

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 : Q3179
ATTENTION : Smita Sumbaly**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3179

Project ID : RFP 916

Client : Weston Solutions, Inc.

Lab Sample Number

Q3179-01
Q3179-02
Q3179-03

Client Sample Number

EME-TS14-01
EME-TS14-01MS
EME-TS14-01MSD

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: 10/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 916
Project # N/A
Order ID # Q3179
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_E. 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_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 analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

E. Additional Comments:

F. Calculation for Concentration in Water Samples:

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

Where:

C = Concentration of each compound or hydrocarbon range, ug/L

A = Area response of each compound or carbon range to be measured



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Phone: 908 789 8900 Fax: 908 789 8922

D = Dilution Factor

Vs = Volume of sample extracted, mL

Ve = Final volume of extract, uL

CF = Calibration factor of each compound or carbon range for each fraction

G. 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 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: Q3179

MATRIX: Solid

METHOD: NJEPH/3541

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



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GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

	NA	NO	YES
9. Analysis Holding Time Met			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			

ADDITIONAL COMMENTS:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3179

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 Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/03/2025

LAB CHRONICLE

OrderID:	Q3179	OrderDate:	9/24/2025 11:08:00 AM
Client:	Weston Solutions, Inc.	Project:	RFP 916
Contact:	Smita Sumbaly	Location:	J42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3179-01	EME-TS14-01	Water			09/23/25			09/23/25
			EPH	NJEPH		09/29/25	09/29/25	
			SPLP PCB	8082A		09/29/25	09/29/25	
			SPLP Pesticide	8081B		09/29/25	09/29/25	



QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02
Lab Code: ACE SDG No.: Q3179
Run Number: FE092925AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB169879BL	67			0
PB169879BS	86			0
PB169879TB	67			0
EME-TS14-01	98			0
EME-TS14-01MS	118			0
EME-TS14-01MSD	117			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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance Contract: ROYF02
Lab Code: ACE SDG No.: Q3179
Run Number: FF092925AR

CLIENT SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Fluorobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB169879BL	95	85	77	0
PB169879BS	108	109	91	0
PB169879TB	96	86	78	0
EME-TS14-01	98	97	94	0
EME-TS14-01MS	101	91	99	0
EME-TS14-01MSD	99	90	97	0

QC LIMITS

2-Bromonaphthalene (SURR) (40-140)
2-Fluorobiphenyl (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

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Weston Solutions, Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3179</u>
Sample No :	<u>Q3179-02</u>	Datafile:	<u>FE056056.D</u>
		Client ID :	<u>EME-TS14-01MS</u>

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	300	8.68	333	108		(40-140)
Aliphatic C12-C16	200	17.2	293	137		(40-140)
Aliphatic C16-C21	300	100	404	101		(40-140)
Aliphatic C21-C28	400	0	486	121		(40-140)
Aliphatic C28-C40	600	403	1130	121		(40-140)

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Weston Solutions, Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3179</u>
Sample No :	<u>Q3179-03</u>	Datafile:	<u>FE056057.D</u>
		Client ID :	<u>EME-TS14-01MSD</u>

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aliphatic C9-C12	300	8.68	329	106		1.87 (40-140)	50
Aliphatic C12-C16	200	17.2	286	134		2.21 (40-140)	50
Aliphatic C16-C21	300	100	401	100		1 (40-140)	50
Aliphatic C21-C28	400	0	491	122		0.82 (40-140)	50
Aliphatic C28-C40	600	403	1120	119		1.67 (40-140)	50

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>Weston Solutions, Inc.</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3179</u>
Sample No :	<u>Q3179-02</u>	Datafile:	<u>FF016477.D</u>
		Client ID :	<u>EME-TS14-01MS</u>

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	200	3.71	222	109		(40-140)
Aromatic C12-C16	300	7.91	422	138		(40-140)
Aromatic C16-C21	500	43.8	656	122		(40-140)
Aromatic C21-C36	800	0	948	118		(40-140)

WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.
Lab Code: ACE **SDG No:** Q3179
Sample No : Q3179-03 **Datafile:** FF016478.D **Client ID :** EME-TS14-01MSD

COMPOUND	SPIKE ADDED ug/l	SAMPLE CONCENTRATION ug/l	MS/MSD CONCENTRATION ug/l	% REC	Qual	RPD QC LIMITS (%) QC Limit Of RPD
Aromatic C10-C12	200	3.71	216	106		2.79 (40-140) 50
Aromatic C12-C16	300	7.91	359	117		16.5 (40-140) 50
Aromatic C16-C21	500	43.8	745	140		13 (40-140) 50
Aromatic C21-C36	800	0	933	116		1.71 (40-140) 50

WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.
Lab Code: ACE **SDG No:** Q3179
Sample No : PB169879BS **Datafile:** FE056074.D **Client ID :** PB169879BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aliphatic C9-C12	300	135	45		(40-140)
Aliphatic C12-C16	200	131	66		(40-140)
Aliphatic C16-C21	300	232	77		(40-140)
Aliphatic C21-C28	400	308	77		(40-140)
Aliphatic C28-C40	600	513	86		(40-140)

WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** Weston Solutions, Inc.
Lab Code: ACE **SDG No:** Q3179
Sample No : PB169879BS **Datafile:** FF016471.D **Client ID :** PB169879BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS (%)
Aromatic C10-C12	200	160	80		(40-140)
Aromatic C12-C16	300	266	89		(40-140)
Aromatic C16-C21	500	469	94		(40-140)
Aromatic C21-C36	800	747	93		(40-140)

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169879BL

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3179

Instrument ID: FID_E

Lab Sample ID: PB169879BL

Matrix: (soil/water) Water

Date Extracted: 9/29/2025 8:30:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169879BS	PB169879BS
EME-TS14-01	Q3179-01
EME-TS14-01MS	Q3179-02
EME-TS14-01MSD	Q3179-03

COMMENTS: _____



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-TS14-01	SDG No.:	Q3179
Lab Sample ID:	Q3179-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/29/25 19:56	PB169879

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.68	J	1	8.28	30.0	ug/l	FE056055.D
Aliphatic C12-C16	Aliphatic C12-C16	17.2	J	1	13.5	20.0	ug/l	FE056055.D
Aliphatic C16-C21	Aliphatic C16-C21	100		1	8.34	30.0	ug/l	FE056055.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FE056055.D
Aliphatic C28-C40	Aliphatic C28-C40	403		1	23.8	60.0	ug/l	FE056055.D
Aromatic C10-C12	Aromatic C10-C12	3.71	J	1	2.07	20.0	ug/l	FF016476.D
Aromatic C12-C16	Aromatic C12-C16	7.91	J	1	4.26	30.0	ug/l	FF016476.D
Aromatic C16-C21	Aromatic C16-C21	43.8	J	1	8.27	50.0	ug/l	FF016476.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FF016476.D
Total AliphaticEPH	Total AliphaticEPH	529			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	55.4	J		38.4	180	ug/l	
Total EPH	Total EPH	584			105	360	ug/l	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01	SDG No.:	Q3179
Lab Sample ID:	Q3179-01	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056055.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.68	J	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	17.2	J	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	100		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	403		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	48.9		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3179-01	Acq On:	29 Sep 2025 19:56
Client Sample ID:	EME-TS14-01	Operator:	YP\AJ
Data file:	FE056055.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	607540	4.339	300	ug/ml
Aliphatic C12-C16	6.947	10.396	1320678	8.611	200	ug/ml
Aliphatic C16-C21	10.397	13.773	8356375	50.376	300	ug/ml
Aliphatic C21-C28	13.774	17.443	920988	6.201	400	ug/ml
Aliphatic C28-C40	17.444	22.449	27507813	201.889	600	ug/ml
Aliphatic EPH	3.315	22.449	38713394	271.416		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	6818463	48.85		ug/ml
Aliphatic C9-C28	3.315	17.443	11205581	69.527	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056055.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 19:56
Operator : YP\AJ
Sample : Q3179-01
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01

Integration File: autoint1.e
Quant Time: Sep 30 00:31:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 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			
12) S 1-chlorooctadecane (S...	13.512	6818463	48.855 ug/ml
Spiked Amount 50.000		Recovery =	97.71%

Target Compounds

(f)=RT Delta > 1/2 Window

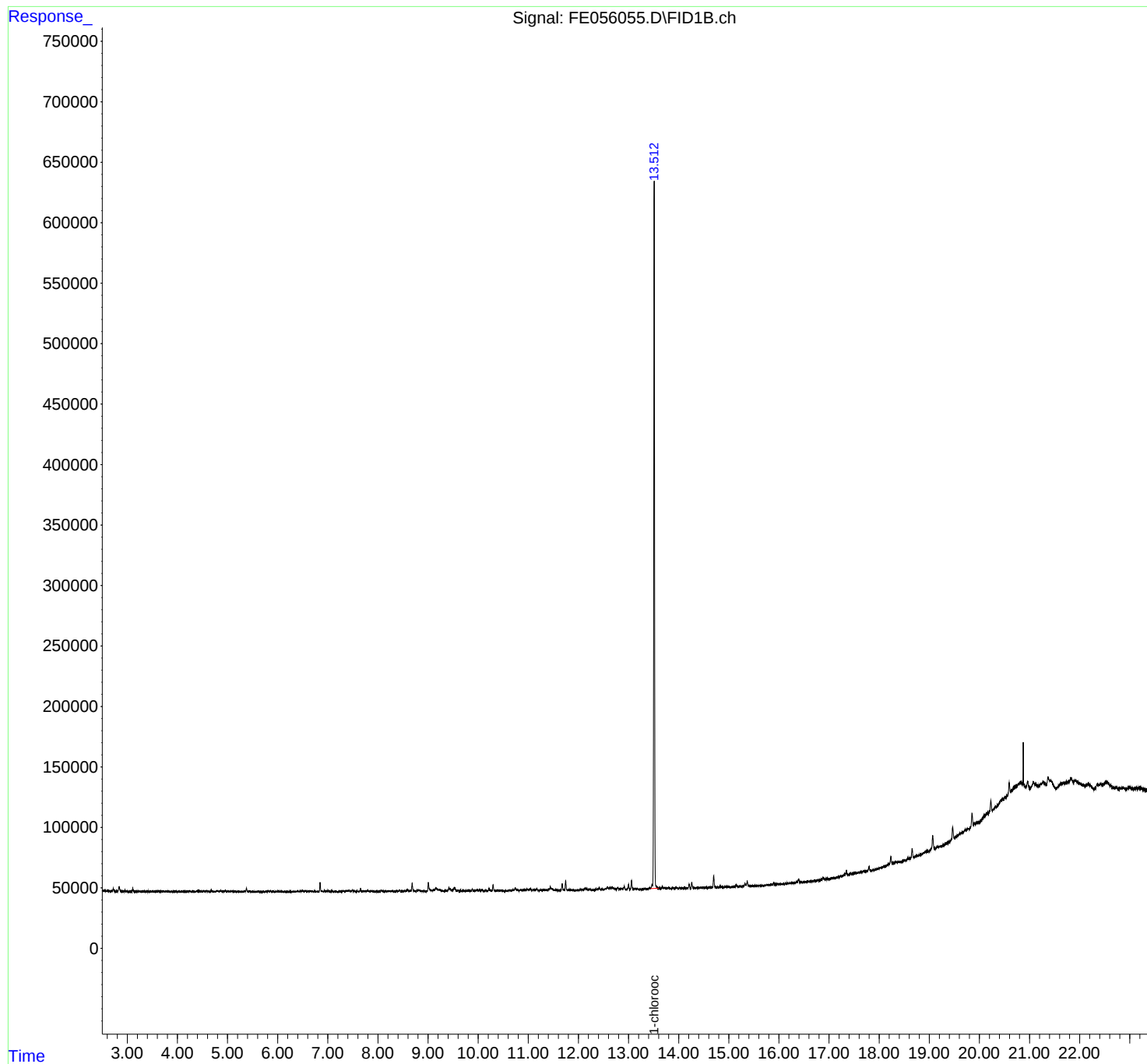
(m)=manual int.

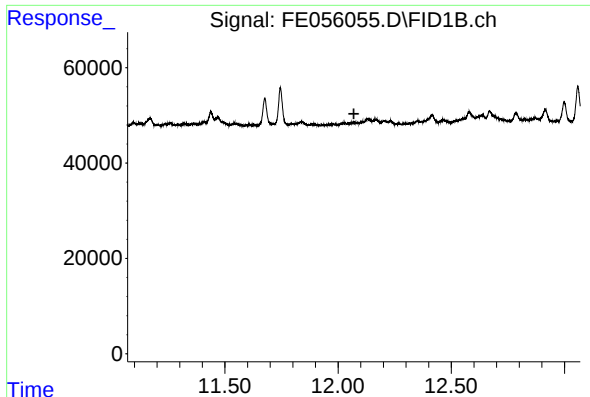
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056055.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 19:56
Operator : YP\AJ
Sample : Q3179-01
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01

Integration File: autoint1.e
Quant Time: Sep 30 00:31:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

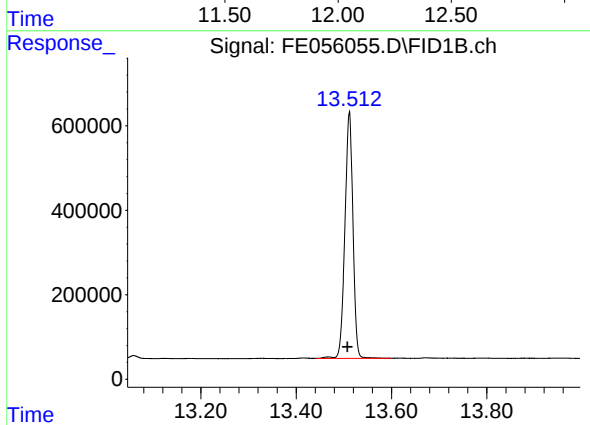




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 12.070 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EME-TS14-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.004 min
Response: 6818463
Conc: 48.85 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056055.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 19:56
Sample : Q3179-01
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.840	2.805	2.878	PV	3239	53644	0.79%	0.138%
2	2.886	2.878	2.913	PV	123	1396	0.02%	0.004%
3	2.921	2.913	2.934	PV	62	692	0.01%	0.002%
4	2.953	2.934	3.028	PV	882	11642	0.17%	0.030%
5	3.052	3.028	3.074	PV	157	2167	0.03%	0.006%
6	3.110	3.074	3.174	PV	2444	27490	0.40%	0.071%
7	3.207	3.174	3.227	VV	164	3344	0.05%	0.009%
8	3.237	3.227	3.248	VV	169	1681	0.02%	0.004%
9	3.263	3.248	3.287	VV	186	2662	0.04%	0.007%
10	3.295	3.287	3.304	VV	151	1019	0.01%	0.003%
11	3.315	3.304	3.335	VV	127	1953	0.03%	0.005%
12	3.346	3.335	3.365	VV	118	1808	0.03%	0.005%
13	3.372	3.365	3.391	VV	122	1468	0.02%	0.004%
14	3.416	3.391	3.447	VV	335	5912	0.09%	0.015%
15	3.458	3.447	3.513	VV	160	4759	0.07%	0.012%
16	3.535	3.513	3.553	VV	181	3726	0.05%	0.010%
17	3.562	3.553	3.578	VV	159	2257	0.03%	0.006%
18	3.587	3.578	3.601	VV	193	2230	0.03%	0.006%
19	3.664	3.601	3.715	VV	228	10761	0.16%	0.028%
20	3.728	3.715	3.775	VV	215	5063	0.07%	0.013%
21	3.805	3.775	3.838	VV	248	5760	0.08%	0.015%
22	3.845	3.838	3.855	VV	145	1483	0.02%	0.004%
23	3.864	3.855	3.895	VV	232	3977	0.06%	0.010%
24	3.902	3.895	3.919	VV	154	1925	0.03%	0.005%
25	3.939	3.919	3.947	VV	178	2041	0.03%	0.005%
26	3.960	3.947	3.977	VV	162	2008	0.03%	0.005%
27	4.004	3.977	4.039	VV	194	5085	0.07%	0.013%
28	4.110	4.039	4.125	VV	169	5899	0.09%	0.015%
29	4.127	4.125	4.141	VV	191	1132	0.02%	0.003%
30	4.212	4.141	4.227	VV	412	7973	0.12%	0.021%
31	4.246	4.227	4.271	VV	707	9309	0.14%	0.024%
32	4.278	4.271	4.302	VV	130	2486	0.04%	0.006%
33	4.323	4.302	4.348	VV	337	5763	0.08%	0.015%
34	4.416	4.348	4.463	VV	599	19372	0.28%	0.050%
35	4.479	4.463	4.518	VV	250	7001	0.10%	0.018%
36	4.535	4.518	4.545	VV	269	3829	0.06%	0.010%

rteres.txt								
37	4.586	4.545	4.629	VV	751	17183	0.25%	0.044%
38	4.637	4.629	4.651	VV	178	2637	0.04%	0.007%
39	4.674	4.651	4.701	VV	1459	18621	0.27%	0.048%
40	4.714	4.701	4.733	VV	341	5096	0.07%	0.013%
41	4.791	4.733	4.821	VV	916	19299	0.28%	0.050%
42	4.864	4.821	4.909	VV	1006	20088	0.29%	0.052%
43	4.925	4.909	4.940	VV	793	8793	0.13%	0.023%
44	4.959	4.940	4.984	VV	1232	15368	0.23%	0.040%
45	4.998	4.984	5.051	VV	340	10971	0.16%	0.028%
46	5.086	5.051	5.126	VV	412	12699	0.19%	0.033%
47	5.138	5.126	5.211	VV	315	10289	0.15%	0.027%
48	5.217	5.211	5.246	VV	113	2014	0.03%	0.005%
49	5.259	5.246	5.278	VV	158	2486	0.04%	0.006%
50	5.291	5.278	5.326	VV	260	4486	0.07%	0.012%
51	5.377	5.326	5.415	VV	2892	41059	0.60%	0.106%
52	5.438	5.415	5.469	VV	635	9157	0.13%	0.024%
53	5.489	5.469	5.538	VV	434	7140	0.10%	0.018%
54	5.549	5.538	5.570	PV	81	977	0.01%	0.003%
55	5.586	5.570	5.605	VV	191	2529	0.04%	0.007%
56	5.619	5.605	5.659	VV	216	3271	0.05%	0.008%
57	5.697	5.659	5.714	PV	148	2248	0.03%	0.006%
58	5.724	5.714	5.733	VV	59	562	0.01%	0.001%
59	5.746	5.733	5.771	VV	180	2414	0.04%	0.006%
60	5.778	5.771	5.793	VV	181	1149	0.02%	0.003%
61	5.814	5.793	5.836	VV	728	8730	0.13%	0.022%
62	5.857	5.836	5.879	VV	1092	12216	0.18%	0.031%
63	5.918	5.879	5.952	VV	302	6596	0.10%	0.017%
64	6.010	5.952	6.036	VV	329	9402	0.14%	0.024%
65	6.077	6.036	6.096	VV	121	3958	0.06%	0.010%
66	6.125	6.096	6.148	VV	267	4716	0.07%	0.012%
67	6.165	6.148	6.223	VV	102	3471	0.05%	0.009%
68	6.233	6.223	6.273	VV	117	1602	0.02%	0.004%
69	6.295	6.273	6.313	VV	222	3286	0.05%	0.008%
70	6.398	6.313	6.428	VV	558	17661	0.26%	0.045%
71	6.446	6.428	6.471	VV	646	11962	0.18%	0.031%
72	6.492	6.471	6.528	VV	975	17428	0.26%	0.045%
73	6.555	6.528	6.588	VV	941	16453	0.24%	0.042%
74	6.630	6.588	6.658	VV	606	18404	0.27%	0.047%
75	6.681	6.658	6.715	VV	390	10432	0.15%	0.027%
76	6.733	6.715	6.757	VV	430	8192	0.12%	0.021%
77	6.771	6.757	6.788	VV	314	4471	0.07%	0.012%
78	6.795	6.788	6.814	VV	314	4189	0.06%	0.011%
79	6.846	6.814	6.903	VV	7559	87873	1.29%	0.226%
80	6.933	6.903	6.958	VV	674	10982	0.16%	0.028%
81	6.969	6.958	6.983	VV	410	4584	0.07%	0.012%
82	7.001	6.983	7.025	VV	1002	12114	0.18%	0.031%
83	7.036	7.025	7.061	VV	349	4073	0.06%	0.010%
84	7.076	7.061	7.105	VV	605	6917	0.10%	0.018%
85	7.112	7.105	7.120	VV	99	762	0.01%	0.002%
86	7.143	7.120	7.195	VV	299	6030	0.09%	0.016%
87	7.201	7.195	7.208	VV	47	429	0.01%	0.001%
88	7.234	7.208	7.276	PV	155	3853	0.06%	0.010%
89	7.303	7.276	7.335	VV	742	10599	0.16%	0.027%

					rteres.txt			
90	7.358	7.335	7.375	VV	866	13385	0.20%	0.034%
91	7.409	7.375	7.417	VV	931	17460	0.26%	0.045%
92	7.426	7.417	7.458	VV	951	15734	0.23%	0.041%
93	7.488	7.458	7.517	VV	1212	20799	0.30%	0.054%
94	7.527	7.517	7.547	VV	317	4634	0.07%	0.012%
95	7.567	7.547	7.580	VV	337	5187	0.08%	0.013%
96	7.596	7.580	7.621	VV	299	5675	0.08%	0.015%
97	7.653	7.621	7.684	VV	2713	33481	0.49%	0.086%
98	7.716	7.684	7.745	VV	454	12387	0.18%	0.032%
99	7.763	7.745	7.777	VV	592	8098	0.12%	0.021%
100	7.796	7.777	7.816	VV	1106	14648	0.21%	0.038%
101	7.862	7.816	7.875	VV	479	10137	0.15%	0.026%
102	7.890	7.875	7.923	VV	568	6987	0.10%	0.018%
103	7.932	7.923	7.937	VV	124	693	0.01%	0.002%
104	7.961	7.937	7.981	VV	299	4196	0.06%	0.011%
105	8.008	7.981	8.028	PV	194	2565	0.04%	0.007%
106	8.064	8.028	8.083	VV	1216	15345	0.22%	0.040%
107	8.090	8.083	8.121	VV	398	7357	0.11%	0.019%
108	8.135	8.121	8.181	VV	327	9837	0.14%	0.025%
109	8.232	8.181	8.249	VV	463	12759	0.19%	0.033%
110	8.259	8.249	8.313	VV	373	8904	0.13%	0.023%
111	8.329	8.313	8.348	VV	291	3506	0.05%	0.009%
112	8.374	8.348	8.405	VV	835	11356	0.17%	0.029%
113	8.431	8.405	8.453	VV	1550	18482	0.27%	0.048%
114	8.468	8.453	8.488	VV	348	5744	0.08%	0.015%
115	8.587	8.488	8.652	VV	1486	55007	0.81%	0.142%
116	8.682	8.652	8.758	VV	6893	103316	1.51%	0.266%
117	8.811	8.758	8.865	VV	1085	44419	0.65%	0.114%
118	8.877	8.865	8.905	VV	550	8086	0.12%	0.021%
119	8.919	8.905	8.965	VV	647	8558	0.13%	0.022%
120	9.006	8.965	9.083	PV	7474	133711	1.96%	0.344%
121	9.157	9.083	9.211	VV	2637	111637	1.64%	0.288%
122	9.228	9.211	9.274	VV	1437	35879	0.53%	0.092%
123	9.291	9.274	9.323	VV	710	12123	0.18%	0.031%
124	9.345	9.323	9.364	VV	642	10611	0.16%	0.027%
125	9.415	9.364	9.431	VV	3272	54527	0.80%	0.140%
126	9.443	9.431	9.485	VV	2074	42758	0.63%	0.110%
127	9.529	9.485	9.585	VV	3169	82403	1.21%	0.212%
128	9.601	9.585	9.625	VV	817	12030	0.18%	0.031%
129	9.651	9.625	9.677	VV	640	10543	0.15%	0.027%
130	9.697	9.677	9.718	VV	568	9920	0.15%	0.026%
131	9.734	9.718	9.780	VV	461	12173	0.18%	0.031%
132	9.815	9.780	9.836	VV	764	15984	0.23%	0.041%
133	9.882	9.836	9.918	VV	1447	28102	0.41%	0.072%
134	9.974	9.918	10.001	VV	1047	29482	0.43%	0.076%
135	10.022	10.001	10.054	VV	971	19151	0.28%	0.049%
136	10.076	10.054	10.114	VV	1287	20310	0.30%	0.052%
137	10.149	10.114	10.185	VV	736	16621	0.24%	0.043%
138	10.216	10.185	10.271	VV	2061	36280	0.53%	0.093%
139	10.297	10.271	10.340	VV	5350	69959	1.02%	0.180%
140	10.369	10.340	10.381	VV	476	8441	0.12%	0.022%
141	10.391	10.381	10.425	VV	476	9930	0.15%	0.026%

					rteres.txt			
142	10.450	10.425	10.491	VV	464	12397	0.18%	0.032%
143	10.576	10.491	10.593	PV	335	8783	0.13%	0.023%
144	10.619	10.593	10.638	VV	600	11147	0.16%	0.029%
145	10.647	10.638	10.656	VV	411	3835	0.06%	0.010%
146	10.690	10.656	10.710	VV	915	19491	0.29%	0.050%
147	10.738	10.710	10.821	VV	2430	68700	1.01%	0.177%
148	10.847	10.821	10.871	VV	733	16539	0.24%	0.043%
149	10.902	10.871	10.914	VV	803	15072	0.22%	0.039%
150	10.940	10.914	10.953	VV	801	17029	0.25%	0.044%
151	10.970	10.953	11.002	VV	1043	25740	0.38%	0.066%
152	11.039	11.002	11.075	VV	1848	43841	0.64%	0.113%
153	11.096	11.075	11.112	VV	851	13728	0.20%	0.035%
154	11.125	11.112	11.135	VV	735	9248	0.14%	0.024%
155	11.169	11.135	11.220	VV	1795	42541	0.62%	0.110%
156	11.261	11.220	11.284	VV	708	19341	0.28%	0.050%
157	11.324	11.284	11.345	VV	531	15755	0.23%	0.041%
158	11.363	11.345	11.380	VV	628	10739	0.16%	0.028%
159	11.408	11.380	11.418	VV	942	15553	0.23%	0.040%
160	11.438	11.418	11.455	VV	2991	43365	0.64%	0.112%
161	11.468	11.455	11.524	VV	1912	40948	0.60%	0.105%
162	11.546	11.524	11.584	VV	562	11960	0.18%	0.031%
163	11.620	11.584	11.638	VV	296	5657	0.08%	0.015%
164	11.676	11.638	11.717	VV	5777	77503	1.14%	0.200%
165	11.745	11.717	11.780	VV	7956	99202	1.45%	0.256%
166	11.793	11.780	11.804	VV	411	4780	0.07%	0.012%
167	11.839	11.804	11.867	VV	768	17048	0.25%	0.044%
168	11.887	11.867	11.921	VV	242	4551	0.07%	0.012%
169	11.976	11.921	12.001	PV	258	5678	0.08%	0.015%
170	12.024	12.001	12.051	VV	381	9092	0.13%	0.023%
171	12.068	12.051	12.081	VV	519	8123	0.12%	0.021%
172	12.133	12.081	12.152	VV	1219	32453	0.48%	0.084%
173	12.165	12.152	12.189	VV	1078	18639	0.27%	0.048%
174	12.204	12.189	12.218	VV	810	11431	0.17%	0.029%
175	12.231	12.218	12.253	VV	797	10775	0.16%	0.028%
176	12.265	12.253	12.282	VV	230	2238	0.03%	0.006%
177	12.351	12.282	12.362	PV	642	13001	0.19%	0.033%
178	12.415	12.362	12.444	VV	1864	46230	0.68%	0.119%
179	12.464	12.444	12.495	VV	823	17486	0.26%	0.045%
180	12.579	12.495	12.607	VV	2442	75763	1.11%	0.195%
181	12.636	12.607	12.652	VV	1742	39313	0.58%	0.101%
182	12.669	12.652	12.758	VV	2587	77368	1.13%	0.199%
183	12.786	12.758	12.815	VV	2074	37721	0.55%	0.097%
184	12.825	12.815	12.840	VV	806	10900	0.16%	0.028%
185	12.871	12.840	12.888	VV	992	22612	0.33%	0.058%
186	12.916	12.888	12.951	VV	2760	47406	0.69%	0.122%
187	12.999	12.951	13.035	VV	4316	62279	0.91%	0.160%
188	13.059	13.035	13.108	VV	7571	100375	1.47%	0.259%
189	13.123	13.108	13.162	VV	713	14074	0.21%	0.036%
190	13.178	13.162	13.221	VV	611	10647	0.16%	0.027%
191	13.229	13.221	13.251	VV	122	1421	0.02%	0.004%
192	13.260	13.251	13.282	PV	141	1633	0.02%	0.004%
193	13.326	13.282	13.371	VV	731	19502	0.29%	0.050%
194	13.379	13.371	13.388	VV	355	2737	0.04%	0.007%

rteres.txt								
195	13.416	13.388	13.438	VV	1588	25791	0.38%	0.066%
196	13.467	13.438	13.477	VV	3957	52942	0.78%	0.136%
197	13.511	13.477	13.603	VV	582807	6826426	100.00%	17.584%
198	13.618	13.603	13.641	VV	938	17273	0.25%	0.044%
199	13.673	13.641	13.711	VV	1691	40324	0.59%	0.104%
200	13.726	13.711	13.764	VV	780	20229	0.30%	0.052%
201	13.797	13.764	13.851	VV	893	26620	0.39%	0.069%
202	13.881	13.851	13.915	VV	606	15196	0.22%	0.039%
203	13.948	13.915	13.995	VV	643	19977	0.29%	0.051%
204	14.017	13.995	14.041	VV	699	9973	0.15%	0.026%
205	14.057	14.041	14.091	VV	303	6106	0.09%	0.016%
206	14.116	14.091	14.157	VV	542	10865	0.16%	0.028%
207	14.209	14.157	14.236	VV	3340	45891	0.67%	0.118%
208	14.261	14.236	14.333	VV	4986	68938	1.01%	0.178%
209	14.360	14.333	14.401	PV	288	4459	0.07%	0.011%
210	14.422	14.401	14.441	VV	184	2446	0.04%	0.006%
211	14.485	14.441	14.528	VV	541	18008	0.26%	0.046%
212	14.536	14.528	14.545	VV	143	1528	0.02%	0.004%
213	14.554	14.545	14.573	VV	259	2460	0.04%	0.006%
214	14.597	14.573	14.611	VV	235	3656	0.05%	0.009%
215	14.700	14.611	14.755	VV	10076	139295	2.04%	0.359%
216	14.777	14.755	14.802	VV	396	8289	0.12%	0.021%
217	14.827	14.802	14.865	VV	1153	14242	0.21%	0.037%
218	14.896	14.865	14.918	VV	316	6032	0.09%	0.016%
219	14.953	14.918	14.965	VV	437	7910	0.12%	0.020%
220	14.973	14.965	15.007	VV	428	5475	0.08%	0.014%
221	15.027	15.007	15.043	VV	172	2462	0.04%	0.006%
222	15.056	15.043	15.065	VV	108	830	0.01%	0.002%
223	15.082	15.065	15.110	PV	303	4791	0.07%	0.012%
224	15.149	15.110	15.210	VV	1515	32961	0.48%	0.085%
225	15.223	15.210	15.264	VV	267	4077	0.06%	0.011%
226	15.324	15.264	15.342	VV	2430	37819	0.55%	0.097%
227	15.367	15.342	15.405	VV	4188	68223	1.00%	0.176%
228	15.413	15.405	15.441	VV	384	5884	0.09%	0.015%
229	15.449	15.441	15.498	VV	263	5066	0.07%	0.013%
230	15.532	15.498	15.547	PV	464	6896	0.10%	0.018%
231	15.561	15.547	15.601	VV	293	4450	0.07%	0.011%
232	15.778	15.601	15.824	PV	443	10349	0.15%	0.027%
233	15.849	15.824	15.868	PV	409	6520	0.10%	0.017%
234	15.890	15.868	15.926	VV	1271	21318	0.31%	0.055%
235	15.972	15.926	15.995	VV	338	9108	0.13%	0.023%
236	16.034	15.995	16.048	VV	182	4544	0.07%	0.012%
237	16.157	16.048	16.179	VV	293	8503	0.12%	0.022%
238	16.216	16.179	16.223	VV	217	3835	0.06%	0.010%
239	16.251	16.223	16.291	VV	322	7254	0.11%	0.019%
240	16.353	16.291	16.370	PV	1405	18394	0.27%	0.047%
241	16.393	16.370	16.435	VV	3075	46553	0.68%	0.120%
242	16.454	16.435	16.472	VV	332	5039	0.07%	0.013%
243	16.530	16.472	16.539	PV	227	3777	0.06%	0.010%
244	16.563	16.539	16.580	VV	314	4445	0.07%	0.011%
245	16.675	16.580	16.687	VV	192	8046	0.12%	0.021%
246	16.699	16.687	16.714	PV	224	2111	0.03%	0.005%

rteres.txt								
247	16.877	16.714	16.945	VV	1508	37939	0.56%	0.098%
248	16.963	16.945	16.978	VV	201	2615	0.04%	0.007%
249	17.049	16.978	17.061	VV	124	1635	0.02%	0.004%
250	17.183	17.061	17.190	PV	121	-340	-0.00%	-0.001%
251	17.234	17.190	17.245	PV	408	7291	0.11%	0.019%
252	17.311	17.245	17.322	VV	1488	35118	0.51%	0.090%
253	17.345	17.322	17.381	VV	3402	60551	0.89%	0.156%
254	17.431	17.381	17.445	VV	883	25558	0.37%	0.066%
255	17.542	17.445	17.568	VV	662	44620	0.65%	0.115%
256	17.688	17.568	17.708	VV	533	38238	0.56%	0.098%
257	17.732	17.708	17.741	VV	487	7954	0.12%	0.020%
258	17.796	17.741	17.825	VV	3156	50468	0.74%	0.130%
259	17.884	17.825	17.907	PV	437	4391	0.06%	0.011%
260	18.087	17.907	18.101	PV	456	23281	0.34%	0.060%
261	18.234	18.101	18.262	VV	7032	164812	2.41%	0.425%
262	18.273	18.262	18.277	VV	1112	9547	0.14%	0.025%
263	18.285	18.277	18.291	VV	1087	8687	0.13%	0.022%
264	18.324	18.291	18.344	VV	1266	33798	0.50%	0.087%
265	18.393	18.344	18.405	VV	719	24339	0.36%	0.063%
266	18.427	18.405	18.439	VV	452	7432	0.11%	0.019%
267	18.498	18.439	18.525	VV	579	17308	0.25%	0.045%
268	18.572	18.525	18.611	PV	1614	36250	0.53%	0.093%
269	18.658	18.611	18.698	VV	8121	125183	1.83%	0.322%
270	18.762	18.698	18.775	VV	531	17135	0.25%	0.044%
271	19.068	18.775	19.125	VV	12549	335627	4.92%	0.865%
272	19.173	19.125	19.186	VV	1442	42654	0.62%	0.110%
273	19.216	19.186	19.232	VV	1080	28657	0.42%	0.074%
274	19.330	19.232	19.345	VV	1617	63244	0.93%	0.163%
275	19.378	19.345	19.395	VV	1774	44933	0.66%	0.116%
276	19.466	19.395	19.508	VV	13163	332758	4.87%	0.857%
277	19.722	19.508	19.745	VV	7192	758585	11.11%	1.954%
278	19.852	19.745	19.879	VV	18671	725684	10.63%	1.869%
279	19.899	19.879	19.921	VV	9260	224679	3.29%	0.579%
280	20.098	19.921	20.112	VV	12768	1153619	16.90%	2.972%
281	20.172	20.112	20.184	VV	13706	569854	8.35%	1.468%
282	20.228	20.184	20.262	VV	22989	785281	11.50%	2.023%
283	20.458	20.262	20.485	VV	21114	2370994	34.73%	6.107%
284	20.547	20.485	20.558	VV	22389	940629	13.78%	2.423%
285	20.594	20.558	20.621	VV	32163	997455	14.61%	2.569%
286	20.642	20.621	20.650	VV	25404	428571	6.28%	1.104%
287	20.692	20.650	20.700	VV	27170	780936	11.44%	2.012%
288	20.817	20.700	20.855	VV	29164	2591892	37.97%	6.676%
289	20.875	20.855	20.912	VV	37126	904567	13.25%	2.330%
290	20.925	20.912	20.934	VV	24098	316256	4.63%	0.815%
291	20.962	20.934	21.011	VV	27645	1110401	16.27%	2.860%
292	21.080	21.011	21.111	VV	25422	1371197	20.09%	3.532%
293	21.122	21.111	21.179	VV	22766	883571	12.94%	2.276%
294	21.274	21.179	21.335	VV	22177	1946636	28.52%	5.014%
295	21.370	21.335	21.518	VV	24688	2105416	30.84%	5.423%
296	21.619	21.518	21.628	VV	15557	918675	13.46%	2.366%
297	21.641	21.628	21.665	VV	15448	329084	4.82%	0.848%
298	21.685	21.665	21.700	VV	15135	316128	4.63%	0.814%
299	21.828	21.700	21.874	VV	16670	1513431	22.17%	3.898%

					rteres.txt			
300	21.905	21.874	21.981	VV	13538	787627	11.54%	2.029%
301	22.001	21.981	22.065	VV	9870	433979	6.36%	1.118%
302	22.081	22.065	22.106	VV	7004	162745	2.38%	0.419%
303	22.117	22.106	22.130	VV	5923	82657	1.21%	0.213%
304	22.174	22.130	22.288	VV	6256	383568	5.62%	0.988%
305	22.348	22.288	22.381	PV	3250	90671	1.33%	0.234%
306	22.404	22.381	22.433	VV	2014	49931	0.73%	0.129%
307	22.442	22.433	22.467	VV	1007	11778	0.17%	0.030%
308	22.482	22.467	22.491	PV	507	2659	0.04%	0.007%
					Sum of corrected areas:		38821782	

Aliphatic EPH 092425.M Tue Sep 30 06:34:23 2025

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	09/23/25	
Project:	RFP 916		Date Received:	09/23/25	
Client Sample ID:	EME-TS14-01		SDG No.:	Q3179	
Lab Sample ID:	Q3179-01		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016476.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.71	J	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	7.91	J	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	43.8	J	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.2		40 - 140	98%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	48.6		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.1		40 - 140	94%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3179-01	Acq On:	29 Sep 2025 19:33
Client Sample ID:	EME-TS14-01	Operator:	YP\AJ
Data file:	FF016476.D	Misc:	
Instrument:	FID_F	ALS Vial:	87
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	266219	1.857	200	ug/ml
Aromatic C12-C16	6.398	9.101	574540	3.957	300	ug/ml
Aromatic C16-C21	9.102	13.420	3159636	21.916	500	ug/ml
Aromatic C21-C36	13.421	18.876	852645	6.517	800	ug/ml
Aromatic EPH	4.521	18.876	4853040	34.247		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	7183345	47.12		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	6163999	49.21		ug/ml
2-Fluorobiphenyl (SURR)	8.902	8.902	4098461	48.59		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016476.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 19:33
 Operator : YP\AJ
 Sample : Q3179-01
 Misc :
 ALS Vial : 87 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 EME-TS14-01

Integration File: autoint1.e
 Quant Time: Sep 30 01:05:56 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...	8.027	6163999	49.207 ug/ml
Spiked Amount 50.000		Recovery =	98.41%
6) S 2-Fluorobiphenyl (SURR)	8.902	4098461	48.595 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	97.19%
11) S ortho-Terphenyl (SURR)	11.972	7183345	47.120 ug/ml
Spiked Amount 50.000		Recovery =	94.24%

Target Compounds

(f)=RT Delta > 1/2 Window

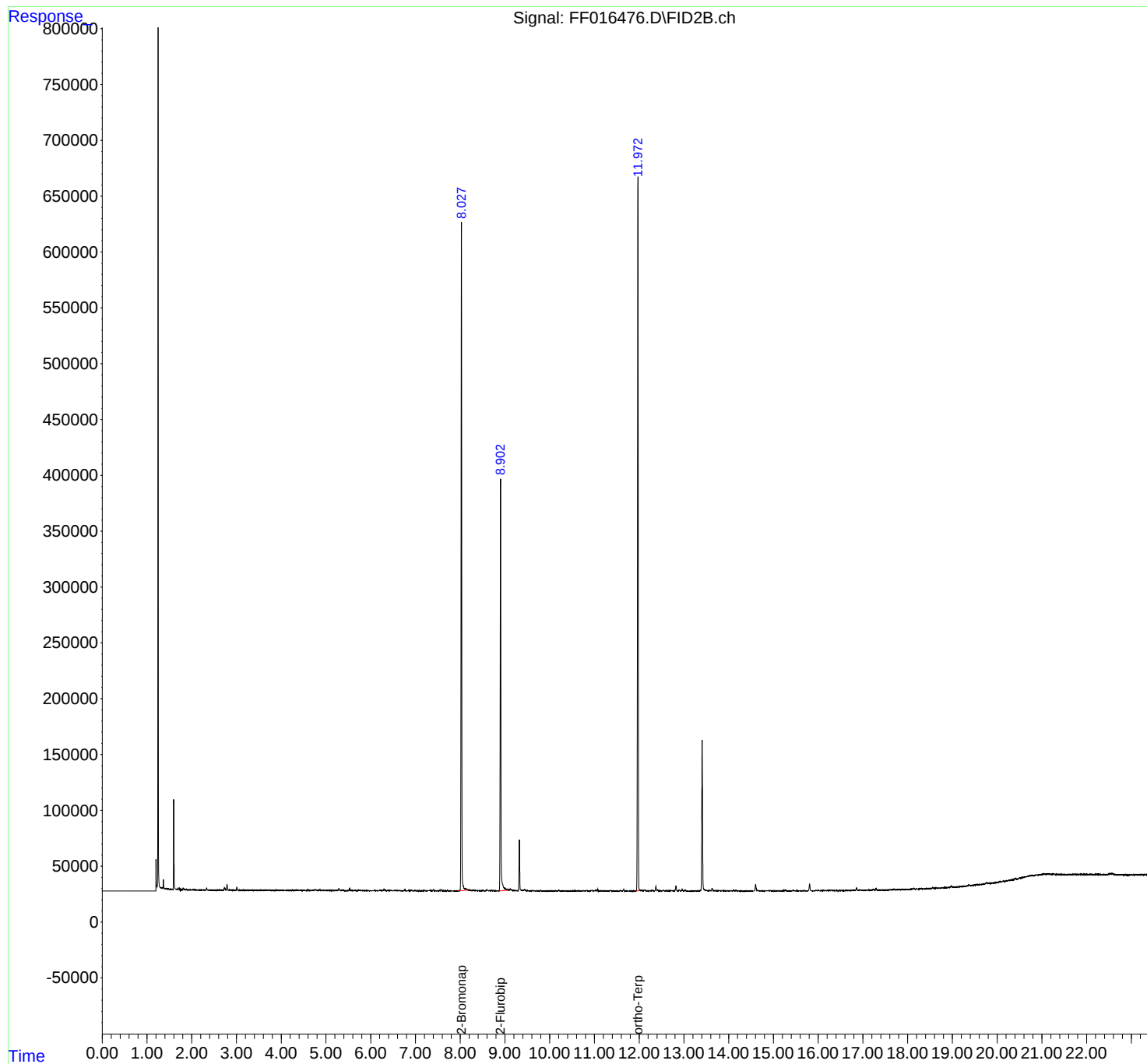
(m)=manual int.

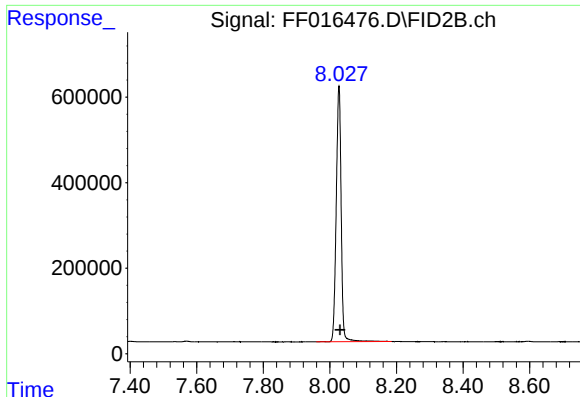
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016476.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 19:33
Operator : YP\AJ
Sample : Q3179-01
Misc :
ALS Vial : 87 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01

Integration File: autoint1.e
Quant Time: Sep 30 01:05:56 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

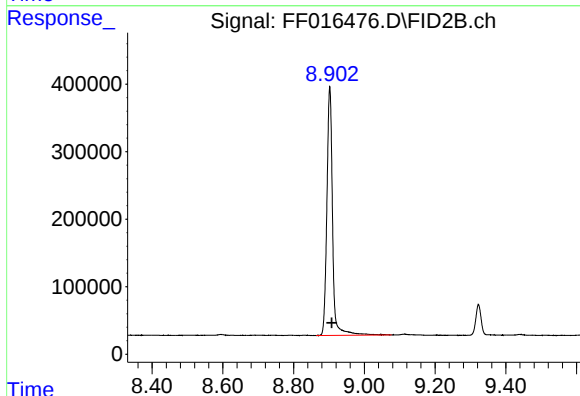




#4 2-Bromonaphthalene (SURR)

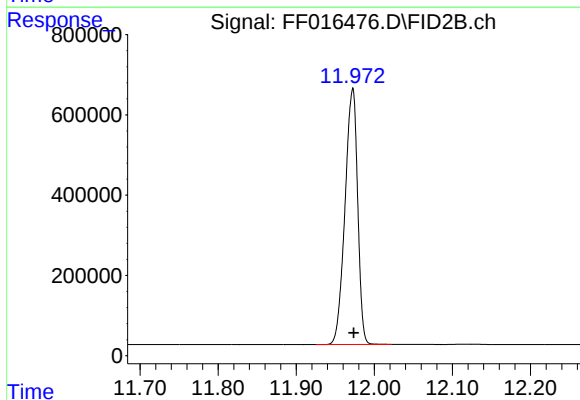
R.T.: 8.027 min
Delta R.T.: -0.003 min
Response: 6163999
Conc: 49.21 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.902 min
Delta R.T.: -0.005 min
Response: 4098461
Conc: 48.59 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 7183345
Conc: 47.12 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016476.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 19:33
Sample : Q3179-01
Misc :
ALS Vial : 87 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	4.450	4.424	4.481	PV	169	2791	0.04%	0.012%
2	4.494	4.481	4.522	VV	245	3122	0.04%	0.014%
3	4.584	4.556	4.606	VV	603	7438	0.10%	0.033%
4	4.618	4.606	4.657	VV	261	3369	0.05%	0.015%
5	4.694	4.676	4.725	VV	345	6834	0.09%	0.031%
6	4.747	4.725	4.760	VV	933	11849	0.16%	0.053%
7	4.772	4.760	4.797	VV	752	9594	0.13%	0.043%
8	4.802	4.797	4.820	VV	102	1522	0.02%	0.007%
9	4.837	4.820	4.851	VV	538	5220	0.07%	0.023%
10	4.870	4.851	4.889	VV	831	9129	0.13%	0.041%
11	4.945	4.904	4.966	VV	256	5877	0.08%	0.026%
12	4.971	4.966	4.982	VV	222	1661	0.02%	0.007%
13	4.997	4.982	5.021	VV	331	4590	0.06%	0.021%
14	5.046	5.021	5.068	VV	231	4309	0.06%	0.019%
15	5.085	5.068	5.121	VV	289	4621	0.06%	0.021%
16	5.164	5.157	5.188	VV	168	1991	0.03%	0.009%
17	5.201	5.188	5.206	VV	182	1313	0.02%	0.006%
18	5.209	5.206	5.219	VV	171	1126	0.02%	0.005%
19	5.230	5.219	5.243	VV	147	1602	0.02%	0.007%
20	5.263	5.243	5.270	VV	359	3537	0.05%	0.016%
21	5.290	5.270	5.317	VV	2111	25980	0.36%	0.116%
22	5.352	5.328	5.366	VV	500	6810	0.09%	0.030%
23	5.381	5.366	5.432	VV	695	10177	0.14%	0.045%
24	5.456	5.448	5.484	VV	132	1553	0.02%	0.007%
25	5.496	5.484	5.508	VV	203	2045	0.03%	0.009%

rteres								
26	5.528	5.508	5.580	VV	2451	30874	0.43%	0.138%
27	5.586	5.580	5.594	VV	189	1486	0.02%	0.007%
28	5.598	5.594	5.611	VV	189	1525	0.02%	0.007%
29	5.662	5.642	5.677	VV	214	3023	0.04%	0.014%
30	5.693	5.677	5.704	VV	214	2198	0.03%	0.010%
31	5.724	5.704	5.745	VV	470	6146	0.09%	0.027%
32	5.772	5.745	5.796	VV	737	11404	0.16%	0.051%
33	5.804	5.796	5.815	VV	180	1729	0.02%	0.008%
34	5.834	5.815	5.840	VV	276	2843	0.04%	0.013%
35	5.842	5.840	5.882	VV	237	3150	0.04%	0.014%
36	5.887	5.882	5.897	VV	147	1009	0.01%	0.005%
37	5.918	5.897	5.924	VV	287	2910	0.04%	0.013%
38	5.927	5.924	5.944	VV	202	1397	0.02%	0.006%
39	5.979	5.967	6.003	PV	132	1746	0.02%	0.008%
40	6.020	6.003	6.033	VV	193	1972	0.03%	0.009%
41	6.038	6.033	6.066	VV	182	2007	0.03%	0.009%
42	6.074	6.066	6.100	VV	282	3734	0.05%	0.017%
43	6.110	6.100	6.162	VV	204	4117	0.06%	0.018%
44	6.171	6.162	6.187	VV	148	1629	0.02%	0.007%
45	6.209	6.192	6.247	VV	534	9416	0.13%	0.042%
46	6.252	6.247	6.257	VV	207	1123	0.02%	0.005%
47	6.260	6.257	6.273	VV	211	1677	0.02%	0.007%
48	6.298	6.273	6.346	VV	1796	28826	0.40%	0.129%
49	6.360	6.346	6.390	VV	389	8131	0.11%	0.036%
50	6.407	6.390	6.435	VV	581	9213	0.13%	0.041%
51	6.473	6.435	6.499	VV	382	8994	0.12%	0.040%
52	6.504	6.499	6.510	VV	172	1045	0.01%	0.005%
53	6.547	6.510	6.578	VV	436	11282	0.16%	0.050%
54	6.601	6.578	6.620	VV	417	6622	0.09%	0.030%
55	6.624	6.620	6.629	VV	238	1188	0.02%	0.005%
56	6.637	6.629	6.657	VV	247	3416	0.05%	0.015%
57	6.664	6.657	6.670	VV	227	1458	0.02%	0.007%
58	6.674	6.670	6.694	VV	226	2560	0.04%	0.011%
59	6.700	6.694	6.710	VV	163	1587	0.02%	0.007%
60	6.762	6.710	6.800	VV	1453	22757	0.32%	0.102%
61	6.807	6.800	6.812	VV	217	1370	0.02%	0.006%
62	6.816	6.812	6.834	VV	210	2522	0.04%	0.011%
63	6.849	6.834	6.864	VV	501	5973	0.08%	0.027%
64	6.886	6.864	6.899	VV	377	5281	0.07%	0.024%
65	6.916	6.899	6.940	VV	732	9032	0.13%	0.040%
66	6.953	6.940	6.972	VV	260	3442	0.05%	0.015%
67	6.991	6.972	7.015	VV	595	7749	0.11%	0.035%
68	7.023	7.015	7.033	VV	208	1738	0.02%	0.008%
69	7.054	7.033	7.074	VV	345	4983	0.07%	0.022%

				rteres				
70	7.078	7.074	7.095	VV	182	1989	0.03%	0.009%
71	7.101	7.095	7.115	VV	141	1265	0.02%	0.006%
72	7.123	7.115	7.137	VV	120	1419	0.02%	0.006%
73	7.162	7.137	7.180	VV	215	3752	0.05%	0.017%
74	7.216	7.180	7.255	VV	539	10706	0.15%	0.048%
75	7.273	7.255	7.301	VV	584	9371	0.13%	0.042%
76	7.326	7.301	7.373	VV	899	18228	0.25%	0.081%
77	7.402	7.373	7.446	VV	1273	22921	0.32%	0.102%
78	7.465	7.446	7.475	VV	266	3720	0.05%	0.017%
79	7.501	7.475	7.520	VV	274	6059	0.08%	0.027%
80	7.535	7.520	7.549	VV	534	5975	0.08%	0.027%
81	7.569	7.549	7.610	VV	1742	22794	0.32%	0.102%
82	7.630	7.610	7.640	VV	389	5028	0.07%	0.022%
83	7.648	7.640	7.665	VV	390	4140	0.06%	0.019%
84	7.678	7.665	7.690	VV	381	3979	0.06%	0.018%
85	7.713	7.690	7.731	VV	500	7365	0.10%	0.033%
86	7.751	7.731	7.761	VV	260	3448	0.05%	0.015%
87	7.780	7.761	7.795	VV	432	6828	0.09%	0.031%
88	7.805	7.795	7.855	VV	430	7684	0.11%	0.034%
89	7.875	7.855	7.888	PV	283	3313	0.05%	0.015%
90	7.949	7.907	7.962	VV	330	6962	0.10%	0.031%
91	7.980	7.962	7.992	VV	727	8730	0.12%	0.039%
92	8.027	7.992	8.109	VV	599497	6160709	85.50%	27.544%
93	8.117	8.109	8.195	VV	2118	79020	1.10%	0.353%
94	8.205	8.195	8.228	VV	1018	16897	0.23%	0.076%
95	8.232	8.228	8.264	VV	725	12987	0.18%	0.058%
96	8.290	8.264	8.332	VV	818	22817	0.32%	0.102%
97	8.342	8.332	8.374	VV	575	11011	0.15%	0.049%
98	8.397	8.374	8.442	VV	539	16546	0.23%	0.074%
99	8.447	8.442	8.470	VV	384	5196	0.07%	0.023%
100	8.503	8.470	8.534	VV	532	15919	0.22%	0.071%
101	8.557	8.534	8.573	VV	493	10068	0.14%	0.045%
102	8.595	8.573	8.641	VV	1587	28507	0.40%	0.127%
103	8.650	8.641	8.655	VV	347	2670	0.04%	0.012%
104	8.657	8.655	8.661	VV	353	1122	0.02%	0.005%
105	8.692	8.661	8.725	VV	577	15963	0.22%	0.071%
106	8.747	8.725	8.771	VV	467	8771	0.12%	0.039%
107	8.788	8.771	8.815	VV	424	7368	0.10%	0.033%
108	8.830	8.815	8.869	VV	497	7782	0.11%	0.035%
109	8.902	8.869	9.044	VV	368734	4141252	57.47%	18.515%
110	9.050	9.044	9.077	VV	1361	24462	0.34%	0.109%
111	9.080	9.077	9.093	VV	1062	9546	0.13%	0.043%
112	9.114	9.093	9.178	VV	2123	59783	0.83%	0.267%

rteres								
113	9.197	9.178	9.232	VV	625	15217	0.21%	0.068%
114	9.257	9.232	9.272	VV	575	10921	0.15%	0.049%
115	9.323	9.272	9.390	VV	46146	508676	7.06%	2.274%
116	9.402	9.390	9.413	VV	797	9838	0.14%	0.044%
117	9.439	9.413	9.469	VV	1722	31885	0.44%	0.143%
118	9.476	9.469	9.495	VV	568	6836	0.09%	0.031%
119	9.514	9.495	9.536	VV	574	9262	0.13%	0.041%
120	9.560	9.536	9.584	VV	437	7543	0.10%	0.034%
121	9.609	9.584	9.631	VV	645	11993	0.17%	0.054%
122	9.646	9.631	9.690	VV	396	8978	0.12%	0.040%
123	9.714	9.690	9.759	VV	410	10097	0.14%	0.045%
124	9.792	9.769	9.838	VV	748	13394	0.19%	0.060%
125	9.868	9.838	9.905	VV	414	8131	0.11%	0.036%
126	9.935	9.905	9.957	VV	347	5983	0.08%	0.027%
127	9.977	9.957	10.017	VV	215	6074	0.08%	0.027%
128	10.040	10.017	10.060	VV	583	7387	0.10%	0.033%
129	10.074	10.060	10.095	VV	170	2383	0.03%	0.011%
130	10.125	10.095	10.155	VV	535	9452	0.13%	0.042%
131	10.160	10.155	10.179	VV	206	2126	0.03%	0.010%
132	10.204	10.179	10.255	VV	1069	17133	0.24%	0.077%
133	10.277	10.255	10.287	VV	276	3878	0.05%	0.017%
134	10.291	10.287	10.295	VV	271	1080	0.01%	0.005%
135	10.304	10.295	10.329	VV	259	4202	0.06%	0.019%
136	10.335	10.329	10.344	VV	171	1077	0.01%	0.005%
137	10.379	10.344	10.396	VV	215	4454	0.06%	0.020%
138	10.432	10.396	10.472	VV	298	7402	0.10%	0.033%
139	10.481	10.472	10.498	VV	181	2099	0.03%	0.009%
140	10.530	10.498	10.552	VV	365	7769	0.11%	0.035%
141	10.559	10.552	10.585	VV	323	4825	0.07%	0.022%
142	10.602	10.585	10.617	VV	428	6153	0.09%	0.028%
143	10.636	10.617	10.659	VV	414	7256	0.10%	0.032%
144	10.690	10.659	10.707	VV	367	7596	0.11%	0.034%
145	10.724	10.707	10.742	VV	632	8885	0.12%	0.040%
146	10.762	10.742	10.782	VV	424	7244	0.10%	0.032%
147	10.829	10.782	10.864	VV	497	17292	0.24%	0.077%
148	10.895	10.864	10.914	VV	418	10290	0.14%	0.046%
149	10.960	10.914	10.981	VV	484	14706	0.20%	0.066%
150	11.003	10.981	11.012	VV	402	5758	0.08%	0.026%
151	11.043	11.012	11.054	VV	681	13105	0.18%	0.059%
152	11.076	11.054	11.114	VV	1302	19377	0.27%	0.087%
153	11.136	11.114	11.151	VV	329	6174	0.09%	0.028%
154	11.165	11.151	11.184	VV	302	4616	0.06%	0.021%
155	11.204	11.184	11.250	VV	363	10841	0.15%	0.048%

rteres									
156	11.266	11.250	11.301	VV	269	7186	0.10%	0.032%	
157	11.316	11.301	11.325	VV	226	2905	0.04%	0.013%	
158	11.364	11.325	11.425	VV	571	17895	0.25%	0.080%	
159	11.458	11.425	11.494	VV	209	4978	0.07%	0.022%	
160	11.510	11.494	11.526	PV	160	1969	0.03%	0.009%	
161	11.582	11.526	11.610	VV	914	14288	0.20%	0.064%	
162	11.651	11.610	11.678	VV	1570	22989	0.32%	0.103%	
163	11.727	11.678	11.769	VV	289	10206	0.14%	0.046%	
164	11.781	11.769	11.797	VV	192	2578	0.04%	0.012%	
165	11.808	11.797	11.828	VV	153	2302	0.03%	0.010%	
166	11.843	11.828	11.854	VV	123	1412	0.02%	0.006%	
167	11.870	11.854	11.886	VV	146	1699	0.02%	0.008%	
168	11.895	11.886	11.909	VV	109	1048	0.01%	0.005%	
169	11.972	11.925	12.027	VV	638159	7205718	100.00%	32.216%	
170	12.039	12.027	12.089	VV	747	21495	0.30%	0.096%	
171	12.113	12.089	12.166	VV	1076	28733	0.40%	0.128%	
172	12.179	12.166	12.205	VV	261	5043	0.07%	0.023%	
173	12.218	12.205	12.232	VV	252	3374	0.05%	0.015%	
174	12.246	12.232	12.262	VV	272	4430	0.06%	0.020%	
175	12.311	12.262	12.337	VV	654	20208	0.28%	0.090%	
176	12.373	12.337	12.397	VV	4229	57770	0.80%	0.258%	
177	12.412	12.397	12.440	VV	1410	20327	0.28%	0.091%	
178	12.456	12.440	12.472	VV	356	6635	0.09%	0.030%	
179	12.481	12.472	12.500	VV	383	5457	0.08%	0.024%	
180	12.542	12.500	12.576	VV	775	19654	0.27%	0.088%	
181	12.611	12.576	12.650	VV	439	14395	0.20%	0.064%	
182	12.661	12.650	12.677	VV	315	4969	0.07%	0.022%	
183	12.698	12.677	12.720	VV	492	10241	0.14%	0.046%	
184	12.732	12.720	12.765	VV	427	10854	0.15%	0.049%	
185	12.773	12.765	12.785	VV	414	4219	0.06%	0.019%	
186	12.823	12.785	12.854	VV	4831	70957	0.98%	0.317%	
187	12.900	12.854	12.932	VV	1298	24675	0.34%	0.110%	
188	12.962	12.932	12.995	VV	1574	23452	0.33%	0.105%	
189	13.026	12.995	13.067	VV	707	15061	0.21%	0.067%	
190	13.090	13.067	13.119	VV	247	4567	0.06%	0.020%	
191	13.147	13.119	13.154	VV	109	1330	0.02%	0.006%	
192	13.239	13.154	13.284	PV	425	14033	0.19%	0.063%	
193	13.287	13.284	13.300	VV	190	1489	0.02%	0.007%	
194	13.325	13.300	13.349	VV	358	7972	0.11%	0.036%	
195	13.408	13.349	13.554	VV	135136	1727670	23.98%	7.724%	
196	13.577	13.554	13.607	VV	546	13776	0.19%	0.062%	
197	13.630	13.607	13.670	VV	2505	40724	0.57%	0.182%	
198	13.693	13.670	13.755	VV	453	16500	0.23%	0.074%	
199	13.793	13.755	13.818	VV	460	13157	0.18%	0.059%	

				rteres				
200	13.870	13.818	13.893	VV	491	16776	0.23%	0.075%
201	13.919	13.893	13.935	VV	378	7226	0.10%	0.032%
202	13.954	13.935	13.962	VV	358	4593	0.06%	0.021%
203	13.969	13.962	13.976	VV	317	2566	0.04%	0.011%
204	13.982	13.976	14.004	VV	326	4543	0.06%	0.020%
205	14.033	14.004	14.065	VV	392	10409	0.14%	0.047%
206	14.073	14.065	14.080	VV	246	1770	0.02%	0.008%
207	14.111	14.080	14.140	VV	1018	16719	0.23%	0.075%
208	14.163	14.140	14.207	VV	1005	17264	0.24%	0.077%
209	14.220	14.207	14.267	VV	196	4048	0.06%	0.018%
210	14.290	14.267	14.325	VV	116	2016	0.03%	0.009%
211	14.403	14.350	14.429	PV	129	4368	0.06%	0.020%
212	14.439	14.429	14.452	VV	149	1438	0.02%	0.006%
213	14.458	14.452	14.539	VV	171	5367	0.07%	0.024%
214	14.602	14.539	14.715	VV	5893	109262	1.52%	0.489%
215	14.729	14.715	14.767	VV	385	6945	0.10%	0.031%
216	14.828	14.767	14.864	VV	359	15234	0.21%	0.068%
217	14.878	14.864	14.919	VV	357	9310	0.13%	0.042%
218	14.936	14.919	14.965	VV	407	8103	0.11%	0.036%
219	14.986	14.965	14.997	VV	233	4042	0.06%	0.018%
220	15.043	14.997	15.064	VV	334	8640	0.12%	0.039%
221	15.079	15.064	15.134	VV	293	8153	0.11%	0.036%
222	15.151	15.134	15.183	VV	187	2682	0.04%	0.012%
223	15.225	15.183	15.245	VV	582	11393	0.16%	0.051%
224	15.269	15.245	15.342	VV	1005	20696	0.29%	0.093%
225	15.370	15.342	15.397	PV	152	2900	0.04%	0.013%
226	15.440	15.397	15.495	VV	738	15350	0.21%	0.069%
227	15.513	15.495	15.542	VV	260	4294	0.06%	0.019%
228	15.572	15.542	15.610	VV	210	4831	0.07%	0.022%
229	15.641	15.610	15.669	VV	234	4902	0.07%	0.022%
230	15.690	15.669	15.738	VV	301	6767	0.09%	0.030%
231	15.809	15.738	15.843	VV	6166	88323	1.23%	0.395%
232	15.851	15.843	15.884	VV	151	2899	0.04%	0.013%
233	15.903	15.884	15.919	VV	154	2163	0.03%	0.010%
234	15.938	15.919	15.961	VV	175	3663	0.05%	0.016%
235	16.001	15.961	16.052	VV	400	9048	0.13%	0.040%
236	16.117	16.052	16.128	VV	260	7427	0.10%	0.033%
237	16.153	16.128	16.169	VV	246	5019	0.07%	0.022%
238	16.176	16.169	16.199	VV	208	2400	0.03%	0.011%
239	16.217	16.199	16.231	VV	229	3318	0.05%	0.015%
240	16.254	16.231	16.273	VV	389	6997	0.10%	0.031%
241	16.294	16.273	16.321	VV	766	12212	0.17%	0.055%
242	16.343	16.321	16.367	VV	283	4628	0.06%	0.021%

rteres									
243	16.405	16.367	16.420	VV	181	3158	0.04%	0.014%	
244	16.441	16.420	16.455	VV	178	2308	0.03%	0.010%	
245	16.485	16.455	16.527	VV	121	2823	0.04%	0.013%	
246	16.589	16.527	16.603	PV	91	1829	0.03%	0.008%	
247	16.640	16.603	16.649	VV	151	2031	0.03%	0.009%	
248	16.676	16.649	16.695	VV	133	2604	0.04%	0.012%	
249	16.704	16.695	16.738	VV	67	1596	0.02%	0.007%	
250	16.780	16.738	16.834	VV	457	9188	0.13%	0.041%	
251	16.860	16.834	16.895	VV	2671	36769	0.51%	0.164%	
252	16.922	16.895	17.024	VV	563	23821	0.33%	0.107%	
253	17.033	17.024	17.049	VV	156	2247	0.03%	0.010%	
254	17.060	17.049	17.070	VV	207	1791	0.02%	0.008%	
255	17.134	17.070	17.167	VV	270	11620	0.16%	0.052%	
256	17.172	17.167	17.184	VV	226	1920	0.03%	0.009%	
257	17.246	17.184	17.270	VV	848	23540	0.33%	0.105%	
258	17.295	17.270	17.344	VV	1601	26662	0.37%	0.119%	
259	17.362	17.344	17.397	VV	183	3915	0.05%	0.018%	
260	17.409	17.397	17.463	VV	192	3754	0.05%	0.017%	
261	17.481	17.463	17.507	PV	142	2044	0.03%	0.009%	
262	17.529	17.507	17.545	PV	150	2168	0.03%	0.010%	
263	17.576	17.545	17.601	VV	312	6098	0.08%	0.027%	
264	17.698	17.601	17.737	VV	662	16346	0.23%	0.073%	
265	17.792	17.737	17.834	VV	286	8104	0.11%	0.036%	
266	17.842	17.834	17.855	VV	84	1191	0.02%	0.005%	
267	17.907	17.855	17.916	VV	131	3744	0.05%	0.017%	
268	17.934	17.916	17.974	VV	148	2986	0.04%	0.013%	
269	17.987	17.974	18.002	VV	117	1463	0.02%	0.007%	
270	18.009	18.002	18.024	VV	125	1039	0.01%	0.005%	
271	18.136	18.024	18.174	PV	994	22464	0.31%	0.100%	
272	18.191	18.174	18.229	VV	156	2220	0.03%	0.010%	
273	18.306	18.229	18.332	PV	256	6790	0.09%	0.030%	
274	18.372	18.332	18.385	VV	78	2009	0.03%	0.009%	
275	18.418	18.385	18.444	PV	324	6325	0.09%	0.028%	
276	18.488	18.444	18.495	PV	84	1629	0.02%	0.007%	
277	18.526	18.495	18.534	VV	112	1959	0.03%	0.009%	
278	18.561	18.534	18.605	VV	952	16384	0.23%	0.073%	
279	18.662	18.605	18.684	VV	158	5395	0.07%	0.024%	
280	18.696	18.684	18.730	VV	150	2108	0.03%	0.009%	
281	18.787	18.730	18.799	PV	123	1687	0.02%	0.008%	
282	18.828	18.799	18.850	VBA	83	2055	0.03%	0.009%	
Sum of corrected areas:						22366622			

Aromatic EPH 092425.M Tue Sep 30 01:31:41 2025

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Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879TB		SDG No.:	Q3179	
Lab Sample ID:	PB169879TB		Matrix:	water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056075.D	1		09/30/25	FE092925AL

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.6		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169879TB	Acq On:	30 Sep 2025 07:06
Client Sample ID:	PB169879TB	Operator:	YP\AJ
Data file:	FE056075.D	Misc:	
Instrument:	FID_E	ALS Vial:	44
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	0	0	300	ug/ml
Aliphatic C12-C16	6.947	10.396	0	0	200	ug/ml
Aliphatic C16-C21	10.397	13.773	0	0	300	ug/ml
Aliphatic C21-C28	13.774	17.443	0	0	400	ug/ml
Aliphatic C28-C40	17.444	22.449	0	0	600	ug/ml
Aliphatic EPH	3.315	22.449	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	4690622	33.61		ug/ml
Aliphatic C9-C28	3.315	17.443	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056075.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 07:06
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 08:10:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 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			
12) S 1-chlorooctadecane (S...	13.511	4690622	33.609 ug/ml
Spiked Amount 50.000		Recovery =	67.22%

Target Compounds

(f)=RT Delta > 1/2 Window

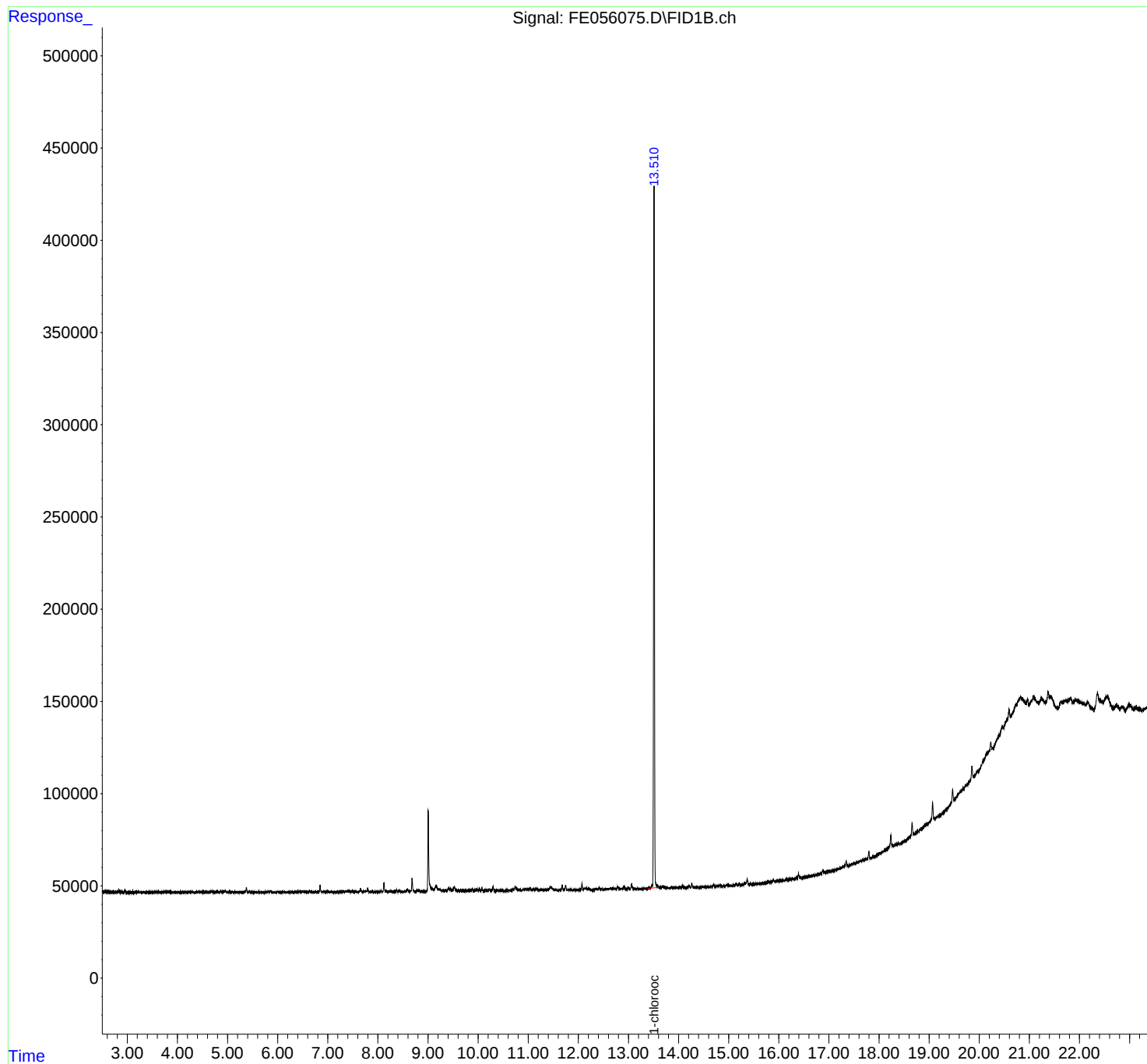
(m)=manual int.

