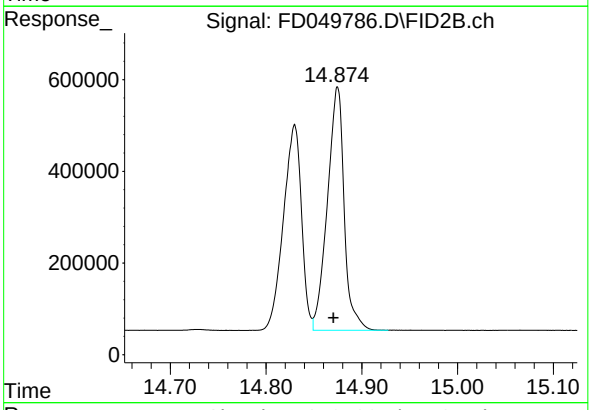
R.T.: 12.957 min
Delta R.T.: 0.000 min
Response: 6419059
Conc: 48.25 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BSD



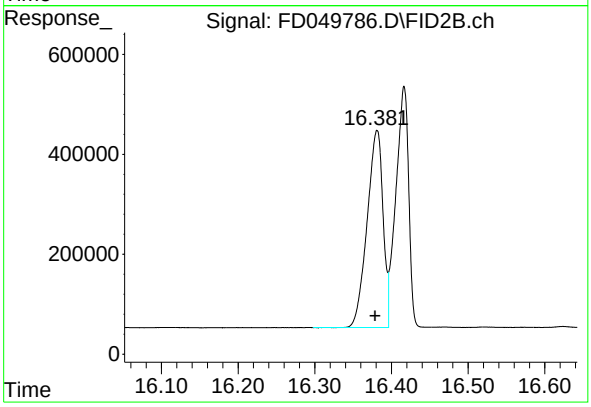
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.830 min
Delta R.T.: 0.000 min
Response: 5902706
Conc: 49.36 ug/ml



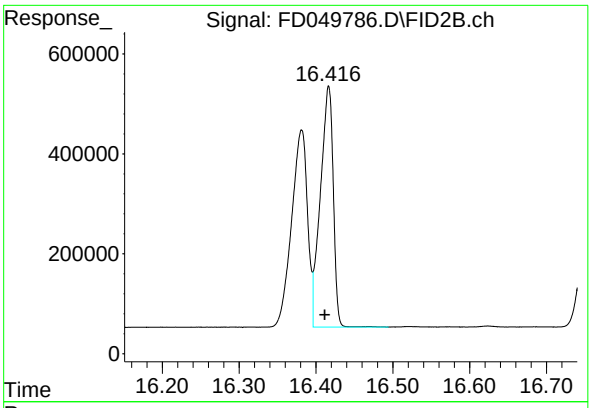
#15 Chrysene (C27.41)

R.T.: 14.874 min
Delta R.T.: 0.004 min
Response: 6453825
Conc: 53.05 ug/ml



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

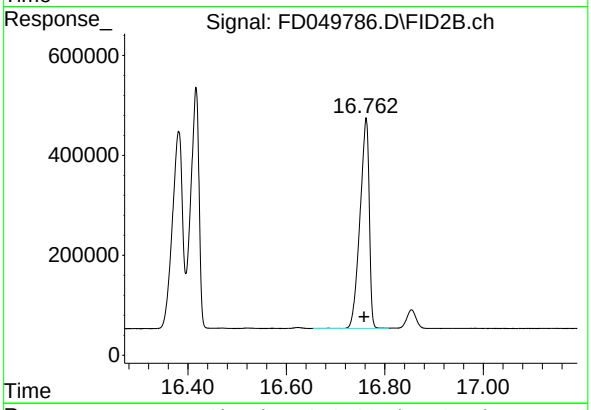
R.T.: 16.381 min
Delta R.T.: 0.002 min
Response: 5692843
Conc: 47.49 ug/ml



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

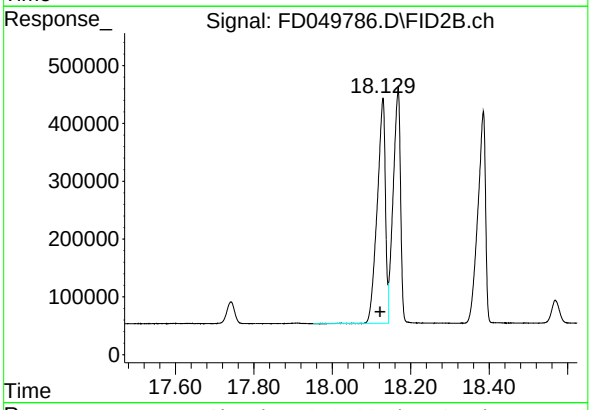
R.T.: 16.416 min
Delta R.T.: 0.005 min
Response: 5615788
Conc: 49.84 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BSD



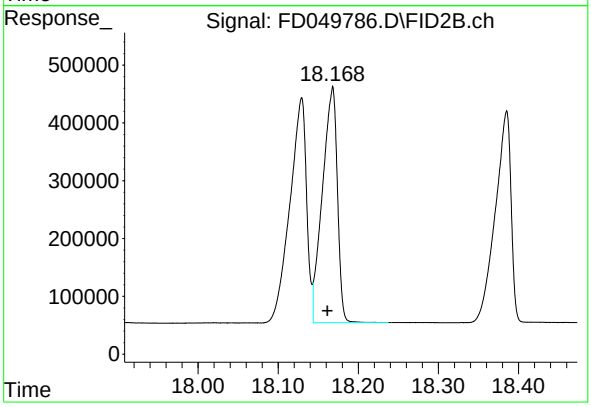
#18 Benzo[a]pyrepyrene (C31.34)

R.T.: 16.761 min
Delta R.T.: 0.004 min
Response: 5478067
Conc: 46.68 ug/ml



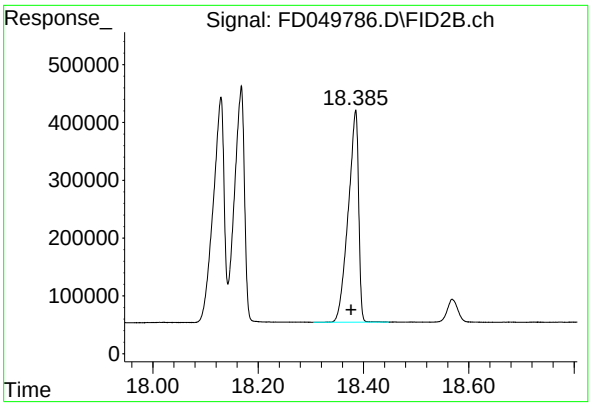
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.128 min
Delta R.T.: 0.006 min
Response: 5659592
Conc: 52.02 ug/ml



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

R.T.: 18.167 min
Delta R.T.: 0.005 min
Response: 5274778
Conc: 46.29 ug/ml



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

R.T.: 18.384 min
Delta R.T.: 0.008 min
Response: 5004608
Conc: 43.01 ug/ml

Instrument :
FID_D
ClientSampleId :
PB169823BSD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD100125AR\
Data File : FD049786.D
Signal(s) : FID2B.ch
Acq On : 01 Oct 2025 16:25
Sample : PB169823BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.488	4.466	4.535	VV	416351	3552861	55.05%	3.155%
2	6.031	5.971	6.101	BB	479474	4375844	67.80%	3.886%
3	7.086	7.048	7.158	VB	461328	4378394	67.84%	3.888%
4	7.697	7.665	7.755	VB	459887	4417663	68.45%	3.923%
5	8.365	8.315	8.423	BB	545931	5314035	82.34%	4.719%
6	8.561	8.511	8.628	BB	318802	3137864	48.62%	2.786%
7	8.662	8.628	8.725	BB	546829	5388312	83.49%	4.785%
8	9.444	9.315	9.508	BB	567482	5808457	90.00%	5.158%
9	10.843	10.798	10.885	VV	558293	6194585	95.98%	5.501%
10	10.918	10.885	10.981	VB	543236	5886698	91.21%	5.228%
11	11.610	11.535	11.665	BV	575229	6268340	97.13%	5.566%
12	12.658	12.621	12.725	VB	559040	6385206	98.94%	5.670%
13	12.957	12.878	12.985	BV	558776	6419059	99.46%	5.700%
14	14.830	14.761	14.849	BV	452437	5902706	91.46%	5.242%
15	14.874	14.849	14.928	VB	533907	6453825	100.00%	5.731%
16	16.381	16.298	16.396	BV	396030	5692843	88.21%	5.055%
17	16.416	16.396	16.495	VB	475353	5615788	87.01%	4.987%
18	16.761	16.655	16.808	BV	418539	5478067	84.88%	4.865%
19	18.128	17.951	18.144	BV	385261	5659592	87.69%	5.026%
20	18.167	18.144	18.238	VB	409477	5274778	81.73%	4.684%
21	18.384	18.305	18.448	BB	365528	5004608	77.54%	4.444%

Sum of corrected areas: 112609525

Aromatic EPH 090425.M Thu Oct 02 10:24:15 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MS	SDG No.:	Q3176
Lab Sample ID:	Q3178-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049768.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	8.98		0.17	0.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.5		0.32	1.40	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.3		0.56	2.33	mg/kg
Aromatic C21-C36	Aromatic C21-C36	53.0		1.66	3.73	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	41.8		40 - 140	84%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.1		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.4		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:	Q3178-02	Acq On:	26 Sep 2025 11:22
Client Sample ID:	EME-TS14-01MS	Operator:	YP/AJ
Data file:	FD049768.D	Misc:	
Instrument:	FID_D	ALS Vial:	58
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.389	6.132	11175539	96.294	200	ug/ml
Aromatic C12-C16	6.133	8.761	22542987	165.921	300	ug/ml
Aromatic C16-C21	8.762	13.054	49938394	367.815	500	ug/ml
Aromatic C21-C36	13.055	18.477	67214486	568.065	800	ug/ml
Aromatic EPH	4.389	18.477	150871406	1200		ug/ml
2-Bromonaphthalene (SURR)	7.699	7.699	4703481	41.82		ug/ml
2-Flurobiphenyl (SURR)	8.564	8.564	2653811	33.06		ug/ml
ortho-Terphenyl (SURR)	11.612	11.612	4723031	33.38		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049768.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 11:22
Operator : YP/AJ
Sample : Q3178-01MS
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 29 00:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.699	4703481	41.822 ug/ml
Spiked Amount	50.000		Recovery =	83.64%
6) S	2-Flurobiphenyl (SURR)	8.564	2653811	33.061 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	66.12%
11) S	ortho-Terphenyl (SURR)	11.612	4723031	33.383 ug/ml
Spiked Amount	50.000		Recovery =	66.77%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.491	4146400	38.481 ug/ml
2) T	Naphthalene (C11.7)	6.033	5486104	44.115 ug/ml
3) T	2-Methylnaphthalene (...	7.088	5521013	42.361 ug/ml
5) T	Acenaphthylene (C15.06)	8.369	7244944	52.257 ug/ml
7) T	Acenaphthene (C15.5)	8.666	6849209	49.409 ug/ml
8) T	Flouorene (C16.55)	9.448	7823785	56.402 ug/ml
9) T	Phenanthrene (C19.36)	10.848	8126128	58.334 ug/ml
10) T	Anthracene (C19.43)	10.924	7876603	59.653 ug/ml
12) T	Fluoranthene (C21.85)	12.665	8157150	60.571 ug/ml
13) T	Pyrene (C20.8)	12.963	8137430	61.173 ug/ml
14) T	Benzo[a]anthracene (C...	14.836	7515317	62.845 ug/ml
15) T	Chrysene (C27.41)	14.883	8567196	70.423 ug/ml
16) T	benzo[b]fluoranthene ...	16.390	7167801	59.797 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.426	6939555	61.589 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.771	6852663	58.397 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.138	7599233	69.852 ug/ml
20) T	Dibenz[a,h]anthracene...	18.177	6630988	58.192 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.395	6408733	55.078 ug/ml

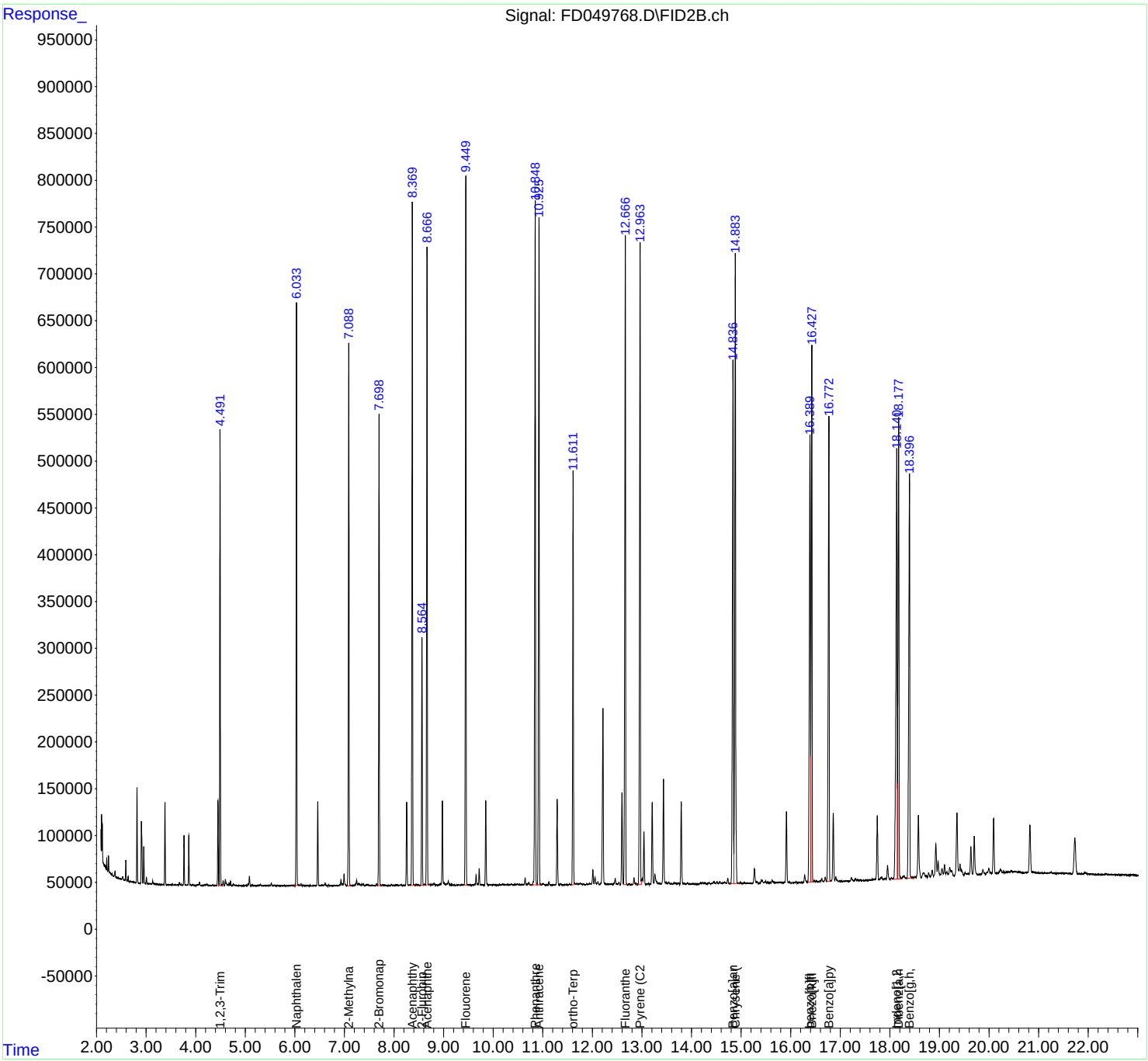
(f)=RT Delta > 1/2 Window (m)=manual int.

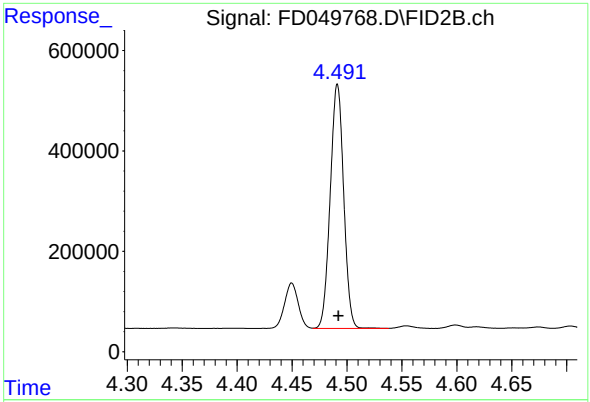
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049768.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 11:22
Operator : YP/AJ
Sample : Q3178-01MS
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 29 00:21:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

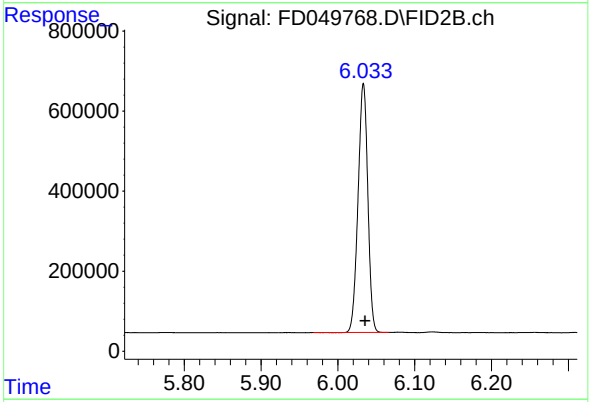




#1 1,2,3-Trimethylbenzene (C10.1)

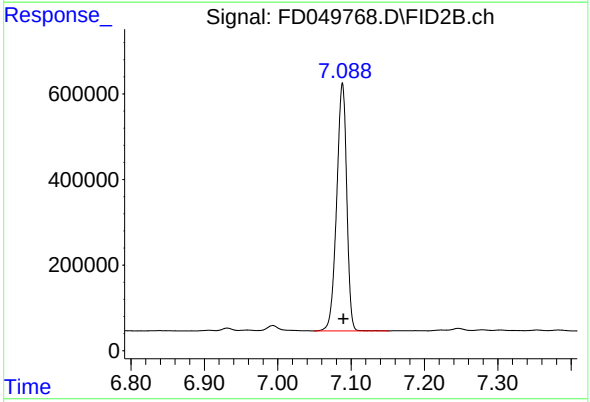
R.T.: 4.491 min
Delta R.T.: 0.000 min
Response: 4146400
Conc: 38.48 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS



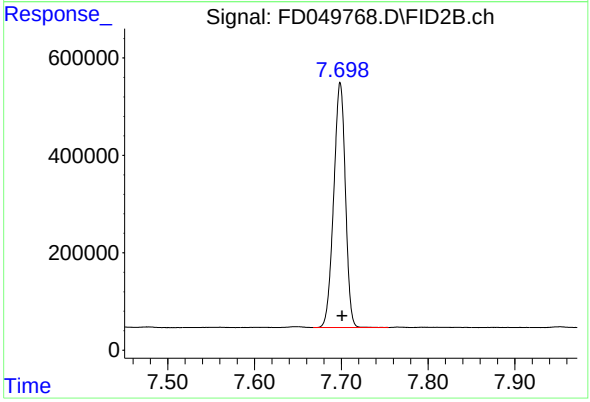
#2 Naphthalene (C11.7)

R.T.: 6.033 min
Delta R.T.: -0.002 min
Response: 5486104
Conc: 44.11 ug/ml



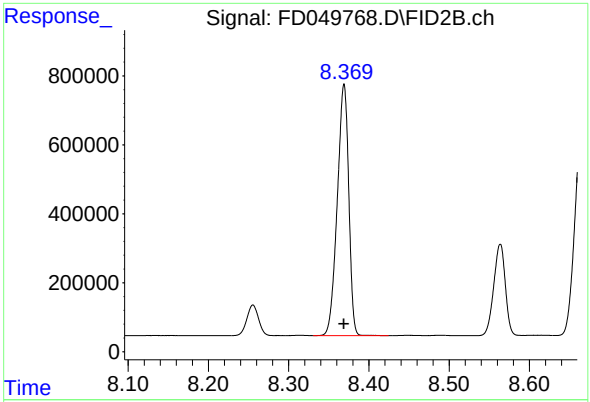
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.088 min
Delta R.T.: -0.002 min
Response: 5521013
Conc: 42.36 ug/ml



#4 2-Bromonaphthalene (SURR)

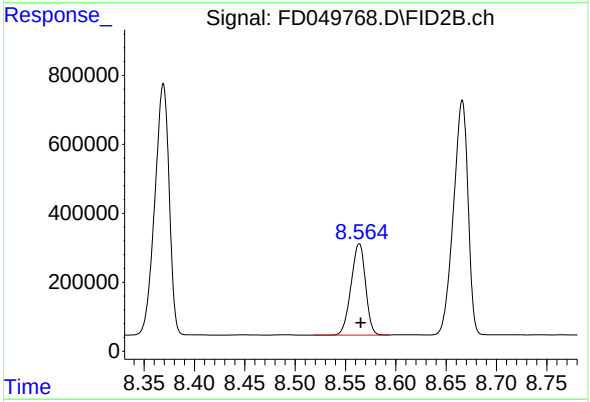
R.T.: 7.699 min
Delta R.T.: -0.002 min
Response: 4703481
Conc: 41.82 ug/ml



#5 Acenaphthylene (C15.06)

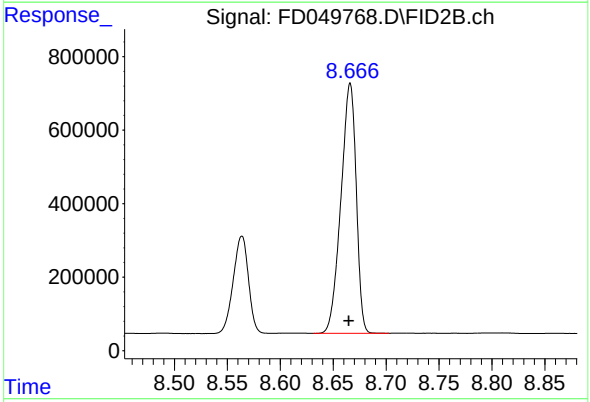
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 7244944
Conc: 52.26 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS



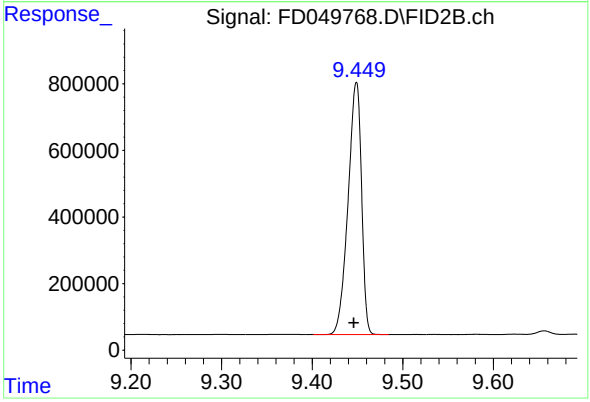
#6 2-Flurobiphenyl (SURR)

R.T.: 8.564 min
Delta R.T.: -0.002 min
Response: 2653811
Conc: 33.06 ug/ml



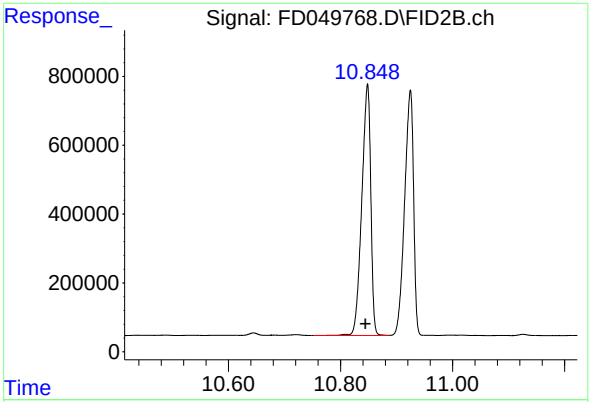
#7 Acenaphthene (C15.5)

R.T.: 8.666 min
Delta R.T.: 0.001 min
Response: 6849209
Conc: 49.41 ug/ml



#8 Flouorene (C16.55)

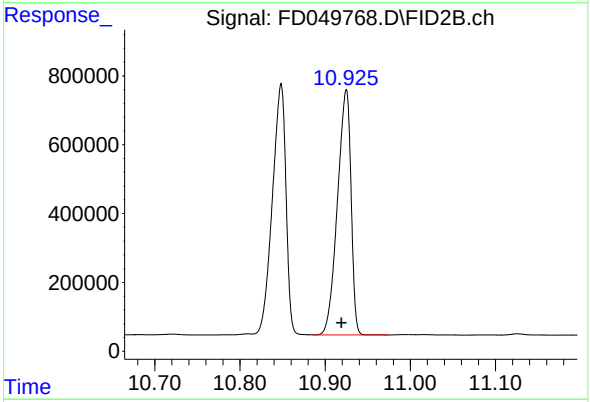
R.T.: 9.448 min
Delta R.T.: 0.003 min
Response: 7823785
Conc: 56.40 ug/ml



#9 Phenanthrene (C19.36)

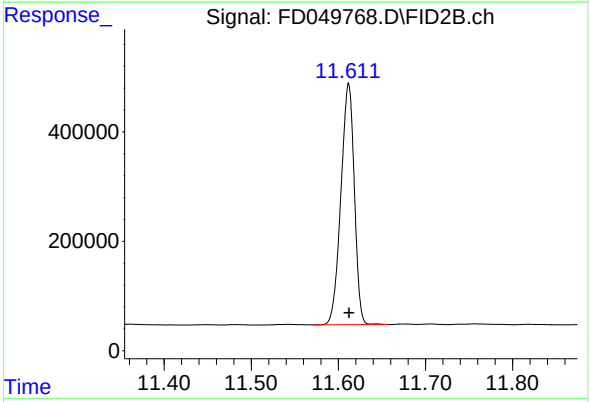
R.T.: 10.848 min
Delta R.T.: 0.003 min
Response: 8126128
Conc: 58.33 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS



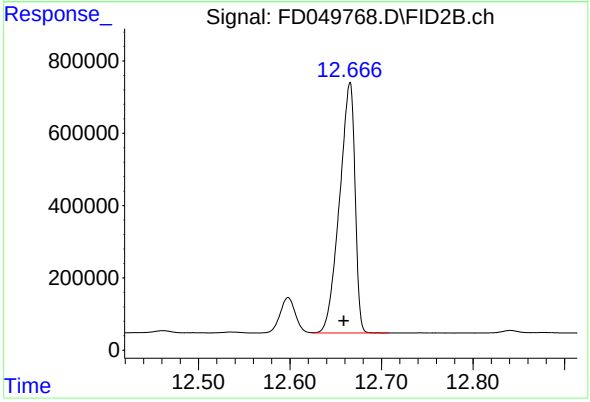
#10 Anthracene (C19.43)

R.T.: 10.924 min
Delta R.T.: 0.005 min
Response: 7876603
Conc: 59.65 ug/ml



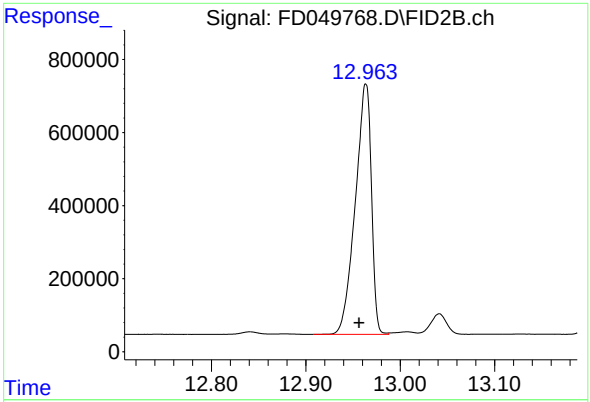
#11 ortho-Terphenyl (SURR)

R.T.: 11.612 min
Delta R.T.: 0.000 min
Response: 4723031
Conc: 33.38 ug/ml



#12 Fluoranthene (C21.85)

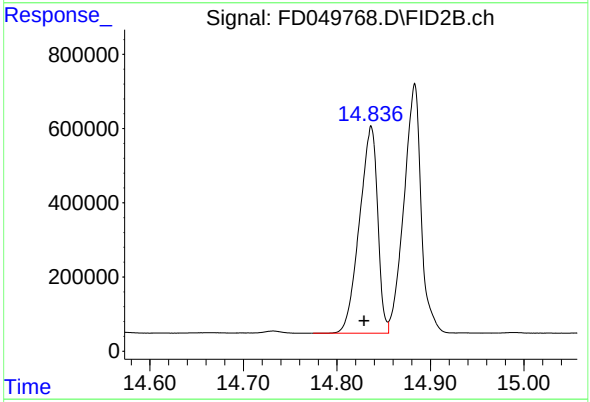
R.T.: 12.665 min
Delta R.T.: 0.006 min
Response: 8157150
Conc: 60.57 ug/ml



#13 Pyrene (C20.8)

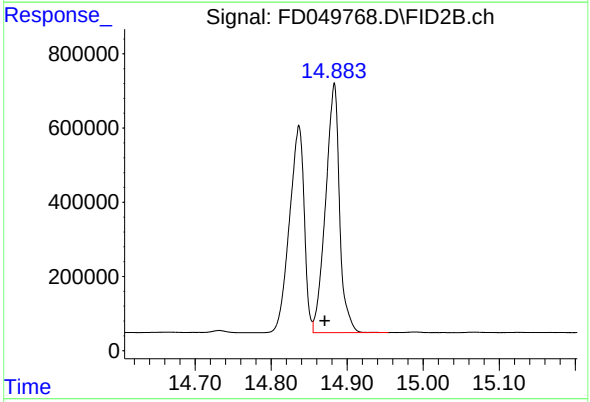
R.T.: 12.963 min
Delta R.T.: 0.007 min
Response: 8137430
Conc: 61.17 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS



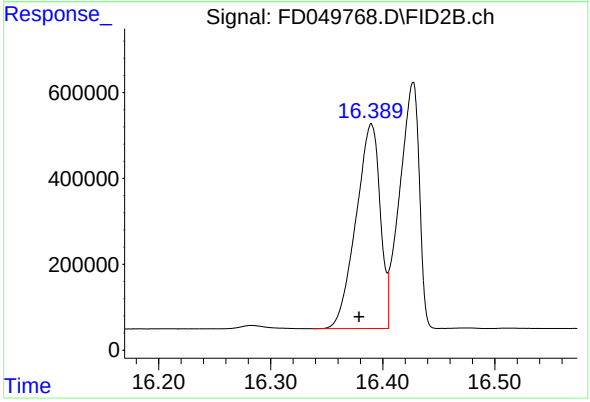
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.836 min
Delta R.T.: 0.007 min
Response: 7515317
Conc: 62.84 ug/ml



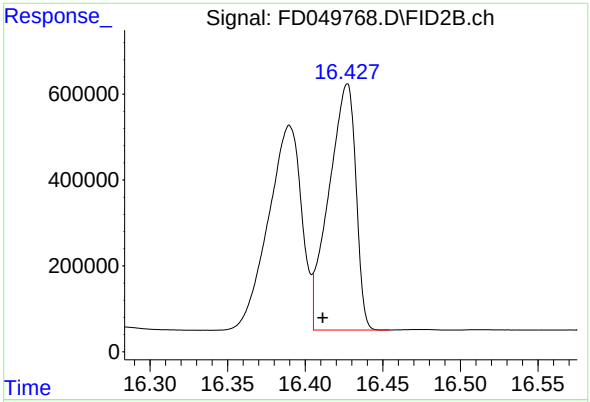
#15 Chrysene (C27.41)

R.T.: 14.883 min
Delta R.T.: 0.012 min
Response: 8567196
Conc: 70.42 ug/ml



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

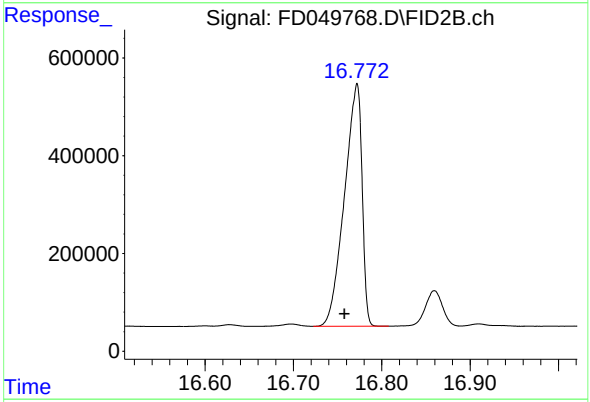
R.T.: 16.390 min
Delta R.T.: 0.011 min
Response: 7167801
Conc: 59.80 ug/ml



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

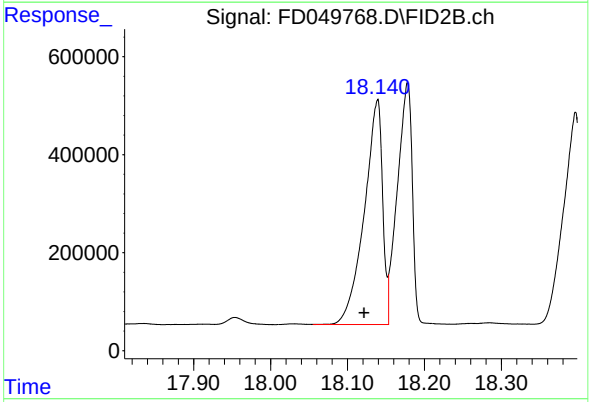
R.T.: 16.426 min
Delta R.T.: 0.015 min
Response: 6939555
Conc: 61.59 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS



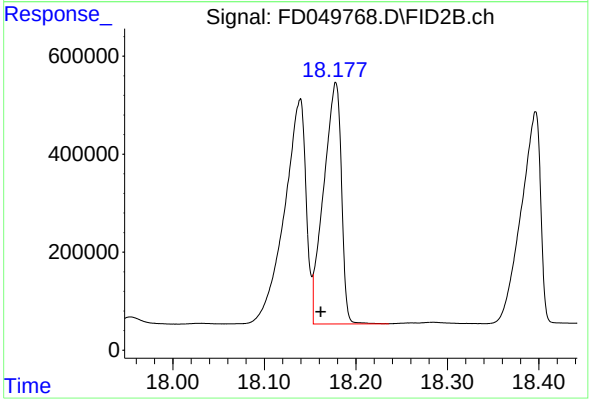
#18 Benzo[a]pyryene (C31.34)

R.T.: 16.771 min
Delta R.T.: 0.013 min
Response: 6852663
Conc: 58.40 ug/ml



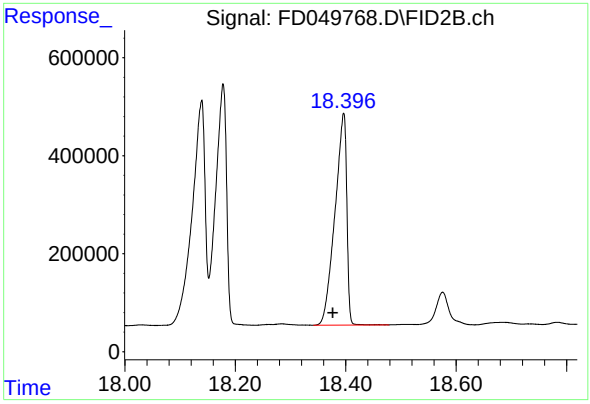
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.138 min
Delta R.T.: 0.016 min
Response: 7599233
Conc: 69.85 ug/ml



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

R.T.: 18.177 min
Delta R.T.: 0.016 min
Response: 6630988
Conc: 58.19 ug/ml



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

R.T.:	18.395 min
Delta R.T.:	0.019 min
Response:	6408733
Conc:	55.08 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MS

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049768.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 11:22
Sample : Q3178-01MS
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.269	4.252	4.284	BV	199	1186	0.01%	0.001%
2	4.293	4.284	4.303	PV	237	1798	0.02%	0.001%
3	4.309	4.303	4.320	VV	257	1708	0.02%	0.001%
4	4.342	4.320	4.372	VV	1116	12290	0.14%	0.008%
5	4.379	4.372	4.385	PV	253	1145	0.01%	0.001%
6	4.402	4.385	4.418	VV	481	5354	0.06%	0.003%
7	4.450	4.426	4.469	VV	90544	781522	9.11%	0.479%
8	4.491	4.469	4.539	VV	486410	4154408	48.40%	2.549%
9	4.554	4.539	4.580	VV	5289	53735	0.63%	0.033%
10	4.599	4.580	4.611	VV	7028	65924	0.77%	0.040%
11	4.618	4.611	4.640	VV	3472	34418	0.40%	0.021%
12	4.652	4.640	4.661	VV	1285	12125	0.14%	0.007%
13	4.674	4.661	4.687	VV	3173	28436	0.33%	0.017%
14	4.703	4.687	4.727	VV	4932	45749	0.53%	0.028%
15	4.758	4.739	4.772	VV	2537	22215	0.26%	0.014%
16	4.781	4.772	4.797	VV	1111	10814	0.13%	0.007%
17	4.802	4.797	4.806	VV	440	1888	0.02%	0.001%
18	4.819	4.806	4.834	VV	564	6779	0.08%	0.004%
19	4.839	4.834	4.852	VV	139	1180	0.01%	0.001%
20	4.862	4.852	4.870	VV	277	1957	0.02%	0.001%
21	4.874	4.870	4.882	VV	396	2069	0.02%	0.001%
22	4.888	4.882	4.922	VV	416	5099	0.06%	0.003%
23	4.946	4.932	4.952	PV	267	2040	0.02%	0.001%
24	4.984	4.952	4.994	VV	704	9170	0.11%	0.006%
25	5.007	4.994	5.026	VV	678	8137	0.09%	0.005%

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26	5.031	5.026	5.036	VV	272	1331	0.02%	0.001%
27	5.057	5.036	5.066	VV	1907	18053	0.21%	0.011%
28	5.083	5.066	5.118	VV	10281	109472	1.28%	0.067%
29	5.141	5.118	5.164	VV	1918	18872	0.22%	0.012%
30	5.187	5.173	5.207	PV	416	4186	0.05%	0.003%
31	5.214	5.207	5.227	VV	269	1652	0.02%	0.001%
32	5.249	5.227	5.253	VV	268	2371	0.03%	0.001%
33	5.276	5.253	5.284	VV	588	7133	0.08%	0.004%
34	5.304	5.284	5.339	VV	1742	23997	0.28%	0.015%
35	5.348	5.339	5.385	VV	245	4970	0.06%	0.003%
36	5.388	5.385	5.425	VV	230	4361	0.05%	0.003%
37	5.450	5.425	5.470	VV	511	8724	0.10%	0.005%
38	5.484	5.470	5.499	VV	1324	13235	0.15%	0.008%
39	5.527	5.499	5.552	VV	3322	39760	0.46%	0.024%
40	5.560	5.552	5.566	VV	405	3001	0.03%	0.002%
41	5.582	5.566	5.638	VV	1100	16458	0.19%	0.010%
42	5.652	5.638	5.658	VV	486	4436	0.05%	0.003%
43	5.664	5.658	5.667	VV	522	2197	0.03%	0.001%
44	5.671	5.667	5.695	VV	609	5127	0.06%	0.003%
45	5.725	5.695	5.752	VV	529	10246	0.12%	0.006%
46	5.777	5.752	5.808	VV	671	11759	0.14%	0.007%
47	5.812	5.808	5.818	VV	279	1418	0.02%	0.001%
48	5.843	5.818	5.865	VV	486	8476	0.10%	0.005%
49	5.910	5.865	5.917	VV	384	8097	0.09%	0.005%
50	5.932	5.917	5.962	VV	471	10009	0.12%	0.006%
51	5.971	5.962	6.001	VV	637	11187	0.13%	0.007%
52	6.033	6.001	6.069	VV	622831	5518204	64.29%	3.385%
53	6.079	6.069	6.107	VV	1596	21697	0.25%	0.013%
54	6.123	6.107	6.159	VV	2258	32091	0.37%	0.020%
55	6.164	6.159	6.174	VV	604	4398	0.05%	0.003%
56	6.182	6.174	6.211	VV	751	10875	0.13%	0.007%
57	6.226	6.211	6.231	VV	468	4579	0.05%	0.003%
58	6.257	6.231	6.291	VV	956	20281	0.24%	0.012%
59	6.309	6.291	6.334	VV	948	11123	0.13%	0.007%
60	6.371	6.342	6.389	VV	560	9036	0.11%	0.006%
61	6.402	6.389	6.411	VV	458	5340	0.06%	0.003%
62	6.420	6.411	6.435	VV	457	6034	0.07%	0.004%
63	6.463	6.435	6.492	VV	90118	853261	9.94%	0.523%
64	6.498	6.492	6.508	VV	668	4893	0.06%	0.003%
65	6.521	6.508	6.527	VV	570	5858	0.07%	0.004%
66	6.548	6.527	6.568	VV	1611	22282	0.26%	0.014%
67	6.583	6.568	6.595	VV	1395	14025	0.16%	0.009%
68	6.613	6.595	6.633	VV	3027	34145	0.40%	0.021%
69	6.646	6.633	6.665	VV	929	11021	0.13%	0.007%