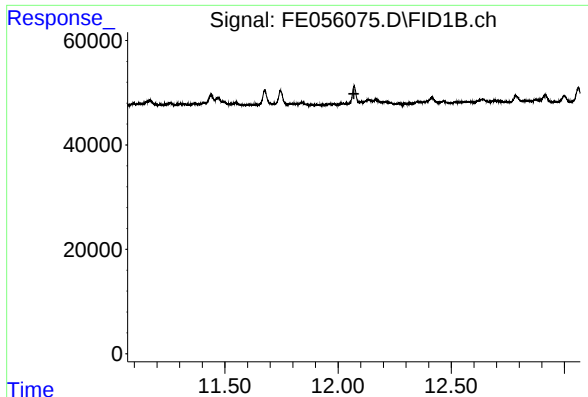
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056075.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 07:06
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 08:10:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

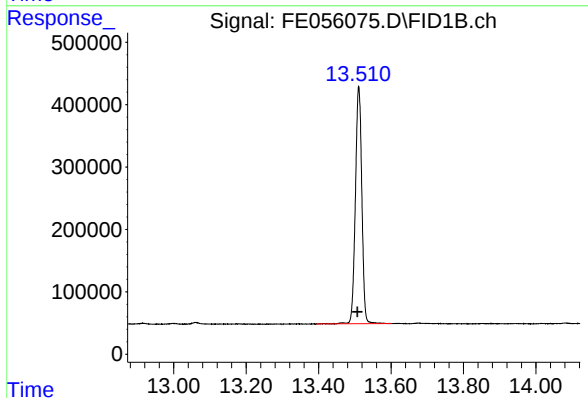




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 12.070 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
PB169879TB



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min
Delta R.T.: 0.004 min
Response: 4690622
Conc: 33.61 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056075.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 07:06
Sample : PB169879TB
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.511	13.393	13.602	BB	380082	4690622	100.00%	100.000%
Sum of corrected areas:						4690622		

Aliphatic EPH 092425.M Tue Sep 30 08:14:46 2025

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879TB		SDG No.:	Q3179	
Lab Sample ID:	PB169879TB		Matrix:	water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016472.D	1		09/29/25	FF092925AR

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.0		40 - 140	96%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	43.2		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.9		40 - 140	78%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169879TB	Acq On:	29 Sep 2025 17:35
Client Sample ID:	PB169879TB	Operator:	YP\AJ
Data file:	FF016472.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	6.397	0	0	200	ug/ml
Aromatic C12-C16	6.398	9.101	0	0	300	ug/ml
Aromatic C16-C21	9.102	13.420	0	0	500	ug/ml
Aromatic C21-C36	13.421	18.876	0	0	800	ug/ml
Aromatic EPH	4.521	18.876	0	0		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	6015712	48.02		ug/ml
2-Fluorobiphenyl (SURR)	8.902	8.902	3646317	43.23		ug/ml
ortho-Terphenyl (SURR)	11.971	11.971	5934502	38.93		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016472.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 17:35
 Operator : YP\AJ
 Sample : PB169879TB
 Misc :
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB169879TB

Integration File: autoint1.e
 Quant Time: Sep 30 01:04:35 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...	8.027	6015712	48.023 ug/ml
Spiked Amount 50.000		Recovery =	96.05%
6) S 2-Fluorobiphenyl (SURR)	8.902	3646317	43.234 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	86.47%
11) S ortho-Terphenyl (SURR)	11.971	5934502	38.928 ug/ml
Spiked Amount 50.000		Recovery =	77.86%

Target Compounds

(f)=RT Delta > 1/2 Window

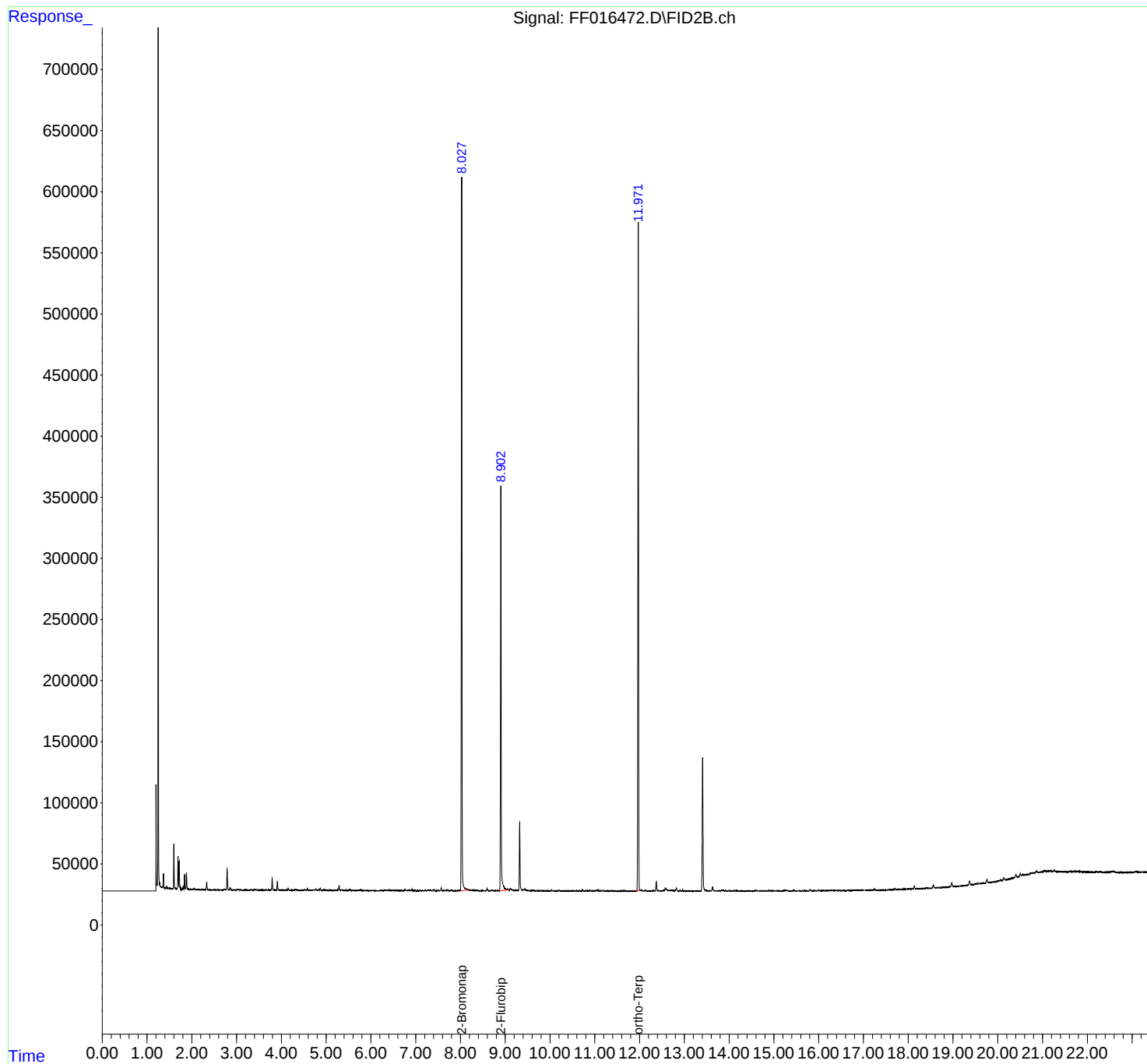
(m)=manual int.

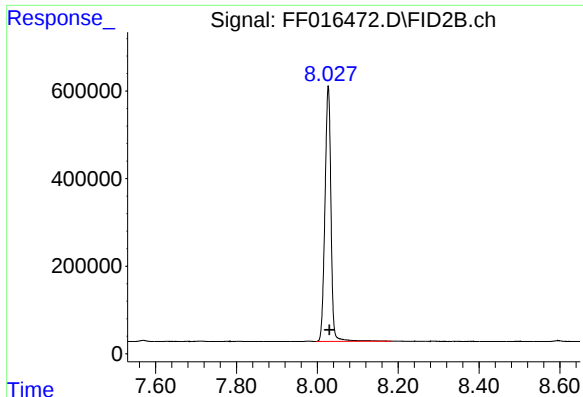
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016472.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:35
Operator : YP\AJ
Sample : PB169879TB
Misc :
ALS Vial : 83 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879TB

Integration File: autoint1.e
Quant Time: Sep 30 01:04:35 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

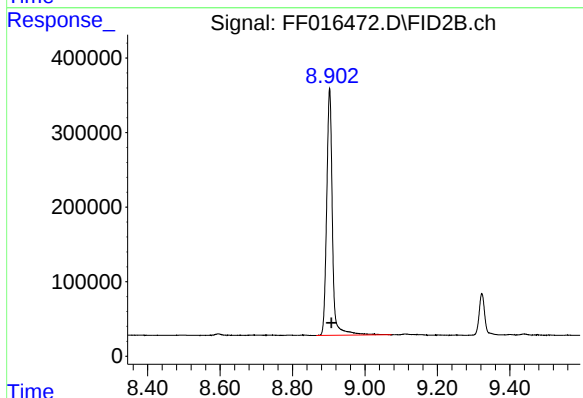




#4 2-Bromonaphthalene (SURR)

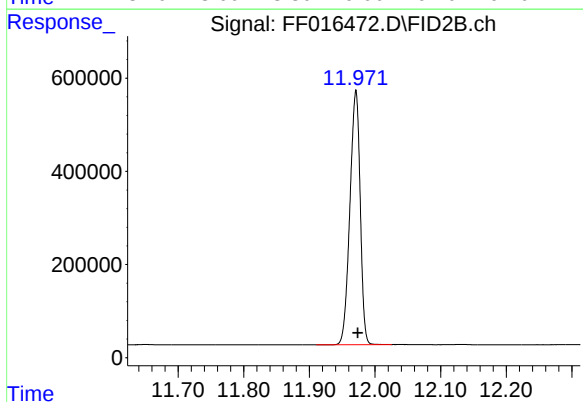
R.T.: 8.027 min
Delta R.T.: -0.004 min
Response: 6015712
Conc: 48.02 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879TB



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.902 min
Delta R.T.: -0.005 min
Response: 3646317
Conc: 43.23 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.971 min
Delta R.T.: -0.003 min
Response: 5934502
Conc: 38.93 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016472.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:35
Sample : PB169879TB
Misc :
ALS Vial : 83 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	8.027	7.997	8.184	PB	584415	6015712	100.00%	38.571%
2	8.902	8.865	9.074	BB	331338	3646317	60.61%	23.379%
3	11.971	11.910	12.025	BB	544549	5934502	98.65%	38.050%
Sum of corrected areas:						15596530		

Aromatic EPH 092425.M Tue Sep 30 01:28:23 2025



CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Initial Calibration Report for SequenceID : FE092425AL

AreaCount

Parameter Range	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.D	
Aliphatic C9-C12	37542791.000	22892697.000	8462672.000	4191009.000	2124515.000	
Aliphatic C12-C16	28448375.000	15981763.000	6036724.000	3116285.000	1580906.000	
Aliphatic C16-C21	47319022.000	24326712.000	9480340.000	5176882.000	2683832.000	
Aliphatic C21-C28	56499296.000	28330990.000	11268637.000	6189034.000	3282975.000	
Aliphatic C28-C40	72708634.000	38000593.000	15509370.000	8760386.000	4744762.000	
Aliphatic EPH	242518118.000	129532755.000	50757743.000	27433596.000	14416990.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	140027.9566664	6.995				
Aliphatic C12-C16	153376.491	4.607				
Aliphatic C16-C21	165879.737333	5.694				
Aliphatic C21-C28	148527.1505	7.073				
Aliphatic C28-C40	136251.923333	11.27				
Aliphatic EPH	146449.7892216	6.809				

Concentration

Parameter Range	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.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	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.D	
Aliphatic C9-C12	125142.636666	152617.980000	141044.533333	139700.300000	141634.333333	
Aliphatic C12-C16	142241.875000	159817.630000	150918.100000	155814.250000	158090.600000	
Aliphatic C16-C21	157730.073333	162178.080000	158005.666666	172562.733333	178922.133333	

Initial Calibration Report for SequenceID : FE092425AL

Aliphatic C21-C28	141248.240000	141654.950000	140857.962500	154725.850000	164148.750000	
Aliphatic C28-C40	121181.056666	126668.643333	129244.750000	146006.433333	158158.733333	
Aliphatic EPH	134732.287777	143925.283333	140993.730555	152408.866666	160188.777777	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055962.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 09:07
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Sep 24 11:03:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 11:00:43 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)	12.083	17950450	100.309 ug/ml
Spiked Amount 50.000		Recovery =	200.62%
12) S 1-chlorooctadecane (S...	13.517	13586232	101.305 ug/ml
Spiked Amount 50.000		Recovery =	202.61%
Target Compounds			
1) T n-Nonane (C9)	3.411	12115570	93.377 ug/ml
2) T n-Decane (C10)	4.672	12431596	93.812 ug/ml
3) T A~Naphthalene (C11.7)	6.393	15093772	97.535 ug/ml
4) T n-Dodecane (C12)	6.849	12995625	94.848 ug/ml
5) T A~2-methylnaphthalene...	7.496	15025333	99.098 ug/ml
6) T n-Tetradecane (C14)	8.687	13579491	96.250 ug/ml
7) T n-Hexadecane (C16)	10.303	14868884	97.774 ug/ml
8) T n-Octadecane (C18)	11.755	15922809	98.959 ug/ml
10) T n-Eicosane (C20)	13.069	15819296	100.191 ug/ml
11) T n-Heneicosane (C21)	13.683	15576917	100.620 ug/ml
13) T n-Docosane (C22)	14.272	15366782	100.893 ug/ml
14) T n-Tetracosane (C24)	15.378	14649046	100.840 ug/ml
15) T n-Hexacosane (C26)	16.402	13607731	100.166 ug/ml
16) T n-Octacosane (C28)	17.355	12875737	98.451 ug/ml
17) T n-Tricontane (C30)	18.245	13054346	96.132 ug/ml
18) T n-Dotriacontane (C32)	19.079	12955482	94.902 ug/ml
19) T n-Tetratriacontane (C34)	19.864	12597203	95.888 ug/ml
20) T n-Hexatriacontane (C36)	20.607	11820206	97.397 ug/ml
21) T n-Octatriacontane (C38)	21.384	11503060	99.564 ug/ml
22) T n-Tetracontane (C40)	22.374	10778337	97.367 ug/ml

(f)=RT Delta > 1/2 Window

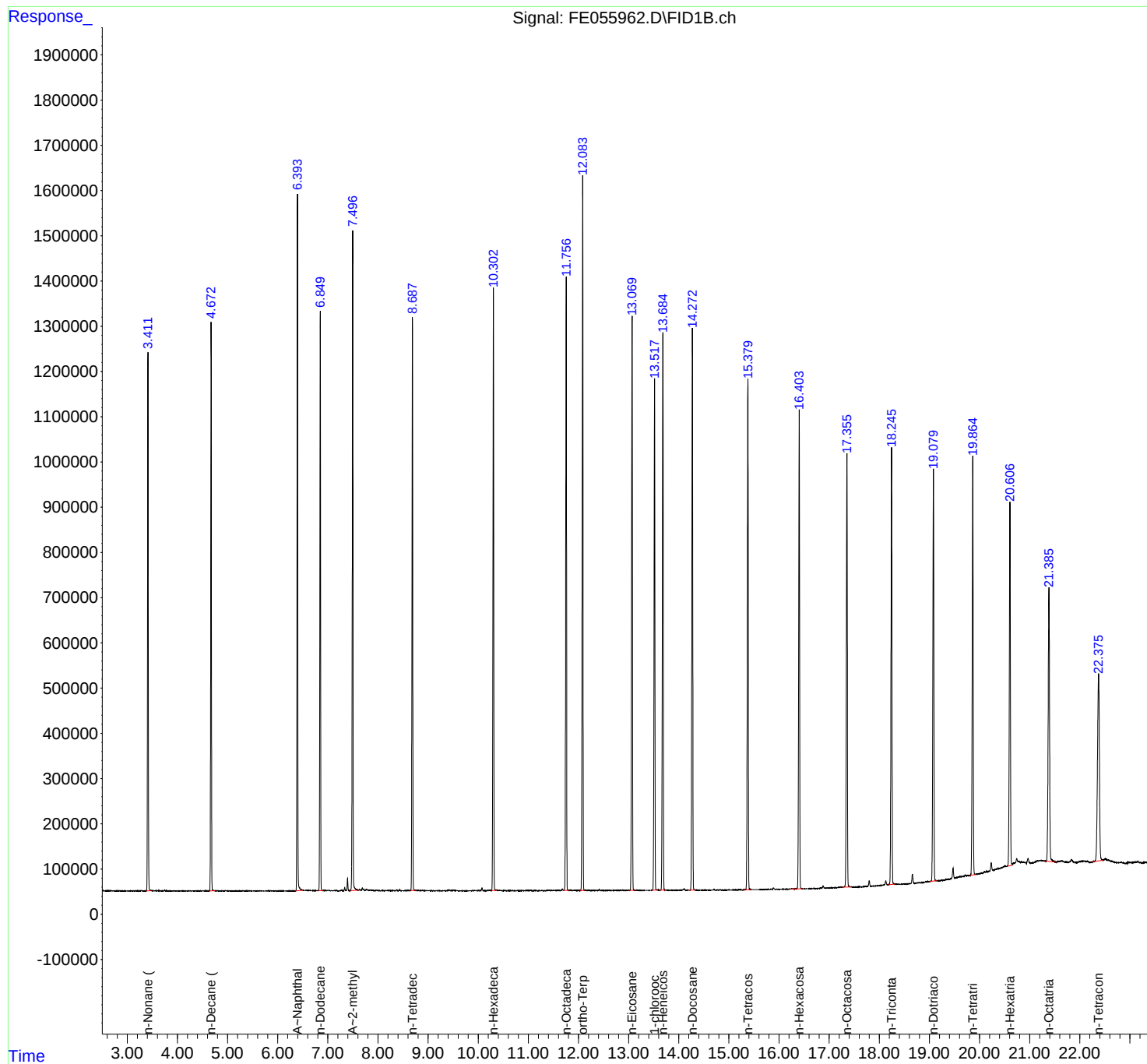
(m)=manual int.

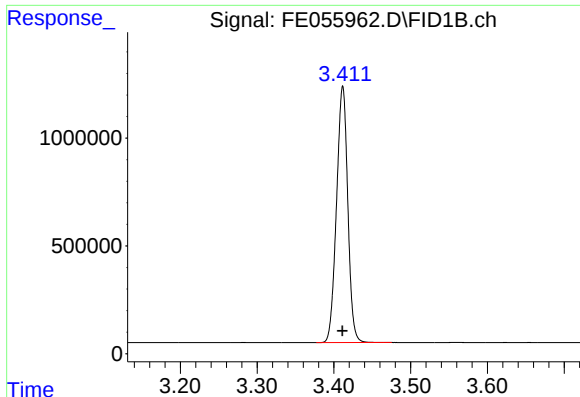
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Data File : FE055962.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:07
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 11:03:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

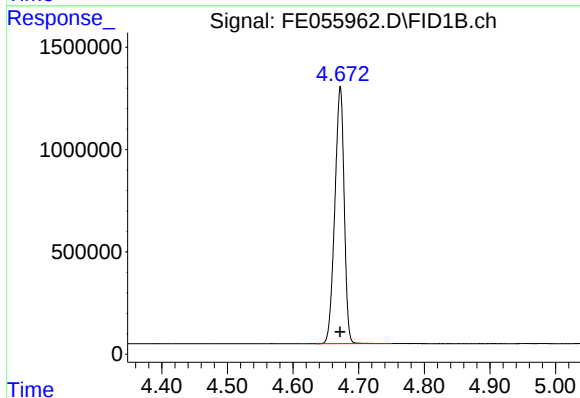




#1 n-Nonane (C9)

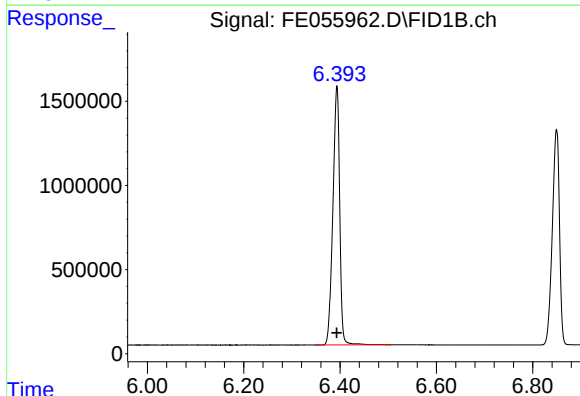
R.T.: 3.411 min
Delta R.T.: 0.000 min
Response: 12115570
Conc: 93.38 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



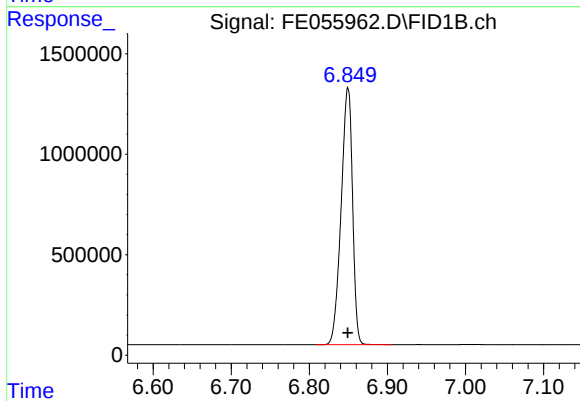
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 12431596
Conc: 93.81 ug/ml



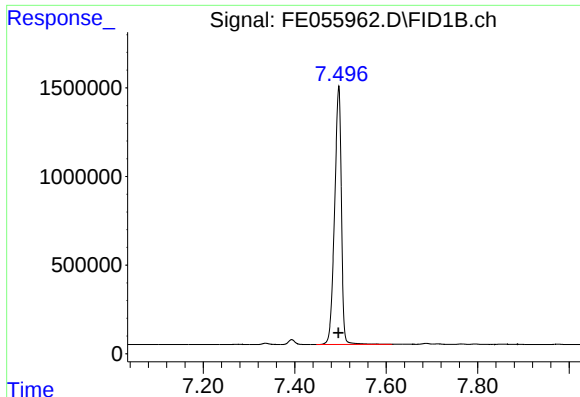
#3 A~Naphthalene (C11.7)

R.T.: 6.393 min
Delta R.T.: 0.000 min
Response: 15093772
Conc: 97.54 ug/ml



#4 n-Dodecane (C12)

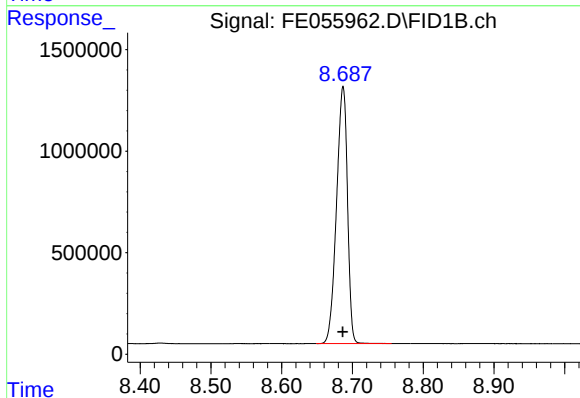
R.T.: 6.849 min
Delta R.T.: 0.000 min
Response: 12995625
Conc: 94.85 ug/ml



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

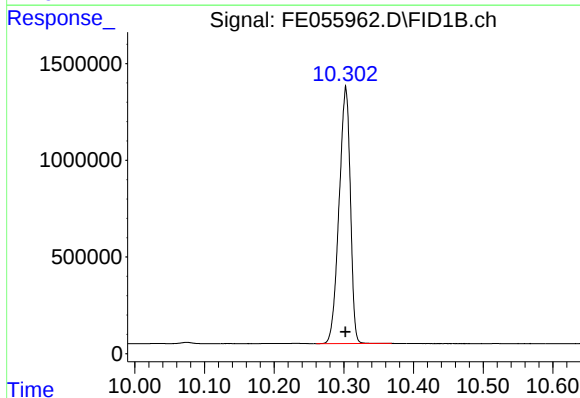
R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 15025333
Conc: 99.10 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



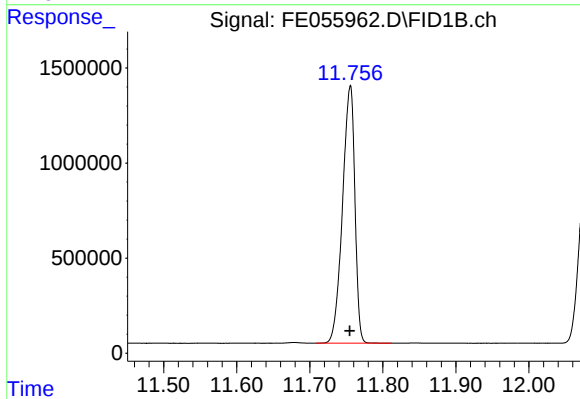
#6 n-Tetradecane (C14)

R.T.: 8.687 min
Delta R.T.: 0.000 min
Response: 13579491
Conc: 96.25 ug/ml



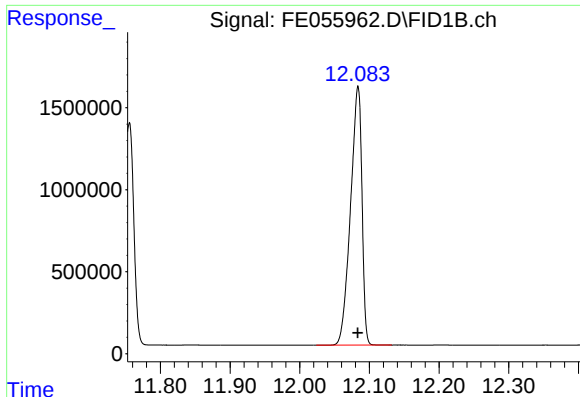
#7 n-Hexadecane (C16)

R.T.: 10.303 min
Delta R.T.: 0.000 min
Response: 14868884
Conc: 97.77 ug/ml



#8 n-Octadecane (C18)

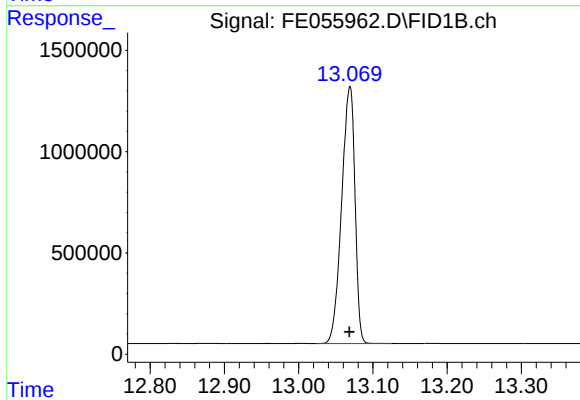
R.T.: 11.755 min
Delta R.T.: 0.000 min
Response: 15922809
Conc: 98.96 ug/ml



#9 ortho-Terphenyl (SURR)

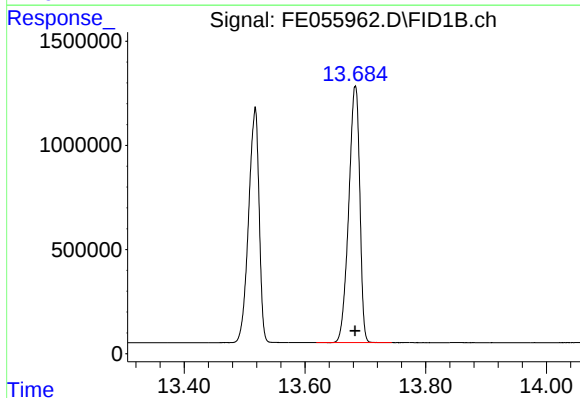
R.T.: 12.083 min
Delta R.T.: 0.000 min
Response: 17950450
Conc: 100.31 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



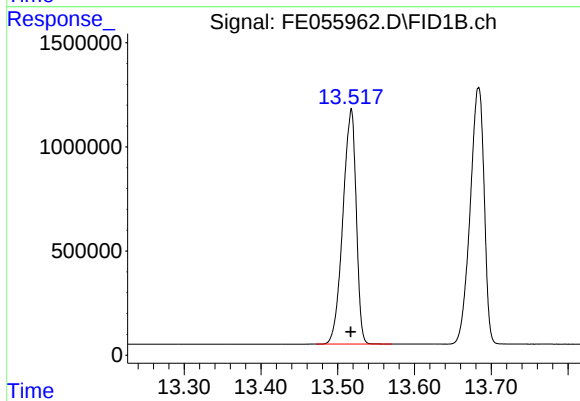
#10 n-Eicosane (C20)

R.T.: 13.069 min
Delta R.T.: 0.000 min
Response: 15819296
Conc: 100.19 ug/ml



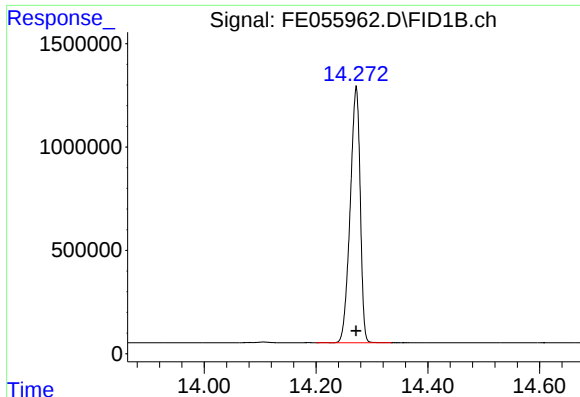
#11 n-Heneicosane (C21)

R.T.: 13.683 min
Delta R.T.: 0.000 min
Response: 15576917
Conc: 100.62 ug/ml



#12 1-chlorooctadecane (SURR)

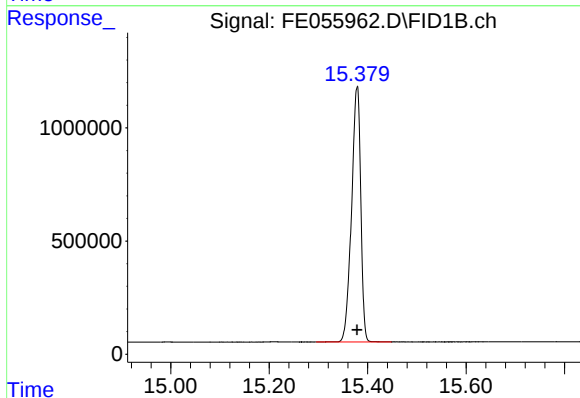
R.T.: 13.517 min
Delta R.T.: 0.000 min
Response: 13586232
Conc: 101.30 ug/ml



#13 n-Docosane (C22)

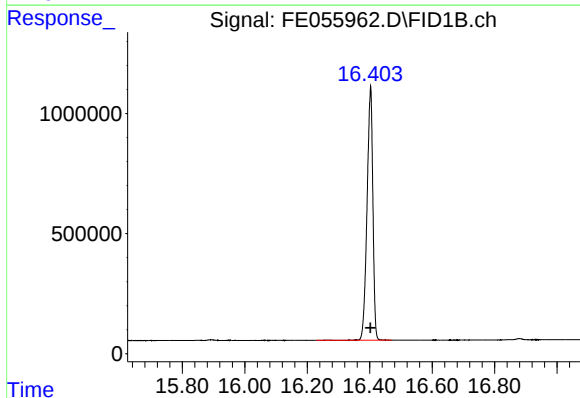
R.T.: 14.272 min
Delta R.T.: 0.000 min
Response: 15366782
Conc: 100.89 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



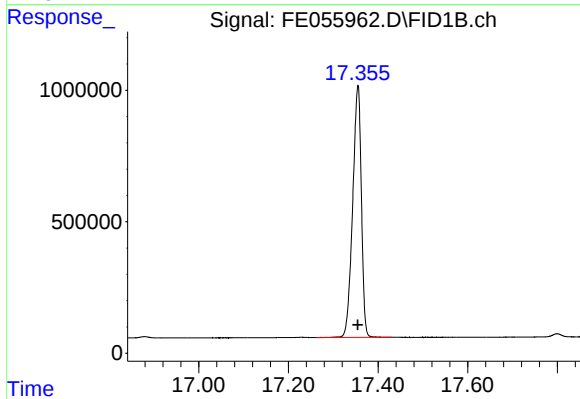
#14 n-Tetracosane (C24)

R.T.: 15.378 min
Delta R.T.: 0.000 min
Response: 14649046
Conc: 100.84 ug/ml



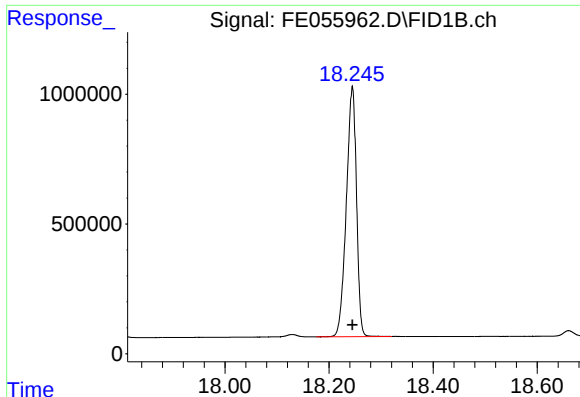
#15 n-Hexacosane (C26)

R.T.: 16.402 min
Delta R.T.: 0.000 min
Response: 13607731
Conc: 100.17 ug/ml



#16 n-Octacosane (C28)

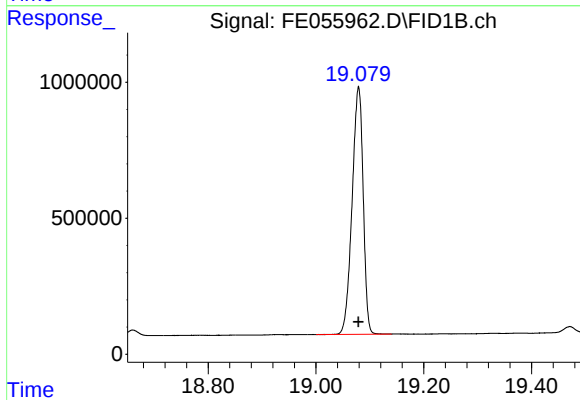
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 12875737
Conc: 98.45 ug/ml



#17 n-Tricontane (C30)

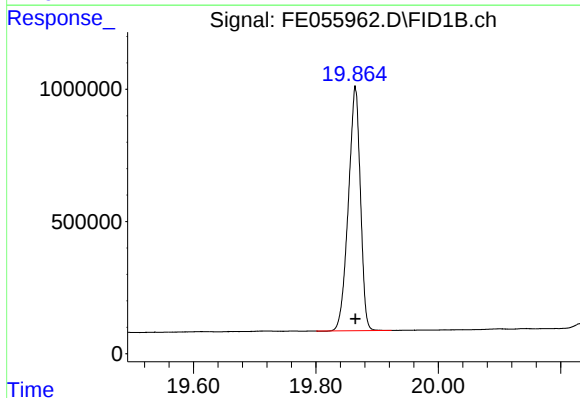
R.T.: 18.245 min
Delta R.T.: 0.000 min
Response: 13054346
Conc: 96.13 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



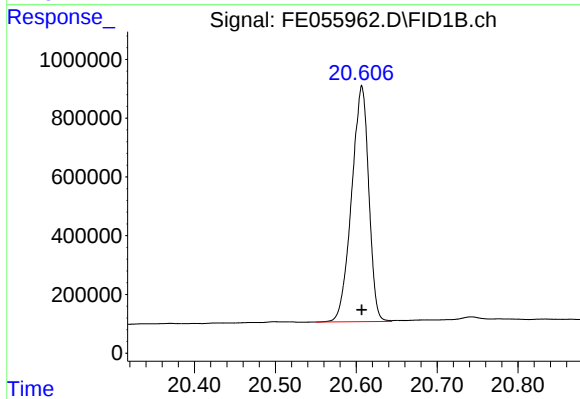
#18 n-Dotriacontane (C32)

R.T.: 19.079 min
Delta R.T.: 0.000 min
Response: 12955482
Conc: 94.90 ug/ml



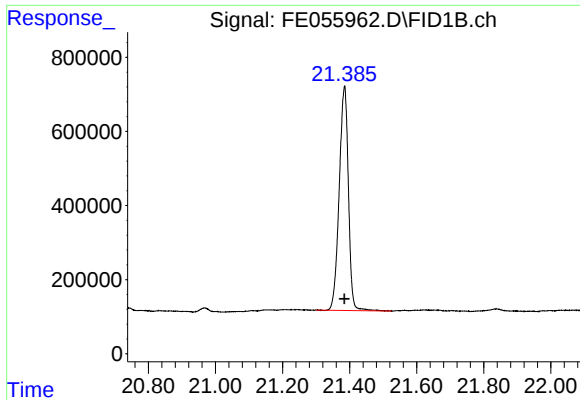
#19 n-Tetratriacontane (C34)

R.T.: 19.864 min
Delta R.T.: 0.000 min
Response: 12597203
Conc: 95.89 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.607 min
Delta R.T.: 0.000 min
Response: 11820206
Conc: 97.40 ug/ml



#21 n-Octatriacontane (C38)

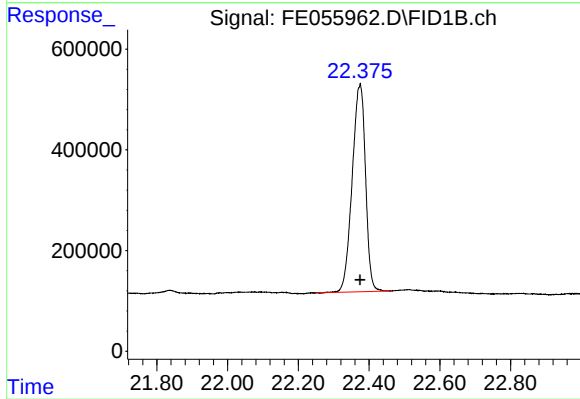
R.T.: 21.384 min
Delta R.T.: 0.000 min
Response: 11503060
Conc: 99.56 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.374 min
Delta R.T.: 0.000 min
Response: 10778337
Conc: 97.37 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055962.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:07
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.377	3.475	BB	1193159	12115570	67.49%	3.983%
2	4.672	4.635	4.750	BB	1259842	12431596	69.26%	4.087%
3	6.393	6.350	6.507	BB	1548803	15093772	84.09%	4.962%
4	6.849	6.809	6.905	BB	1279643	12995625	72.40%	4.272%
5	7.496	7.447	7.612	BV	1444836	15025333	83.70%	4.940%
6	8.687	8.649	8.755	BB	1270645	13579491	75.65%	4.464%
7	10.303	10.260	10.369	BB	1320044	14868884	82.83%	4.888%
8	11.755	11.709	11.812	BB	1355244	15922809	88.70%	5.235%
9	12.083	12.024	12.132	BB	1585493	17950450	100.00%	5.901%
10	13.069	13.024	13.125	BB	1269287	15819296	88.13%	5.201%
11	13.517	13.472	13.570	BB	1123920	13586232	75.69%	4.467%
12	13.683	13.619	13.744	BB	1232389	15576917	86.78%	5.121%
13	14.272	14.200	14.335	BB	1243326	15366782	85.61%	5.052%
14	15.378	15.295	15.449	BB	1126624	14649046	81.61%	4.816%
15	16.402	16.229	16.470	BB	1045801	13607731	75.81%	4.474%
16	17.355	17.262	17.430	BB	961185	12875737	71.73%	4.233%
17	18.245	18.175	18.320	BB	969341	13054346	72.72%	4.292%
18	19.079	19.000	19.140	BB	910160	12955482	72.17%	4.259%
19	19.864	19.800	19.924	BB	924104	12597203	70.18%	4.141%
20	20.607	20.550	20.644	BV	804428	11820206	65.85%	3.886%
21	21.385	21.300	21.525	BV	607871	11503060	64.08%	3.782%
22	22.374	22.250	22.464	BV	410718	10778337	60.04%	3.543%
Sum of corrected areas:						304173905		

Aliphatic EPH 092425.M Wed Sep 24 15:36:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055963.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 09:37
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Sep 24 11:04:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 11:00:43 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)	12.077	9105995	50.587 ug/ml
Spiked Amount 50.000		Recovery =	101.17%
12) S 1-chlorooctadecane (S...	13.512	6779455	50.366 ug/ml
Spiked Amount 50.000		Recovery =	100.73%
Target Compounds			
1) T n-Nonane (C9)	3.414	7521327	55.044 ug/ml
2) T n-Decane (C10)	4.671	7621160	54.769 ug/ml
3) T A~Naphthalene (C11.7)	6.390	8539649	53.340 ug/ml
4) T n-Dodecane (C12)	6.846	7750210	54.193 ug/ml
5) T A~2-methylnaphthalene...	7.492	8232099	52.783 ug/ml
6) T n-Tetradecane (C14)	8.683	7796895	53.390 ug/ml
7) T n-Hexadecane (C16)	10.299	8184868	52.484 ug/ml
8) T n-Octadecane (C18)	11.750	8429200	51.566 ug/ml
10) T n-Eicosane (C20)	13.064	8067243	50.724 ug/ml
11) T n-Heneicosane (C21)	13.679	7830269	50.385 ug/ml
13) T n-Docosane (C22)	14.267	7654502	50.171 ug/ml
14) T n-Tetracosane (C24)	15.374	7266695	50.015 ug/ml
15) T n-Hexacosane (C26)	16.397	6822136	50.145 ug/ml
16) T n-Octacosane (C28)	17.350	6587657	50.247 ug/ml
17) T n-Tricontane (C30)	18.240	6773890	49.922 ug/ml
18) T n-Dotriacontane (C32)	19.075	6740087	49.580 ug/ml
19) T n-Tetratriacontane (C34)	19.861	6516174	49.733 ug/ml
20) T n-Hexatriacontane (C36)	20.601	6074929	50.038 ug/ml
21) T n-Octatriacontane (C38)	21.379	6099413	51.828 ug/ml
22) T n-Tetracontane (C40)	22.366	5796100	51.549 ug/ml

(f)=RT Delta > 1/2 Window

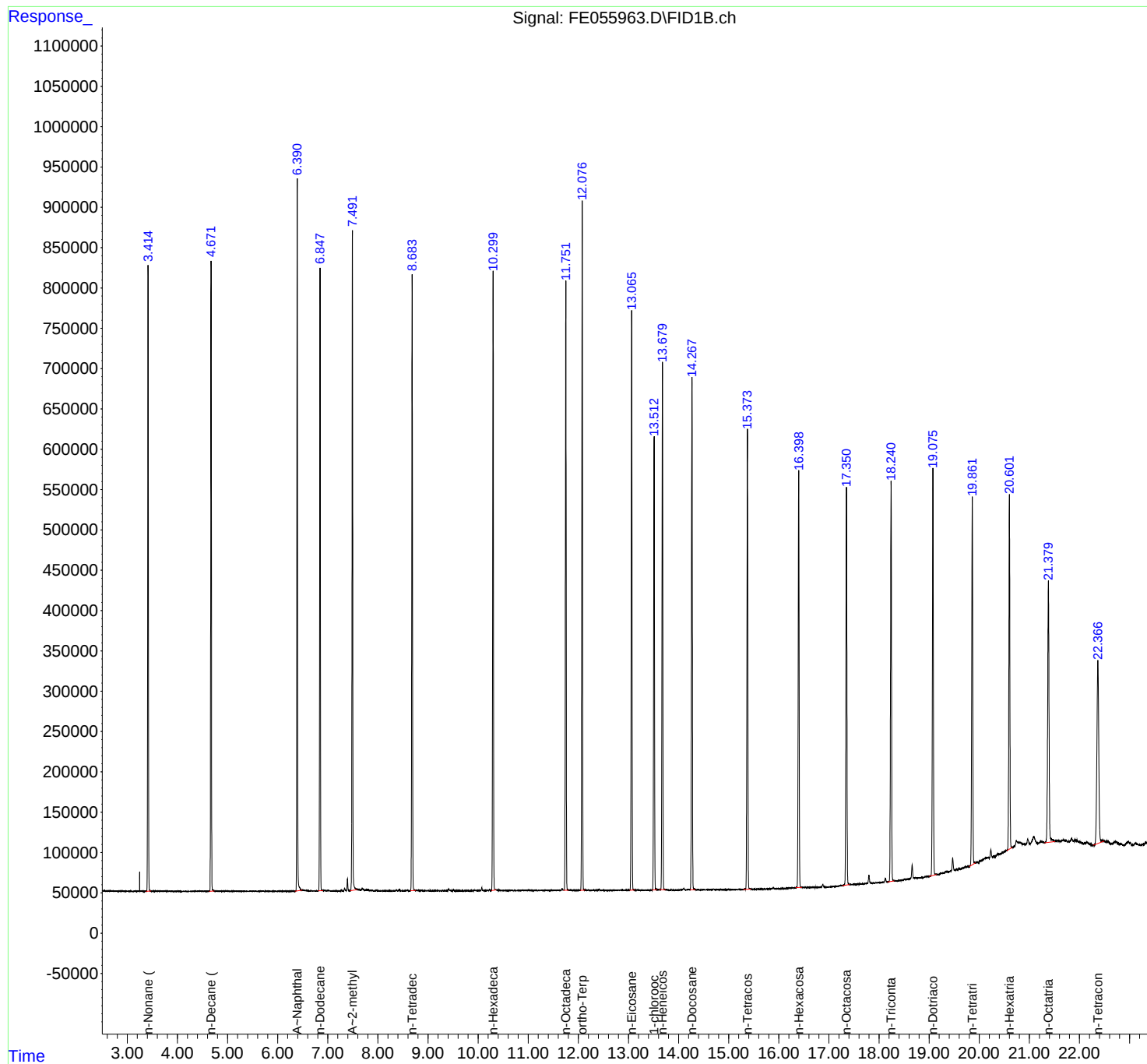
(m)=manual int.

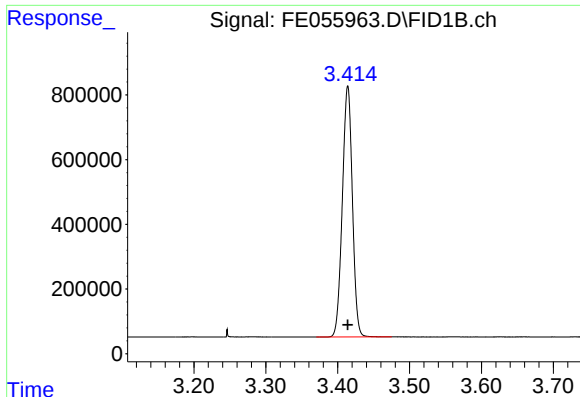
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 11:04:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

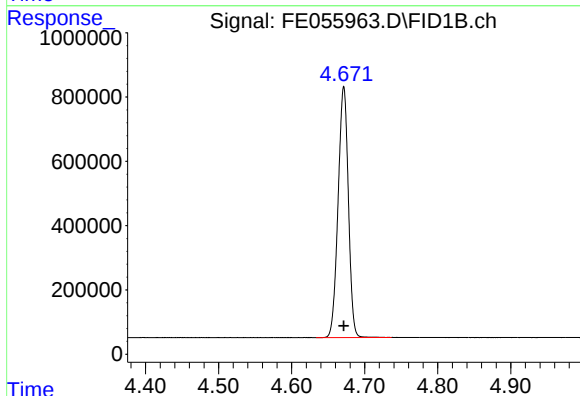




#1 n-Nonane (C9)

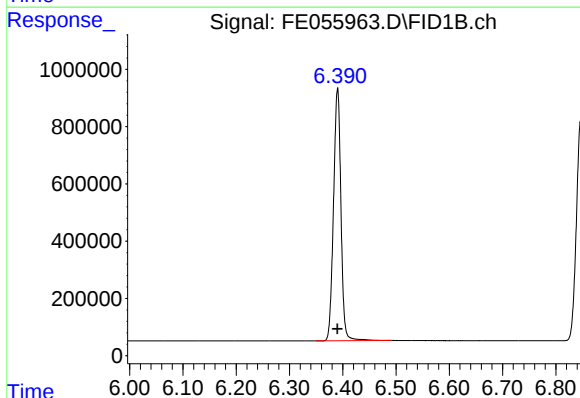
R.T.: 3.414 min
Delta R.T.: 0.000 min
Response: 7521327
Conc: 55.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



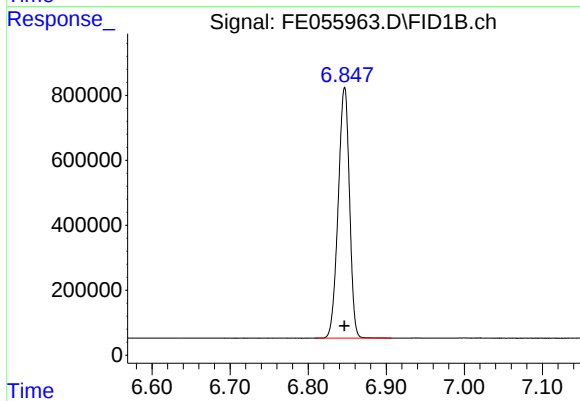
#2 n-Decane (C10)

R.T.: 4.671 min
Delta R.T.: 0.000 min
Response: 7621160
Conc: 54.77 ug/ml



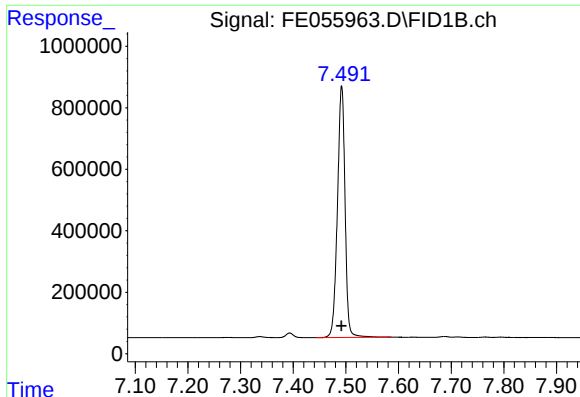
#3 A~Naphthalene (C11.7)

R.T.: 6.390 min
Delta R.T.: 0.000 min
Response: 8539649
Conc: 53.34 ug/ml



#4 n-Dodecane (C12)

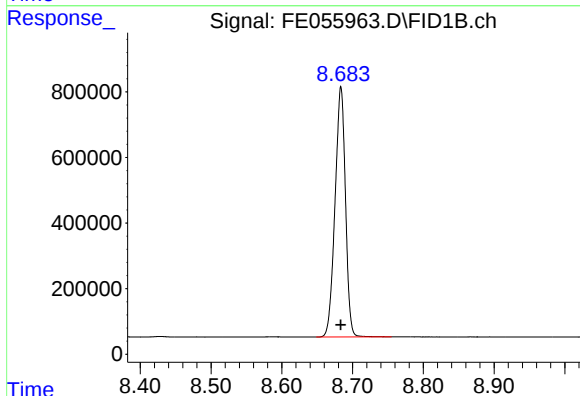
R.T.: 6.846 min
Delta R.T.: 0.000 min
Response: 7750210
Conc: 54.19 ug/ml



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

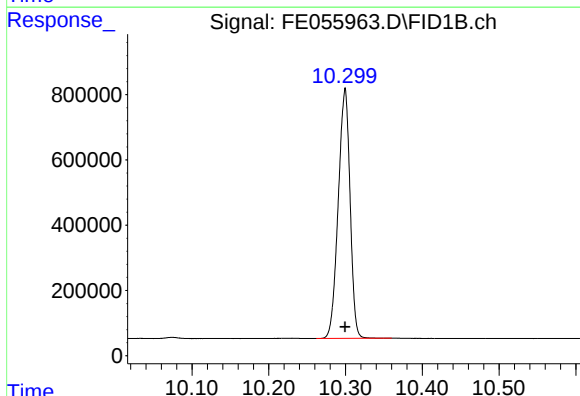
R.T.: 7.492 min
Delta R.T.: 0.000 min
Response: 8232099
Conc: 52.78 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



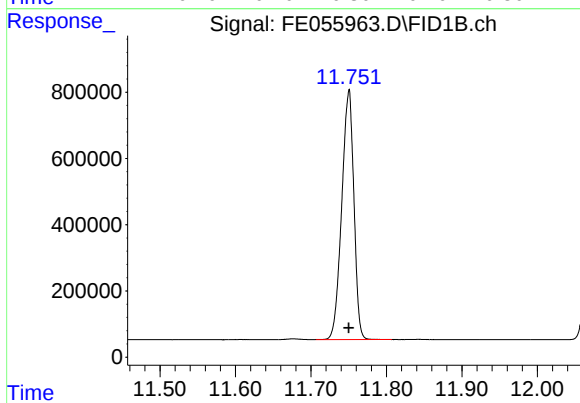
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 7796895
Conc: 53.39 ug/ml



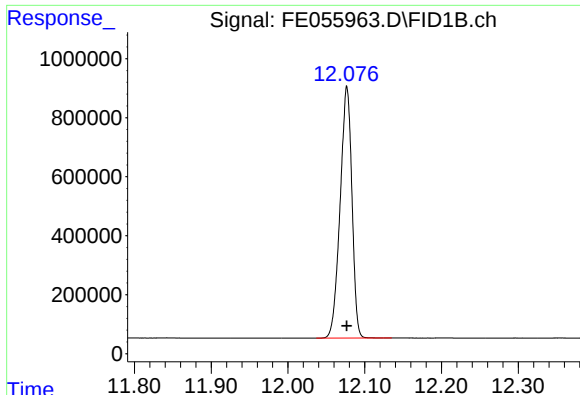
#7 n-Hexadecane (C16)

R.T.: 10.299 min
Delta R.T.: 0.000 min
Response: 8184868
Conc: 52.48 ug/ml



#8 n-Octadecane (C18)

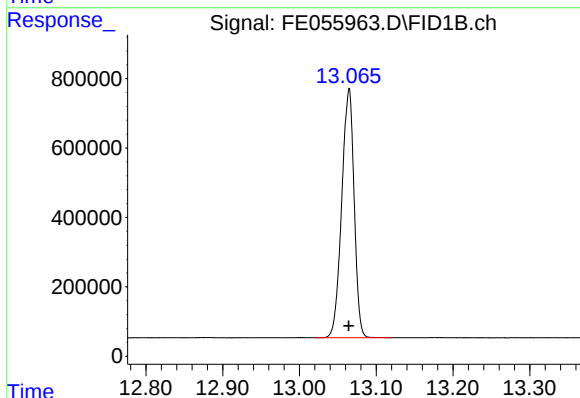
R.T.: 11.750 min
Delta R.T.: 0.000 min
Response: 8429200
Conc: 51.57 ug/ml



#9 ortho-Terphenyl (SURR)

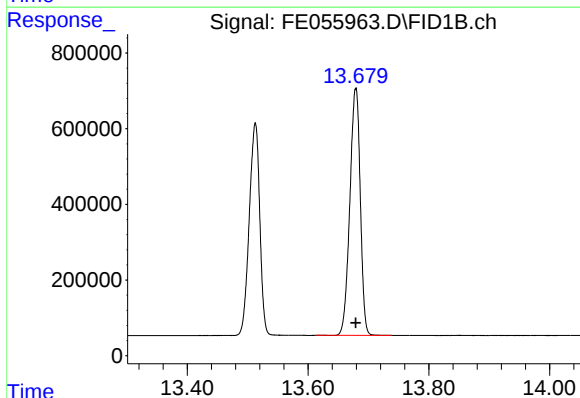
R.T.: 12.077 min
Delta R.T.: 0.000 min
Response: 9105995
Conc: 50.59 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



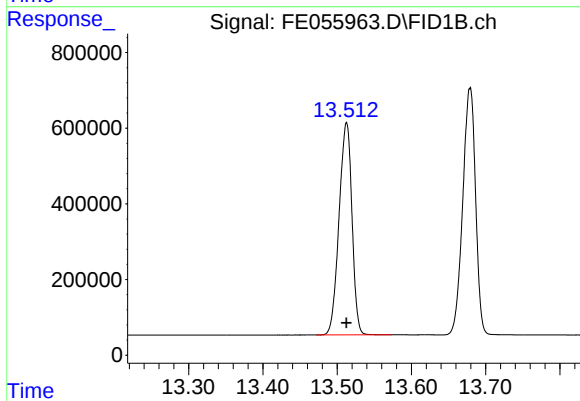
#10 n-Eicosane (C20)

R.T.: 13.064 min
Delta R.T.: 0.000 min
Response: 8067243
Conc: 50.72 ug/ml



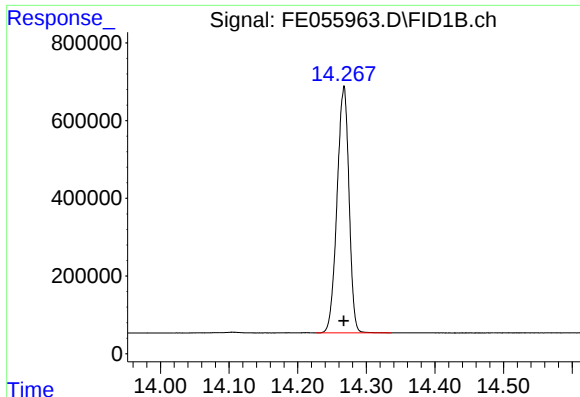
#11 n-Heneicosane (C21)

R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 7830269
Conc: 50.39 ug/ml



#12 1-chlorooctadecane (SURR)

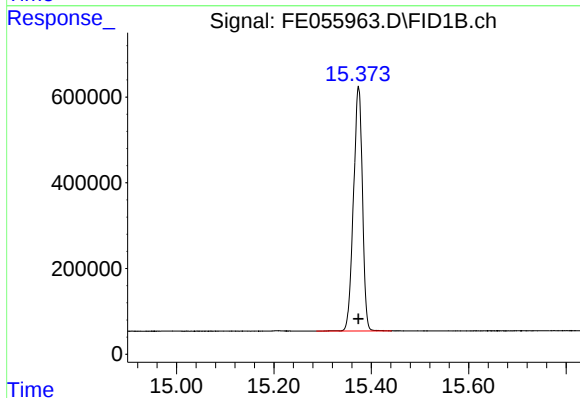
R.T.: 13.512 min
Delta R.T.: 0.000 min
Response: 6779455
Conc: 50.37 ug/ml



#13 n-Docosane (C22)

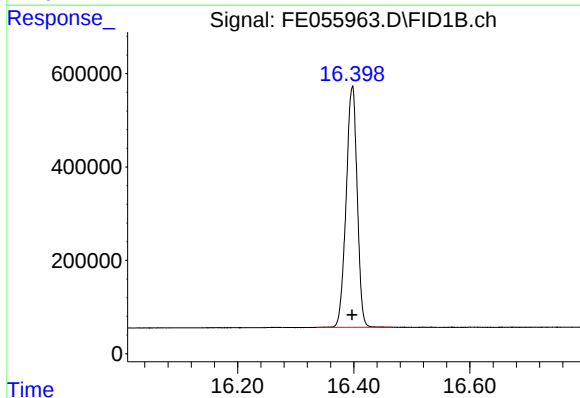
R.T.: 14.267 min
Delta R.T.: 0.000 min
Response: 7654502
Conc: 50.17 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



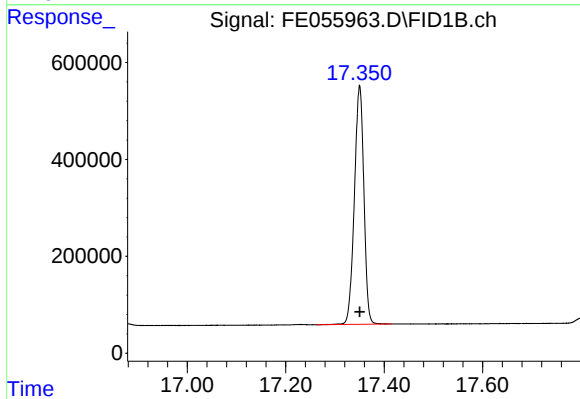
#14 n-Tetracosane (C24)

R.T.: 15.374 min
Delta R.T.: 0.000 min
Response: 7266695
Conc: 50.01 ug/ml



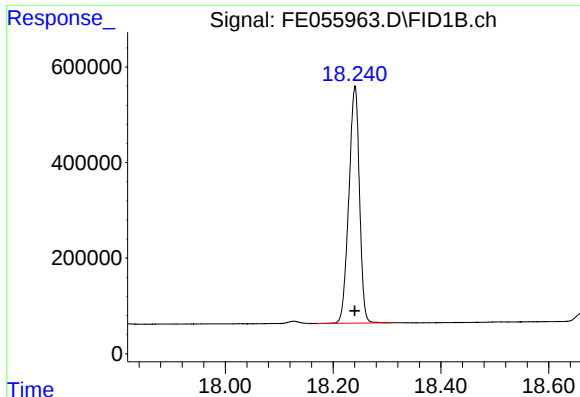
#15 n-Hexacosane (C26)

R.T.: 16.397 min
Delta R.T.: 0.000 min
Response: 6822136
Conc: 50.14 ug/ml



#16 n-Octacosane (C28)

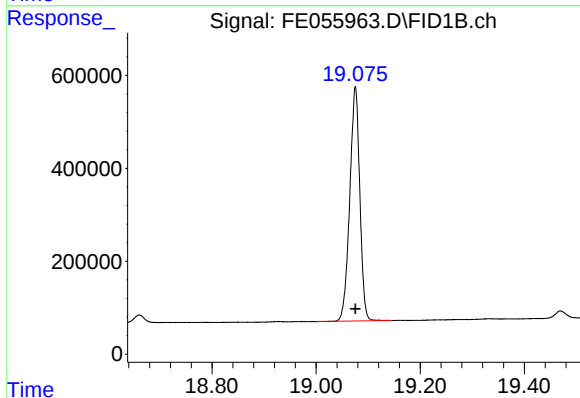
R.T.: 17.350 min
Delta R.T.: 0.000 min
Response: 6587657
Conc: 50.25 ug/ml



#17 n-Tricontane (C30)

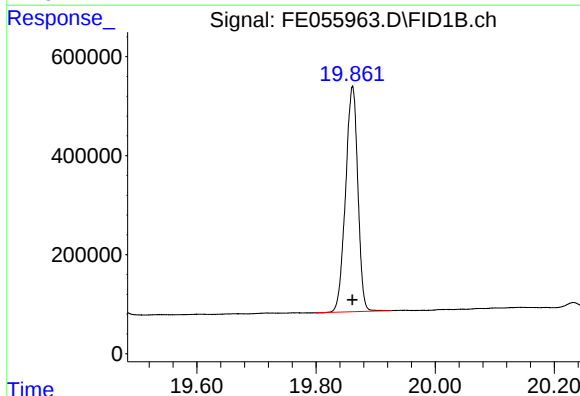
R.T.: 18.240 min
Delta R.T.: 0.000 min
Response: 6773890
Conc: 49.92 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



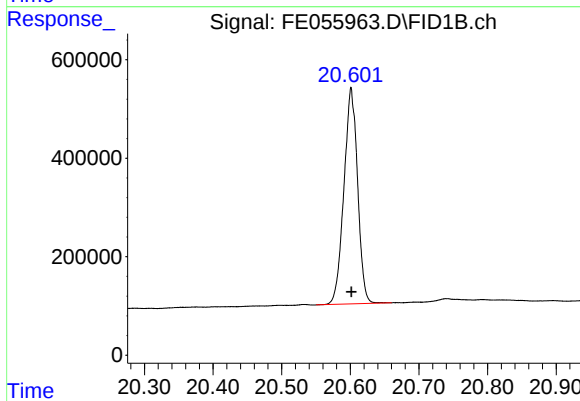
#18 n-Dotriacontane (C32)

R.T.: 19.075 min
Delta R.T.: 0.000 min
Response: 6740087
Conc: 49.58 ug/ml



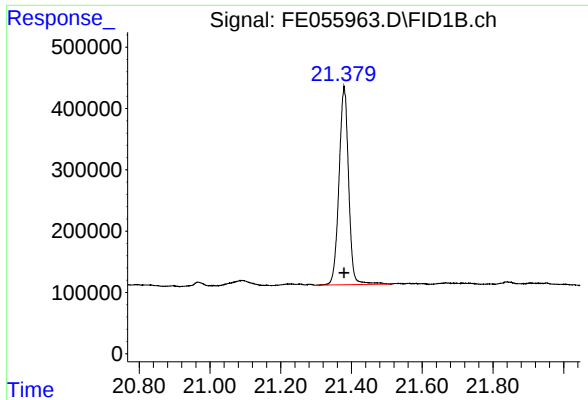
#19 n-Tetratriacontane (C34)

R.T.: 19.861 min
Delta R.T.: 0.000 min
Response: 6516174
Conc: 49.73 ug/ml



#20 n-Hexatriacontane (C36)

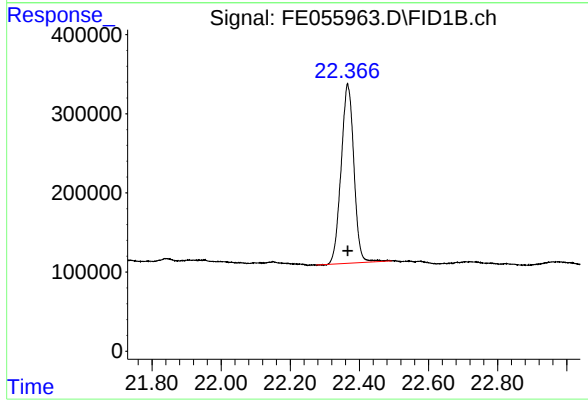
R.T.: 20.601 min
Delta R.T.: 0.000 min
Response: 6074929
Conc: 50.04 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.379 min
Delta R.T.: 0.000 min
Response: 6099413
Conc: 51.83 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.366 min
Delta R.T.: 0.000 min
Response: 5796100
Conc: 51.55 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.414	3.370	3.475	BB	776378	7521327	82.60%	4.637%
2	4.671	4.633	4.737	BB	783988	7621160	83.69%	4.699%
3	6.390	6.350	6.492	BB	881625	8539649	93.78%	5.265%
4	6.847	6.810	6.907	BB	774294	7750210	85.11%	4.778%
5	7.492	7.443	7.587	BB	820251	8232099	90.40%	5.076%
6	8.683	8.648	8.755	BB	764717	7796895	85.62%	4.807%
7	10.299	10.262	10.360	BB	758326	8184868	89.88%	5.046%
8	11.750	11.707	11.807	BB	753100	8429200	92.57%	5.197%
9	12.077	12.037	12.135	BB	854162	9105995	100.00%	5.614%
10	13.064	13.022	13.120	BB	711166	8067243	88.59%	4.974%
11	13.512	13.472	13.573	BB	561964	6779455	74.45%	4.180%
12	13.679	13.613	13.738	BB	653612	7830269	85.99%	4.828%
13	14.267	14.227	14.337	BB	630007	7654502	84.06%	4.719%
14	15.374	15.287	15.442	BB	570219	7266695	79.80%	4.480%
15	16.397	16.335	16.465	BB	514565	6822136	74.92%	4.206%
16	17.350	17.262	17.415	BB	493737	6587657	72.34%	4.062%
17	18.240	18.168	18.308	BB	493734	6773890	74.39%	4.177%
18	19.075	19.000	19.145	BB	505191	6740087	74.02%	4.156%
19	19.861	19.800	19.927	BB	456961	6516174	71.56%	4.018%
20	20.601	20.550	20.660	BB	437030	6074929	66.71%	3.746%
21	21.379	21.300	21.513	BV	323069	6099413	66.98%	3.761%
22	22.366	22.275	22.493	BB	226612	5796100	63.65%	3.574%

Sum of corrected areas: 162189953

Aliphatic EPH 092425.M Wed Sep 24 15:36:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055964.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 10:07
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Sep 24 11:01:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 11:00:43 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)	12.072	3567994	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.509	2647245	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.411	2766852	20.000 ug/ml
2) T n-Decane (C10)	4.669	2814312	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.388	3171326	20.000 ug/ml
4) T n-Dodecane (C12)	6.844	2881508	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.489	3059763	20.000 ug/ml
6) T n-Tetradecane (C14)	8.681	2927514	20.000 ug/ml
7) T n-Hexadecane (C16)	10.296	3109210	20.000 ug/ml
8) T n-Octadecane (C18)	11.746	3251555	20.000 ug/ml
10) T n-Eicosane (C20)	13.061	3151785	20.000 ug/ml
11) T n-Heneicosane (C21)	13.675	3077000	20.000 ug/ml
13) T n-Docosane (C22)	14.264	3018934	20.000 ug/ml
14) T n-Tetracosane (C24)	15.369	2880999	20.000 ug/ml
15) T n-Hexacosane (C26)	16.394	2712524	20.000 ug/ml
16) T n-Octacosane (C28)	17.346	2656180	20.000 ug/ml
17) T n-Tricontane (C30)	18.236	2820975	20.000 ug/ml
18) T n-Dotriacontane (C32)	19.071	2869454	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.856	2735529	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.598	2490383	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.374	2320773	20.000 ug/ml
22) T n-Tetracontane (C40)	22.360	2272256	20.000 ug/ml

(f)=RT Delta > 1/2 Window

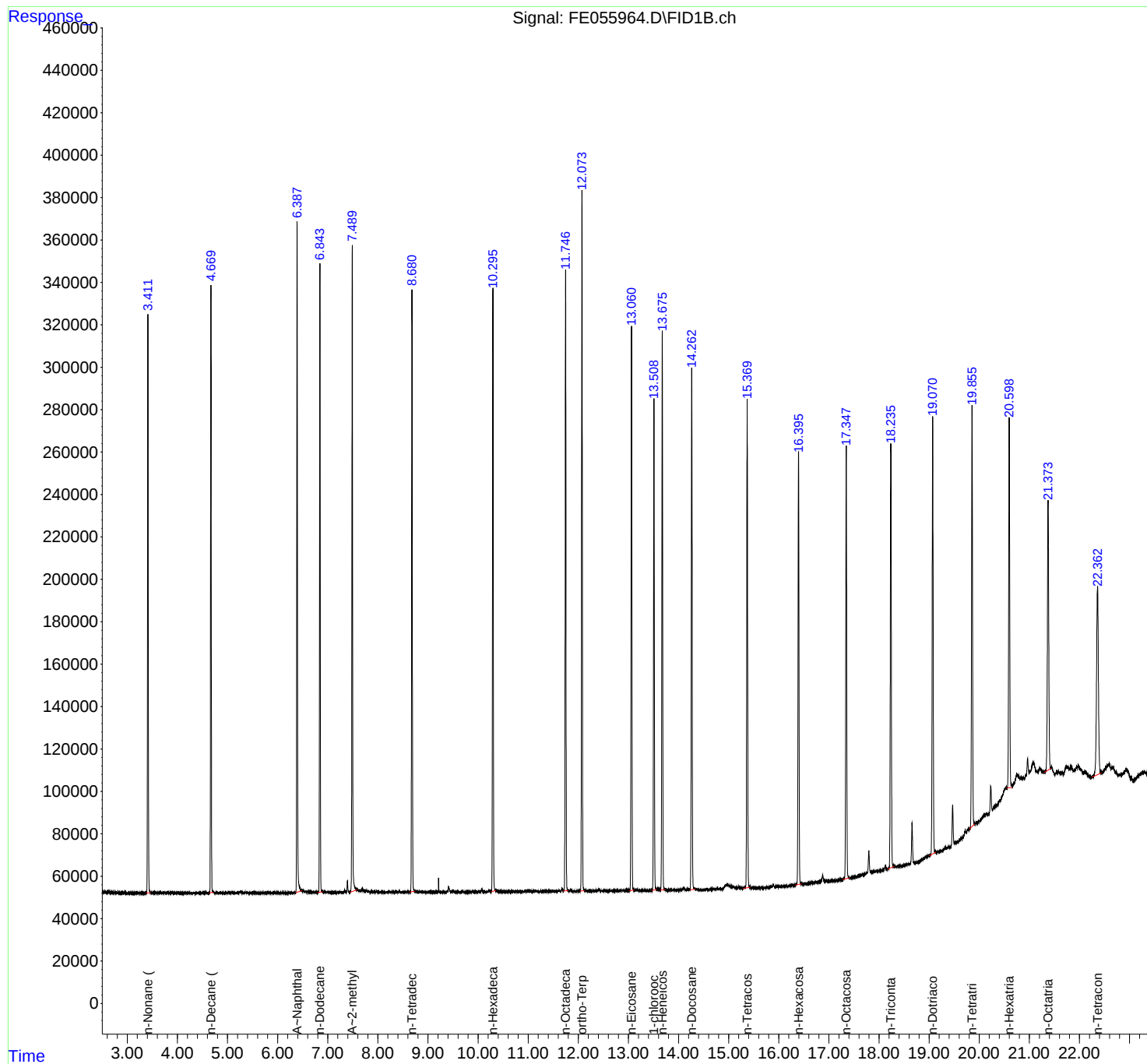
(m)=manual int.