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70	6.685	6.665	6.720	VV	1614	19060	0.22%	0.012%
71	6.750	6.720	6.766	VV	429	6935	0.08%	0.004%
72	6.789	6.766	6.805	VV	672	9813	0.11%	0.006%
73	6.838	6.805	6.870	VV	871	17520	0.20%	0.011%
74	6.907	6.877	6.916	VV	1796	18514	0.22%	0.011%
75	6.931	6.916	6.947	VV	6719	66340	0.77%	0.041%
76	6.958	6.947	6.972	VV	2200	24831	0.29%	0.015%
77	6.993	6.972	7.049	VV	12812	157563	1.84%	0.097%
78	7.088	7.049	7.152	VV	580131	5532742	64.46%	3.394%
79	7.162	7.152	7.182	VV	570	8410	0.10%	0.005%
80	7.192	7.182	7.205	VV	745	7404	0.09%	0.005%
81	7.223	7.205	7.230	VV	2270	22016	0.26%	0.014%
82	7.246	7.230	7.265	VV	6166	72525	0.85%	0.044%
83	7.279	7.265	7.292	VV	2704	31684	0.37%	0.019%
84	7.304	7.292	7.339	VV	2266	35846	0.42%	0.022%
85	7.354	7.339	7.368	VV	2249	24542	0.29%	0.015%
86	7.383	7.368	7.405	VV	2204	24850	0.29%	0.015%
87	7.450	7.405	7.464	PV	1345	25756	0.30%	0.016%
88	7.477	7.464	7.504	VV	1504	18098	0.21%	0.011%
89	7.560	7.504	7.578	VV	848	18590	0.22%	0.011%
90	7.588	7.578	7.591	VV	453	2729	0.03%	0.002%
91	7.602	7.591	7.629	VV	625	11018	0.13%	0.007%
92	7.648	7.629	7.668	VV	2088	26338	0.31%	0.016%
93	7.699	7.668	7.755	VV	503689	4722221	55.02%	2.897%
94	7.765	7.755	7.782	VV	1147	11336	0.13%	0.007%
95	7.793	7.782	7.829	VV	780	17976	0.21%	0.011%
96	7.835	7.829	7.863	VV	638	8017	0.09%	0.005%
97	7.874	7.863	7.896	VV	512	7700	0.09%	0.005%
98	7.907	7.896	7.934	VV	436	6721	0.08%	0.004%
99	7.952	7.934	7.977	VV	1807	22351	0.26%	0.014%
100	7.983	7.977	7.989	VV	391	2692	0.03%	0.002%
101	8.007	7.989	8.022	VV	619	9615	0.11%	0.006%
102	8.045	8.022	8.068	VV	819	15865	0.18%	0.010%
103	8.076	8.068	8.097	VV	683	9473	0.11%	0.006%
104	8.134	8.097	8.141	VV	784	16225	0.19%	0.010%
105	8.155	8.141	8.180	VV	784	13337	0.16%	0.008%
106	8.188	8.180	8.193	VV	436	3232	0.04%	0.002%
107	8.205	8.193	8.225	VV	573	8192	0.10%	0.005%
108	8.256	8.225	8.284	VV	89437	909967	10.60%	0.558%
109	8.287	8.284	8.297	VV	687	4723	0.06%	0.003%
110	8.316	8.297	8.331	VV	1436	17914	0.21%	0.011%
111	8.369	8.331	8.427	VV	729226	7264214	84.64%	4.456%
112	8.448	8.427	8.471	VV	1159	19726	0.23%	0.012%

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113	8.489	8.471	8.515	VV	1439	20508	0.24%	0.013%
114	8.522	8.515	8.527	VV	304	1936	0.02%	0.001%
115	8.564	8.527	8.593	VV	265627	2670217	31.11%	1.638%
116	8.615	8.593	8.633	VV	1512	28323	0.33%	0.017%
117	8.666	8.633	8.704	VV	680414	6887150	80.24%	4.225%
118	8.718	8.704	8.730	VV	1457	20059	0.23%	0.012%
119	8.745	8.730	8.755	VV	1240	15460	0.18%	0.009%
120	8.765	8.755	8.777	VV	1226	12696	0.15%	0.008%
121	8.794	8.777	8.803	VV	1743	22335	0.26%	0.014%
122	8.811	8.803	8.838	VV	1929	23353	0.27%	0.014%
123	8.858	8.838	8.887	VV	986	18101	0.21%	0.011%
124	8.907	8.887	8.916	VV	1077	12777	0.15%	0.008%
125	8.933	8.916	8.950	VV	1932	29897	0.35%	0.018%
126	8.976	8.950	8.999	VV	90772	901345	10.50%	0.553%
127	9.010	8.999	9.027	VV	2443	35761	0.42%	0.022%
128	9.034	9.027	9.045	VV	1471	14014	0.16%	0.009%
129	9.059	9.045	9.066	VV	1625	18808	0.22%	0.012%
130	9.094	9.066	9.119	VV	4610	76757	0.89%	0.047%
131	9.127	9.119	9.152	VV	1174	15214	0.18%	0.009%
132	9.165	9.152	9.195	VV	1304	19560	0.23%	0.012%
133	9.213	9.195	9.245	VV	915	14085	0.16%	0.009%
134	9.268	9.245	9.275	VV	620	7225	0.08%	0.004%
135	9.296	9.275	9.329	VV	923	18267	0.21%	0.011%
136	9.357	9.329	9.374	VV	914	15804	0.18%	0.010%
137	9.377	9.374	9.395	VV	987	8995	0.10%	0.006%
138	9.401	9.395	9.414	VV	608	5652	0.07%	0.003%
139	9.449	9.414	9.484	VV	758857	7840430	91.35%	4.810%
140	9.498	9.484	9.507	VV	534	6810	0.08%	0.004%
141	9.514	9.507	9.525	VV	617	5949	0.07%	0.004%
142	9.539	9.525	9.561	VV	686	9679	0.11%	0.006%
143	9.582	9.561	9.605	VV	1219	18059	0.21%	0.011%
144	9.623	9.605	9.636	VV	1577	20105	0.23%	0.012%
145	9.656	9.636	9.677	VV	11603	124105	1.45%	0.076%
146	9.690	9.677	9.700	VV	1552	16589	0.19%	0.010%
147	9.719	9.700	9.742	VV	18262	184984	2.16%	0.113%
148	9.761	9.742	9.772	VV	690	9479	0.11%	0.006%
149	9.777	9.772	9.782	VV	541	2655	0.03%	0.002%
150	9.787	9.782	9.820	VV	542	6649	0.08%	0.004%
151	9.851	9.820	9.900	VV	90909	993139	11.57%	0.609%
152	9.905	9.900	9.912	VV	457	2409	0.03%	0.001%
153	9.928	9.912	9.936	VV	791	9475	0.11%	0.006%
154	9.939	9.936	9.978	VV	680	12278	0.14%	0.008%
155	10.003	9.978	10.036	VV	470	14007	0.16%	0.009%

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156	10.048	10.036	10.064	VV	725	7890	0.09%	0.005%
157	10.085	10.064	10.104	VV	316	4895	0.06%	0.003%
158	10.128	10.104	10.145	VV	950	13187	0.15%	0.008%
159	10.189	10.145	10.210	VV	1729	33752	0.39%	0.021%
160	10.247	10.210	10.261	VV	975	22794	0.27%	0.014%
161	10.285	10.261	10.300	VV	1077	18955	0.22%	0.012%
162	10.317	10.300	10.342	VV	856	17798	0.21%	0.011%
163	10.371	10.342	10.400	VV	1431	29353	0.34%	0.018%
164	10.407	10.400	10.416	VV	400	3752	0.04%	0.002%
165	10.436	10.416	10.450	VV	1257	17400	0.20%	0.011%
166	10.456	10.450	10.469	VV	1001	10171	0.12%	0.006%
167	10.489	10.469	10.507	VV	1462	23589	0.27%	0.014%
168	10.538	10.507	10.556	VV	1046	22132	0.26%	0.014%
169	10.587	10.556	10.598	VV	1096	21212	0.25%	0.013%
170	10.608	10.598	10.623	VV	988	13253	0.15%	0.008%
171	10.645	10.623	10.667	VV	7877	91952	1.07%	0.056%
172	10.682	10.667	10.697	VV	1311	19401	0.23%	0.012%
173	10.721	10.697	10.765	VV	2935	52270	0.61%	0.032%
174	10.809	10.765	10.814	VV	3773	44000	0.51%	0.027%
175	10.848	10.814	10.887	VV	732262	8120008	94.61%	4.981%
176	10.925	10.887	10.974	VV	715554	7905254	92.11%	4.849%
177	10.994	10.974	11.009	VV	1420	22125	0.26%	0.014%
178	11.016	11.009	11.035	VV	1448	15872	0.18%	0.010%
179	11.040	11.035	11.067	VV	571	6173	0.07%	0.004%
180	11.091	11.067	11.104	VV	449	5683	0.07%	0.003%
181	11.126	11.104	11.170	VV	3730	41817	0.49%	0.026%
182	11.179	11.170	11.196	VV	159	1450	0.02%	0.001%
183	11.223	11.196	11.244	PV	471	7212	0.08%	0.004%
184	11.291	11.244	11.340	VV	92004	1050483	12.24%	0.644%
185	11.362	11.340	11.424	VV	1528	30233	0.35%	0.019%
186	11.449	11.424	11.467	VV	668	7576	0.09%	0.005%
187	11.483	11.467	11.504	VV	768	8167	0.10%	0.005%
188	11.542	11.504	11.571	PV	1125	21541	0.25%	0.013%
189	11.612	11.571	11.637	VV	442095	4730720	55.12%	2.902%
190	11.643	11.637	11.659	VV	1919	19707	0.23%	0.012%
191	11.675	11.659	11.692	VV	1804	26775	0.31%	0.016%
192	11.708	11.692	11.725	VV	1827	25792	0.30%	0.016%
193	11.757	11.725	11.802	VV	2116	57710	0.67%	0.035%
194	11.818	11.802	11.856	VV	1247	22198	0.26%	0.014%
195	11.860	11.856	11.864	VV	255	1149	0.01%	0.001%
196	11.883	11.864	11.902	VV	1510	19868	0.23%	0.012%
197	11.927	11.902	11.931	VV	932	12693	0.15%	0.008%
198	11.955	11.931	11.974	VV	1433	28905	0.34%	0.018%
199	12.011	11.974	12.031	VV	16257	217169	2.53%	0.133%

200	12.053	12.031	12.095	VV	8338	138031	1.61%	0.085%
201	12.113	12.095	12.150	VV	3781	59681	0.70%	0.037%
202	12.214	12.150	12.310	VV	188523	2505571	29.19%	1.537%
203	12.318	12.310	12.323	VV	753	5430	0.06%	0.003%
204	12.335	12.323	12.354	VV	767	11868	0.14%	0.007%
205	12.366	12.354	12.382	VV	835	12740	0.15%	0.008%
206	12.388	12.382	12.404	VV	940	9326	0.11%	0.006%
207	12.461	12.404	12.482	VV	6759	112295	1.31%	0.069%
208	12.489	12.482	12.512	VV	1068	14637	0.17%	0.009%
209	12.536	12.512	12.560	VV	2796	40882	0.48%	0.025%
210	12.598	12.560	12.625	VV	98593	1140641	13.29%	0.700%
211	12.665	12.625	12.717	VV	692696	8166685	95.15%	5.010%
212	12.743	12.717	12.752	VV	492	7522	0.09%	0.005%
213	12.758	12.752	12.781	VV	388	3467	0.04%	0.002%
214	12.795	12.781	12.802	VV	278	1949	0.02%	0.001%
215	12.841	12.802	12.864	PV	7210	91581	1.07%	0.056%
216	12.876	12.864	12.908	VV	1494	21638	0.25%	0.013%
217	12.964	12.908	12.986	VV	686082	8137635	94.81%	4.992%
218	13.007	12.986	13.019	VV	7043	104495	1.22%	0.064%
219	13.041	13.019	13.072	VV	56614	661557	7.71%	0.406%
220	13.084	13.072	13.094	VV	639	6583	0.08%	0.004%
221	13.097	13.094	13.101	VV	574	2021	0.02%	0.001%
222	13.104	13.101	13.110	VV	507	2454	0.03%	0.002%
223	13.130	13.110	13.151	VV	801	14756	0.17%	0.009%
224	13.160	13.151	13.175	VV	557	5215	0.06%	0.003%
225	13.208	13.175	13.239	VV	88012	1077307	12.55%	0.661%
226	13.263	13.239	13.322	VV	10870	223800	2.61%	0.137%
227	13.325	13.322	13.364	VV	1482	27385	0.32%	0.017%
228	13.372	13.364	13.387	VV	824	9384	0.11%	0.006%
229	13.436	13.387	13.522	VV	112913	1424927	16.60%	0.874%
230	13.542	13.522	13.572	VV	2600	45738	0.53%	0.028%
231	13.606	13.572	13.627	VV	839	21964	0.26%	0.013%
232	13.648	13.627	13.673	VV	1952	36383	0.42%	0.022%
233	13.686	13.673	13.704	VV	1150	17139	0.20%	0.011%
234	13.708	13.704	13.713	VV	643	3308	0.04%	0.002%
235	13.734	13.713	13.764	VV	1404	25511	0.30%	0.016%
236	13.794	13.764	13.839	VV	88333	1062907	12.38%	0.652%
237	13.853	13.839	13.893	VV	1011	15802	0.18%	0.010%
238	13.915	13.893	13.948	VV	1650	25371	0.30%	0.016%
239	13.960	13.948	13.984	VV	547	7311	0.09%	0.004%
240	14.010	13.984	14.015	VV	546	7658	0.09%	0.005%
241	14.036	14.015	14.062	VV	581	11048	0.13%	0.007%
242	14.078	14.062	14.106	VV	232	3514	0.04%	0.002%

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243	14.133	14.106	14.148	PV	315	4519	0.05%	0.003%
244	14.182	14.148	14.204	VV	1720	27553	0.32%	0.017%
245	14.228	14.204	14.249	VV	1853	31539	0.37%	0.019%
246	14.270	14.249	14.306	VV	1738	31296	0.36%	0.019%
247	14.310	14.306	14.332	VV	455	5228	0.06%	0.003%
248	14.351	14.332	14.380	VV	1877	27523	0.32%	0.017%
249	14.450	14.380	14.492	VV	2321	65878	0.77%	0.040%
250	14.514	14.492	14.539	VV	2638	40211	0.47%	0.025%
251	14.543	14.539	14.546	VV	601	2238	0.03%	0.001%
252	14.573	14.546	14.601	VV	2794	46166	0.54%	0.028%
253	14.612	14.601	14.625	VV	751	8938	0.10%	0.005%
254	14.664	14.625	14.688	VV	1673	40604	0.47%	0.025%
255	14.698	14.688	14.710	VV	909	11770	0.14%	0.007%
256	14.732	14.710	14.763	VV	6155	80210	0.93%	0.049%
257	14.768	14.763	14.784	VV	274	2042	0.02%	0.001%
258	14.837	14.784	14.855	VV	558689	7515083	87.56%	4.610%
259	14.883	14.855	14.927	VV	673851	8582767	100.00%	5.265%
260	14.934	14.927	14.970	VV	899	13998	0.16%	0.009%
261	14.989	14.970	15.009	VV	1954	23881	0.28%	0.015%
262	15.016	15.009	15.021	VV	268	1909	0.02%	0.001%
263	15.027	15.021	15.045	VV	313	2790	0.03%	0.002%
264	15.068	15.045	15.100	VV	1231	19461	0.23%	0.012%
265	15.124	15.100	15.149	VV	763	12079	0.14%	0.007%
266	15.167	15.149	15.180	VV	589	6835	0.08%	0.004%
267	15.184	15.180	15.197	VV	277	1731	0.02%	0.001%
268	15.270	15.209	15.305	VV	15669	253839	2.96%	0.156%
269	15.322	15.305	15.347	VV	2133	32422	0.38%	0.020%
270	15.375	15.347	15.380	VV	545	8361	0.10%	0.005%
271	15.410	15.380	15.422	VV	3254	49191	0.57%	0.030%
272	15.426	15.422	15.451	VV	2922	33295	0.39%	0.020%
273	15.495	15.451	15.516	VV	2394	47069	0.55%	0.029%
274	15.534	15.516	15.565	VV	1073	20739	0.24%	0.013%
275	15.582	15.565	15.594	VV	694	10066	0.12%	0.006%
276	15.625	15.594	15.647	VV	3041	50534	0.59%	0.031%
277	15.653	15.647	15.700	VV	1240	25870	0.30%	0.016%
278	15.735	15.700	15.753	VV	1070	22296	0.26%	0.014%
279	15.781	15.753	15.814	VV	1104	28715	0.33%	0.018%
280	15.818	15.814	15.835	VV	721	5868	0.07%	0.004%
281	15.850	15.835	15.855	VV	559	5066	0.06%	0.003%
282	15.874	15.855	15.883	VV	868	10916	0.13%	0.007%
283	15.915	15.883	15.953	VV	76587	995152	11.59%	0.610%
284	15.973	15.953	16.010	VV	1126	21303	0.25%	0.013%
285	16.028	16.010	16.040	VV	262	2837	0.03%	0.002%

286	16.111	16.040	16.141	PV	1270	26135	0.30%	0.016%
287	16.166	16.141	16.172	VV	353	3758	0.04%	0.002%
288	16.184	16.172	16.189	VV	200	1715	0.02%	0.001%
289	16.196	16.189	16.207	VV	302	2255	0.03%	0.001%
290	16.213	16.207	16.219	VV	326	1744	0.02%	0.001%
291	16.251	16.219	16.255	VV	321	3984	0.05%	0.002%
292	16.283	16.255	16.338	VV	8028	135605	1.58%	0.083%
293	16.390	16.338	16.405	VV	477309	7144569	83.24%	4.383%
294	16.427	16.405	16.455	VV	574580	7000173	81.56%	4.294%
295	16.474	16.455	16.494	VV	1904	29267	0.34%	0.018%
296	16.514	16.494	16.547	VV	1368	27065	0.32%	0.017%
297	16.600	16.547	16.610	VV	1656	33295	0.39%	0.020%
298	16.628	16.610	16.657	VV	4166	58284	0.68%	0.036%
299	16.698	16.657	16.723	VV	5340	88990	1.04%	0.055%
300	16.772	16.723	16.810	VV	497866	6887929	80.25%	4.225%
301	16.860	16.810	16.890	VV	73282	1008299	11.75%	0.619%
302	16.910	16.890	16.957	VV	5175	93914	1.09%	0.058%
303	16.969	16.957	16.980	VV	516	5714	0.07%	0.004%
304	16.992	16.980	17.043	VV	510	12968	0.15%	0.008%
305	17.096	17.043	17.102	VV	431	6172	0.07%	0.004%
306	17.123	17.102	17.148	VV	557	10365	0.12%	0.006%
307	17.156	17.148	17.175	VV	218	2485	0.03%	0.002%
308	17.187	17.175	17.195	VV	304	1915	0.02%	0.001%
309	17.224	17.195	17.274	VV	3869	73763	0.86%	0.045%
310	17.310	17.274	17.334	VV	2936	49367	0.58%	0.030%
311	17.350	17.334	17.378	VV	1183	22688	0.26%	0.014%
312	17.399	17.378	17.442	VV	901	21840	0.25%	0.013%
313	17.458	17.442	17.467	VV	493	5020	0.06%	0.003%
314	17.475	17.467	17.497	VV	583	4817	0.06%	0.003%
315	17.533	17.497	17.549	PV	553	11219	0.13%	0.007%
316	17.558	17.549	17.563	VV	394	2680	0.03%	0.002%
317	17.574	17.563	17.579	VV	541	3825	0.04%	0.002%
318	17.587	17.579	17.592	VV	479	3339	0.04%	0.002%
319	17.605	17.592	17.614	VV	586	6013	0.07%	0.004%
320	17.639	17.614	17.659	VV	1196	20974	0.24%	0.013%
321	17.679	17.659	17.687	VV	887	12767	0.15%	0.008%
322	17.747	17.687	17.784	VV	68804	975125	11.36%	0.598%
323	17.835	17.784	17.861	VV	3024	72375	0.84%	0.044%
324	17.877	17.861	17.882	VV	824	8789	0.10%	0.005%
325	17.915	17.882	17.927	VV	1333	27073	0.32%	0.017%
326	17.954	17.927	18.007	VV	14882	237262	2.76%	0.146%
327	18.031	18.007	18.055	PV	1708	27881	0.32%	0.017%
328	18.139	18.055	18.153	VV	458052	7556327	88.04%	4.635%
329	18.178	18.153	18.235	VV	493369	6683117	77.87%	4.100%

rteres

330	18.261	18.235	18.268	VV	1848	23335	0.27%	0.014%
331	18.285	18.268	18.341	VV	3096	59285	0.69%	0.036%
332	18.396	18.341	18.444	PV	433693	6405772	74.64%	3.930%
333	18.460	18.444	18.477	VV	490	5959	0.07%	0.004%

Sum of corrected areas: 163012690

Aromatic EPH 090425.M Mon Sep 29 00:59:21 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MS	SDG No.:	Q3176
Lab Sample ID:	Q3178-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016660.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	14.8		0.20	1.40	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	12.5		0.15	0.93	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	13.9		0.18	1.40	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	17.0		0.74	1.86	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	43.9		1.65	2.80	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.9		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3178-02	Acq On:	26 Sep 2025 09:41
Client Sample ID:	EME-TS14-01MS	Operator:	YP\AJ
Data file:	FG016660.D	Misc:	
Instrument:	FID_G	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	18360561	158.961	300	ug/ml
Aliphatic C12-C16	6.921	10.379	16193392	134.259	200	ug/ml
Aliphatic C16-C21	10.380	13.768	19260771	148.974	300	ug/ml
Aliphatic C21-C28	13.769	17.453	23479882	182.241	400	ug/ml
Aliphatic C28-C40	17.454	22.488	47732530	470.646	600	ug/ml
Aliphatic EPH	3.279	22.488	125027136	1100		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.510	13.510	5184437	45.93		ug/ml
Aliphatic C9-C28	3.279	17.453	77294606	624.435	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016660.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:41
Operator : YP\AJ
Sample : Q3178-02MS
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

Integration File: autoint1.e
Quant Time: Sep 27 00:00:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.510	5184437	45.932 ug/ml
Spiked Amount	50.000		Recovery =	91.86%
	Target Compounds			
1) T	n-Nonane (C9)	3.386	4487621	39.545 ug/ml
2) T	n-Decane (C10)	4.646	5021339	43.417 ug/ml
4) T	n-Dodecane (C12)	6.827	5505955	46.908 ug/ml
6) T	n-Tetradecane (C14)	8.668	5837908	49.760 ug/ml
7) T	n-Hexadecane (C16)	10.287	6102971	49.256 ug/ml
8) T	n-Octadecane (C18)	11.741	6146948	47.219 ug/ml
10) T	n-Eicosane (C20)	13.061	6302917	48.756 ug/ml
11) T	n-Heneicosane (C21)	13.678	6028503	46.946 ug/ml
13) T	n-Docosane (C22)	14.268	5964879	46.259 ug/ml
14) T	n-Tetracosane (C24)	15.380	5865234	44.971 ug/ml
15) T	n-Hexacosane (C26)	16.408	5611916	43.474 ug/ml
16) T	n-Octacosane (C28)	17.365	5374368	42.350 ug/ml
17) T	n-Tricontane (C30)	18.259	5307473	41.480 ug/ml
18) T	n-Dotriacontane (C32)	19.098	5196410	42.429 ug/ml
19) T	n-Tetratriacontane (C34)	19.887	5070798	46.677 ug/mlm
20) T	n-Hexatriacontane (C36)	20.632	4934214	54.299 ug/mlm
21) T	n-Octatriacontane (C38)	21.414	4966054	60.977 ug/ml
22) T	n-Tetracontane (C40)	22.409	4770153	61.838 ug/ml

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

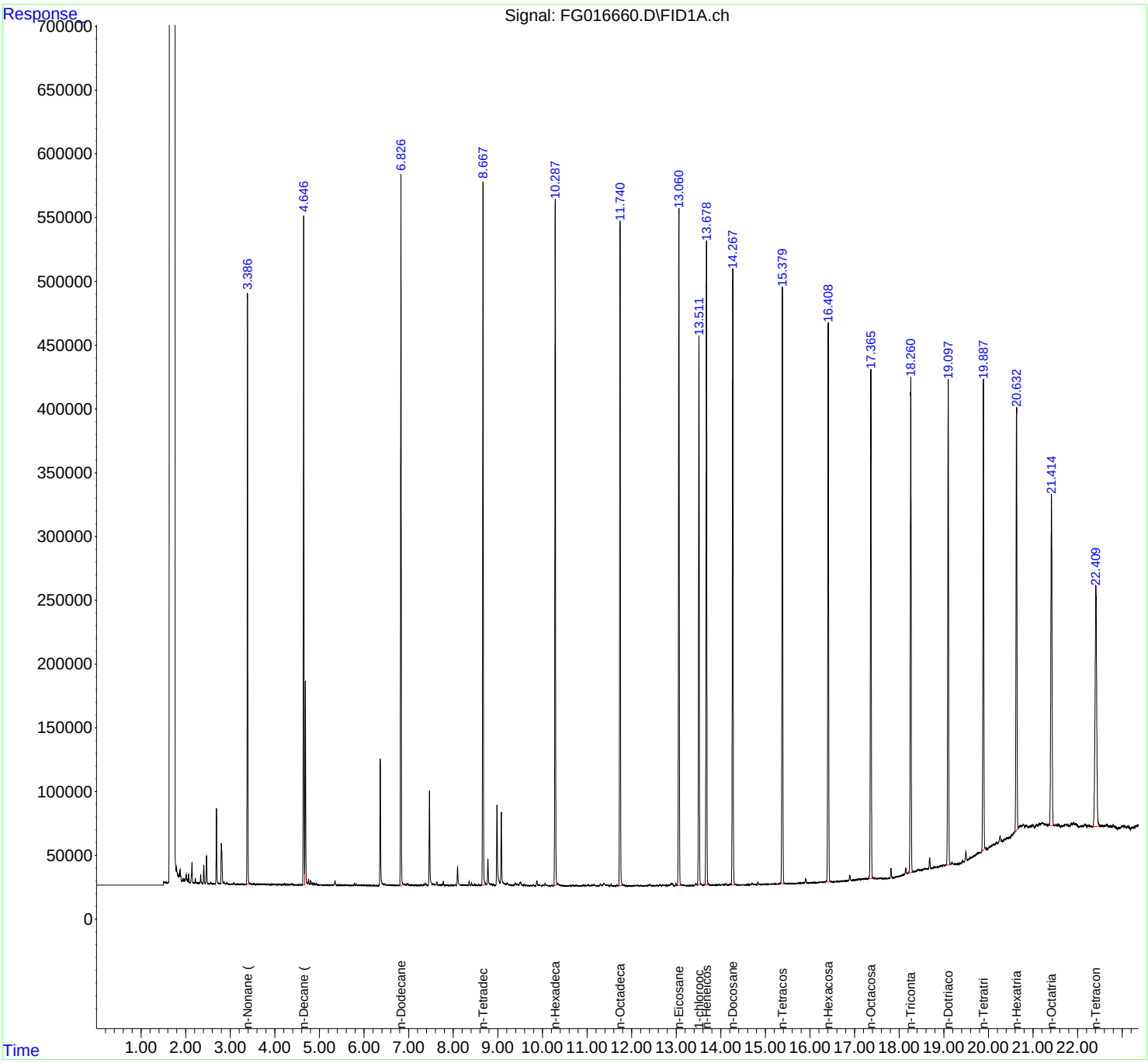
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016660.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:41
Operator : YP\AJ
Sample : Q3178-02MS
Misc :
ALS Vial : 41 Sample Multiplier: 1

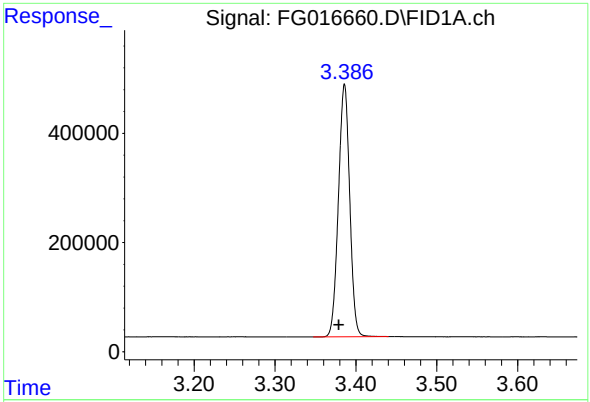
Integration File: autoint1.e
Quant Time: Sep 27 00:00:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025





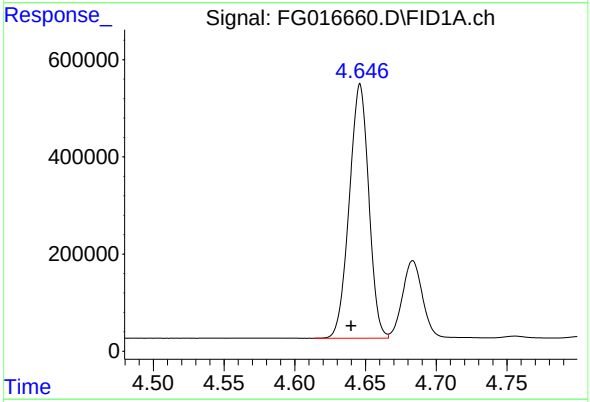
#1 n-Nonane (C9)

R.T.: 3.386 min
Delta R.T.: 0.007 min
Response: 4487621
Conc: 39.55 ug/ml

Instrument :
FID_G
ClientSampleId :

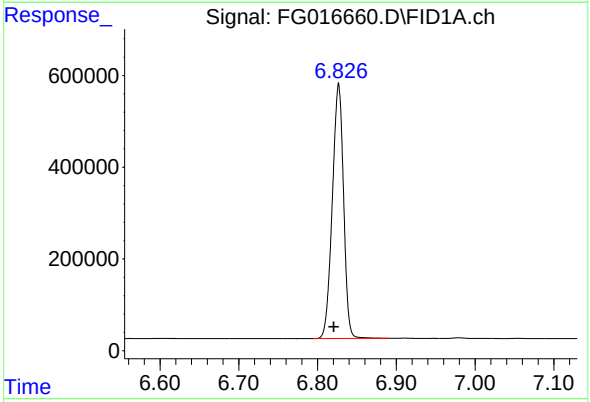
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025



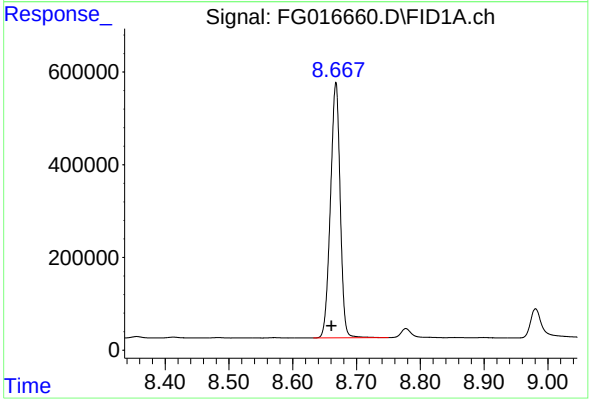
#2 n-Decane (C10)

R.T.: 4.646 min
Delta R.T.: 0.006 min
Response: 5021339
Conc: 43.42 ug/ml



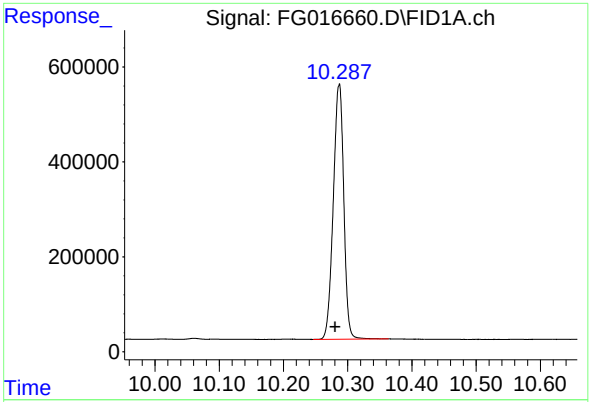
#4 n-Dodecane (C12)

R.T.: 6.827 min
Delta R.T.: 0.006 min
Response: 5505955
Conc: 46.91 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.668 min
Delta R.T.: 0.007 min
Response: 5837908
Conc: 49.76 ug/ml



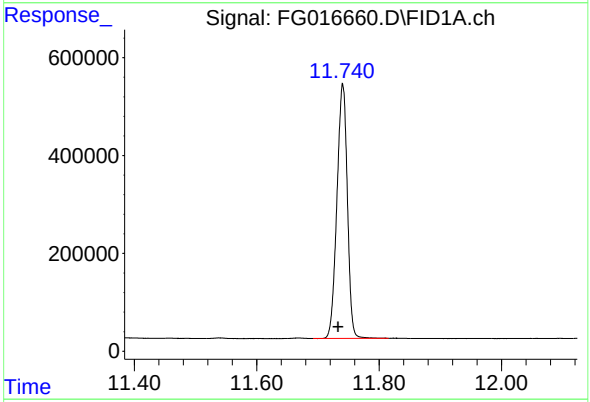
#7 n-Hexadecane (C16)

R.T.: 10.287 min
Delta R.T.: 0.006 min
Response: 6102971
Conc: 49.26 ug/ml

Instrument :
FID_G
ClientSampleId :

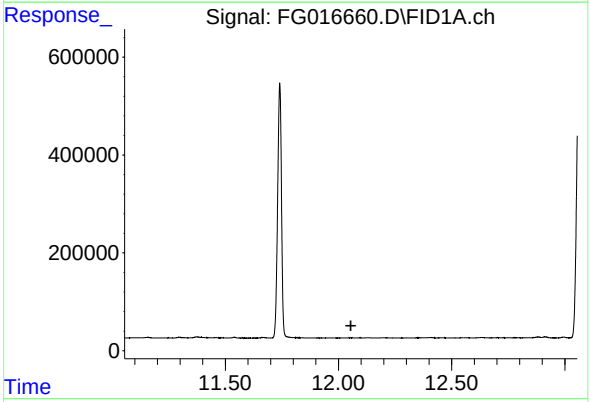
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025



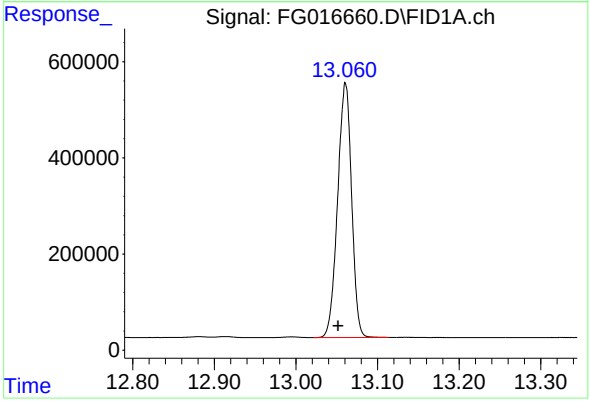
#8 n-Octadecane (C18)

R.T.: 11.741 min
Delta R.T.: 0.008 min
Response: 6146948
Conc: 47.22 ug/ml



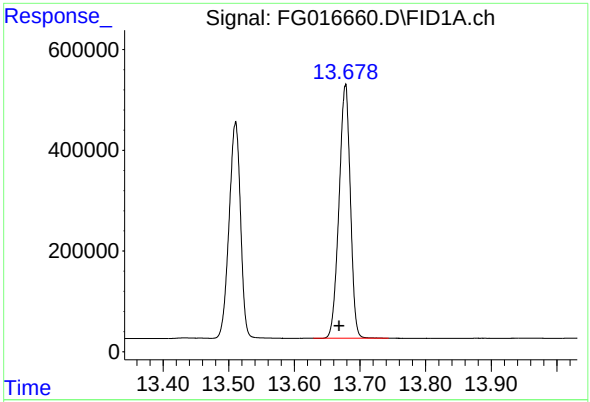
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.009 min
Response: 6302917
Conc: 48.76 ug/ml



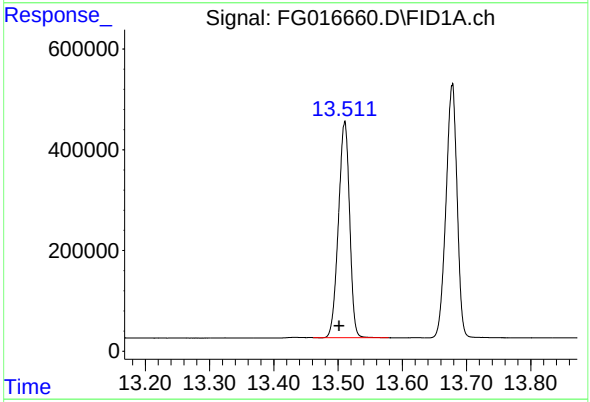
#11 n-Heneicosane (C21)

R.T.: 13.678 min
Delta R.T.: 0.010 min
Response: 6028503
Conc: 46.95 ug/ml

Instrument :
FID_G
ClientSampleId :

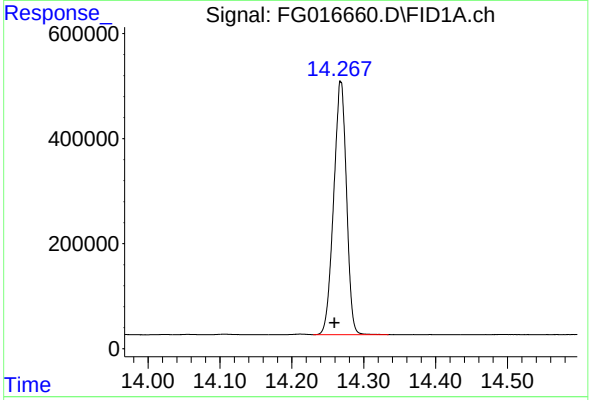
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025



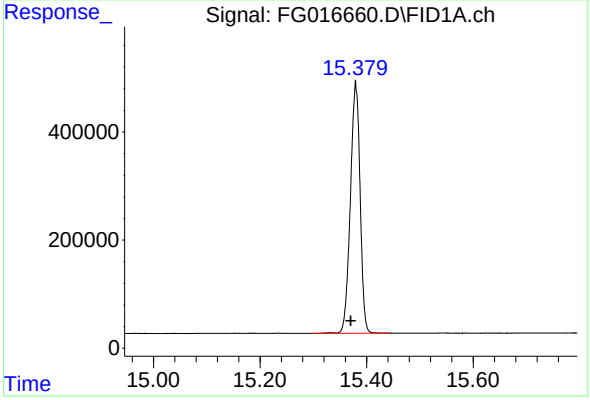
#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min
Delta R.T.: 0.009 min
Response: 5184437
Conc: 45.93 ug/ml