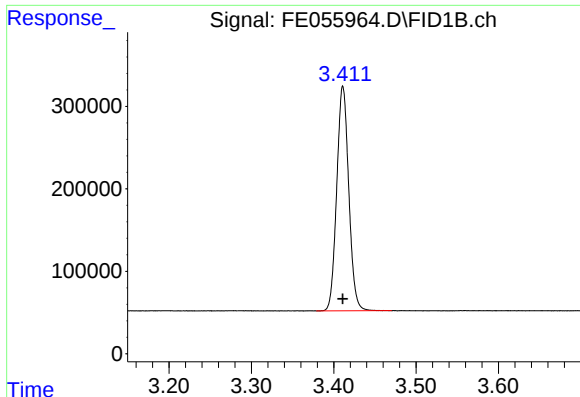
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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On    : 24 Sep 2025  10:07
Operator  : YP\AJ
Sample    : 20 PPM ALIPHATIC HC STD3
Misc      :
ALS Vial  : 13   Sample Multiplier: 1
```

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 11:01:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

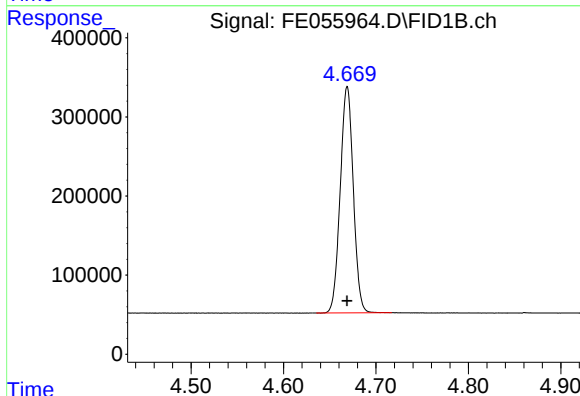




#1 n-Nonane (C9)

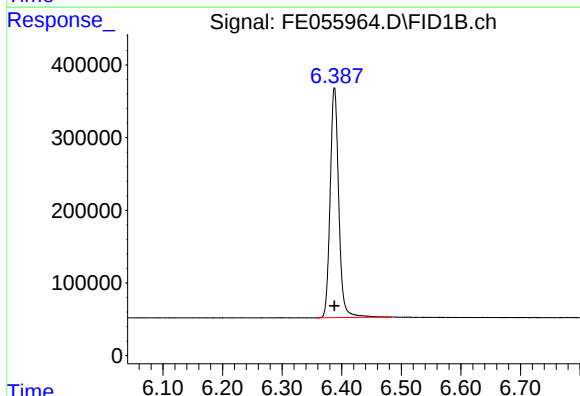
R.T.: 3.411 min
Delta R.T.: 0.000 min
Response: 2766852
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



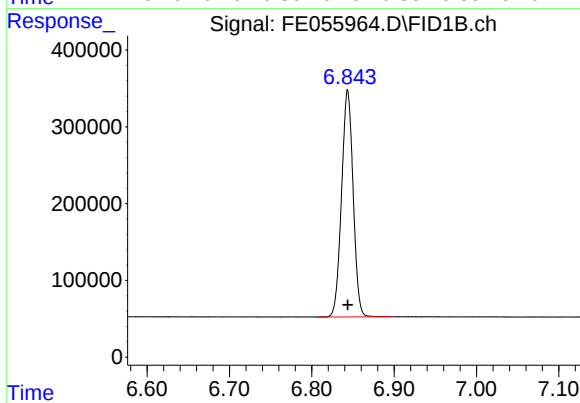
#2 n-Decane (C10)

R.T.: 4.669 min
Delta R.T.: 0.000 min
Response: 2814312
Conc: 20.00 ug/ml



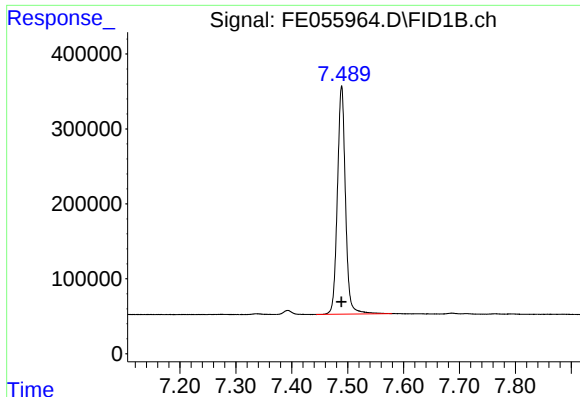
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 3171326
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

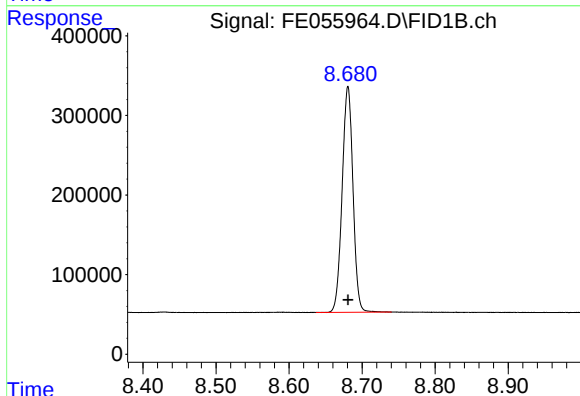
R.T.: 6.844 min
Delta R.T.: 0.000 min
Response: 2881508
Conc: 20.00 ug/ml



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

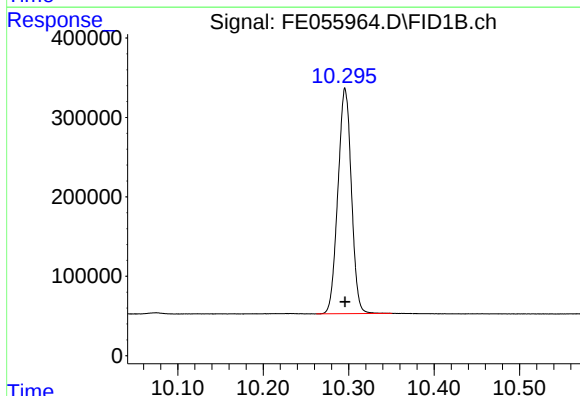
R.T.: 7.489 min
Delta R.T.: 0.000 min
Response: 3059763
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



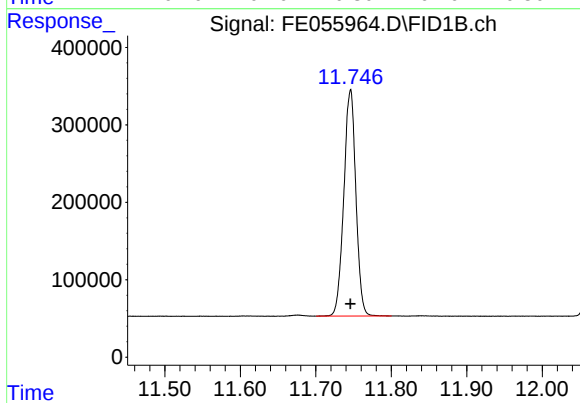
#6 n-Tetradecane (C14)

R.T.: 8.681 min
Delta R.T.: 0.000 min
Response: 2927514
Conc: 20.00 ug/ml



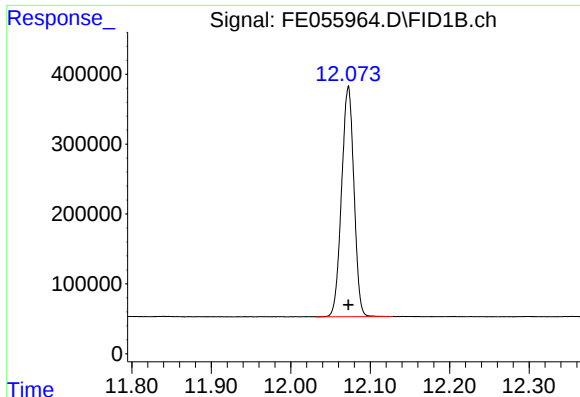
#7 n-Hexadecane (C16)

R.T.: 10.296 min
Delta R.T.: 0.000 min
Response: 3109210
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

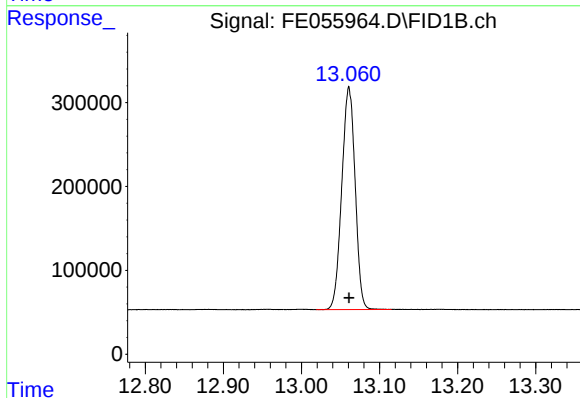
R.T.: 11.746 min
Delta R.T.: 0.000 min
Response: 3251555
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

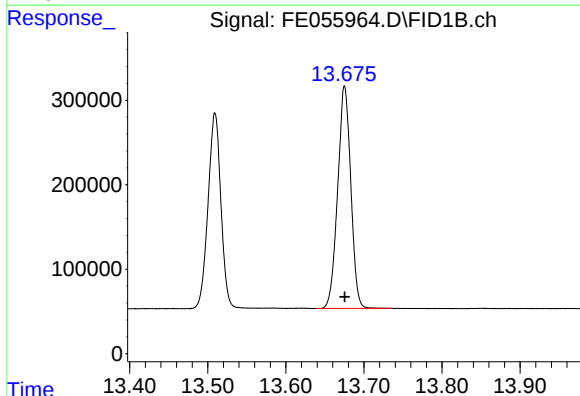
R.T.: 12.072 min
Delta R.T.: 0.000 min
Response: 3567994
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



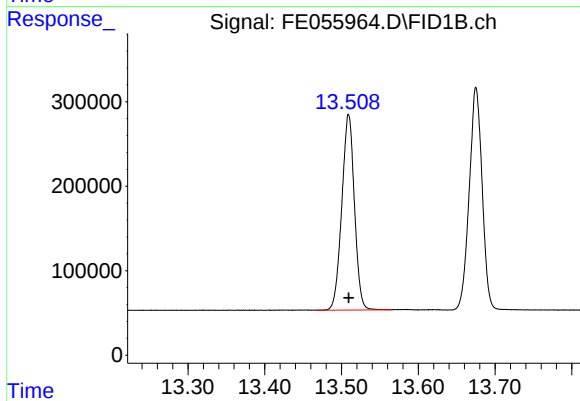
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.000 min
Response: 3151785
Conc: 20.00 ug/ml



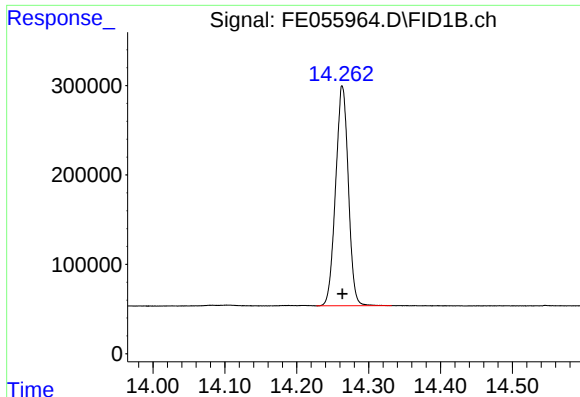
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.000 min
Response: 3077000
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

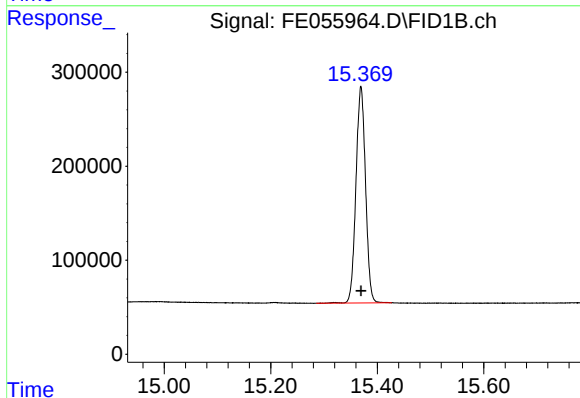
R.T.: 13.509 min
Delta R.T.: 0.000 min
Response: 2647245
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

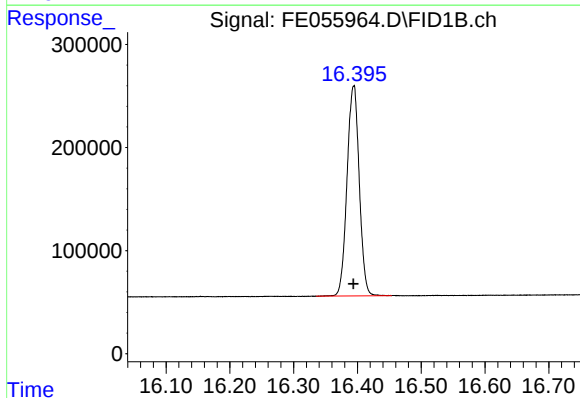
R.T.: 14.264 min
Delta R.T.: 0.000 min
Response: 3018934
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



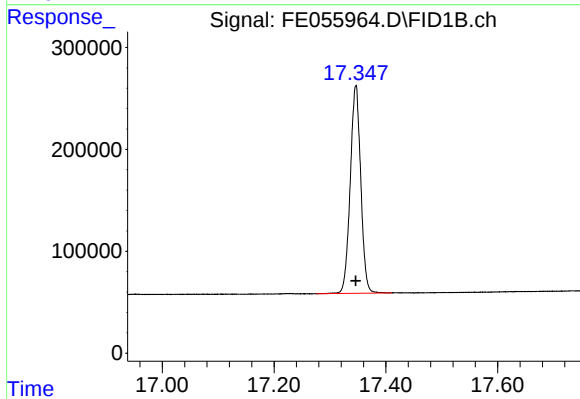
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2880999
Conc: 20.00 ug/ml



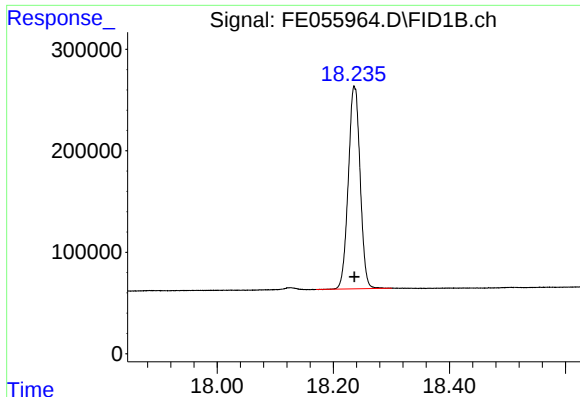
#15 n-Hexacosane (C26)

R.T.: 16.394 min
Delta R.T.: 0.000 min
Response: 2712524
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

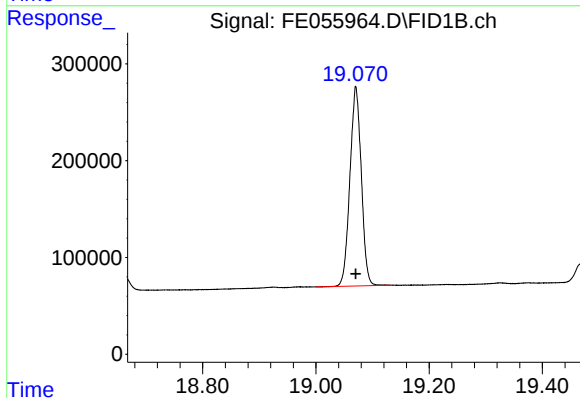
R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2656180
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

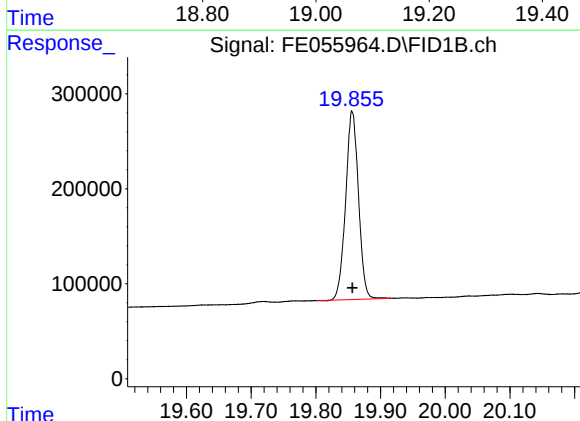
R.T.: 18.236 min
Delta R.T.: 0.000 min
Response: 2820975
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



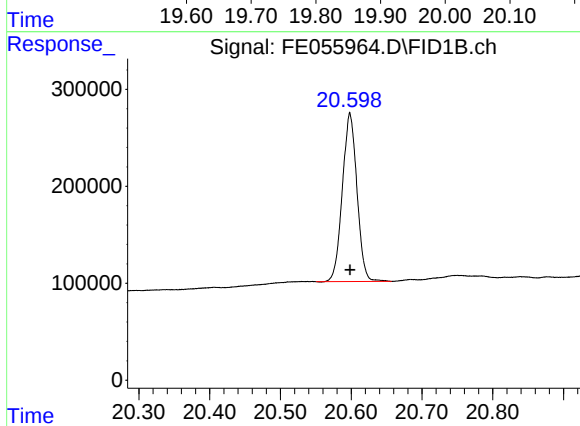
#18 n-Dotriacontane (C32)

R.T.: 19.071 min
Delta R.T.: 0.000 min
Response: 2869454
Conc: 20.00 ug/ml



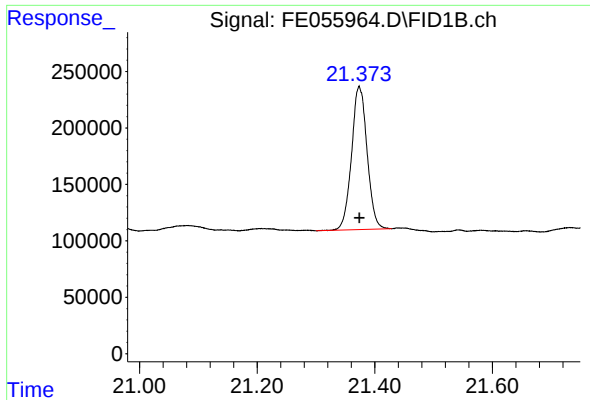
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 2735529
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

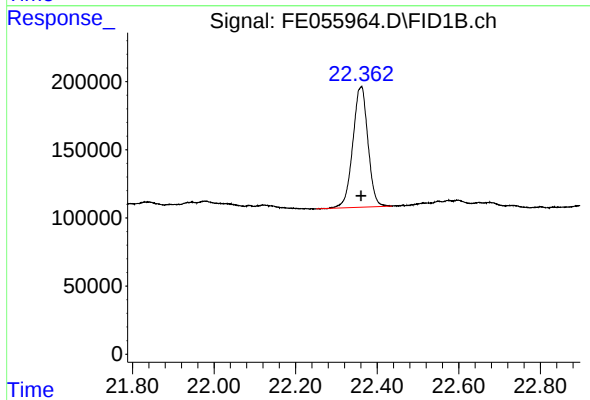
R.T.: 20.598 min
Delta R.T.: 0.000 min
Response: 2490383
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min
Delta R.T.: 0.000 min
Response: 2320773
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.360 min
Delta R.T.: 0.000 min
Response: 2272256
Conc: 20.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:07
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.379	3.470	BB	272925	2766852	77.55%	4.378%
2	4.669	4.635	4.717	BB	286203	2814312	78.88%	4.453%
3	6.388	6.357	6.484	BB	317204	3171326	88.88%	5.018%
4	6.844	6.805	6.897	BB	295559	2881508	80.76%	4.559%
5	7.489	7.444	7.579	BB	304084	3059763	85.76%	4.841%
6	8.681	8.637	8.740	BB	284130	2927514	82.05%	4.632%
7	10.296	10.262	10.350	BB	283977	3109210	87.14%	4.919%
8	11.746	11.700	11.800	BB	291244	3251555	91.13%	5.145%
9	12.072	12.032	12.127	BB	328303	3567994	100.00%	5.645%
10	13.061	13.019	13.115	BB	265259	3151785	88.33%	4.987%
11	13.509	13.467	13.565	BB	232459	2647245	74.19%	4.188%
12	13.675	13.639	13.735	BB	263085	3077000	86.24%	4.868%
13	14.264	14.227	14.332	BB	245238	3018934	84.61%	4.776%
14	15.369	15.285	15.427	BB	230996	2880999	80.75%	4.558%
15	16.394	16.335	16.454	BB	203871	2712524	76.02%	4.292%
16	17.346	17.275	17.410	BB	204223	2656180	74.44%	4.203%
17	18.236	18.170	18.300	BB	198304	2820975	79.06%	4.463%
18	19.071	19.000	19.134	BB	206283	2869454	80.42%	4.540%
19	19.856	19.800	19.917	BB	197030	2735529	76.67%	4.328%
20	20.598	20.550	20.657	BV	173259	2490383	69.80%	3.940%
21	21.374	21.300	21.429	BV	126907	2320773	65.04%	3.672%
22	22.360	22.250	22.435	BB	88187	2272256	63.68%	3.595%
Sum of corrected areas:							63204070	

Aliphatic EPH 092425.M Wed Sep 24 15:37:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055965.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 10:38
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Sep 24 12:53:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:53:03 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)	12.070	1954951	10.632 ug/ml
Spiked Amount 50.000		Recovery =	21.26%
12) S 1-chlorooctadecane (S...	13.507	1449608	10.566 ug/ml
Spiked Amount 50.000		Recovery =	21.13%
Target Compounds			
1) T n-Nonane (C9)	3.408	1363863	9.986 ug/ml
2) T n-Decane (C10)	4.667	1391033	9.997 ug/ml
3) T A~Naphthalene (C11.7)	6.387	1598546	9.989 ug/ml
4) T n-Dodecane (C12)	6.843	1436113	10.031 ug/ml
5) T A~2-methylnaphthalene...	7.488	1559116	9.998 ug/ml
6) T n-Tetradecane (C14)	8.680	1496128	10.183 ug/ml
7) T n-Hexadecane (C16)	10.294	1620157	10.289 ug/ml
8) T n-Octadecane (C18)	11.744	1759004	10.560 ug/ml
10) T n-Eicosane (C20)	13.059	1725698	10.625 ug/ml
11) T n-Heneicosane (C21)	13.674	1692180	10.652 ug/ml
13) T n-Docosane (C22)	14.262	1664317	10.666 ug/ml
14) T n-Tetracosane (C24)	15.369	1581785	10.651 ug/ml
15) T n-Hexacosane (C26)	16.393	1487319	10.683 ug/ml
16) T n-Octacosane (C28)	17.345	1455613	10.805 ug/ml
17) T n-Tricontane (C30)	18.235	1558692	11.075 ug/ml
18) T n-Dotriacontane (C32)	19.070	1561208	11.073 ug/ml
19) T n-Tetratriacontane (C34)	19.856	1478766	10.935 ug/ml
20) T n-Hexatriacontane (C36)	20.597	1356484	10.855 ug/ml
21) T n-Octatriacontane (C38)	21.372	1544566	12.174 ug/ml
22) T n-Tetracontane (C40)	22.359	1260670	10.882 ug/ml

(f)=RT Delta > 1/2 Window

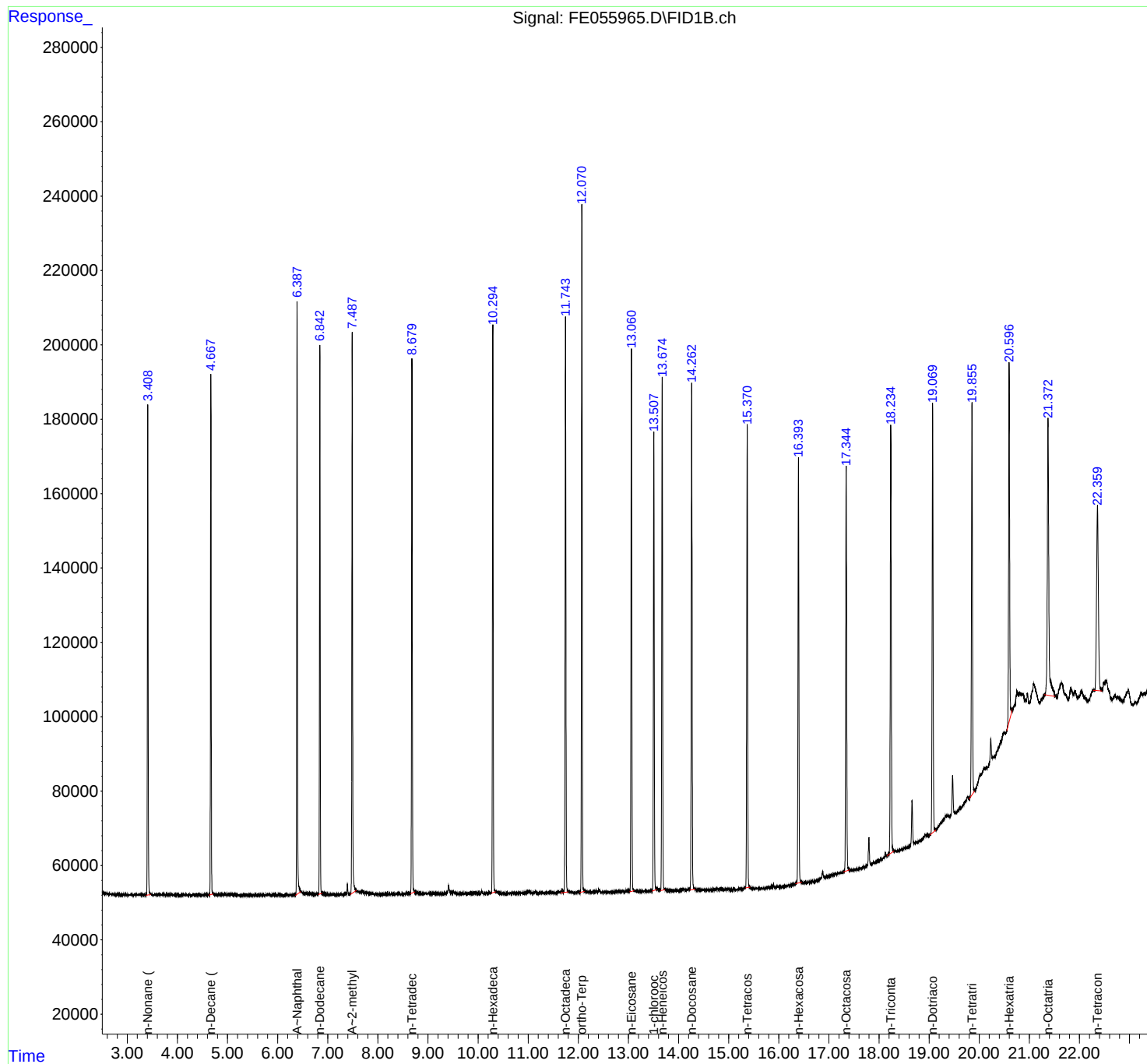
(m)=manual int.

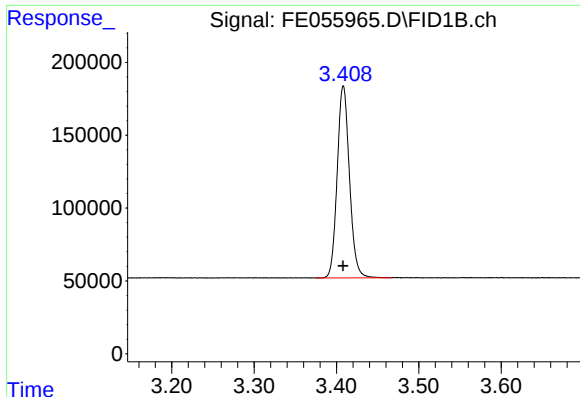
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055965.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:38
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 12:53:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:53:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

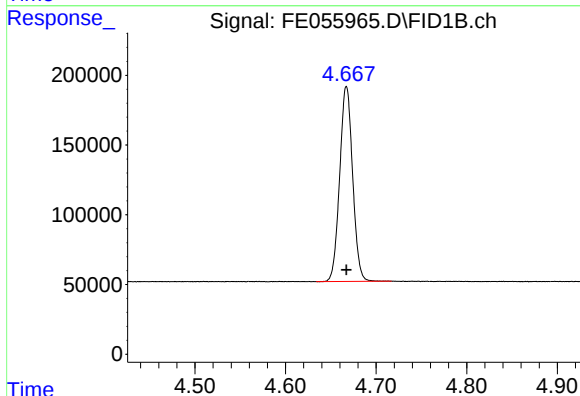




#1 n-Nonane (C9)

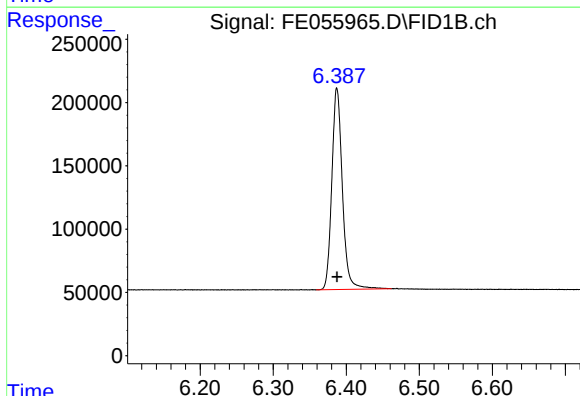
R.T.: 3.408 min
Delta R.T.: 0.000 min
Response: 1363863
Conc: 9.99 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



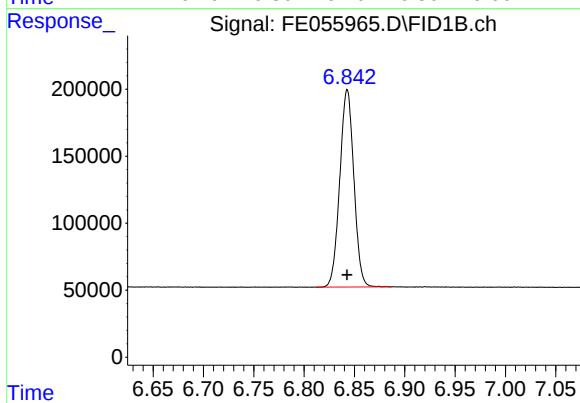
#2 n-Decane (C10)

R.T.: 4.667 min
Delta R.T.: 0.000 min
Response: 1391033
Conc: 10.00 ug/ml



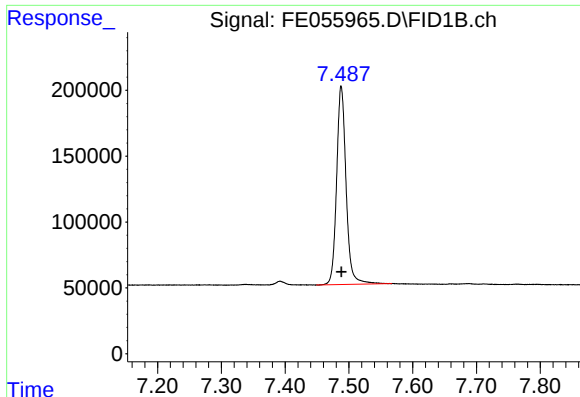
#3 A~Naphthalene (C11.7)

R.T.: 6.387 min
Delta R.T.: 0.000 min
Response: 1598546
Conc: 9.99 ug/ml



#4 n-Dodecane (C12)

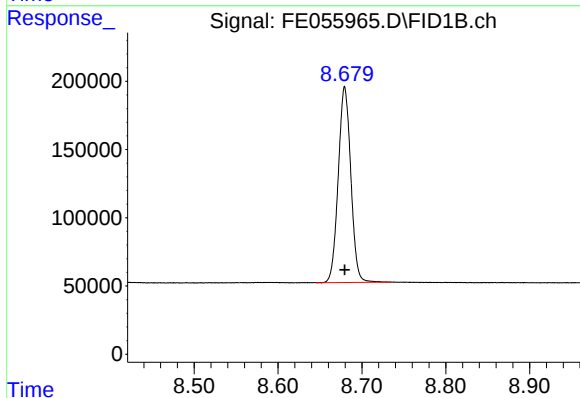
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 1436113
Conc: 10.03 ug/ml



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

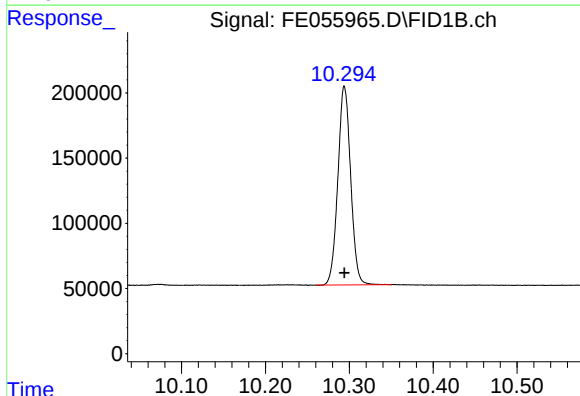
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 1559116
Conc: 10.00 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



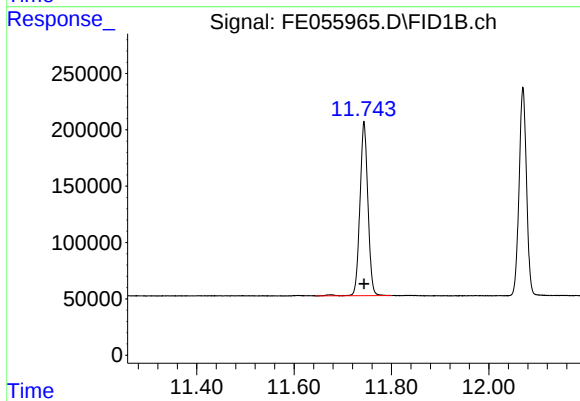
#6 n-Tetradecane (C14)

R.T.: 8.680 min
Delta R.T.: 0.000 min
Response: 1496128
Conc: 10.18 ug/ml



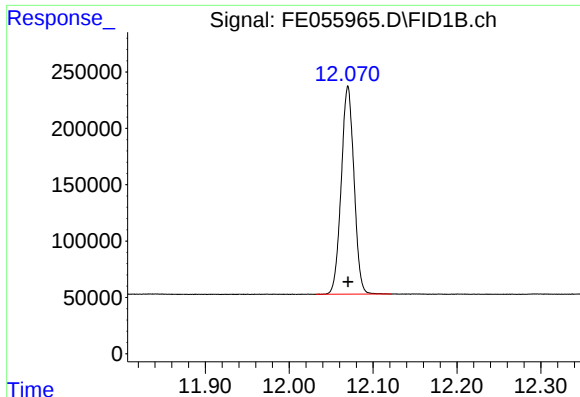
#7 n-Hexadecane (C16)

R.T.: 10.294 min
Delta R.T.: 0.000 min
Response: 1620157
Conc: 10.29 ug/ml



#8 n-Octadecane (C18)

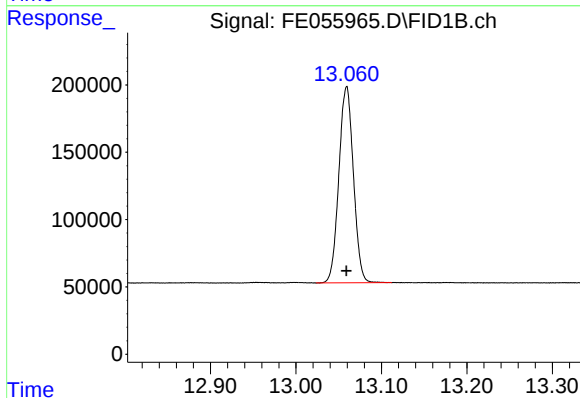
R.T.: 11.744 min
Delta R.T.: 0.000 min
Response: 1759004
Conc: 10.56 ug/ml



#9 ortho-Terphenyl (SURR)

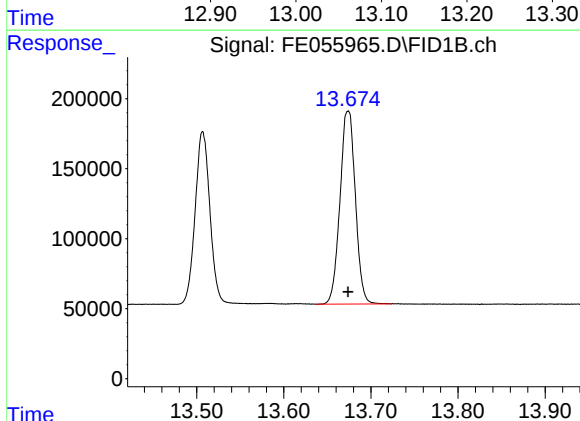
R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 1954951
Conc: 10.63 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



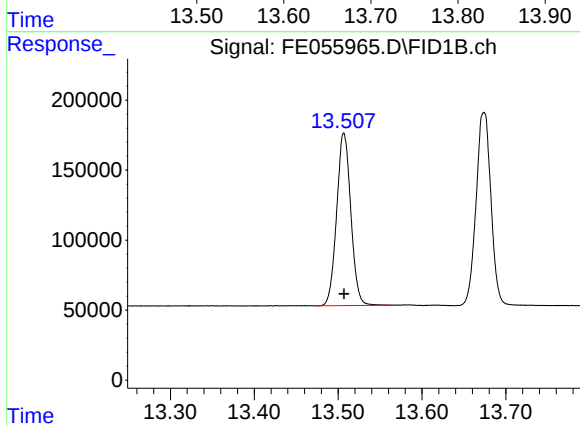
#10 n-Eicosane (C20)

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 1725698
Conc: 10.62 ug/ml



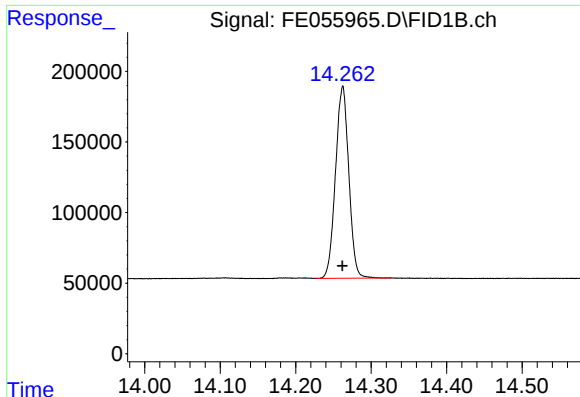
#11 n-Heneicosane (C21)

R.T.: 13.674 min
Delta R.T.: 0.000 min
Response: 1692180
Conc: 10.65 ug/ml



#12 1-chlorooctadecane (SURR)

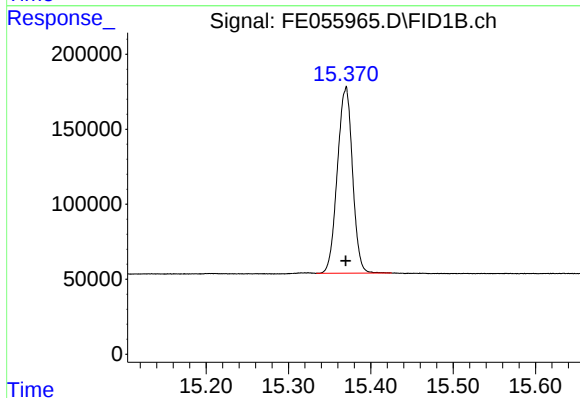
R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 1449608
Conc: 10.57 ug/ml



#13 n-Docosane (C22)

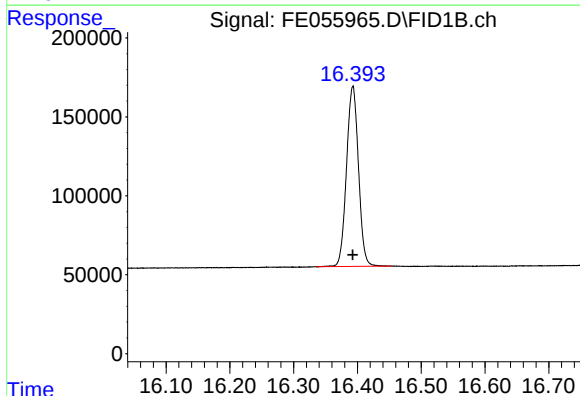
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 1664317
Conc: 10.67 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



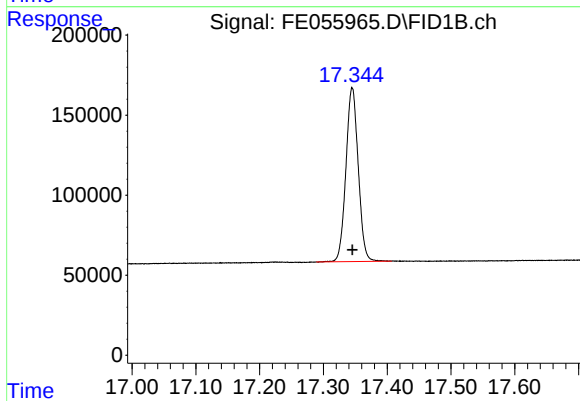
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 1581785
Conc: 10.65 ug/ml



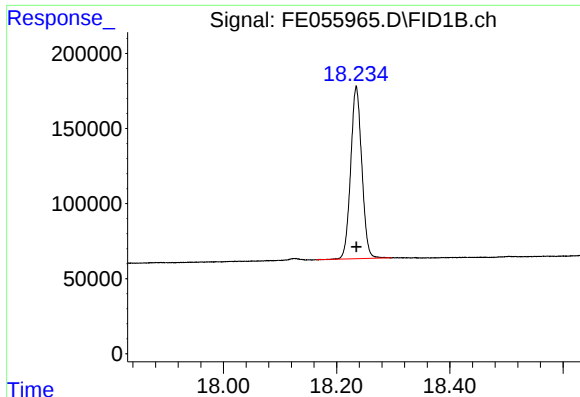
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 1487319
Conc: 10.68 ug/ml



#16 n-Octacosane (C28)

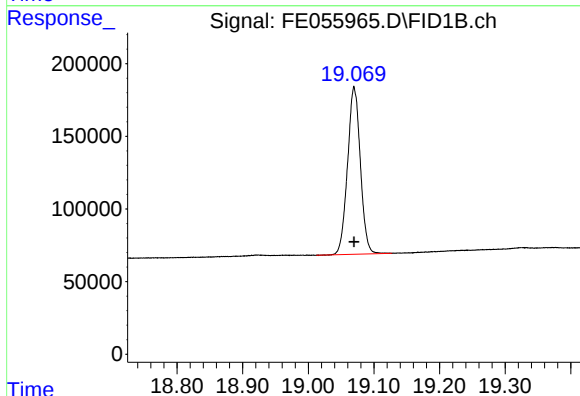
R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 1455613
Conc: 10.80 ug/ml



#17 n-Tricontane (C30)

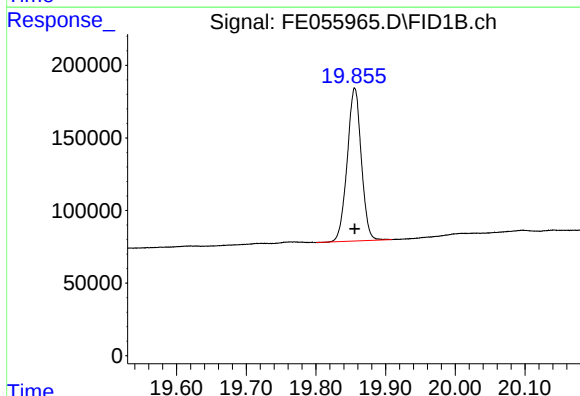
R.T.: 18.235 min
Delta R.T.: 0.000 min
Response: 1558692
Conc: 11.08 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



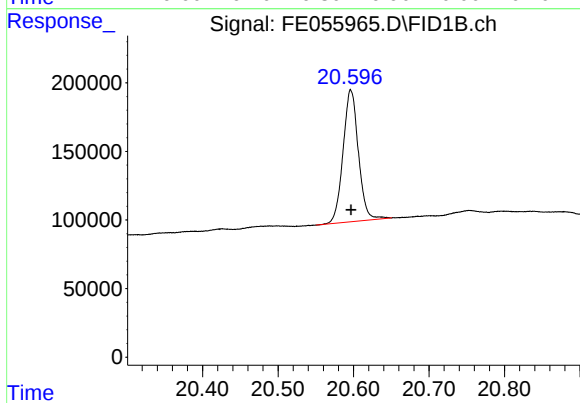
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 1561208
Conc: 11.07 ug/ml



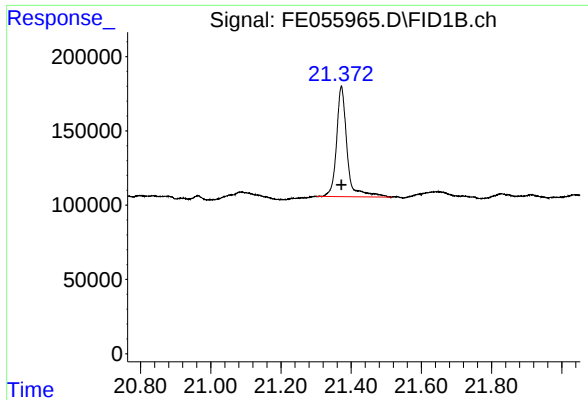
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 1478766
Conc: 10.93 ug/ml



#20 n-Hexatriacontane (C36)

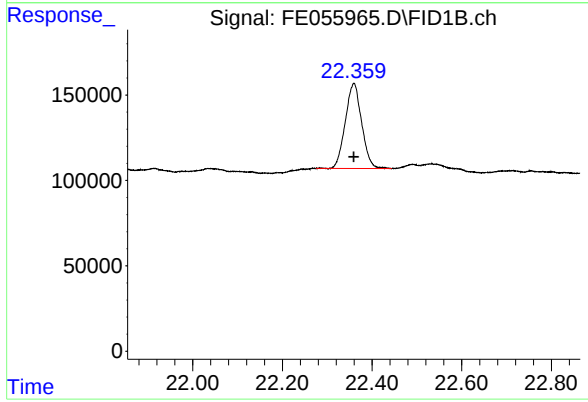
R.T.: 20.597 min
Delta R.T.: 0.000 min
Response: 1356484
Conc: 10.85 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min
Delta R.T.: 0.000 min
Response: 1544566
Conc: 12.17 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.359 min
Delta R.T.: 0.000 min
Response: 1260670
Conc: 10.88 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055965.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:38
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.408	3.375	3.467	BB	131891	1363863	69.76%	4.012%
2	4.667	4.634	4.717	BB	140046	1391033	71.15%	4.092%
3	6.387	6.359	6.462	BB	159227	1598546	81.77%	4.702%
4	6.843	6.812	6.887	BB	147153	1436113	73.46%	4.224%
5	7.488	7.449	7.567	BB	149955	1559116	79.75%	4.586%
6	8.680	8.645	8.735	BB	142760	1496128	76.53%	4.401%
7	10.294	10.260	10.350	BB	152463	1620157	82.87%	4.766%
8	11.744	11.645	11.800	BB	154452	1759004	89.98%	5.174%
9	12.070	12.032	12.122	BB	185078	1954951	100.00%	5.751%
10	13.059	13.024	13.112	BB	145649	1725698	88.27%	5.076%
11	13.507	13.474	13.564	BB	123157	1449608	74.15%	4.264%
12	13.674	13.637	13.724	BB	137839	1692180	86.56%	4.978%
13	14.262	14.227	14.327	BB	136020	1664317	85.13%	4.896%
14	15.369	15.334	15.425	BB	122593	1581785	80.91%	4.653%
15	16.393	16.335	16.454	BB	114164	1487319	76.08%	4.375%
16	17.345	17.289	17.407	BB	108605	1455613	74.46%	4.282%
17	18.235	18.164	18.297	BB	114916	1558692	79.73%	4.585%
18	19.070	19.012	19.127	BB	114664	1561208	79.86%	4.592%
19	19.856	19.800	19.909	BB	105560	1478766	75.64%	4.350%
20	20.597	20.550	20.650	BB	95575	1356484	69.39%	3.990%
21	21.372	21.300	21.515	BB	74470	1544566	79.01%	4.543%
22	22.359	22.275	22.444	BB	49805	1260670	64.49%	3.708%
Sum of corrected areas:							33995817	

Aliphatic EPH 092425.M Wed Sep 24 15:37:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055966.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 11:08
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Sep 24 12:55:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:54:57 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)	12.070	1013713	5.402 ug/ml
Spiked Amount 50.000		Recovery =	10.80%
12) S 1-chlorooctadecane (S...	13.507	745262	5.340 ug/ml
Spiked Amount 50.000		Recovery =	10.68%
Target Compounds			
1) T n-Nonane (C9)	3.408	693246	5.060 ug/ml
2) T n-Decane (C10)	4.667	706292	5.061 ug/ml
3) T A~Naphthalene (C11.7)	6.388	790843	4.953 ug/ml
4) T n-Dodecane (C12)	6.843	724977	5.051 ug/ml
5) T A~2-methylnaphthalene...	7.489	768994	4.945 ug/ml
6) T n-Tetradecane (C14)	8.679	757520	5.124 ug/ml
7) T n-Hexadecane (C16)	10.294	823386	5.182 ug/ml
8) T n-Octadecane (C18)	11.744	903131	5.332 ug/ml
10) T n-Eicosane (C20)	13.059	895641	5.403 ug/ml
11) T n-Heneicosane (C21)	13.673	885060	5.447 ug/ml
13) T n-Docosane (C22)	14.262	874093	5.470 ug/ml
14) T n-Tetracosane (C24)	15.369	839256	5.508 ug/ml
15) T n-Hexacosane (C26)	16.393	781387	5.478 ug/ml
16) T n-Octacosane (C28)	17.345	788239	5.658 ug/ml
17) T n-Tricontane (C30)	18.235	889830	6.005 ug/ml
18) T n-Dotriacontane (C32)	19.070	910224	6.101 ug/ml
19) T n-Tetratriacontane (C34)	19.855	831525	5.879 ug/ml
20) T n-Hexatriacontane (C36)	20.596	709931	5.530 ug/ml
21) T n-Octatriacontane (C38)	21.372	745994	5.680 ug/ml
22) T n-Tetracontane (C40)	22.356	657258	5.525 ug/ml

(f)=RT Delta > 1/2 Window

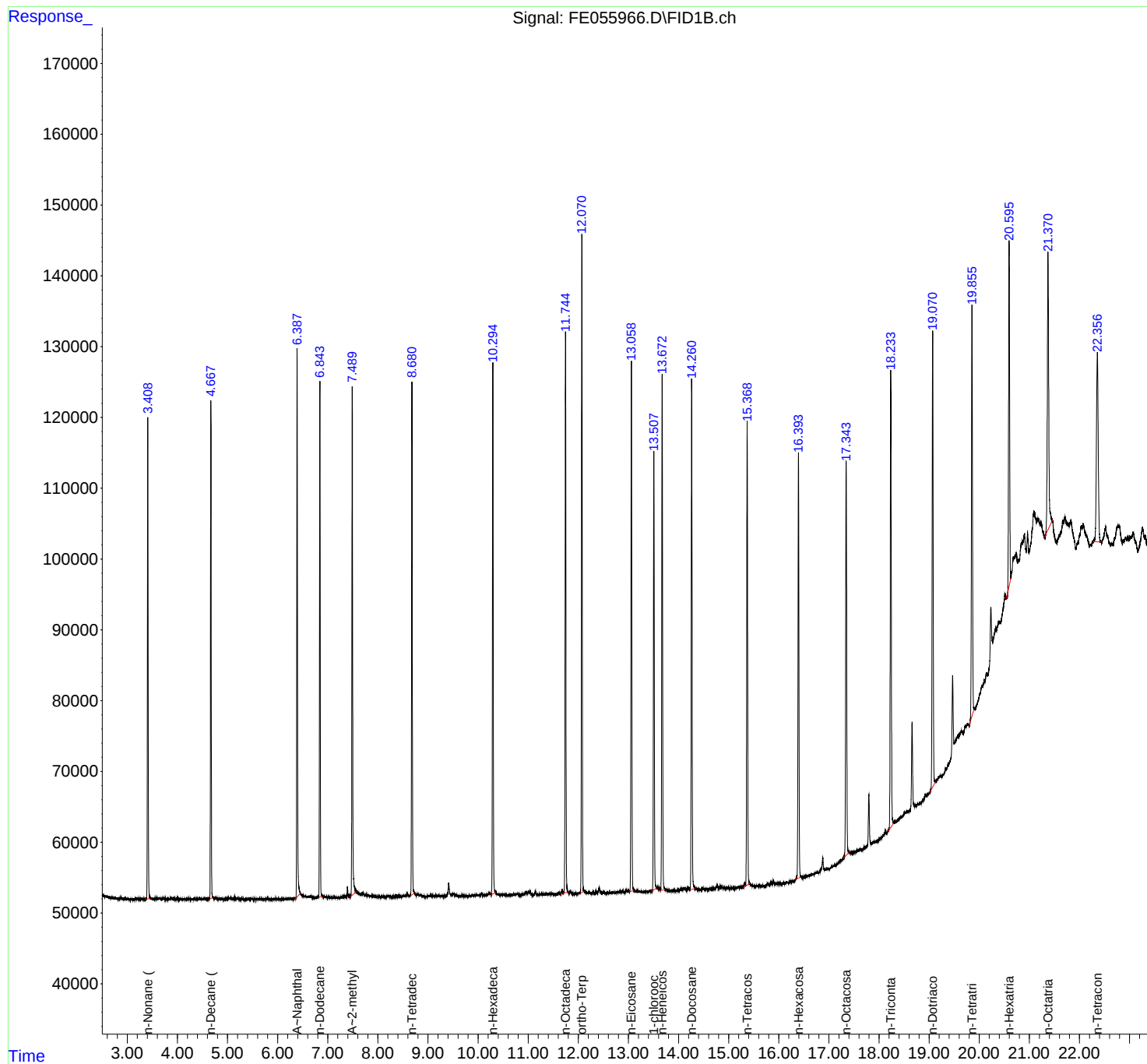
(m)=manual int.

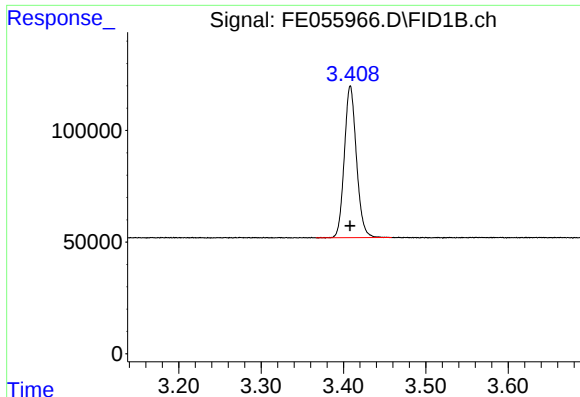
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055966.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:08
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 12:55:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:54:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

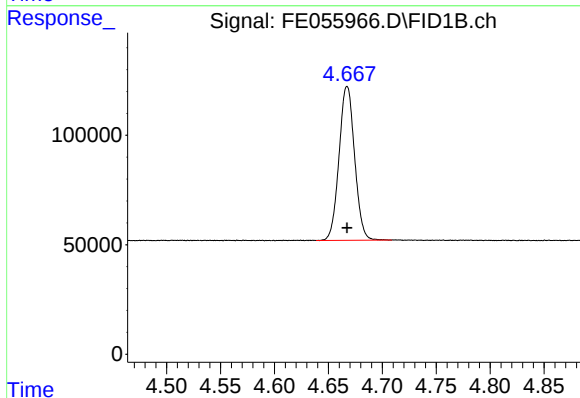




#1 n-Nonane (C9)

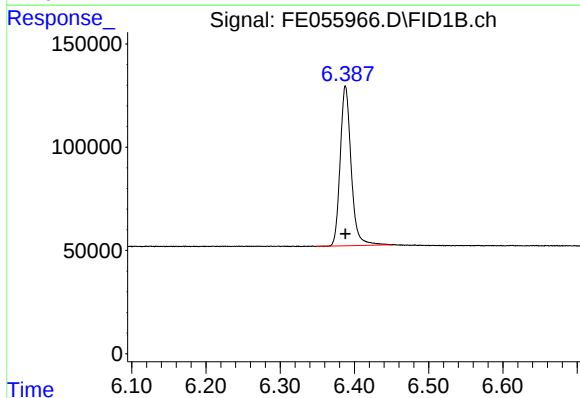
R.T.: 3.408 min
Delta R.T.: 0.000 min
Response: 693246
Conc: 5.06 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



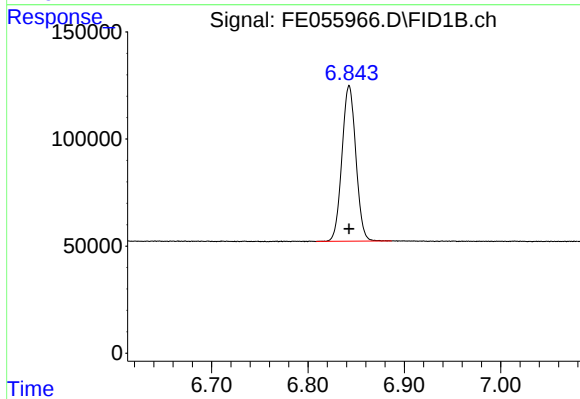
#2 n-Decane (C10)

R.T.: 4.667 min
Delta R.T.: 0.000 min
Response: 706292
Conc: 5.06 ug/ml



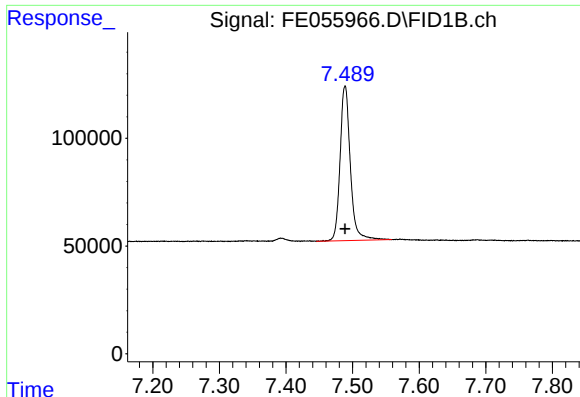
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 790843
Conc: 4.95 ug/ml



#4 n-Dodecane (C12)

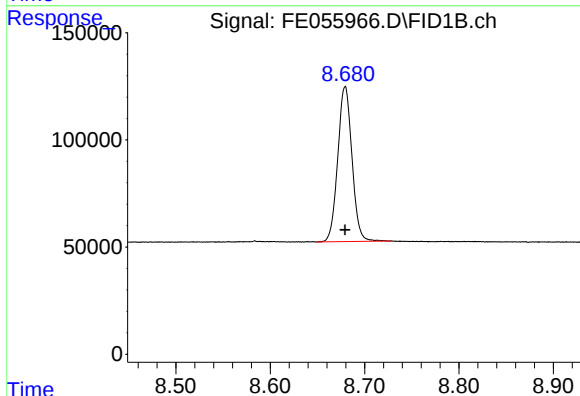
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 724977
Conc: 5.05 ug/ml



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

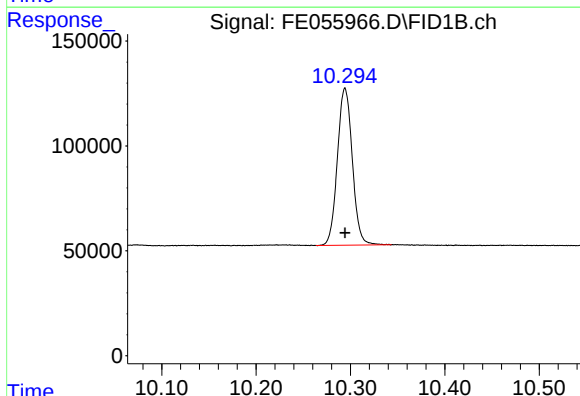
R.T.: 7.489 min
Delta R.T.: 0.000 min
Response: 768994
Conc: 4.94 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



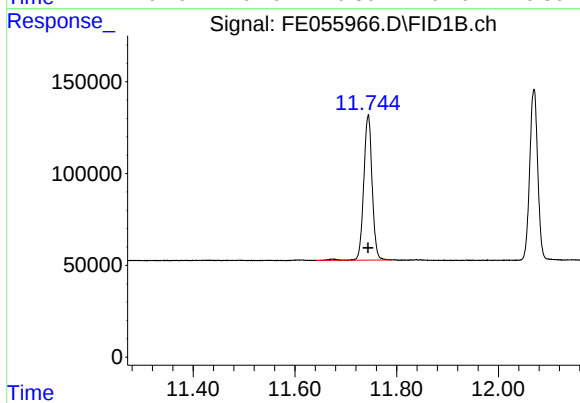
#6 n-Tetradecane (C14)

R.T.: 8.679 min
Delta R.T.: 0.000 min
Response: 757520
Conc: 5.12 ug/ml



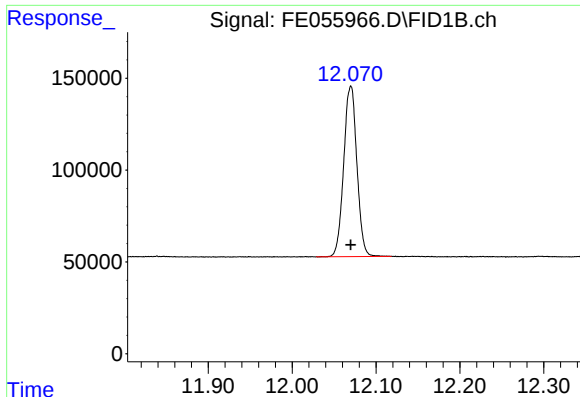
#7 n-Hexadecane (C16)

R.T.: 10.294 min
Delta R.T.: 0.000 min
Response: 823386
Conc: 5.18 ug/ml



#8 n-Octadecane (C18)

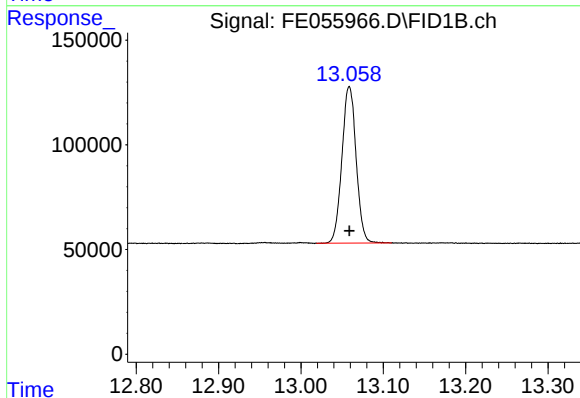
R.T.: 11.744 min
Delta R.T.: 0.000 min
Response: 903131
Conc: 5.33 ug/ml



#9 ortho-Terphenyl (SURR)

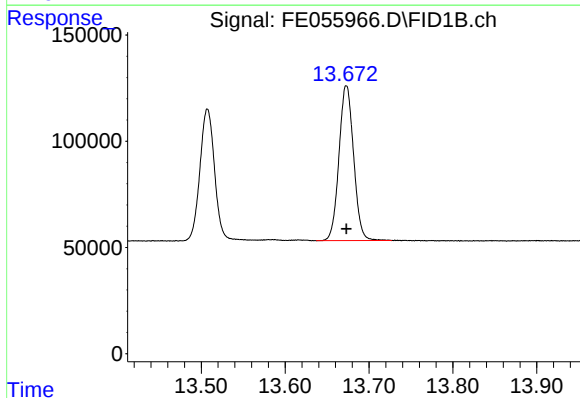
R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 1013713
Conc: 5.40 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



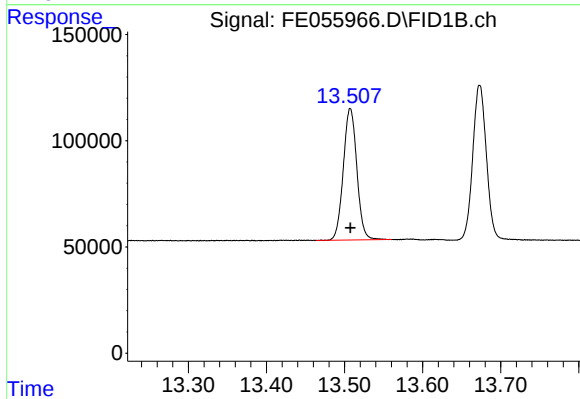
#10 n-Eicosane (C20)

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 895641
Conc: 5.40 ug/ml



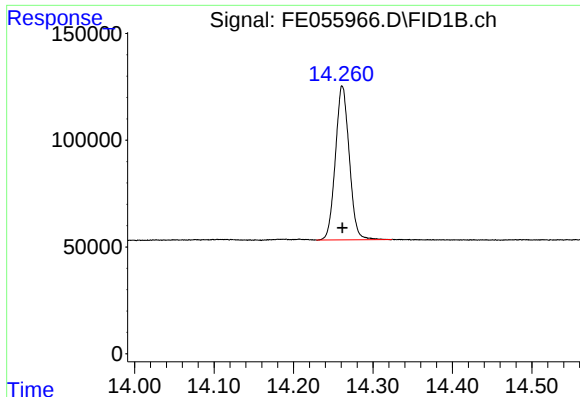
#11 n-Heneicosane (C21)

R.T.: 13.673 min
Delta R.T.: 0.000 min
Response: 885060
Conc: 5.45 ug/ml



#12 1-chlorooctadecane (SURR)

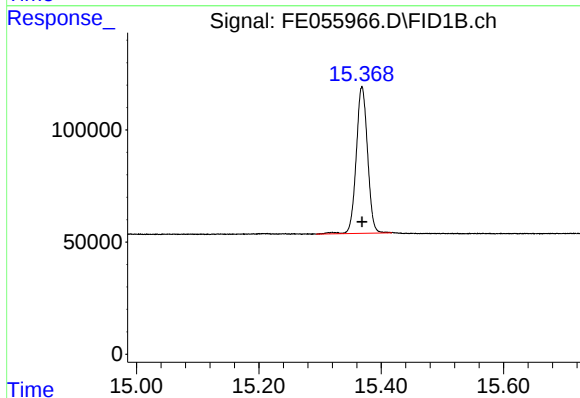
R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 745262
Conc: 5.34 ug/ml



#13 n-Docosane (C22)

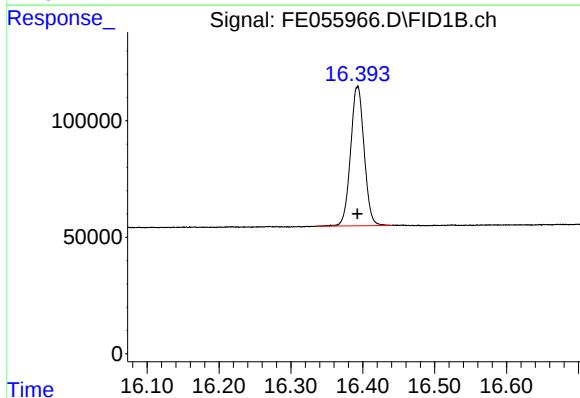
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 874093
Conc: 5.47 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



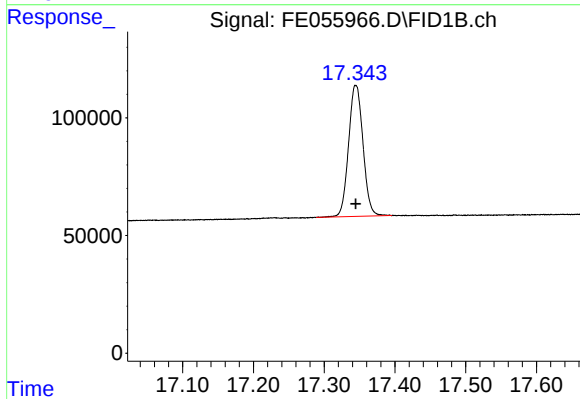
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 839256
Conc: 5.51 ug/ml



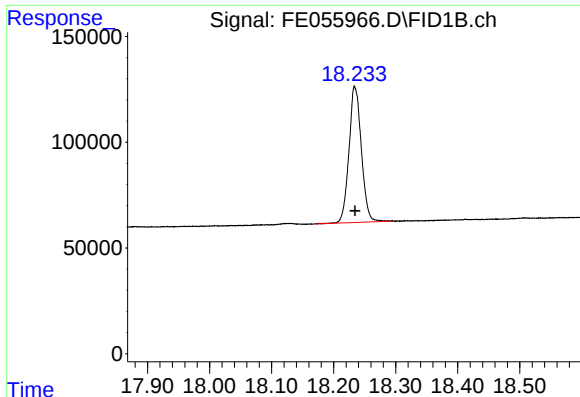
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 781387
Conc: 5.48 ug/ml



#16 n-Octacosane (C28)

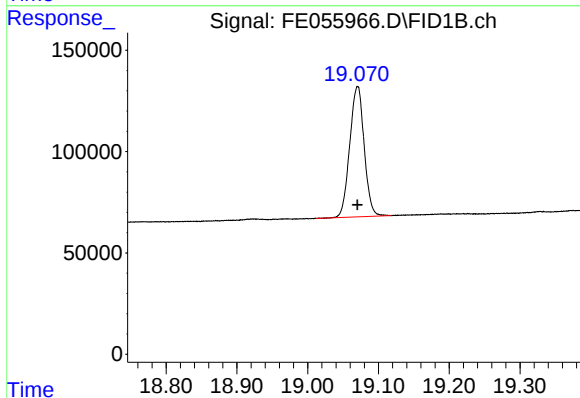
R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 788239
Conc: 5.66 ug/ml



#17 n-Tricontane (C30)

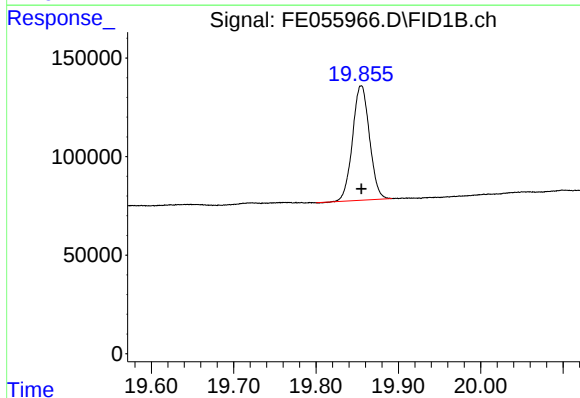
R.T.: 18.235 min
Delta R.T.: 0.000 min
Response: 889830
Conc: 6.01 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



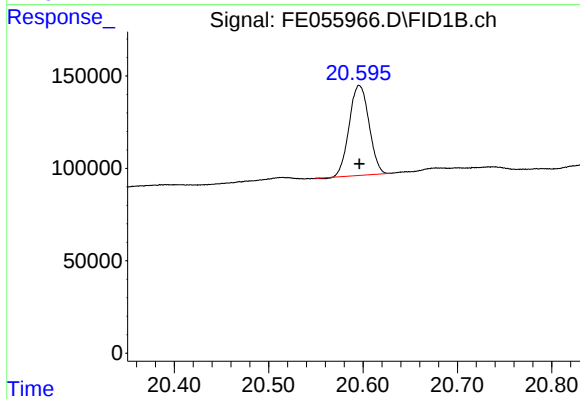
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 910224
Conc: 6.10 ug/ml



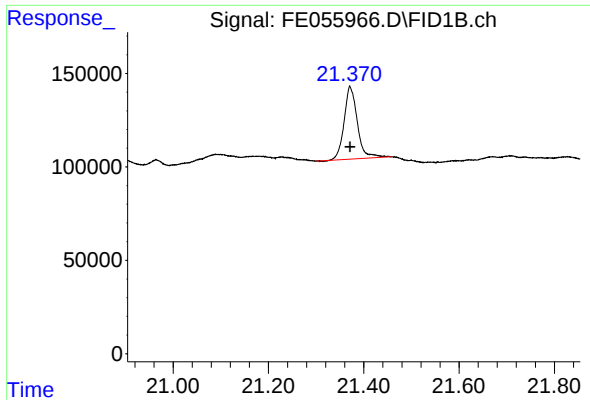