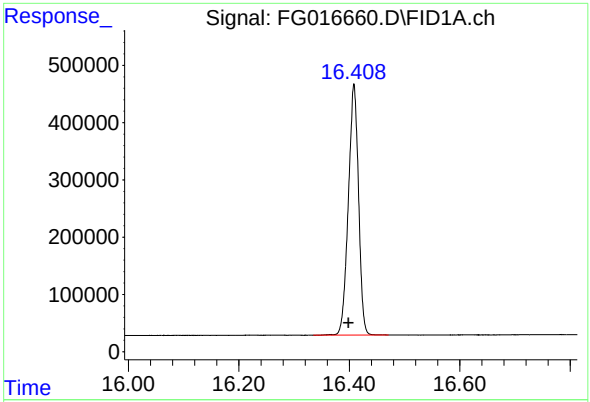
#13 n-Docosane (C22)

R.T.: 14.268 min
Delta R.T.: 0.009 min
Response: 5964879
Conc: 46.26 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.380 min
Delta R.T.: 0.009 min
Response: 5865234
Conc: 44.97 ug/ml



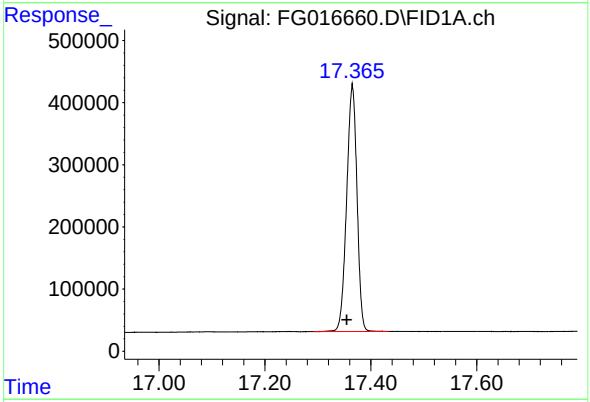
#15 n-Hexacosane (C26)

R.T.: 16.408 min
Delta R.T.: 0.010 min
Response: 5611916
Conc: 43.47 ug/ml

Instrument :
FID_G
ClientSampleId :

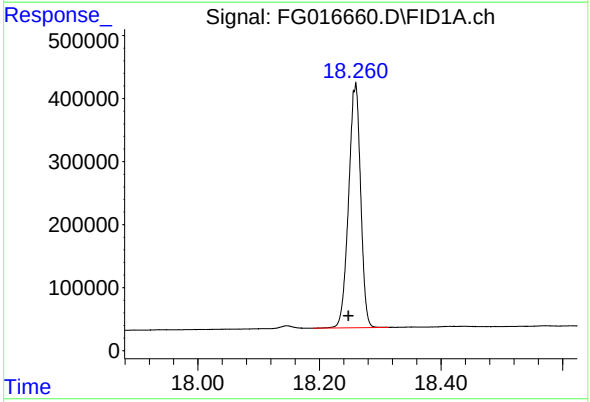
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025



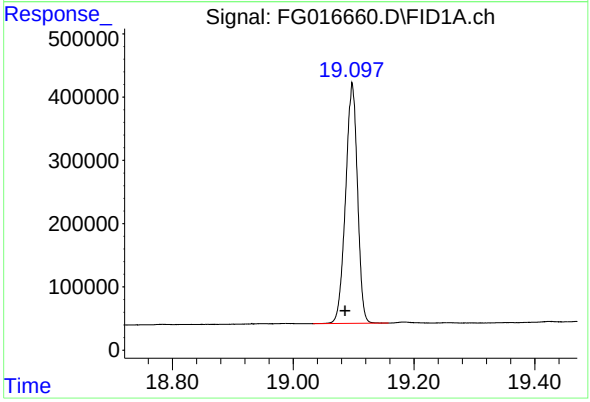
#16 n-Octacosane (C28)

R.T.: 17.365 min
Delta R.T.: 0.011 min
Response: 5374368
Conc: 42.35 ug/ml



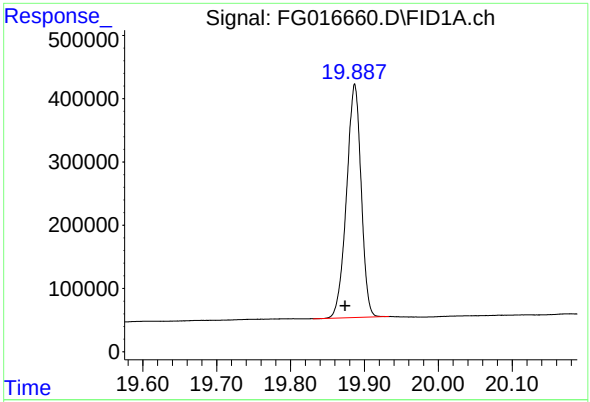
#17 n-Tricontane (C30)

R.T.: 18.259 min
Delta R.T.: 0.012 min
Response: 5307473
Conc: 41.48 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 19.098 min
Delta R.T.: 0.012 min
Response: 5196410
Conc: 42.43 ug/ml



#19 n-Tetratriacontane (C34)

R.T.: 19.887 min
Delta R.T.: 0.013 min
Response: 5070798
Conc: 46.68 ug/ml

Instrument :
FID_G
ClientSampleId :

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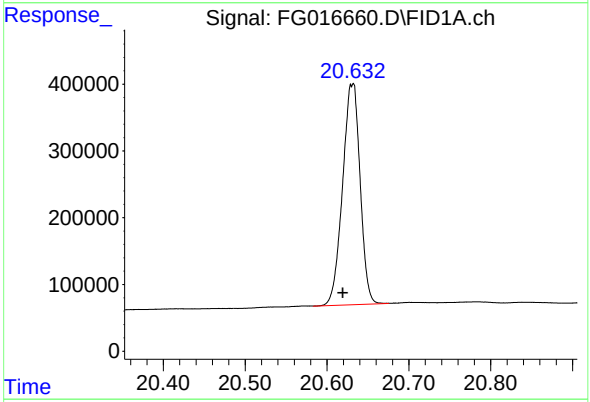
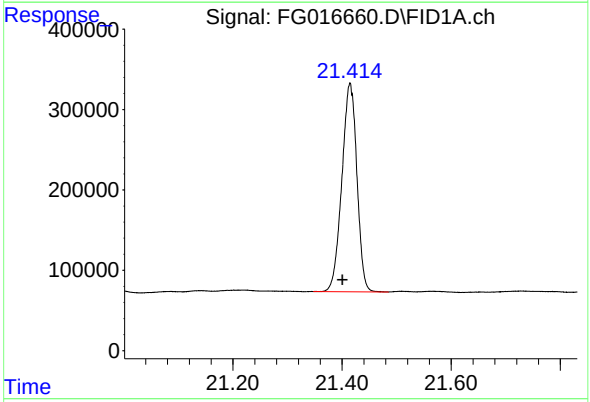


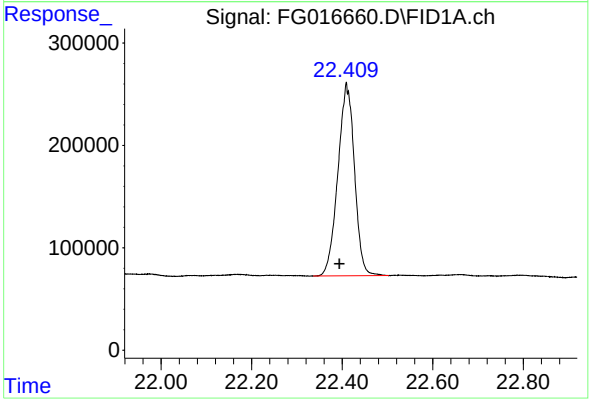
#20 n-Hexatriacontane (C36)

R.T.: 20.632 min
Delta R.T.: 0.013 min
Response: 4934214
Conc: 54.30 ug/ml m



#21 n-Octatriacontane (C38)

R.T.: 21.414 min
Delta R.T.: 0.013 min
Response: 4966054
Conc: 60.98 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.409 min
Delta R.T.: 0.015 min
Response: 4770153
Conc: 61.84 ug/ml

Instrument :
FID_G
ClientSampleId :

rteres

Area Percent Report

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Supervised By :Sohil Jodhani 10/02/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016660.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 09:41
Sample : Q3178-02MS
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.254	3.222	3.306	BV	245	4510	0.07%	0.003%
2	3.339	3.306	3.352	PV	123	1815	0.03%	0.001%
3	3.386	3.352	3.514	VV	460038	4529121	67.20%	3.476%
4	3.531	3.514	3.581	VV	506	13088	0.19%	0.010%
5	3.598	3.581	3.618	VV	376	6227	0.09%	0.005%
6	3.631	3.618	3.657	VV	380	6094	0.09%	0.005%
7	3.671	3.657	3.685	VV	280	3354	0.05%	0.003%
8	3.702	3.685	3.710	VV	419	4312	0.06%	0.003%
9	3.722	3.710	3.732	VV	465	5062	0.08%	0.004%
10	3.745	3.732	3.805	VV	491	15135	0.22%	0.012%
11	3.836	3.805	3.860	VV	243	5712	0.08%	0.004%
12	3.897	3.860	3.930	VV	242	5692	0.08%	0.004%
13	3.973	3.930	3.995	VV	236	5317	0.08%	0.004%
14	4.001	3.995	4.018	VV	189	1885	0.03%	0.001%
15	4.030	4.018	4.062	VV	157	2813	0.04%	0.002%
16	4.071	4.062	4.118	VV	178	3555	0.05%	0.003%
17	4.129	4.118	4.151	VV	98	1467	0.02%	0.001%
18	4.183	4.151	4.198	VV	491	6092	0.09%	0.005%
19	4.216	4.198	4.278	VV	876	13302	0.20%	0.010%
20	4.293	4.278	4.338	VV	271	4261	0.06%	0.003%
21	4.388	4.338	4.510	VV	674	16956	0.25%	0.013%
22	4.522	4.510	4.532	VV	93	767	0.01%	0.001%
23	4.541	4.532	4.585	VV	113	3549	0.05%	0.003%
24	4.593	4.585	4.612	VV	150	1627	0.02%	0.001%
25	4.646	4.612	4.666	VV	517929	5025136	74.56%	3.857%
26	4.684	4.666	4.737	VV	159172	1602025	23.77%	1.230%
27	4.756	4.737	4.785	VV	4477	56541	0.84%	0.043%
28	4.802	4.785	4.820	VV	3585	40123	0.60%	0.031%
29	4.833	4.820	4.849	VV	1286	15848	0.24%	0.012%
30	4.865	4.849	4.883	VV	1976	22670	0.34%	0.017%
31	4.896	4.883	4.912	VV	998	11616	0.17%	0.009%

Instrument :
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rteres

32	4.930	4.912	4.978	VV	1754	25349	0.38%	0.019%
33	5.010	4.978	5.042	VV	273	825		
34	5.060	5.042	5.121	VV	337	946		
35	5.159	5.121	5.195	VV	307	773		
36	5.210	5.195	5.217	VV	153	163		
37	5.262	5.217	5.292	VV	218	6506	0.10%	0.005%
38	5.349	5.292	5.382	VV	3523	48901	0.73%	0.038%
39	5.411	5.382	5.447	VV	751	11086	0.16%	0.009%
40	5.466	5.447	5.507	VV	181	4027	0.06%	0.003%
41	5.522	5.507	5.548	VV	130	2453	0.04%	0.002%
42	5.561	5.548	5.579	VV	236	2935	0.04%	0.002%
43	5.595	5.579	5.622	VV	167	2865	0.04%	0.002%
44	5.632	5.622	5.647	VV	132	1107	0.02%	0.001%
45	5.669	5.647	5.679	VV	121	1583	0.02%	0.001%
46	5.685	5.679	5.702	VV	110	840	0.01%	0.001%
47	5.726	5.702	5.736	PV	116	1492	0.02%	0.001%
48	5.750	5.736	5.763	VV	150	1775	0.03%	0.001%
49	5.787	5.763	5.815	VV	1861	22640	0.34%	0.017%
50	5.831	5.815	5.873	VV	1143	14054	0.21%	0.011%
51	5.892	5.873	5.928	VV	329	5433	0.08%	0.004%
52	5.975	5.928	6.025	VV	384	9205	0.14%	0.007%
53	6.036	6.025	6.075	VV	66	2230	0.03%	0.002%
54	6.099	6.075	6.127	VV	325	5356	0.08%	0.004%
55	6.137	6.127	6.145	VV	107	1145	0.02%	0.001%
56	6.156	6.145	6.192	VV	197	3444	0.05%	0.003%
57	6.197	6.192	6.247	VV	154	3208	0.05%	0.002%
58	6.272	6.247	6.297	PV	202	2993	0.04%	0.002%
59	6.322	6.297	6.335	VV	193	2447	0.04%	0.002%
60	6.363	6.335	6.452	VV	98608	1059905	15.73%	0.813%
61	6.468	6.452	6.499	VV	1508	25615	0.38%	0.020%
62	6.532	6.499	6.577	VV	880	25582	0.38%	0.020%
63	6.606	6.577	6.637	VV	565	16363	0.24%	0.013%
64	6.648	6.637	6.673	VV	425	7301	0.11%	0.006%
65	6.698	6.673	6.727	VV	375	9778	0.15%	0.008%
66	6.747	6.727	6.766	VV	348	6428	0.10%	0.005%
67	6.827	6.766	6.898	VV	555749	5547962	82.32%	4.258%
68	6.911	6.898	6.932	VV	1336	20294	0.30%	0.016%
69	6.948	6.932	6.960	VV	887	12703	0.19%	0.010%
70	6.979	6.960	7.002	VV	2096	29347	0.44%	0.023%
71	7.015	7.002	7.037	VV	772	12569	0.19%	0.010%
72	7.054	7.037	7.082	VV	899	13675	0.20%	0.010%
73	7.108	7.082	7.138	VV	387	10752	0.16%	0.008%
74	7.155	7.138	7.185	VV	507	9636	0.14%	0.007%
75	7.196	7.185	7.222	VV	316	6281	0.09%	0.005%
76	7.235	7.222	7.260	VV	287	5166	0.08%	0.004%
77	7.282	7.260	7.318	VV	811	12682	0.19%	0.010%
78	7.338	7.318	7.350	VV	1007	13057	0.19%	0.010%
79	7.370	7.350	7.430	VV	2125	46136	0.68%	0.035%

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80	7.466	7.430	7.534	VV	74451	864992	12.83%	0.664%
81	7.549	7.534	7.591	VV	1571	3868		
82	7.605	7.591	7.614	VV	891	1069		
83	7.633	7.614	7.678	VV	3085	4775		
84	7.694	7.678	7.723	VV	683	1529		
85	7.741	7.723	7.754	VV	766	11642	0.17%	0.009%
86	7.777	7.754	7.803	VV	3706	45837	0.68%	0.035%
87	7.815	7.803	7.825	VV	464	4887	0.07%	0.004%
88	7.841	7.825	7.856	VV	677	9097	0.13%	0.007%
89	7.870	7.856	7.889	VV	801	10124	0.15%	0.008%
90	7.910	7.889	7.923	VV	347	5716	0.08%	0.004%
91	7.955	7.923	7.978	VV	758	14410	0.21%	0.011%
92	7.993	7.978	8.020	VV	431	7003	0.10%	0.005%
93	8.044	8.020	8.065	VV	1194	16314	0.24%	0.013%
94	8.096	8.065	8.193	VV	14429	208581	3.09%	0.160%
95	8.213	8.193	8.229	VV	798	14124	0.21%	0.011%
96	8.241	8.229	8.255	VV	724	9430	0.14%	0.007%
97	8.267	8.255	8.288	VV	641	9926	0.15%	0.008%
98	8.309	8.288	8.332	VV	712	12055	0.18%	0.009%
99	8.355	8.332	8.383	VV	3447	43395	0.64%	0.033%
100	8.413	8.383	8.461	VV	2098	39474	0.59%	0.030%
101	8.483	8.461	8.504	VV	1196	17124	0.25%	0.013%
102	8.523	8.504	8.552	VV	525	12519	0.19%	0.010%
103	8.571	8.552	8.597	VV	1061	16416	0.24%	0.013%
104	8.619	8.597	8.631	VV	528	8796	0.13%	0.007%
105	8.668	8.631	8.748	VV	554608	5891990	87.42%	4.522%
106	8.778	8.748	8.839	VV	20700	281651	4.18%	0.216%
107	8.856	8.839	8.881	VV	1340	27687	0.41%	0.021%
108	8.898	8.881	8.934	VV	1341	26736	0.40%	0.021%
109	8.981	8.934	9.055	VV	63219	876818	13.01%	0.673%
110	9.078	9.055	9.149	VV	57503	703375	10.44%	0.540%
111	9.159	9.149	9.187	VV	1712	32800	0.49%	0.025%
112	9.209	9.187	9.255	VV	2553	61044	0.91%	0.047%
113	9.271	9.255	9.305	VV	952	21130	0.31%	0.016%
114	9.327	9.305	9.346	VV	746	14396	0.21%	0.011%
115	9.395	9.346	9.415	VV	2403	49879	0.74%	0.038%
116	9.431	9.415	9.468	VV	1488	34649	0.51%	0.027%
117	9.512	9.468	9.567	VV	2784	86235	1.28%	0.066%
118	9.587	9.567	9.613	VV	1002	16805	0.25%	0.013%
119	9.634	9.613	9.668	VV	561	11165	0.17%	0.009%
120	9.686	9.668	9.700	VV	340	5009	0.07%	0.004%
121	9.719	9.700	9.732	VV	410	6411	0.10%	0.005%
122	9.739	9.732	9.767	VV	455	7304	0.11%	0.006%
123	9.800	9.767	9.844	VV	761	18028	0.27%	0.014%
124	9.876	9.844	9.908	VV	4090	65341	0.97%	0.050%
125	9.919	9.908	9.948	VV	954	15626	0.23%	0.012%
126	9.960	9.948	9.988	VV	500	8367	0.12%	0.006%

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127	10.013	9.988	10.042	VV	871	16767	0.25%	0.013%
128	10.061	10.042	10.081	VV	2365	2867		
129	10.092	10.081	10.167	VV	680	1554		
130	10.180	10.167	10.184	VV	181	133		
131	10.205	10.184	10.246	VV	615	1309		
132	10.287	10.246	10.488	VV	544016	6189234	91.83%	4.750%
133	10.502	10.488	10.513	VV	188	2067	0.03%	0.002%
134	10.529	10.513	10.548	VV	153	2452	0.04%	0.002%
135	10.567	10.548	10.579	VV	317	4017	0.06%	0.003%
136	10.607	10.579	10.623	VV	414	7638	0.11%	0.006%
137	10.632	10.623	10.644	VV	278	3068	0.05%	0.002%
138	10.680	10.644	10.702	VV	730	14461	0.21%	0.011%
139	10.721	10.702	10.739	VV	539	9078	0.13%	0.007%
140	10.767	10.739	10.788	VV	413	9314	0.14%	0.007%
141	10.810	10.788	10.835	VV	394	6831	0.10%	0.005%
142	10.838	10.835	10.858	VV	215	1978	0.03%	0.002%
143	10.891	10.858	10.904	VV	457	7297	0.11%	0.006%
144	10.924	10.904	10.945	VV	479	8473	0.13%	0.007%
145	10.963	10.945	10.992	VV	627	13126	0.19%	0.010%
146	11.029	10.992	11.065	VV	1112	22640	0.34%	0.017%
147	11.115	11.065	11.131	VV	591	18427	0.27%	0.014%
148	11.158	11.131	11.210	VV	1325	27775	0.41%	0.021%
149	11.249	11.210	11.268	VV	340	9147	0.14%	0.007%
150	11.296	11.268	11.334	VV	1740	32374	0.48%	0.025%
151	11.374	11.334	11.438	VV	2443	69743	1.03%	0.054%
152	11.457	11.438	11.476	VV	845	14771	0.22%	0.011%
153	11.486	11.476	11.512	VV	461	6239	0.09%	0.005%
154	11.539	11.512	11.582	VV	1414	19151	0.28%	0.015%
155	11.599	11.582	11.615	VV	152	1704	0.03%	0.001%
156	11.668	11.615	11.699	PV	1185	17539	0.26%	0.013%
157	11.740	11.699	11.816	VV	521842	6176292	91.64%	4.740%
158	11.825	11.816	11.873	VV	708	15264	0.23%	0.012%
159	11.891	11.873	11.925	VV	224	4048	0.06%	0.003%
160	11.974	11.925	11.992	VV	183	4701	0.07%	0.004%
161	12.057	11.992	12.078	VV	366	10095	0.15%	0.008%
162	12.095	12.078	12.114	VV	391	6836	0.10%	0.005%
163	12.132	12.114	12.162	VV	573	10589	0.16%	0.008%
164	12.199	12.162	12.241	VV	514	14076	0.21%	0.011%
165	12.256	12.241	12.276	VV	134	1779	0.03%	0.001%
166	12.408	12.276	12.437	PV	1033	35625	0.53%	0.027%
167	12.460	12.437	12.485	VV	476	8827	0.13%	0.007%
168	12.512	12.485	12.532	VV	307	5660	0.08%	0.004%
169	12.552	12.532	12.598	VV	469	12514	0.19%	0.010%
170	12.632	12.598	12.668	VV	1053	23305	0.35%	0.018%
171	12.704	12.668	12.733	VV	648	16754	0.25%	0.013%
172	12.748	12.733	12.764	VV	493	6834	0.10%	0.005%
173	12.782	12.764	12.805	VV	609	10473	0.16%	0.008%
174	12.881	12.805	12.897	VV	2179	44586	0.66%	0.034%

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Instrument :
FID_G
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175	12.913	12.897	12.943	VV	2272	33581	0.50%	0.026%
176	12.952	12.943	12.966	VV	205	263		
177	12.995	12.966	13.020	VV	1671	2456		
178	13.061	13.020	13.118	VV	532630	632195		
179	13.135	13.118	13.163	VV	671	1436		
180	13.172	13.163	13.222	VV	330	6977	0.10%	0.005%
181	13.253	13.222	13.288	VV	115	2469	0.04%	0.002%
182	13.326	13.288	13.368	PV	286	7119	0.11%	0.005%
183	13.376	13.368	13.404	VV	114	1547	0.02%	0.001%
184	13.433	13.404	13.475	PV	1366	32236	0.48%	0.025%
185	13.510	13.475	13.605	VV	431297	5230032	77.60%	4.014%
186	13.623	13.605	13.637	VV	539	8527	0.13%	0.007%
187	13.678	13.637	13.792	VV	507590	6067222	90.02%	4.657%
188	13.798	13.792	13.846	VV	238	4321	0.06%	0.003%
189	13.884	13.846	13.918	VV	292	7033	0.10%	0.005%
190	13.949	13.918	13.960	VV	415	7018	0.10%	0.005%
191	13.965	13.960	13.992	VBA	375	3630	0.05%	0.003%
192	14.023	13.992	14.037	BV	407	4513	0.07%	0.003%
193	14.056	14.037	14.082	VV	664	8285	0.12%	0.006%
194	14.107	14.082	14.149	VV	955	15861	0.24%	0.012%
195	14.212	14.149	14.230	VV	1202	18126	0.27%	0.014%
196	14.268	14.230	14.382	VV	485185	5979091	88.72%	4.589%
197	14.393	14.382	14.431	VV	197	2998	0.04%	0.002%
198	14.497	14.431	14.542	PV	188	6910	0.10%	0.005%
199	14.603	14.542	14.625	VV	135	3837	0.06%	0.003%
200	14.632	14.625	14.640	VV	99	500	0.01%	0.000%
201	14.656	14.640	14.664	VV	94	848	0.01%	0.001%
202	14.705	14.664	14.751	VV	1345	22083	0.33%	0.017%
203	14.790	14.751	14.807	VV	194	4425	0.07%	0.003%
204	14.831	14.807	14.874	VV	1887	24457	0.36%	0.019%
205	14.899	14.874	14.912	PV	151	1857	0.03%	0.001%
206	14.928	14.912	14.941	VV	191	2624	0.04%	0.002%
207	14.968	14.941	15.002	VV	224	5421	0.08%	0.004%
208	15.041	15.002	15.065	VV	150	2916	0.04%	0.002%
209	15.093	15.065	15.107	PV	223	3535	0.05%	0.003%
210	15.123	15.107	15.142	VV	271	4447	0.07%	0.003%
211	15.154	15.142	15.175	VV	296	4897	0.07%	0.004%
212	15.184	15.175	15.210	VV	287	4097	0.06%	0.003%
213	15.233	15.210	15.272	VV	320	4633	0.07%	0.004%
214	15.332	15.272	15.341	PV	1113	14140	0.21%	0.011%
215	15.380	15.341	15.495	VV	458467	5872216	87.13%	4.507%
216	15.512	15.495	15.521	VV	164	1823	0.03%	0.001%
217	15.542	15.521	15.575	VV	312	6590	0.10%	0.005%
218	15.585	15.575	15.607	VV	176	2261	0.03%	0.002%
219	15.626	15.607	15.669	VV	137	3477	0.05%	0.003%
220	15.715	15.669	15.732	PV	206	4421	0.07%	0.003%
221	15.818	15.732	15.832	VV	137	7641	0.11%	0.006%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

Instrument :
FID_G
ClientSampleId :

rteres

222	15.900	15.832	15.938	VV	3368	51477	0.76%	0.040%
223	15.956	15.938	15.975	VV	185	275		
224	16.087	15.975	16.102	VV	129	733		
225	16.151	16.102	16.157	VV	93	270		
226	16.168	16.157	16.182	VV	108	117		
227	16.223	16.182	16.241	PV	314	5812	0.09%	0.004%
228	16.275	16.241	16.288	VV	197	4960	0.07%	0.004%
229	16.305	16.288	16.318	VV	146	2078	0.03%	0.002%
230	16.408	16.318	16.527	VV	438354	5629963	83.53%	4.321%
231	16.618	16.527	16.636	PV	182	4984	0.07%	0.004%
232	16.783	16.636	16.802	VV	309	15611	0.23%	0.012%
233	16.816	16.802	16.824	VV	180	2231	0.03%	0.002%
234	16.849	16.824	16.861	VV	414	6535	0.10%	0.005%
235	16.891	16.861	16.934	VV	4225	67342	1.00%	0.052%
236	16.969	16.934	16.995	VV	580	16200	0.24%	0.012%
237	17.093	16.995	17.129	VV	1106	55947	0.83%	0.043%
238	17.135	17.129	17.145	VV	719	6659	0.10%	0.005%
239	17.190	17.145	17.212	VV	934	33066	0.49%	0.025%
240	17.245	17.212	17.268	VV	1136	32400	0.48%	0.025%
241	17.365	17.268	17.452	VV	396083	5469726	81.16%	4.198%
242	17.457	17.452	17.491	VV	862	17680	0.26%	0.014%
243	17.510	17.491	17.532	VV	677	14873	0.22%	0.011%
244	17.558	17.532	17.587	VV	675	19187	0.28%	0.015%
245	17.619	17.587	17.641	VV	488	13387	0.20%	0.010%
246	17.656	17.641	17.672	VV	333	4224	0.06%	0.003%
247	17.689	17.672	17.727	VV	356	6781	0.10%	0.005%
248	17.816	17.727	17.865	PV	7671	106088	1.57%	0.081%
249	17.868	17.865	17.875	VV	137	483	0.01%	0.000%
250	17.898	17.875	17.908	PV	254	2972	0.04%	0.002%
251	17.947	17.908	17.960	VV	441	9229	0.14%	0.007%
252	18.146	17.960	18.188	VV	5301	147443	2.19%	0.113%
253	18.259	18.188	18.325	VV	383128	5415296	80.35%	4.156%
254	18.353	18.325	18.372	VV	1750	45179	0.67%	0.035%
255	18.416	18.372	18.425	VV	2330	59683	0.89%	0.046%
256	18.439	18.425	18.475	VV	2246	56002	0.83%	0.043%
257	18.571	18.475	18.595	VV	2168	112450	1.67%	0.086%
258	18.615	18.595	18.631	VV	1677	34147	0.51%	0.026%
259	18.682	18.631	18.715	VV	9681	179094	2.66%	0.137%
260	18.784	18.715	18.802	VV	1739	71012	1.05%	0.055%
261	18.859	18.802	18.875	VV	1243	53594	0.80%	0.041%
262	18.949	18.875	18.968	VV	1647	72425	1.07%	0.056%
263	18.988	18.968	19.019	VV	1715	43684	0.65%	0.034%
264	19.098	19.019	19.157	VV	380103	5284971	78.42%	4.056%
265	19.184	19.157	19.232	VV	2518	62650	0.93%	0.048%
266	19.256	19.232	19.278	VV	935	18683	0.28%	0.014%
267	19.295	19.278	19.314	VV	275	4157	0.06%	0.003%
268	19.361	19.314	19.372	PV	274	4352	0.06%	0.003%
269	19.425	19.372	19.446	VV	1413	29634	0.44%	0.023%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

Instrument :
FID_G
ClientSampleId :

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

rteres

270	19.494	19.446	19.522	VV	8174	144269	2.14%	0.111%
271	19.608	19.522	19.628	VV	2651	12319		
272	19.802	19.628	19.817	VV	4692	42240		
273	19.887	19.817	19.978	VV	374956	564121		
274	20.119	19.978	20.132	VV	8040	66392		
275	20.178	20.132	20.202	VV	9171	355880	5.28%	0.273%
276	20.260	20.202	20.298	VV	13064	586084	8.70%	0.450%
277	20.422	20.298	20.441	VV	10564	842772	12.50%	0.647%
278	20.631	20.441	20.677	VV	345615	6739659	100.00%	5.173%
279	20.703	20.677	20.735	VV	17534	598870	8.89%	0.460%
280	20.783	20.735	20.815	VV	17710	814068	12.08%	0.625%
281	20.842	20.815	20.891	VV	16450	721491	10.71%	0.554%
282	20.951	20.891	20.968	VV	15061	689596	10.23%	0.529%
283	20.998	20.968	21.032	VV	15995	564241	8.37%	0.433%
284	21.085	21.032	21.107	VV	14614	640411	9.50%	0.492%
285	21.139	21.107	21.164	VV	15145	494854	7.34%	0.380%
286	21.220	21.164	21.292	VV	15121	1093809	16.23%	0.840%
287	21.300	21.292	21.331	VV	12948	301990	4.48%	0.232%
288	21.415	21.331	21.485	VV	270834	6009751	89.17%	4.613%
289	21.509	21.485	21.538	VV	10938	341330	5.06%	0.262%
290	21.564	21.538	21.618	VV	10434	470803	6.99%	0.361%
291	21.654	21.618	21.665	VV	8754	242181	3.59%	0.186%
292	21.729	21.665	21.825	VV	9349	810080	12.02%	0.622%
293	21.860	21.825	21.877	VV	8530	251600	3.73%	0.193%
294	21.907	21.877	21.954	VV	8363	365259	5.42%	0.280%
295	21.974	21.954	22.035	VV	7271	288816	4.29%	0.222%
296	22.074	22.035	22.091	VV	4855	157293	2.33%	0.121%
297	22.166	22.091	22.218	VV	5088	343138	5.09%	0.263%
298	22.242	22.218	22.271	VV	3574	107924	1.60%	0.083%
299	22.281	22.271	22.328	VV	2952	89100	1.32%	0.068%
300	22.410	22.328	22.508	VV	188308	4927157	73.11%	3.782%
301	22.527	22.508	22.585	VV	1111	28829	0.43%	0.022%

Sum of corrected areas: 130290507

Aliphatic EPH 092425.M Sat Sep 27 00:30:56 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3176
Lab Sample ID:	Q3178-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049769.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.06		0.17	0.93	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.5		0.32	1.40	mg/kg
Aromatic C16-C21	Aromatic C16-C21	34.4		0.56	2.33	mg/kg
Aromatic C21-C36	Aromatic C21-C36	53.0		1.67	3.73	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.0		40 - 140	84%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	33.4		40 - 140	67%	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:	Q3178-03	Acq On:	26 Sep 2025 12:07
Client Sample ID:	EME-TS14-01MSD	Operator:	YP/AJ
Data file:	FD049769.D	Misc:	
Instrument:	FID_D	ALS Vial:	59
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.389	6.132	11266947	97.082	200	ug/ml
Aromatic C12-C16	6.133	8.761	22549529	165.969	300	ug/ml
Aromatic C16-C21	8.762	13.054	50079639	368.855	500	ug/ml
Aromatic C21-C36	13.055	18.477	67124997	567.308	800	ug/ml
Aromatic EPH	4.389	18.477	151021112	1200		ug/ml
2-Flurobiphenyl (SURR)	8.564	8.564	2680542	33.39		ug/ml
ortho-Terphenyl (SURR)	11.611	11.611	4715597	33.33		ug/ml
2-Bromonaphthalene (SURR)	7.699	7.699	4722924	42		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049769.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 12:07
Operator : YP/AJ
Sample : Q3178-01MSD
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 29 00:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 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...	7.699	4722924	41.995 ug/ml
Spiked Amount 50.000		Recovery = 83.99%	
6) S 2-Flurobiphenyl (SURR)	8.564	2680542	33.394 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery = 66.79%	
11) S ortho-Terphenyl (SURR)	11.611	4715597	33.330 ug/ml
Spiked Amount 50.000		Recovery = 66.66%	
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.491	4176511	38.760 ug/ml
2) T Naphthalene (C11.7)	6.034	5498972	44.218 ug/ml
3) T 2-Methylnaphthalene (...	7.088	5532726	42.451 ug/ml
5) T Acenaphthylene (C15.06)	8.369	7257198	52.345 ug/ml
7) T Acenaphthene (C15.5)	8.666	6859399	49.482 ug/ml
8) T Flouorene (C16.55)	9.449	7855312	56.630 ug/ml
9) T Phenanthrene (C19.36)	10.848	8109854	58.217 ug/ml
10) T Anthracene (C19.43)	10.924	7861339	59.537 ug/ml
12) T Fluoranthene (C21.85)	12.665	8109657	60.218 ug/ml
13) T Pyrene (C20.8)	12.963	8082512	60.760 ug/ml
14) T Benzo[a]anthracene (C...	14.836	7474740	62.505 ug/ml
15) T Chrysene (C27.41)	14.882	8522353	70.055 ug/ml
16) T benzo[b]fluoranthene ...	16.390	7131225	59.492 ug/ml
17) T Bnezo[k]fluoranthene ...	16.426	6915785	61.378 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.771	6816443	58.088 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.139	7578145	69.658 ug/ml
20) T Dibenz[a,h]anthracene...	18.178	6618312	58.081 ug/ml
21) T Benzo[g,h,i]perylene ...	18.395	6387183	54.893 ug/ml

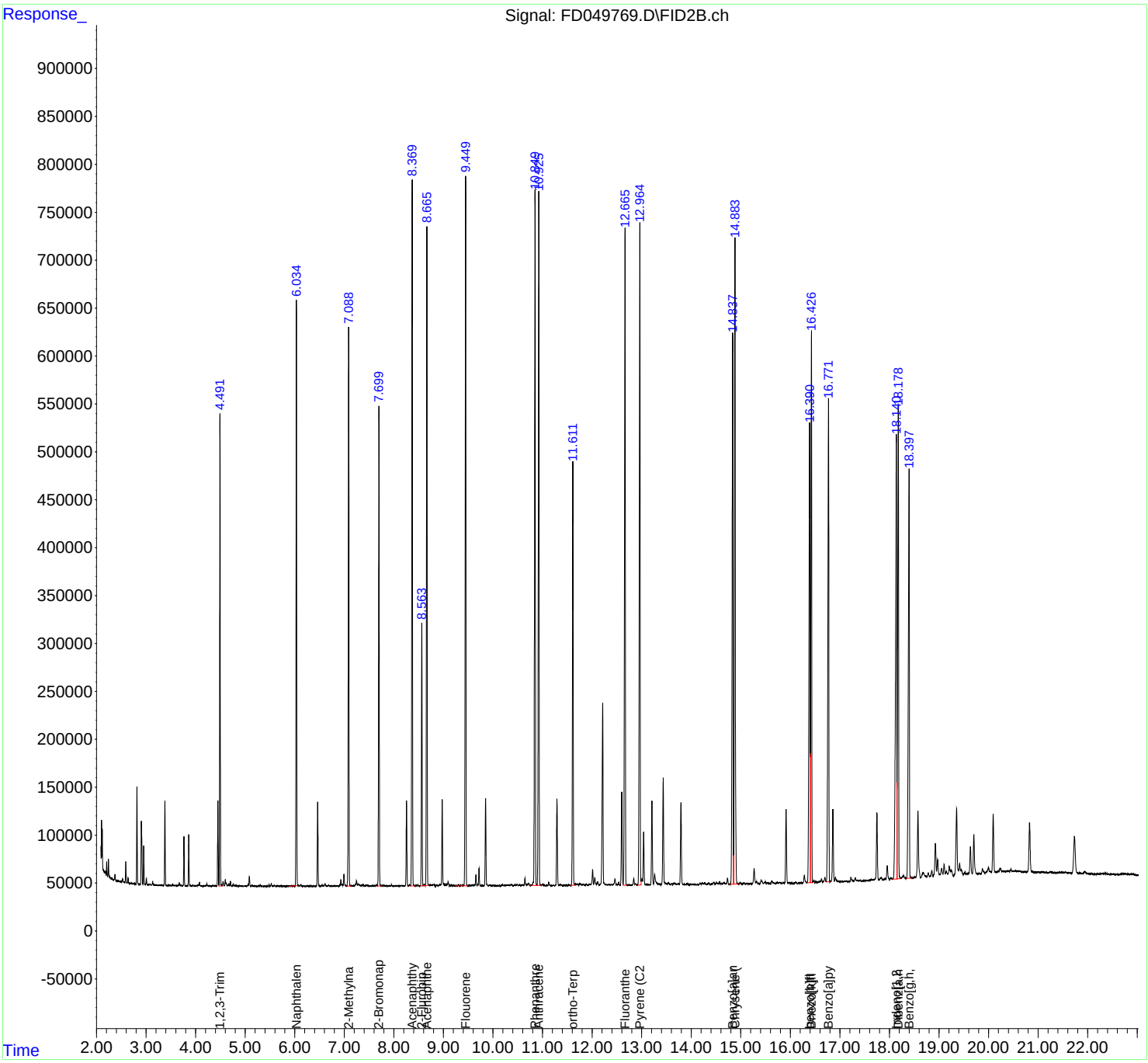
(f)=RT Delta > 1/2 Window (m)=manual int.