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 831525
Conc: 5.88 ug/ml



#20 n-Hexatriacontane (C36)

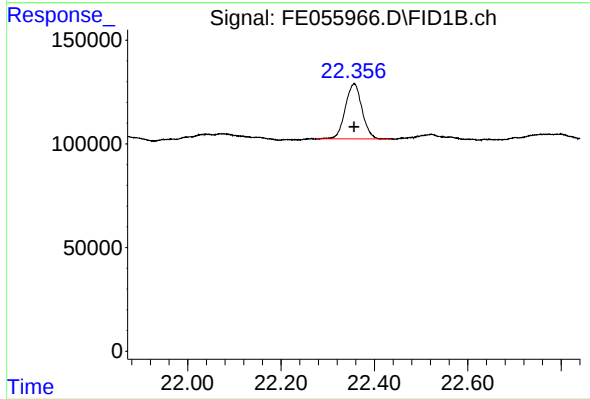
R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 709931
Conc: 5.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min
Delta R.T.: 0.000 min
Response: 745994
Conc: 5.68 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 657258
Conc: 5.52 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055966.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:08
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.408	3.367	3.459	BB	67953	693246	68.39%	3.909%
2	4.667	4.639	4.709	BB	70375	706292	69.67%	3.982%
3	6.388	6.349	6.450	BB	77149	790843	78.01%	4.459%
4	6.843	6.809	6.887	BB	72831	724977	71.52%	4.088%
5	7.489	7.445	7.559	BB	71709	768994	75.86%	4.336%
6	8.679	8.649	8.729	BB	72794	757520	74.73%	4.271%
7	10.294	10.264	10.344	BB	74847	823386	81.22%	4.643%
8	11.744	11.642	11.790	BB	78656	903131	89.09%	5.092%
9	12.070	12.029	12.119	BB	93200	1013713	100.00%	5.716%
10	13.059	13.019	13.110	BB	74727	895641	88.35%	5.050%
11	13.507	13.464	13.560	BB	62028	745262	73.52%	4.202%
12	13.673	13.637	13.727	BB	72909	885060	87.31%	4.990%
13	14.262	14.229	14.324	BB	71830	874093	86.23%	4.928%
14	15.369	15.294	15.417	BB	65352	839256	82.79%	4.732%
15	16.393	16.335	16.440	BB	60152	781387	77.08%	4.406%
16	17.345	17.289	17.395	BB	55612	788239	77.76%	4.444%
17	18.235	18.172	18.294	BB	63264	889830	87.78%	5.017%
18	19.070	19.012	19.119	BB	64493	910224	89.79%	5.132%
19	19.855	19.800	19.892	BB	58084	831525	82.03%	4.688%
20	20.596	20.550	20.630	BV	48579	709931	70.03%	4.003%
21	21.372	21.300	21.459	BB	38611	745994	73.59%	4.206%
22	22.356	22.275	22.437	BB	26685	657258	64.84%	3.706%
Sum of corrected areas:						17735802		

Aliphatic EPH 092425.M Wed Sep 24 15:38:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055967.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 11:39
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Sep 24 12:56:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.071	3668282	19.548 ug/ml
Spiked Amount 50.000		Recovery =	39.10%
12) S 1-chlorooctadecane (S...	13.508	2728050	19.547 ug/ml
Spiked Amount 50.000		Recovery =	39.09%
Target Compounds			
1) T n-Nonane (C9)	3.411	2817872	20.570 ug/ml
2) T n-Decane (C10)	4.668	2859346	20.488 ug/ml
3) T A~Naphthalene (C11.7)	6.388	3249421	20.352 ug/ml
4) T n-Dodecane (C12)	6.843	2929821	20.413 ug/ml
5) T A~2-methylnaphthalene...	7.488	3143650	20.214 ug/ml
6) T n-Tetradecane (C14)	8.680	2980588	20.160 ug/ml
7) T n-Hexadecane (C16)	10.295	3166204	19.925 ug/ml
8) T n-Octadecane (C18)	11.745	3336057	19.695 ug/ml
10) T n-Eicosane (C20)	13.060	3245046	19.576 ug/ml
11) T n-Heneicosane (C21)	13.674	3169164	19.504 ug/ml
13) T n-Docosane (C22)	14.262	3099587	19.398 ug/ml
14) T n-Tetracosane (C24)	15.369	2928176	19.216 ug/ml
15) T n-Hexacosane (C26)	16.393	2744599	19.243 ug/ml
16) T n-Octacosane (C28)	17.346	2675215	19.204 ug/ml
17) T n-Tricontane (C30)	18.236	2835374	19.135 ug/ml
18) T n-Dotriacontane (C32)	19.070	2865562	19.206 ug/ml
19) T n-Tetratriacontane (C34)	19.855	2719117	19.223 ug/ml
20) T n-Hexatriacontane (C36)	20.597	2416072	18.821 ug/ml
21) T n-Octatriacontane (C38)	21.374	2366982	18.021 ug/ml
22) T n-Tetracontane (C40)	22.357	2042298	17.167 ug/ml

(f)=RT Delta > 1/2 Window

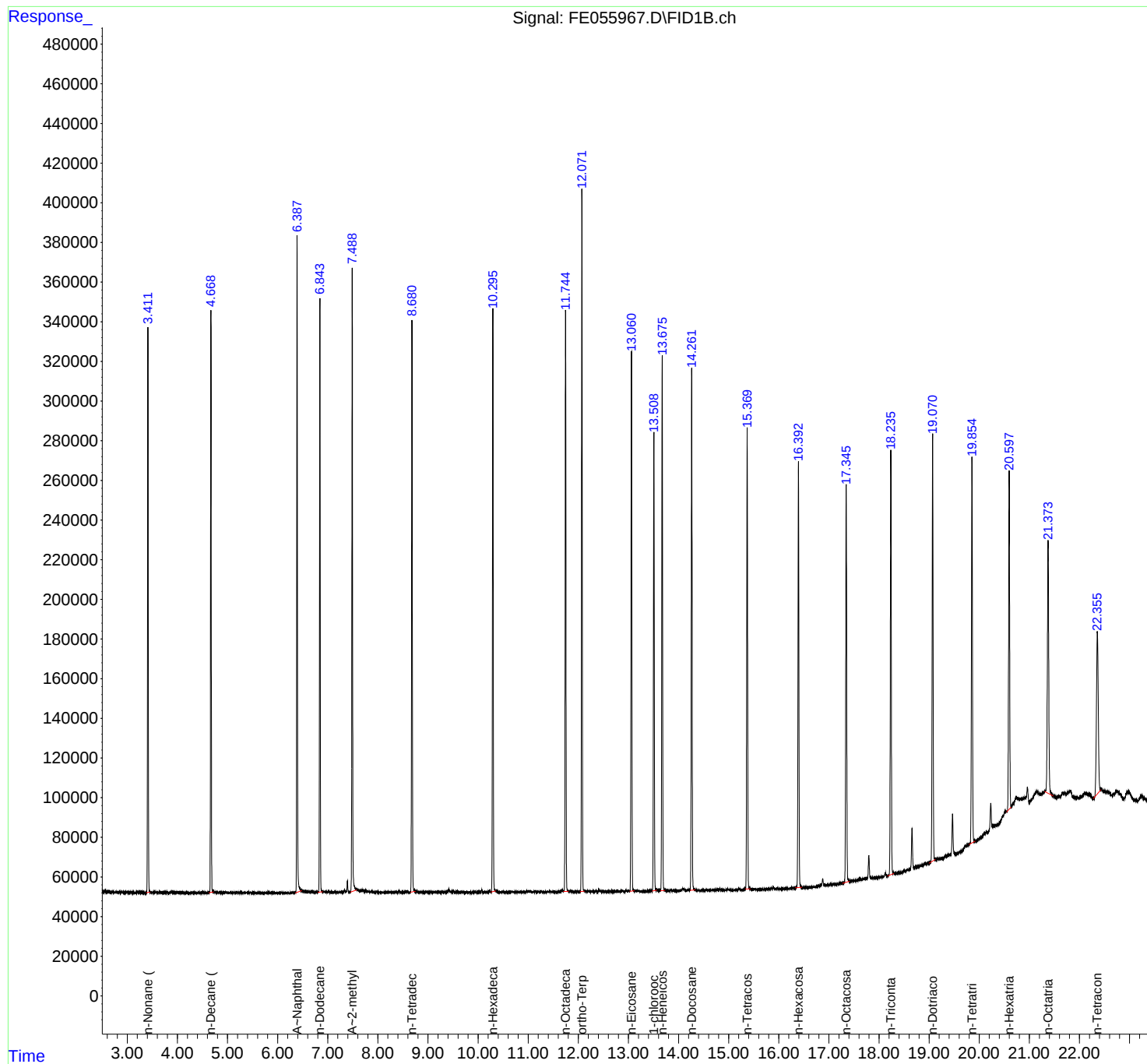
(m)=manual int.

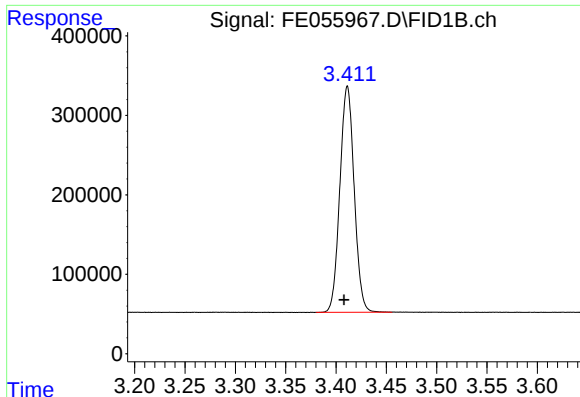
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055967.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:39
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 12:56:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

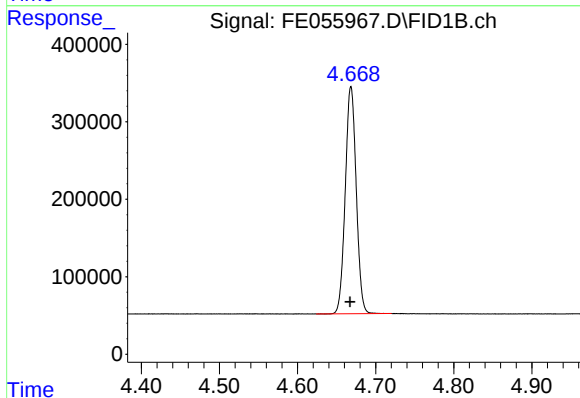




#1 n-Nonane (C9)

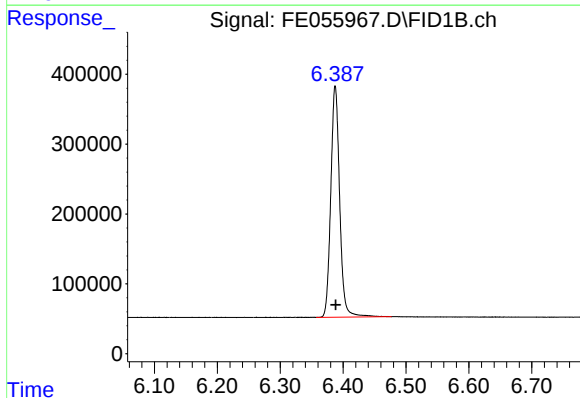
R.T.: 3.411 min
Delta R.T.: 0.003 min
Response: 2817872
Conc: 20.57 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



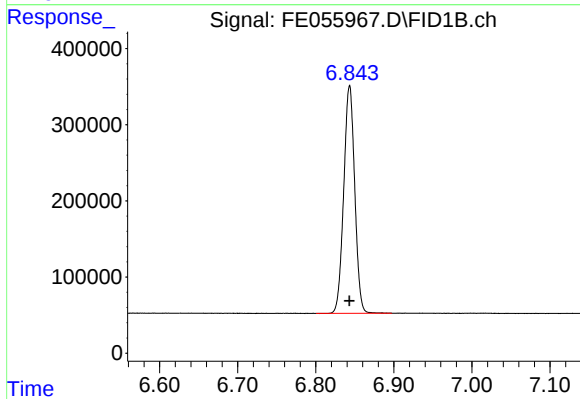
#2 n-Decane (C10)

R.T.: 4.668 min
Delta R.T.: 0.001 min
Response: 2859346
Conc: 20.49 ug/ml



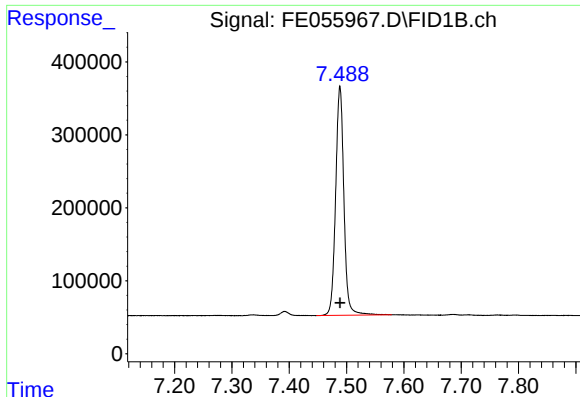
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 3249421
Conc: 20.35 ug/ml



#4 n-Dodecane (C12)

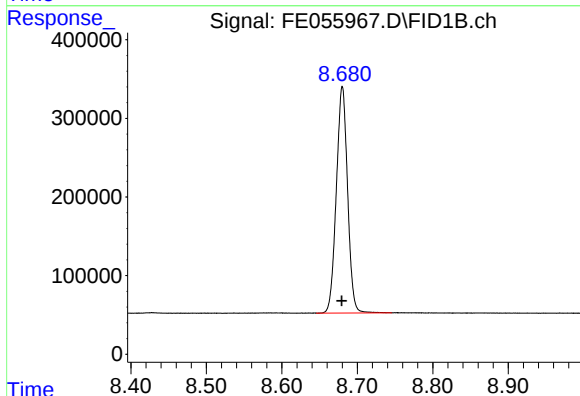
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 2929821
Conc: 20.41 ug/ml



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

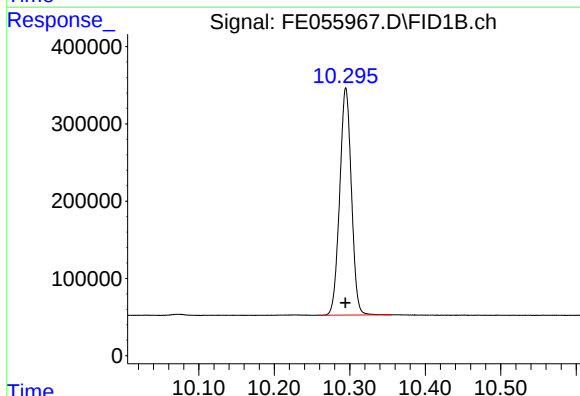
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 3143650
Conc: 20.21 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



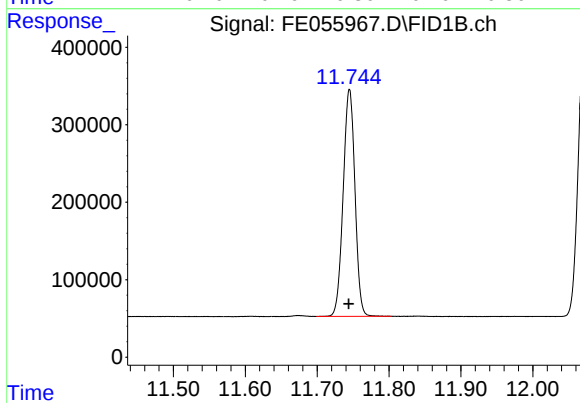
#6 n-Tetradecane (C14)

R.T.: 8.680 min
Delta R.T.: 0.000 min
Response: 2980588
Conc: 20.16 ug/ml



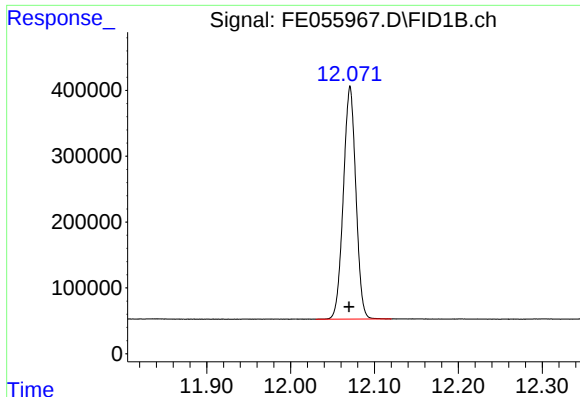
#7 n-Hexadecane (C16)

R.T.: 10.295 min
Delta R.T.: 0.000 min
Response: 3166204
Conc: 19.92 ug/ml



#8 n-Octadecane (C18)

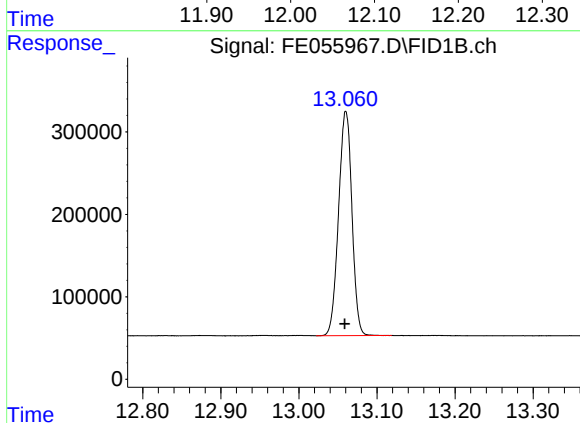
R.T.: 11.745 min
Delta R.T.: 0.000 min
Response: 3336057
Conc: 19.70 ug/ml



#9 ortho-Terphenyl (SURR)

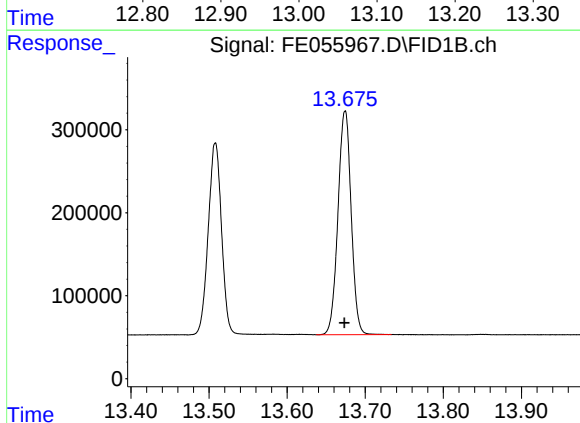
R.T.: 12.071 min
Delta R.T.: 0.001 min
Response: 3668282
Conc: 19.55 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



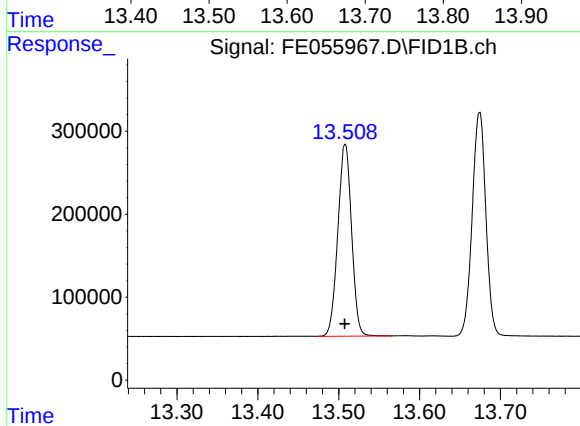
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.001 min
Response: 3245046
Conc: 19.58 ug/ml



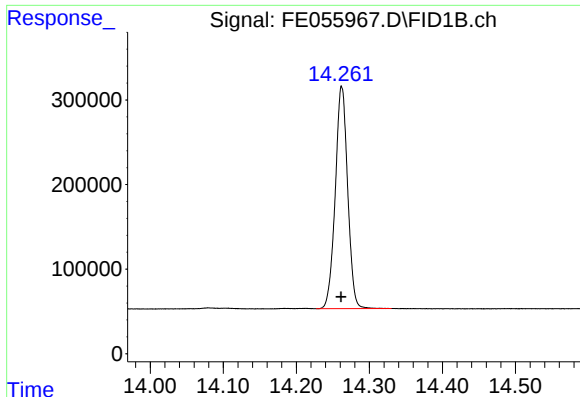
#11 n-Heneicosane (C21)

R.T.: 13.674 min
Delta R.T.: 0.000 min
Response: 3169164
Conc: 19.50 ug/ml



#12 1-chlorooctadecane (SURR)

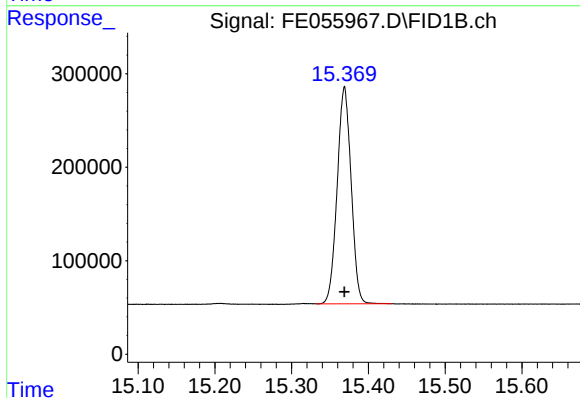
R.T.: 13.508 min
Delta R.T.: 0.000 min
Response: 2728050
Conc: 19.55 ug/ml



#13 n-Docosane (C22)

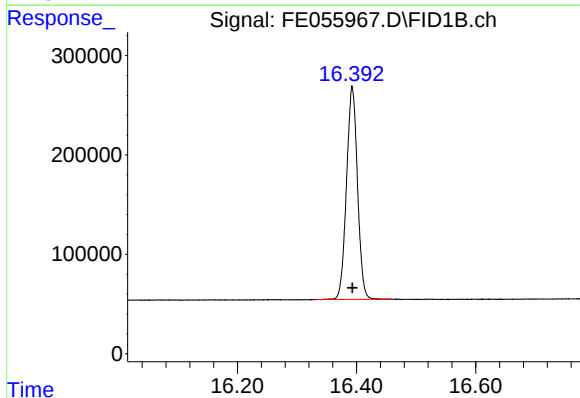
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 3099587
Conc: 19.40 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



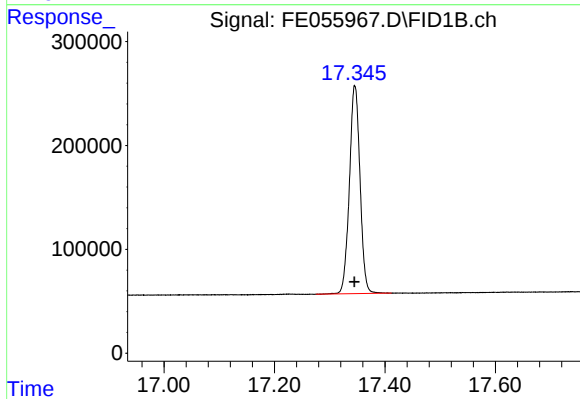
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2928176
Conc: 19.22 ug/ml



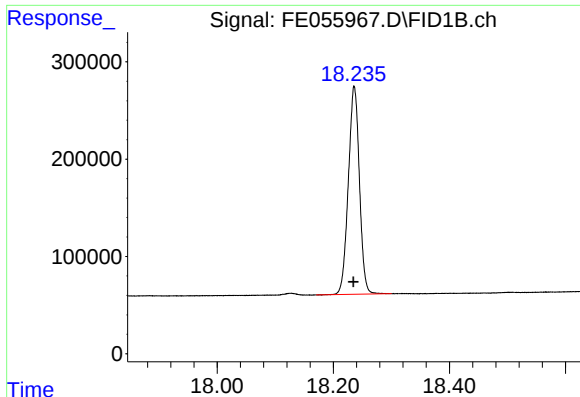
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 2744599
Conc: 19.24 ug/ml



#16 n-Octacosane (C28)

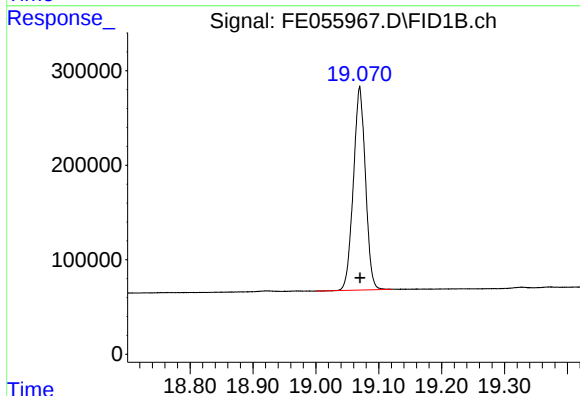
R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2675215
Conc: 19.20 ug/ml



#17 n-Tricontane (C30)

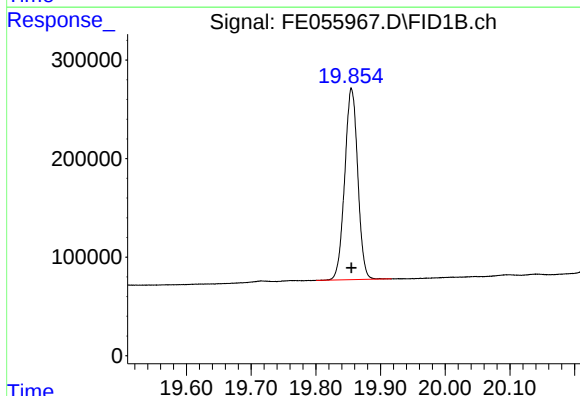
R.T.: 18.236 min
Delta R.T.: 0.002 min
Response: 2835374
Conc: 19.13 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



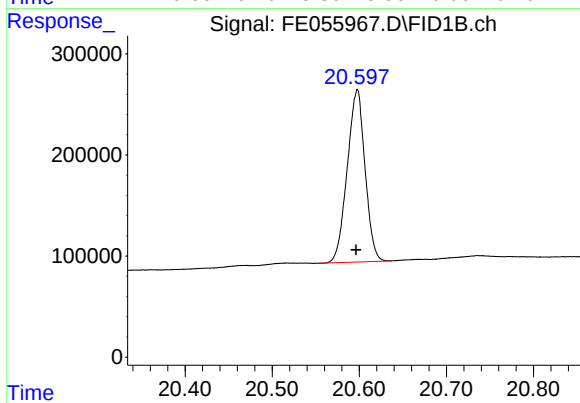
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 2865562
Conc: 19.21 ug/ml



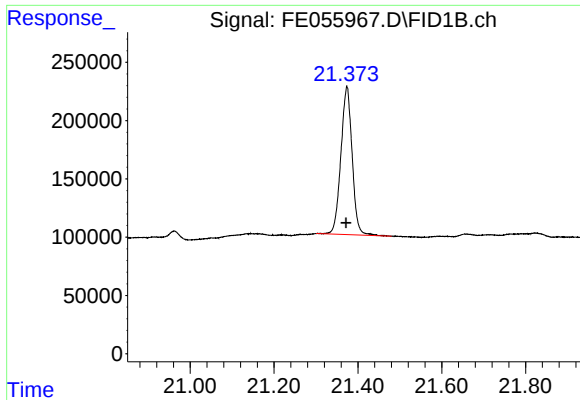
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 2719117
Conc: 19.22 ug/ml



#20 n-Hexatriacontane (C36)

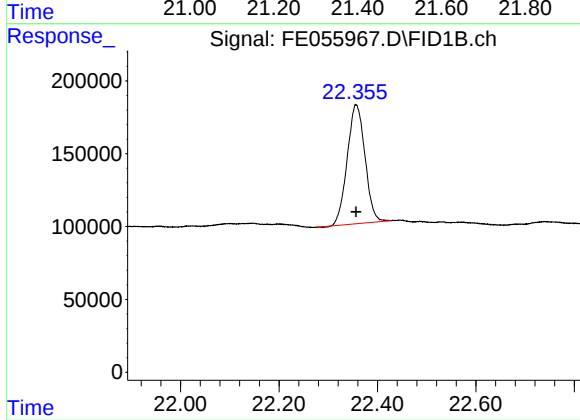
R.T.: 20.597 min
Delta R.T.: 0.001 min
Response: 2416072
Conc: 18.82 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min
Delta R.T.: 0.002 min
Response: 2366982
Conc: 18.02 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.357 min
Delta R.T.: 0.000 min
Response: 2042298
Conc: 17.17 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055967.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:39
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.380	3.455	BB	285220	2817872	76.82%	4.404%
2	4.668	4.624	4.720	BB	293455	2859346	77.95%	4.469%
3	6.388	6.357	6.477	BB	331697	3249421	88.58%	5.078%
4	6.843	6.800	6.897	BB	299925	2929821	79.87%	4.579%
5	7.488	7.447	7.579	BB	314271	3143650	85.70%	4.913%
6	8.680	8.645	8.745	BB	288401	2980588	81.25%	4.658%
7	10.295	10.255	10.355	BB	293683	3166204	86.31%	4.948%
8	11.745	11.699	11.804	BB	293541	3336057	90.94%	5.214%
9	12.071	12.030	12.120	BB	352970	3668282	100.00%	5.733%
10	13.060	13.022	13.119	BB	272237	3245046	88.46%	5.071%
11	13.508	13.472	13.565	BB	231703	2728050	74.37%	4.263%
12	13.674	13.637	13.734	BB	270029	3169164	86.39%	4.953%
13	14.262	14.227	14.330	BB	262720	3099587	84.50%	4.844%
14	15.369	15.332	15.430	BB	232304	2928176	79.82%	4.576%
15	16.393	16.332	16.459	BB	214476	2744599	74.82%	4.289%
16	17.346	17.275	17.412	BB	200293	2675215	72.93%	4.181%
17	18.236	18.170	18.300	BB	214339	2835374	77.29%	4.431%
18	19.070	19.000	19.120	BB	215278	2865562	78.12%	4.478%
19	19.855	19.800	19.917	BB	193722	2719117	74.13%	4.250%
20	20.597	20.550	20.637	BV	169926	2416072	65.86%	3.776%
21	21.374	21.300	21.480	BB	127571	2366982	64.53%	3.699%
22	22.357	22.275	22.429	BB	81304	2042298	55.67%	3.192%
Sum of corrected areas:							63986485	

Aliphatic EPH 092425.M Wed Sep 24 15:38:29 2025

Initial 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	

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-Fluorobiphenyl (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 Fluorene (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

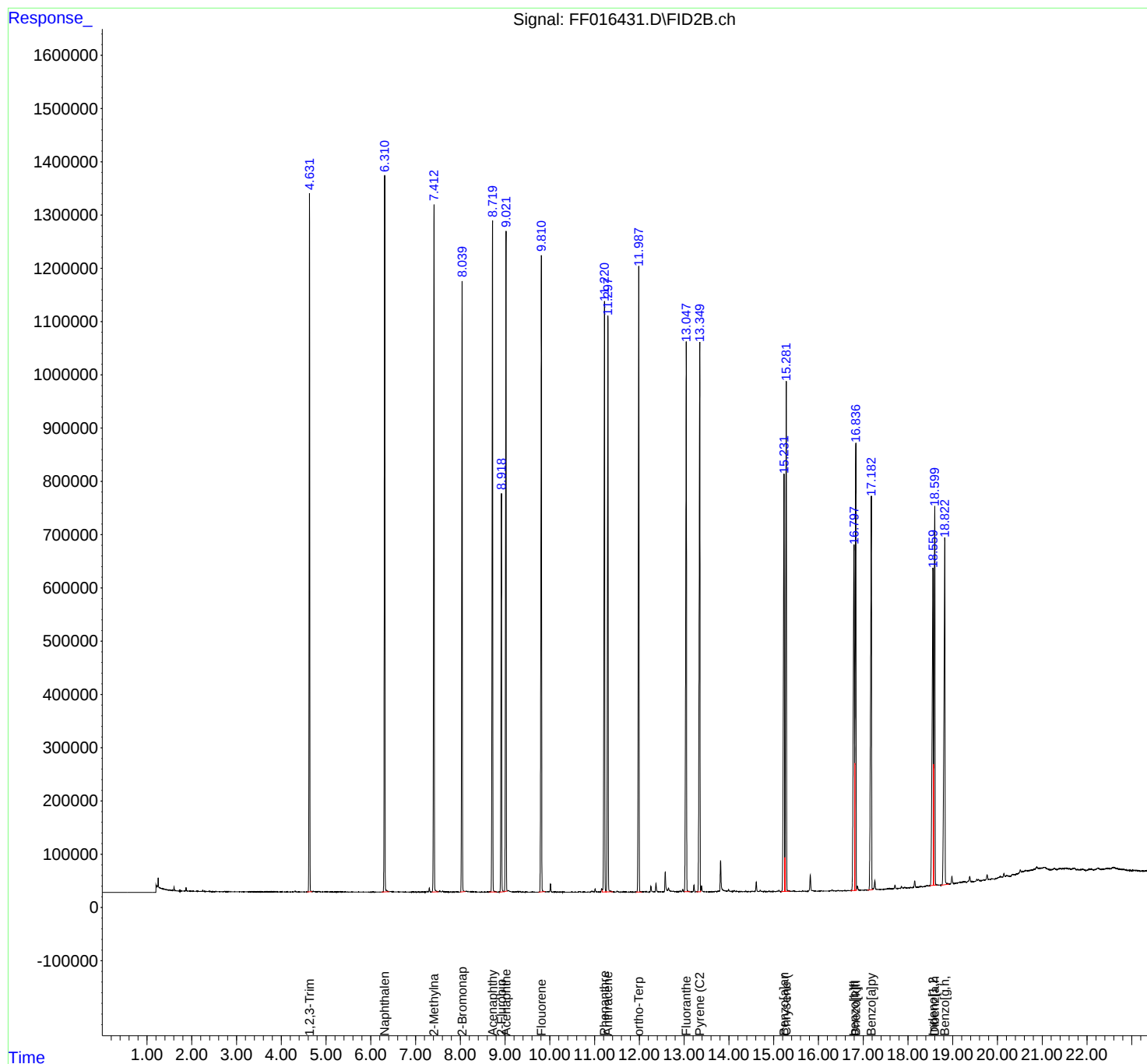
(m)=manual int.

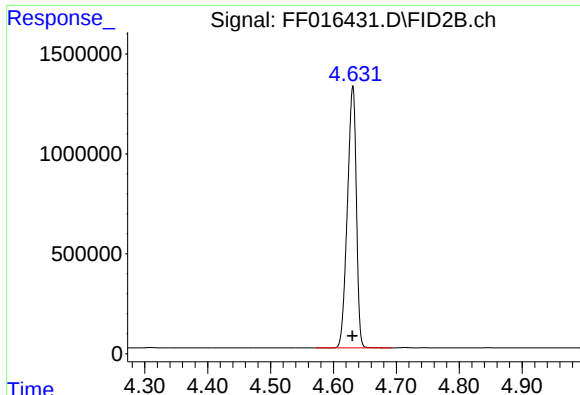
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016431.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 13:59
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

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)

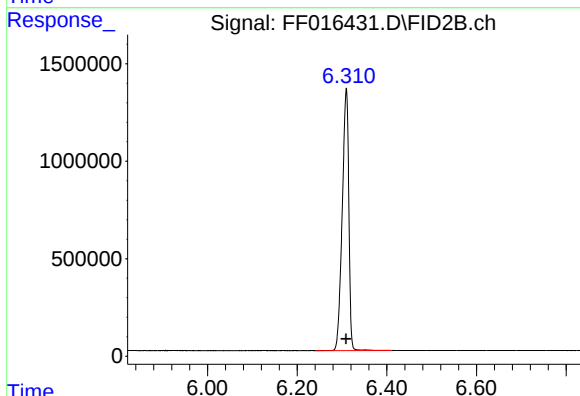
R.T.: 4.630 min
Delta R.T.: 0.000 min
Response: 12963406
Conc: 95.29 ug/ml

Instrument :

FID_F

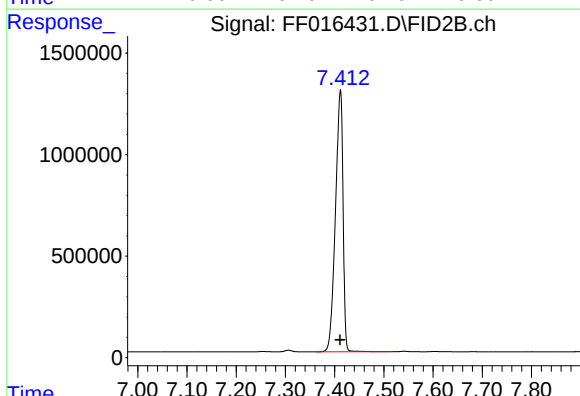
ClientSampleId :

100 PPM AROMATIC HC STD1



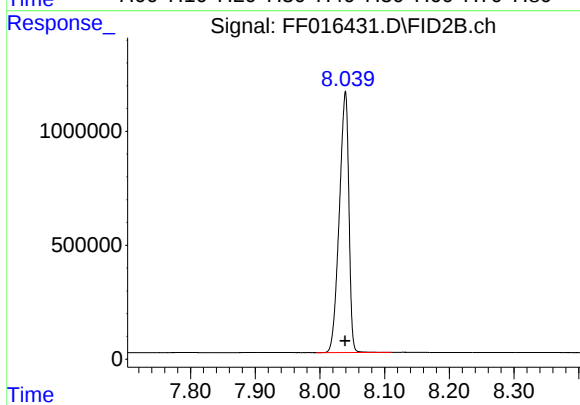
#2 Naphthalene (C11.7)

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



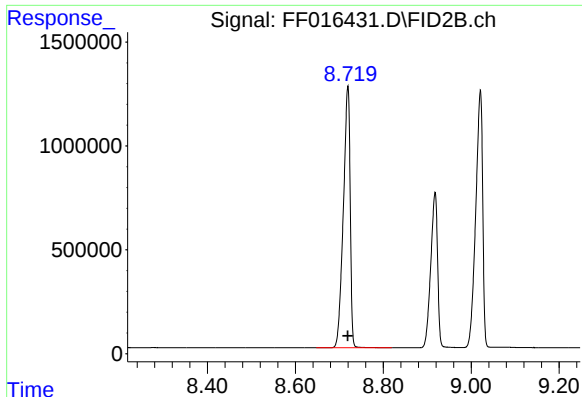
#3 2-Methylnaphthalene (C12.89)

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)

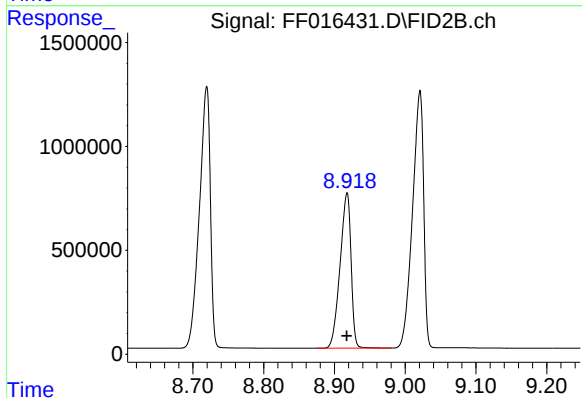
R.T.: 8.719 min
Delta R.T.: 0.000 min
Response: 13570625
Conc: 95.61 ug/ml

Instrument :

FID_F

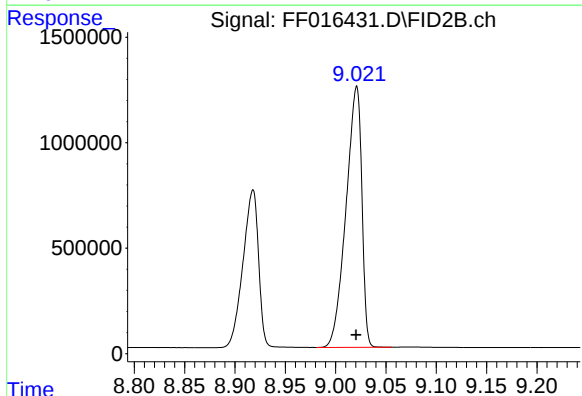
ClientSampleId :

100 PPM AROMATIC HC STD1



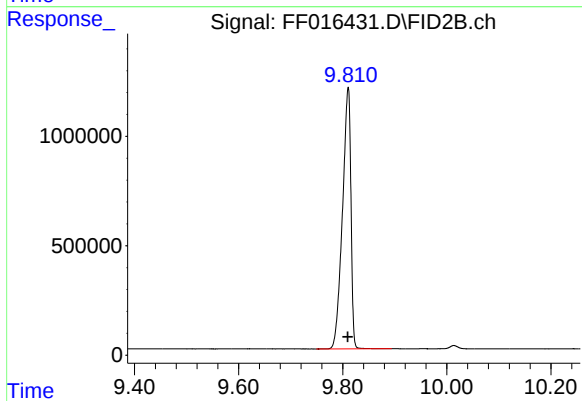
#6 2-Fluorobiphenyl (SURR)

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



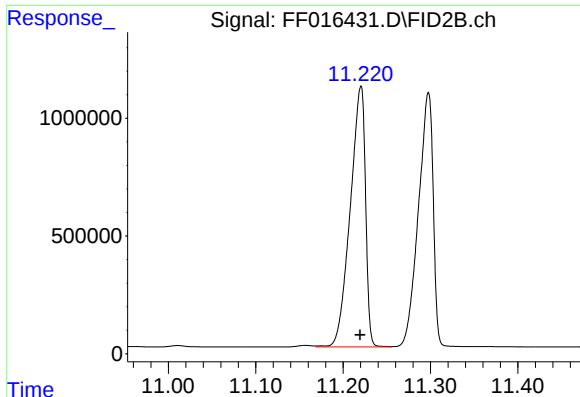
#7 Acenaphthene (C15.5)

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



#8 Fluorene (C16.55)

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



#9 Phenanthrene (C19.36)

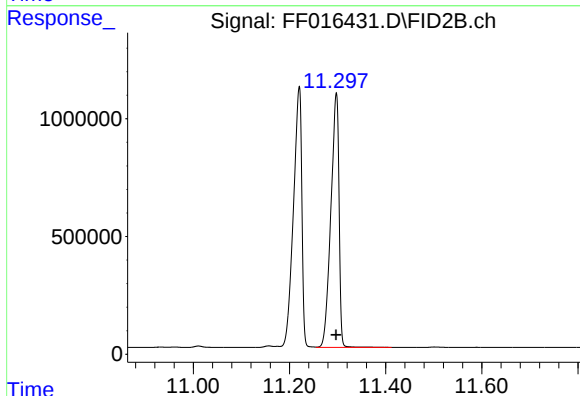
R.T.: 11.220 min
Delta R.T.: 0.000 min
Response: 13438313
Conc: 94.91 ug/ml

Instrument :

FID_F

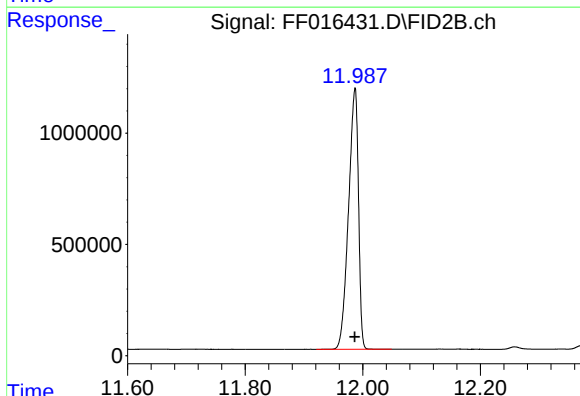
ClientSampleId :

100 PPM AROMATIC HC STD1



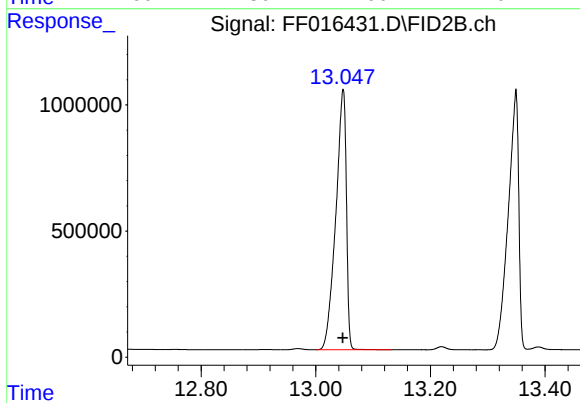
#10 Anthracene (C19.43)

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



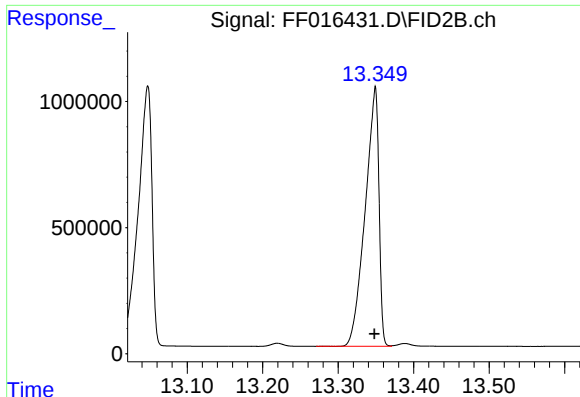
#11 ortho-Terphenyl (SURR)

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)

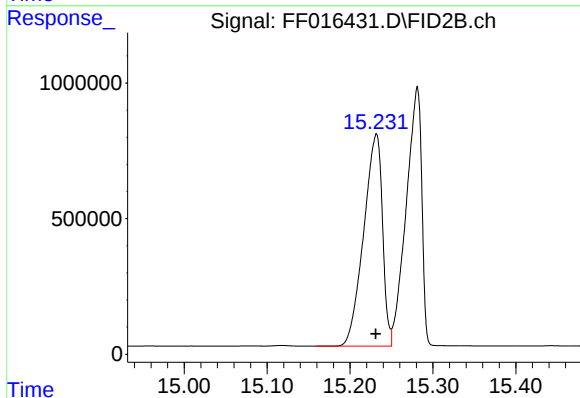
R.T.: 13.348 min
Delta R.T.: 0.000 min
Response: 13029172
Conc: 94.51 ug/ml

Instrument :

FID_F

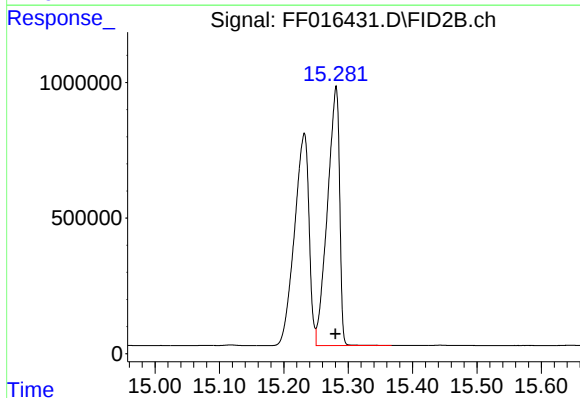
ClientSampleId :

100 PPM AROMATIC HC STD1



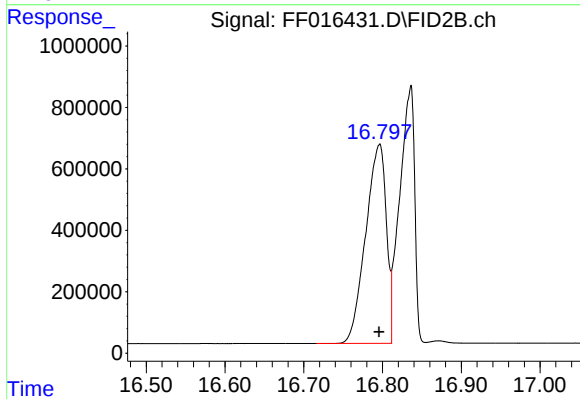
#14 Benzo[a]anthracene (C26.37)

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



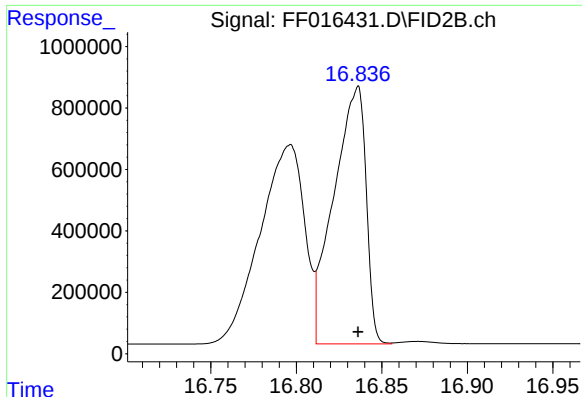
#15 Chrysene (C27.41)

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)

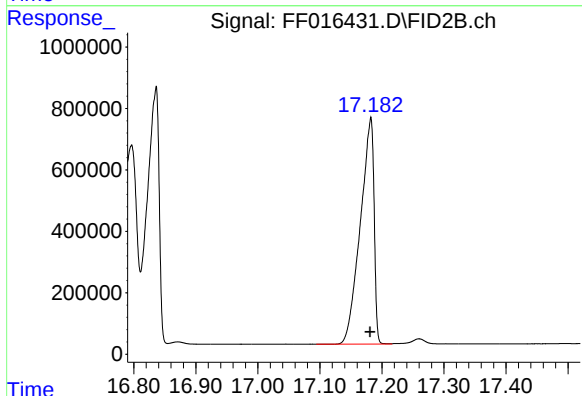
R.T.: 16.835 min
Delta R.T.: -0.002 min
Response: 10991506
Conc: 92.58 ug/ml

Instrument :

FID_F

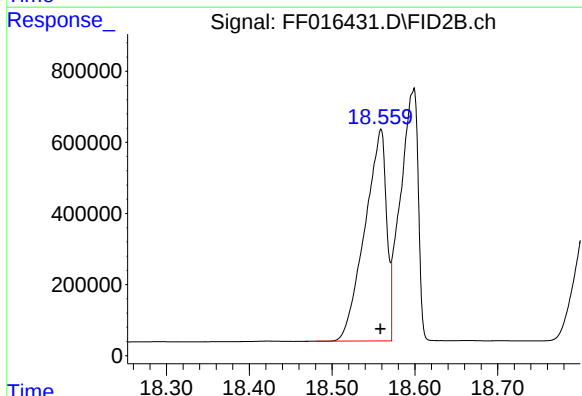
ClientSampleId :

100 PPM AROMATIC HC STD1



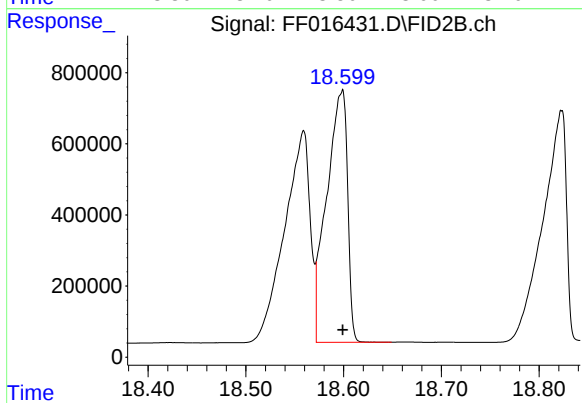
#18 Benzo[a]pyrene (C31.34)

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



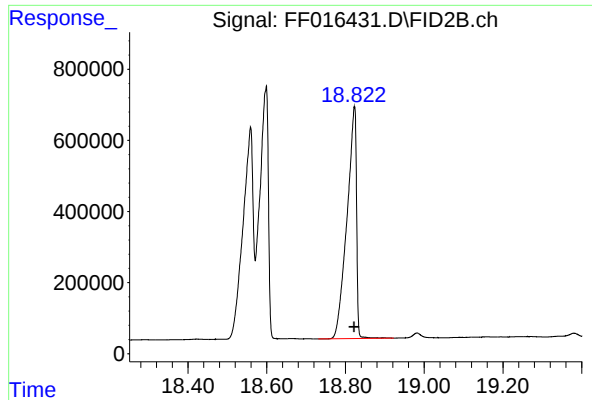
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

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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

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-Fluorobiphenyl (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

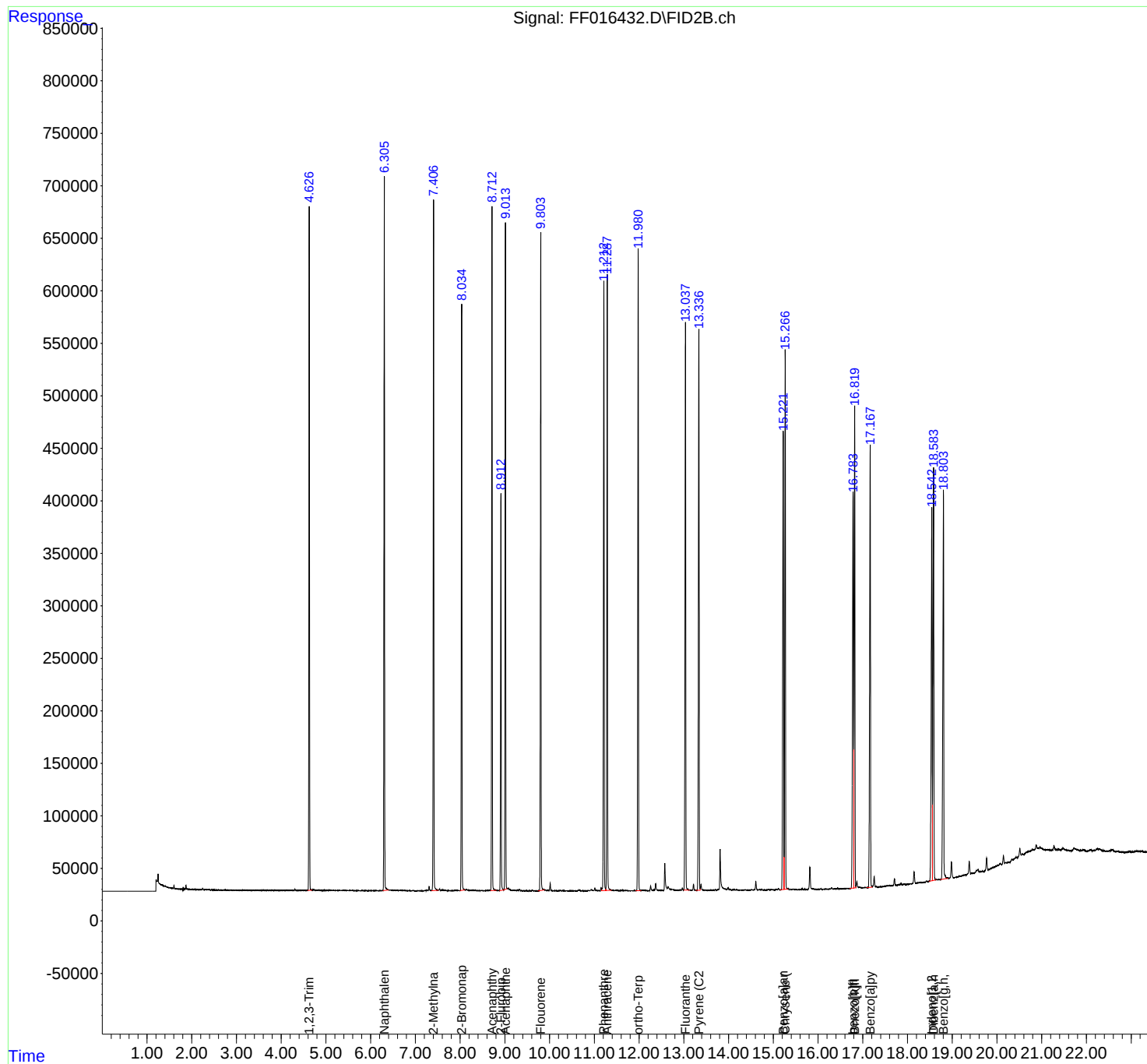
(m)=manual int.

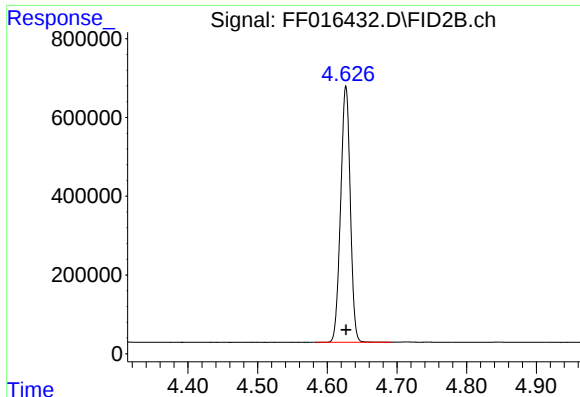
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016432.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:29
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

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

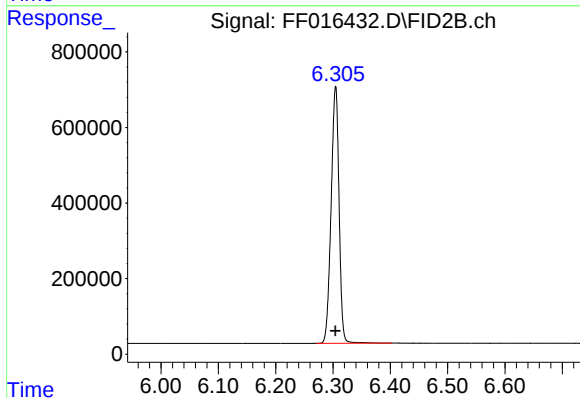




#1 1,2,3-Trimethylbenzene (C10.1)

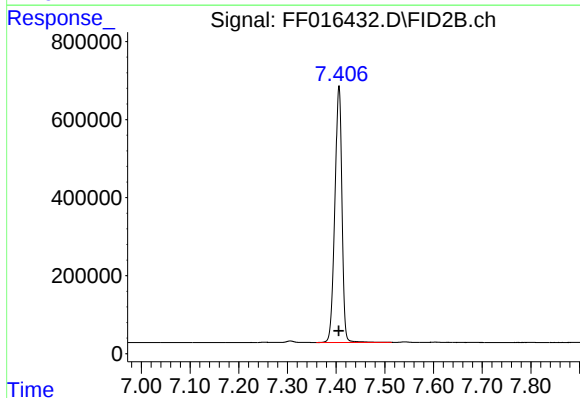
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 6249533
Conc: 47.22 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



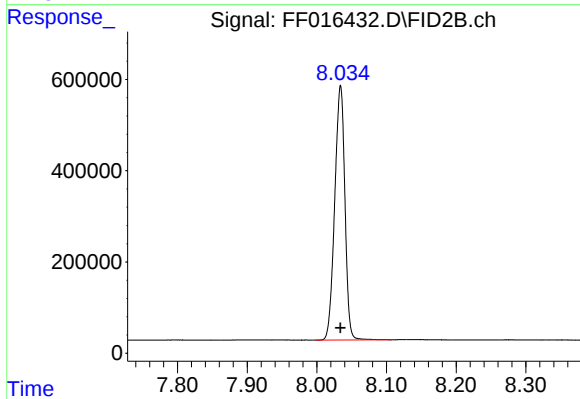
#2 Naphthalene (C11.7)

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



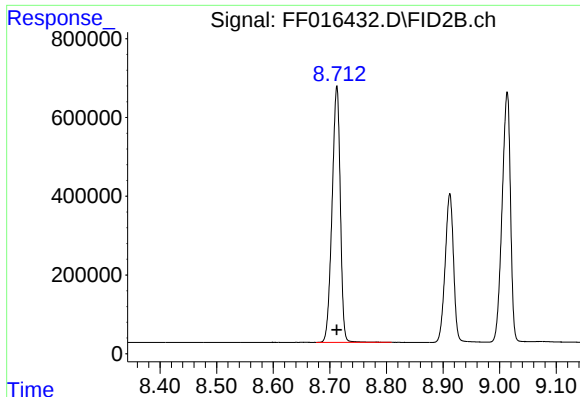
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

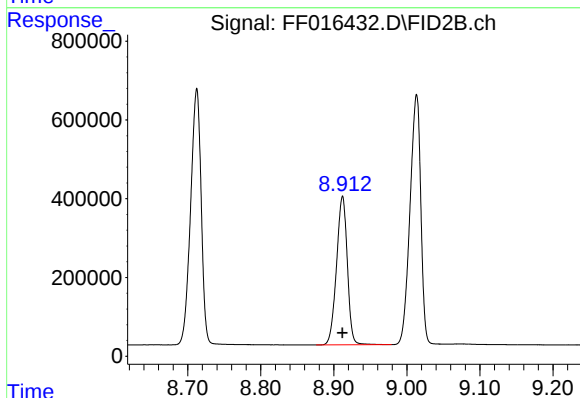
R.T.: 8.034 min
Delta R.T.: 0.000 min
Response: 5654549
Conc: 47.31 ug/ml



#5 Acenaphthylene (C15.06)

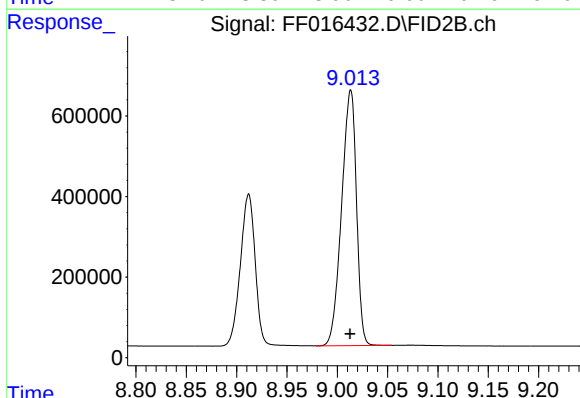
R.T.: 8.712 min
Delta R.T.: 0.000 min
Response: 6564172
Conc: 47.43 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



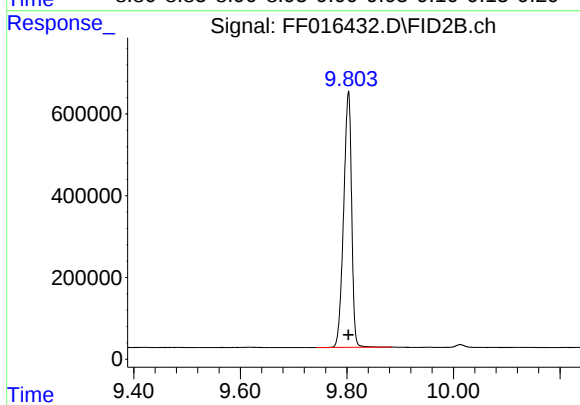
#6 2-Fluorobiphenyl (SURR)

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



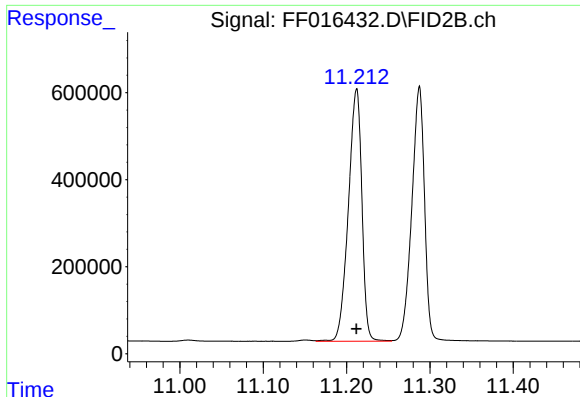
#7 Acenaphthene (C15.5)

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



#8 Fluorene (C16.55)

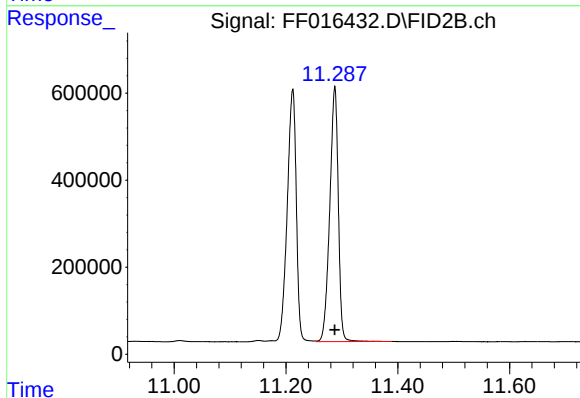
R.T.: 9.803 min
Delta R.T.: 0.000 min
Response: 6507793
Conc: 47.21 ug/ml



#9 Phenanthrene (C19.36)

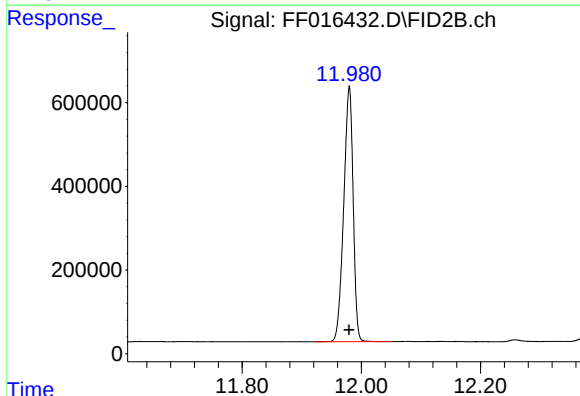
R.T.: 11.212 min
Delta R.T.: 0.000 min
Response: 6532119
Conc: 47.36 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



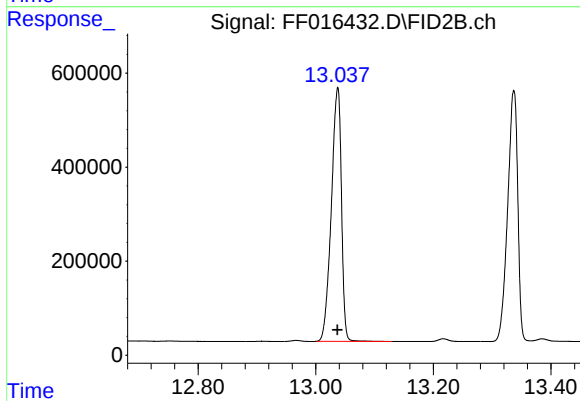
#10 Anthracene (C19.43)

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



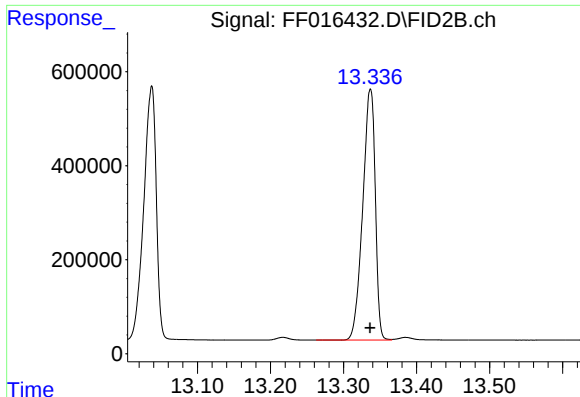
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

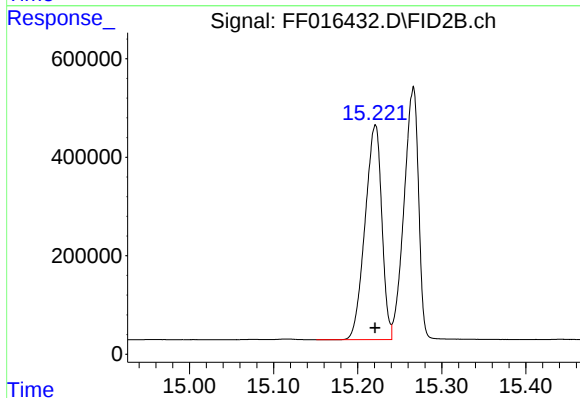
R.T.: 13.037 min
Delta R.T.: 0.000 min
Response: 6442747
Conc: 47.24 ug/ml



#13 Pyrene (C20.8)

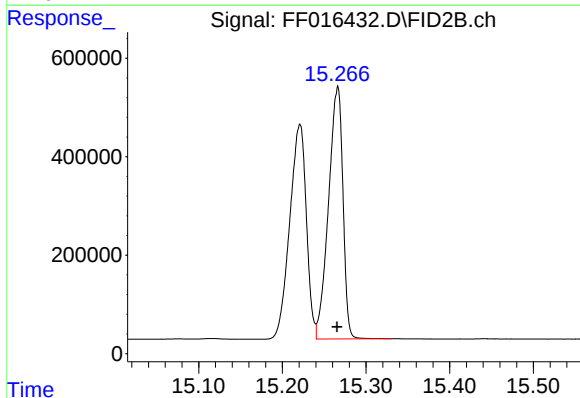
R.T.: 13.337 min
Delta R.T.: 0.000 min
Response: 6369315
Conc: 47.40 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



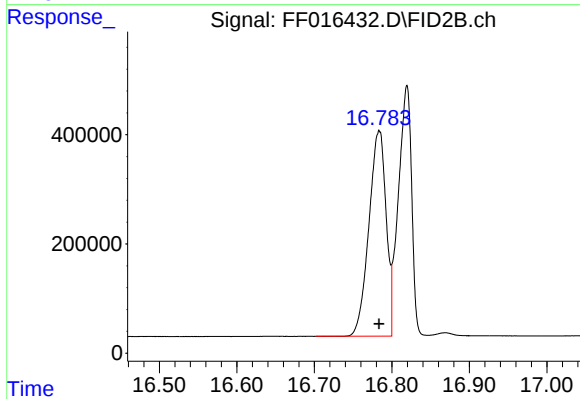
#14 Benzo[a]anthracene (C26.37)

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



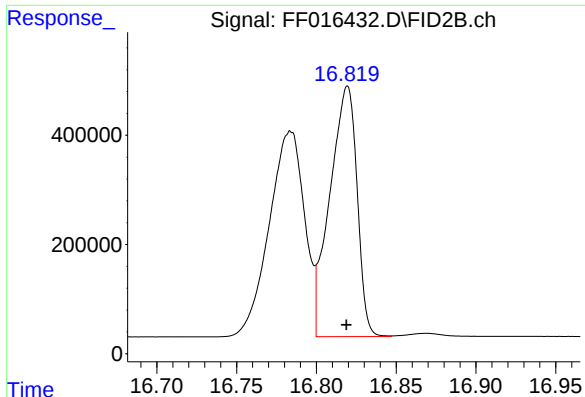
#15 Chrysene (C27.41)

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



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

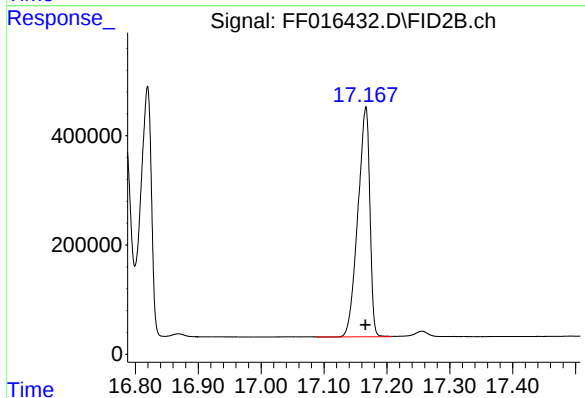
R.T.: 16.783 min
Delta R.T.: 0.000 min
Response: 5795694
Conc: 47.15 ug/ml



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

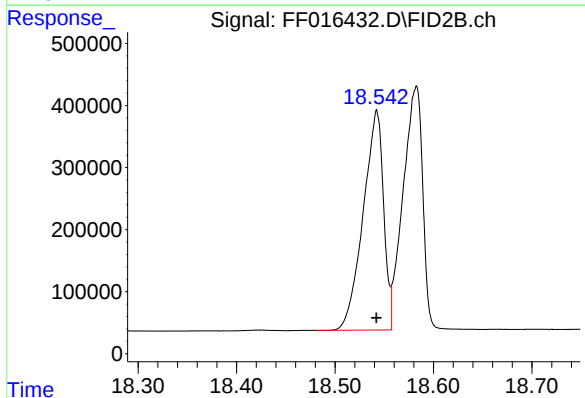
R.T.: 16.819 min
Delta R.T.: 0.000 min
Response: 5445729
Conc: 47.10 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



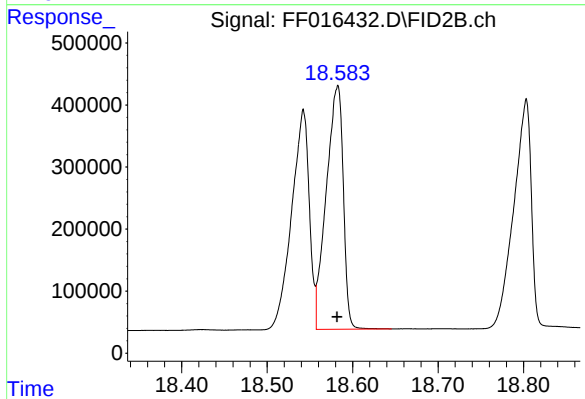
#18 Benzo[a]pyrene (C31.34)

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



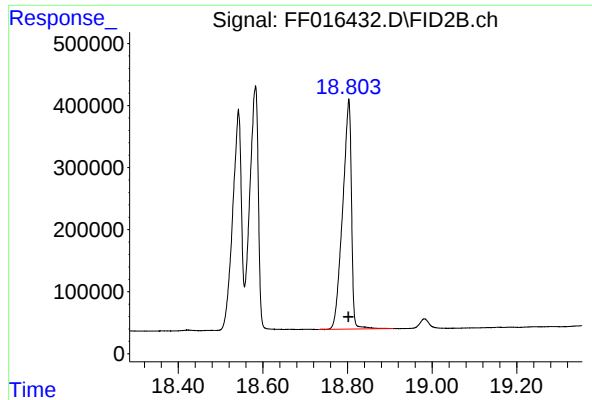
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

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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

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-Fluorobiphenyl (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

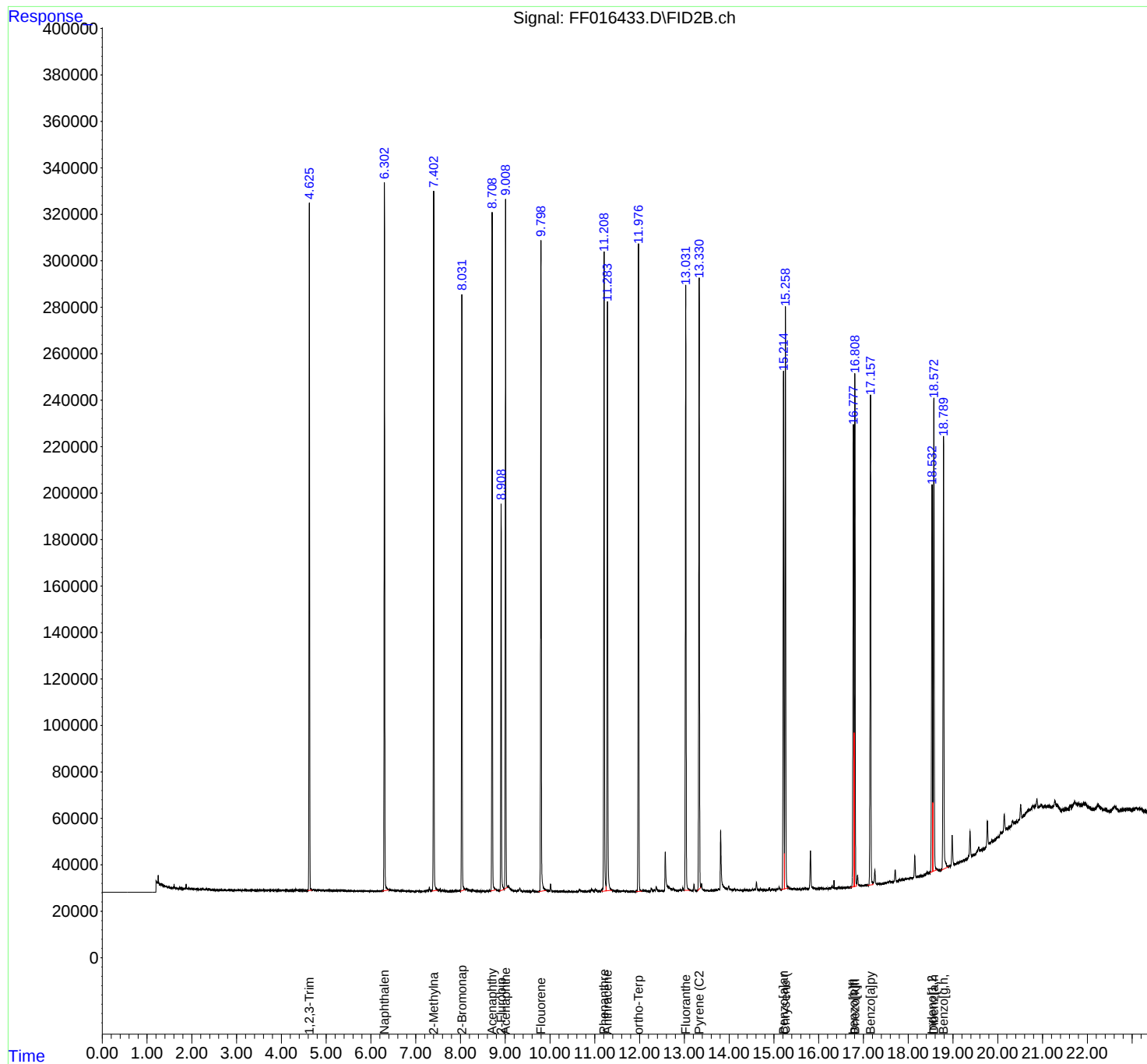
(m)=manual int.

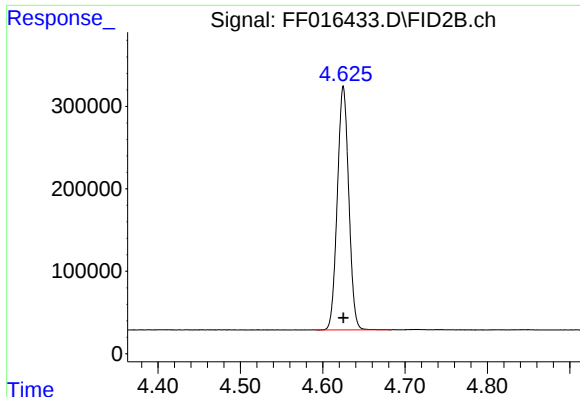
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016433.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 14:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

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

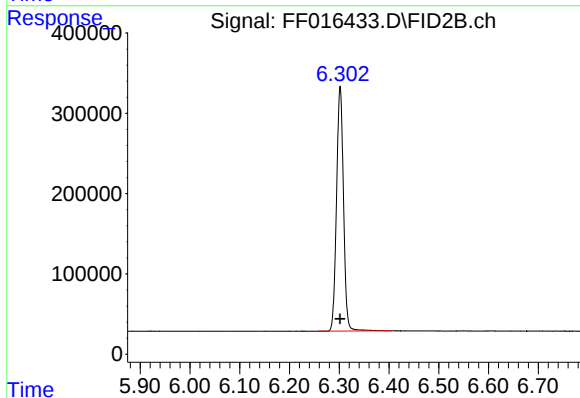




#1 1,2,3-Trimethylbenzene (C10.1)

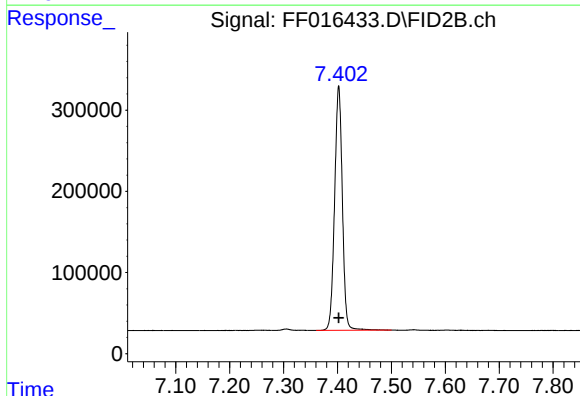
R.T.: 4.625 min
Delta R.T.: 0.000 min
Response: 2848825
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



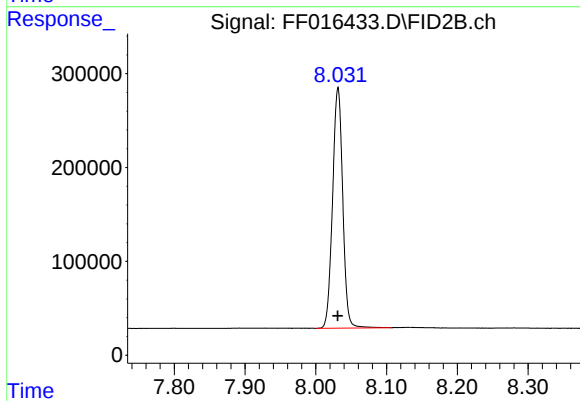
#2 Naphthalene (C11.7)

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



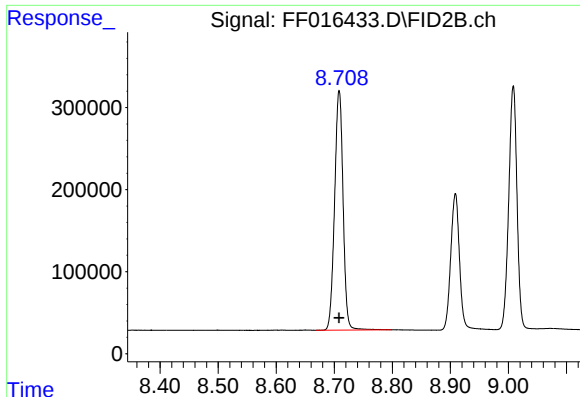
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

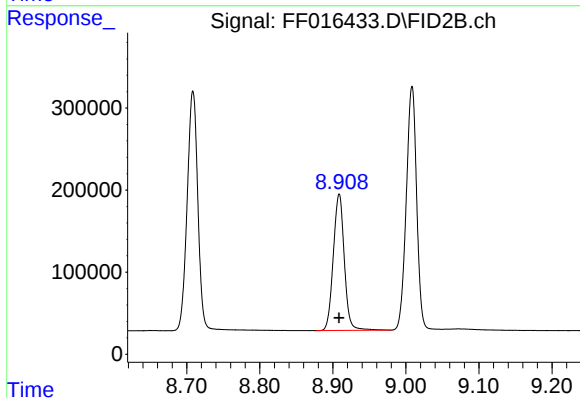
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 2558337
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

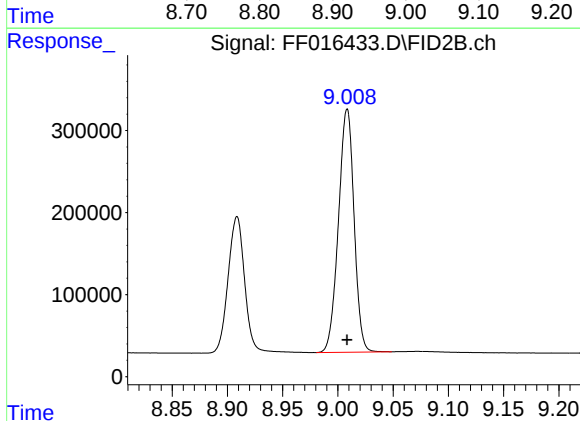
R.T.: 8.708 min
Delta R.T.: 0.000 min
Response: 2963322
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



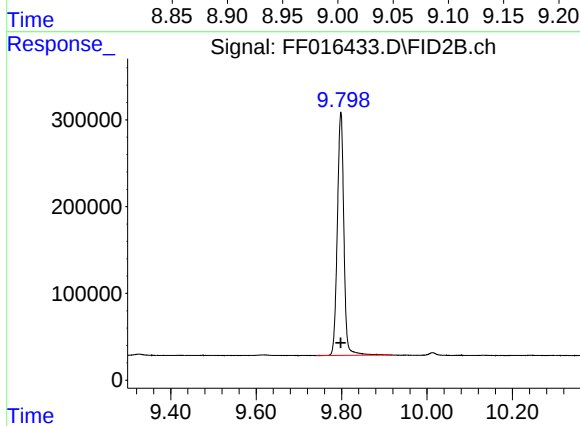
#6 2-Fluorobiphenyl (SURR)

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



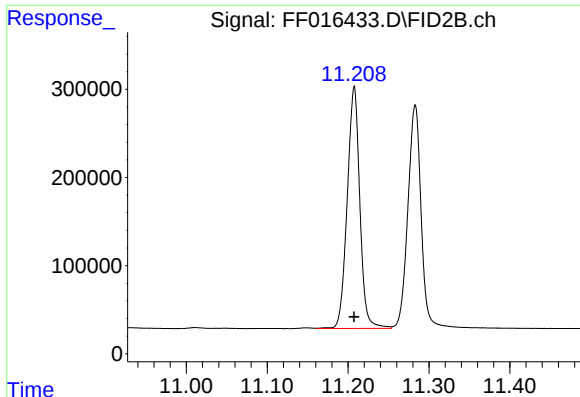
#7 Acenaphthene (C15.5)

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



#8 Fluorene (C16.55)

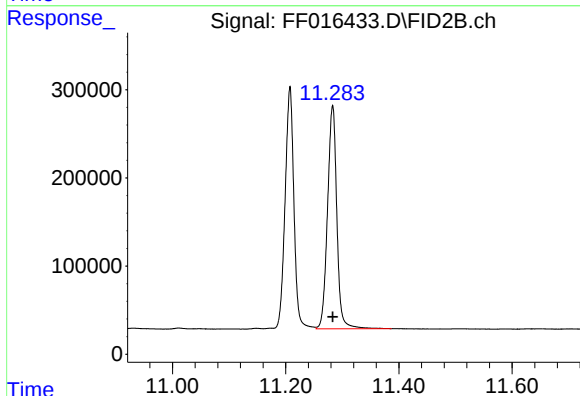
R.T.: 9.798 min
Delta R.T.: 0.000 min
Response: 2976884
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

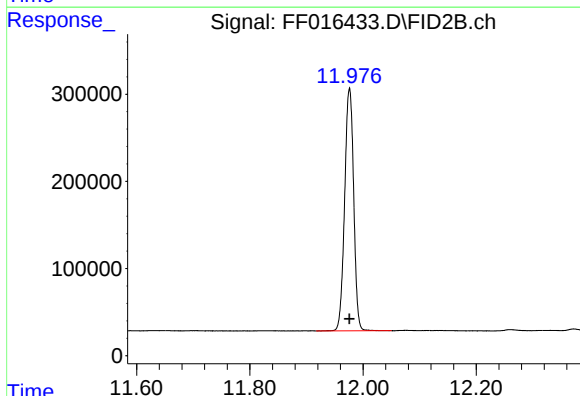
R.T.: 11.207 min
Delta R.T.: 0.000 min
Response: 2975729
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



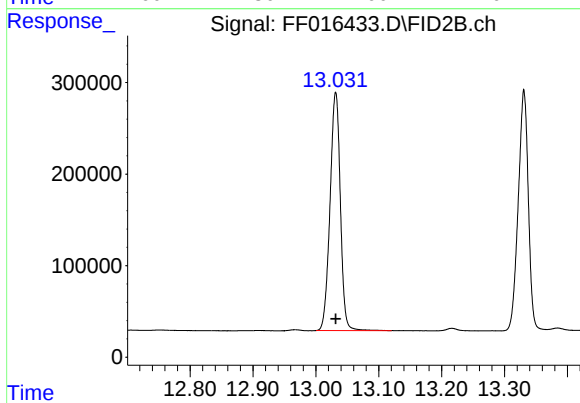
#10 Anthracene (C19.43)

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



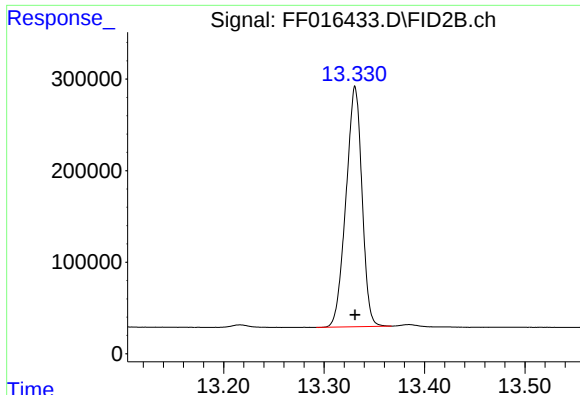
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

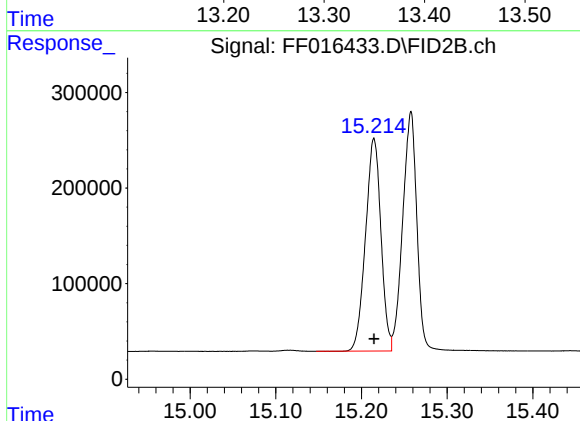
R.T.: 13.032 min
Delta R.T.: 0.000 min
Response: 2967546
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

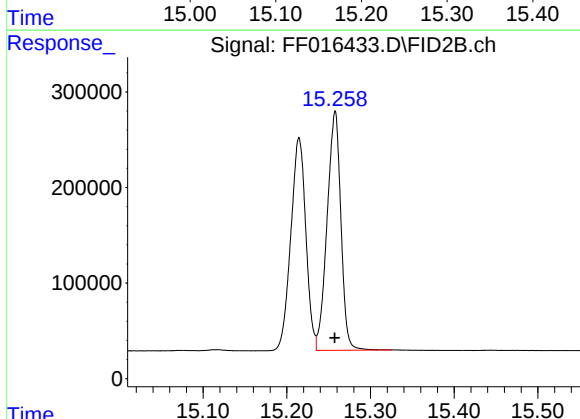
R.T.: 13.331 min
Delta R.T.: 0.000 min
Response: 2908519
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



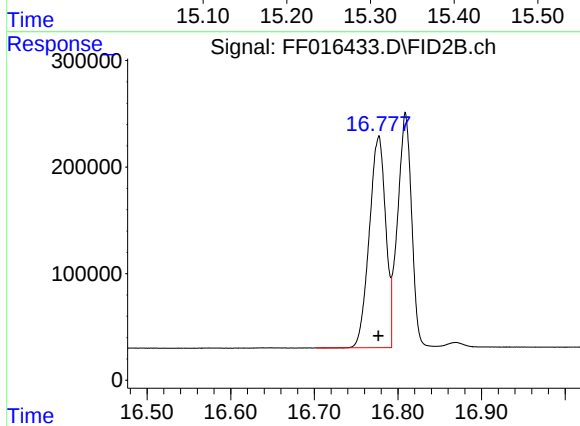
#14 Benzo[a]anthracene (C26.37)

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



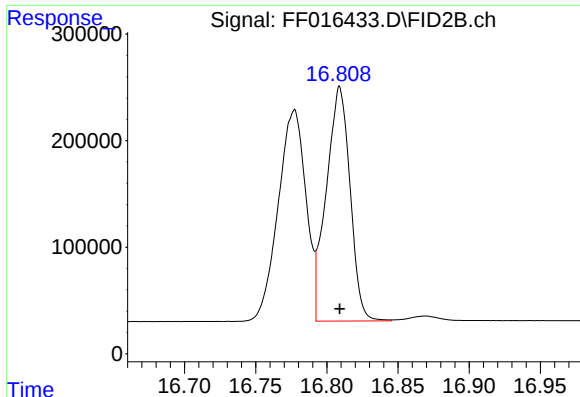
#15 Chrysene (C27.41)

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



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

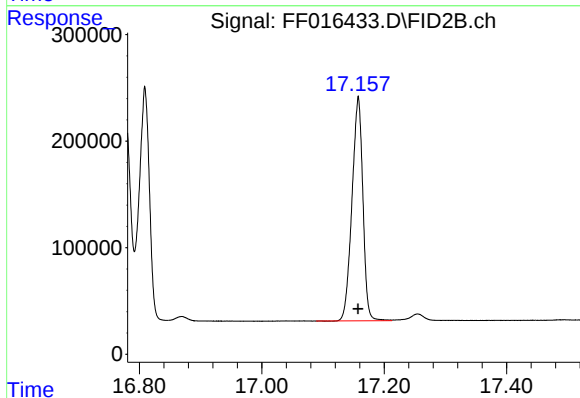
R.T.: 16.777 min
Delta R.T.: 0.000 min
Response: 2696749
Conc: 20.00 ug/ml



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

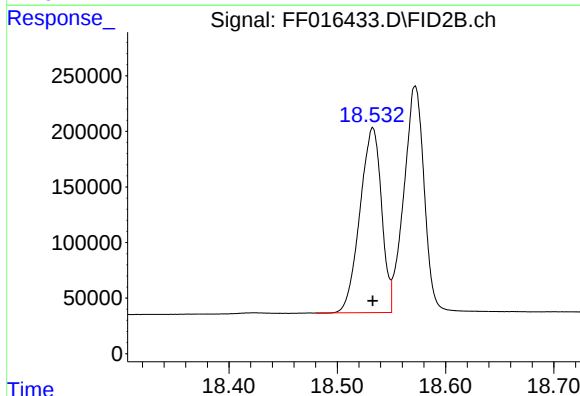
R.T.: 16.809 min
Delta R.T.: 0.000 min
Response: 2560301
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



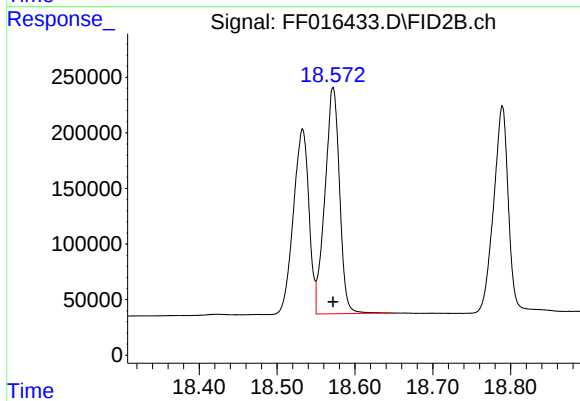
#18 Benzo[a]pyrene (C31.34)

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



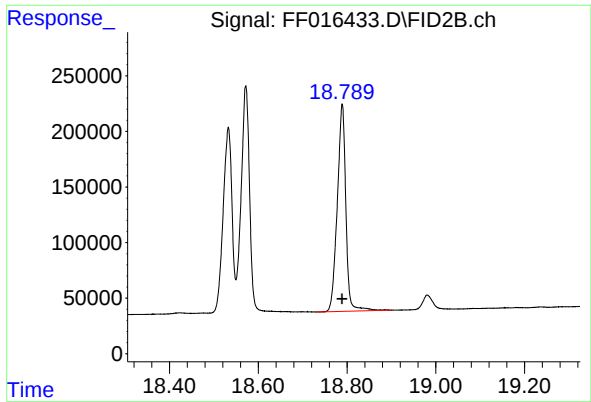
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

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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

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-Fluorobiphenyl (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

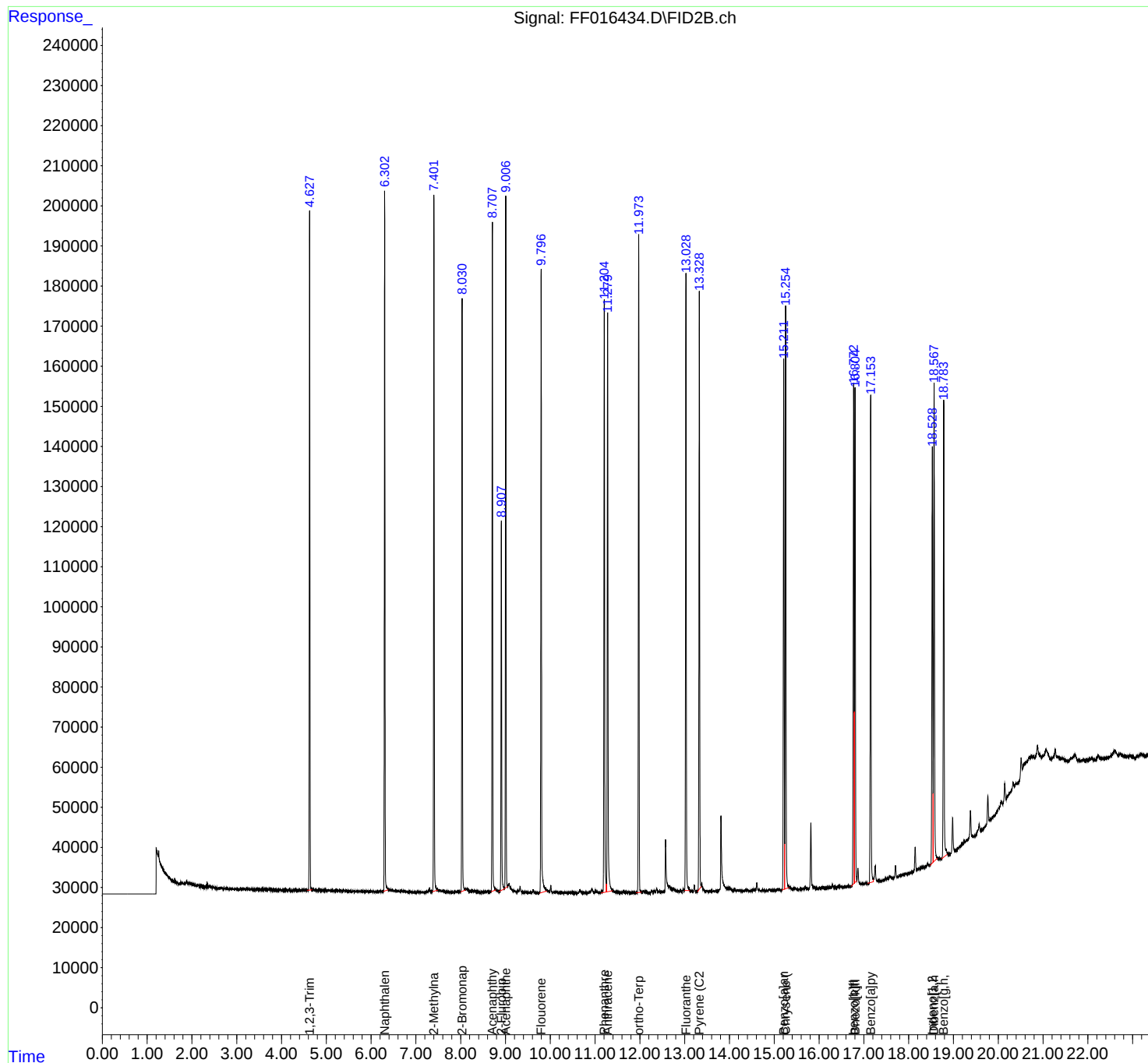
(m)=manual int.

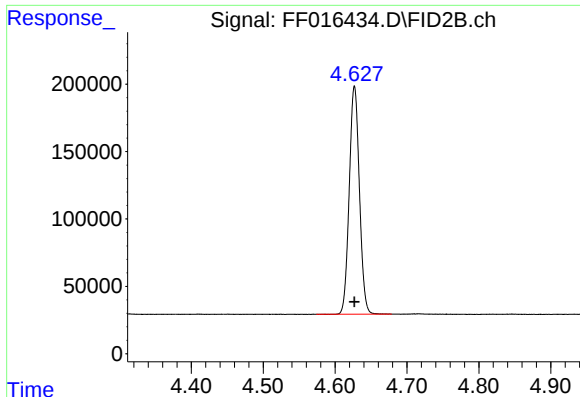
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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\  
Data File : FF016434.D  
Signal(s) : FID2B.ch  
Acq On    : 24 Sep 2025  15:28  
Operator  : YP\AJ  
Sample    : 10 PPM AROMATIC HC STD4  
Misc      :  
ALS Vial  : 74   Sample Multiplier: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

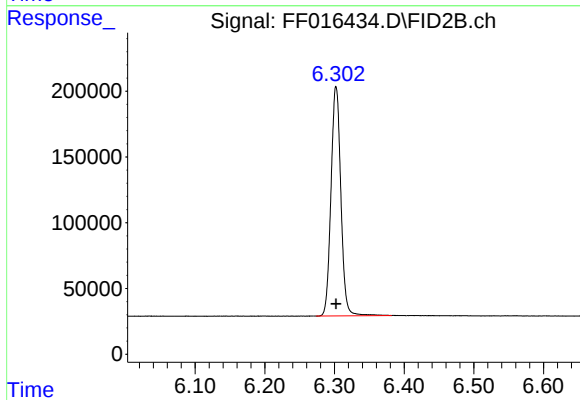




#1 1,2,3-Trimethylbenzene (C10.1)

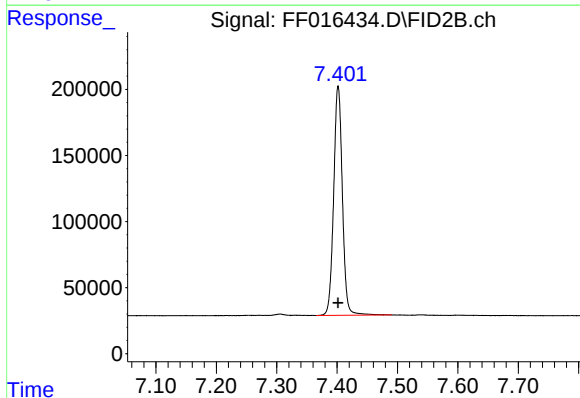
R.T.: 4.627 min
Delta R.T.: 0.000 min
Response: 1662196
Conc: 11.80 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



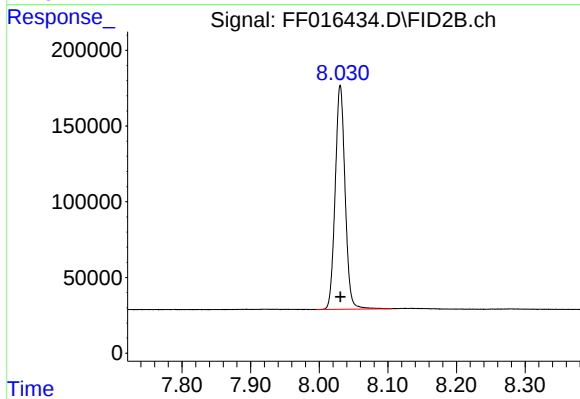
#2 Naphthalene (C11.7)

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



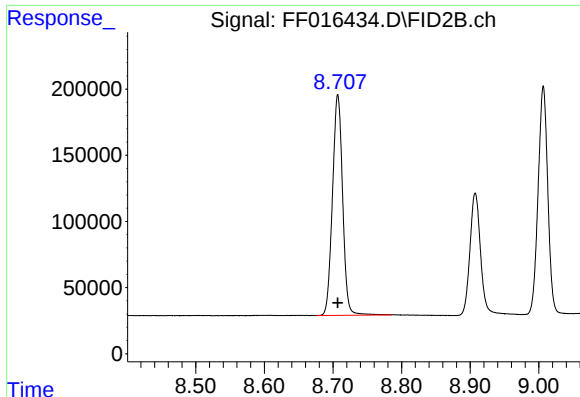
#3 2-Methylnaphthalene (C12.89)

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



#4 2-Bromonaphthalene (SURR)

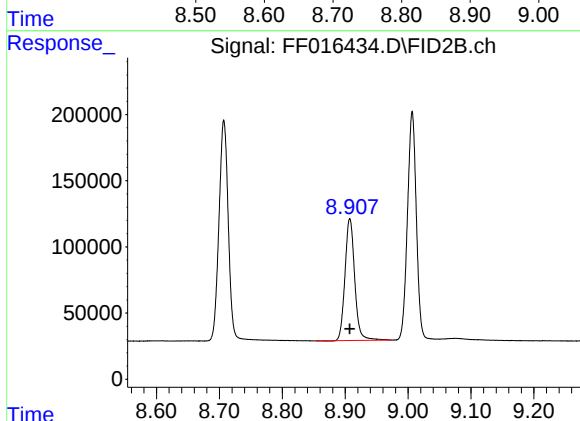
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 1481517
Conc: 11.70 ug/ml



#5 Acenaphthylene (C15.06)

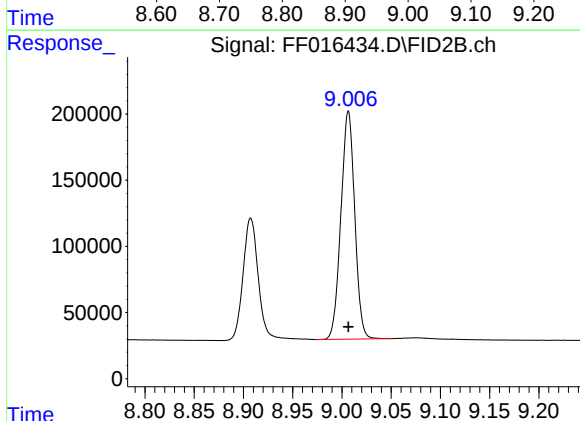
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 1714200
Conc: 11.69 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



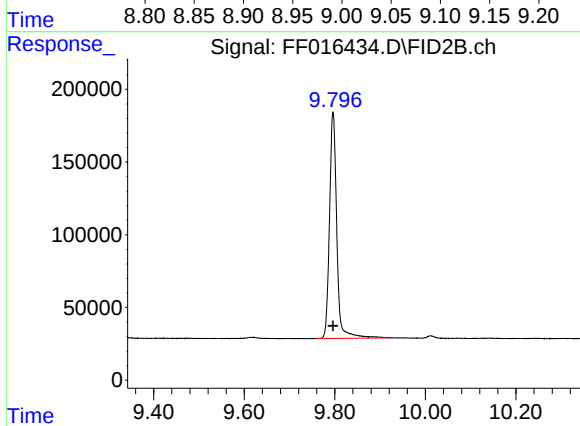
#6 2-Fluorobiphenyl (SURR)

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



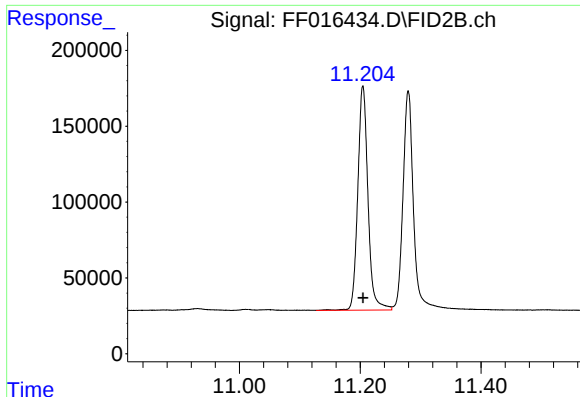
#7 Acenaphthene (C15.5)

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



#8 Fluorene (C16.55)

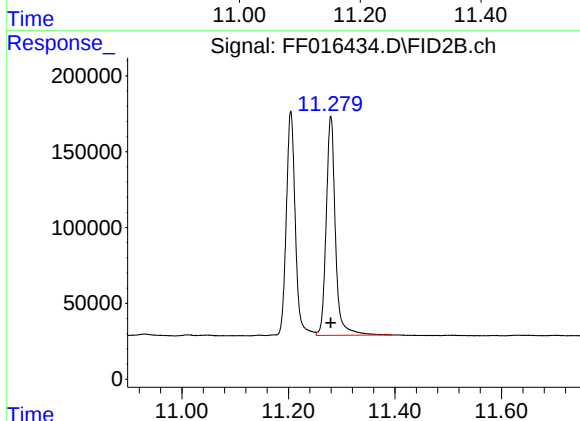
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 1736875
Conc: 11.83 ug/ml



#9 Phenanthrene (C19.36)

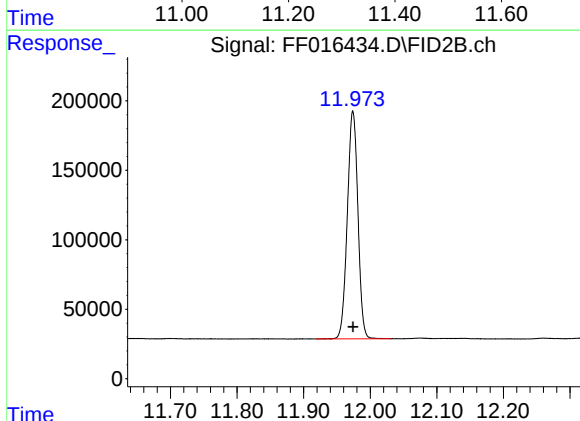
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 1732603
Conc: 11.81 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



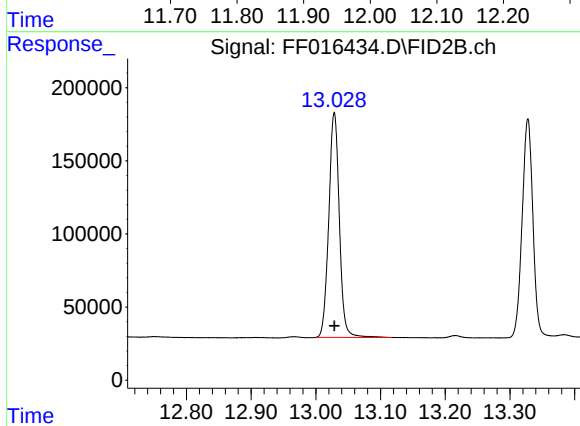
#10 Anthracene (C19.43)

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



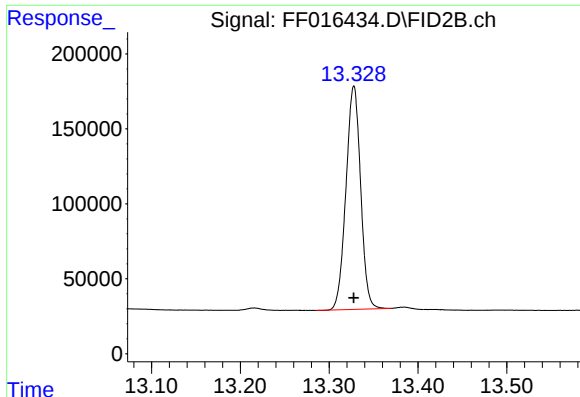
#11 ortho-Terphenyl (SURR)

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



#12 Fluoranthene (C21.85)

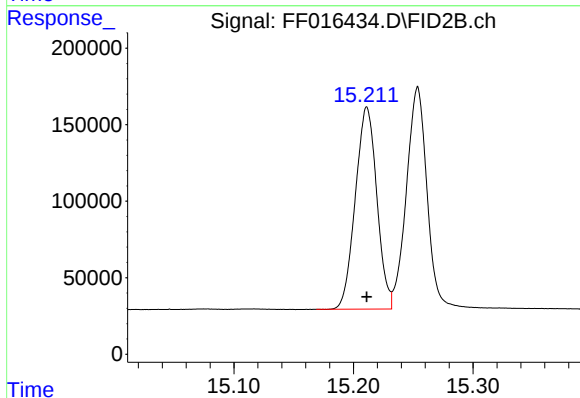
R.T.: 13.029 min
Delta R.T.: 0.000 min
Response: 1749056
Conc: 11.98 ug/ml



#13 Pyrene (C20.8)

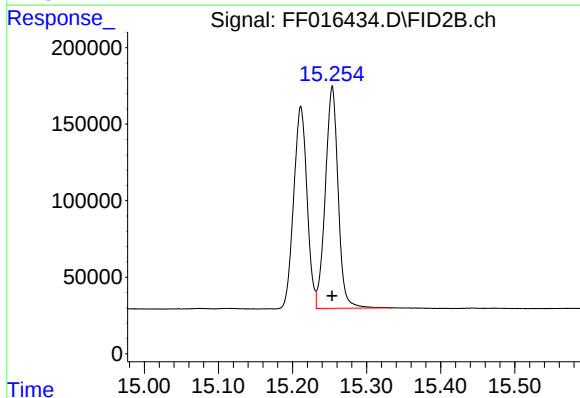
R.T.: 13.328 min
Delta R.T.: 0.000 min
Response: 1709506
Conc: 11.91 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



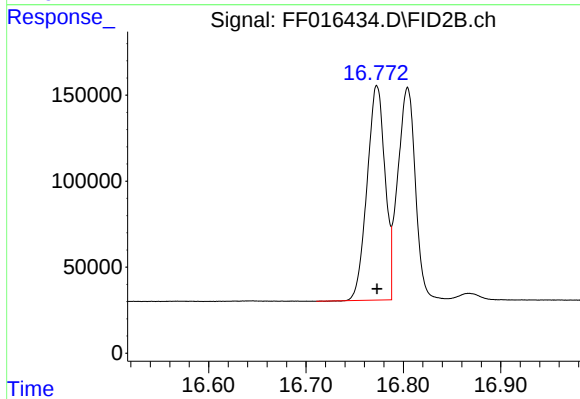
#14 Benzo[a]anthracene (C26.37)

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



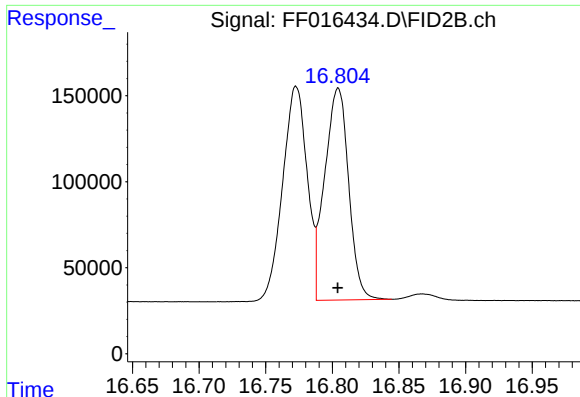
#15 Chrysene (C27.41)

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



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

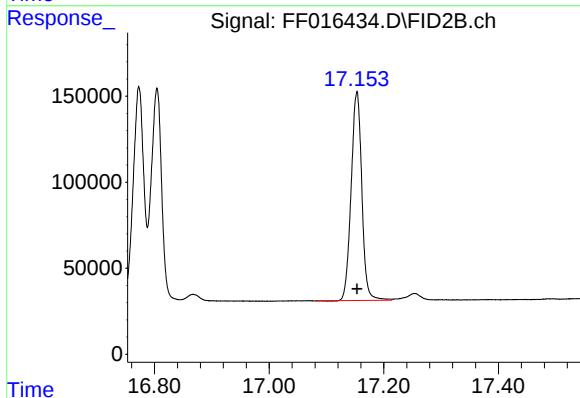
R.T.: 16.773 min
Delta R.T.: 0.000 min
Response: 1594531
Conc: 12.07 ug/ml



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

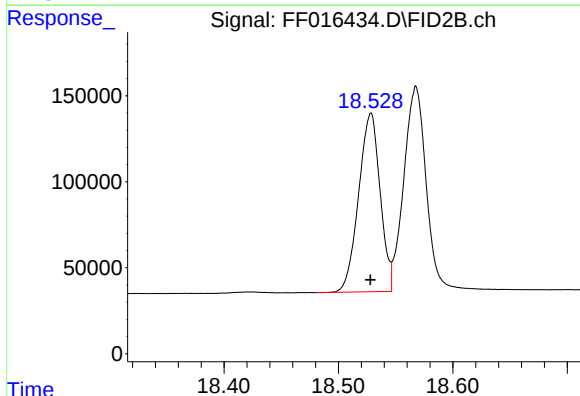
R.T.: 16.804 min
Delta R.T.: 0.000 min
Response: 1540396
Conc: 12.30 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



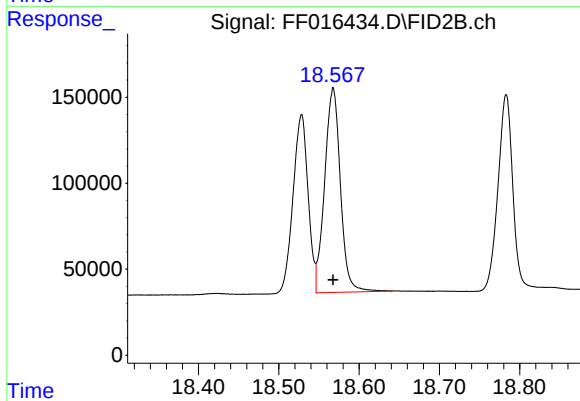
#18 Benzo[a]pyrene (C31.34)

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



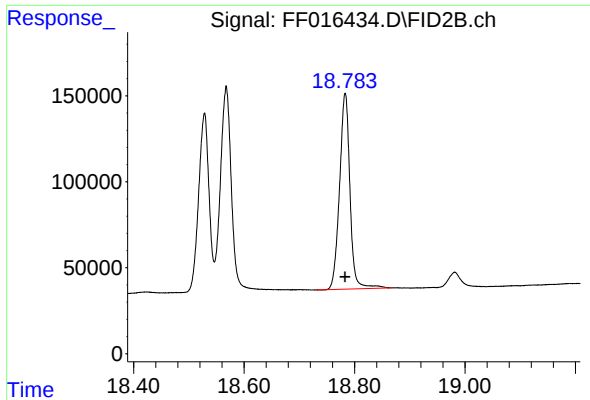
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

1
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16

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

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-Fluorobiphenyl (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

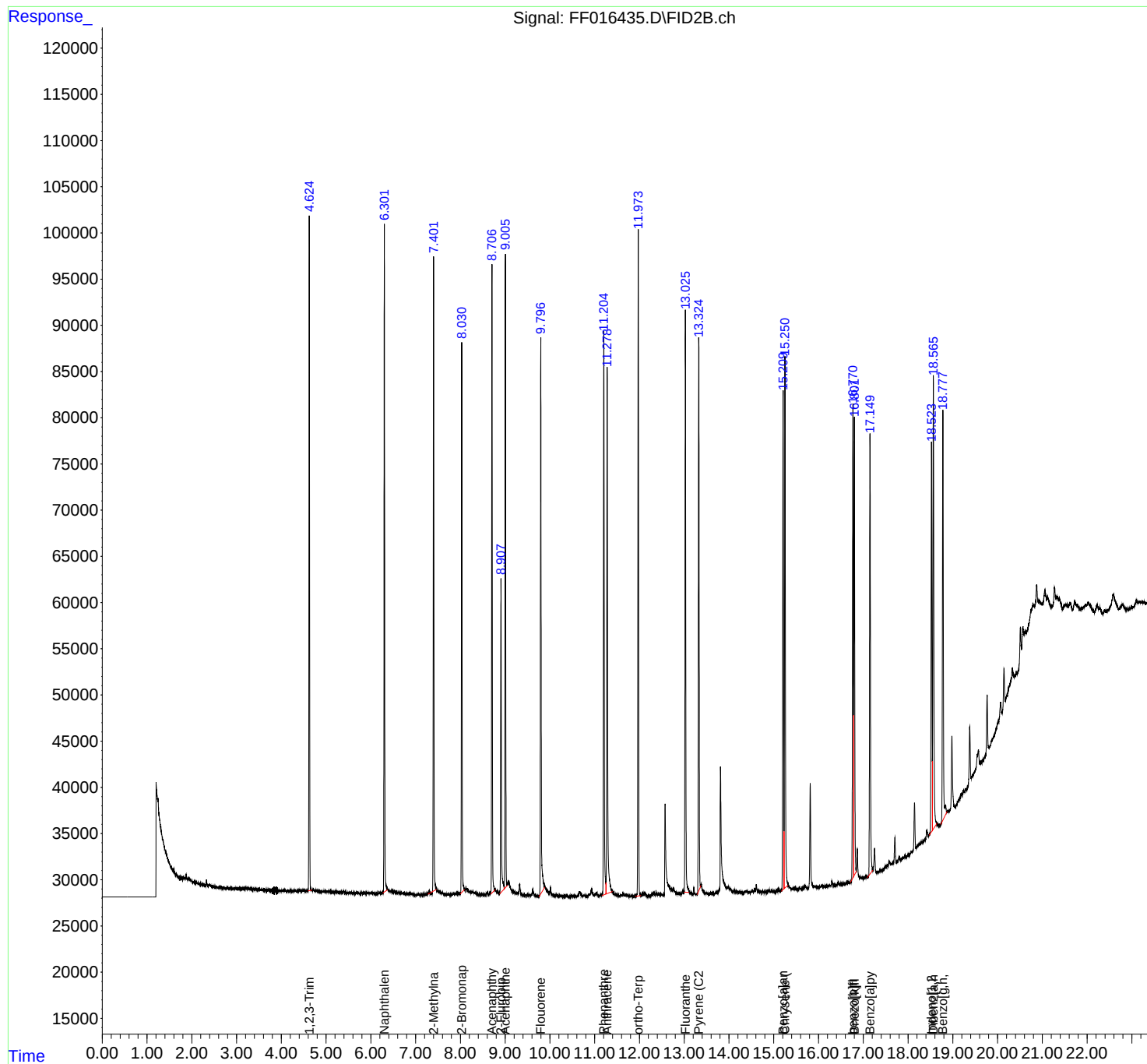
(m)=manual int.

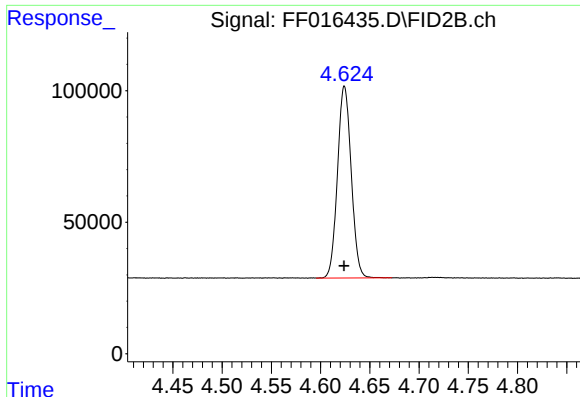
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016435.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 15:58
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

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

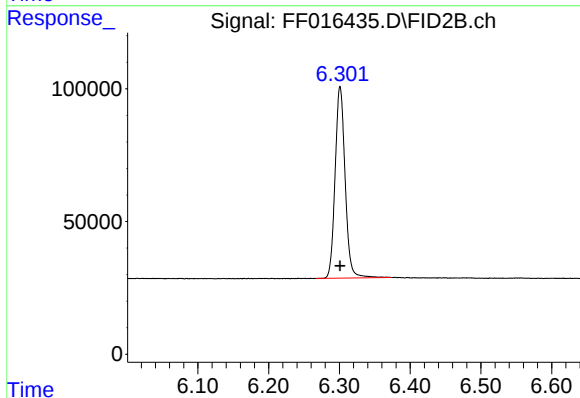




#1 1,2,3-Trimethylbenzene (C10.1)

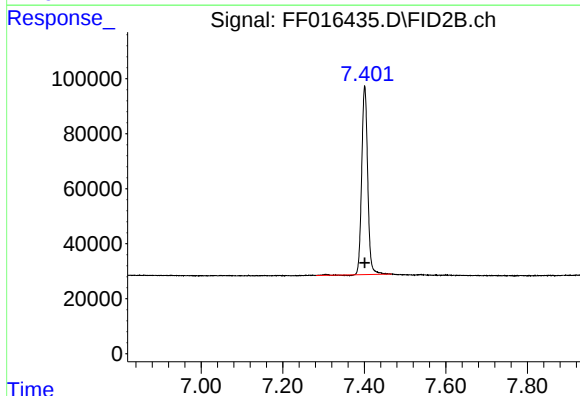
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 707668
Conc: 5.02 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



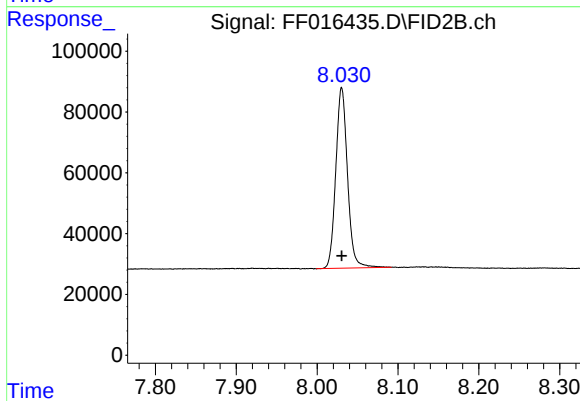
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 709232
Conc: 4.87 ug/ml



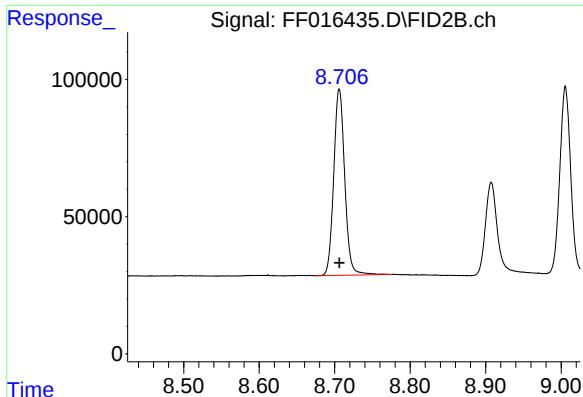
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.401 min
Delta R.T.: 0.000 min
Response: 700376
Conc: 4.76 ug/ml



#4 2-Bromonaphthalene (SURR)

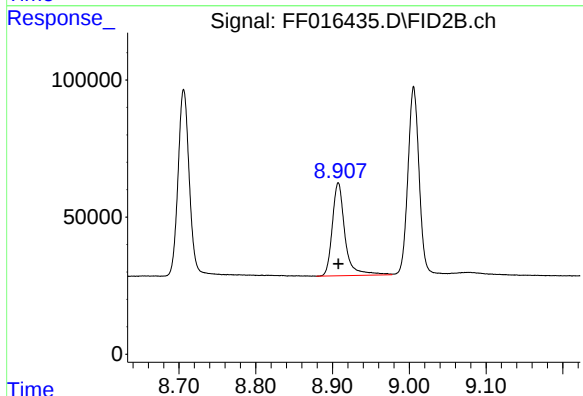
R.T.: 8.031 min
Delta R.T.: 0.000 min
Response: 598161
Conc: 4.78 ug/ml



#5 Acenaphthylene (C15.06)

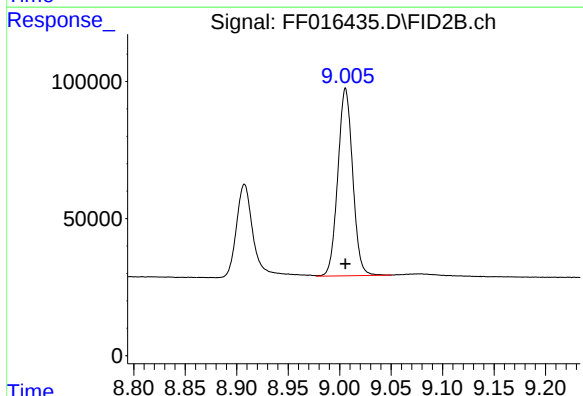
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 690062
Conc: 4.76 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



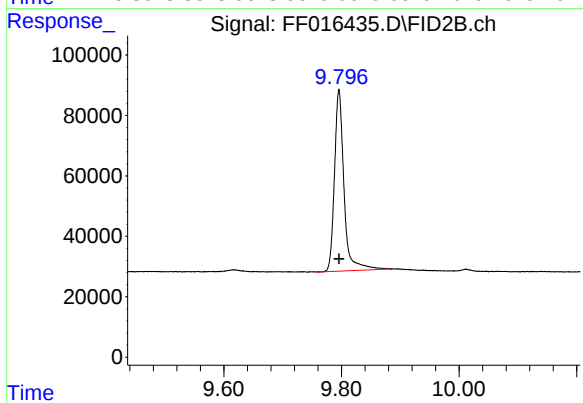
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.908 min
Delta R.T.: 0.000 min
Response: 388157
Conc: 4.60 ug/ml



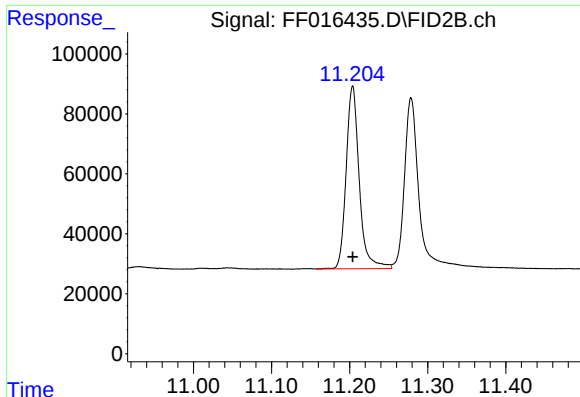
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 686883
Conc: 4.79 ug/ml



#8 Fluorene (C16.55)

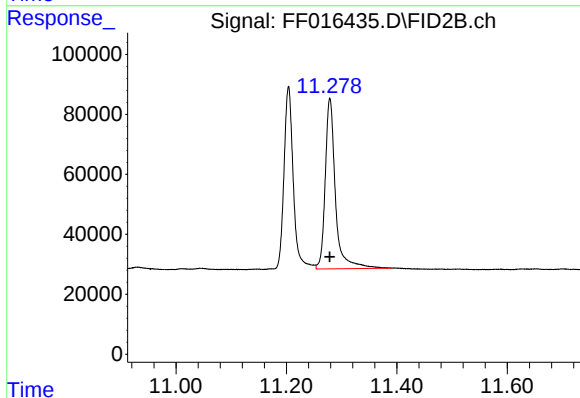
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 675559
Conc: 4.68 ug/ml



#9 Phenanthrene (C19.36)

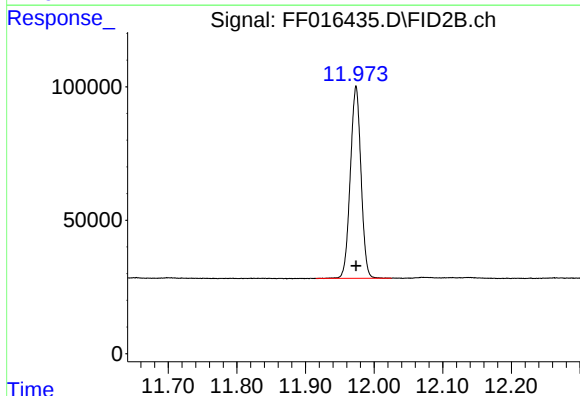
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 711069
Conc: 4.88 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



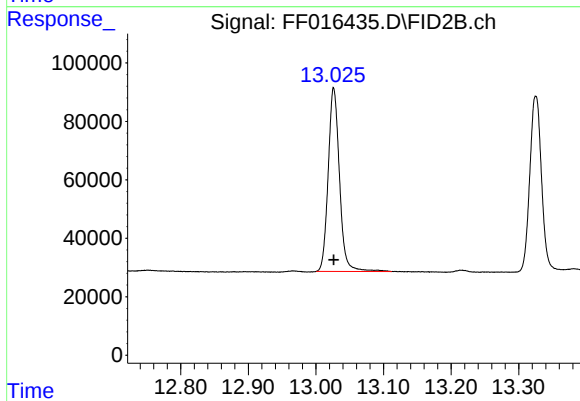
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 728208
Conc: 5.09 ug/ml



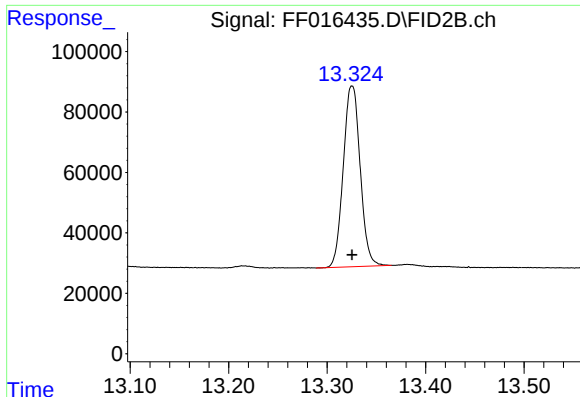
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min
Delta R.T.: 0.000 min
Response: 777849
Conc: 5.10 ug/ml



#12 Fluoranthene (C21.85)

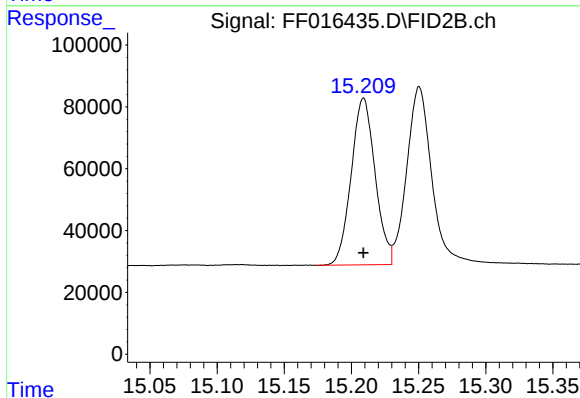
R.T.: 13.026 min
Delta R.T.: 0.000 min
Response: 730906
Conc: 5.00 ug/ml



#13 Pyrene (C20.8)

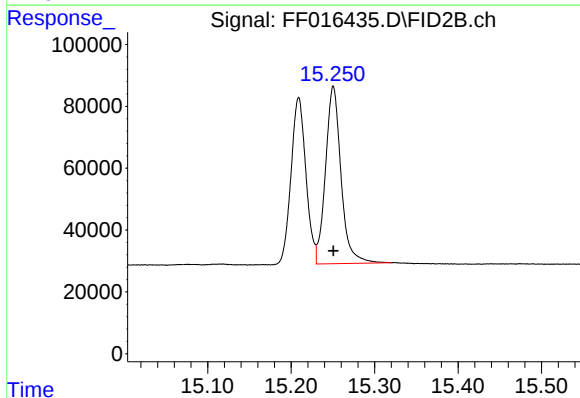
R.T.: 13.325 min
Delta R.T.: 0.000 min
Response: 712306
Conc: 4.97 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



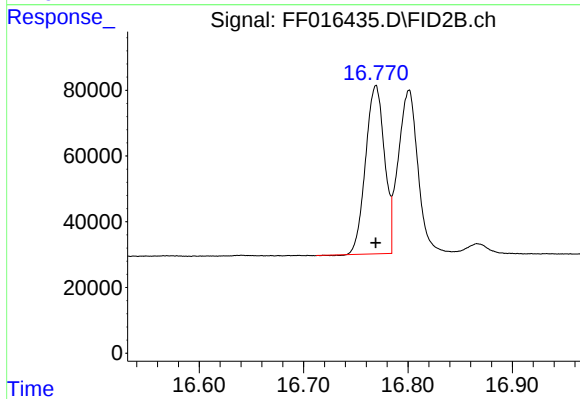
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.209 min
Delta R.T.: 0.000 min
Response: 667130
Conc: 4.90 ug/ml



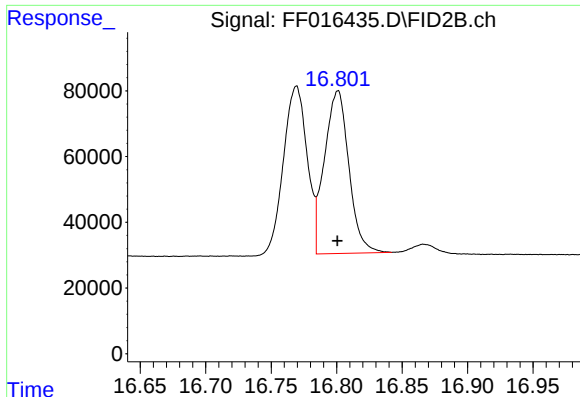
#15 Chrysene (C27.41)

R.T.: 15.251 min
Delta R.T.: 0.000 min
Response: 742138
Conc: 5.20 ug/ml



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

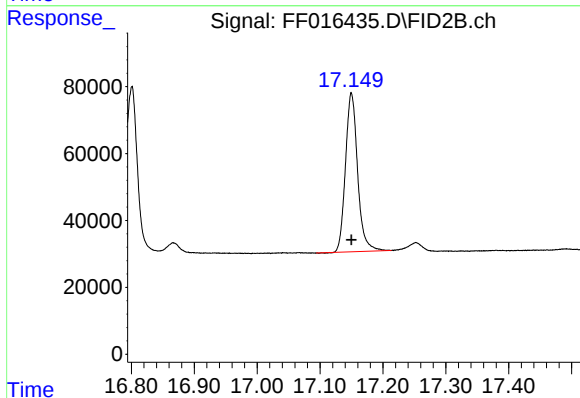
R.T.: 16.769 min
Delta R.T.: 0.000 min
Response: 643824
Conc: 4.90 ug/ml



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

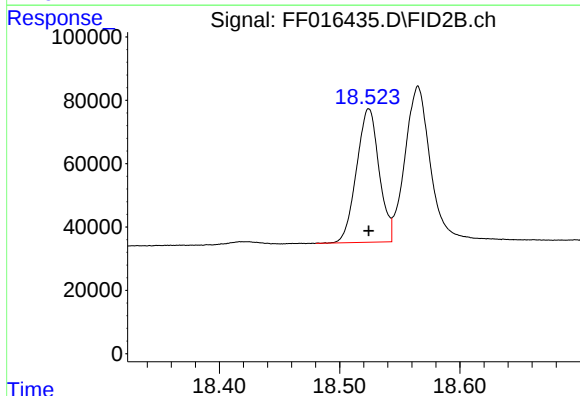
R.T.: 16.801 min
Delta R.T.: 0.000 min
Response: 642318
Conc: 5.10 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



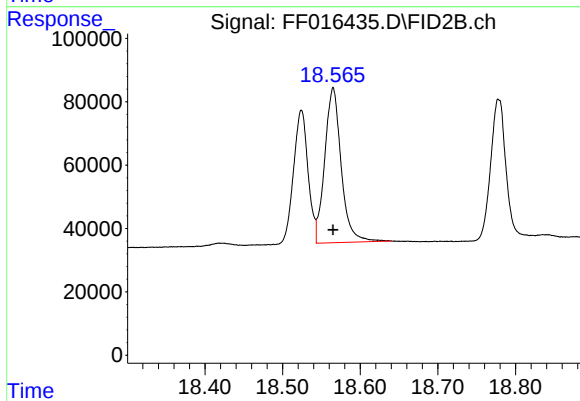
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.150 min
Delta R.T.: 0.000 min
Response: 635965
Conc: 4.98 ug/ml



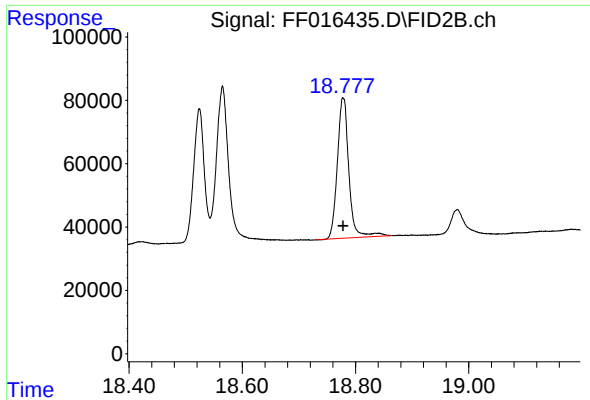
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

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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

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-Fluorobiphenyl (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

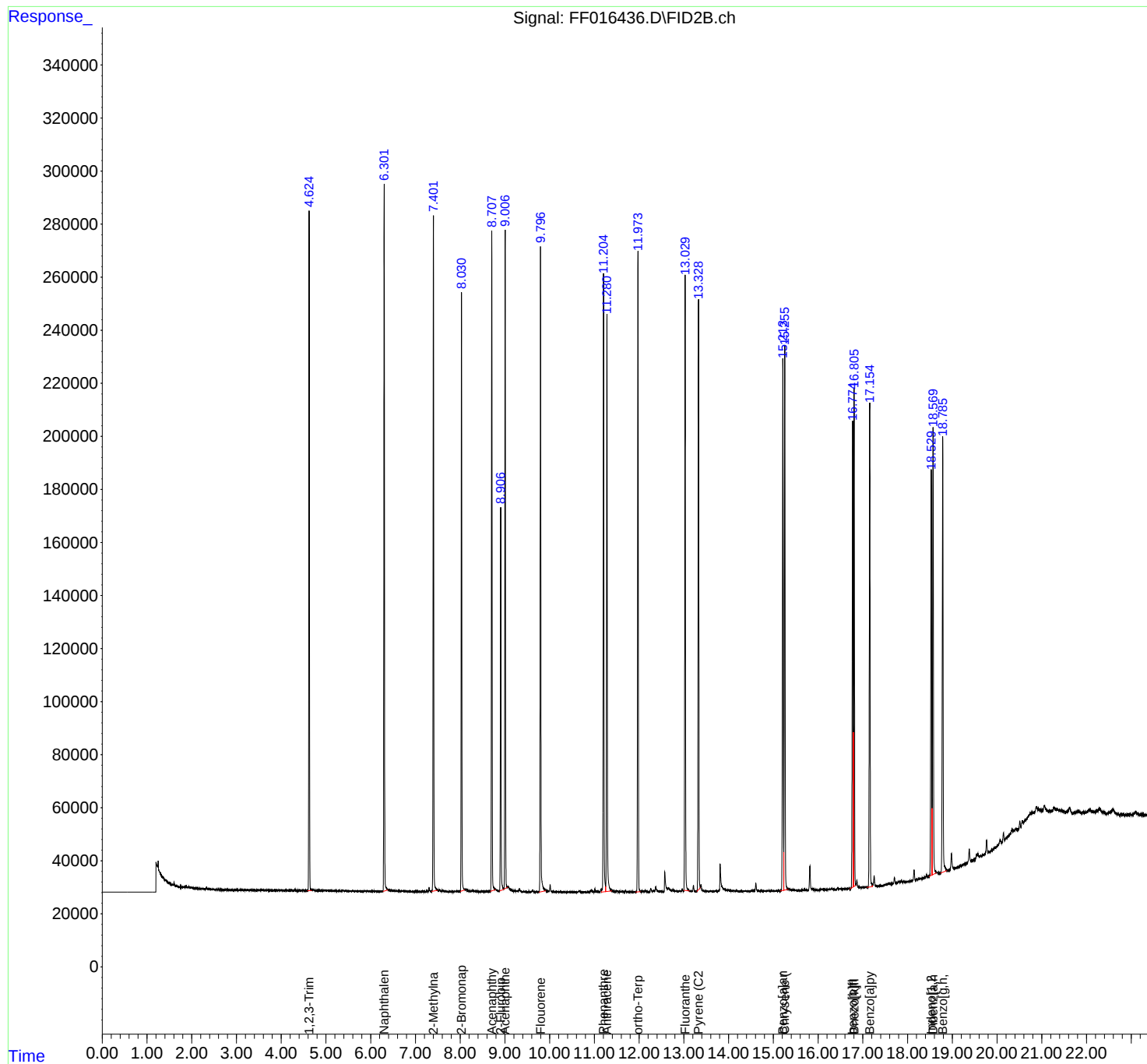
(m)=manual int.

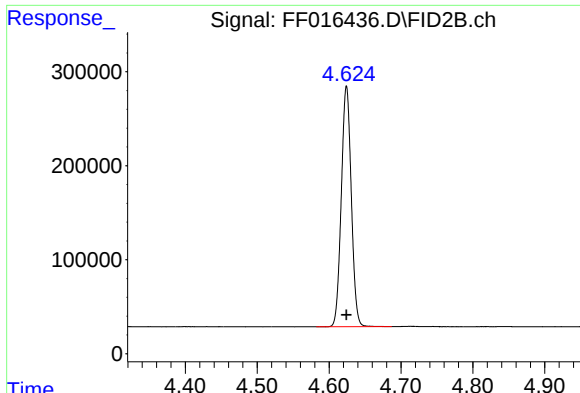
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092425AR\
Data File : FF016436.D
Signal(s) : FID2B.ch
Acq On : 24 Sep 2025 16:28
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 76 Sample Multiplier: 1

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)

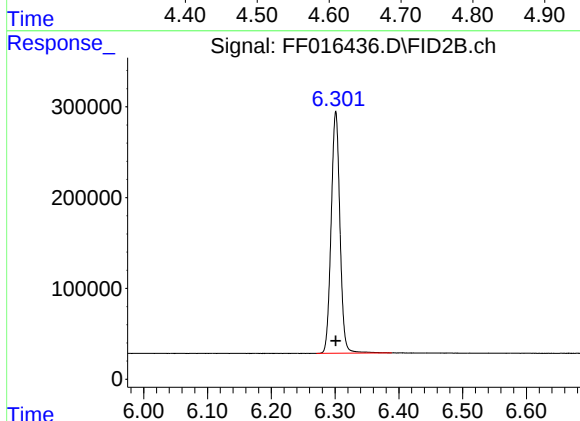
R.T.: 4.624 min
Delta R.T.: 0.000 min
Response: 2465539
Conc: 17.49 ug/ml

Instrument :

FID_F

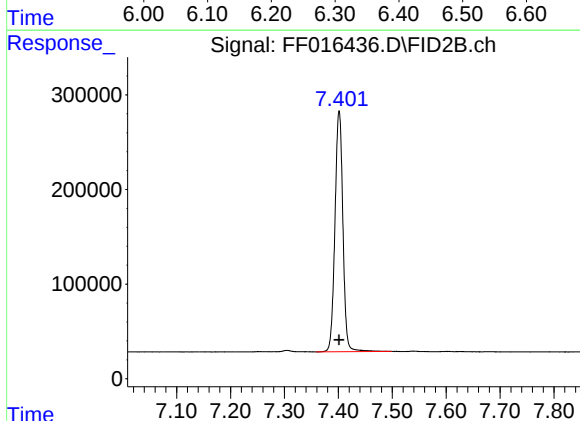
ClientSampleId :

20 PPM AROMATIC HC STD ICV



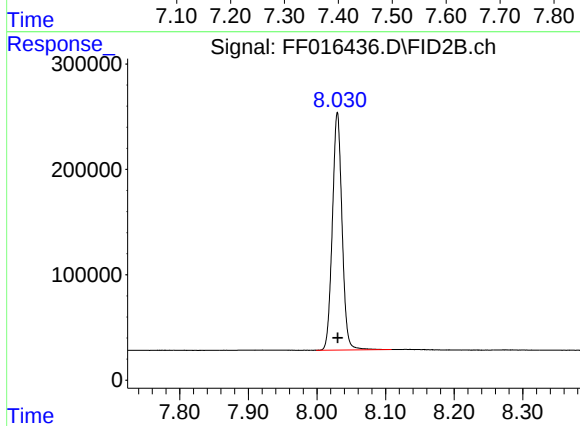
#2 Naphthalene (C11.7)

R.T.: 6.301 min
Delta R.T.: 0.000 min
Response: 2552694
Conc: 17.52 ug/ml



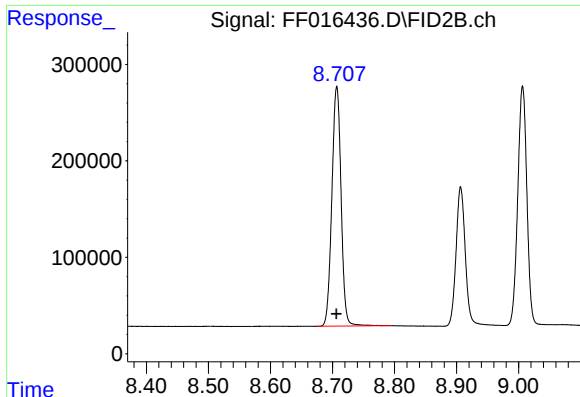
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min
Delta R.T.: 0.000 min
Response: 2602818
Conc: 17.68 ug/ml



#4 2-Bromonaphthalene (SURR)

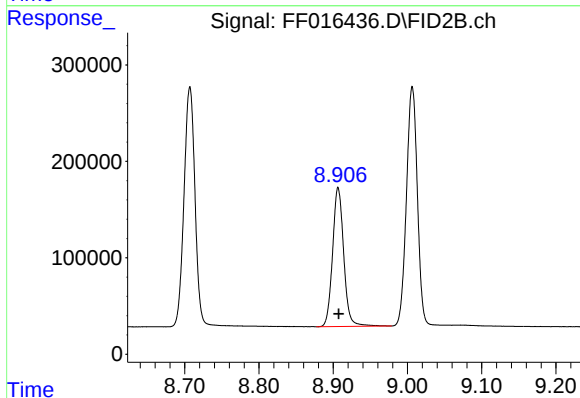
R.T.: 8.030 min
Delta R.T.: 0.000 min
Response: 2211521
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

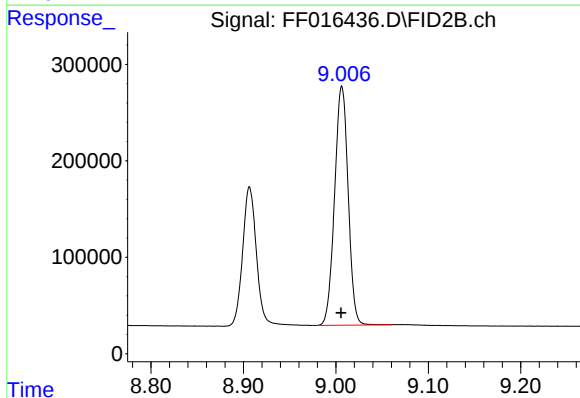
R.T.: 8.707 min
Delta R.T.: 0.000 min
Response: 2564508
Conc: 17.70 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



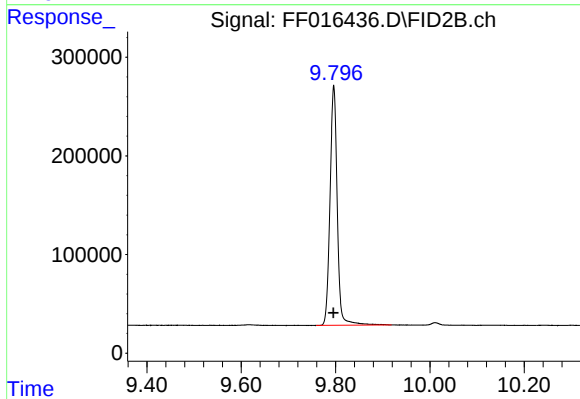
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.907 min
Delta R.T.: 0.000 min
Response: 1500863
Conc: 17.80 ug/ml



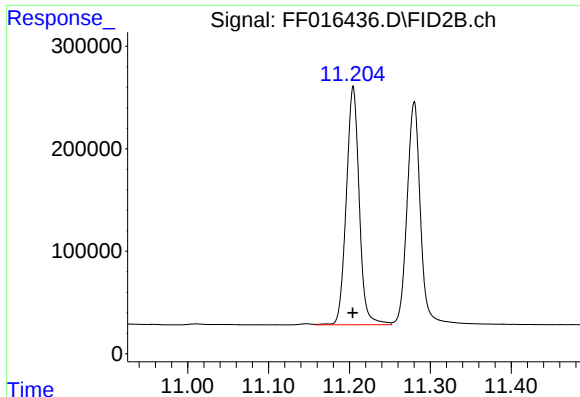
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 2527766
Conc: 17.63 ug/ml



#8 Fluorene (C16.55)

R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 2582519
Conc: 17.88 ug/ml



#9 Phenanthrene (C19.36)

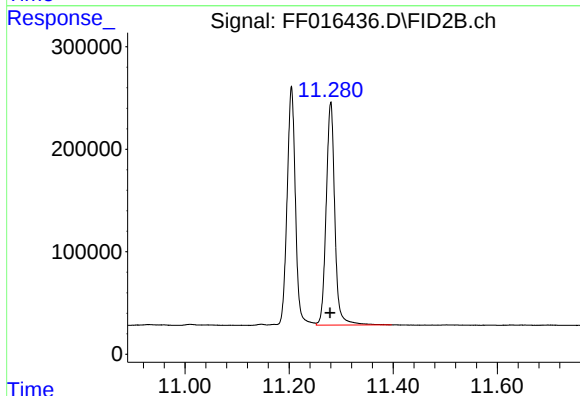
R.T.: 11.205 min
Delta R.T.: 0.000 min
Response: 2584516
Conc: 17.72 ug/ml

Instrument :

FID_F

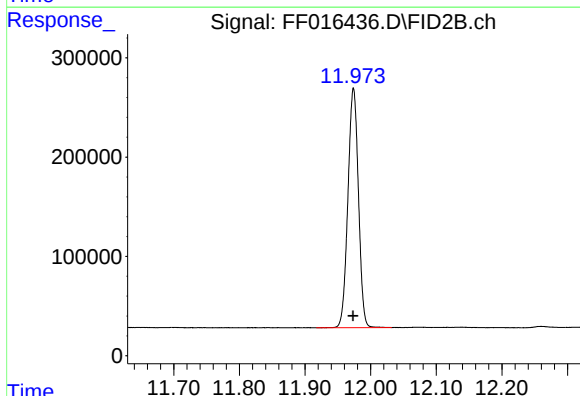
ClientSampleId :

20 PPM AROMATIC HC STD ICV



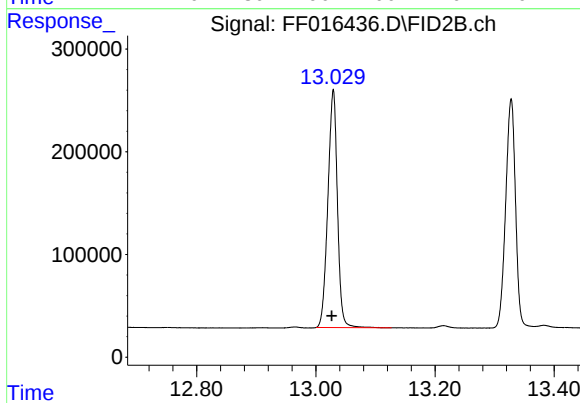
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 2510342
Conc: 17.55 ug/ml



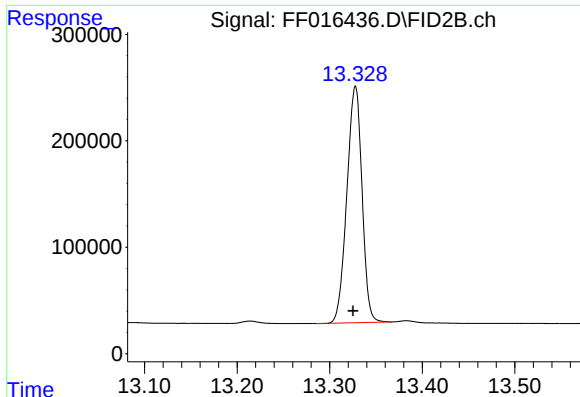
#11 ortho-Terphenyl (SURR)

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)

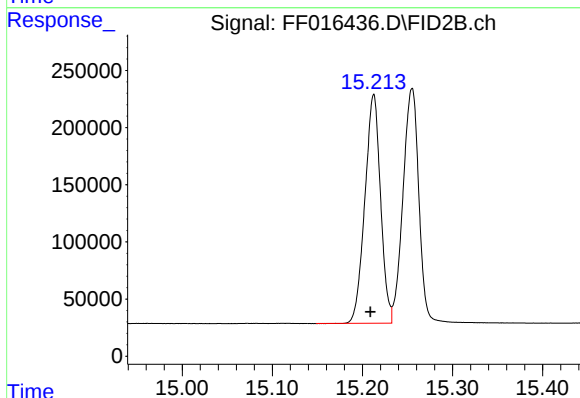
R.T.: 13.328 min
Delta R.T.: 0.002 min
Response: 2529762
Conc: 17.65 ug/ml

Instrument :

FID_F

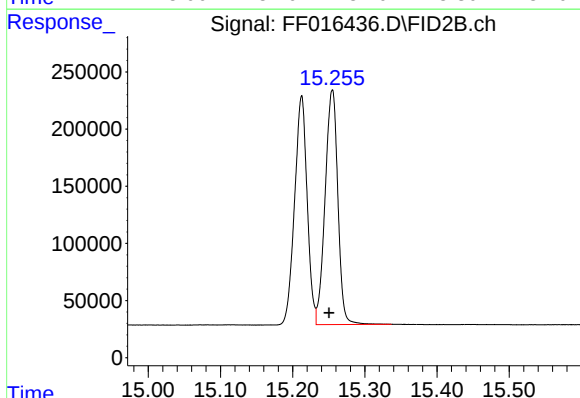
ClientSampleId :

20 PPM AROMATIC HC STD ICV



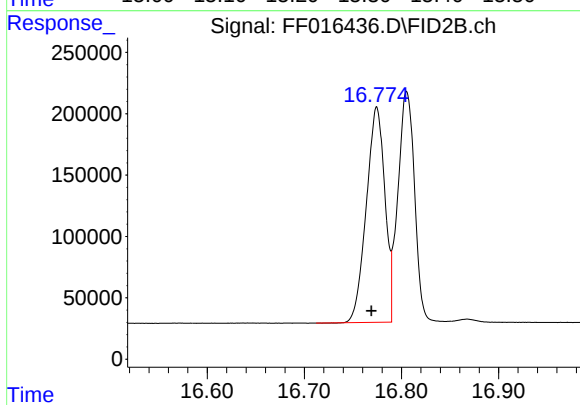
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 2418959
Conc: 17.77 ug/ml



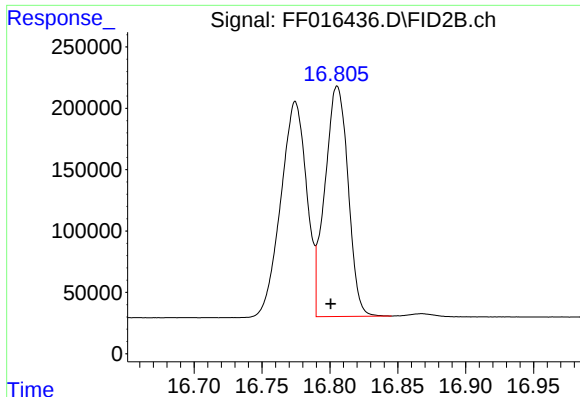
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.004 min
Response: 2515757
Conc: 17.64 ug/ml



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

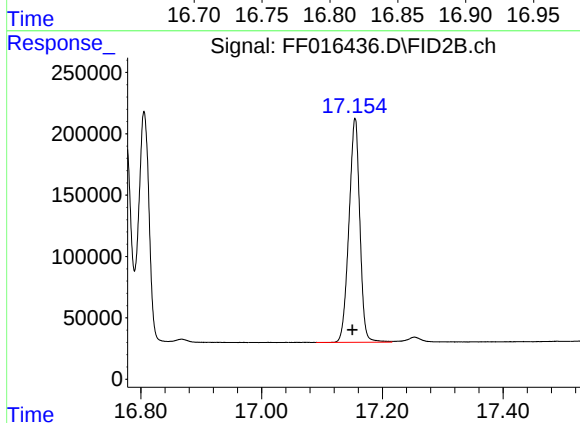
R.T.: 16.775 min
Delta R.T.: 0.005 min
Response: 2326602
Conc: 17.71 ug/ml



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

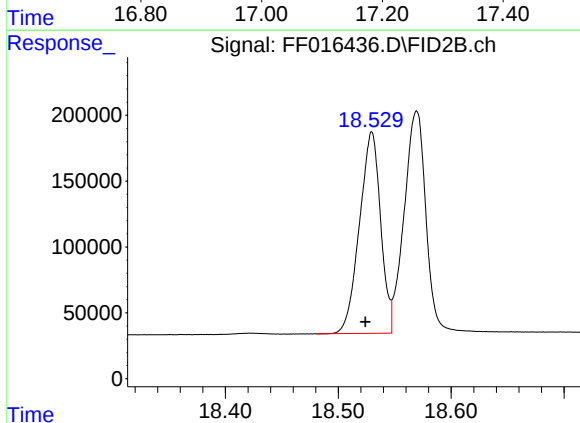
R.T.: 16.806 min
Delta R.T.: 0.005 min
Response: 2231035
Conc: 17.72 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



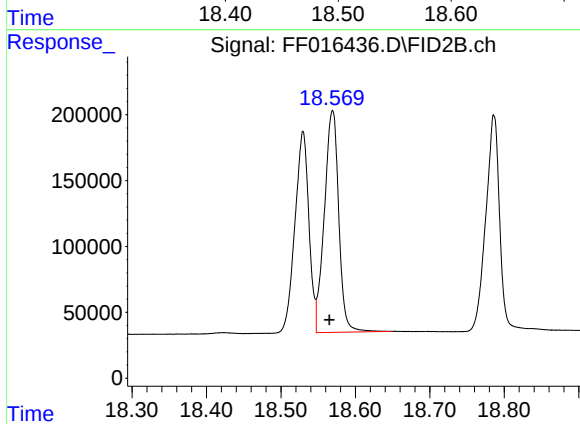
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min
Delta R.T.: 0.005 min
Response: 2275638
Conc: 17.82 ug/ml



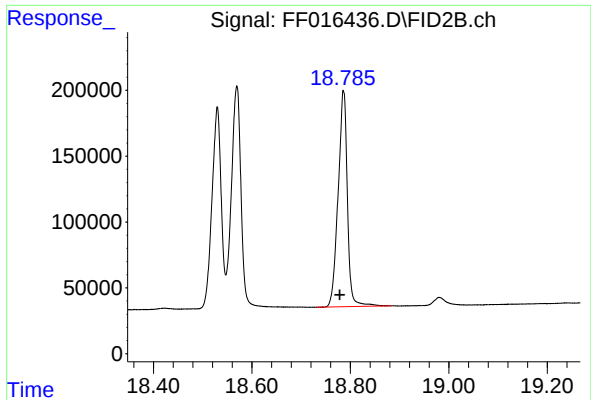
#19 Indeno[1,2,3-cd]pyrene (C35.01)

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

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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

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056045.D

Aliphatic C12-C16	5652856.000	40.000	6.947	10.396	141321.400	153376.491	7.860
Aliphatic C16-C21	9543106.000	60.000	10.397	13.773	159051.767	165879.737	4.116
Aliphatic C21-C28	11632420.000	80.000	13.774	17.443	145405.250	148527.151	2.102
Aliphatic C28-C40	15735127.000	120.000	17.444	22.449	131126.058	136251.923	3.762
Aliphatic EPH	49968663.000	360.000	3.315	22.449	138801.842	146449.789	5.222
Aliphatic C9-C12	7405154.000	60.000	3.315	6.946	123419.233	140027.957	11.861

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	29 Sep 2025 14:51
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056045.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	7405154.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	5652856.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	9543106.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	11632420.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	15735127.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	49968663.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
 Data File : FE056045.D
 Signal(s) : FID1B.ch
 Acq On : 29 Sep 2025 14:51
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
 Quant Time: Sep 30 00:27:40 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.073	3631951	19.355 ug/ml
Spiked Amount 50.000		Recovery =	38.71%
12) S 1-chlorooctadecane (S...	13.510	2778384	19.907 ug/ml
Spiked Amount 50.000		Recovery =	39.81%
Target Compounds			
1) T n-Nonane (C9)	3.415	2399386	17.515 ug/ml
2) T n-Decane (C10)	4.673	2449352	17.550 ug/ml
3) T A~Naphthalene (C11.7)	6.392	2909611	18.223 ug/ml
4) T n-Dodecane (C12)	6.847	2556416	17.811 ug/ml
5) T A~2-methylnaphthalene...	7.492	2880483	18.522 ug/ml
6) T n-Tetradecane (C14)	8.683	2694482	18.225 ug/ml
7) T n-Hexadecane (C16)	10.297	2958374	18.617 ug/ml
8) T n-Octadecane (C18)	11.746	3193721	18.855 ug/ml
10) T n-Eicosane (C20)	13.061	3201634	19.314 ug/ml
11) T n-Heneicosane (C21)	13.675	3147751	19.372 ug/ml
13) T n-Docosane (C22)	14.263	3123976	19.550 ug/ml
14) T n-Tetracosane (C24)	15.370	3016987	19.799 ug/ml
15) T n-Hexacosane (C26)	16.394	2798837	19.623 ug/ml
16) T n-Octacosane (C28)	17.346	2692620	19.329 ug/ml
17) T n-Tricontane (C30)	18.236	2807440	18.946 ug/ml
18) T n-Dotriacontane (C32)	19.069	2842806	19.054 ug/ml
19) T n-Tetratriacontane (C34)	19.855	2739796	19.369 ug/ml
20) T n-Hexatriacontane (C36)	20.596	2560757	19.948 ug/ml
21) T n-Octatriacontane (C38)	21.371	2346046	17.862 ug/mlm
22) T n-Tetracontane (C40)	22.357	2438282	20.495 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056045.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 14:51
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

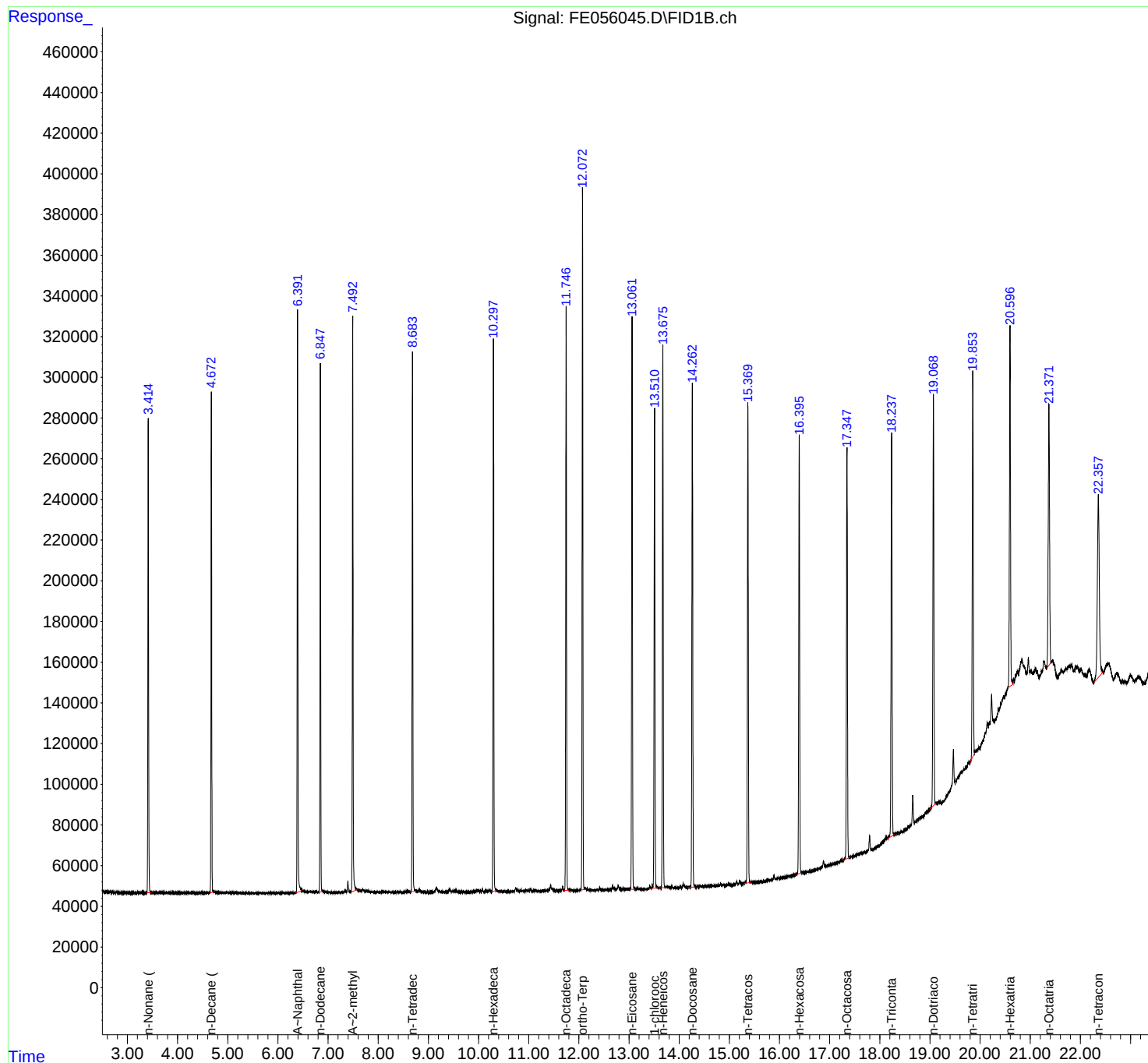
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

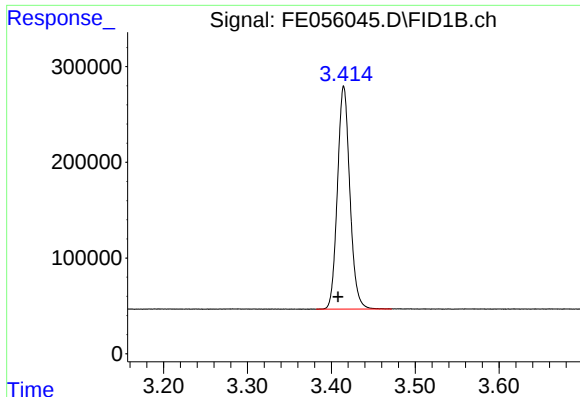
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 00:27:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





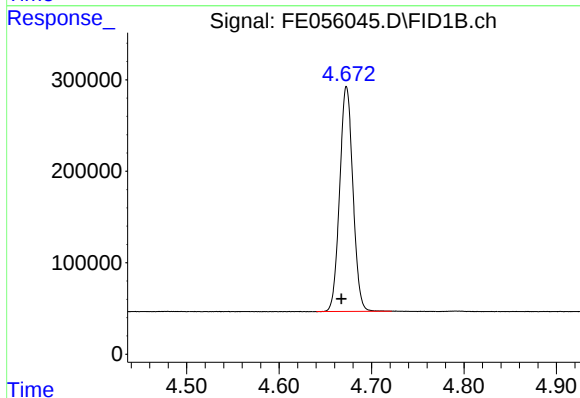
#1 n-Nonane (C9)

R.T.: 3.415 min
Delta R.T.: 0.007 min
Response: 2399386
Conc: 17.51 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

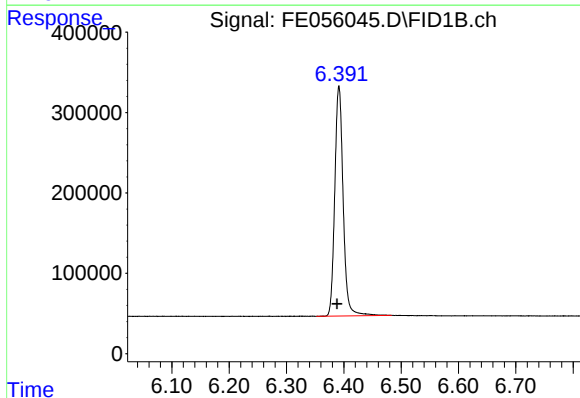
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



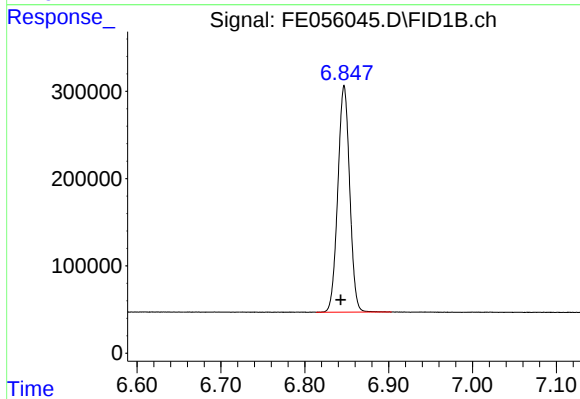
#2 n-Decane (C10)

R.T.: 4.673 min
Delta R.T.: 0.006 min
Response: 2449352
Conc: 17.55 ug/ml



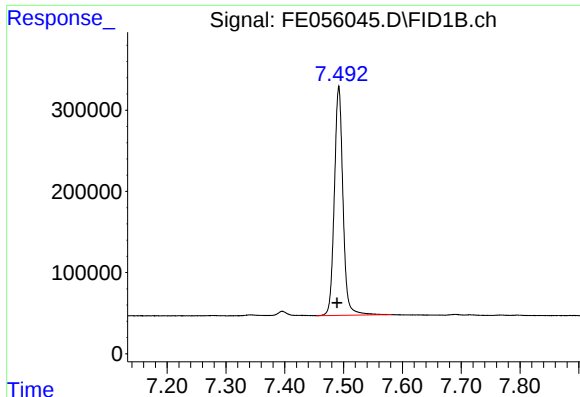
#3 A~Naphthalene (C11.7)

R.T.: 6.392 min
Delta R.T.: 0.003 min
Response: 2909611
Conc: 18.22 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.847 min
Delta R.T.: 0.004 min
Response: 2556416
Conc: 17.81 ug/ml



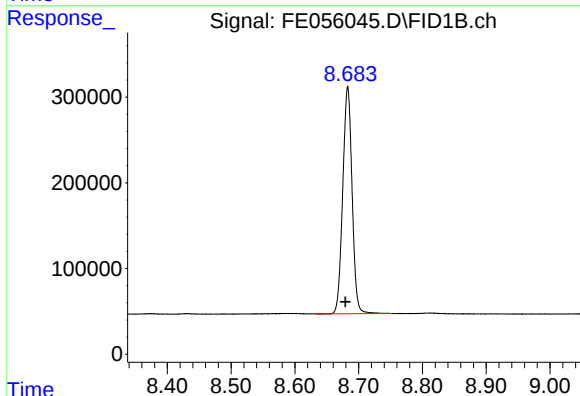
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min
Delta R.T.: 0.003 min
Response: 2880483
Conc: 18.52 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

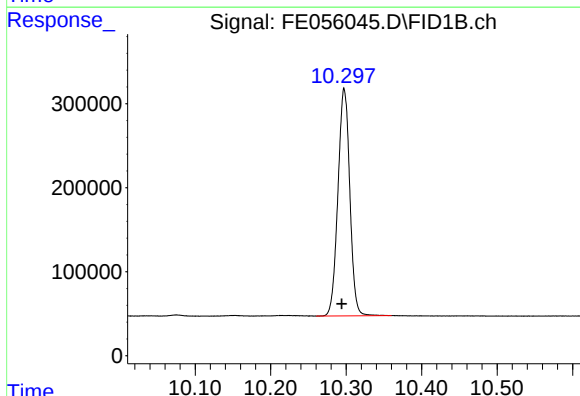
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



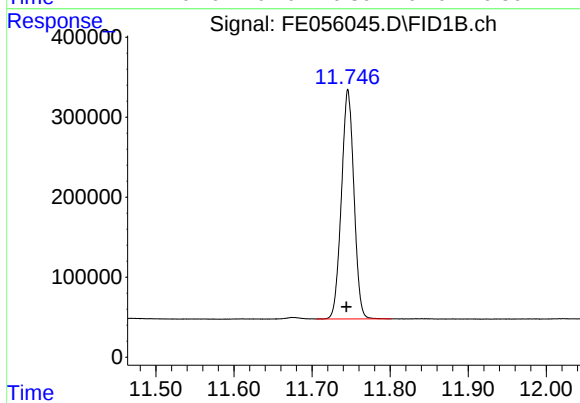
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.003 min
Response: 2694482
Conc: 18.23 ug/ml



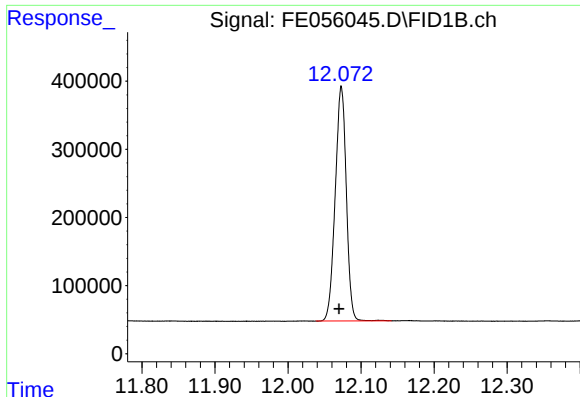
#7 n-Hexadecane (C16)

R.T.: 10.297 min
Delta R.T.: 0.003 min
Response: 2958374
Conc: 18.62 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.746 min
Delta R.T.: 0.002 min
Response: 3193721
Conc: 18.85 ug/ml