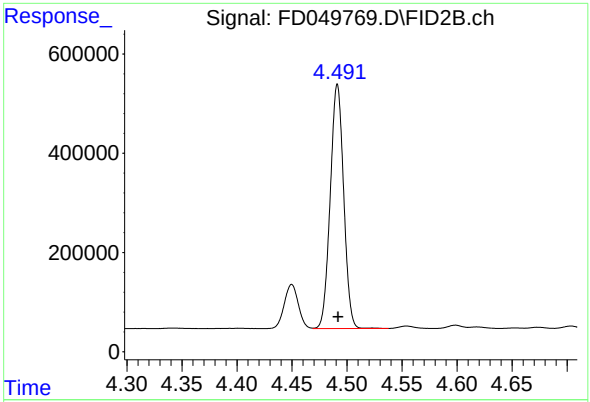
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049769.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 12:07
Operator : YP/AJ
Sample : Q3178-01MSD
Misc :
ALS Vial : 59 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 29 00:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.M
Quant Title : GC Extractables
QLast Update : Fri Sep 05 06:31:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

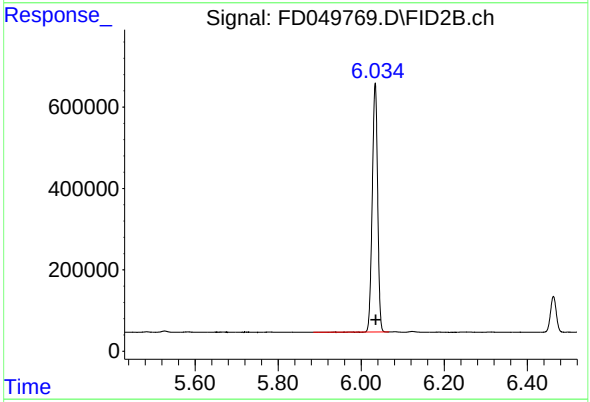




#1 1,2,3-Trimethylbenzene (C10.1)

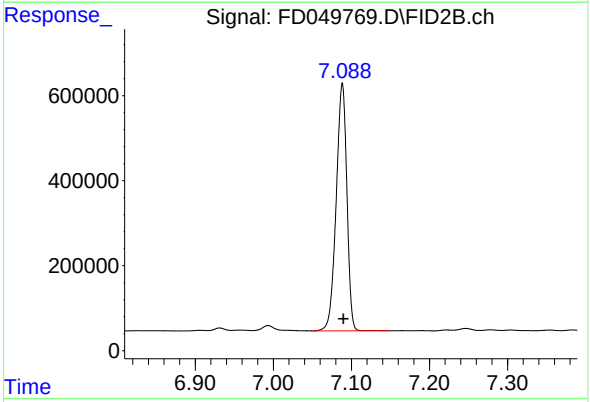
R.T.: 4.491 min
Delta R.T.: 0.000 min
Response: 4176511
Conc: 38.76 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD



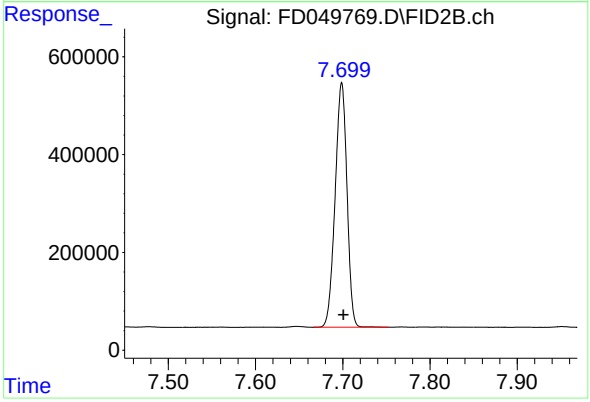
#2 Naphthalene (C11.7)

R.T.: 6.034 min
Delta R.T.: -0.001 min
Response: 5498972
Conc: 44.22 ug/ml



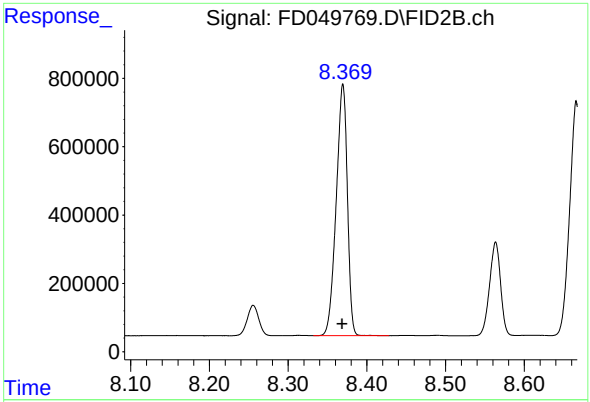
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.088 min
Delta R.T.: -0.002 min
Response: 5532726
Conc: 42.45 ug/ml



#4 2-Bromonaphthalene (SURR)

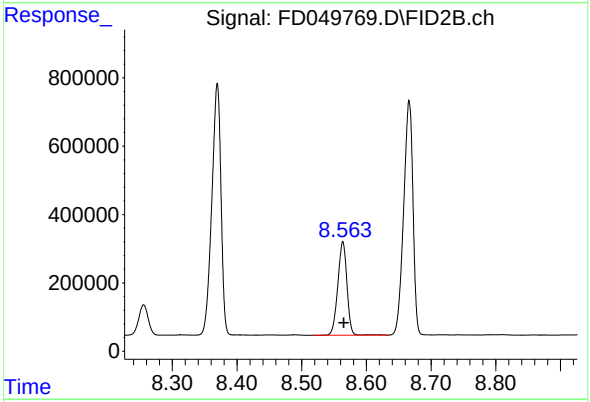
R.T.: 7.699 min
Delta R.T.: -0.002 min
Response: 4722924
Conc: 42.00 ug/ml



#5 Acenaphthylene (C15.06)

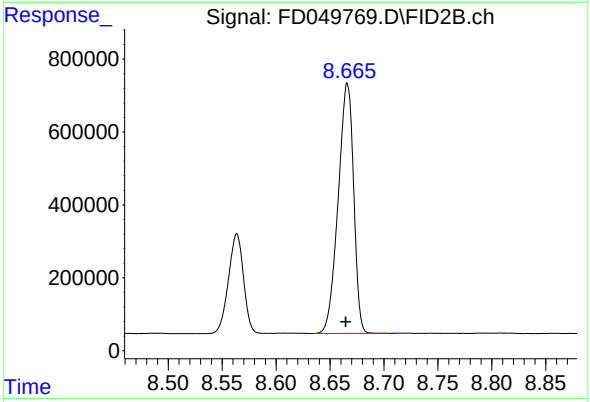
R.T.: 8.369 min
Delta R.T.: 0.000 min
Response: 7257198
Conc: 52.35 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD



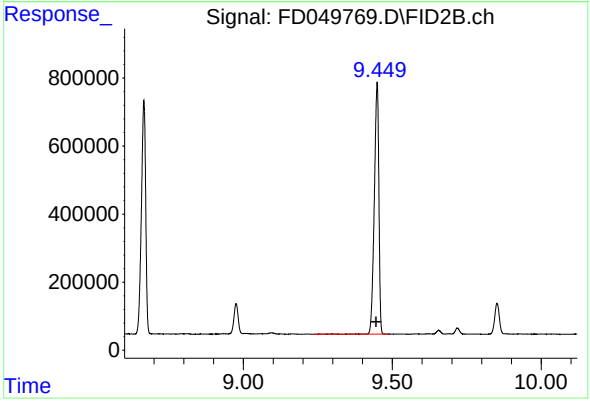
#6 2-Flurobiphenyl (SURR)

R.T.: 8.564 min
Delta R.T.: -0.002 min
Response: 2680542
Conc: 33.39 ug/ml



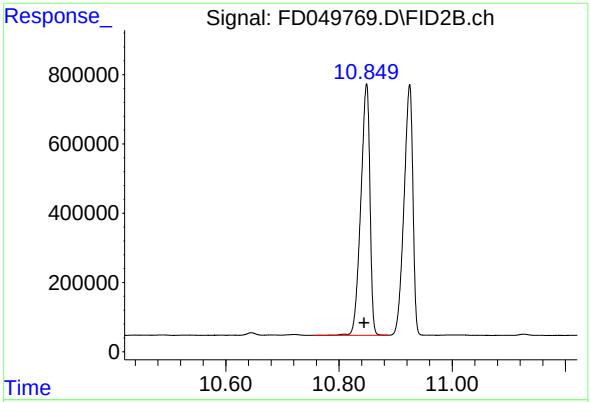
#7 Acenaphthene (C15.5)

R.T.: 8.666 min
Delta R.T.: 0.001 min
Response: 6859399
Conc: 49.48 ug/ml



#8 Flouorene (C16.55)

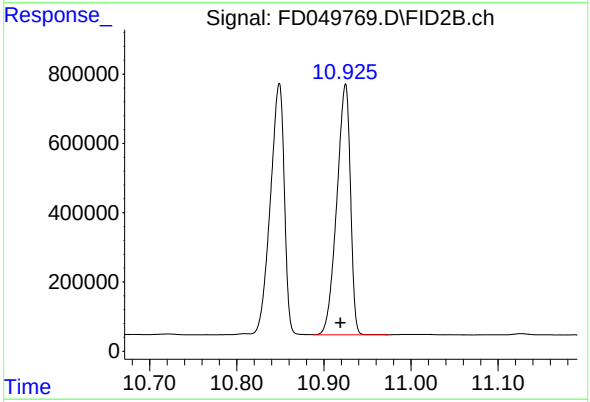
R.T.: 9.449 min
Delta R.T.: 0.003 min
Response: 7855312
Conc: 56.63 ug/ml



#9 Phenanthrene (C19.36)

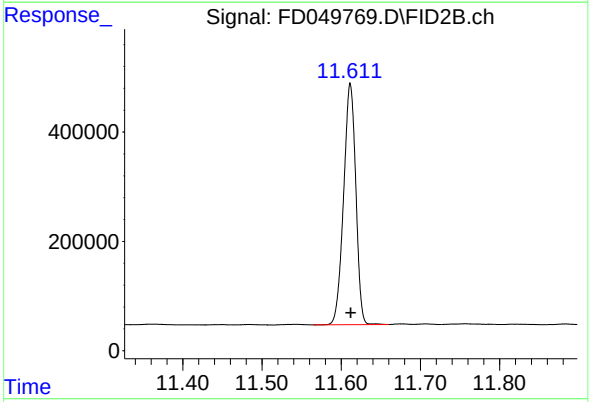
R.T.: 10.848 min
Delta R.T.: 0.004 min
Response: 8109854
Conc: 58.22 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD



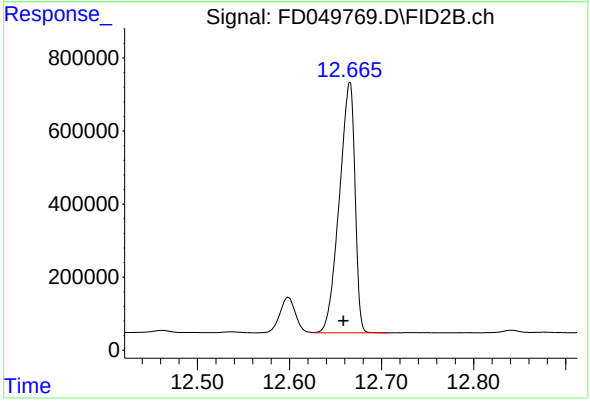
#10 Anthracene (C19.43)

R.T.: 10.924 min
Delta R.T.: 0.005 min
Response: 7861339
Conc: 59.54 ug/ml



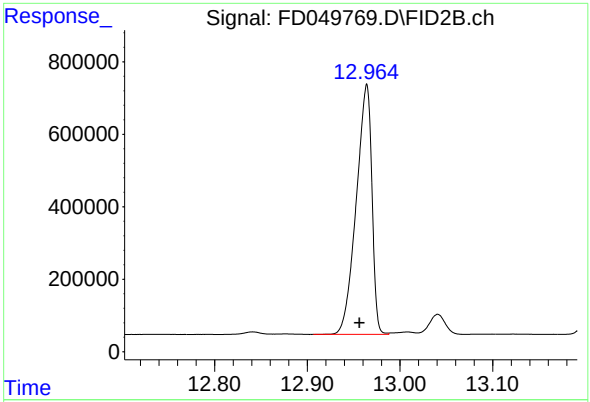
#11 ortho-Terphenyl (SURR)

R.T.: 11.611 min
Delta R.T.: 0.000 min
Response: 4715597
Conc: 33.33 ug/ml



#12 Fluoranthene (C21.85)

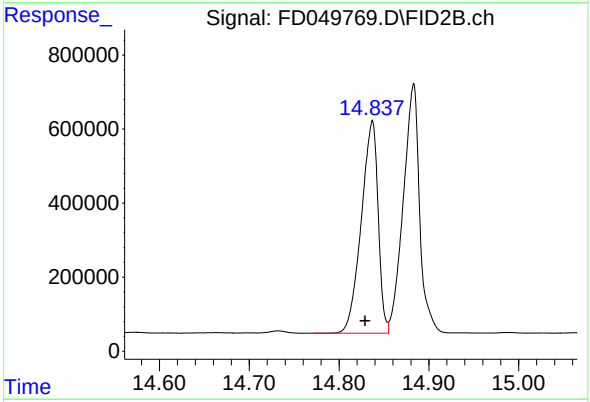
R.T.: 12.665 min
Delta R.T.: 0.006 min
Response: 8109657
Conc: 60.22 ug/ml



#13 Pyrene (C20.8)

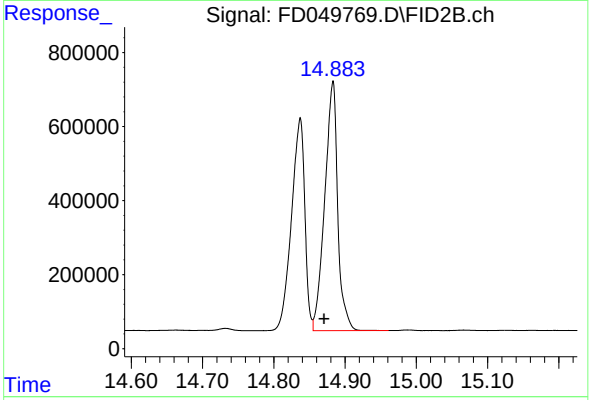
R.T.: 12.963 min
Delta R.T.: 0.007 min
Response: 8082512
Conc: 60.76 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD



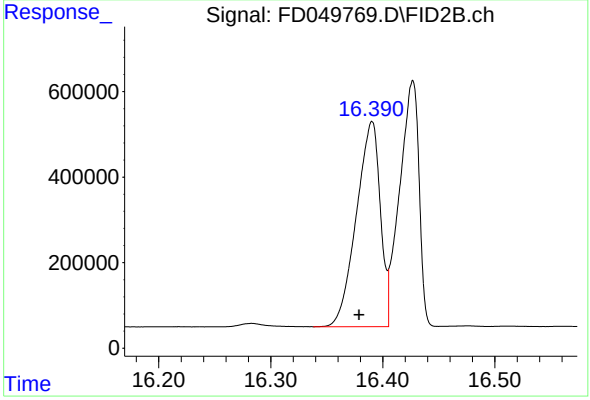
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.836 min
Delta R.T.: 0.007 min
Response: 7474740
Conc: 62.51 ug/ml



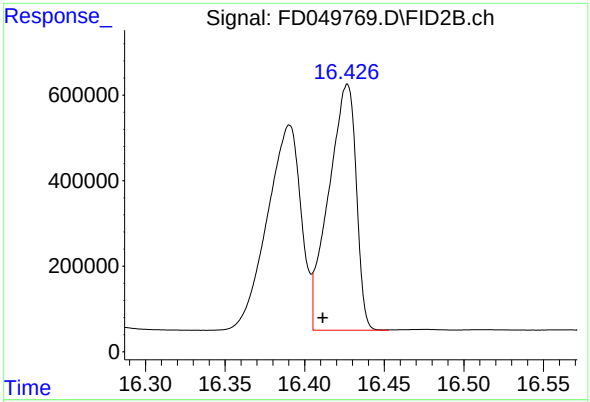
#15 Chrysene (C27.41)

R.T.: 14.882 min
Delta R.T.: 0.012 min
Response: 8522353
Conc: 70.05 ug/ml



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

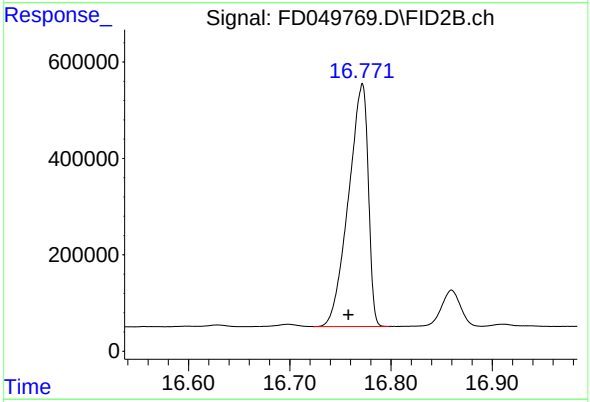
R.T.: 16.390 min
Delta R.T.: 0.011 min
Response: 7131225
Conc: 59.49 ug/ml



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

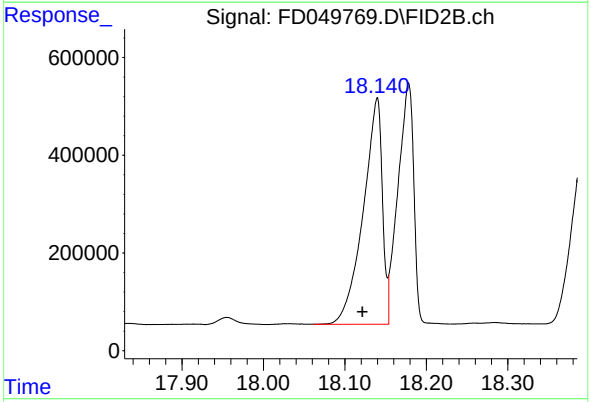
R.T.: 16.426 min
Delta R.T.: 0.015 min
Response: 6915785
Conc: 61.38 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD



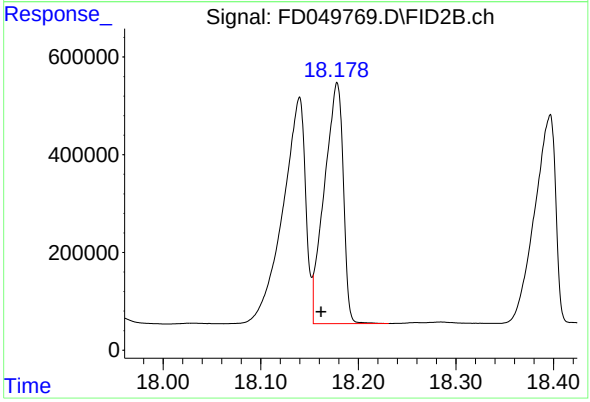
#18 Benzo[a]pyryene (C31.34)

R.T.: 16.771 min
Delta R.T.: 0.013 min
Response: 6816443
Conc: 58.09 ug/ml



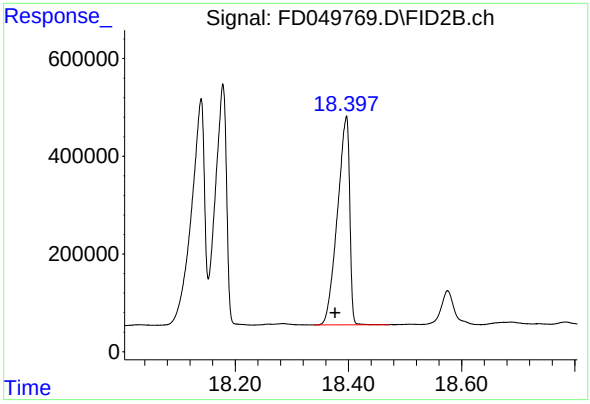
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.139 min
Delta R.T.: 0.017 min
Response: 7578145
Conc: 69.66 ug/ml



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

R.T.: 18.178 min
Delta R.T.: 0.016 min
Response: 6618312
Conc: 58.08 ug/ml



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

R.T.:	18.395 min
Delta R.T.:	0.019 min
Response:	6387183
Conc:	54.89 ug/ml

Instrument :
FID_D
ClientSampleId :
EME-TS14-01MSD

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD092625AR\
Data File : FD049769.D
Signal(s) : FID2B.ch
Acq On : 26 Sep 2025 12:07
Sample : Q3178-01MSD
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 090425.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	4.316	4.296	4.325	PV	258	1875	0.02%	0.001%
2	4.342	4.325	4.371	VV	1023	12008	0.14%	0.007%
3	4.401	4.371	4.422	PV	792	9910	0.12%	0.006%
4	4.450	4.422	4.470	VV	89299	791162	9.25%	0.485%
5	4.491	4.470	4.517	VV	492887	4173703	48.80%	2.558%
6	4.523	4.517	4.537	VV	1253	10485	0.12%	0.006%
7	4.554	4.537	4.578	VV	5290	54566	0.64%	0.033%
8	4.599	4.578	4.611	VV	7025	66757	0.78%	0.041%
9	4.618	4.611	4.640	VV	3441	35513	0.42%	0.022%
10	4.653	4.640	4.661	VV	1354	12985	0.15%	0.008%
11	4.674	4.661	4.688	VV	2794	27715	0.32%	0.017%
12	4.704	4.688	4.725	VV	5283	49391	0.58%	0.030%
13	4.732	4.725	4.737	VV	265	1539	0.02%	0.001%
14	4.757	4.737	4.770	VV	2653	24332	0.28%	0.015%
15	4.781	4.770	4.806	VV	1349	16305	0.19%	0.010%
16	4.819	4.806	4.850	VV	797	12070	0.14%	0.007%
17	4.859	4.850	4.867	VV	390	2348	0.03%	0.001%
18	4.872	4.867	4.879	VV	231	1081	0.01%	0.001%
19	4.891	4.879	4.912	VV	653	8023	0.09%	0.005%
20	4.919	4.912	4.934	VV	249	2430	0.03%	0.001%
21	4.951	4.934	4.975	VV	492	5112	0.06%	0.003%
22	4.989	4.975	4.996	VV	548	4823	0.06%	0.003%
23	5.006	4.996	5.029	VV	581	7536	0.09%	0.005%
24	5.058	5.029	5.067	VV	1923	19489	0.23%	0.012%
25	5.083	5.067	5.116	VV	10252	108733	1.27%	0.067%

rteres

26	5.141	5.116	5.174	VV	1899	23150	0.27%	0.014%
27	5.194	5.174	5.219	VV	445	7382	0.09%	0.005%
28	5.223	5.219	5.234	VV	305	1696	0.02%	0.001%
29	5.244	5.234	5.252	PV	330	1783	0.02%	0.001%
30	5.273	5.252	5.286	VV	638	7846	0.09%	0.005%
31	5.303	5.286	5.332	VV	1870	22044	0.26%	0.014%
32	5.338	5.332	5.355	VV	382	2773	0.03%	0.002%
33	5.361	5.355	5.385	VV	169	1816	0.02%	0.001%
34	5.392	5.385	5.426	VV	304	4871	0.06%	0.003%
35	5.451	5.426	5.461	PV	510	6201	0.07%	0.004%
36	5.484	5.461	5.502	VV	1397	15132	0.18%	0.009%
37	5.527	5.502	5.551	VV	3279	36162	0.42%	0.022%
38	5.555	5.551	5.560	VV	318	1667	0.02%	0.001%
39	5.582	5.560	5.605	VV	1028	15061	0.18%	0.009%
40	5.619	5.605	5.638	VV	418	6387	0.07%	0.004%
41	5.667	5.638	5.705	VV	644	16641	0.19%	0.010%
42	5.721	5.705	5.727	VV	557	5260	0.06%	0.003%
43	5.730	5.727	5.749	VV	565	4499	0.05%	0.003%
44	5.755	5.749	5.761	VV	363	1984	0.02%	0.001%
45	5.777	5.761	5.800	VV	751	9829	0.11%	0.006%
46	5.808	5.800	5.823	VV	320	3839	0.04%	0.002%
47	5.834	5.823	5.860	VV	444	7508	0.09%	0.005%
48	5.866	5.860	5.879	VV	399	3618	0.04%	0.002%
49	5.912	5.879	5.926	VV	361	8265	0.10%	0.005%
50	5.937	5.926	5.950	VV	567	6445	0.08%	0.004%
51	5.958	5.950	5.962	VV	508	2744	0.03%	0.002%
52	5.973	5.962	5.986	VV	681	7828	0.09%	0.005%
53	5.990	5.986	6.002	VV	489	4080	0.05%	0.003%
54	6.034	6.002	6.067	VV	611836	5536010	64.73%	3.393%
55	6.082	6.067	6.104	VV	1477	19559	0.23%	0.012%
56	6.123	6.104	6.159	VV	2138	28859	0.34%	0.018%
57	6.188	6.159	6.214	VV	551	10071	0.12%	0.006%
58	6.254	6.221	6.291	VV	772	17697	0.21%	0.011%
59	6.313	6.291	6.336	VV	847	11027	0.13%	0.007%
60	6.354	6.336	6.365	VV	242	3104	0.04%	0.002%
61	6.376	6.365	6.380	VV	320	2465	0.03%	0.002%
62	6.386	6.380	6.390	VV	310	1827	0.02%	0.001%
63	6.395	6.390	6.412	VV	406	3232	0.04%	0.002%
64	6.417	6.412	6.420	VV	373	1371	0.02%	0.001%
65	6.425	6.420	6.435	VV	398	2883	0.03%	0.002%
66	6.463	6.435	6.491	VV	88121	855459	10.00%	0.524%
67	6.498	6.491	6.513	VV	557	5384	0.06%	0.003%
68	6.521	6.513	6.527	VV	494	3416	0.04%	0.002%
69	6.549	6.527	6.565	VV	1510	18882	0.22%	0.012%

rteres

70	6.582	6.565	6.597	VV	1294	14432	0.17%	0.009%
71	6.613	6.597	6.631	VV	3052	32965	0.39%	0.020%
72	6.648	6.631	6.662	VV	948	11641	0.14%	0.007%
73	6.685	6.662	6.709	VV	1684	20054	0.23%	0.012%
74	6.718	6.709	6.732	VV	350	3687	0.04%	0.002%
75	6.745	6.732	6.761	VV	396	4504	0.05%	0.003%
76	6.788	6.761	6.816	VV	679	12023	0.14%	0.007%
77	6.827	6.816	6.837	VV	709	6520	0.08%	0.004%
78	6.842	6.837	6.859	VV	571	6376	0.07%	0.004%
79	6.863	6.859	6.882	VV	445	3123	0.04%	0.002%
80	6.907	6.882	6.916	VV	1392	15046	0.18%	0.009%
81	6.931	6.916	6.947	VV	7060	66844	0.78%	0.041%
82	6.959	6.947	6.974	VV	2075	25198	0.29%	0.015%
83	6.993	6.974	7.052	VV	12695	155375	1.82%	0.095%
84	7.088	7.052	7.132	VV	583415	5544808	64.84%	3.398%
85	7.134	7.132	7.150	VV	816	6638	0.08%	0.004%
86	7.165	7.150	7.177	VV	660	8139	0.10%	0.005%
87	7.189	7.177	7.206	VV	685	8823	0.10%	0.005%
88	7.222	7.206	7.230	VV	2232	20817	0.24%	0.013%
89	7.246	7.230	7.264	VV	5899	70726	0.83%	0.043%
90	7.279	7.264	7.293	VV	2785	32104	0.38%	0.020%
91	7.304	7.293	7.333	VV	2171	30564	0.36%	0.019%
92	7.354	7.333	7.368	VV	2087	25227	0.29%	0.015%
93	7.383	7.368	7.404	VV	2208	25875	0.30%	0.016%
94	7.426	7.404	7.439	VV	852	12564	0.15%	0.008%
95	7.451	7.439	7.463	VV	1218	13510	0.16%	0.008%
96	7.478	7.463	7.500	VV	1537	17858	0.21%	0.011%
97	7.521	7.500	7.530	VV	292	4120	0.05%	0.003%
98	7.561	7.530	7.578	VV	705	11449	0.13%	0.007%
99	7.611	7.578	7.630	VV	608	12300	0.14%	0.008%
100	7.648	7.630	7.666	VV	2070	24033	0.28%	0.015%
101	7.699	7.666	7.726	VV	500737	4727305	55.28%	2.897%
102	7.730	7.726	7.752	VV	1110	12957	0.15%	0.008%
103	7.767	7.752	7.782	VV	987	11620	0.14%	0.007%
104	7.795	7.782	7.803	VV	830	8679	0.10%	0.005%
105	7.811	7.803	7.834	VV	725	10933	0.13%	0.007%
106	7.840	7.834	7.879	VV	591	11470	0.13%	0.007%
107	7.880	7.879	7.892	VV	397	2053	0.02%	0.001%
108	7.907	7.892	7.935	VV	508	7842	0.09%	0.005%
109	7.952	7.935	7.995	VV	1811	21738	0.25%	0.013%
110	8.007	7.995	8.027	VV	430	5234	0.06%	0.003%
111	8.046	8.027	8.067	VV	546	9921	0.12%	0.006%
112	8.079	8.067	8.101	VV	531	8075	0.09%	0.005%

rteres

113	8.123	8.101	8.132	VV	577	8637	0.10%	0.005%
114	8.148	8.132	8.153	VV	729	8010	0.09%	0.005%
115	8.159	8.153	8.172	VV	815	7478	0.09%	0.005%
116	8.177	8.172	8.198	VV	547	7065	0.08%	0.004%
117	8.206	8.198	8.226	VV	591	7352	0.09%	0.005%
118	8.256	8.226	8.297	VV	89567	917177	10.72%	0.562%
119	8.314	8.297	8.330	VV	1328	17249	0.20%	0.011%
120	8.370	8.330	8.434	VV	737573	7280150	85.13%	4.461%
121	8.450	8.434	8.472	VV	1139	17266	0.20%	0.011%
122	8.489	8.472	8.514	VV	1296	17348	0.20%	0.011%
123	8.564	8.514	8.591	VV	274757	2674474	31.27%	1.639%
124	8.615	8.591	8.633	VV	1564	31018	0.36%	0.019%
125	8.666	8.633	8.704	VV	684229	6896046	80.64%	4.226%
126	8.716	8.704	8.731	VV	1527	21764	0.25%	0.013%
127	8.743	8.731	8.759	VV	1358	18286	0.21%	0.011%
128	8.766	8.759	8.771	VV	1073	7285	0.09%	0.004%
129	8.790	8.771	8.802	VV	1651	23238	0.27%	0.014%
130	8.810	8.802	8.842	VV	1740	24078	0.28%	0.015%
131	8.857	8.842	8.888	VV	1053	20089	0.23%	0.012%
132	8.913	8.888	8.918	VV	1017	13758	0.16%	0.008%
133	8.933	8.918	8.947	VV	1875	25106	0.29%	0.015%
134	8.976	8.947	9.007	VV	90638	917331	10.73%	0.562%
135	9.009	9.007	9.028	VV	2444	24683	0.29%	0.015%
136	9.033	9.028	9.045	VV	1513	13227	0.15%	0.008%
137	9.058	9.045	9.064	VV	1825	17863	0.21%	0.011%
138	9.095	9.064	9.120	VV	4560	79503	0.93%	0.049%
139	9.126	9.120	9.147	VV	1238	12994	0.15%	0.008%
140	9.163	9.147	9.194	VV	1176	18934	0.22%	0.012%
141	9.213	9.194	9.237	VV	900	12634	0.15%	0.008%
142	9.260	9.237	9.281	VV	723	13152	0.15%	0.008%
143	9.300	9.281	9.334	VV	1071	18973	0.22%	0.012%
144	9.360	9.334	9.370	VV	897	12953	0.15%	0.008%
145	9.379	9.370	9.389	VV	848	7861	0.09%	0.005%
146	9.403	9.389	9.412	VV	694	8185	0.10%	0.005%
147	9.449	9.412	9.487	VV	739019	7849675	91.79%	4.810%
148	9.500	9.487	9.510	VV	620	7177	0.08%	0.004%
149	9.527	9.510	9.560	VV	800	16105	0.19%	0.010%
150	9.580	9.560	9.604	VV	1097	20848	0.24%	0.013%
151	9.621	9.604	9.636	VV	1701	21337	0.25%	0.013%
152	9.656	9.636	9.677	VV	11660	124906	1.46%	0.077%
153	9.690	9.677	9.700	VV	1646	17685	0.21%	0.011%
154	9.719	9.700	9.745	VV	18522	188568	2.20%	0.116%
155	9.769	9.745	9.774	VV	699	10351	0.12%	0.006%

rteres

156	9.788	9.774	9.807	VV	774	9988	0.12%	0.006%
157	9.852	9.807	9.904	VV	91092	1004656	11.75%	0.616%
158	9.928	9.904	9.949	VV	1027	20796	0.24%	0.013%
159	9.952	9.949	9.979	VV	838	9958	0.12%	0.006%
160	10.004	9.979	10.016	VV	772	11765	0.14%	0.007%
161	10.022	10.016	10.036	VV	649	6505	0.08%	0.004%
162	10.047	10.036	10.067	VV	712	7004	0.08%	0.004%
163	10.080	10.067	10.096	PV	250	3084	0.04%	0.002%
164	10.129	10.096	10.149	VV	1144	16127	0.19%	0.010%
165	10.191	10.149	10.217	VV	1682	37483	0.44%	0.023%
166	10.244	10.217	10.264	VV	1098	22140	0.26%	0.014%
167	10.286	10.264	10.299	VV	1246	21410	0.25%	0.013%
168	10.318	10.299	10.347	VV	1058	25485	0.30%	0.016%
169	10.371	10.347	10.394	VV	1546	30966	0.36%	0.019%
170	10.410	10.394	10.424	VV	662	9201	0.11%	0.006%
171	10.438	10.424	10.450	VV	1351	16503	0.19%	0.010%
172	10.456	10.450	10.461	VV	1139	6316	0.07%	0.004%
173	10.464	10.461	10.469	VV	1028	4761	0.06%	0.003%
174	10.487	10.469	10.508	VV	1645	27644	0.32%	0.017%
175	10.524	10.508	10.532	VV	1207	12280	0.14%	0.008%
176	10.537	10.532	10.557	VV	1321	13703	0.16%	0.008%
177	10.569	10.557	10.579	VV	935	9546	0.11%	0.006%
178	10.590	10.579	10.604	VV	1076	14016	0.16%	0.009%
179	10.611	10.604	10.625	VV	1164	12603	0.15%	0.008%
180	10.645	10.625	10.664	VV	8171	93620	1.09%	0.057%
181	10.684	10.664	10.697	VV	1537	26128	0.31%	0.016%
182	10.721	10.697	10.760	VV	2875	56607	0.66%	0.035%
183	10.767	10.760	10.774	VV	839	5815	0.07%	0.004%
184	10.809	10.774	10.815	VV	3855	44084	0.52%	0.027%
185	10.849	10.815	10.887	VV	726621	8108362	94.81%	4.969%
186	10.925	10.887	10.974	VV	727196	7898985	92.36%	4.841%
187	10.994	10.974	11.008	VV	1641	25353	0.30%	0.016%
188	11.016	11.008	11.071	VV	1609	31836	0.37%	0.020%
189	11.094	11.071	11.109	VV	639	10693	0.13%	0.007%
190	11.126	11.109	11.152	VV	3914	47218	0.55%	0.029%
191	11.155	11.152	11.182	VV	708	6569	0.08%	0.004%
192	11.192	11.182	11.197	VV	382	3022	0.04%	0.002%
193	11.221	11.197	11.246	VV	698	11538	0.13%	0.007%
194	11.291	11.246	11.333	PV	91065	1051858	12.30%	0.645%
195	11.339	11.333	11.344	VV	807	4222	0.05%	0.003%
196	11.362	11.344	11.397	VV	1602	32504	0.38%	0.020%
197	11.402	11.397	11.428	VV	406	5781	0.07%	0.004%
198	11.450	11.428	11.464	VV	816	10401	0.12%	0.006%
199	11.483	11.464	11.517	VV	1004	14151	0.17%	0.009%

rteres

200	11.542	11.517	11.567	VV	1153	21163	0.25%	0.013%
201	11.611	11.567	11.660	VV	440874	4745950	55.49%	2.908%
202	11.676	11.660	11.692	VV	2053	29085	0.34%	0.018%
203	11.707	11.692	11.724	VV	2018	27718	0.32%	0.017%
204	11.757	11.724	11.804	VV	2217	67588	0.79%	0.041%
205	11.816	11.804	11.860	VV	1392	32127	0.38%	0.020%
206	11.883	11.860	11.909	VV	1800	31281	0.37%	0.019%
207	11.952	11.909	11.974	VV	1507	42744	0.50%	0.026%
208	12.011	11.974	12.031	VV	16798	221373	2.59%	0.136%
209	12.054	12.031	12.095	VV	8532	143945	1.68%	0.088%
210	12.113	12.095	12.145	VV	3938	65058	0.76%	0.040%
211	12.214	12.145	12.318	VV	189549	2525228	29.53%	1.547%
212	12.334	12.318	12.352	VV	966	16492	0.19%	0.010%
213	12.365	12.352	12.381	VV	1060	16308	0.19%	0.010%
214	12.388	12.381	12.409	VV	1007	13456	0.16%	0.008%
215	12.462	12.409	12.516	VV	6992	139537	1.63%	0.086%
216	12.537	12.516	12.564	VV	2948	41876	0.49%	0.026%
217	12.599	12.564	12.626	VV	97422	1144626	13.38%	0.701%
218	12.665	12.626	12.714	VV	687247	8122001	94.97%	4.977%
219	12.729	12.714	12.775	VV	505	13485	0.16%	0.008%
220	12.784	12.775	12.790	VV	366	2760	0.03%	0.002%
221	12.794	12.790	12.807	VV	381	2895	0.03%	0.002%
222	12.841	12.807	12.865	VV	7300	96986	1.13%	0.059%
223	12.876	12.865	12.908	VV	1694	26192	0.31%	0.016%
224	12.964	12.908	12.987	VV	688042	8095426	94.66%	4.961%
225	13.008	12.987	13.019	VV	7052	103262	1.21%	0.063%
226	13.041	13.019	13.070	VV	55915	665841	7.79%	0.408%
227	13.088	13.070	13.094	VV	886	10329	0.12%	0.006%
228	13.100	13.094	13.111	VV	942	8521	0.10%	0.005%
229	13.122	13.111	13.152	VV	1147	18898	0.22%	0.012%
230	13.157	13.152	13.161	VV	505	2479	0.03%	0.002%
231	13.165	13.161	13.175	VV	545	3665	0.04%	0.002%
232	13.208	13.175	13.239	VV	88255	1083877	12.67%	0.664%
233	13.263	13.239	13.389	VV	11413	275273	3.22%	0.169%
234	13.436	13.389	13.522	VV	112103	1416885	16.57%	0.868%
235	13.539	13.522	13.569	VV	2820	48179	0.56%	0.030%
236	13.610	13.569	13.628	VV	1401	33675	0.39%	0.021%
237	13.651	13.628	13.671	VV	2199	38529	0.45%	0.024%
238	13.683	13.671	13.714	VV	1290	25821	0.30%	0.016%
239	13.737	13.714	13.760	VV	1660	30057	0.35%	0.018%
240	13.794	13.760	13.841	VV	86041	1069246	12.50%	0.655%
241	13.855	13.841	13.875	VV	956	14161	0.17%	0.009%
242	13.886	13.875	13.892	VV	458	3370	0.04%	0.002%

rteres

243	13.916	13.892	13.947	VV	1902	31688	0.37%	0.019%
244	13.963	13.947	13.984	PV	897	12735	0.15%	0.008%
245	13.999	13.984	14.027	VV	621	13284	0.16%	0.008%
246	14.042	14.027	14.052	VV	650	8946	0.10%	0.005%
247	14.058	14.052	14.085	VV	501	8735	0.10%	0.005%
248	14.088	14.085	14.108	VV	314	2102	0.02%	0.001%
249	14.124	14.108	14.144	VV	406	5455	0.06%	0.003%
250	14.180	14.144	14.200	VV	1828	30037	0.35%	0.018%
251	14.226	14.200	14.248	VV	1978	37648	0.44%	0.023%
252	14.269	14.248	14.306	VV	1935	35492	0.42%	0.022%
253	14.353	14.306	14.382	VV	2021	42613	0.50%	0.026%
254	14.419	14.382	14.423	VV	825	14561	0.17%	0.009%
255	14.452	14.423	14.485	VV	2390	52105	0.61%	0.032%
256	14.515	14.485	14.542	VV	2584	44501	0.52%	0.027%
257	14.573	14.542	14.600	VV	2917	51991	0.61%	0.032%
258	14.604	14.600	14.607	VV	982	3673	0.04%	0.002%
259	14.611	14.607	14.623	VV	939	6865	0.08%	0.004%
260	14.662	14.623	14.692	VV	1891	45997	0.54%	0.028%
261	14.700	14.692	14.708	VV	1153	9629	0.11%	0.006%
262	14.732	14.708	14.759	VV	6512	86072	1.01%	0.053%
263	14.837	14.759	14.855	VV	574760	7476362	87.42%	4.582%
264	14.883	14.855	14.970	VV	677898	8552041	100.00%	5.241%
265	14.989	14.970	15.009	VV	1907	25286	0.30%	0.015%
266	15.020	15.009	15.038	VV	424	5068	0.06%	0.003%
267	15.067	15.038	15.100	VV	1474	25683	0.30%	0.016%
268	15.126	15.100	15.145	VV	780	14551	0.17%	0.009%
269	15.163	15.145	15.180	VV	631	10247	0.12%	0.006%
270	15.184	15.180	15.188	VV	449	1719	0.02%	0.001%
271	15.194	15.188	15.207	VV	577	4835	0.06%	0.003%
272	15.214	15.207	15.230	VV	424	3890	0.05%	0.002%
273	15.269	15.230	15.305	VV	16102	254297	2.97%	0.156%
274	15.321	15.305	15.354	VV	2215	38276	0.45%	0.023%
275	15.361	15.354	15.383	VV	628	8903	0.10%	0.005%
276	15.411	15.383	15.452	VV	3674	83997	0.98%	0.051%
277	15.493	15.452	15.514	VV	2393	44345	0.52%	0.027%
278	15.535	15.514	15.562	VV	1159	18546	0.22%	0.011%
279	15.578	15.562	15.595	VV	772	11997	0.14%	0.007%
280	15.627	15.595	15.649	VV	2940	47912	0.56%	0.029%
281	15.656	15.649	15.684	VV	1222	18172	0.21%	0.011%
282	15.689	15.684	15.692	VV	408	1816	0.02%	0.001%
283	15.735	15.692	15.756	VV	1210	29737	0.35%	0.018%
284	15.787	15.756	15.813	VV	1358	29807	0.35%	0.018%
285	15.817	15.813	15.830	VV	735	5464	0.06%	0.003%

286	15.846	15.830	15.858	VV	767	10568	0.12%	0.006%
287	15.874	15.858	15.883	VV	924	11769	0.14%	0.007%
288	15.915	15.883	15.951	VV	77370	992585	11.61%	0.608%
289	15.975	15.951	16.013	VV	1133	21442	0.25%	0.013%
290	16.028	16.013	16.044	VV	401	4335	0.05%	0.003%
291	16.061	16.053	16.068	PV	265	1220	0.01%	0.001%
292	16.110	16.068	16.147	VV	1368	24030	0.28%	0.015%
293	16.167	16.147	16.181	PV	427	4462	0.05%	0.003%
294	16.205	16.181	16.210	VV	478	5060	0.06%	0.003%
295	16.218	16.210	16.232	VV	492	4166	0.05%	0.003%
296	16.283	16.245	16.339	VV	8137	134852	1.58%	0.083%
297	16.390	16.339	16.405	VV	480532	7104776	83.08%	4.354%
298	16.427	16.405	16.450	VV	576422	6961713	81.40%	4.266%
299	16.475	16.450	16.494	VV	1958	34511	0.40%	0.021%
300	16.514	16.494	16.546	VV	1298	24630	0.29%	0.015%
301	16.556	16.546	16.561	VV	954	5666	0.07%	0.003%
302	16.564	16.561	16.577	VV	804	6124	0.07%	0.004%
303	16.598	16.577	16.612	VV	1562	23006	0.27%	0.014%
304	16.628	16.612	16.654	VV	4074	54763	0.64%	0.034%
305	16.698	16.654	16.724	VV	5515	89750	1.05%	0.055%
306	16.772	16.724	16.806	VV	505859	6846585	80.06%	4.196%
307	16.860	16.806	16.890	VV	76046	1013432	11.85%	0.621%
308	16.911	16.890	16.930	VV	5193	75005	0.88%	0.046%
309	16.934	16.930	16.967	VV	1843	22311	0.26%	0.014%
310	16.996	16.967	17.002	VV	566	10259	0.12%	0.006%
311	17.006	17.002	17.039	VV	520	7805	0.09%	0.005%
312	17.057	17.049	17.070	VV	257	2314	0.03%	0.001%
313	17.124	17.078	17.170	VV	730	20380	0.24%	0.012%
314	17.223	17.191	17.273	PV	4057	76436	0.89%	0.047%
315	17.280	17.273	17.287	VV	811	5465	0.06%	0.003%
316	17.311	17.287	17.333	VV	3656	54828	0.64%	0.034%
317	17.350	17.333	17.377	VV	1240	20597	0.24%	0.013%
318	17.401	17.377	17.440	VV	930	17817	0.21%	0.011%
319	17.461	17.440	17.467	PV	389	3743	0.04%	0.002%
320	17.482	17.467	17.502	VV	500	7351	0.09%	0.005%
321	17.508	17.502	17.511	VV	299	1028	0.01%	0.001%
322	17.534	17.511	17.551	VV	535	8896	0.10%	0.005%
323	17.559	17.551	17.581	VV	499	5908	0.07%	0.004%
324	17.605	17.581	17.622	VV	633	12145	0.14%	0.007%
325	17.639	17.622	17.659	VV	1332	20223	0.24%	0.012%
326	17.672	17.659	17.690	VV	1016	15897	0.19%	0.010%
327	17.747	17.690	17.790	VV	70727	987481	11.55%	0.605%
328	17.834	17.790	17.861	VV	2768	62679	0.73%	0.038%
329	17.915	17.861	17.929	VV	1098	27704	0.32%	0.017%

rteres

330	17.955	17.929	18.005	VV	14681	230188	2.69%	0.141%
331	18.032	18.005	18.062	PV	1609	28847	0.34%	0.018%
332	18.140	18.062	18.153	VV	465598	7528618	88.03%	4.614%
333	18.178	18.153	18.230	VV	494056	6682468	78.14%	4.095%
334	18.260	18.230	18.267	VV	2004	23628	0.28%	0.014%
335	18.284	18.267	18.322	VV	3018	53845	0.63%	0.033%
336	18.325	18.322	18.340	VV	387	2116	0.02%	0.001%
337	18.396	18.340	18.440	PV	429073	6384237	74.65%	3.912%
338	18.445	18.440	18.451	VV	411	2324	0.03%	0.001%
339	18.457	18.451	18.470	VV	426	2964	0.03%	0.002%

Sum of corrected areas: 163182708

Aromatic EPH 090425.M Mon Sep 29 00:58:46 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:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3176
Lab Sample ID:	Q3178-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016661.D	1	09/25/25	09/26/25	PB169823

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	14.7		0.20	1.40	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	12.3		0.15	0.93	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	13.6		0.18	1.40	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	16.7		0.74	1.87	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	43.5		1.65	2.80	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.7		40 - 140	93%	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:	Q3178-03	Acq On:	26 Sep 2025 10:10
Client Sample ID:	EME-TS14-01MSD	Operator:	YP\AJ
Data file:	FG016661.D	Misc:	
Instrument:	FID_G	ALS Vial:	42
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.279	6.920	18225740	157.794	300	ug/ml
Aliphatic C12-C16	6.921	10.379	15858560	131.483	200	ug/ml
Aliphatic C16-C21	10.380	13.768	18890583	146.111	300	ug/ml
Aliphatic C21-C28	13.769	17.453	23115777	179.415	400	ug/ml
Aliphatic C28-C40	17.454	22.488	47262397	466.011	600	ug/ml
Aliphatic EPH	3.279	22.488	123353057	1080		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.510	13.510	5267240	46.67		ug/ml
Aliphatic C9-C28	3.279	17.453	76090660	614.803	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016661.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:10
Operator : YP\AJ
Sample : Q3178-02MSD
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

Integration File: autoint1.e
Quant Time: Sep 27 00:01:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 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...	13.510	5267240	46.665 ug/ml
Spiked Amount	50.000		Recovery =	93.33%
	Target Compounds			
1) T	n-Nonane (C9)	3.386	4478482	39.465 ug/ml
2) T	n-Decane (C10)	4.646	4994231	43.183 ug/ml
4) T	n-Dodecane (C12)	6.826	5451584	46.445 ug/ml
6) T	n-Tetradecane (C14)	8.668	5759908	49.095 ug/ml
7) T	n-Hexadecane (C16)	10.286	5998030	48.409 ug/ml
8) T	n-Octadecane (C18)	11.741	6038297	46.385 ug/ml
10) T	n-Eicosane (C20)	13.061	6185927	47.851 ug/ml
11) T	n-Heneicosane (C21)	13.677	5916202	46.071 ug/ml
13) T	n-Docosane (C22)	14.268	5854530	45.403 ug/ml
14) T	n-Tetracosane (C24)	15.380	5763268	44.189 ug/ml
15) T	n-Hexacosane (C26)	16.409	5553556	43.021 ug/ml
16) T	n-Octacosane (C28)	17.365	5335749	42.046 ug/ml
17) T	n-Tricontane (C30)	18.258	5299365	41.416 ug/ml
18) T	n-Dotriacontane (C32)	19.098	5216611	42.594 ug/ml
19) T	n-Tetratriacontane (C34)	19.888	5143134	47.343 ug/mlm
20) T	n-Hexatriacontane (C36)	20.630	4902294	53.947 ug/mlm
21) T	n-Octatriacontane (C38)	21.415	4994645	61.328 ug/ml
22) T	n-Tetracontane (C40)	22.411	4834641	62.674 ug/ml

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

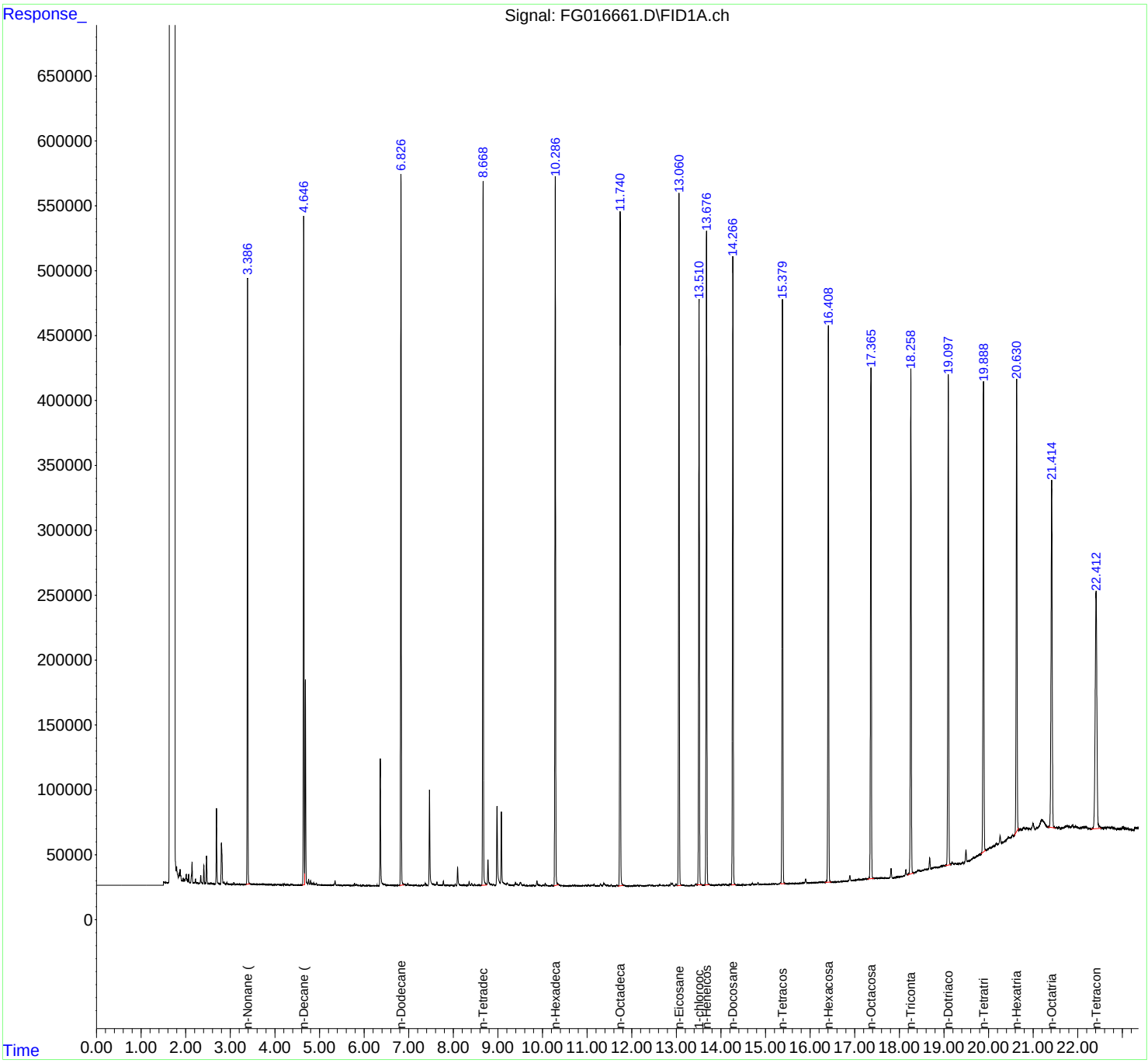
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG092525AL\
Data File : FG016661.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:10
Operator : YP\AJ
Sample : Q3178-02MSD
Misc :
ALS Vial : 42 Sample Multiplier: 1

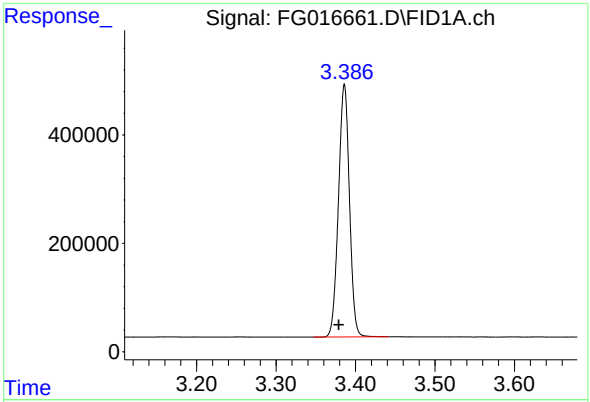
Integration File: autoint1.e
Quant Time: Sep 27 00:01:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 16:20:58 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025





#1 n-Nonane (C9)

R.T.: 3.386 min
Delta R.T.: 0.007 min
Response: 4478482
Conc: 39.46 ug/ml

Instrument :
FID_G
ClientSampleId :

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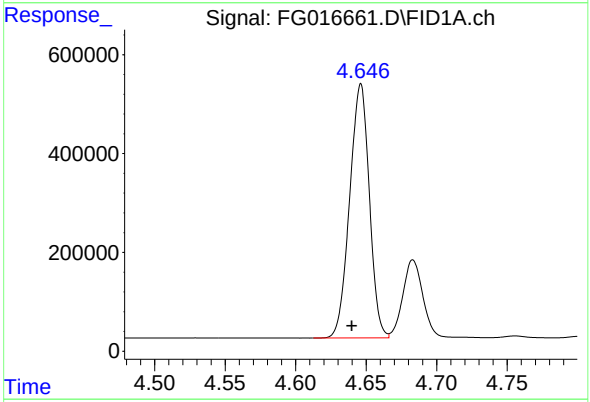
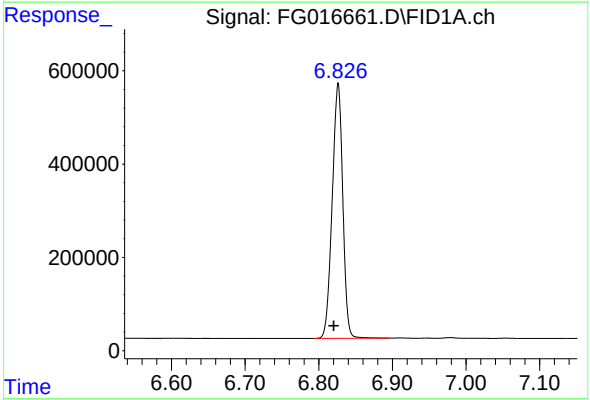


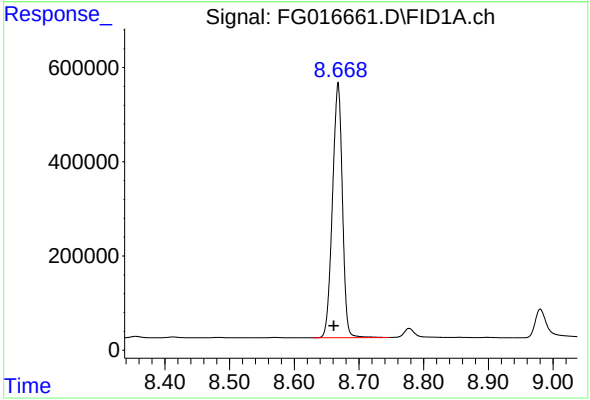
#2 n-Decane (C10)

R.T.: 4.646 min
Delta R.T.: 0.006 min
Response: 4994231
Conc: 43.18 ug/ml



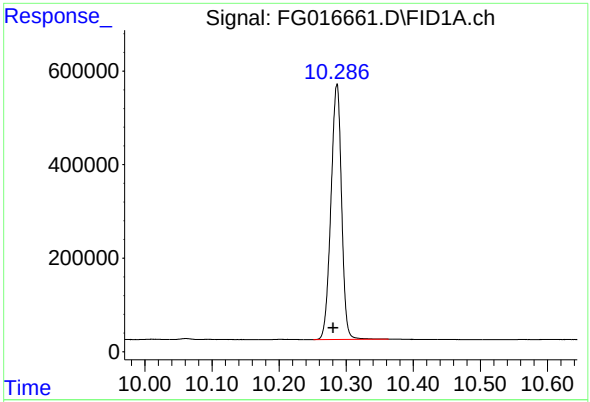
#4 n-Dodecane (C12)

R.T.: 6.826 min
Delta R.T.: 0.006 min
Response: 5451584
Conc: 46.45 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.668 min
Delta R.T.: 0.007 min
Response: 5759908
Conc: 49.09 ug/ml



#7 n-Hexadecane (C16)

R.T.: 10.286 min
Delta R.T.: 0.006 min
Response: 5998030
Conc: 48.41 ug/ml

Instrument :
FID_G
ClientSampleId :

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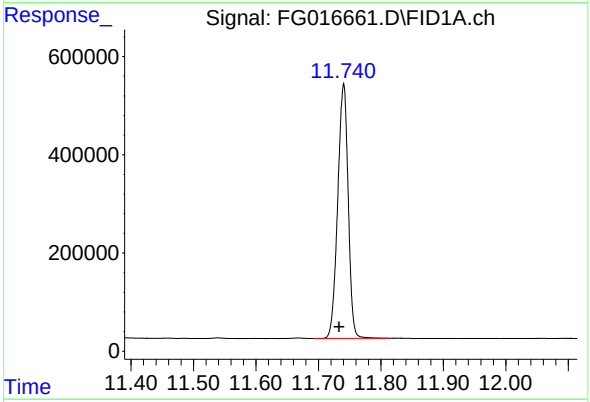
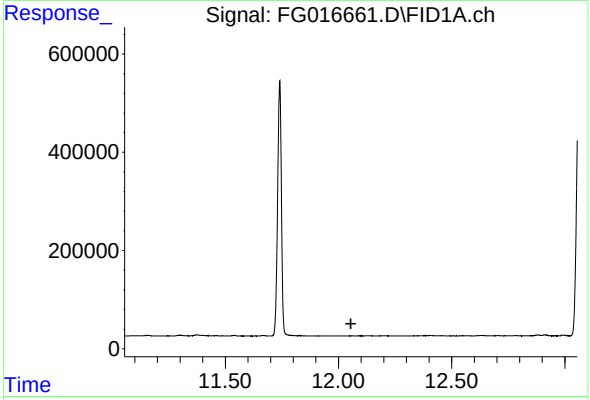


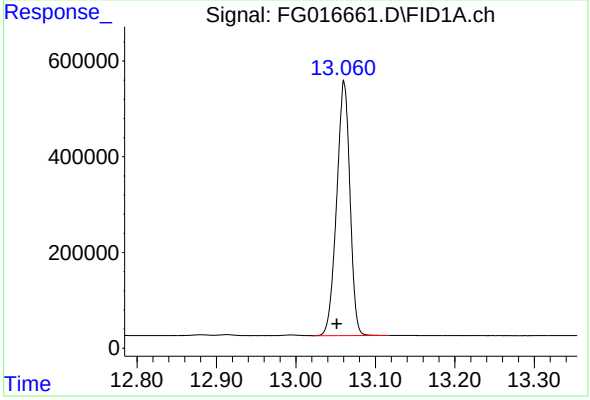
#8 n-Octadecane (C18)

R.T.: 11.741 min
Delta R.T.: 0.008 min
Response: 6038297
Conc: 46.38 ug/ml



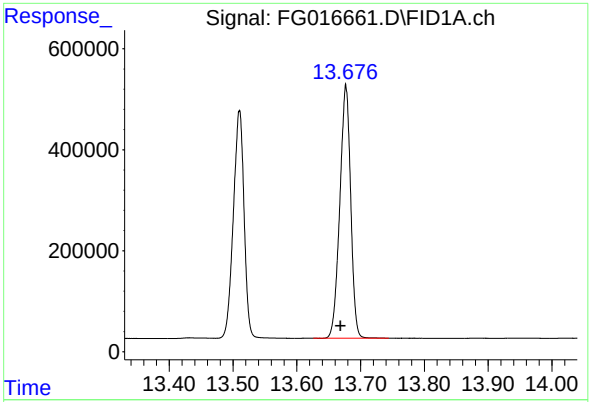
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.055 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.009 min
Response: 6185927
Conc: 47.85 ug/ml



#11 n-Heneicosane (C21)

R.T.: 13.677 min
Delta R.T.: 0.009 min
Response: 5916202
Conc: 46.07 ug/ml

Instrument :
FID_G
ClientSampleId :

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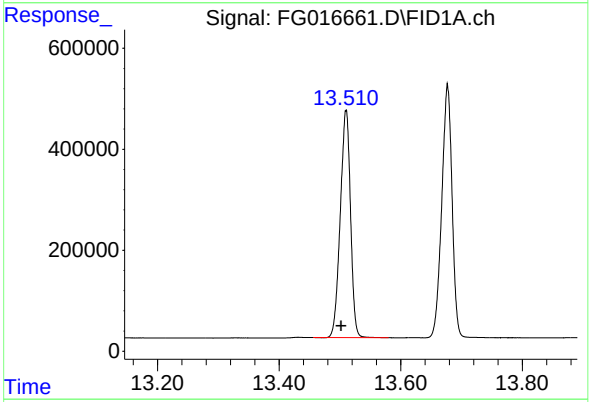
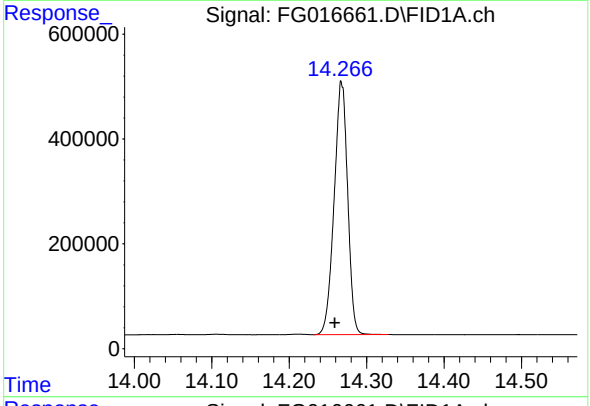


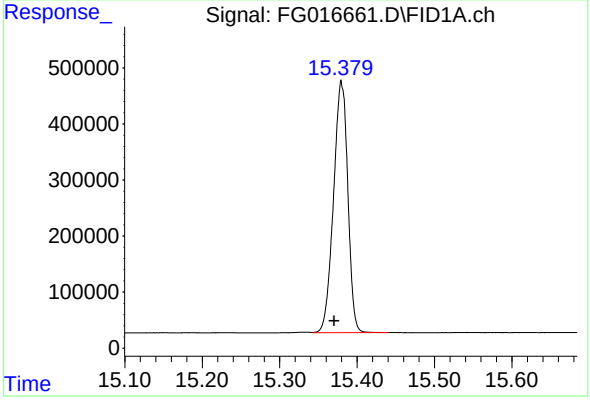
#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min
Delta R.T.: 0.008 min
Response: 5267240
Conc: 46.67 ug/ml



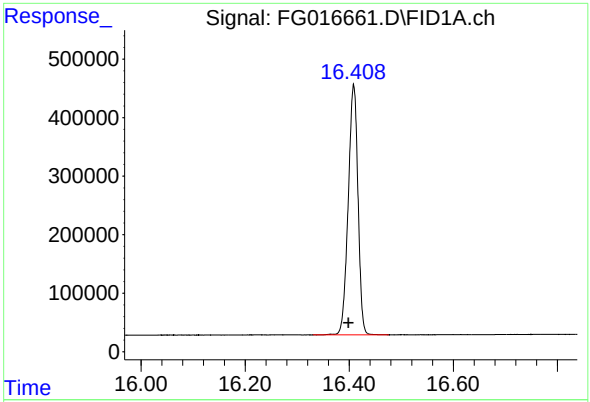
#13 n-Docosane (C22)

R.T.: 14.268 min
Delta R.T.: 0.009 min
Response: 5854530
Conc: 45.40 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.380 min
Delta R.T.: 0.010 min
Response: 5763268
Conc: 44.19 ug/ml



#15 n-Hexacosane (C26)

R.T.: 16.409 min
Delta R.T.: 0.010 min
Response: 5553556
Conc: 43.02 ug/ml

Instrument :
FID_G
ClientSampleId :

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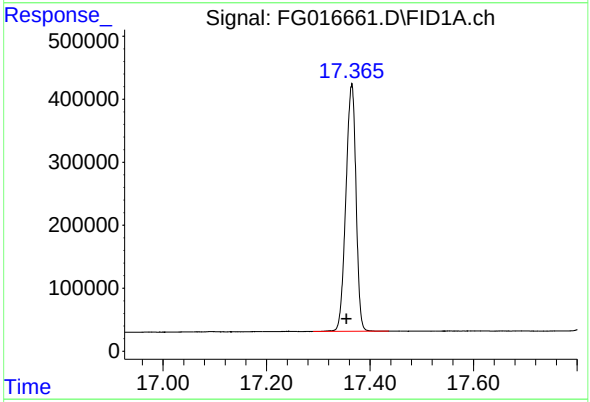
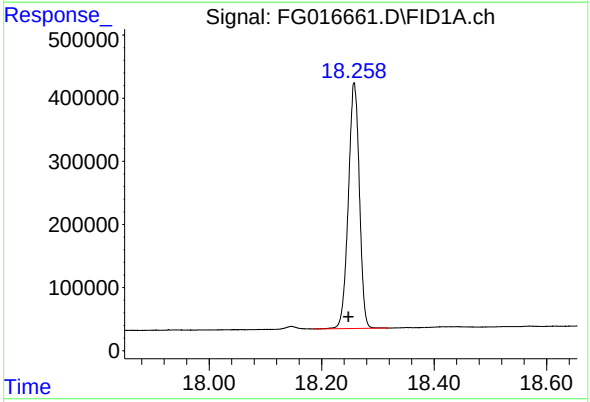


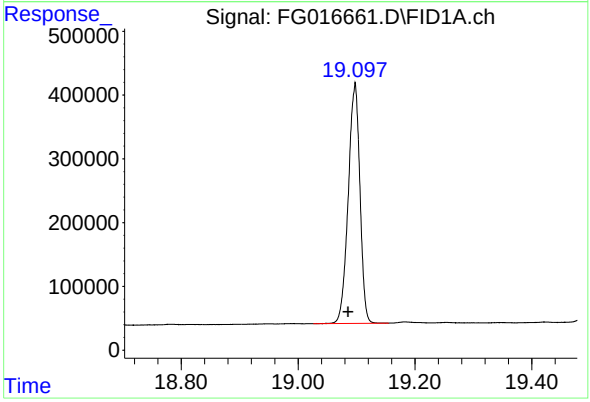
#16 n-Octacosane (C28)

R.T.: 17.365 min
Delta R.T.: 0.010 min
Response: 5335749
Conc: 42.05 ug/ml



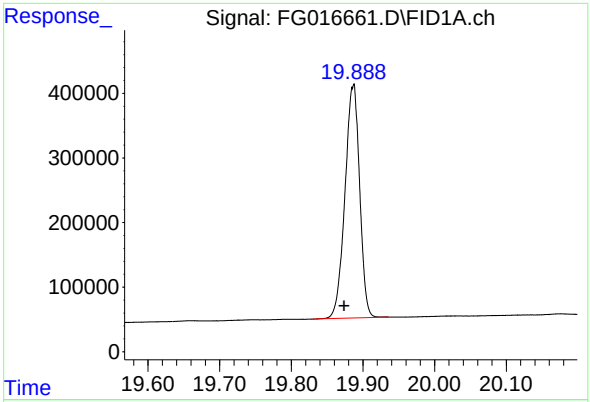
#17 n-Tricontane (C30)

R.T.: 18.258 min
Delta R.T.: 0.010 min
Response: 5299365
Conc: 41.42 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 19.098 min
Delta R.T.: 0.012 min
Response: 5216611
Conc: 42.59 ug/ml



#19 n-Tetratriacontane (C34)

R.T.: 19.888 min
Delta R.T.: 0.014 min
Response: 5143134
Conc: 47.34 ug/ml

Instrument :
FID_G
ClientSampleId :

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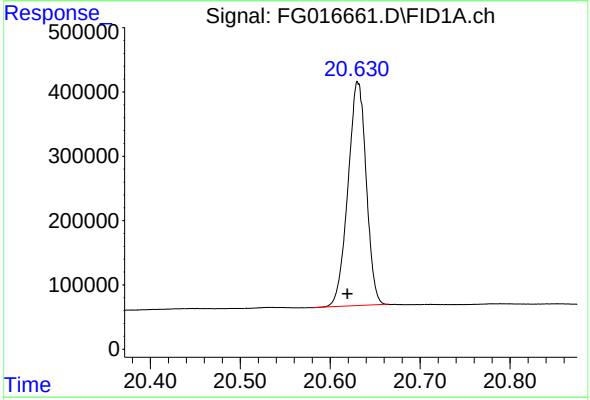
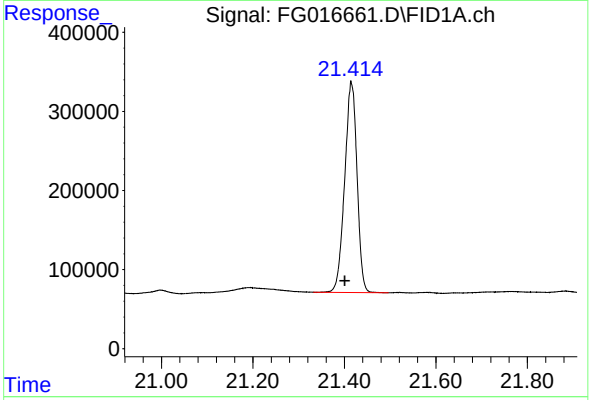


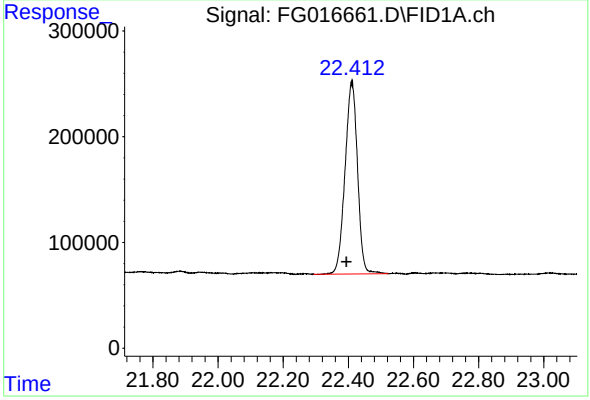
#20 n-Hexatriacontane (C36)

R.T.: 20.630 min
Delta R.T.: 0.011 min
Response: 4902294
Conc: 53.95 ug/ml m



#21 n-Octatriacontane (C38)

R.T.: 21.415 min
Delta R.T.: 0.014 min
Response: 4994645
Conc: 61.33 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.411 min
Delta R.T.: 0.017 min
Response: 4834641
Conc: 62.67 ug/ml

Instrument :
FID_G
ClientSampleId :

rteres

Area Percent Report

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG
Data File : FG016661.D
Signal(s) : FID1A.ch
Acq On : 26 Sep 2025 10:10
Sample : Q3178-02MSD
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 092425.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	3.254	3.221	3.296	BV	204	2048	0.03%	0.002%
2	3.315	3.296	3.331	PV	86	724	0.01%	0.001%
3	3.386	3.331	3.510	VV	462000	4519327	72.86%	3.512%
4	3.531	3.510	3.549	VV	480	8580	0.14%	0.007%
5	3.559	3.549	3.581	VV	333	5002	0.08%	0.004%
6	3.598	3.581	3.618	VV	377	6258	0.10%	0.005%
7	3.629	3.618	3.660	VV	384	6445	0.10%	0.005%
8	3.672	3.660	3.684	VV	265	3144	0.05%	0.002%
9	3.701	3.684	3.710	VV	366	4168	0.07%	0.003%
10	3.722	3.710	3.735	VV	416	5339	0.09%	0.004%
11	3.744	3.735	3.818	VV	472	15610	0.25%	0.012%
12	3.836	3.818	3.864	VV	279	4680	0.08%	0.004%
13	3.874	3.864	3.905	VV	201	3375	0.05%	0.003%
14	3.921	3.905	3.957	VV	142	3507	0.06%	0.003%
15	3.975	3.957	3.988	VV	229	3004	0.05%	0.002%
16	4.000	3.988	4.012	VV	161	1724	0.03%	0.001%
17	4.029	4.012	4.048	VV	143	2153	0.03%	0.002%
18	4.073	4.048	4.147	VV	168	5532	0.09%	0.004%
19	4.182	4.147	4.201	VV	434	6066	0.10%	0.005%
20	4.216	4.201	4.275	VV	862	12288	0.20%	0.010%
21	4.291	4.275	4.330	VV	252	5187	0.08%	0.004%
22	4.388	4.330	4.406	VV	723	13634	0.22%	0.011%
23	4.414	4.406	4.509	VV	154	5542	0.09%	0.004%
24	4.529	4.509	4.574	VV	174	3452	0.06%	0.003%
25	4.586	4.574	4.610	VV	129	1885	0.03%	0.001%
26	4.646	4.610	4.666	VV	506674	5001715	80.63%	3.887%
27	4.683	4.666	4.736	VV	156910	1594307	25.70%	1.239%
28	4.756	4.736	4.785	VV	4422	56222	0.91%	0.044%
29	4.801	4.785	4.820	VV	3577	39954	0.64%	0.031%
30	4.834	4.820	4.848	VV	1278	15922	0.26%	0.012%
31	4.865	4.848	4.883	VV	1954	23323	0.38%	0.018%

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32	4.897	4.883	4.912	VV	966	12118	0.20%	0.009%
33	4.930	4.912	5.000	VV	1762	2923		
34	5.009	5.000	5.038	VV	301	544		
35	5.057	5.038	5.088	VV	344	805		
36	5.097	5.088	5.125	VV	227	419		
37	5.161	5.125	5.178	VV	367	7514	0.12%	0.006%
38	5.192	5.178	5.218	VV	214	3988	0.06%	0.003%
39	5.226	5.218	5.242	VV	172	2190	0.04%	0.002%
40	5.264	5.242	5.286	VV	316	5728	0.09%	0.004%
41	5.349	5.286	5.388	VV	3566	52235	0.84%	0.041%
42	5.411	5.388	5.452	VV	732	11127	0.18%	0.009%
43	5.468	5.452	5.514	VV	148	2348	0.04%	0.002%
44	5.526	5.514	5.545	PV	133	1364	0.02%	0.001%
45	5.559	5.545	5.581	VV	255	3325	0.05%	0.003%
46	5.598	5.581	5.625	VV	186	3270	0.05%	0.003%
47	5.632	5.625	5.643	VV	153	1215	0.02%	0.001%
48	5.652	5.643	5.659	VV	139	1115	0.02%	0.001%
49	5.665	5.659	5.714	VV	157	2333	0.04%	0.002%
50	5.749	5.714	5.763	PV	111	2261	0.04%	0.002%
51	5.787	5.763	5.813	VV	1844	21664	0.35%	0.017%
52	5.831	5.813	5.873	VV	1127	12540	0.20%	0.010%
53	5.892	5.873	5.928	VV	279	3309	0.05%	0.003%
54	5.976	5.928	6.041	VV	379	7305	0.12%	0.006%
55	6.055	6.041	6.072	VV	121	1438	0.02%	0.001%
56	6.095	6.072	6.122	VV	251	4293	0.07%	0.003%
57	6.162	6.122	6.181	VV	96	1607	0.03%	0.001%
58	6.198	6.181	6.252	PV	67	884	0.01%	0.001%
59	6.363	6.252	6.451	PV	97634	1051906	16.96%	0.817%
60	6.467	6.451	6.510	VV	1457	28094	0.45%	0.022%
61	6.532	6.510	6.585	VV	813	21550	0.35%	0.017%
62	6.608	6.585	6.635	VV	496	11897	0.19%	0.009%
63	6.647	6.635	6.683	VV	360	7364	0.12%	0.006%
64	6.708	6.683	6.741	VV	306	7758	0.13%	0.006%
65	6.748	6.741	6.765	VV	266	2677	0.04%	0.002%
66	6.826	6.765	6.895	VV	547919	5483234	88.40%	4.261%
67	6.911	6.895	6.933	VV	1208	21087	0.34%	0.016%
68	6.946	6.933	6.960	VV	809	10944	0.18%	0.009%
69	6.979	6.960	7.002	VV	2067	27919	0.45%	0.022%
70	7.015	7.002	7.036	VV	675	10635	0.17%	0.008%
71	7.054	7.036	7.082	VV	813	12134	0.20%	0.009%
72	7.110	7.082	7.132	VV	344	7977	0.13%	0.006%
73	7.156	7.132	7.182	VV	397	8838	0.14%	0.007%
74	7.195	7.182	7.211	VV	273	3847	0.06%	0.003%
75	7.231	7.211	7.265	VV	254	5259	0.08%	0.004%
76	7.282	7.265	7.312	VV	705	9151	0.15%	0.007%
77	7.337	7.312	7.350	VV	925	11921	0.19%	0.009%
78	7.369	7.350	7.430	VV	1954	41753	0.67%	0.032%
79	7.466	7.430	7.534	VV	73144	852252	13.74%	0.662%

Instrument :
FID_G
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80	7.549	7.534	7.592	VV	1519	38948	0.63%	0.030%
81	7.605	7.592	7.614	VV	901	1038		
82	7.632	7.614	7.676	VV	3036	4621		
83	7.694	7.676	7.727	VV	606	1620		
84	7.742	7.727	7.754	VV	744	969		
85	7.776	7.754	7.805	VV	3649	44163	0.71%	0.034%
86	7.840	7.805	7.855	VV	536	11960	0.19%	0.009%
87	7.870	7.855	7.900	VV	744	11514	0.19%	0.009%
88	7.915	7.900	7.925	VV	278	3649	0.06%	0.003%
89	7.954	7.925	7.979	VV	680	13104	0.21%	0.010%
90	7.992	7.979	8.020	VV	319	5608	0.09%	0.004%
91	8.044	8.020	8.068	VV	1151	16106	0.26%	0.013%
92	8.096	8.068	8.185	VV	14159	200066	3.23%	0.155%
93	8.215	8.185	8.228	VV	774	15436	0.25%	0.012%
94	8.238	8.228	8.253	VV	670	8544	0.14%	0.007%
95	8.267	8.253	8.295	VV	638	11090	0.18%	0.009%
96	8.309	8.295	8.327	VV	680	8892	0.14%	0.007%
97	8.355	8.327	8.381	VV	3378	42211	0.68%	0.033%
98	8.412	8.381	8.440	VV	2063	31702	0.51%	0.025%
99	8.451	8.440	8.463	VV	461	5268	0.08%	0.004%
100	8.483	8.463	8.508	VV	1053	15428	0.25%	0.012%
101	8.527	8.508	8.551	VV	504	10095	0.16%	0.008%
102	8.571	8.551	8.603	VV	1041	17571	0.28%	0.014%
103	8.621	8.603	8.630	VV	503	6884	0.11%	0.005%
104	8.668	8.630	8.746	VV	541741	5800849	93.52%	4.508%
105	8.778	8.746	8.840	VV	20272	280473	4.52%	0.218%
106	8.856	8.840	8.882	VV	1311	26386	0.43%	0.021%
107	8.899	8.882	8.935	VV	1282	24849	0.40%	0.019%
108	8.980	8.935	9.055	VV	60967	861510	13.89%	0.669%
109	9.078	9.055	9.148	VV	57141	691964	11.16%	0.538%
110	9.159	9.148	9.188	VV	1654	33553	0.54%	0.026%
111	9.209	9.188	9.250	VV	2486	55974	0.90%	0.043%
112	9.269	9.250	9.308	VV	879	22441	0.36%	0.017%
113	9.328	9.308	9.348	VV	727	13082	0.21%	0.010%
114	9.395	9.348	9.416	VV	2615	51190	0.83%	0.040%
115	9.431	9.416	9.466	VV	1412	31603	0.51%	0.025%
116	9.513	9.466	9.571	VV	2813	84393	1.36%	0.066%
117	9.588	9.571	9.611	VV	963	13981	0.23%	0.011%
118	9.634	9.611	9.665	VV	556	9880	0.16%	0.008%
119	9.686	9.665	9.702	VV	329	5665	0.09%	0.004%
120	9.717	9.702	9.771	VV	347	11443	0.18%	0.009%
121	9.800	9.771	9.844	VV	632	14920	0.24%	0.012%
122	9.875	9.844	9.905	VV	3926	60788	0.98%	0.047%
123	9.919	9.905	9.949	VV	932	15330	0.25%	0.012%
124	9.963	9.949	9.986	VV	425	6794	0.11%	0.005%
125	10.012	9.986	10.038	VV	852	15101	0.24%	0.012%
126	10.061	10.038	10.081	VV	2290	27387	0.44%	0.021%