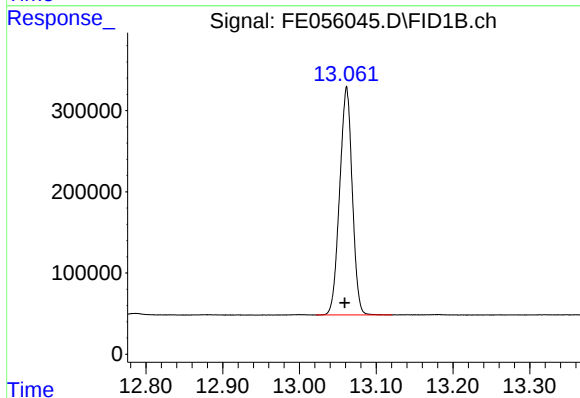
#9 ortho-Terphenyl (SURR)

R.T.: 12.073 min
Delta R.T.: 0.003 min
Response: 3631951
Conc: 19.35 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

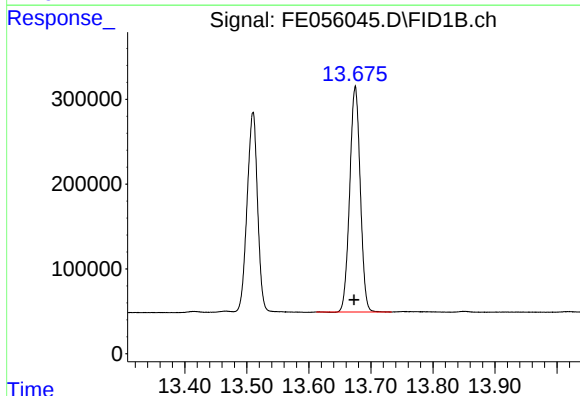
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



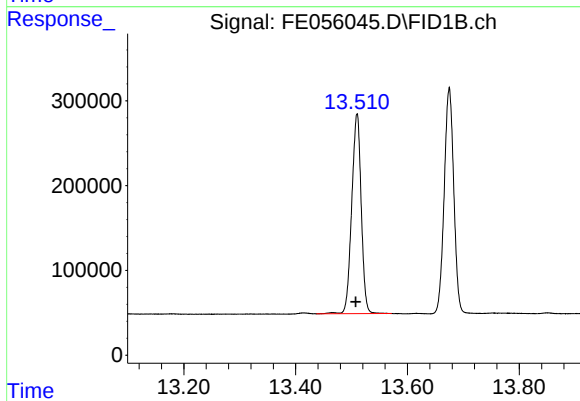
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.002 min
Response: 3201634
Conc: 19.31 ug/ml



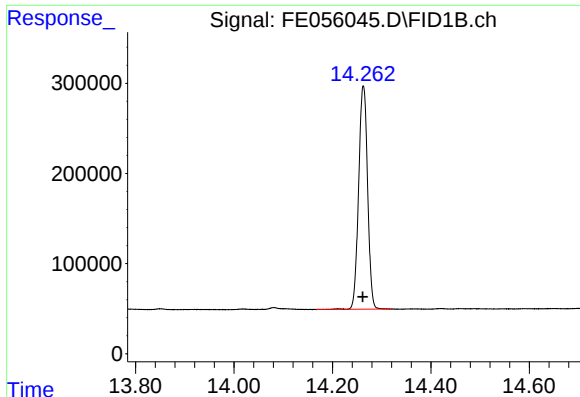
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.002 min
Response: 3147751
Conc: 19.37 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min
Delta R.T.: 0.002 min
Response: 2778384
Conc: 19.91 ug/ml



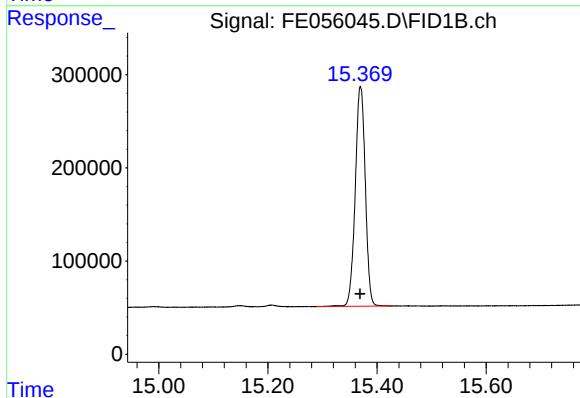
#13 n-Docosane (C22)

R.T.: 14.263 min
Delta R.T.: 0.001 min
Response: 3123976
Conc: 19.55 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

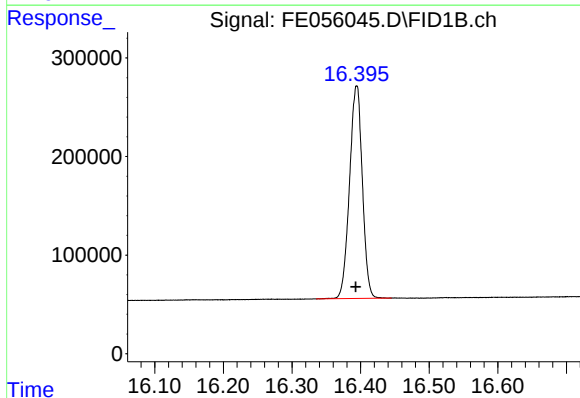
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



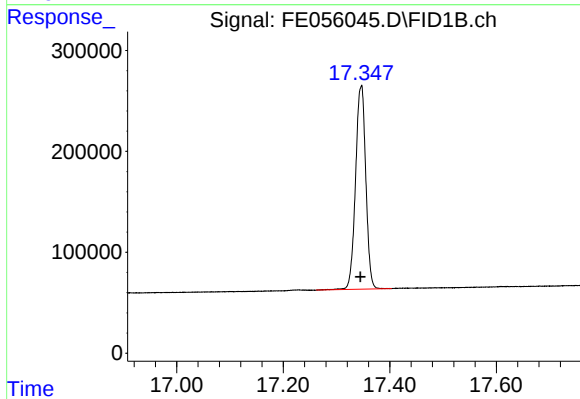
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.001 min
Response: 3016987
Conc: 19.80 ug/ml



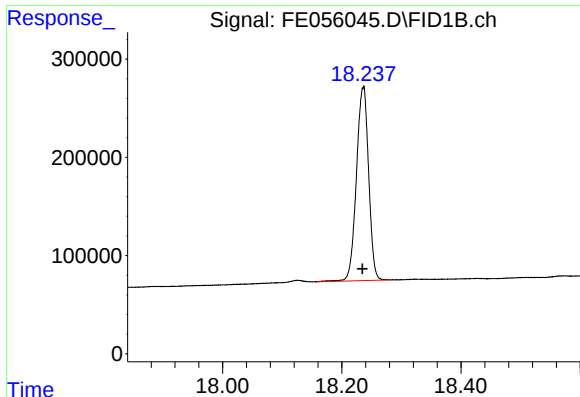
#15 n-Hexacosane (C26)

R.T.: 16.394 min
Delta R.T.: 0.001 min
Response: 2798837
Conc: 19.62 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min
Delta R.T.: 0.001 min
Response: 2692620
Conc: 19.33 ug/ml



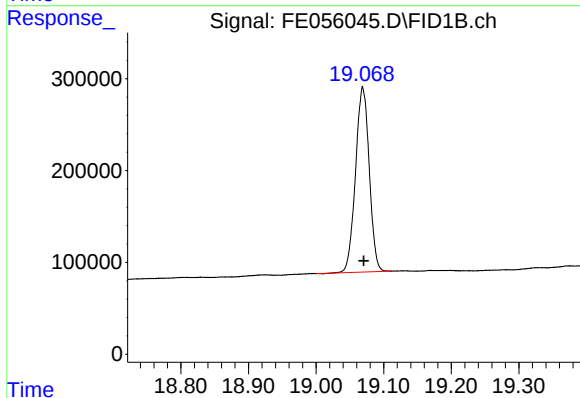
#17 n-Tricontane (C30)

R.T.: 18.236 min
Delta R.T.: 0.001 min
Response: 2807440
Conc: 18.95 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

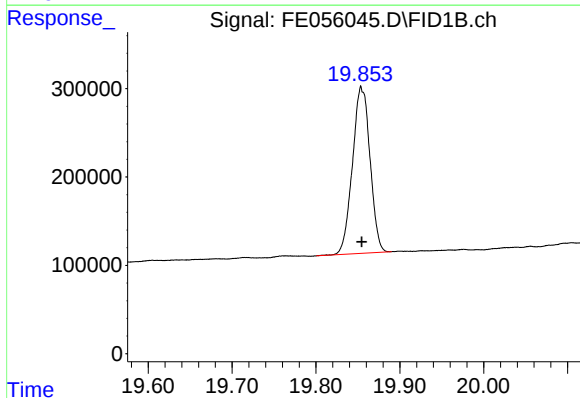
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



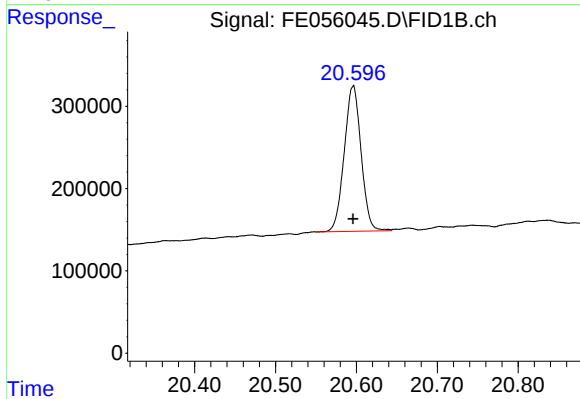
#18 n-Dotriacontane (C32)

R.T.: 19.069 min
Delta R.T.: -0.001 min
Response: 2842806
Conc: 19.05 ug/ml



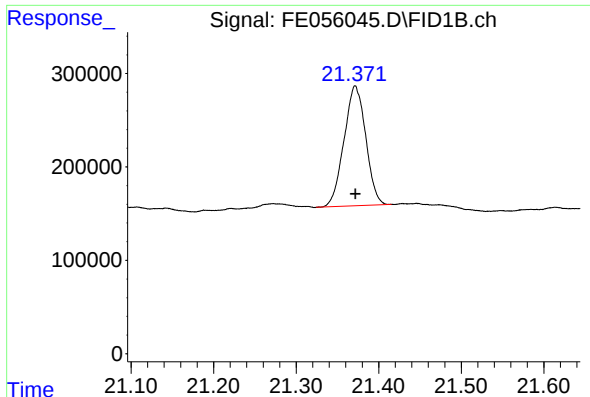
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 2739796
Conc: 19.37 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 2560757
Conc: 19.95 ug/ml



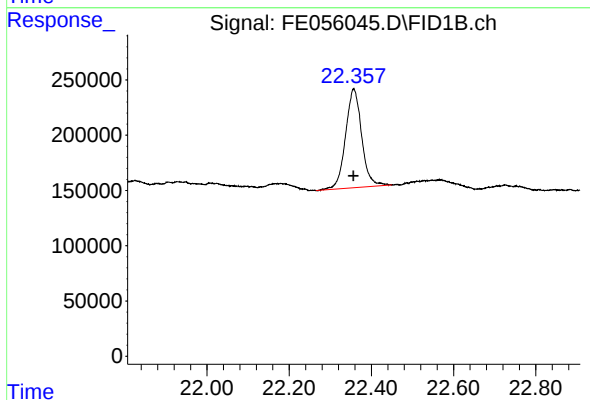
#21 n-Octatriacontane (C38)

R.T.: 21.371 min
Delta R.T.: 0.000 min
Response: 2346046
Conc: 17.86 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.357 min
Delta R.T.: 0.000 min
Response: 2438282
Conc: 20.50 ug/ml m

rteres.txt

Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056045.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 14:51
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.415	3.382	3.472	BB	232989	2399386	66.06%	3.861%
2	4.673	4.640	4.722	BB	245614	2449352	67.44%	3.942%
3	6.392	6.352	6.483	BB	286179	2909611	80.11%	4.682%
4	6.847	6.813	6.903	BB	259489	2556416	70.39%	4.114%
5	7.492	7.453	7.582	BB	281820	2880483	79.31%	4.636%
6	8.683	8.633	8.752	BB	265761	2694482	74.19%	4.336%
7	10.298	10.260	10.360	BB	271026	2958374	81.45%	4.761%
8	11.746	11.705	11.802	BB	285292	3193721	87.93%	5.140%
9	12.073	12.038	12.142	BB	344070	3631951	100.00%	5.845%
10	13.061	13.022	13.120	BB	281569	3201634	88.15%	5.152%
11	13.510	13.437	13.572	BB	236383	2778384	76.50%	4.471%
12	13.675	13.612	13.733	BB	266828	3147751	86.67%	5.066%
13	14.263	14.167	14.320	BB	247600	3123976	86.01%	5.027%
14	15.370	15.288	15.427	BB	235326	3016987	83.07%	4.855%
15	16.394	16.335	16.445	BB	216242	2798837	77.06%	4.504%
16	17.346	17.262	17.403	BB	202081	2692620	74.14%	4.333%
17	18.236	18.157	18.283	BB	196977	2807440	77.30%	4.518%
18	19.069	19.000	19.112	BB	201707	2842806	78.27%	4.575%
19	19.855	19.800	19.890	BB	183443	2739796	75.44%	4.409%
20	20.596	20.550	20.643	BV	176140	2560757	70.51%	4.121%
21	21.372	21.300	21.418	BV	127836	2307476	63.53%	3.713%
22	22.357	22.250	22.470	BV	89829	2446402	67.36%	3.937%
Sum of corrected areas:						62138639		

Aliphatic EPH 092425.M Tue Sep 30 05:46:10 2025

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056059.D

Aliphatic C12-C16	6419588.000	40.000	6.947	10.396	160489.700	153376.491	-4.638
Aliphatic C16-C21	10175583.000	60.000	10.397	13.773	169593.050	165879.737	-2.239
Aliphatic C21-C28	11474864.000	80.000	13.774	17.443	143435.800	148527.151	3.428
Aliphatic C28-C40	16792154.000	120.000	17.444	22.449	139934.617	136251.923	-2.703
Aliphatic EPH	53005288.000	360.000	3.315	22.449	147236.911	146449.789	-0.537
Aliphatic C9-C12	8143099.000	60.000	3.315	6.946	135718.317	140027.957	3.078

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	29 Sep 2025 22:59
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056059.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	8143099.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	6419588.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	10175583.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	11474864.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	16792154.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	53005288.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
 Data File : FE056059.D
 Signal(s) : FID1B.ch
 Acq On : 29 Sep 2025 22:59
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
 Quant Time: Sep 30 00:51:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.072	3783189	20.161 ug/ml
Spiked Amount 50.000		Recovery =	40.32%
12) S 1-chlorooctadecane (S...	13.509	2828662	20.268 ug/mlm
Spiked Amount 50.000		Recovery =	40.54%
Target Compounds			
1) T n-Nonane (C9)	3.415	2572800	18.781 ug/ml
2) T n-Decane (C10)	4.673	2683708	19.229 ug/ml
3) T A~Naphthalene (C11.7)	6.391	3231311	20.238 ug/ml
4) T n-Dodecane (C12)	6.846	2886591	20.112 ug/ml
5) T A~2-methylnaphthalene...	7.492	3198207	20.565 ug/ml
6) T n-Tetradecane (C14)	8.682	3075507	20.802 ug/ml
7) T n-Hexadecane (C16)	10.297	3344081	21.044 ug/ml
8) T n-Octadecane (C18)	11.746	3534237	20.865 ug/ml
10) T n-Eicosane (C20)	13.060	3383796	20.413 ug/ml
11) T n-Heneicosane (C21)	13.675	3257550	20.048 ug/ml
13) T n-Docosane (C22)	14.263	3155438	19.747 ug/ml
14) T n-Tetracosane (C24)	15.368	2939083	19.288 ug/ml
15) T n-Hexacosane (C26)	16.392	2709056	18.993 ug/ml
16) T n-Octacosane (C28)	17.345	2671287	19.176 ug/ml
17) T n-Tricontane (C30)	18.234	2878627	19.426 ug/ml
18) T n-Dotriacontane (C32)	19.068	3057418	20.492 ug/ml
19) T n-Tetratriacontane (C34)	19.853	2881015	20.368 ug/ml
20) T n-Hexatriacontane (C36)	20.595	2702037	21.049 ug/ml
21) T n-Octatriacontane (C38)	21.370	2698266	20.544 ug/ml
22) T n-Tetracontane (C40)	22.353	2574791	21.643 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056059.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 22:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

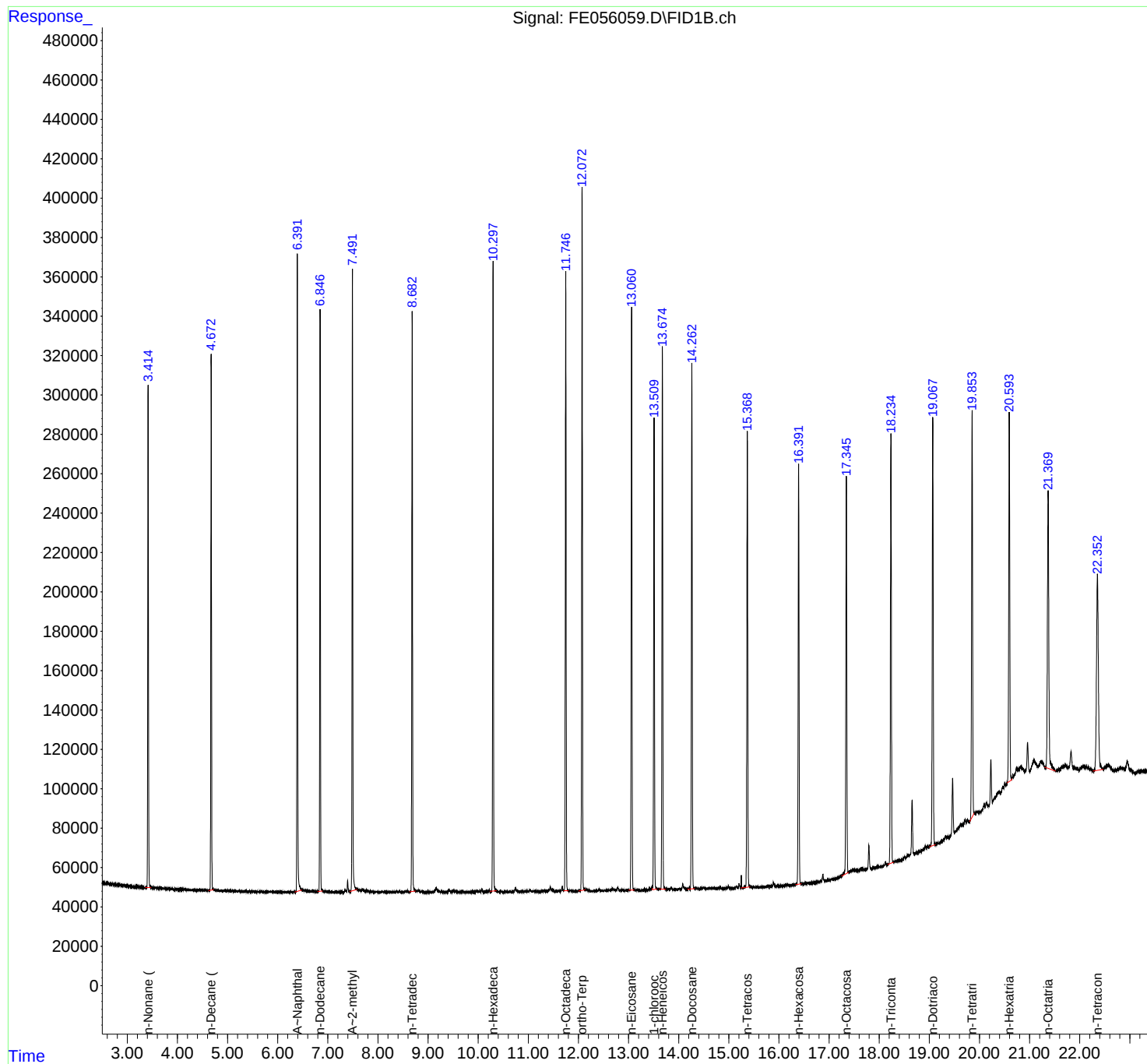
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

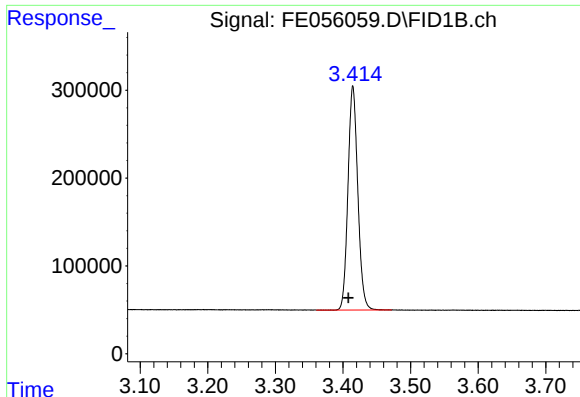
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 00:51:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





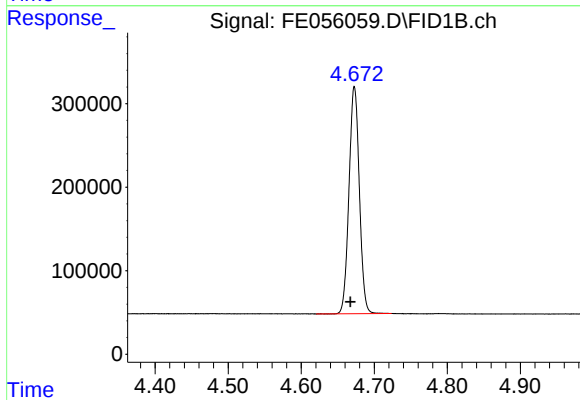
#1 n-Nonane (C9)

R.T.: 3.415 min
Delta R.T.: 0.007 min
Response: 2572800
Conc: 18.78 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

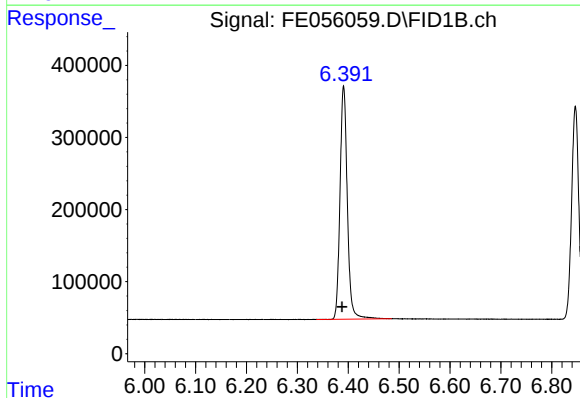
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



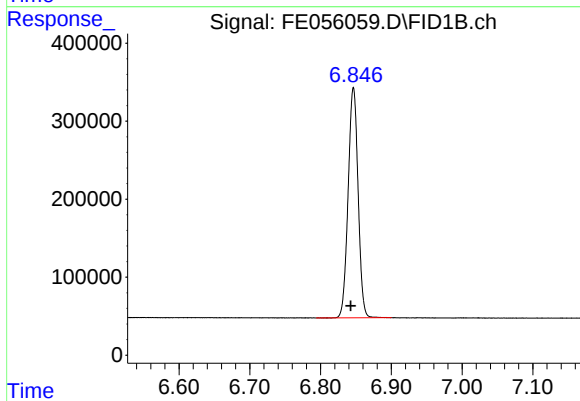
#2 n-Decane (C10)

R.T.: 4.673 min
Delta R.T.: 0.005 min
Response: 2683708
Conc: 19.23 ug/ml



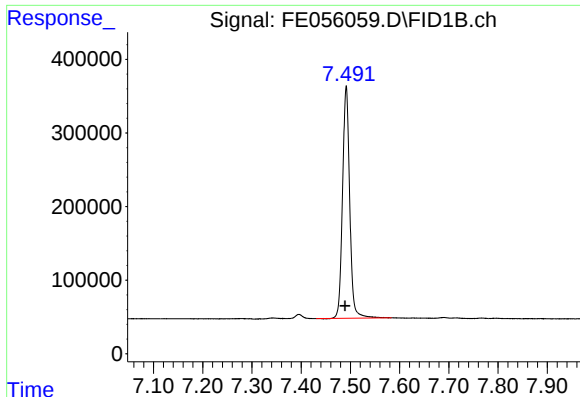
#3 A~Naphthalene (C11.7)

R.T.: 6.391 min
Delta R.T.: 0.003 min
Response: 3231311
Conc: 20.24 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.846 min
Delta R.T.: 0.004 min
Response: 2886591
Conc: 20.11 ug/ml



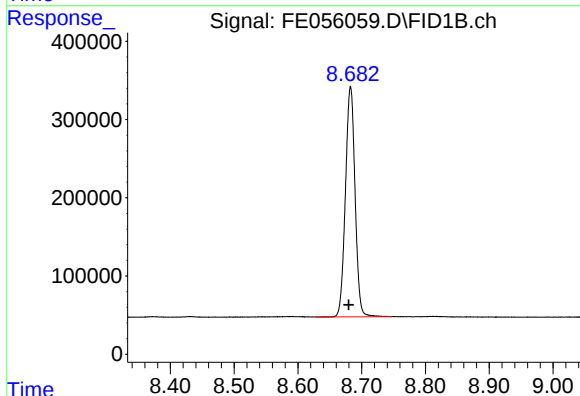
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min
Delta R.T.: 0.003 min
Response: 3198207
Conc: 20.56 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

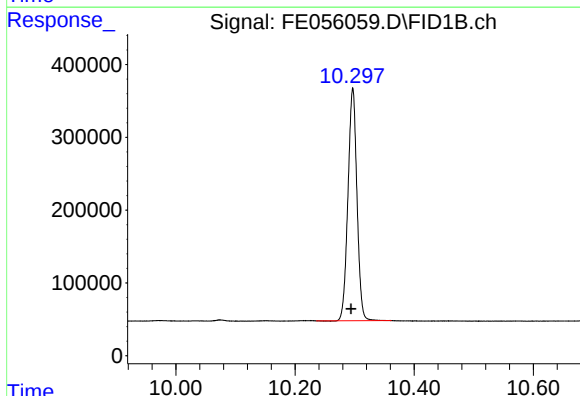
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



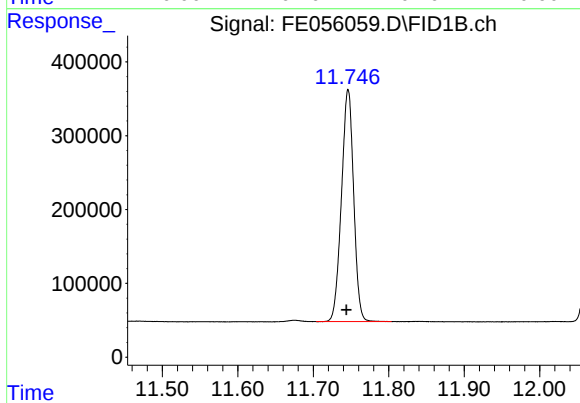
#6 n-Tetradecane (C14)

R.T.: 8.682 min
Delta R.T.: 0.003 min
Response: 3075507
Conc: 20.80 ug/ml



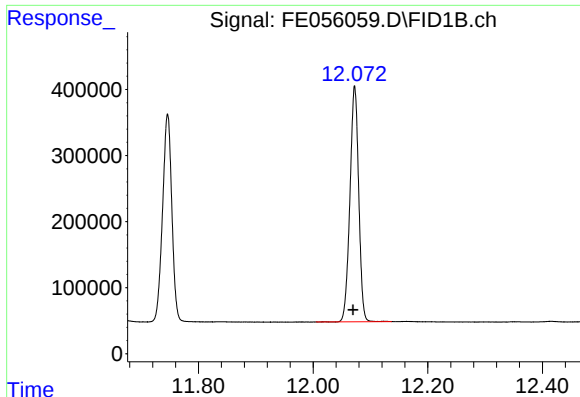
#7 n-Hexadecane (C16)

R.T.: 10.297 min
Delta R.T.: 0.003 min
Response: 3344081
Conc: 21.04 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.746 min
Delta R.T.: 0.002 min
Response: 3534237
Conc: 20.87 ug/ml



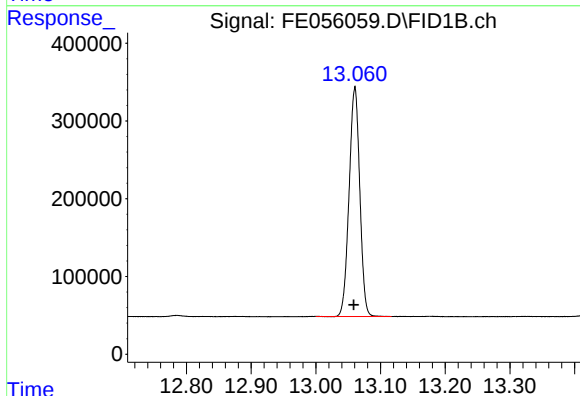
#9 ortho-Terphenyl (SURR)

R.T.: 12.072 min
Delta R.T.: 0.003 min
Response: 3783189
Conc: 20.16 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

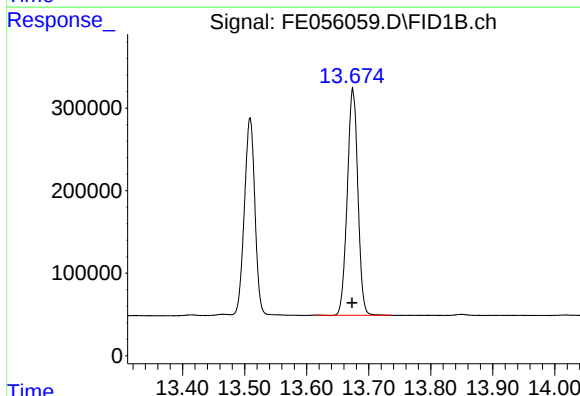
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



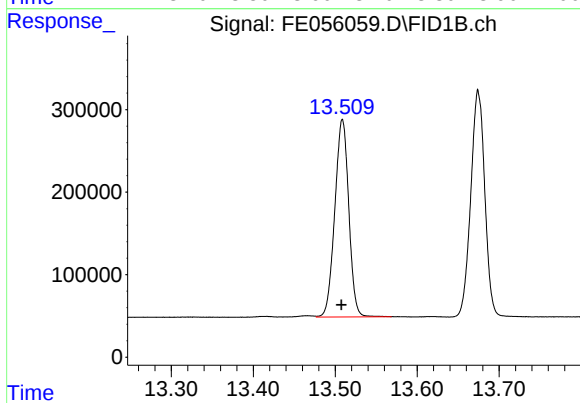
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.001 min
Response: 3383796
Conc: 20.41 ug/ml



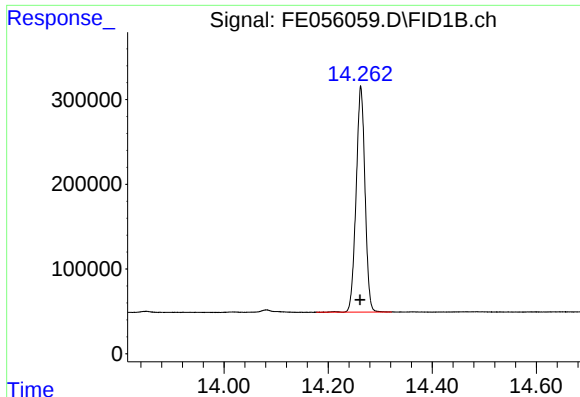
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.001 min
Response: 3257550
Conc: 20.05 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.509 min
Delta R.T.: 0.001 min
Response: 2828662
Conc: 20.27 ug/ml m



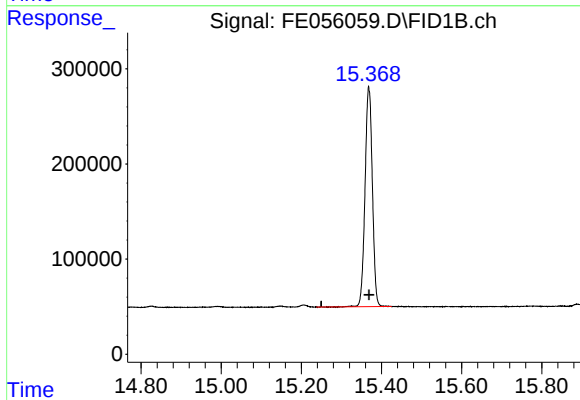
#13 n-Docosane (C22)

R.T.: 14.263 min
Delta R.T.: 0.001 min
Response: 3155438
Conc: 19.75 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

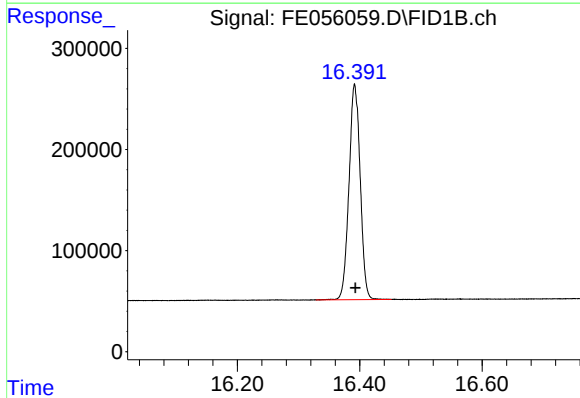
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



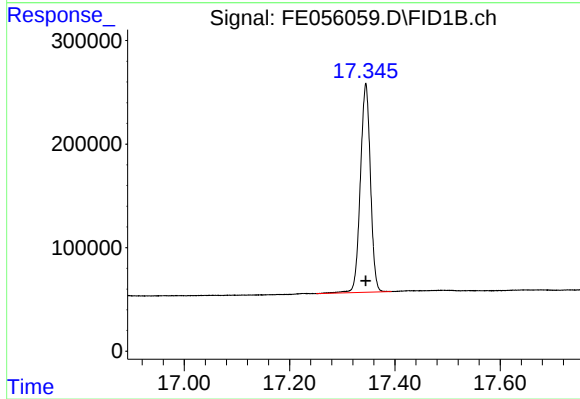
#14 n-Tetracosane (C24)

R.T.: 15.368 min
Delta R.T.: 0.000 min
Response: 2939083
Conc: 19.29 ug/ml



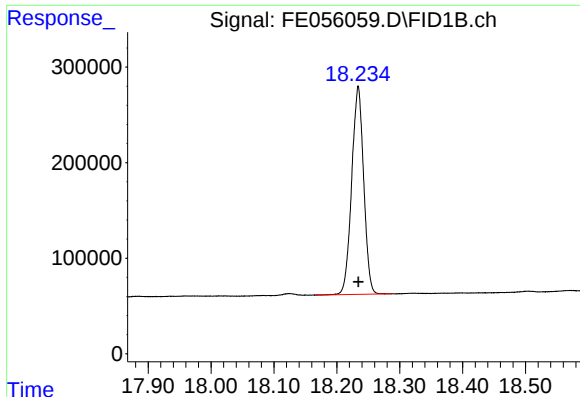
#15 n-Hexacosane (C26)

R.T.: 16.392 min
Delta R.T.: 0.000 min
Response: 2709056
Conc: 18.99 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 2671287
Conc: 19.18 ug/ml



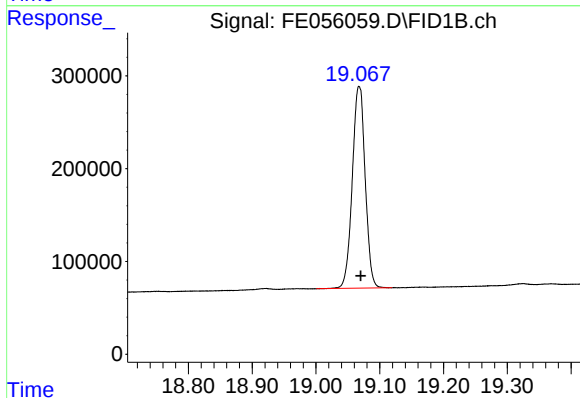
#17 n-Tricontane (C30)

R.T.: 18.234 min
Delta R.T.: 0.000 min
Response: 2878627
Conc: 19.43 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

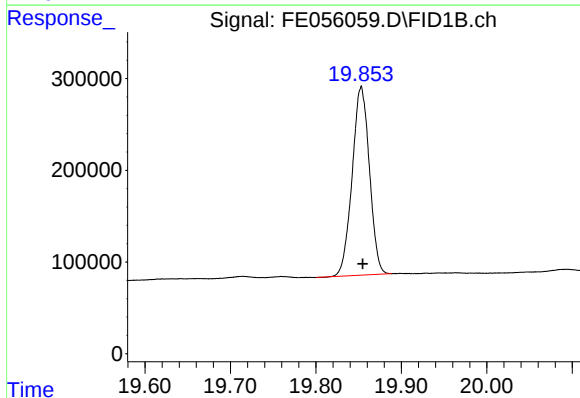
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



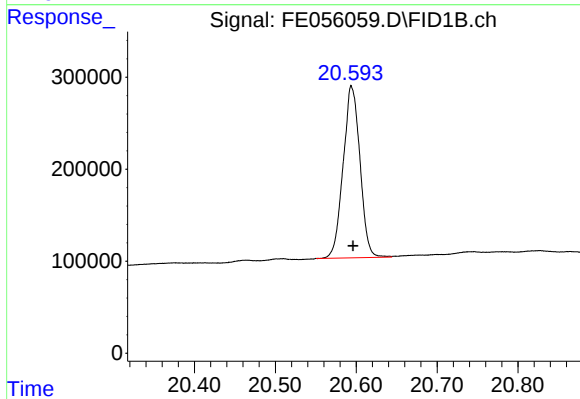
#18 n-Dotriacontane (C32)

R.T.: 19.068 min
Delta R.T.: -0.003 min
Response: 3057418
Conc: 20.49 ug/ml



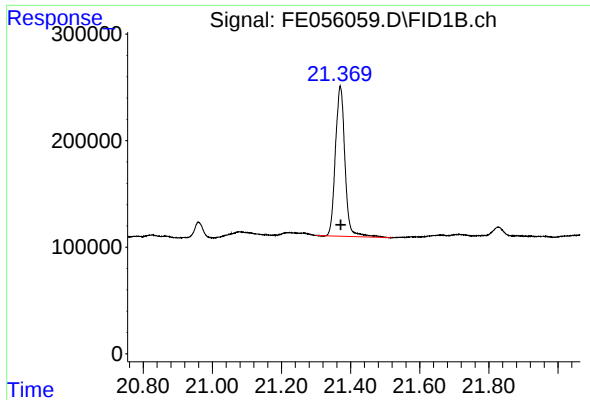
#19 n-Tetratriacontane (C34)

R.T.: 19.853 min
Delta R.T.: -0.002 min
Response: 2881015
Conc: 20.37 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.595 min
Delta R.T.: -0.001 min
Response: 2702037
Conc: 21.05 ug/ml



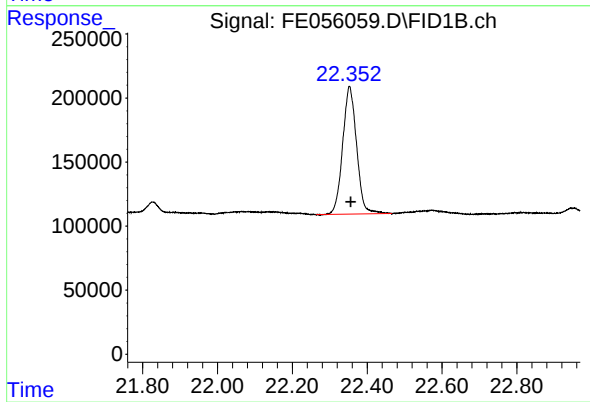
#21 n-Octatriacontane (C38)

R.T.: 21.370 min
Delta R.T.: -0.001 min
Response: 2698266
Conc: 20.54 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.353 min
Delta R.T.: -0.004 min
Response: 2574791
Conc: 21.64 ug/ml

rteres.txt

Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056059.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 22:59
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.415	3.360	3.472	BB	254651	2572800	68.01%	3.893%
2	4.673	4.620	4.724	BB	271462	2683708	70.94%	4.061%
3	6.391	6.337	6.485	BB	322979	3231311	85.41%	4.890%
4	6.846	6.794	6.900	BB	295881	2886591	76.30%	4.368%
5	7.492	7.430	7.584	BB	316363	3198207	84.54%	4.840%
6	8.683	8.629	8.747	BB	294465	3075507	81.29%	4.654%
7	10.297	10.235	10.362	BB	320102	3344081	88.39%	5.061%
8	11.746	11.704	11.804	BB	314510	3534237	93.42%	5.348%
9	12.072	12.005	12.137	BB	357586	3783189	100.00%	5.725%
10	13.060	13.000	13.117	BB	295208	3383796	89.44%	5.121%
11	13.509	13.375	13.572	BB	239601	2861588	75.64%	4.331%
12	13.675	13.615	13.737	BB	274318	3257550	86.11%	4.930%
13	14.263	14.177	14.322	BB	266763	3155438	83.41%	4.775%
14	15.369	15.237	15.425	BB	229578	2939083	77.69%	4.448%
15	16.392	16.329	16.452	BB	212334	2709056	71.61%	4.100%
16	17.345	17.250	17.394	BB	202207	2671287	70.61%	4.043%
17	18.234	18.167	18.287	BB	218308	2878627	76.09%	4.356%
18	19.068	19.000	19.119	BB	217775	3057418	80.82%	4.627%
19	19.853	19.800	19.889	BB	206530	2881015	76.15%	4.360%
20	20.595	20.550	20.644	BV	184071	2702037	71.42%	4.089%
21	21.370	21.300	21.519	BB	140401	2698266	71.32%	4.083%
22	22.353	22.264	22.465	BV	99832	2574791	68.06%	3.897%
Sum of corrected areas:						66079582		

Aliphatic EPH 092425.M Tue Sep 30 05:47:28 2025

Continuing Calibration Report for SequenceID : FE092925AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056077.D

Aliphatic C12-C16	6293193.000	40.000	6.947	10.396	157329.825	153376.491	-2.578
Aliphatic C16-C21	10298086.000	60.000	10.397	13.773	171634.767	165879.737	-3.469
Aliphatic C21-C28	11678563.000	80.000	13.774	17.443	145982.038	148527.151	1.714
Aliphatic C28-C40	15804133.000	120.000	17.444	22.449	131701.108	136251.923	3.340
Aliphatic EPH	51783287.000	360.000	3.315	22.449	143842.464	146449.789	1.780
Aliphatic C9-C12	7709312.000	60.000	3.315	6.946	128488.533	140027.957	8.241

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	30 Sep 2025 08:07
Client Sample ID:		Operator:	YPVJ
Data file:	FE056077.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.315	6.946	7709312.000	60.000	ug/ml
Aliphatic C12-C16	6.947	10.396	6293193.000	40.000	ug/ml
Aliphatic C16-C21	10.397	13.773	10298086.000	60.000	ug/ml
Aliphatic C21-C28	13.774	17.443	11678563.000	80.000	ug/ml
Aliphatic C28-C40	17.444	22.449	15804133.000	120.000	ug/ml
Aliphatic EPH	3.315	22.449	51783287.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
 Data File : FE056077.D
 Signal(s) : FID1B.ch
 Acq On : 30 Sep 2025 08:07
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/30/2025
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
 Quant Time: Sep 30 08:34:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 Qlast Update : Wed Sep 24 12:55:37 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)	12.074	3848174	20.507 ug/ml
Spiked Amount 50.000		Recovery =	41.01%
12) S 1-chlorooctadecane (S...	13.510	2912233	20.866 ug/ml
Spiked Amount 50.000		Recovery =	41.73%
Target Compounds			
1) T n-Nonane (C9)	3.413	2418072	17.651 ug/ml
2) T n-Decane (C10)	4.672	2534514	18.160 ug/ml
3) T A~Naphthalene (C11.7)	6.392	3138662	19.658 ug/ml
4) T n-Dodecane (C12)	6.847	2756726	19.207 ug/ml
5) T A~2-methylnaphthalene...	7.492	3149498	20.252 ug/ml
6) T n-Tetradecane (C14)	8.683	2978660	20.147 ug/ml
7) T n-Hexadecane (C16)	10.298	3314533	20.858 ug/ml
8) T n-Octadecane (C18)	11.747	3540920	20.905 ug/ml
10) T n-Eicosane (C20)	13.061	3437776	20.739 ug/ml
11) T n-Heneicosane (C21)	13.676	3319390	20.428 ug/ml
13) T n-Docosane (C22)	14.264	3223246	20.172 ug/ml
14) T n-Tetracosane (C24)	15.370	3007040	19.734 ug/ml
15) T n-Hexacosane (C26)	16.393	2768449	19.410 ug/ml
16) T n-Octacosane (C28)	17.346	2679828	19.237 ug/ml
17) T n-Tricontane (C30)	18.236	2803316	18.918 ug/ml
18) T n-Dotriacontane (C32)	19.070	2884097	19.331 ug/ml
19) T n-Tetratriacontane (C34)	19.856	2787056	19.703 ug/ml
20) T n-Hexatriacontane (C36)	20.596	2561839	19.957 ug/mlm
21) T n-Octatriacontane (C38)	21.371	2423852	18.454 ug/mlm
22) T n-Tetracontane (C40)	22.355	2343973	19.703 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056077.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 08:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

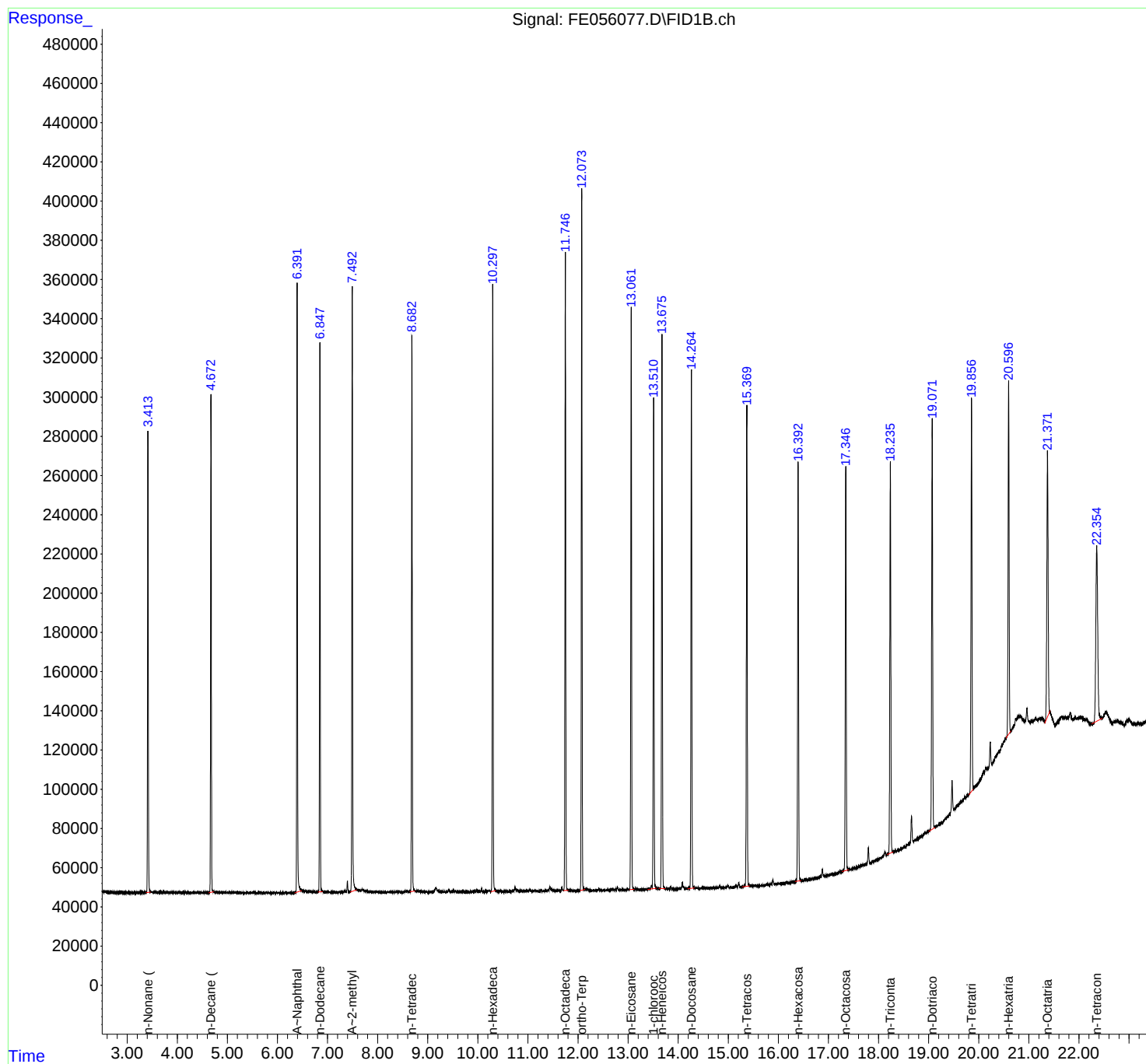
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

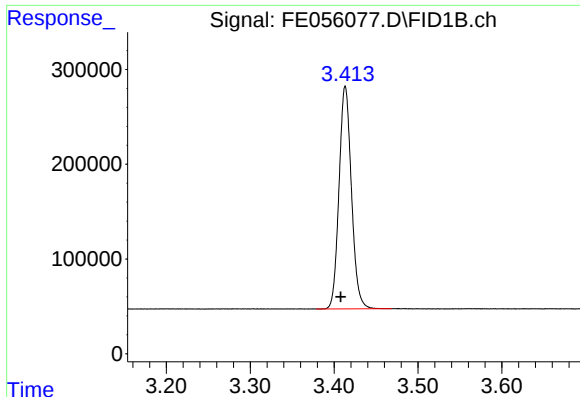
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 08:34:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





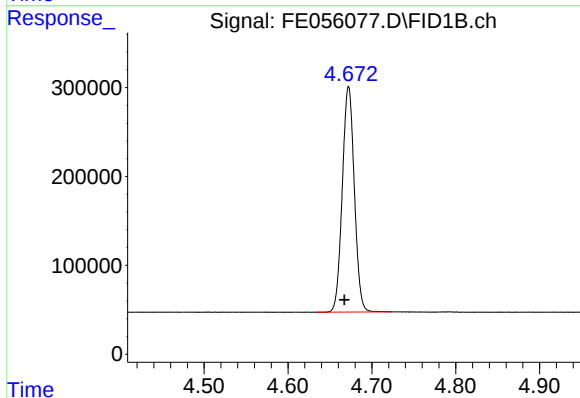
#1 n-Nonane (C9)

R.T.: 3.413 min
Delta R.T.: 0.005 min
Response: 2418072
Conc: 17.65 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

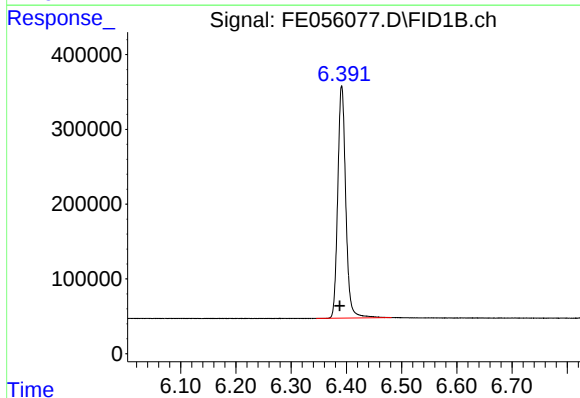
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



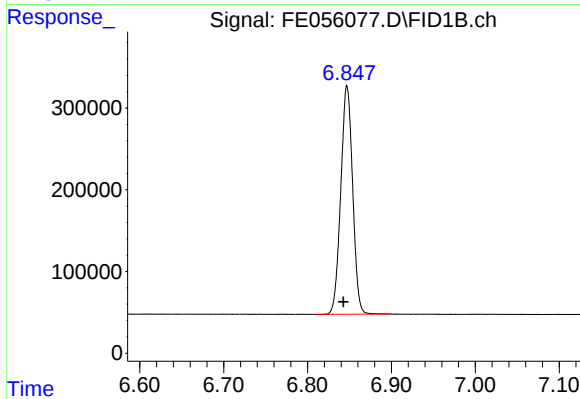
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.005 min
Response: 2534514
Conc: 18.16 ug/ml



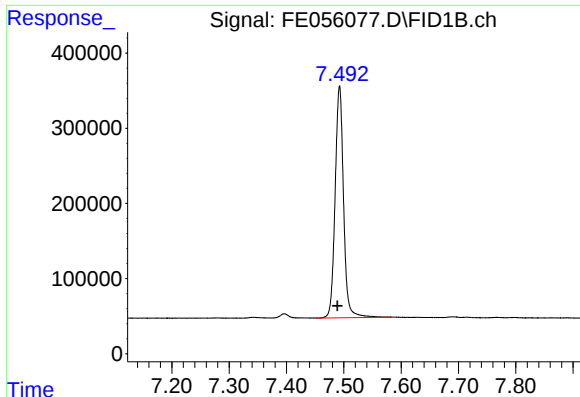
#3 A~Naphthalene (C11.7)

R.T.: 6.392 min
Delta R.T.: 0.003 min
Response: 3138662
Conc: 19.66 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.847 min
Delta R.T.: 0.004 min
Response: 2756726
Conc: 19.21 ug/ml



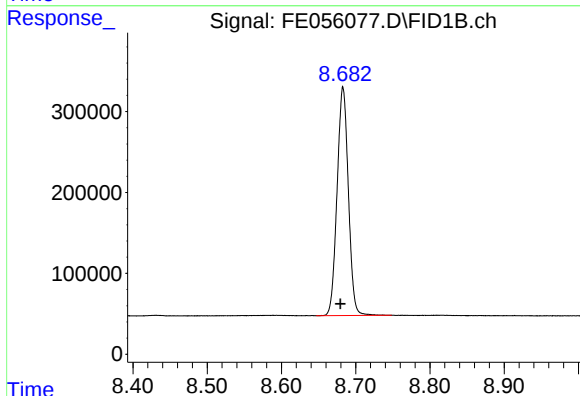
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min
Delta R.T.: 0.004 min
Response: 3149498
Conc: 20.25 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

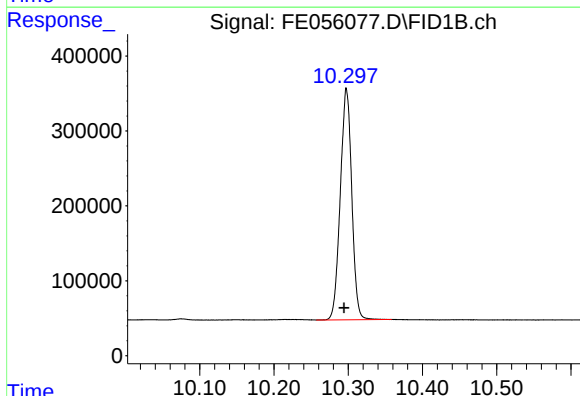
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



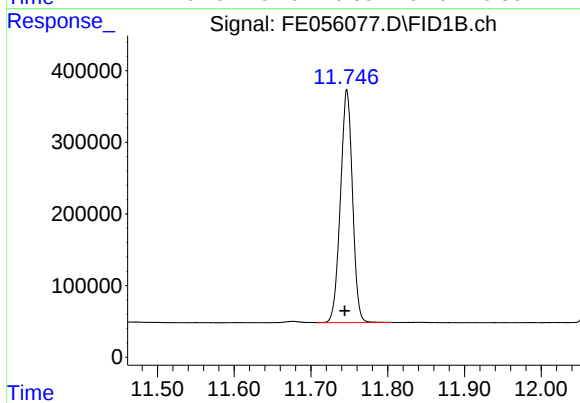
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.004 min
Response: 2978660
Conc: 20.15 ug/ml



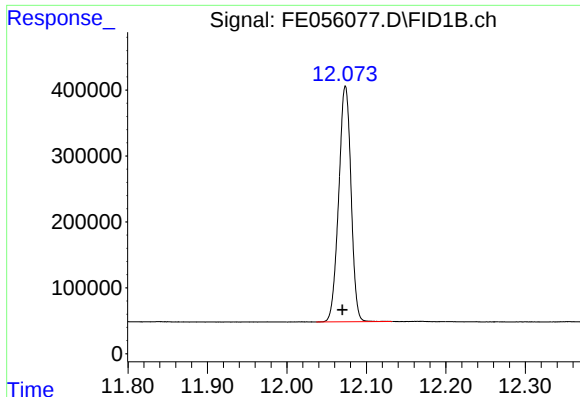
#7 n-Hexadecane (C16)

R.T.: 10.298 min
Delta R.T.: 0.003 min
Response: 3314533
Conc: 20.86 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.747 min
Delta R.T.: 0.003 min
Response: 3540920
Conc: 20.90 ug/ml



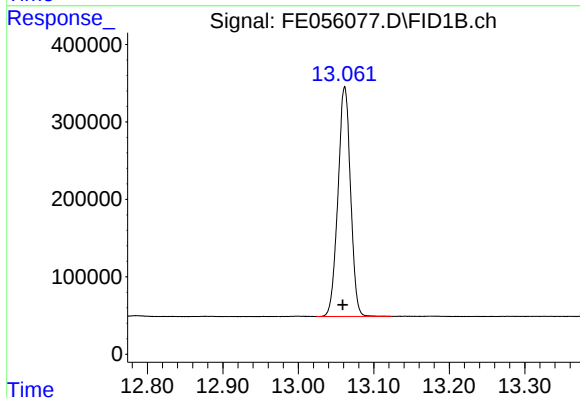
#9 ortho-Terphenyl (SURR)

R.T.: 12.074 min
Delta R.T.: 0.004 min
Response: 3848174
Conc: 20.51 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

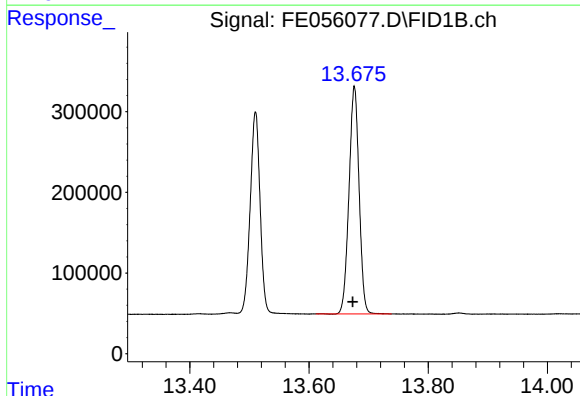