Instrument :
FID_G
ClientSampleId :

rteres

127	10.094	10.081	10.181	VV	603	14180	0.23%	0.011%
128	10.203	10.181	10.246	VV	581	1147		
129	10.286	10.246	10.445	VV	541795	606998		
130	10.455	10.445	10.481	VV	339	468		
131	10.504	10.481	10.517	VV	147	233		
132	10.561	10.517	10.580	VV	268	5644	0.09%	0.004%
133	10.607	10.580	10.646	VV	415	10104	0.16%	0.008%
134	10.679	10.646	10.699	VV	747	13532	0.22%	0.011%
135	10.720	10.699	10.740	VV	533	9340	0.15%	0.007%
136	10.765	10.740	10.788	VV	386	8105	0.13%	0.006%
137	10.811	10.788	10.829	VV	323	5912	0.10%	0.005%
138	10.838	10.829	10.861	VV	224	3002	0.05%	0.002%
139	10.888	10.861	10.902	VV	393	6330	0.10%	0.005%
140	10.924	10.902	10.941	VV	435	7782	0.13%	0.006%
141	10.970	10.941	10.993	VV	600	13686	0.22%	0.011%
142	11.028	10.993	11.067	VV	1120	22934	0.37%	0.018%
143	11.108	11.067	11.126	VV	537	14284	0.23%	0.011%
144	11.158	11.126	11.186	VV	1355	24857	0.40%	0.019%
145	11.205	11.186	11.235	VV	242	6213	0.10%	0.005%
146	11.248	11.235	11.268	VV	330	4953	0.08%	0.004%
147	11.298	11.268	11.337	VV	1663	31892	0.51%	0.025%
148	11.374	11.337	11.441	VV	2376	66108	1.07%	0.051%
149	11.457	11.441	11.475	VV	779	11768	0.19%	0.009%
150	11.484	11.475	11.511	VV	356	5268	0.08%	0.004%
151	11.539	11.511	11.581	VV	1384	17397	0.28%	0.014%
152	11.594	11.581	11.616	PV	96	1373	0.02%	0.001%
153	11.625	11.616	11.636	VV	78	552	0.01%	0.000%
154	11.668	11.636	11.692	PV	1171	15035	0.24%	0.012%
155	11.740	11.692	11.825	VV	522682	6066721	97.80%	4.714%
156	11.827	11.825	11.936	VV	684	13344	0.22%	0.010%
157	11.964	11.936	11.995	VV	152	3129	0.05%	0.002%
158	12.060	11.995	12.076	VV	333	8317	0.13%	0.006%
159	12.093	12.076	12.111	VV	326	5571	0.09%	0.004%
160	12.131	12.111	12.156	VV	535	9017	0.15%	0.007%
161	12.198	12.156	12.242	VV	514	13315	0.21%	0.010%
162	12.256	12.242	12.278	VV	106	1284	0.02%	0.001%
163	12.407	12.278	12.438	PV	984	34946	0.56%	0.027%
164	12.456	12.438	12.482	VV	509	8594	0.14%	0.007%
165	12.510	12.482	12.527	VV	267	4624	0.07%	0.004%
166	12.551	12.527	12.598	VV	459	12094	0.19%	0.009%
167	12.632	12.598	12.667	VV	967	22092	0.36%	0.017%
168	12.703	12.667	12.730	VV	619	15785	0.25%	0.012%
169	12.748	12.730	12.761	VV	433	6028	0.10%	0.005%
170	12.782	12.761	12.807	VV	587	10594	0.17%	0.008%
171	12.881	12.807	12.897	VV	2067	41976	0.68%	0.033%
172	12.913	12.897	12.966	VV	2271	33615	0.54%	0.026%
173	12.994	12.966	13.020	VV	1569	22900	0.37%	0.018%
174	13.061	13.020	13.120	VV	530920	6202933	100.00%	4.820%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

Instrument :
FID_G
ClientSampleId :

rteres

175	13.139	13.120	13.168	VV	647	14381	0.23%	0.011%
176	13.175	13.168	13.241	VV	312	768		
177	13.254	13.241	13.291	VV	116	205		
178	13.331	13.291	13.366	PV	292	866		
179	13.384	13.366	13.402	VV	197	253		
180	13.432	13.402	13.472	VV	1425	31815	0.51%	0.025%
181	13.510	13.472	13.596	VV	454743	5312537	85.65%	4.128%
182	13.622	13.596	13.637	VV	582	10718	0.17%	0.008%
183	13.677	13.637	13.838	VV	501953	5962764	96.13%	4.633%
184	13.884	13.838	13.914	VV	299	7418	0.12%	0.006%
185	13.948	13.914	13.991	VBA	405	11438	0.18%	0.009%
186	14.022	13.991	14.038	BV	354	4496	0.07%	0.003%
187	14.055	14.038	14.081	VV	650	9069	0.15%	0.007%
188	14.106	14.081	14.154	VV	1010	16320	0.26%	0.013%
189	14.174	14.154	14.183	VV	162	1844	0.03%	0.001%
190	14.211	14.183	14.229	VV	1161	15372	0.25%	0.012%
191	14.268	14.229	14.378	VV	482150	5874964	94.71%	4.565%
192	14.398	14.378	14.425	VV	220	3002	0.05%	0.002%
193	14.496	14.425	14.540	PV	224	7726	0.12%	0.006%
194	14.564	14.540	14.580	PV	139	2288	0.04%	0.002%
195	14.598	14.580	14.612	VV	150	2129	0.03%	0.002%
196	14.705	14.612	14.752	VV	1328	25104	0.40%	0.020%
197	14.790	14.752	14.808	VV	221	4899	0.08%	0.004%
198	14.831	14.808	14.878	VV	1789	23724	0.38%	0.018%
199	14.928	14.878	14.937	VV	173	4164	0.07%	0.003%
200	14.969	14.937	15.015	VV	258	7038	0.11%	0.005%
201	15.036	15.015	15.065	VV	152	2450	0.04%	0.002%
202	15.151	15.065	15.167	VV	301	10910	0.18%	0.008%
203	15.185	15.167	15.206	VV	295	4936	0.08%	0.004%
204	15.231	15.206	15.271	VV	313	5364	0.09%	0.004%
205	15.332	15.271	15.341	PV	1141	14829	0.24%	0.012%
206	15.380	15.341	15.496	VV	444226	5784468	93.25%	4.495%
207	15.542	15.496	15.597	VV	345	8373	0.13%	0.007%
208	15.607	15.597	15.641	PV	130	1925	0.03%	0.001%
209	15.714	15.641	15.724	VV	153	4502	0.07%	0.003%
210	15.743	15.724	15.770	VV	170	3022	0.05%	0.002%
211	15.805	15.770	15.818	VV	191	3710	0.06%	0.003%
212	15.825	15.818	15.836	VV	155	1527	0.02%	0.001%
213	15.859	15.836	15.870	VV	244	4152	0.07%	0.003%
214	15.899	15.870	15.981	VV	3251	51308	0.83%	0.040%
215	16.058	15.981	16.068	VV	234	7558	0.12%	0.006%
216	16.076	16.068	16.121	VV	222	4632	0.07%	0.004%
217	16.129	16.121	16.138	VV	180	1480	0.02%	0.001%
218	16.147	16.138	16.175	VV	134	2343	0.04%	0.002%
219	16.225	16.175	16.243	VV	345	8586	0.14%	0.007%
220	16.280	16.243	16.311	VV	248	8176	0.13%	0.006%
221	16.321	16.311	16.328	VV	147	988	0.02%	0.001%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

Instrument :
FID_G
ClientSampleId :

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

rteres

222	16.408	16.328	16.490	VV	426919	5564549	89.71%	4.324%
223	16.500	16.490	16.521	VV	161	177		
224	16.614	16.521	16.641	PV	192	629		
225	16.720	16.641	16.735	PV	234	569		
226	16.781	16.735	16.815	VV	227	807		
227	16.891	16.815	16.935	VV	4204	68652	1.11%	0.053%
228	16.968	16.935	16.991	VV	444	10651	0.17%	0.008%
229	17.093	16.991	17.122	VV	912	38942	0.63%	0.030%
230	17.192	17.122	17.208	VV	673	27551	0.44%	0.021%
231	17.243	17.208	17.266	VV	914	24610	0.40%	0.019%
232	17.364	17.266	17.435	VV	393831	5402749	87.10%	4.198%
233	17.458	17.435	17.475	VV	863	18643	0.30%	0.014%
234	17.486	17.475	17.508	VV	759	13599	0.22%	0.011%
235	17.511	17.508	17.528	VV	673	7292	0.12%	0.006%
236	17.553	17.528	17.584	VV	717	21833	0.35%	0.017%
237	17.621	17.584	17.638	VV	671	19322	0.31%	0.015%
238	17.657	17.638	17.671	VV	526	9095	0.15%	0.007%
239	17.693	17.671	17.727	VV	564	13393	0.22%	0.010%
240	17.814	17.727	17.851	VV	7374	109561	1.77%	0.085%
241	17.861	17.851	17.878	VV	152	1470	0.02%	0.001%
242	17.929	17.878	17.957	PV	614	8865	0.14%	0.007%
243	18.056	17.957	18.068	VV	111	5334	0.09%	0.004%
244	18.146	18.068	18.183	PV	4708	76447	1.23%	0.059%
245	18.258	18.183	18.321	VV	390303	5351980	86.28%	4.159%
246	18.353	18.321	18.365	VV	1195	27293	0.44%	0.021%
247	18.440	18.365	18.480	VV	2100	110250	1.78%	0.086%
248	18.531	18.480	18.545	VV	1557	53014	0.85%	0.041%
249	18.571	18.545	18.593	VV	2005	47544	0.77%	0.037%
250	18.615	18.593	18.627	VV	1640	29731	0.48%	0.023%
251	18.680	18.627	18.718	VV	9723	190488	3.07%	0.148%
252	18.783	18.718	18.802	VV	2053	77353	1.25%	0.060%
253	18.815	18.802	18.842	VV	1529	33531	0.54%	0.026%
254	18.856	18.842	18.865	VV	1208	15782	0.25%	0.012%
255	18.952	18.865	18.961	VV	1525	73017	1.18%	0.057%
256	18.991	18.961	19.010	VV	1639	42718	0.69%	0.033%
257	19.097	19.010	19.154	VV	377818	5322926	85.81%	4.136%
258	19.183	19.154	19.228	VV	2806	79156	1.28%	0.062%
259	19.254	19.228	19.288	VV	1500	37993	0.61%	0.030%
260	19.298	19.288	19.325	VV	652	10842	0.17%	0.008%
261	19.348	19.325	19.373	VV	590	11149	0.18%	0.009%
262	19.423	19.373	19.444	PV	897	14442	0.23%	0.011%
263	19.493	19.444	19.521	PV	10054	146711	2.37%	0.114%
264	19.545	19.521	19.555	VV	835	15409	0.25%	0.012%
265	19.659	19.555	19.681	VV	2641	121069	1.95%	0.094%
266	19.751	19.681	19.760	VV	3386	131739	2.12%	0.102%
267	19.798	19.760	19.807	VV	3804	101682	1.64%	0.079%
268	19.886	19.807	19.951	VV	370967	5560180	89.64%	4.321%
269	20.035	19.951	20.047	VV	6962	373846	6.03%	0.290%

Instrument :
FID_G
ClientSampleId :

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/02/2025
Supervised By :Sohil Jodhani 10/02/2025

rteres

270	20.176	20.047	20.205	VV	8999	723666	11.67%	0.562%
271	20.260	20.205	20.291	VV	14316	51914		
272	20.448	20.291	20.472	VV	11280	105335		
273	20.535	20.472	20.562	VV	12257	62174		
274	20.631	20.562	20.691	VV	361921	598364		
275	20.711	20.691	20.735	VV	15488	396870	6.40%	0.308%
276	20.790	20.735	20.825	VV	15782	832192	13.42%	0.647%
277	20.853	20.825	20.890	VV	15180	573543	9.25%	0.446%
278	20.916	20.890	20.940	VV	14285	422995	6.82%	0.329%
279	20.998	20.940	21.048	VV	17419	946352	15.26%	0.735%
280	21.091	21.048	21.101	VV	13483	417039	6.72%	0.324%
281	21.192	21.101	21.340	VV	18887	2180485	35.15%	1.694%
282	21.415	21.340	21.498	VV	276941	6013631	96.95%	4.673%
283	21.520	21.498	21.555	VV	10025	329570	5.31%	0.256%
284	21.580	21.555	21.616	VV	9616	332456	5.36%	0.258%
285	21.643	21.616	21.658	VV	8455	207257	3.34%	0.161%
286	21.722	21.658	21.730	VV	8899	371204	5.98%	0.288%
287	21.762	21.730	21.802	VV	9176	381587	6.15%	0.297%
288	21.810	21.802	21.843	VV	7986	188887	3.05%	0.147%
289	21.883	21.843	21.918	VV	8667	349945	5.64%	0.272%
290	21.944	21.918	21.993	VV	7152	297947	4.80%	0.232%
291	22.006	21.993	22.043	VV	5825	160231	2.58%	0.125%
292	22.103	22.043	22.125	VV	5287	244723	3.95%	0.190%
293	22.129	22.125	22.151	VV	4946	77102	1.24%	0.060%
294	22.175	22.151	22.241	VV	4719	221021	3.56%	0.172%
295	22.265	22.241	22.301	VV	3060	96236	1.55%	0.075%
296	22.411	22.301	22.525	VV	181726	5034868	81.17%	3.912%
297	22.548	22.525	22.576	VV	1065	23065	0.37%	0.018%

Sum of corrected areas: 128690711

Aliphatic EPH 092425.M Sat Sep 27 00:31:35 2025

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

Manual Integration Report

Sequence:	FC092325AL	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:	FC092625AL	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:	FD090425AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FD049718.D	Bnezo[k]fluoranthene (C30.14)	yogesh	9/5/2025 7:31:48 AM	mohammad	9/8/2025 4:38:38	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FD092625AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FD100125AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FF092425AR	Instrument	FID_f

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:	FF092525AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3178-01MS	FF016457.D	Bnezo[k]fluoranthene (C30.14)	yogesh	9/26/2025 7:34:27 AM	Sohil	9/26/2025 3:57:22	Peak Integrated by Software
Q3178-01MS	FF016457.D	Dibenz[a,h]anthracene (C30.36)	yogesh	9/26/2025 7:34:27 AM	Sohil	9/26/2025 3:57:22	Peak Integrated by Software
Q3178-01MSD	FF016458.D	Bnezo[k]fluoranthene (C30.14)	yogesh	9/26/2025 7:34:29 AM	Sohil	9/26/2025 3:57:25	Peak Integrated by Software
Q3178-01MSD	FF016458.D	Dibenz[a,h]anthracene (C30.36)	yogesh	9/26/2025 7:34:29 AM	Sohil	9/26/2025 3:57:25	Peak Integrated by Software

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

Manual Integration Report

Sequence:	FG092425AL	Instrument	FID_g

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:	FG092525AL	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3192-02	FG016649.D	1-chlorooctadecane (SURR)	yogesh	9/26/2025 7:34:06 AM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Hexatriacontane (C36)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Octatriacontane (C38)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Tetracontane (C40)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016658.D	n-Tetratriacontane (C34)	yogesh	9/29/2025 4:10:46 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
Q3178-02	FG016660.D	n-Hexatriacontane (C36)	yogesh	10/2/2025 1:06:41 PM	Sohil	10/2/2025 1:07:19	Peak Integrated by Software
Q3178-02	FG016660.D	n-Tetratriacontane (C34)	yogesh	10/2/2025 1:06:41 PM	Sohil	10/2/2025 1:07:19	Peak Integrated by Software
Q3178-03	FG016661.D	n-Hexatriacontane (C36)	yogesh	10/2/2025 1:06:42 PM	Sohil	10/2/2025 1:07:22	Peak Integrated by Software
Q3178-03	FG016661.D	n-Tetratriacontane (C34)	yogesh	10/2/2025 1:06:42 PM	Sohil	10/2/2025 1:07:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016663.D	n-Hexatriacontane (C36)	yogesh	9/29/2025 4:10:51 PM	mohammad	9/30/2025 1:27:37	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG016663.D	n-Tetratriacontane (C34)	yogesh	9/29/2025 4:10:51 PM	mohammad	9/30/2025 1:27:37	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 # FC092325AL

Review By	yogesh	Review On	9/23/2025 12:34:12 PM		
Supervise By	mohammad	Supervise On	9/25/2025 2:25:00 AM		
SubDirectory	FC092325AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069823.D	23 Sep 2025 09:03	YP/AJ	Ok
2	I.BLK	FC069824.D	23 Sep 2025 09:47	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC069825.D	23 Sep 2025 10:31	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC069826.D	23 Sep 2025 11:16	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC069827.D	23 Sep 2025 12:02	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC069828.D	23 Sep 2025 12:47	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC069829.D	23 Sep 2025 13:33	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC069830.D	23 Sep 2025 14:19	YP/AJ	Ok
9	I.BLK	FC069831.D	23 Sep 2025 15:05	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC069832.D	23 Sep 2025 15:53	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC092625AL

Review By	yogesh	Review On	9/26/2025 10:12:39 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:00 AM		
SubDirectory	FC092625AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC069851.D	26 Sep 2025 07:44	YP/AJ	Ok
2	I.BLK	FC069852.D	26 Sep 2025 08:26	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC069853.D	26 Sep 2025 09:09	YP/AJ	Ok
4	PB169823BL	FC069854.D	26 Sep 2025 10:37	YP/AJ	Ok
5	PB169823BS	FC069855.D	26 Sep 2025 13:39	YP/AJ	Ok
6	PB169823BSD	FC069856.D	26 Sep 2025 14:25	YP/AJ	Ok
7	I.BLK	FC069857.D	26 Sep 2025 15:17	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD	FC069858.D	26 Sep 2025 16:04	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD090425AR

Review By	yogesh	Review On	9/4/2025 10:41:46 AM		
Supervise By	mohammad	Supervise On	9/8/2025 4:38:38 AM		
SubDirectory	FD090425AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049716.D	04 Sep 2025 08:15	YP/AJ	Ok
2	I.BLK	FD049717.D	04 Sep 2025 08:55	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD049718.D	04 Sep 2025 09:36	YP/AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FD049719.D	04 Sep 2025 10:16	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD049720.D	04 Sep 2025 10:56	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD049721.D	04 Sep 2025 11:38	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD049722.D	04 Sep 2025 12:19	YP/AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FD049723.D	04 Sep 2025 13:00	YP/AJ	Ok
9	I.BLK	FD049724.D	04 Sep 2025 14:24	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD049725.D	04 Sep 2025 15:08	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD092625AR

Review By	yogesh	Review On	9/26/2025 10:13:31 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:06 AM		
SubDirectory	FD092625AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049763.D	26 Sep 2025 07:44	YP/AJ	Ok
2	I.BLK	FD049764.D	26 Sep 2025 08:26	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049765.D	26 Sep 2025 09:09	YP/AJ	Ok
4	Q3178-01	FD049766.D	26 Sep 2025 09:52	YP/AJ	Ok
5	Q3178-01D	FD049767.D	26 Sep 2025 10:37	YP/AJ	Ok
6	Q3178-02	FD049768.D	26 Sep 2025 11:22	YP/AJ	Ok
7	Q3178-03	FD049769.D	26 Sep 2025 12:07	YP/AJ	Ok
8	I.BLK	FD049770.D	26 Sep 2025 12:53	YP/AJ	Ok
9	20 PPM AROMATIC HC STD	FD049771.D	26 Sep 2025 13:39	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD100125AR

Review By	yogesh	Review On	10/1/2025 3:38:16 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:04:55 PM		
SubDirectory	FD100125AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD049781.D	01 Oct 2025 08:17	YP/AJ	Ok
2	I.BLK	FD049782.D	01 Oct 2025 08:58	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD049783.D	01 Oct 2025 09:40	YP/AJ	Ok
4	PB169823BS	FD049784.D	01 Oct 2025 14:56	YP/AJ	Ok
5	PB169823BL	FD049785.D	01 Oct 2025 15:40	YP/AJ	Ok
6	PB169823BSD	FD049786.D	01 Oct 2025 16:25	YP/AJ	Ok
7	I.BLK	FD049787.D	01 Oct 2025 17:10	YP/AJ	Ok
8	20 PPM AROMATIC HC STD	FD049788.D	01 Oct 2025 17:54	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092425AR

Review By	yogesh	Review On	9/24/2025 12:57:21 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:38 AM		
SubDirectory	FF092425AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016429.D	24 Sep 2025 13:00	YP\AJ	Ok
2	I.BLK	FF016430.D	24 Sep 2025 13:30	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF016431.D	24 Sep 2025 13:59	YP\AJ	Ok
4	50 PPM AROMATIC HC STD2	FF016432.D	24 Sep 2025 14:29	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF016433.D	24 Sep 2025 14:59	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF016434.D	24 Sep 2025 15:28	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FF016435.D	24 Sep 2025 15:58	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FF016436.D	24 Sep 2025 16:28	YP\AJ	Ok
9	I.BLK	FF016437.D	24 Sep 2025 17:27	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF016438.D	24 Sep 2025 17:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092525AR

Review By	yogesh	Review On	9/25/2025 2:53:23 PM		
Supervise By	Sohil	Supervise On	9/26/2025 3:57:30 PM		
SubDirectory	FF092525AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016449.D	25 Sep 2025 13:49	YP\AJ	Ok
2	I.BLK	FF016450.D	25 Sep 2025 14:19	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF016451.D	25 Sep 2025 14:49	YP\AJ	Ok
4	Q3192-01	FF016452.D	25 Sep 2025 15:50	YP\AJ	Ok
5	Q3192-02	FF016453.D	25 Sep 2025 16:20	YP\AJ	Ok
6	Q3176-01	FF016454.D	25 Sep 2025 16:52	YP\AJ	Ok
7	Q3178-01	FF016455.D	25 Sep 2025 17:22	YP\AJ	ReRun
8	Q3178-01D	FF016456.D	25 Sep 2025 17:52	YP\AJ	ReRun
9	Q3178-01MS	FF016457.D	25 Sep 2025 18:22	YP\AJ	Not Ok
10	Q3178-01MSD	FF016458.D	25 Sep 2025 18:52	YP\AJ	Not Ok
11	PB169823BL	FF016459.D	25 Sep 2025 19:22	YP\AJ	Not Ok
12	PB169823BS	FF016460.D	25 Sep 2025 19:52	YP\AJ	Not Ok
13	I.BLK	FF016461.D	26 Sep 2025 07:41	YP\AJ	Ok
14	20 PPM AROMATIC HC STD	FF016462.D	26 Sep 2025 08:42	YP\AJ	Ok
15	Q3176-02	FF016463.D	26 Sep 2025 09:11	YP\AJ	Ok
16	Q3176-03	FF016464.D	26 Sep 2025 09:41	YP\AJ	Ok
17	I.BLK	FF016465.D	26 Sep 2025 10:10	YP\AJ	Ok
18	20 PPM AROMATIC HC STD	FF016466.D	26 Sep 2025 10:40	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092425AL

Review By	yogesh	Review On	9/24/2025 1:00:45 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:56 AM		
SubDirectory	FG092425AL	HP Acquire Method		HP Processing Method	FG092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016625.D	24 Sep 2025 13:00	YP\AJ	Ok
2	I.BLK	FG016626.D	24 Sep 2025 13:30	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FG016627.D	24 Sep 2025 13:59	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FG016628.D	24 Sep 2025 14:29	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FG016629.D	24 Sep 2025 14:59	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FG016630.D	24 Sep 2025 15:28	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FG016631.D	24 Sep 2025 15:58	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FG016632.D	24 Sep 2025 16:28	YP\AJ	Ok
9	I.BLK	FG016633.D	24 Sep 2025 17:27	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FG016634.D	24 Sep 2025 17:57	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092525AL

Review By	yogesh	Review On	9/25/2025 2:52:00 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:07:29 PM		
SubDirectory	FG092525AL	HP Acquire Method		HP Processing Method	FG092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG016645.D	25 Sep 2025 14:19	YP\AJ	Ok
2	I.BLK	FG016646.D	25 Sep 2025 14:49	YP\AJ	Ok
3	20 PPM ALIPHATIC HCSTD	FG016647.D	25 Sep 2025 15:19	YP\AJ	Ok
4	Q3192-01	FG016648.D	25 Sep 2025 15:50	YP\AJ	Dilution
5	Q3192-02	FG016649.D	25 Sep 2025 16:20	YP\AJ	Dilution
6	Q3192-01DL	FG016650.D	25 Sep 2025 16:52	YP\AJ	Ok
7	Q3192-02DL	FG016651.D	25 Sep 2025 17:22	YP\AJ	Not Ok
8	Q3192-02DL	FG016652.D	25 Sep 2025 17:52	YP\AJ	Ok
9	Q3176-01	FG016653.D	25 Sep 2025 18:22	YP\AJ	Ok
10	Q3176-02	FG016654.D	25 Sep 2025 18:52	YP\AJ	Ok
11	Q3176-03	FG016655.D	25 Sep 2025 19:22	YP\AJ	Ok
12	Q3178-01	FG016656.D	25 Sep 2025 19:52	YP\AJ	Ok
13	I.BLK	FG016657.D	26 Sep 2025 07:41	YP\AJ	Ok
14	20 PPM ALIPHATIC HC STD	FG016658.D	26 Sep 2025 08:42	YP\AJ	Ok,M
15	Q3178-01D	FG016659.D	26 Sep 2025 09:11	YP\AJ	Ok
16	Q3178-02	FG016660.D	26 Sep 2025 09:41	YP\AJ	Ok,M
17	Q3178-03	FG016661.D	26 Sep 2025 10:10	YP\AJ	Ok,M
18	I.BLK	FG016662.D	26 Sep 2025 10:40	YP\AJ	Ok
19	20 PPM ALIPHATIC HC STD	FG016663.D	26 Sep 2025 11:10	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC092325AL

Review By	yogesh	Review On	9/23/2025 12:34:12 PM		
Supervise By	mohammad	Supervise On	9/25/2025 2:25:00 AM		
SubDirectory	FC092325AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069823.D	23 Sep 2025 09:03		YP/AJ	Ok
2	I.BLK	I.BLK	FC069824.D	23 Sep 2025 09:47		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC069825.D	23 Sep 2025 10:31		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC069826.D	23 Sep 2025 11:16		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069827.D	23 Sep 2025 12:02		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC069828.D	23 Sep 2025 12:47		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC069829.D	23 Sep 2025 13:33		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069830.D	23 Sep 2025 14:19		YP/AJ	Ok
9	I.BLK	I.BLK	FC069831.D	23 Sep 2025 15:05		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069832.D	23 Sep 2025 15:53		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC092625AL

Review By	yogesh	Review On	9/26/2025 10:12:39 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:00 AM		
SubDirectory	FC092625AL	HP Acquire Method		HP Processing Method	FC092325AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC069851.D	26 Sep 2025 07:44		YP/AJ	Ok
2	I.BLK	I.BLK	FC069852.D	26 Sep 2025 08:26		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069853.D	26 Sep 2025 09:09		YP/AJ	Ok
4	PB169823BL	PB169823BL	FC069854.D	26 Sep 2025 10:37		YP/AJ	Ok
5	PB169823BS	PB169823BS	FC069855.D	26 Sep 2025 13:39		YP/AJ	Ok
6	PB169823BSD	PB169823BSD	FC069856.D	26 Sep 2025 14:25		YP/AJ	Ok
7	I.BLK	I.BLK	FC069857.D	26 Sep 2025 15:17		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC069858.D	26 Sep 2025 16:04		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD090425AR

Review By	yogesh	Review On	9/4/2025 10:41:46 AM		
Supervise By	mohammad	Supervise On	9/8/2025 4:38:38 AM		
SubDirectory	FD090425AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049716.D	04 Sep 2025 08:15		YP/AJ	Ok
2	I.BLK	I.BLK	FD049717.D	04 Sep 2025 08:55		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD049718.D	04 Sep 2025 09:36		YP/AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD049719.D	04 Sep 2025 10:16		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049720.D	04 Sep 2025 10:56		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD049721.D	04 Sep 2025 11:38		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD049722.D	04 Sep 2025 12:19		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049723.D	04 Sep 2025 13:00		YP/AJ	Ok
9	I.BLK	I.BLK	FD049724.D	04 Sep 2025 14:24		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049725.D	04 Sep 2025 15:08		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD092625AR

Review By	yogesh	Review On	9/26/2025 10:13:31 AM		
Supervise By	mohammad	Supervise On	9/30/2025 1:28:06 AM		
SubDirectory	FD092625AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049763.D	26 Sep 2025 07:44		YP/AJ	Ok
2	I.BLK	I.BLK	FD049764.D	26 Sep 2025 08:26		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049765.D	26 Sep 2025 09:09		YP/AJ	Ok
4	Q3178-01	EME-TS14-01	FD049766.D	26 Sep 2025 09:52		YP/AJ	Ok
5	Q3178-01D	Q3178-01D	FD049767.D	26 Sep 2025 10:37		YP/AJ	Ok
6	Q3178-02	Q3178-02	FD049768.D	26 Sep 2025 11:22	FD049766.D	YP/AJ	Ok
7	Q3178-03	Q3178-03	FD049769.D	26 Sep 2025 12:07	FD049766.D!FD049768.D	YP/AJ	Ok
8	I.BLK	I.BLK	FD049770.D	26 Sep 2025 12:53		YP/AJ	Ok
9	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049771.D	26 Sep 2025 13:39		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 # FD100125AR

Review By	yogesh	Review On	10/1/2025 3:38:16 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:04:55 PM		
SubDirectory	FD100125AR	HP Acquire Method		HP Processing Method	FD090425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD049781.D	01 Oct 2025 08:17		YP/AJ	Ok
2	I.BLK	I.BLK	FD049782.D	01 Oct 2025 08:58		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049783.D	01 Oct 2025 09:40		YP/AJ	Ok
4	PB169823BS	PB169823BS	FD049784.D	01 Oct 2025 14:56		YP/AJ	Ok
5	PB169823BL	PB169823BL	FD049785.D	01 Oct 2025 15:40		YP/AJ	Ok
6	PB169823BSD	PB169823BSD	FD049786.D	01 Oct 2025 16:25		YP/AJ	Ok
7	I.BLK	I.BLK	FD049787.D	01 Oct 2025 17:10		YP/AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD049788.D	01 Oct 2025 17:54		YP/AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092425AR

Review By	yogesh	Review On	9/24/2025 12:57:21 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:38 AM		
SubDirectory	FF092425AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF016429.D	24 Sep 2025 13:00		YP\AJ	Ok
2	I.BLK	I.BLK	FF016430.D	24 Sep 2025 13:30		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF016431.D	24 Sep 2025 13:59		YP\AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF016432.D	24 Sep 2025 14:29		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016433.D	24 Sep 2025 14:59		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF016434.D	24 Sep 2025 15:28		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF016435.D	24 Sep 2025 15:58		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016436.D	24 Sep 2025 16:28		YP\AJ	Ok
9	I.BLK	I.BLK	FF016437.D	24 Sep 2025 17:27		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016438.D	24 Sep 2025 17:57		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092525AR

Review By	yogesh	Review On	9/25/2025 2:53:23 PM		
Supervise By	Sohil	Supervise On	9/26/2025 3:57:30 PM		
SubDirectory	FF092525AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF016449.D	25 Sep 2025 13:49		YP\AJ	Ok
2	I.BLK	I.BLK	FF016450.D	25 Sep 2025 14:19		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016451.D	25 Sep 2025 14:49		YP\AJ	Ok
4	Q3192-01	RB104	FF016452.D	25 Sep 2025 15:50		YP\AJ	Ok
5	Q3192-02	RB105	FF016453.D	25 Sep 2025 16:20		YP\AJ	Ok
6	Q3176-01	EME-TS12-01	FF016454.D	25 Sep 2025 16:52		YP\AJ	Ok
7	Q3178-01	EME-TS14-01	FF016455.D	25 Sep 2025 17:22	Surrogate fail	YP\AJ	ReRun
8	Q3178-01D	Q3178-01D	FF016456.D	25 Sep 2025 17:52	Surrogate fail	YP\AJ	ReRun
9	Q3178-01MS	Q3178-01MS	FF016457.D	25 Sep 2025 18:22	FF016455.D,MSD not ok	YP\AJ	Not Ok
10	Q3178-01MSD	Q3178-01MSD	FF016458.D	25 Sep 2025 18:52	FF016455.D!FF016457.D,Surrogate fail	YP\AJ	Not Ok
11	PB169823BL	PB169823BL	FF016459.D	25 Sep 2025 19:22	Surrogate fail	YP\AJ	Not Ok
12	PB169823BS	PB169823BS	FF016460.D	25 Sep 2025 19:52	Recovery fail	YP\AJ	Not Ok
13	I.BLK	I.BLK	FF016461.D	26 Sep 2025 07:41		YP\AJ	Ok
14	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016462.D	26 Sep 2025 08:42		YP\AJ	Ok
15	Q3176-02	EME-TS13-01	FF016463.D	26 Sep 2025 09:11		YP\AJ	Ok
16	Q3176-03	EME-TS14-02	FF016464.D	26 Sep 2025 09:41		YP\AJ	Ok
17	I.BLK	I.BLK	FF016465.D	26 Sep 2025 10:10		YP\AJ	Ok

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Fax : 908 789 8922

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF092525AR

Review By	yogesh	Review On	9/25/2025 2:53:23 PM		
Supervise By	Sohil	Supervise On	9/26/2025 3:57:30 PM		
SubDirectory	FF092525AR	HP Acquire Method		HP Processing Method	FF092425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC	PP24503
Internal Standard/PEM	
ICV/I.BLK	PP24501,PP24506
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016466.D	26 Sep 2025 10:40		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092425AL

Review By	yogesh	Review On	9/24/2025 1:00:45 PM		
Supervise By	mohammad	Supervise On	9/26/2025 4:25:56 AM		
SubDirectory	FG092425AL	HP Acquire Method		HP Processing Method	FG092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG016625.D	24 Sep 2025 13:00		YP\AJ	Ok
2	I.BLK	I.BLK	FG016626.D	24 Sep 2025 13:30		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FG016627.D	24 Sep 2025 13:59		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FG016628.D	24 Sep 2025 14:29		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016629.D	24 Sep 2025 14:59		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FG016630.D	24 Sep 2025 15:28		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FG016631.D	24 Sep 2025 15:58		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016632.D	24 Sep 2025 16:28		YP\AJ	Ok
9	I.BLK	I.BLK	FG016633.D	24 Sep 2025 17:27		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016634.D	24 Sep 2025 17:57		YP\AJ	Ok

M : Manual Integration

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092525AL

Review By	yogesh	Review On	9/25/2025 2:52:00 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:07:29 PM		
SubDirectory	FG092525AL	HP Acquire Method		HP Processing Method	FG092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG016645.D	25 Sep 2025 14:19		YP\AJ	Ok
2	I.BLK	I.BLK	FG016646.D	25 Sep 2025 14:49		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016647.D	25 Sep 2025 15:19		YP\AJ	Ok
4	Q3192-01	RB104	FG016648.D	25 Sep 2025 15:50	Need dilution	YP\AJ	Dilution
5	Q3192-02	RB105	FG016649.D	25 Sep 2025 16:20	Need dilution	YP\AJ	Dilution
6	Q3192-01DL	RB104DL	FG016650.D	25 Sep 2025 16:52		YP\AJ	Ok
7	Q3192-02DL	RB105DL	FG016651.D	25 Sep 2025 17:22	Need more dilution	YP\AJ	Not Ok
8	Q3192-02DL	RB105DL	FG016652.D	25 Sep 2025 17:52		YP\AJ	Ok
9	Q3176-01	EME-TS12-01	FG016653.D	25 Sep 2025 18:22		YP\AJ	Ok
10	Q3176-02	EME-TS13-01	FG016654.D	25 Sep 2025 18:52		YP\AJ	Ok
11	Q3176-03	EME-TS14-02	FG016655.D	25 Sep 2025 19:22		YP\AJ	Ok
12	Q3178-01	EME-TS14-01	FG016656.D	25 Sep 2025 19:52		YP\AJ	Ok
13	I.BLK	I.BLK	FG016657.D	26 Sep 2025 07:41		YP\AJ	Ok
14	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016658.D	26 Sep 2025 08:42		YP\AJ	Ok,M
15	Q3178-01D	Q3178-01D	FG016659.D	26 Sep 2025 09:11		YP\AJ	Ok
16	Q3178-02	Q3178-02	FG016660.D	26 Sep 2025 09:41	FG016656.D	YP\AJ	Ok,M
17	Q3178-03	Q3178-03	FG016661.D	26 Sep 2025 10:10	FG016656.D!FG016660.D	YP\AJ	Ok,M
18	I.BLK	I.BLK	FG016662.D	26 Sep 2025 10:40		YP\AJ	Ok

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

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG092525AL

Review By	yogesh	Review On	9/25/2025 2:52:00 PM		
Supervise By	Sohil	Supervise On	10/2/2025 1:07:29 PM		
SubDirectory	FG092525AL	HP Acquire Method		HP Processing Method	FG092425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG016663.D	26 Sep 2025 11:10		YP\AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 9/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 09/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137296

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
Q3170-01	MOD-25-0271	1	1.00	1.00	2.00	2.00	100.0	oil sample
Q3170-02	MOD-25-0271	2	1.00	1.00	2.00	2.00	100.0	oil sample
Q3176-01	EME-TS12-01	3	1.15	10.61	11.76	8.16	66.1	
Q3176-02	EME-TS13-01	4	1.18	10.37	11.55	8.27	68.4	
Q3176-03	EME-TS14-02	5	1.13	10.35	11.48	8.37	70.0	
Q3178-01	EME-TS14-01	6	1.13	10.74	11.87	8.8	71.4	
Q3178-02	EME-TS14-01MS	7	1.13	10.74	11.87	8.8	71.4	
Q3178-03	EME-TS14-01MSD	8	1.13	10.74	11.87	8.8	71.4	
Q3183-01	WC-1	9	1.18	10.41	11.59	10.09	85.6	
Q3183-02	WC-1-EPH	10	1.19	10.43	11.62	10.19	86.3	
Q3183-03	WC-1-VOC	11	1.13	10.60	11.73	10.55	88.9	
Q3183-04	WC-4	12	1.19	10.56	11.75	10.6	89.1	
Q3183-05	WC-4-EPH	13	1.19	10.49	11.68	9.77	81.8	
Q3183-06	WC-4-VOC	14	1.18	10.63	11.81	10.42	86.9	
Q3183-07	WC-3	15	1.13	10.42	11.55	9.8	83.2	
Q3183-08	WC-3-EPH	16	1.13	10.49	11.62	9.79	82.6	
Q3183-09	WC-3-VOC	17	1.19	10.55	11.74	10.96	92.6	
Q3185-01	Y2404-0048-1-1	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-02	Y2404-0048-1-2	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-03	KMH392P-1-1	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-04	KMH392P-1-2	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-05	EFB430R-1-1	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-06	EFB430R-1-2	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-07	4125-A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-08	4125-B	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-09	4125-C	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-10	4125-D	27	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-11	4125-E	28	1.00	1.00	2.00	2.00	100.0	PILC

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 9/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 09/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:37
Out Date: 09/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137296

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
Q3185-12	4126-A	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-13	4126-B	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-14	4126-C	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-15	4126-D	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3185-16	4126-E	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-01	Y2404-0043-1-1	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-02	Y2404-0043-1-2	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-03	KMA695Y-1-1	36	1.00	1.00	2.00	2.00	100.0	PILC
Q3186-04	KMA695Y-1-2	37	1.00	1.00	2.00	2.00	100.0	PILC
Q3187-01	228	38	1.19	10.67	11.86	10.96	91.6	
Q3187-02	228-E2	39	1.14	10.49	11.63	10.32	87.5	
Q3188-01	4135	40	1.00	1.00	2.00	2.00	100.0	debris
Q3188-02	RB22120	41	1.18	10.32	11.5	10.88	94.0	
Q3188-03	RB22120	42	1.16	10.60	11.76	10.92	92.1	
Q3189-01	72-11989	43	1.15	10.84	11.99	11.33	93.9	
Q3189-02	72-11989-E2	44	1.11	10.67	11.78	11.44	96.8	
Q3191-01	459	45	1.00	1.00	2.00	2.00	100.0	oil sample
Q3192-01	RB104	46	1.15	10.91	12.06	11.49	94.8	
Q3192-02	RB105	47	1.13	10.80	11.93	11.26	93.8	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

Q3176-EPH

WORKLIST(Hardcopy Internal Chain)

VB 137296

WorkList Name : %1-092425 **WorkList ID :** 192050 **Department :** Wet-Chemistry **Date :** 09-24-2025 13:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3170-01	MOD-25-0271	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/23/2025	Chemtech -SO
Q3170-02	MOD-25-0271	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/23/2025	Chemtech -SO
Q3176-01	EME-TS12-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	J43	09/23/2025	Chemtech -SO
Q3176-02	EME-TS13-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	J43	09/23/2025	Chemtech -SO
Q3176-03	EME-TS14-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	J43	09/23/2025	Chemtech -SO
Q3178-01	EME-TS14-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	J33	09/23/2025	Chemtech -SO
Q3178-02	EME-TS14-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	J33	09/23/2025	Chemtech -SO
Q3178-03	EME-TS14-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	J33	09/23/2025	Chemtech -SO
Q3183-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-02	WC-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-03	WC-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-04	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-05	WC-4-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-06	WC-4-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-07	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-08	WC-3-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3183-09	WC-3-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J32	09/24/2025	Chemtech -SO
Q3185-01	Y2404-0048-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-02	Y2404-0048-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-03	KMH392P-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-04	KMH392P-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO

611 of 762

Date/Time 09/24/25 15:25

Raw Sample Received by: PP CWC

Raw Sample Relinquished by: CR

Date/Time 09/24/25 17:35

Raw Sample Received by: CR

Raw Sample Relinquished by: PP CWC

17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Q3176-EPH

WORKLIST(Hardcopy Internal Chain)

VB137296

WorkList Name : %1-092425 **WorkList ID :** 192050 **Department :** Wet-Chemistry **Date :** 09-24-2025 13:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3185-05	EFB430R-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-06	EFB430R-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-07	4125-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-08	4125-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-09	4125-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-10	4125-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-11	4125-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-12	4126-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-13	4126-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-14	4126-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-15	4126-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3185-16	4126-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3186-01	Y2404-0043-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/24/2025	Chemtech -SO
Q3186-02	Y2404-0043-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3186-03	KMA695Y-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3186-04	KMA695Y-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J42	09/24/2025	Chemtech -SO
Q3187-01	228	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/24/2025	Chemtech -SO
Q3187-02	228-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J11	09/24/2025	Chemtech -SO
Q3188-01	4135	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/24/2025	Chemtech -SO
Q3188-02	RB22120	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/24/2025	Chemtech -SO
Q3188-03	RB22120	Solid	Percent Solids	Cool 4 deg C	PSEG03	J12	09/24/2025	Chemtech -SO

Date/Time 09/24/25 1525

Raw Sample Received by: TP CW CJ

Raw Sample Relinquished by:

Date/Time 09/24/25 1735

Raw Sample Received by:

Raw Sample Relinquished by: TP CW CJ

WORKLIST(Hardcopy Internal Chain)

VB 137296

WorkList Name : %1-092425 **WorkList ID :** 192050 **Department :** Wet-Chemistry **Date :** 09-24-2025 13:11:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3189-01	72-11989	Solid	Percent Solids	Cool 4 deg C	PSEG03		09/24/2025	Chemtech -SO
Q3189-02	72-11989-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I63	09/24/2025	Chemtech -SO
Q3191-01	459	Solid	Percent Solids	Cool 4 deg C	PSEG03	J41	09/25/2025	Chemtech -SO
Q3192-01	RB104	Solid	Percent Solids	Cool 4 deg C	GENV01	J13	09/24/2025	Chemtech -SO
Q3192-02	RB105	Solid	Percent Solids	Cool 4 deg C	GENV01	J13	09/24/2025	Chemtech -SO

Date/Time 09/24/25 1512

Raw Sample Received by: JB CWC

Raw Sample Relinquished by: CL SM

Date/Time 09/24/25 1735

Raw Sample Received by: CL SM

Raw Sample Relinquished by: JB CWC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169823

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: EH

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 : 09/25/2025

Extraction Start Time : 08:15

Extraction End Date : 09/25/2025

Extraction End Time : 14:45

Concentration By: EH

Supervisor By : ritesh

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	PP24918
Surrogate	1.0ML	100 PPM	PP24866
Fractionation Surrogate	1.0ML	100 PPM	PP24915
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	EP2641
Baked Na2SO4	N/A	EP2639
Sand	N/A	E3951
Hexane	N/A	E3971
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/25/25	RJ (EXT. Lab)	R. Patel / PCB Lab
14:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169823

Analytical Method: MNJDEP-EPH-8 **Concentration Date:** 09/25/2025

Sample ID	Client Sample ID	Test	9 mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169823BL	PB169823BL	EPH	30.01	N/A	ritesh	Evelyn	2			U1-1
PB169823BS	PB169823BS	EPH	30.03	N/A	ritesh	Evelyn	2			2
PB169823BSD	PB169823BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
Q3176-01	EME-TS12-01	EPH	30.06	N/A	ritesh	Evelyn	2	F		4
Q3176-02	EME-TS13-01	EPH	30.08	N/A	ritesh	Evelyn	2	F		5
Q3176-03	EME-TS14-02	EPH	30.07	N/A	ritesh	Evelyn	2	F		6
Q3178-01	EME-TS14-01	EPH	30.03	N/A	ritesh	Evelyn	2	F		U2-1
Q3178-01DUP	EME-TS14-01DUP	EPH	30.05	N/A	ritesh	Evelyn	2	F		2
Q3178-02	EME-TS14-01MS	EPH	30.04	N/A	ritesh	Evelyn	2	F		3
Q3178-03	EME-TS14-01MSD	EPH	30.01	N/A	ritesh	Evelyn	2	F		4
Q3192-01	RB104	EPH	30.03	N/A	ritesh	Evelyn	2	B		5
Q3192-02	RB105	EPH	30.06	N/A	ritesh	Evelyn	2	B		6

RJ
9/25

* **Extracts relinquished on the same date as received.**

Q3176-EPH

09/25 8:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3192 **WorkList ID :** 192068 **Department :** Extraction **Date :** 09-25-2025 08:10:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3176-01	EME-TS12-01	Solid	EPH	Cool 4 deg C	ROYF02	J43	09/23/2025	NJEPH
Q3176-02	EME-TS13-01	Solid	EPH	Cool 4 deg C	ROYF02	J43	09/23/2025	NJEPH
Q3176-03	EME-TS14-02	Solid	EPH	Cool 4 deg C	ROYF02	J43	09/23/2025	NJEPH
Q3178-01	EME-TS14-01	Solid	EPH	Cool 4 deg C	ROYF02	J33	09/23/2025	NJEPH
Q3178-02	EME-TS14-01MS	Solid	EPH	Cool 4 deg C	ROYF02	J33	09/23/2025	NJEPH
Q3178-03	EME-TS14-01MSD	Solid	EPH	Cool 4 deg C	ROYF02	J33	09/23/2025	NJEPH
Q3192-01	RB104	Solid	EPH	Cool 4 deg C	GENV01	J13	09/24/2025	NJEPH
Q3192-02	RB105	Solid	EPH	Cool 4 deg C	GENV01	J13	09/24/2025	NJEPH

Date/Time 09/25/25 8:10
Raw Sample Received by: RJ (TEST-KEB)
Raw Sample Relinquished by: CP

Date/Time 09/25/25 8:25
Raw Sample Received by: CP
Raw Sample Relinquished by: RJ (TEST-KEB)

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Prep Standard - Chemical Standard Summary

Order ID : Q3176

Test : EPH

Prepbatch ID : PB169823,

Sequence ID/Qc Batch ID: FC092625AL,FD092625AR,FD100125AR,FF092525AR,FG092525AL,

Standard ID :
EP2639,EP2641,PP24500,PP24501,PP24502,PP24503,PP24504,PP24505,PP24506,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24866,PP24915,PP24918,

Chemical ID :
E3875,E3926,E3951,E3956,E3963,E3966,E3971,E3972,E3973,P10758,P11140,P12364,P13280,P13281,P13620,P13621,P13623,P13624,P13673,P13674,P13690,P13691,P13692,P13693,P13694,P13954,P13955,P14028,P14058,P14059,P14060,P14061,P14074,P14075,P14076,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,P14101,P14102,P14103,W3234,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2639	09/12/2025	01/28/2026	Riteshkumar Patel	Extraction_SCALE_2 (EX-SC-2)	None	Evelyn Huang 09/12/2025

FROM 4000.00000gram of E3875 = 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	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel 09/16/2025

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
782	100 PPM Aromatic HC Working STD	PP24500	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.25000ml of P13673 + 0.62500ml of P13954 + 1.25000ml of P10758 + 22.87500ml of E3926 = 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)	PP24501	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.25000ml of P13674 + 0.62500ml of P13955 + 1.25000ml of P11140 + 22.87500ml of E3926 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
787	50 PPM Aromatic HC STD	PP24502	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.50000ml of E3926 + 0.50000ml of PP24500 = 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	PP24503	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24500 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
789	10 PPM Aromatic HC STD	PP24504	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24500 = 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	PP24505	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.90000ml of E3926 + 0.10000ml of PP24502 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2946	20 PPM Aromatic HC STD ICV (Absolute)	PP24506	05/01/2025	10/08/2025	Yogesh Patel	None	None	Abdul Mirza 05/08/2025

FROM 0.80000ml of E3926 + 0.20000ml of PP24501 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2900	100 PPM Aliphatic HC STD (Absolute)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
783	50 PPM Aliphatic HC STD	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
784	20 PPM Aliphatic HC STD	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
785	10 PPM Aliphatic HC STD	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
786	5 PPM Aliphatic HC STD	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2901	20 PPM Aliphaitic HC STD ICV (Absolute)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP24866	08/21/2025	02/15/2026	Abdul Mirza	None	None	Yogesh Patel 09/17/2025

FROM 1.25000ml of P13621 + 1.25000ml of P13623 + 1.25000ml of P13624 + 1.25000ml of P13691 + 1.25000ml of P13692 + 1.25000ml of P13693 + 1.25000ml of P13694 + 1.25000ml of P14028 + 490.00000ml of E3963 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1331	100 PPM NJEPH Fractionating Surrogate	PP24915	08/28/2025	02/28/2026	Abdul Mirza	None	None	Yogesh Patel 09/17/2025

FROM 1.25000ml of P14058 + 1.25000ml of P14059 + 1.25000ml of P14060 + 1.25000ml of P14061 + 195.00000ml of E3966 = Final Quantity: 200.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP24918	09/02/2025	03/02/2026	Abdul Mirza	None	None	Yogesh Patel 09/17/2025

FROM 5.00000ml of P14074 + 5.00000ml of P14075 + 5.00000ml of P14076 + 5.00000ml of P14077 + 5.00000ml of P14078 + 5.00000ml of P14079 + 5.00000ml of P14080 + 5.00000ml of P14081 + 5.00000ml of P14082 + 5.00000ml of P14083 + 5.00000ml of P14094 + 5.00000ml of P14095 + 5.00000ml of P14096 + 5.00000ml of P14097 + 5.00000ml of P14098 + 5.00000ml of P14099 + 5.00000ml of P14100 + 5.00000ml of P14101 + 5.00000ml of P14102 + 5.00000ml of P14103 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

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)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

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	02/15/2026	08/15/2025 / RUPESH	08/07/2025 / RUPESH	E3963

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)	25C0362005	04/30/2026	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3966

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	09/15/2025 / Evelyn	09/04/2025 / Riteshkumar	E3971

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0172403	11/01/2025	05/01/2025 / yogesh	06/17/2021 / dhaval	P10758

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	11/01/2025	05/01/2025 / yogesh	10/29/2021 / Abdul	P11140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

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CHEMICAL RECEIPT LOG BOOK

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	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

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	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13621

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13623

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13624

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	11/01/2025	05/01/2025 / yogesh	10/16/2024 / yogesh	P13673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	11/01/2025	05/01/2025 / yogesh	10/16/2024 / yogesh	P13674

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13691

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13692

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13693

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/21/2026	08/21/2025 / Abdul	10/16/2024 / yogesh	P13694

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0219106	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13954

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13955

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	02/21/2026	08/21/2025 / Abdul	06/02/2025 / Rahul	P14028

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14059

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14060

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14061

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14075

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14076

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14077

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14078

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14080

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14083

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14099

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14103

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)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

DD 06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

P10758 to P10762 -(5)

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2,3-Trimethylbenzene **CAS #** 526-73-8 (Lot 8776.10-36) **Purity** 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL +/- 90.5449 µg/mL +/- 100.4678 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene **CAS #** 91-20-3 (Lot MKBZ8680V) **Purity** 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL +/- 90.3656 µg/mL +/- 100.2689 µg/mL	Gravimetric Unstressed Stressed
3	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBG8884) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 90.4557 µg/mL +/- 100.3688 µg/mL	Gravimetric Unstressed Stressed
4	Acenaphthylene **CAS #** 208-96-8 (Lot N19U) **Purity** 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL +/- 90.2125 µg/mL +/- 100.0989 µg/mL	Gravimetric Unstressed Stressed
5	Acenaphthene **CAS #** 83-32-9 (Lot MKCN0610) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 90.0953 µg/mL +/- 99.9689 µg/mL	Gravimetric Unstressed Stressed
6	Fluorene **CAS #** 86-73-7 (Lot 10217947) **Purity** 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 90.8161 µg/mL +/- 100.7687 µg/mL	Gravimetric Unstressed Stressed
7	Phenanthrene **CAS #** 85-01-8 (Lot MKCL7390) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 90.6359 µg/mL +/- 100.5688 µg/mL	Gravimetric Unstressed Stressed

8	Anthracene		2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity 99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene		2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity 99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene		2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity 98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity 99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene		2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity 97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity 99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene		2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity 99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

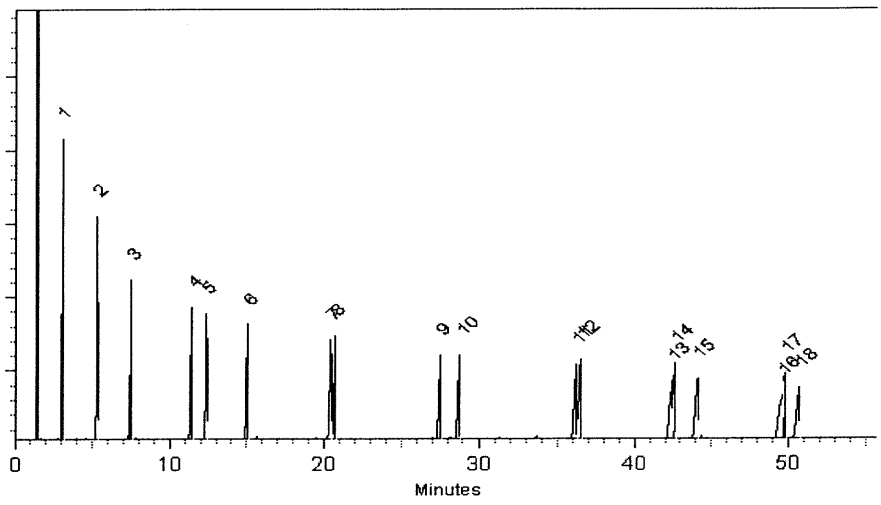
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician

Date Mixed: 14-May-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I

Date Passed: 18-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
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	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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 3926

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

Certificate of Analysis

Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO2
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 7/9/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above.	Analysis may have been rounded to significant digits in specification limits
This document has been electronically produced and is valid without a signature.	Product meets analytical specifications of the grades listed.
Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recieved on 7/16/25

E3956

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

PO: PO2-2575 PRODUCT CODE: SHIP DATE: 6/20/25

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

Recieved on 8/6/25

E 3963

J Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Page 1 of 1

PO: PO2-2575 PRODUCT CODE: SHIP DATE: 6/20/25

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3966

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

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3971

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s):	Lot#
Methylene chloride	104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By:	Benson Chan	060420 DATE
Reviewed By:	Pedro L. Rentas	060420 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3.	Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9.	Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10.	Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11.	Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12.	Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13.	Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14.	2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15.	Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

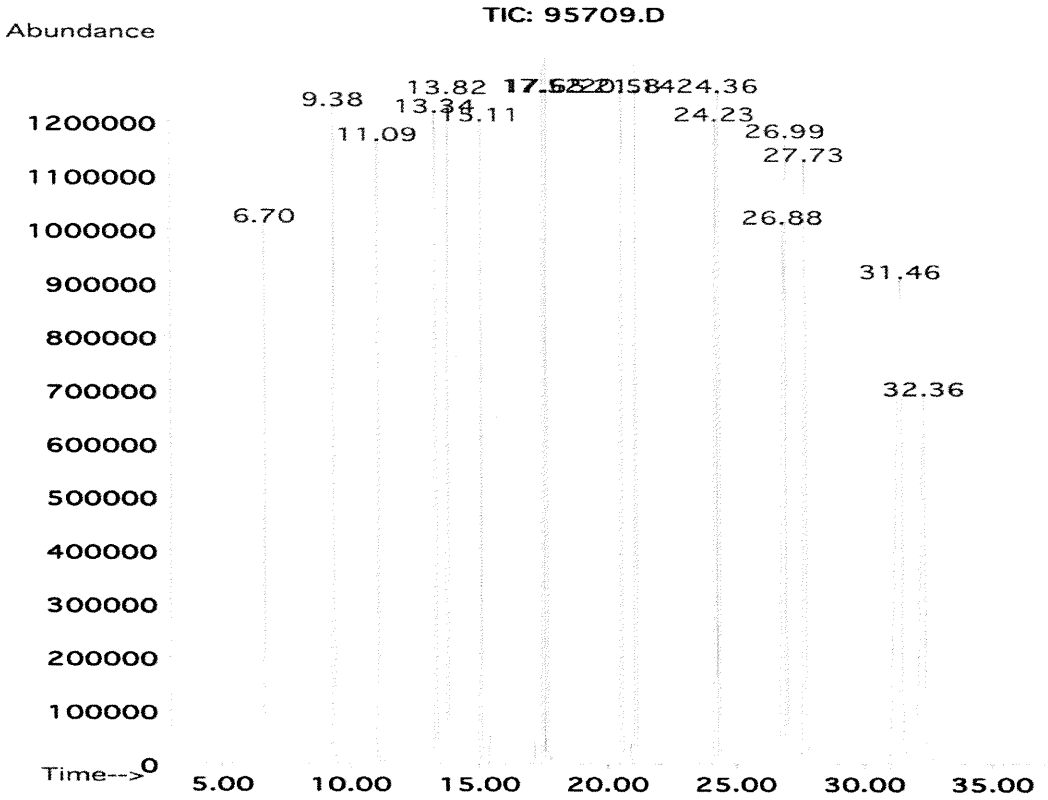
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

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

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.

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)

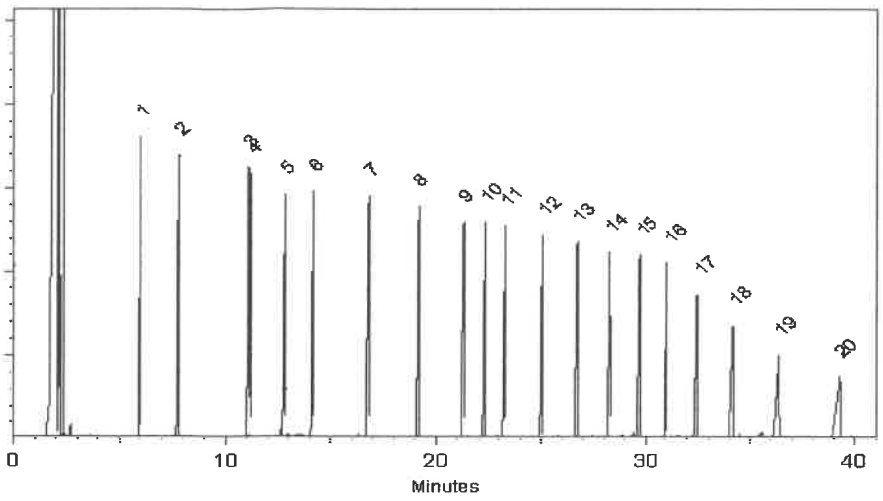
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.

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).

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.
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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.)

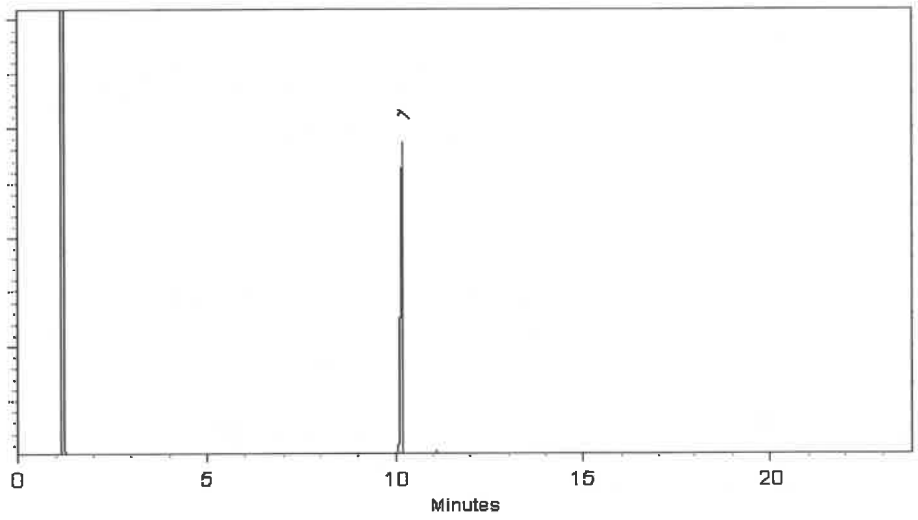
Inj. Temp:
250°C

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

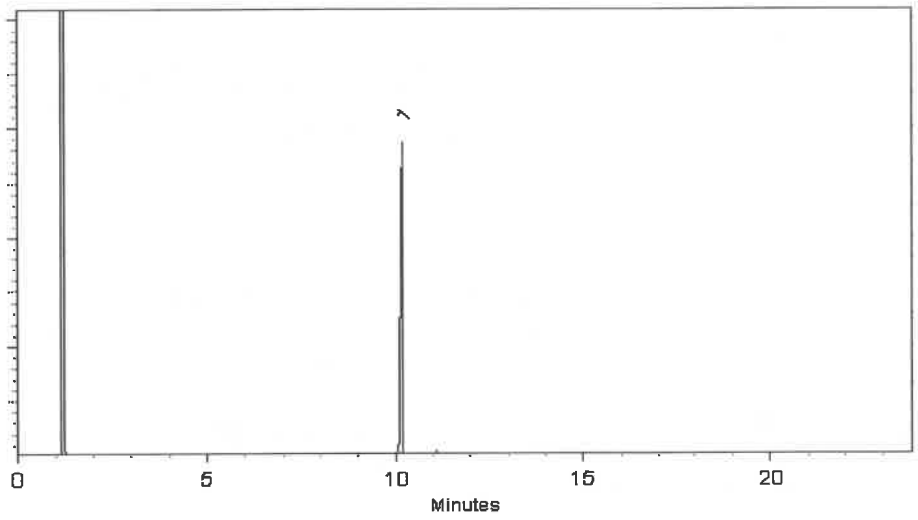
Inj. Temp:
250°C

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

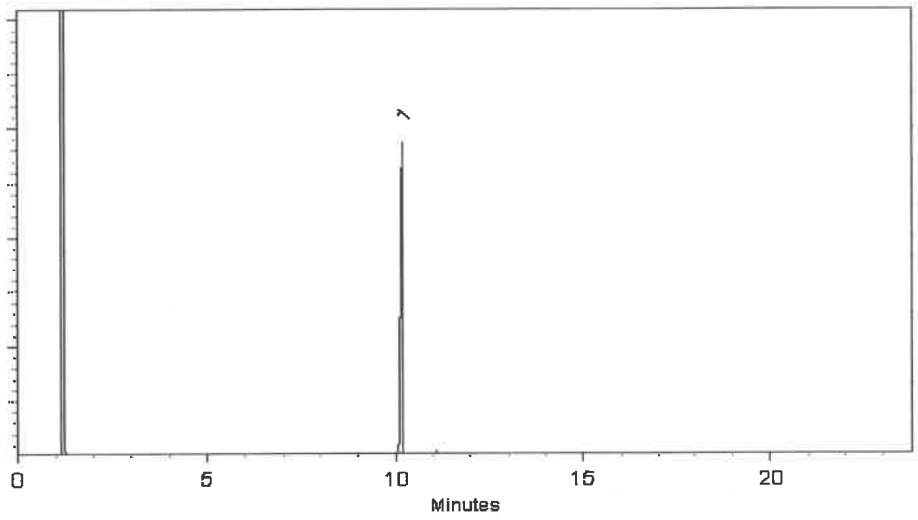
Inj. Temp:
250°C

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.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

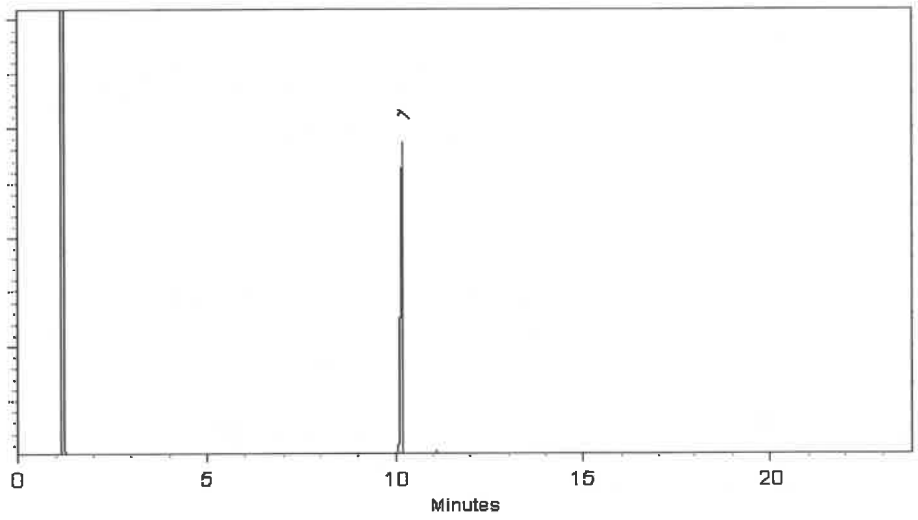
Inj. Temp:
250°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 → P13694 Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

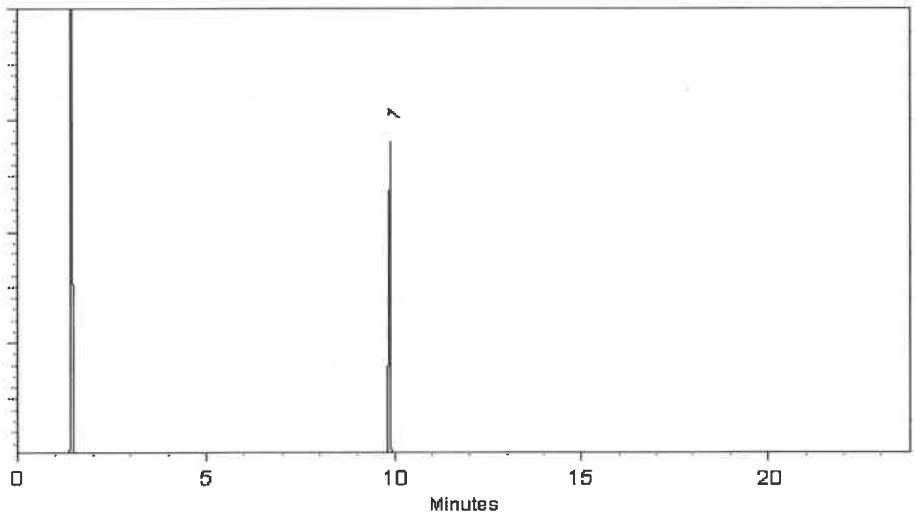
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I **Date Mixed:** 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I **Date Passed:** 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.)

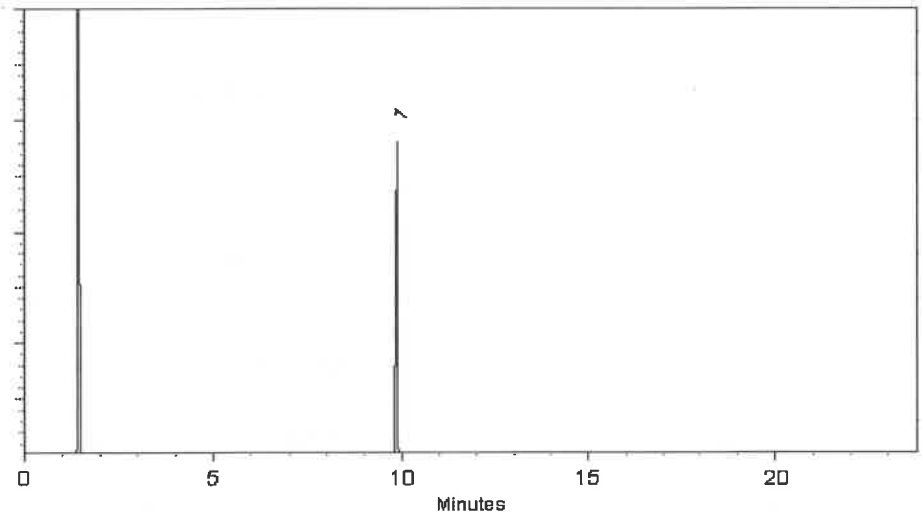
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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.
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Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 → P13694 Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

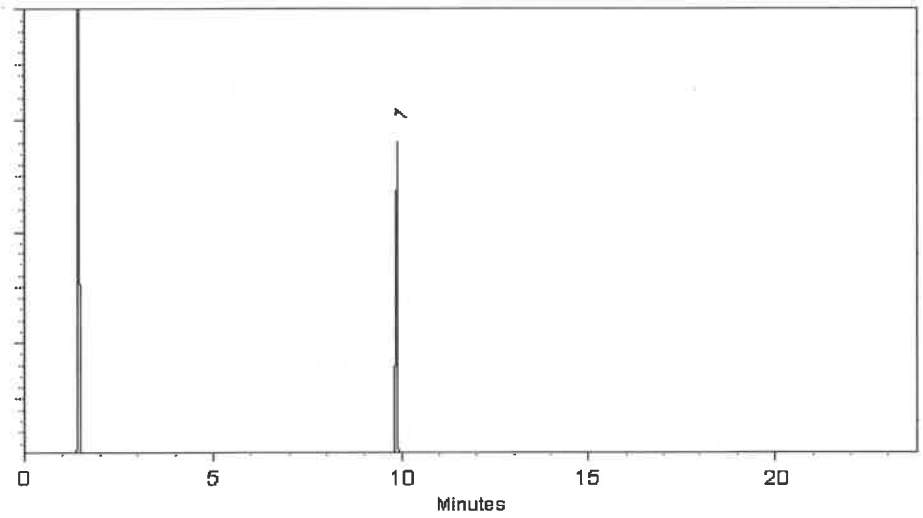
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 ↓ P13694 } Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
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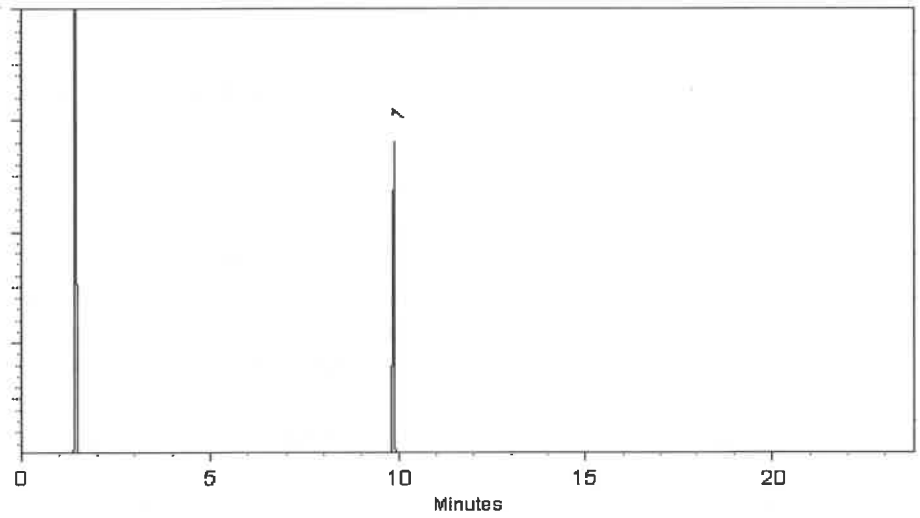
Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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:

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Purity Notes:

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Certified Uncertainty Value Notes:

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Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 → P13694 Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

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Solvent: Methylene chloride
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Rtx-5 (cat.#10223)

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hydrogen-constant pressure 10 psi.

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75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

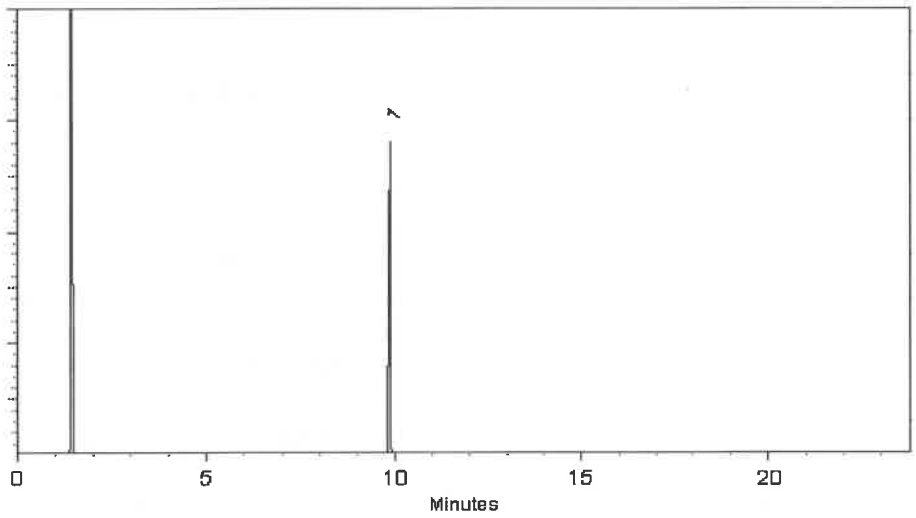
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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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:

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- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13645 ↓ P13694 } Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

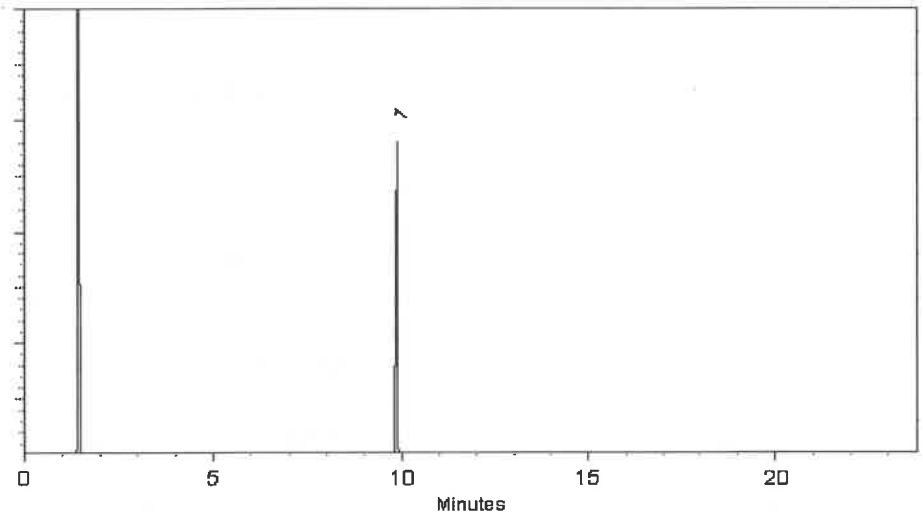
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I **Date Mixed:** 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I **Date Passed:** 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.)

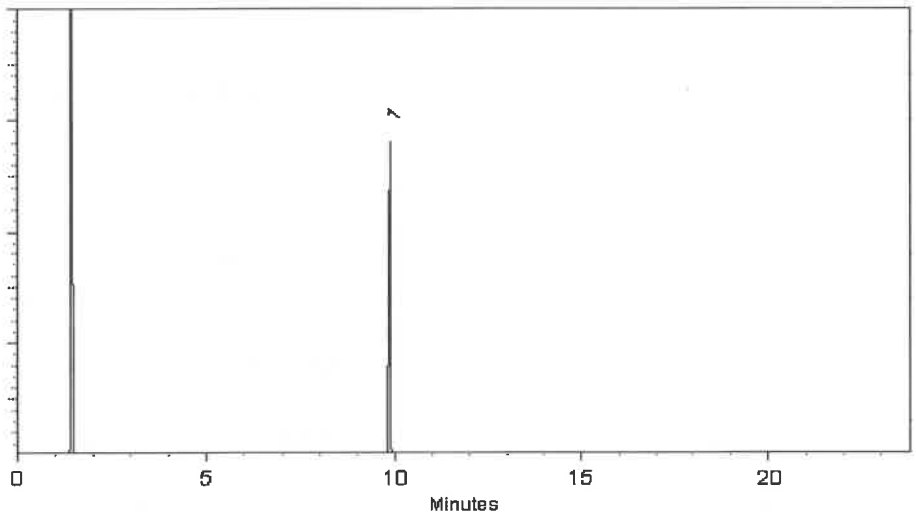
Inj. Temp:
250°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0219106

P13947
L

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

P13954

Expiration Date : October 31, 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	2-Fluorobiphenyl	321-60-8	00021384	99%	4,013.5 µg/mL	+/- 180.7988
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,011.0 µg/mL	+/- 180.6862

* 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.)

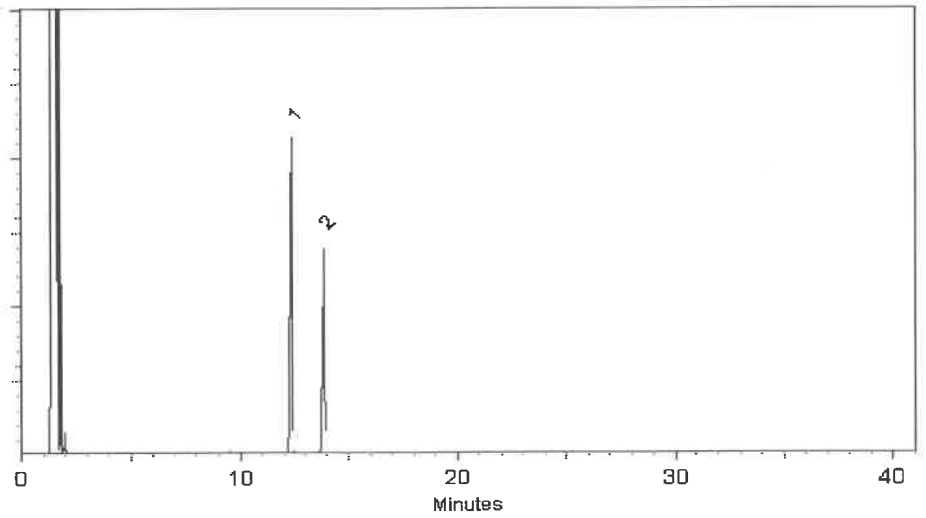
Inj. Temp:
250°C

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.

Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Nov-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0221895

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 : January 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13955
↓
P13966.

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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

* 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.)

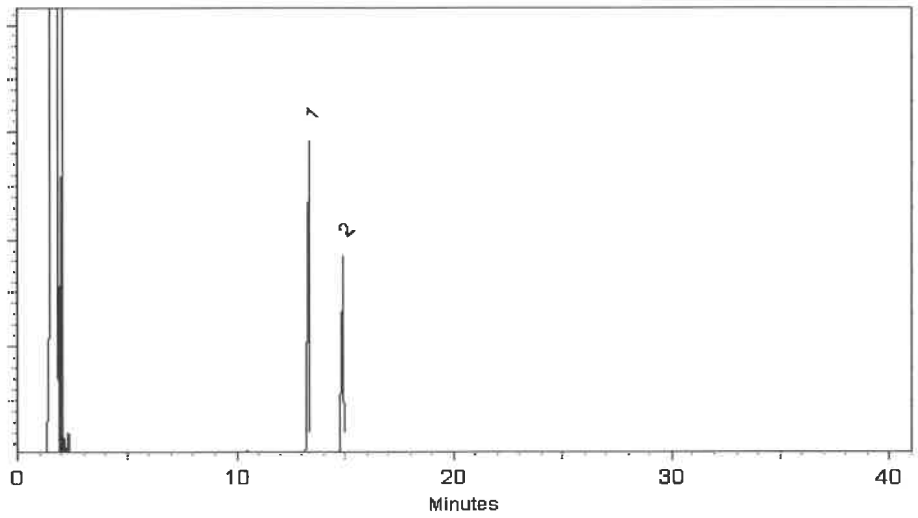
Inj. Temp:
250°C

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.

Ven Kelley - Operations Tech I

Date Mixed: 04-Feb-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 12-Feb-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0225485

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P140028 ↓ P140042 RC/ 6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* 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.)

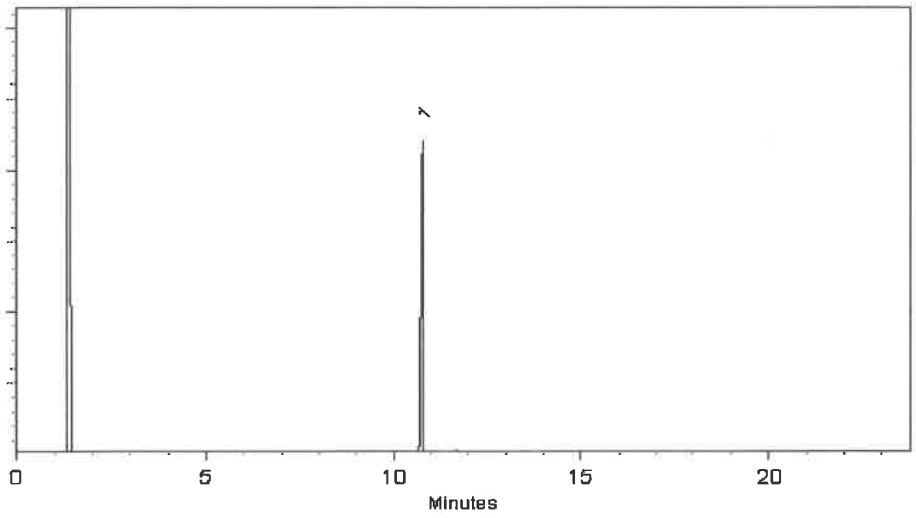
Inj. Temp:
250°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0224278

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, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 → P14058 } AC 6/10/25

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%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0221895

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 : January 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059 ↓ P14062 } AC 6/10/25

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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0221895

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 : January 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059 ↓ P14062 } AC 6/10/25

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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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Fax: 1-814-353-1309

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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.:** A0221895

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 : January 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059 ↓ P14062 } AC 6/10/25

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%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* 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.)

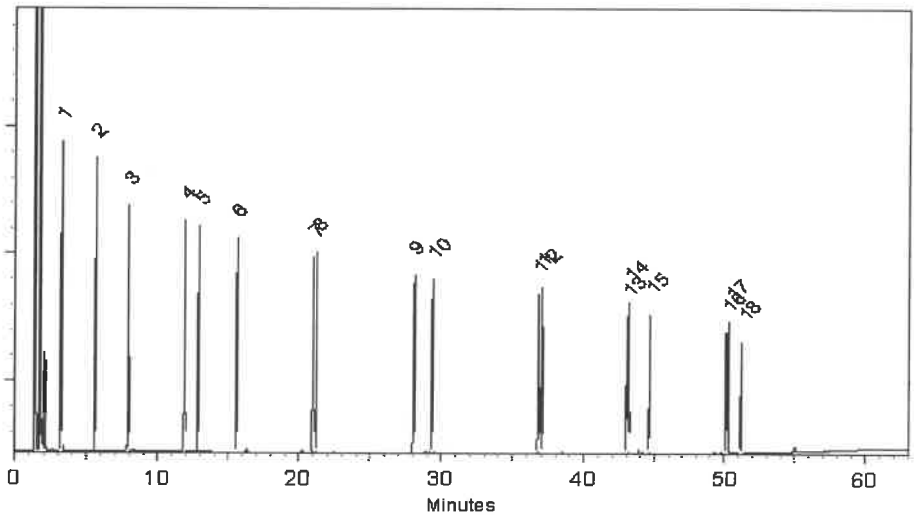
Inj. Temp:
250°C

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.

Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

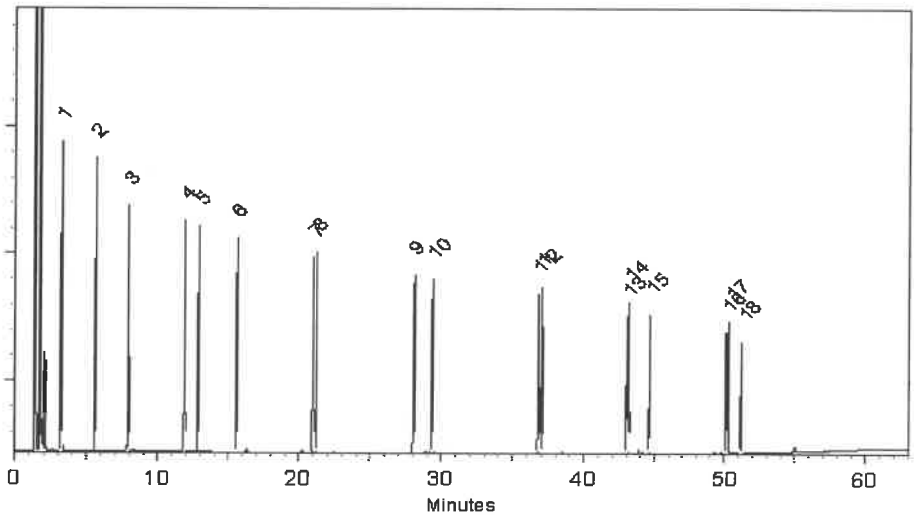
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

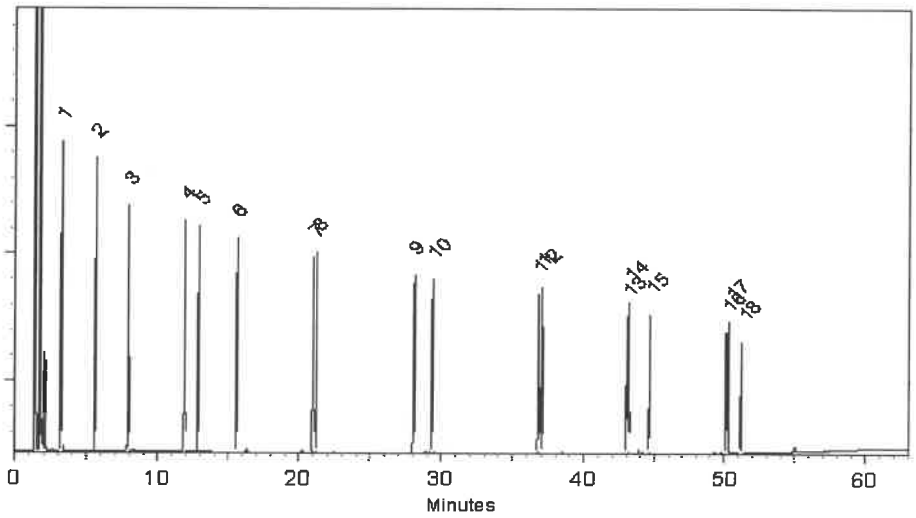
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

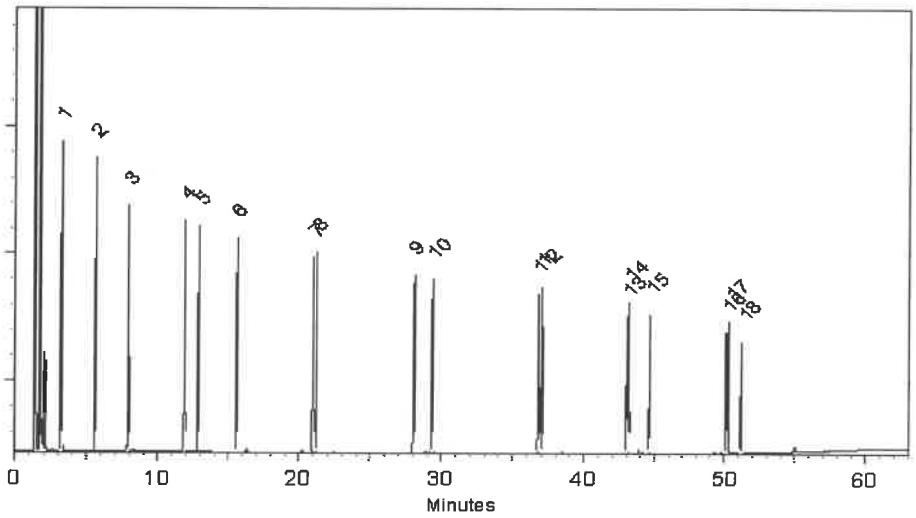
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

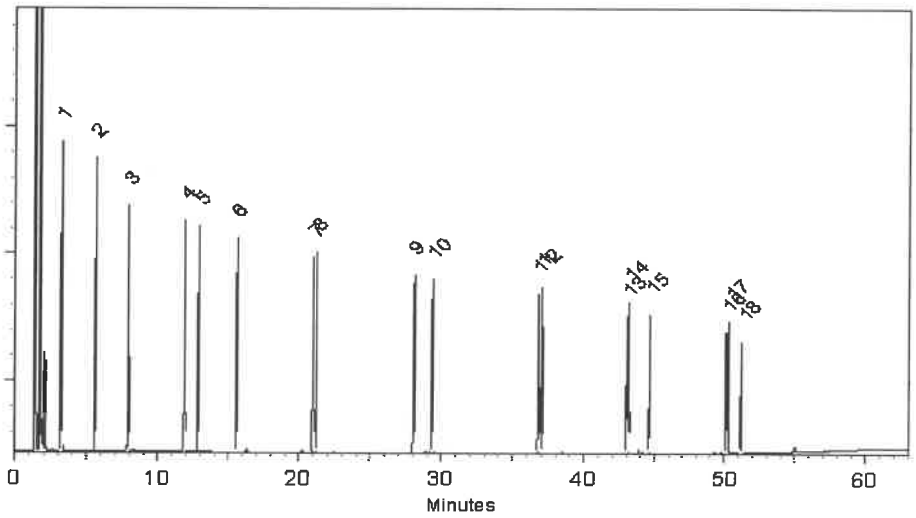
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 ↓ P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

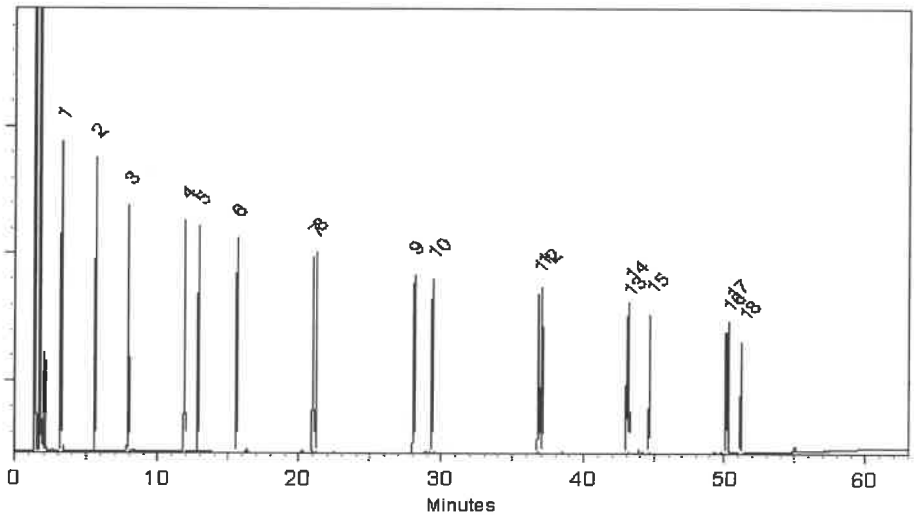
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

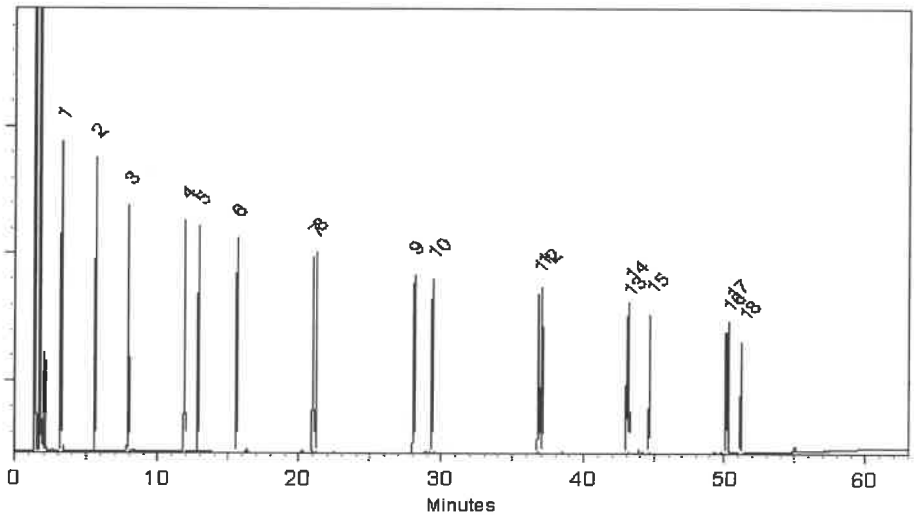
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
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17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

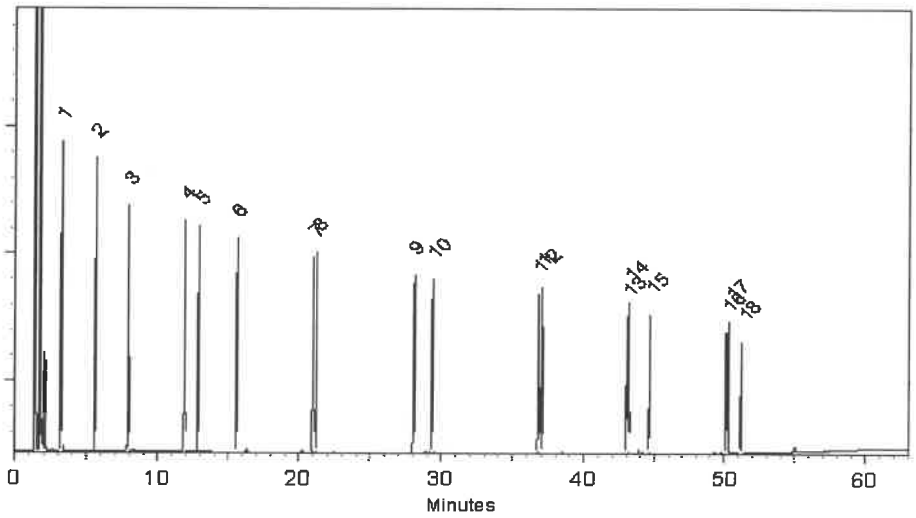
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

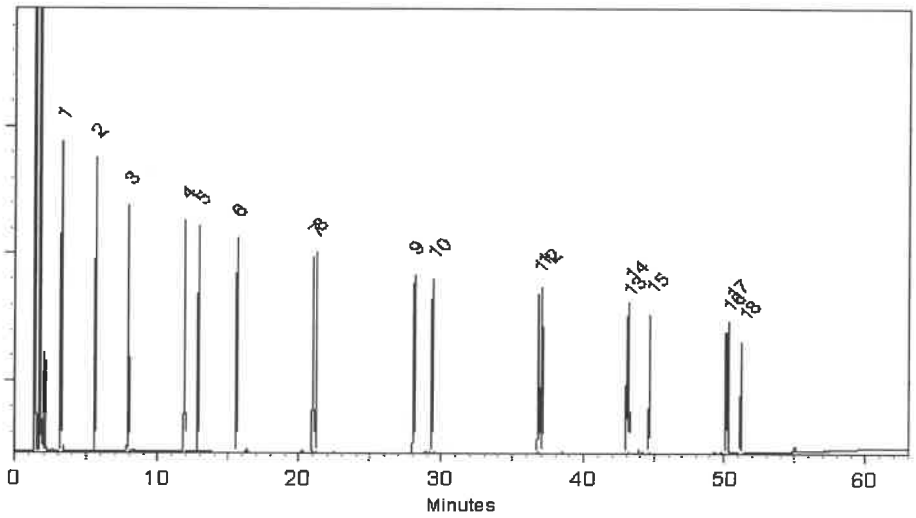
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P14074 → P14083 AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2031 **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	8776.10-39	98%	200.3 µg/mL	+/- 9.0255
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4	µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0	µg/mL	+/- 9.0114

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

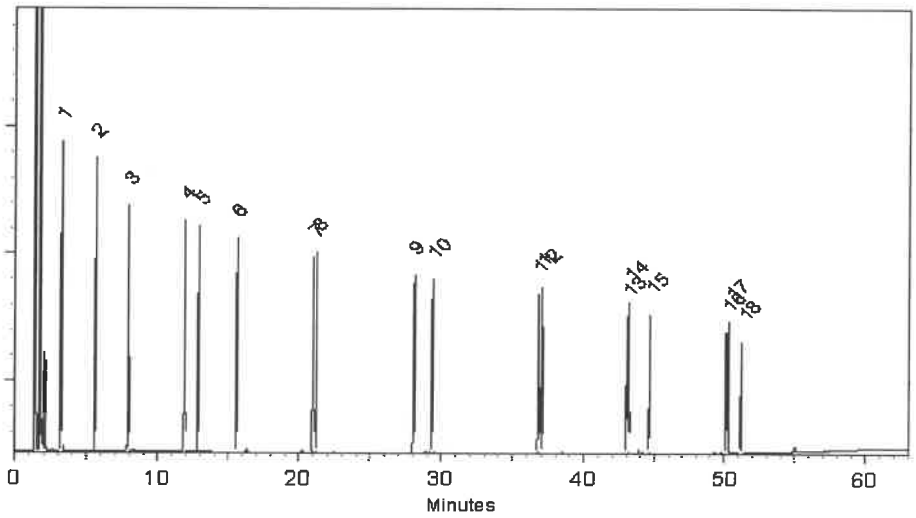
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/- 5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

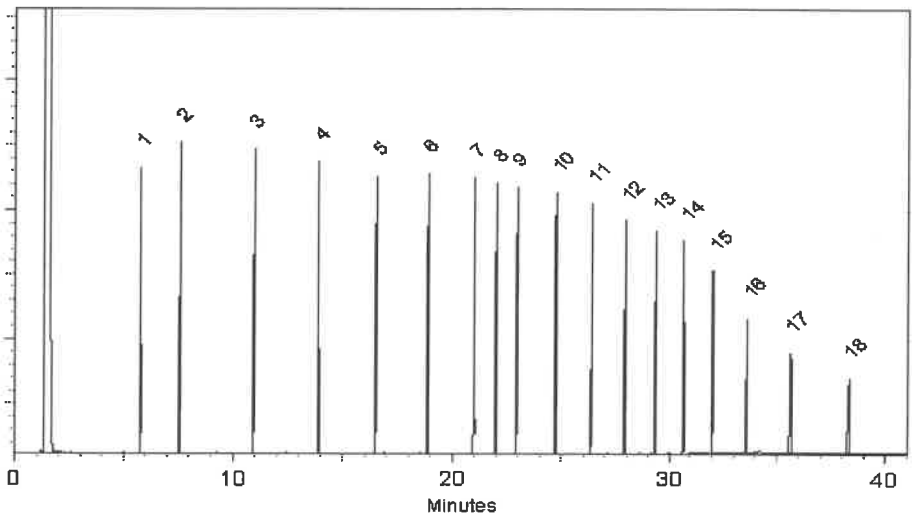
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/- 5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

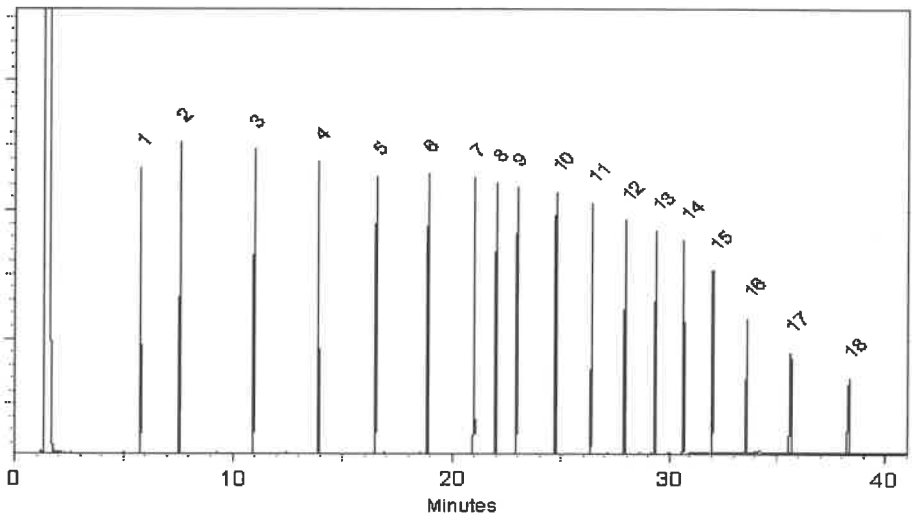
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/- 5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

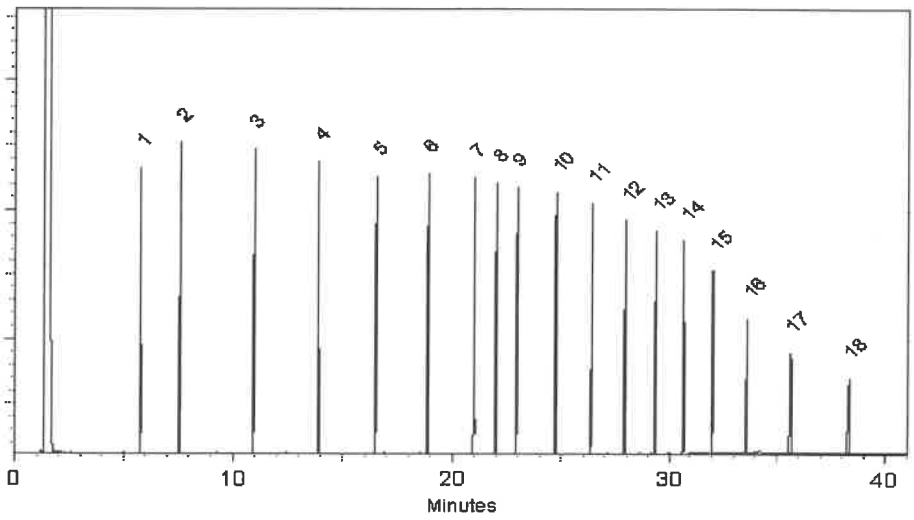
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/- 5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

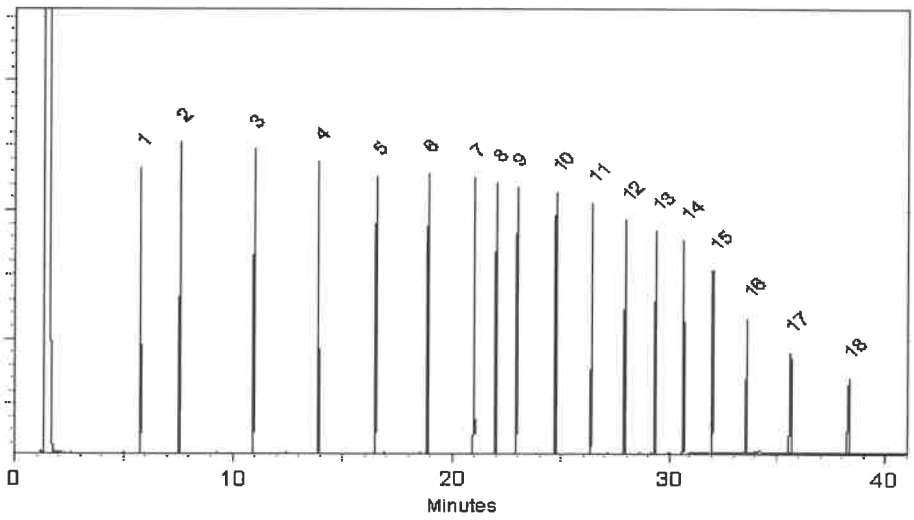
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
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18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/- 5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

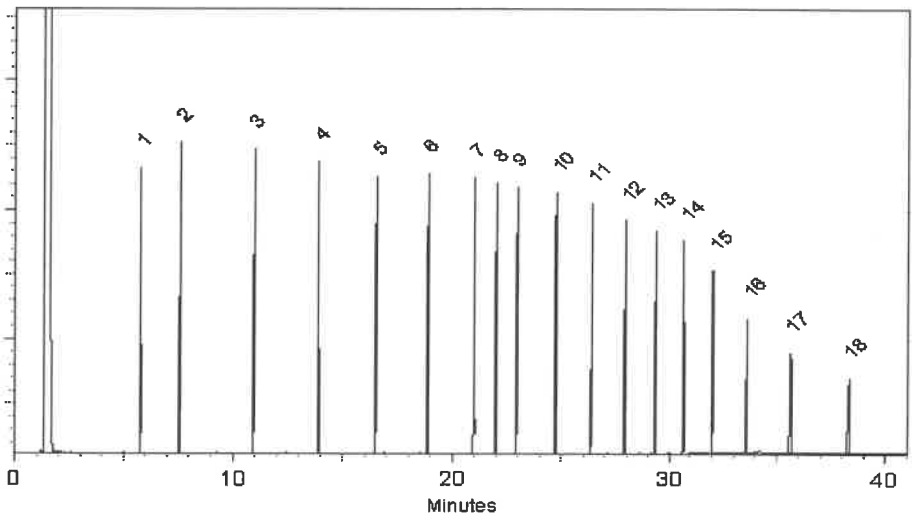
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
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18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/- 5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

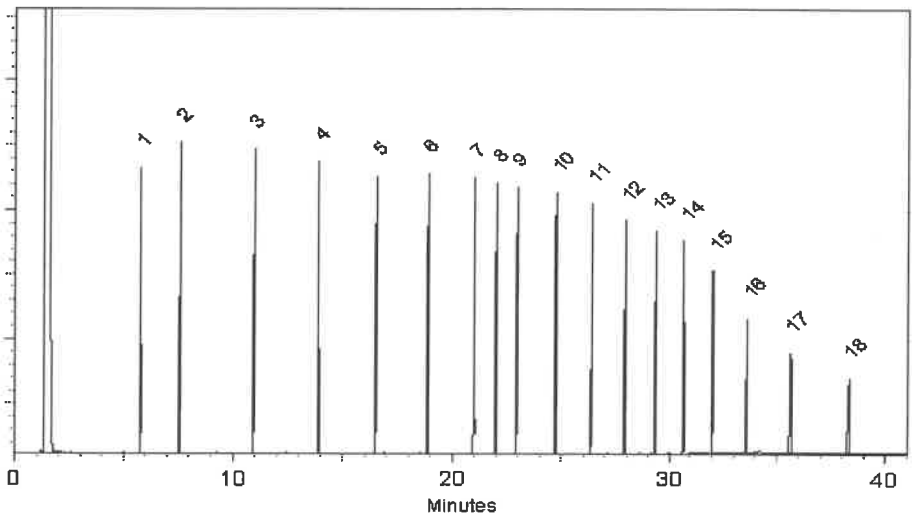
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

P14094 ↓ P14103 } AC 7/16/25

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2032 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
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Rtx-5 (cat.#10223)

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@ 10°C/min. (hold 10 min.)

Inj. Temp:
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Det. Temp:
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Det. Type:
FID

Split Vent:
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Inj. Vol
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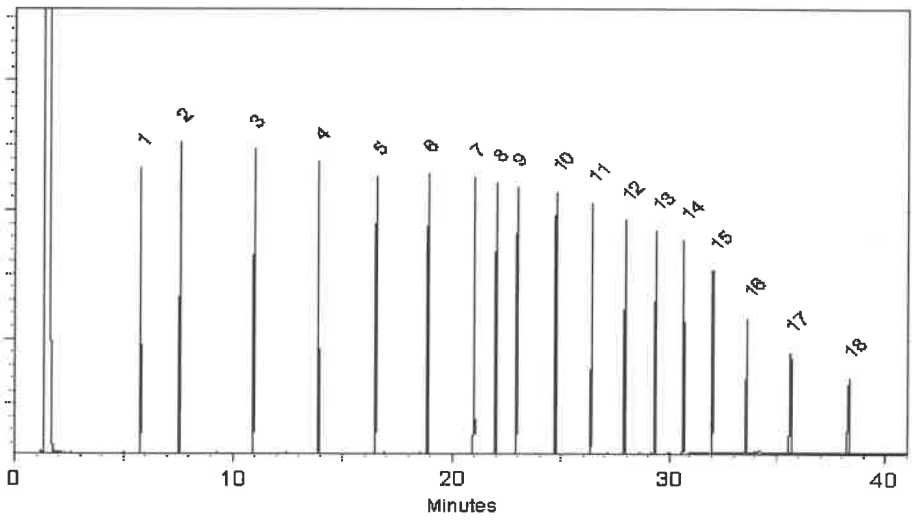

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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

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Handling: Sonicate prior to use. **Ship:** Ambient

P14094 ↓ P14103 } AC 7/16/25

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Rtx-5 (cat.#10223)

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Inj. Temp:
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Split Vent:
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Inj. Vol
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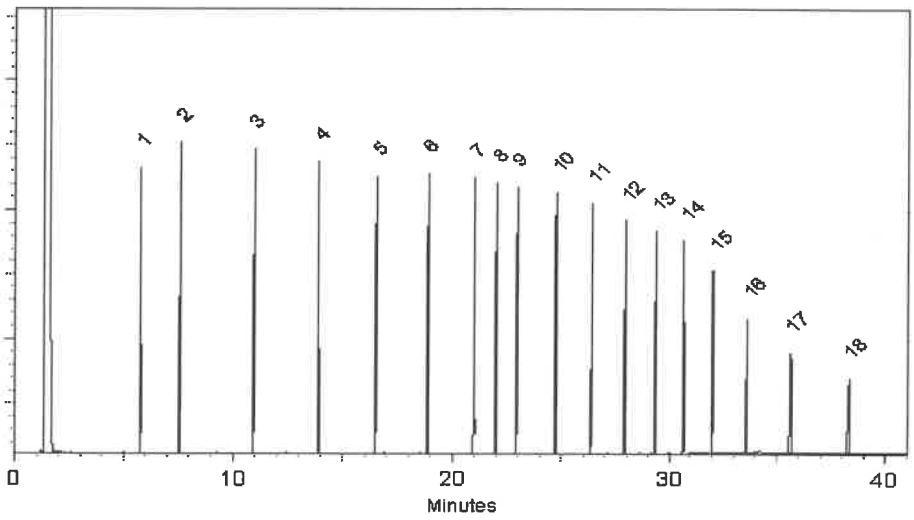

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Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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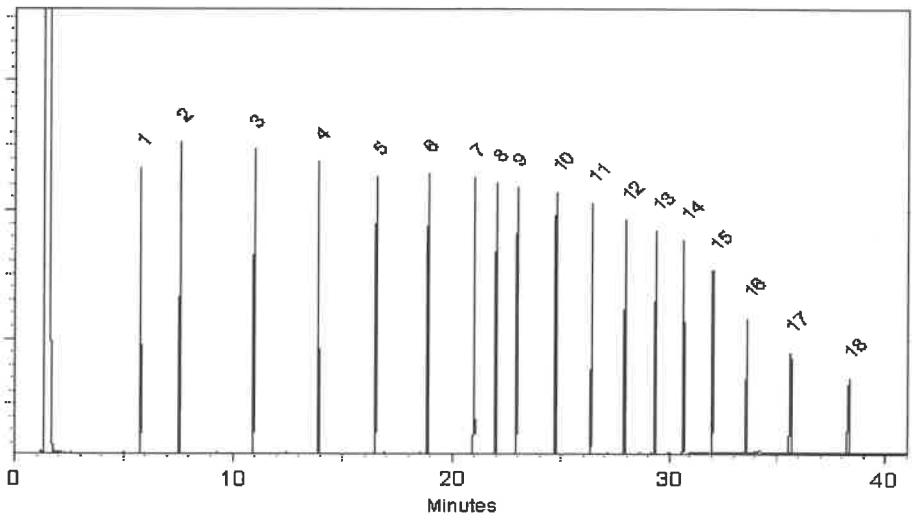

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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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P14094 ↓ P14103 } AC 7/16/25

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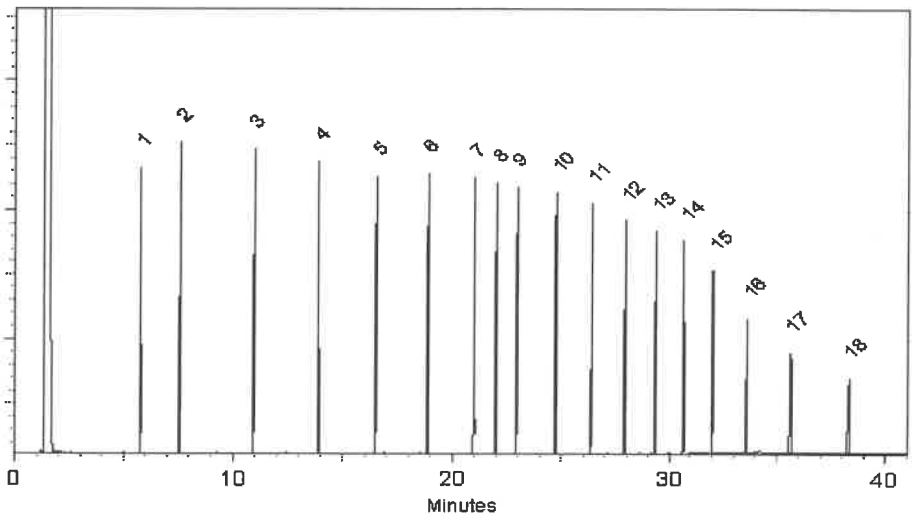

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Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker

W3234 JB
Update: 07/28/2025

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date:2026-04-30
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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C_6 Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States
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

SHIPPING DOCUMENTS

Q3176
Q3177

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-01

Cooler #: 1 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

Lab #	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	EME-TS12-01	Percent Moisture	Soil	9/23/2025	12:08	1	4 oz jar w/ septum	4 C	
	EME-TS12-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:08	2	8 oz amber glass jar	4 C	
	EME-TS12-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:08	1	8 oz clear glass jar	4 C	
	EME-TS12-01	EPH	Soil	9/23/2025	12:08	1	4 oz glass jar	4 C	
	EME-TS12-01	SPLP VOCs	Soil	9/23/2025	12:08	3	5 g Encore sampler	4 C	
	EME-TS12-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:08	2	8 oz amber glass jar	4 C	
	EME-TS12-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:08	1	8 oz clear glass jar	4 C	
	EME-TS12-01	SPLP EPH	Soil	9/23/2025	12:08	1	4 oz glass jar	4 C	
	EME-TS12-01	TAL VOCs,	Soil	9/23/2025	12:08	3	5 g Encore sampler	4 C	
	EME-TS13-01	SPLP VOCs	Soil	9/23/2025	12:20	3	5 g Encore sampler	4 C	
	EME-TS13-01	TAL VOCs,	Soil	9/23/2025	12:20	3	5 g Encore sampler	4 C	
	EME-TS13-01	Percent Moisture	Soil	9/23/2025	12:20	1	4 oz jar w/ septum	4 C	
	EME-TS13-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:20	2	8 oz amber glass jar	4 C	
	EME-TS13-01	EPH	Soil	9/23/2025	12:20	1	4 oz glass jar	4 C	
	EME-TS13-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:20	2	8 oz amber glass jar	4 C	
	EME-TS13-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:20	1	8 oz clear glass jar	4 C	
	EME-TS13-01	SPLP EPH	Soil	9/23/2025	12:20	1	4 oz glass jar	4 C	
	EME-TS13-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:20	1	8 oz clear glass jar	4 C	

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com.
7 day preliminary TAT.

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	LC / START VI Weston	9/23/25 1700		9-23-25 1700	1.5°C IR GUN #1 custody seals intact Temp Blk present

Q3176
83177

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-01

Cooler #: 1 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

Lab #	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	EME-TS14-02	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:57	1	8 oz clear glass jar	4 C	
	EME-TS14-02	TAL VOCs,	Soil	9/23/2025	12:57	3	5 g Encore sampler	4 C	
	EME-TS14-02	Percent Moisture	Soil	9/23/2025	12:57	1	4 oz jar w/ septum	4 C	
	EME-TS14-02	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:57	2	8 oz amber glass jar	4 C	
	EME-TS14-02	EPH	Soil	9/23/2025	12:57	1	4 oz glass jar	4 C	
	EME-TS14-02	SPLP VOCs	Soil	9/23/2025	12:57	3	5 g Encore sampler	4 C	
	EME-TS14-02	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:57	2	8 oz amber glass jar	4 C	
	EME-TS14-02	SPLP EPH	Soil	9/23/2025	12:57	1	4 oz glass jar	4 C	
	EME-TS14-02	TAL Metals + Hg and Cn	Soil	9/23/2025	12:57	1	8 oz clear glass jar	4 C	

9/23/25

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com.
7 day preliminary TAT.

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	/ START V1 Weston	9/23/25 1700		9-23-25 1700	15° DL GW #1 custody seals intact Temp blk. present

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3176 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 9/24/2025 10:16:00 AM
Project Name : RFP 916
Receive DateTime : 9/23/2025 5:00:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : Equis Region2(MEDD)
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3176-01	EME-TS12-01	Solid	09/23/2025	12:08					
					VOC-TCLVOA-10		8260D		5 Bus. Days
Q3176-02	EME-TS13-01	Solid	09/23/2025	12:20					
					VOC-TCLVOA-10		8260D		5 Bus. Days
Q3176-03	EME-TS14-01	Solid	09/23/2025	12:57					
					VOC-TCLVOA-10		8260D		5 Bus. Days

Relinguished By :
Date / Time : 9/24/25 1110

Received By :
Date / Time : 09/24/25 11:15

Storage Area : VOA Refridgerator Room