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



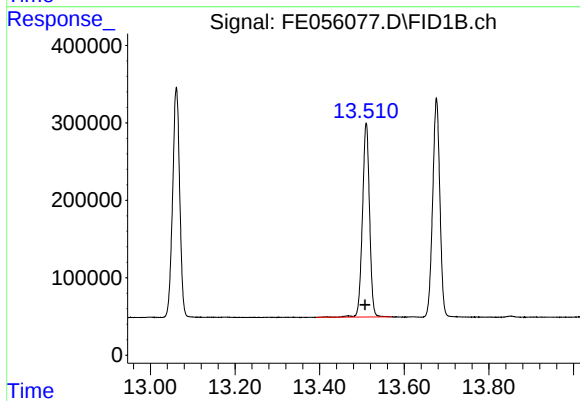
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.003 min
Response: 3437776
Conc: 20.74 ug/ml



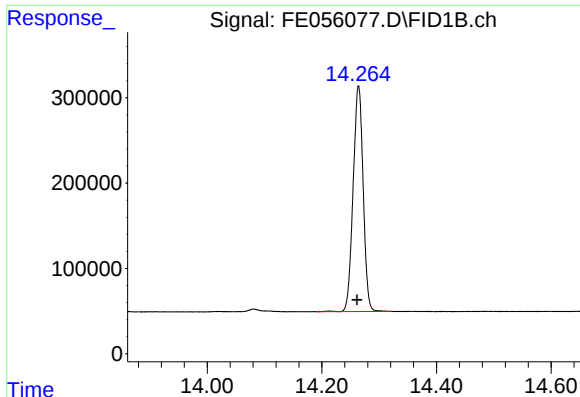
#11 n-Heneicosane (C21)

R.T.: 13.676 min
Delta R.T.: 0.003 min
Response: 3319390
Conc: 20.43 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min
Delta R.T.: 0.003 min
Response: 2912233
Conc: 20.87 ug/ml



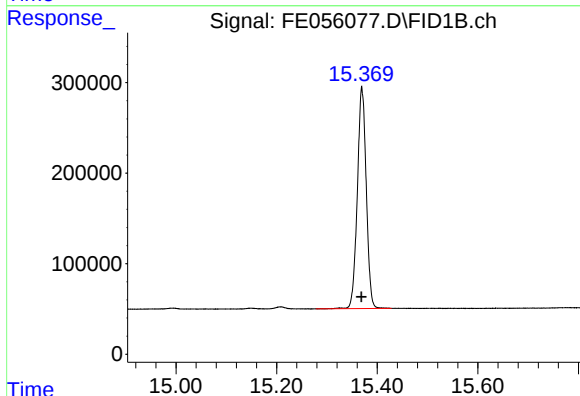
#13 n-Docosane (C22)

R.T.: 14.264 min
Delta R.T.: 0.002 min
Response: 3223246
Conc: 20.17 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

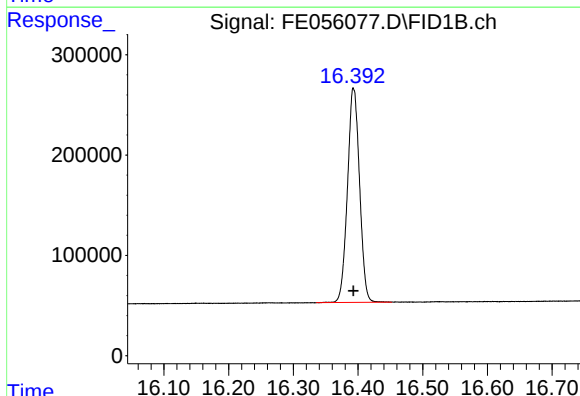
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



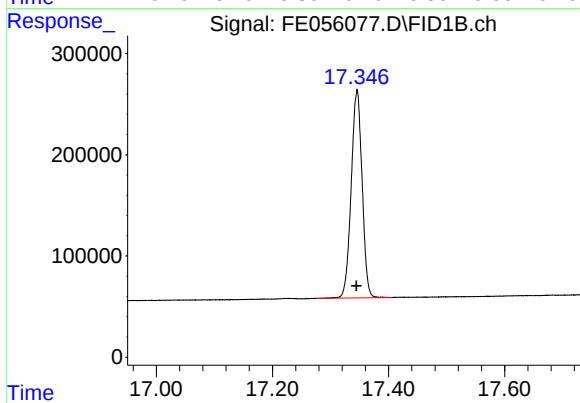
#14 n-Tetracosane (C24)

R.T.: 15.370 min
Delta R.T.: 0.001 min
Response: 3007040
Conc: 19.73 ug/ml



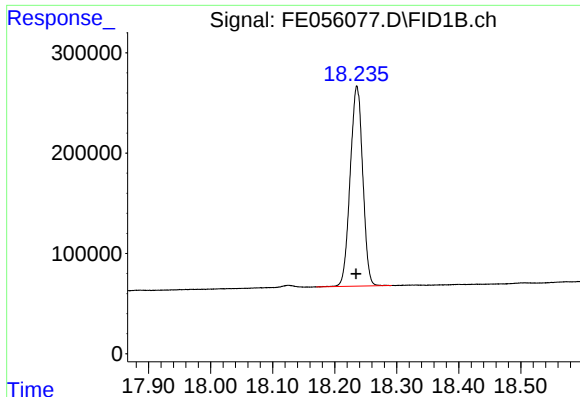
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 2768449
Conc: 19.41 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2679828
Conc: 19.24 ug/ml



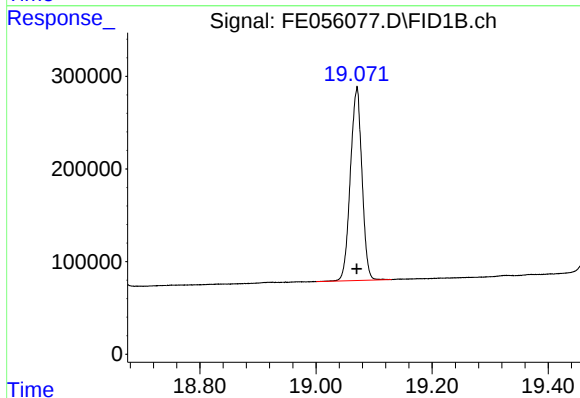
#17 n-Tricontane (C30)

R.T.: 18.236 min
Delta R.T.: 0.001 min
Response: 2803316
Conc: 18.92 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

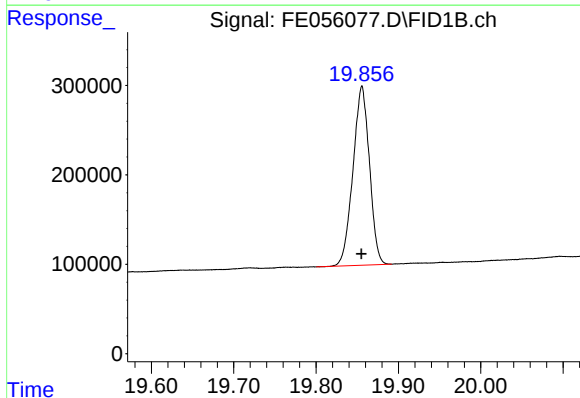
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



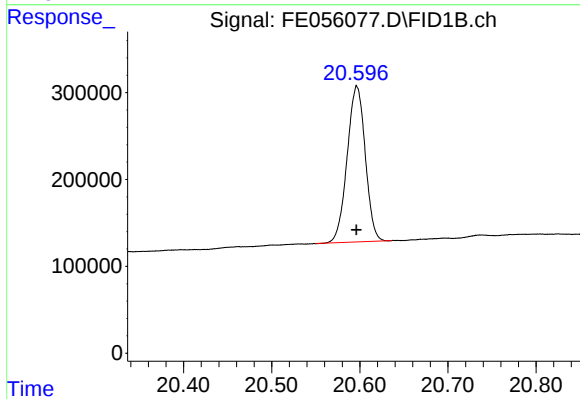
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 2884097
Conc: 19.33 ug/ml



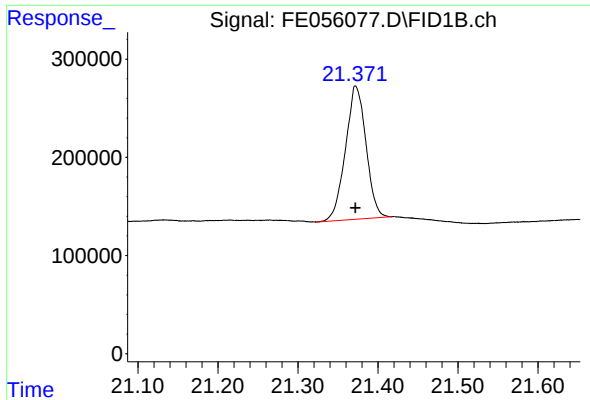
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 2787056
Conc: 19.70 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 2561839
Conc: 19.96 ug/ml m



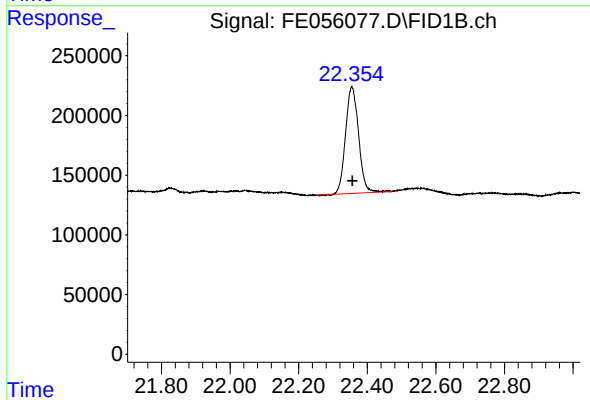
#21 n-Octatriacontane (C38)

R.T.: 21.371 min
Delta R.T.: 0.000 min
Response: 2423852
Conc: 18.45 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.355 min
Delta R.T.: -0.002 min
Response: 2343973
Conc: 19.70 ug/ml

rteres.txt

Instrument :
FID_E

LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056077.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 08:07
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.413	3.379	3.469	BB	235016	2418072	62.84%	3.709%
2	4.672	4.634	4.724	BB	254047	2534514	65.86%	3.888%
3	6.392	6.345	6.482	BB	310630	3138662	81.56%	4.815%
4	6.847	6.810	6.900	BB	279755	2756726	71.64%	4.229%
5	7.493	7.452	7.584	BB	308278	3149498	81.84%	4.831%
6	8.683	8.647	8.748	BB	282057	2978660	77.40%	4.569%
7	10.298	10.257	10.359	BB	309451	3314533	86.13%	5.085%
8	11.747	11.707	11.805	BB	325081	3540920	92.02%	5.432%
9	12.074	12.037	12.132	BB	357581	3848174	100.00%	5.903%
10	13.061	13.024	13.124	BB	297094	3437776	89.34%	5.274%
11	13.510	13.392	13.570	BB	250692	2912233	75.68%	4.467%
12	13.676	13.612	13.739	BB	281517	3319390	86.26%	5.092%
13	14.264	14.190	14.322	BB	264955	3223246	83.76%	4.944%
14	15.370	15.279	15.429	BB	242411	3007040	78.14%	4.613%
15	16.393	16.335	16.452	BB	212459	2768449	71.94%	4.247%
16	17.346	17.275	17.405	BB	204643	2679828	69.64%	4.111%
17	18.236	18.170	18.292	BB	199509	2803316	72.85%	4.300%
18	19.070	19.000	19.130	BB	207593	2884097	74.95%	4.424%
19	19.856	19.800	19.892	BV	200202	2787056	72.43%	4.275%
20	20.597	20.550	20.634	BV	180720	2621510	68.12%	4.021%
21	21.373	21.301	21.534	BV	136377	2721240	70.72%	4.174%
22	22.355	22.251	22.471	BV	89358	2343973	60.91%	3.596%
Sum of corrected areas:							65188912	

Aliphatic EPH 092425.M Tue Sep 30 08:45:22 2025

Continuing Calibration Report for SequenceID : FF092925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FF016469.D

Aromatic C10-C12	5084345.000	40.000	4.521	6.397	127108.625	143322.298	11.313
Aromatic C12-C16	7733315.000	60.000	6.398	9.101	128888.583	145185.730	11.225
Aromatic C16-C21	9911263.000	80.000	9.102	13.420	123890.788	144173.003	14.068
Aromatic C21-C36	20345622.000	180.000	13.421	18.876	113031.233	130834.072	13.607
Aromatic EPH	43074545.000	360.000	4.521	18.876	119651.514	137577.803	13.030

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	29 Sep 2025 14:07
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016469.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.397	5084345.000	40.000	ug/ml
Aromatic C12-C16	6.398	9.101	7733315.000	60.000	ug/ml
Aromatic C16-C21	9.102	13.420	9911263.000	80.000	ug/ml
Aromatic C21-C36	13.421	18.876	20345622.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	43074545.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016469.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 14:07
 Operator : YP\AJ
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 71 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM AROMATIC HC STD

Integration File: autoint1.e
 Quant Time: Sep 30 01:03:20 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...	8.026	2211560	17.655 ug/ml
Spiked Amount 50.000		Recovery =	35.31%
6) S 2-Fluorobiphenyl (SURR)	8.902	1496381	17.742 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	35.48%
11) S ortho-Terphenyl (SURR)	11.969	2632726	17.270 ug/ml
Spiked Amount 50.000		Recovery =	34.54%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.621	2507927	17.791 ug/ml
2) T Naphthalene (C11.7)	6.297	2576418	17.685 ug/ml
3) T 2-Methylnaphthalene (...)	7.397	2618834	17.789 ug/ml
5) T Acenaphthylene (C15.06)	8.702	2548044	17.583 ug/ml
7) T Acenaphthene (C15.5)	9.001	2566437	17.895 ug/ml
8) T Flouorene (C16.55)	9.791	2547498	17.634 ug/ml
9) T Phenanthrene (C19.36)	11.199	2520761	17.282 ug/ml
10) T Anthracene (C19.43)	11.273	2443172	17.077 ug/ml
12) T Fluoranthene (C21.85)	13.022	2483340	17.003 ug/ml
13) T Pyrene (C20.8)	13.320	2399832	16.747 ug/ml
14) T Benzo[a]anthracene (C...	15.204	2245870	16.499 ug/ml
15) T Chrysene (C27.41)	15.246	2376725	16.662 ug/ml
16) T benzo[b]fluoranthene ...	16.765	2229841	16.970 ug/ml
17) T Bnezo[k]fluoranthene ...	16.796	2189119	17.392 ug/ml
18) T Benzo[a]pyrene (C31.34)	17.145	2215712	17.352 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.519	2019062	17.705 ug/ml
20) T Dibenz[a,h]anthracene...	18.560	2369349	18.149 ug/ml
21) T Benzo[g,h,i]perylene ...	18.776	2216604	18.001 ug/ml

(f)=RT Delta > 1/2 Window

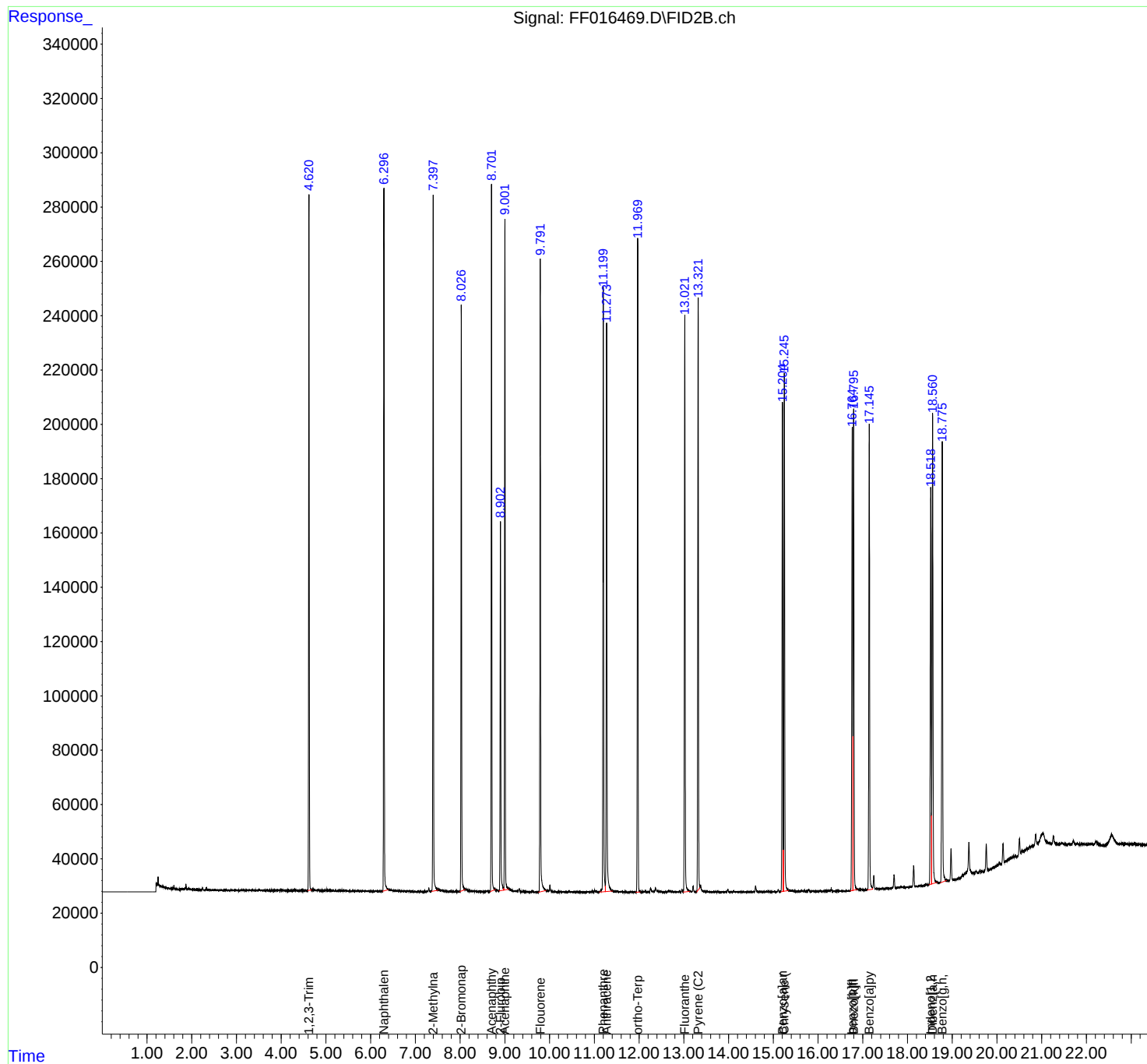
(m)=manual int.

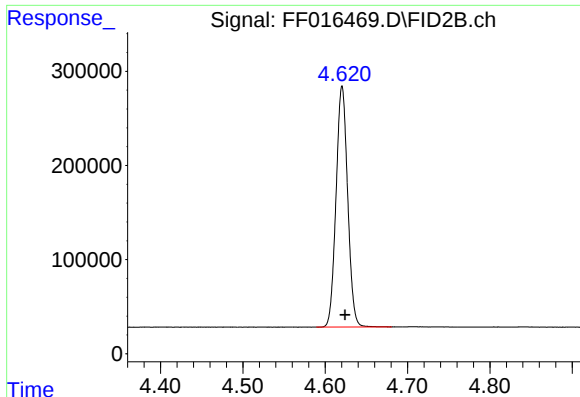
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016469.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 14:07
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 01:03:20 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

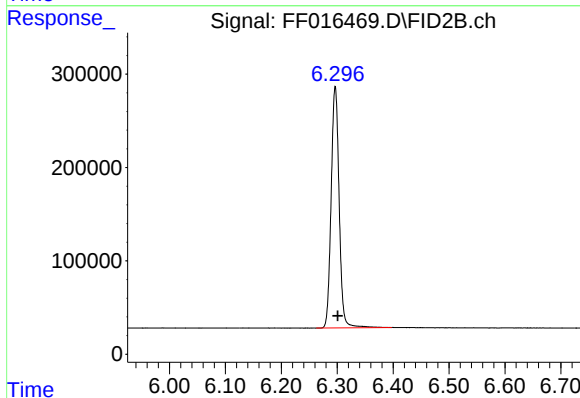




#1 1,2,3-Trimethylbenzene (C10.1)

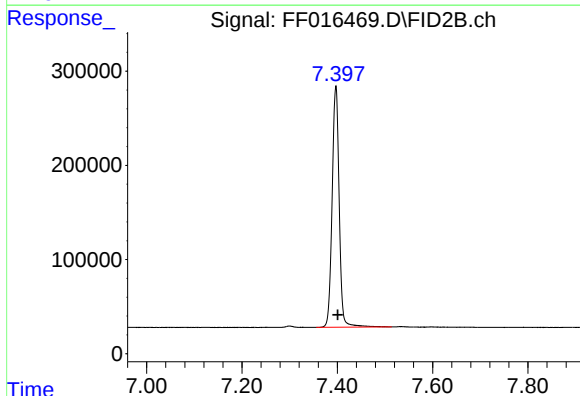
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 2507927
Conc: 17.79 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



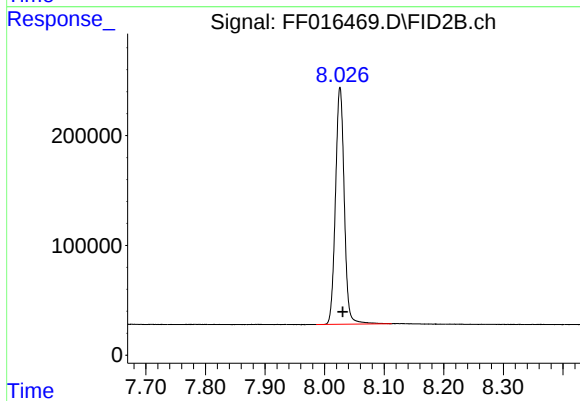
#2 Naphthalene (C11.7)

R.T.: 6.297 min
Delta R.T.: -0.005 min
Response: 2576418
Conc: 17.69 ug/ml



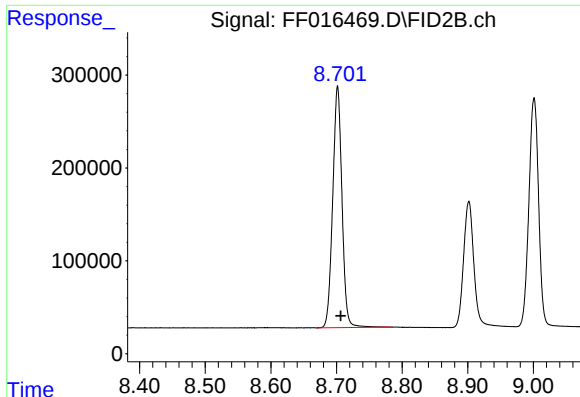
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.397 min
Delta R.T.: -0.004 min
Response: 2618834
Conc: 17.79 ug/ml



#4 2-Bromonaphthalene (SURR)

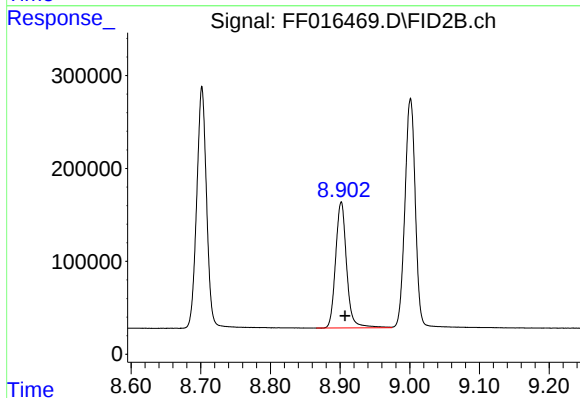
R.T.: 8.026 min
Delta R.T.: -0.005 min
Response: 2211560
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

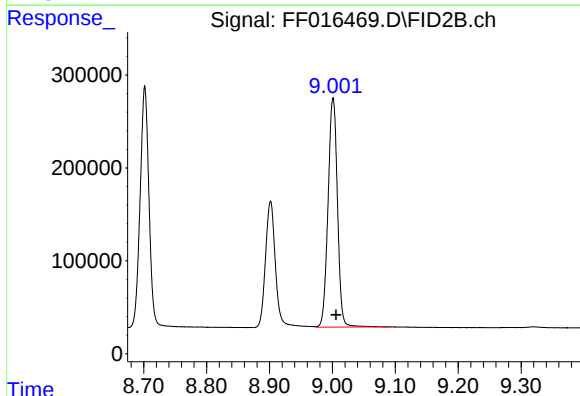
R.T.: 8.702 min
Delta R.T.: -0.005 min
Response: 2548044
Conc: 17.58 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



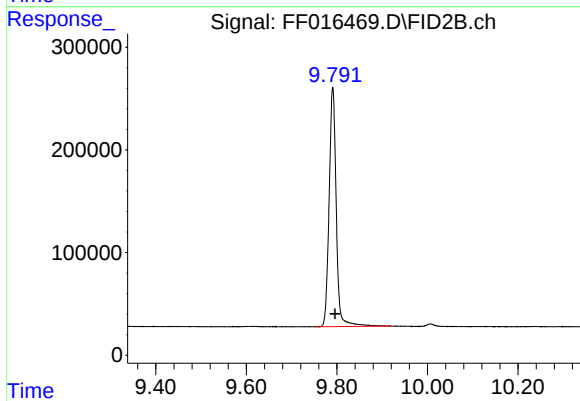
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.902 min
Delta R.T.: -0.006 min
Response: 1496381
Conc: 17.74 ug/ml



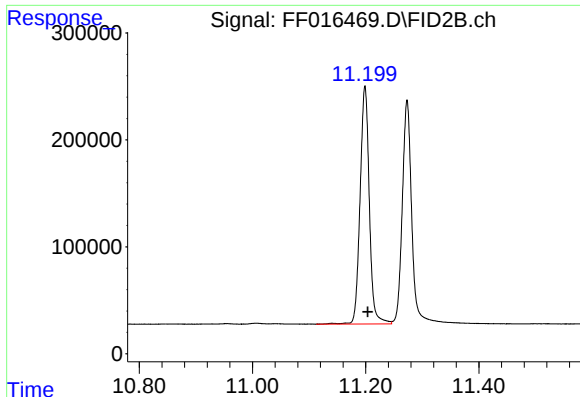
#7 Acenaphthene (C15.5)

R.T.: 9.001 min
Delta R.T.: -0.005 min
Response: 2566437
Conc: 17.89 ug/ml



#8 Flouorene (C16.55)

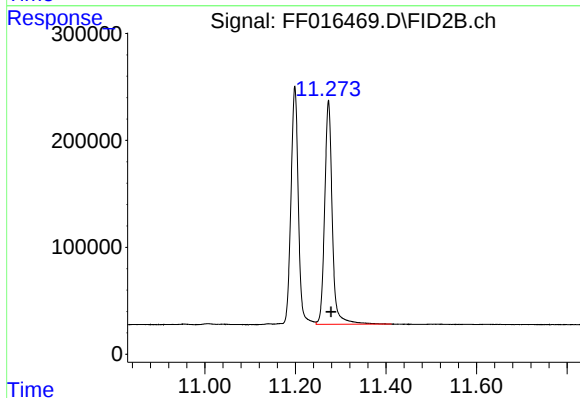
R.T.: 9.791 min
Delta R.T.: -0.005 min
Response: 2547498
Conc: 17.63 ug/ml



#9 Phenanthrene (C19.36)

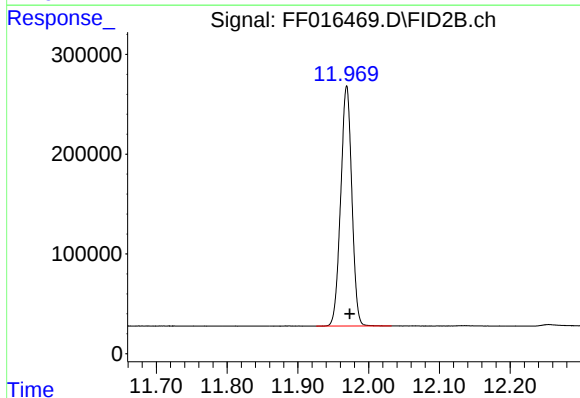
R.T.: 11.199 min
Delta R.T.: -0.005 min
Response: 2520761
Conc: 17.28 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



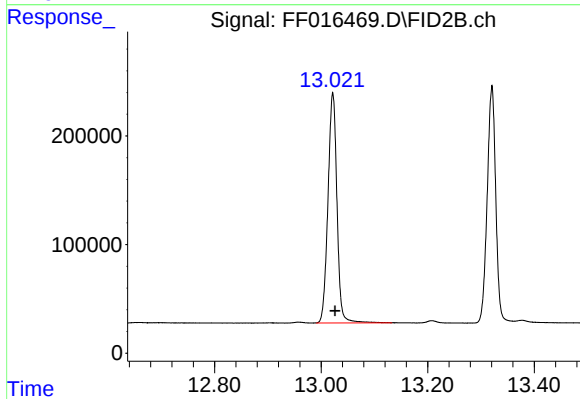
#10 Anthracene (C19.43)

R.T.: 11.273 min
Delta R.T.: -0.006 min
Response: 2443172
Conc: 17.08 ug/ml



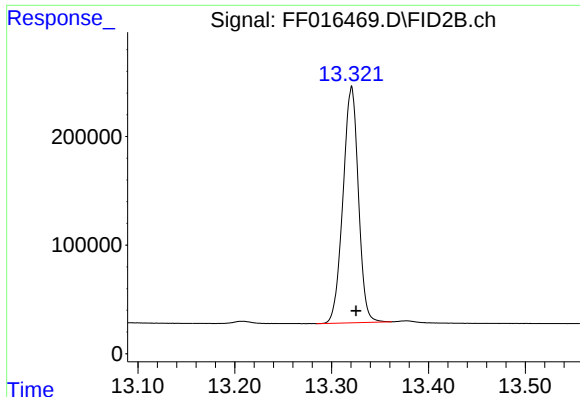
#11 ortho-Terphenyl (SURR)

R.T.: 11.969 min
Delta R.T.: -0.005 min
Response: 2632726
Conc: 17.27 ug/ml



#12 Fluoranthene (C21.85)

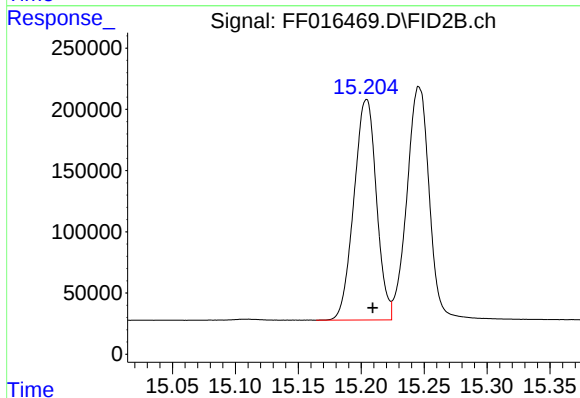
R.T.: 13.022 min
Delta R.T.: -0.005 min
Response: 2483340
Conc: 17.00 ug/ml



#13 Pyrene (C20.8)

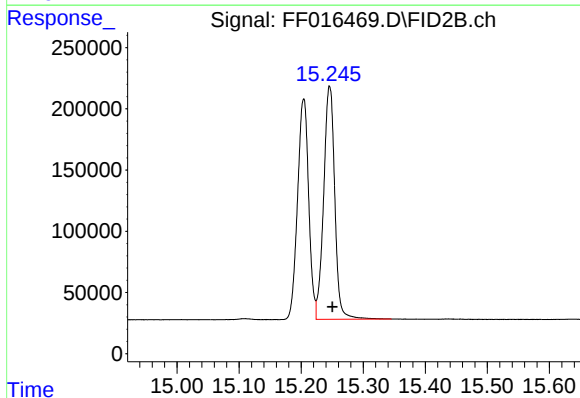
R.T.: 13.320 min
Delta R.T.: -0.005 min
Response: 2399832
Conc: 16.75 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



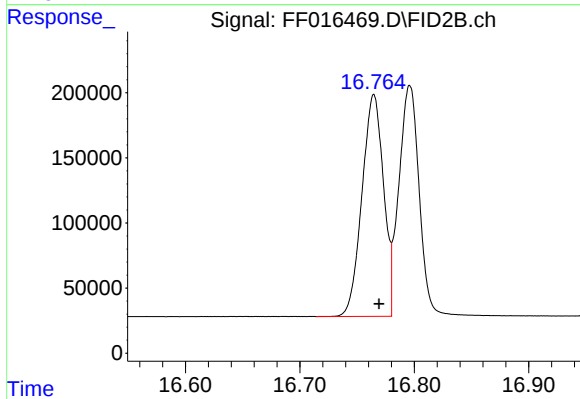
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.204 min
Delta R.T.: -0.005 min
Response: 2245870
Conc: 16.50 ug/ml



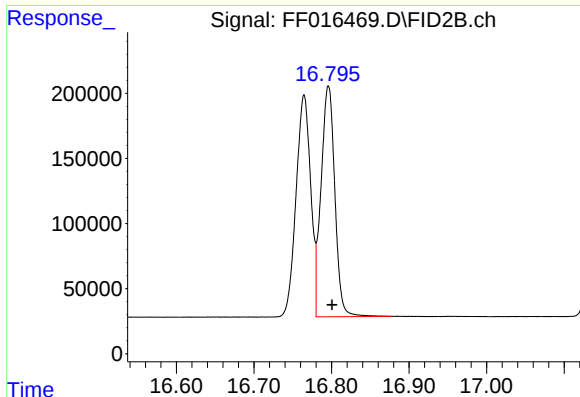
#15 Chrysene (C27.41)

R.T.: 15.246 min
Delta R.T.: -0.005 min
Response: 2376725
Conc: 16.66 ug/ml



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

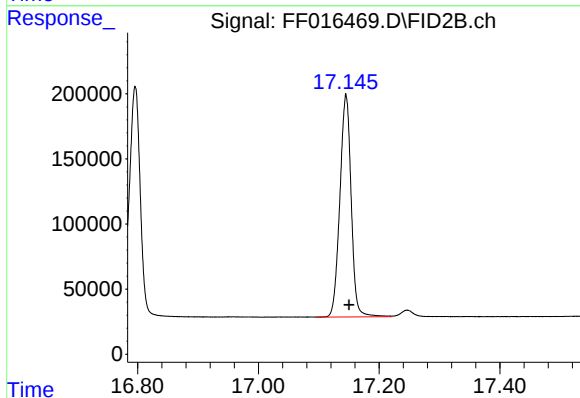
R.T.: 16.765 min
Delta R.T.: -0.005 min
Response: 2229841
Conc: 16.97 ug/ml



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

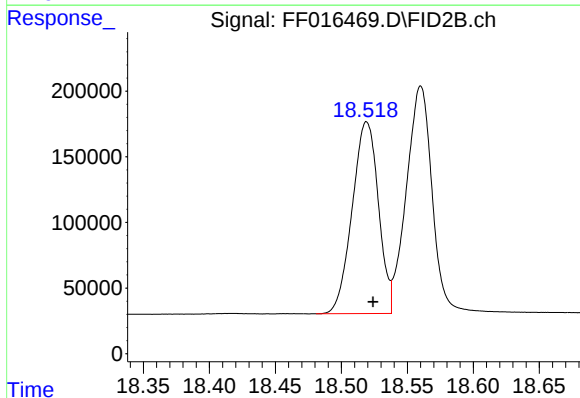
R.T.: 16.796 min
Delta R.T.: -0.005 min
Response: 2189119
Conc: 17.39 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



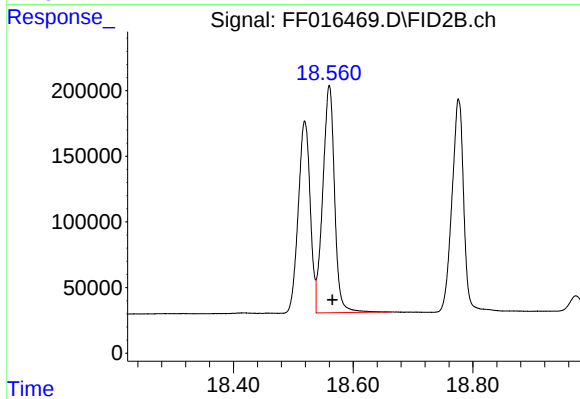
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.145 min
Delta R.T.: -0.005 min
Response: 2215712
Conc: 17.35 ug/ml



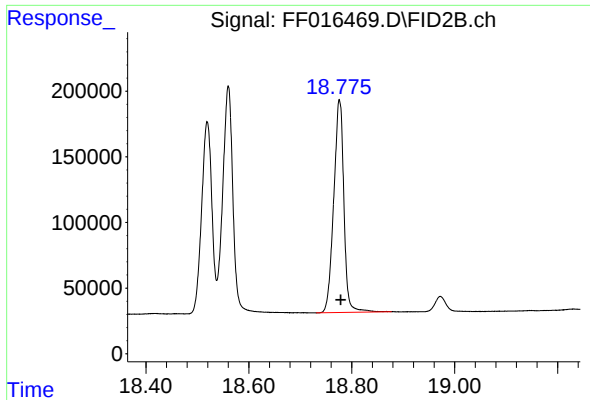
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.519 min
Delta R.T.: -0.005 min
Response: 2019062
Conc: 17.71 ug/ml



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

R.T.: 18.560 min
Delta R.T.: -0.005 min
Response: 2369349
Conc: 18.15 ug/ml



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

R.T.: 18.776 min
Delta R.T.: -0.002 min
Response: 2216604
Conc: 18.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

1
2
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15
16

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016469.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 14:07
Sample : 20 PPM AROMATIC HC STD
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	4.621	4.589	4.681	BB	256175	2507927	95.26%	5.075%
2	6.297	6.262	6.397	BB	258563	2576418	97.86%	5.214%
3	7.397	7.356	7.514	BB	257344	2618834	99.47%	5.300%
4	8.026	7.986	8.112	BB	215892	2211560	84.00%	4.475%
5	8.702	8.669	8.784	BB	260059	2548044	96.78%	5.156%
6	8.902	8.866	8.974	BV	136564	1496381	56.84%	3.028%
7	9.001	8.974	9.094	VB	246336	2566437	97.48%	5.194%
8	9.791	9.754	9.921	BB	232960	2547498	96.76%	5.155%
9	11.199	11.112	11.246	BV	222820	2520761	95.75%	5.101%
10	11.273	11.246	11.412	VB	209245	2443172	92.80%	4.944%
11	11.969	11.926	12.032	BB	241053	2632726	100.00%	5.328%
12	13.022	12.991	13.132	BB	211910	2483340	94.33%	5.025%
13	13.320	13.284	13.362	BV	218094	2399832	91.15%	4.856%
14	15.204	15.164	15.224	BV	180288	2245870	85.31%	4.545%
15	15.246	15.224	15.346	VB	190770	2376725	90.28%	4.810%
16	16.765	16.714	16.780	BV	170583	2229841	84.70%	4.512%
17	16.796	16.780	16.877	VB	177534	2189119	83.15%	4.430%
18	17.145	17.096	17.221	BV	170516	2215712	84.16%	4.484%
19	18.519	18.481	18.538	BV	146145	2019062	76.69%	4.086%
20	18.560	18.538	18.664	VB	173324	2369349	90.00%	4.795%
21	18.776	18.731	18.877	BB	162187	2216604	84.19%	4.486%
Sum of corrected areas:						49415209		

Aromatic EPH 092425.M Tue Sep 30 01:26:26 2025

Continuing Calibration Report for SequenceID : FF092925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FF016480.D

Aromatic C10-C12	5842008.000	40.000	4.521	6.397	146050.200	143322.298	-1.903
Aromatic C12-C16	8833480.000	60.000	6.398	9.101	147224.667	145185.730	-1.404
Aromatic C16-C21	10927914.000	80.000	9.102	13.420	136598.925	144173.003	5.253
Aromatic C21-C36	22884163.000	180.000	13.421	18.876	127134.239	130834.072	2.828
Aromatic EPH	48487565.000	360.000	4.521	18.876	134687.681	137577.803	2.101

Lab Sample ID:	20 PPM AROMATIC HC	Acq On:	29 Sep 2025 22:02
Client Sample ID:		Operator:	YP\AJ
Data file:	FF016480.D	Misc:	
Instrument:	FID_F	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.521	6.397	5842008.000	40.000	ug/ml
Aromatic C12-C16	6.398	9.101	8833480.000	60.000	ug/ml
Aromatic C16-C21	9.102	13.420	10927914.000	80.000	ug/ml
Aromatic C21-C36	13.421	18.876	22884163.000	180.000	ug/ml
Aromatic EPH	4.521	18.876	48487565.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016480.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 22:02
 Operator : YP\AJ
 Sample : 20 PPM AROMATIC HC STD
 Misc :
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 20 PPM AROMATIC HC STD

Integration File: autoint1.e
 Quant Time: Sep 30 01:23:07 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...	8.025	2540204	20.278 ug/ml
Spiked Amount 50.000		Recovery =	40.56%
6) S 2-Fluorobiphenyl (SURR)	8.900	1719562	20.389 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	40.78%
11) S ortho-Terphenyl (SURR)	11.968	2999184	19.673 ug/ml
Spiked Amount 50.000		Recovery =	39.35%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.619	2881911	20.444 ug/ml
2) T Naphthalene (C11.7)	6.295	2960097	20.319 ug/ml
3) T 2-Methylnaphthalene (...)	7.395	2999928	20.377 ug/ml
5) T Acenaphthylene (C15.06)	8.701	2895979	19.984 ug/ml
7) T Acenaphthene (C15.5)	9.000	2937573	20.482 ug/ml
8) T Flouorene (C16.55)	9.790	2921064	20.220 ug/ml
9) T Phenanthrene (C19.36)	11.197	2867348	19.659 ug/ml
10) T Anthracene (C19.43)	11.272	2418954	16.908 ug/ml
12) T Fluoranthene (C21.85)	13.020	2819110	19.302 ug/ml
13) T Pyrene (C20.8)	13.319	2720548	18.985 ug/ml
14) T Benzo[a]anthracene (C...	15.202	2518448	18.501 ug/ml
15) T Chrysene (C27.41)	15.244	2682933	18.808 ug/ml
16) T benzo[b]fluoranthene ...	16.763	2512742	19.123 ug/ml
17) T Bnezo[k]fluoranthene ...	16.795	2474262	19.657 ug/ml
18) T Benzo[a]pyrene (C31.34)	17.144	2486548	19.473 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.518	2278345	19.979 ug/ml
20) T Dibenz[a,h]anthracene...	18.558	2618796	20.059 ug/ml
21) T Benzo[g,h,i]perylene ...	18.774	2492979	20.245 ug/ml

(f)=RT Delta > 1/2 Window

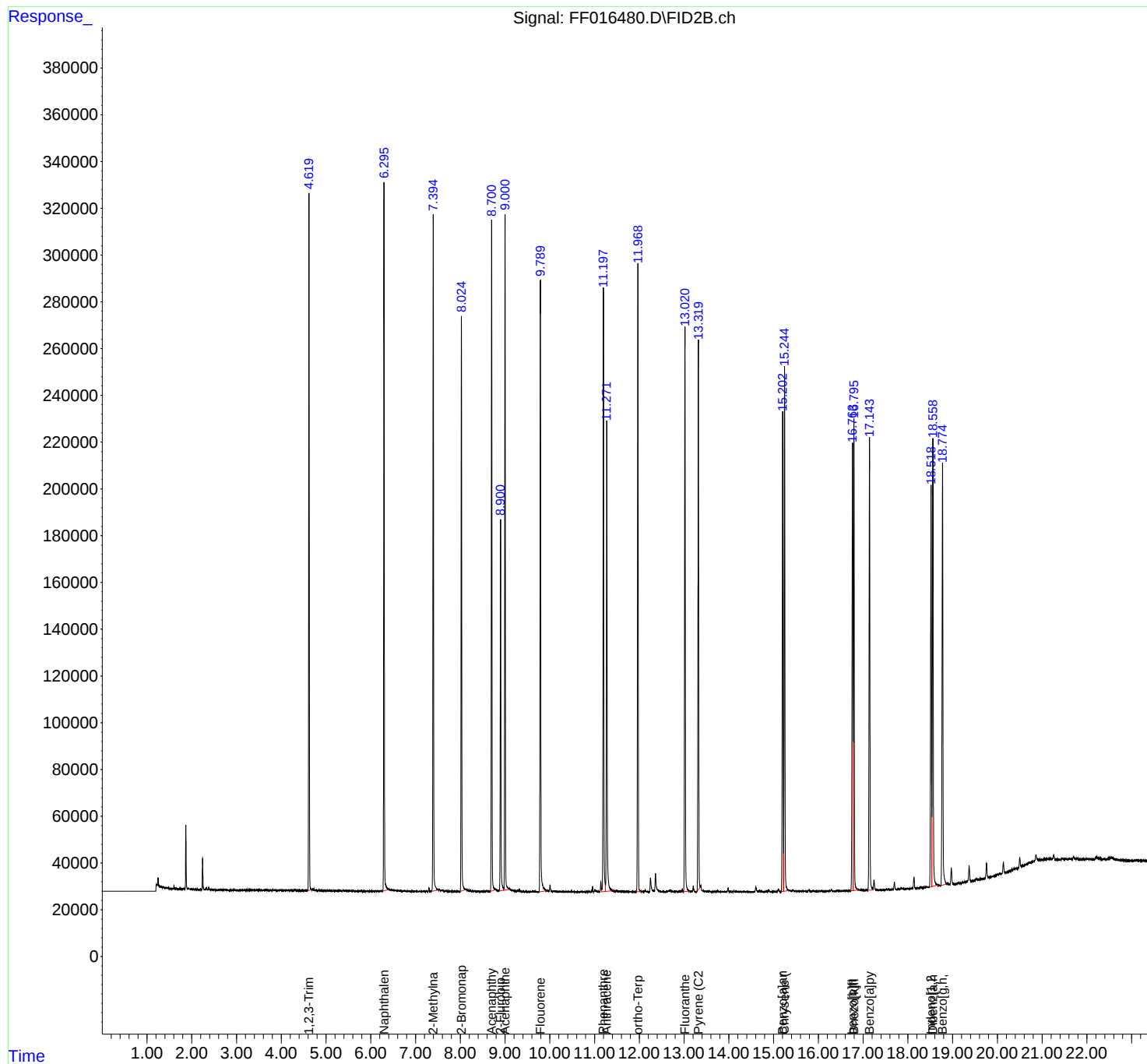
(m)=manual int.

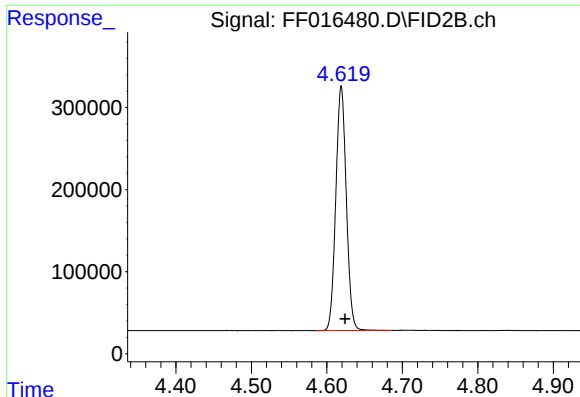
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016480.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 22:02
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Sep 30 01:23:07 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

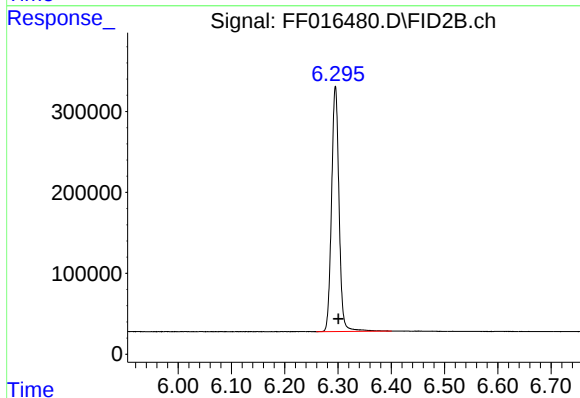




#1 1,2,3-Trimethylbenzene (C10.1)

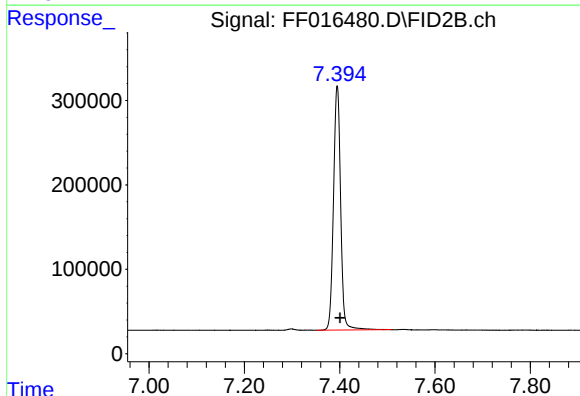
R.T.: 4.619 min
Delta R.T.: -0.005 min
Response: 2881911
Conc: 20.44 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



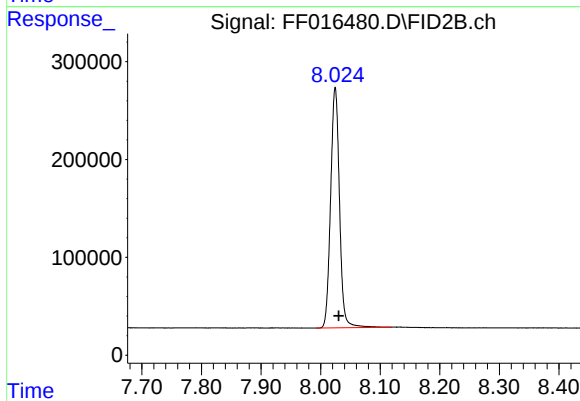
#2 Naphthalene (C11.7)

R.T.: 6.295 min
Delta R.T.: -0.006 min
Response: 2960097
Conc: 20.32 ug/ml



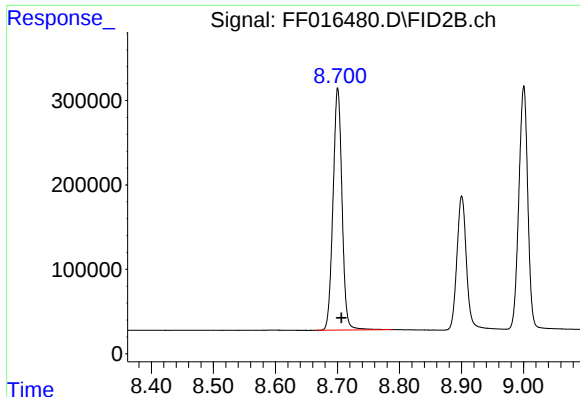
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.395 min
Delta R.T.: -0.006 min
Response: 2999928
Conc: 20.38 ug/ml



#4 2-Bromonaphthalene (SURR)

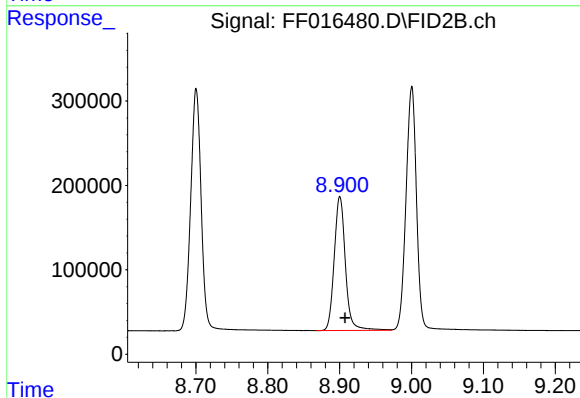
R.T.: 8.025 min
Delta R.T.: -0.006 min
Response: 2540204
Conc: 20.28 ug/ml



#5 Acenaphthylene (C15.06)

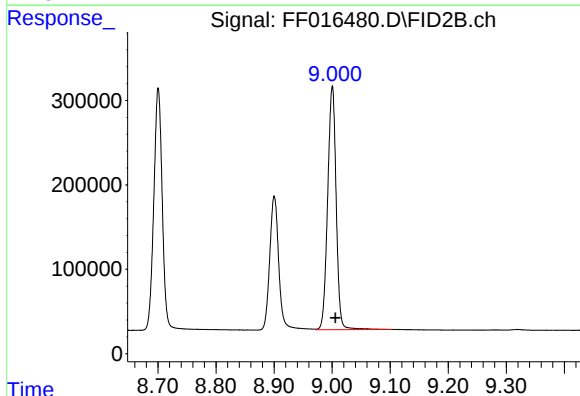
R.T.: 8.701 min
Delta R.T.: -0.006 min
Response: 2895979
Conc: 19.98 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



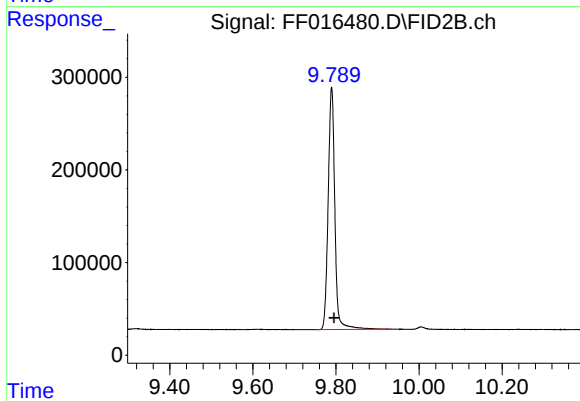
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.900 min
Delta R.T.: -0.007 min
Response: 1719562
Conc: 20.39 ug/ml



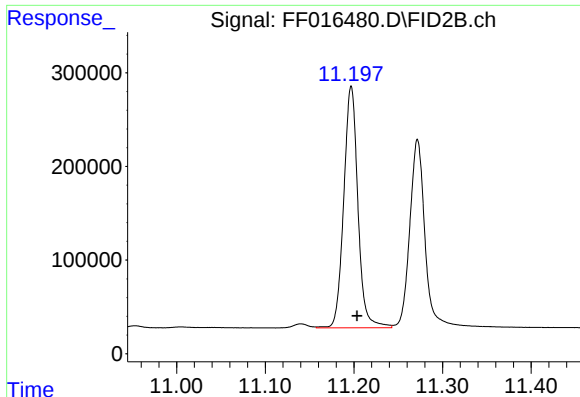
#7 Acenaphthene (C15.5)

R.T.: 9.000 min
Delta R.T.: -0.006 min
Response: 2937573
Conc: 20.48 ug/ml



#8 Fluorene (C16.55)

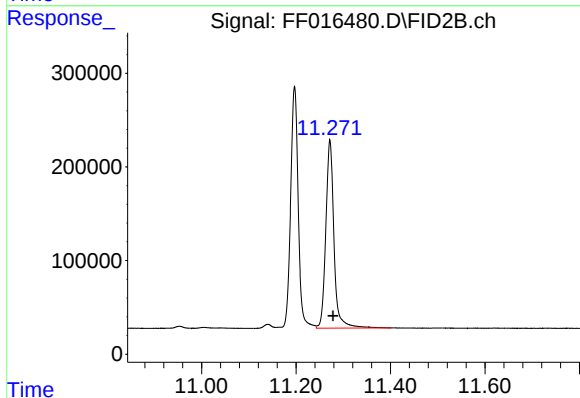
R.T.: 9.790 min
Delta R.T.: -0.006 min
Response: 2921064
Conc: 20.22 ug/ml



#9 Phenanthrene (C19.36)

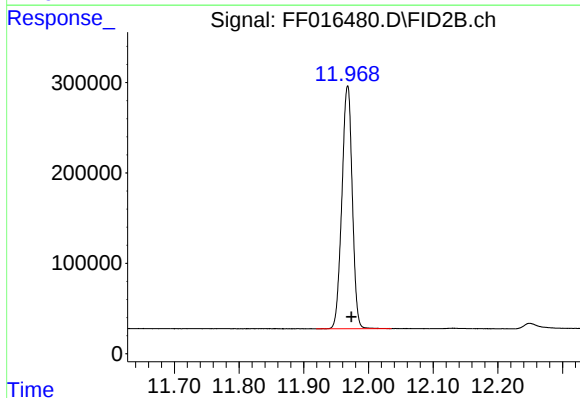
R.T.: 11.197 min
Delta R.T.: -0.007 min
Response: 2867348
Conc: 19.66 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



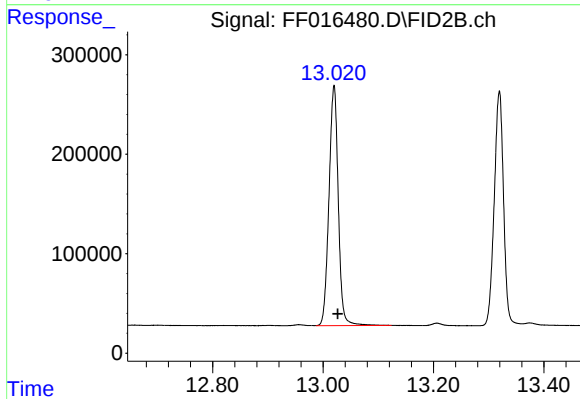
#10 Anthracene (C19.43)

R.T.: 11.272 min
Delta R.T.: -0.007 min
Response: 2418954
Conc: 16.91 ug/ml



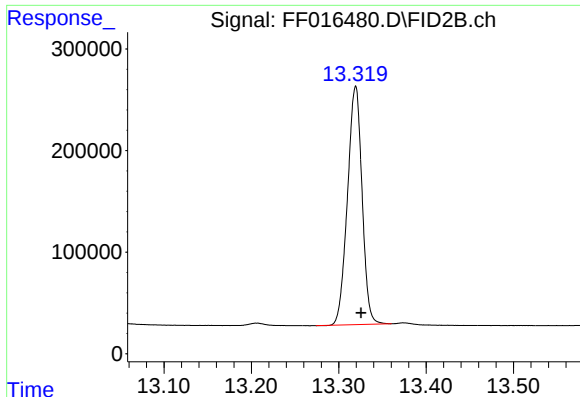
#11 ortho-Terphenyl (SURR)

R.T.: 11.968 min
Delta R.T.: -0.006 min
Response: 2999184
Conc: 19.67 ug/ml



#12 Fluoranthene (C21.85)

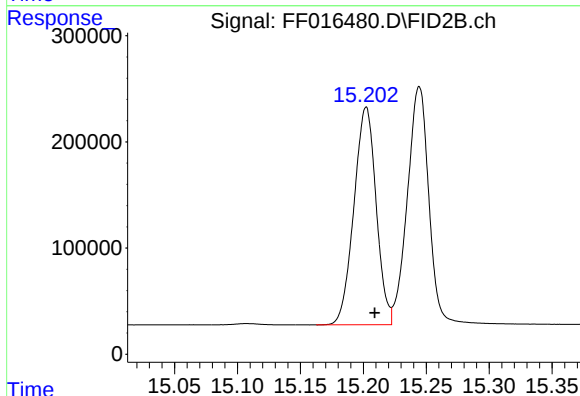
R.T.: 13.020 min
Delta R.T.: -0.007 min
Response: 2819110
Conc: 19.30 ug/ml



#13 Pyrene (C20.8)

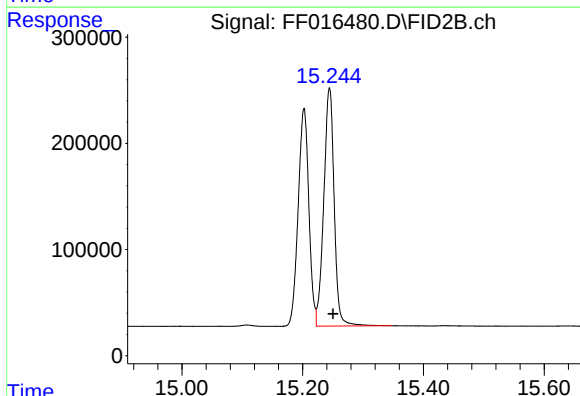
R.T.: 13.319 min
Delta R.T.: -0.006 min
Response: 2720548
Conc: 18.98 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



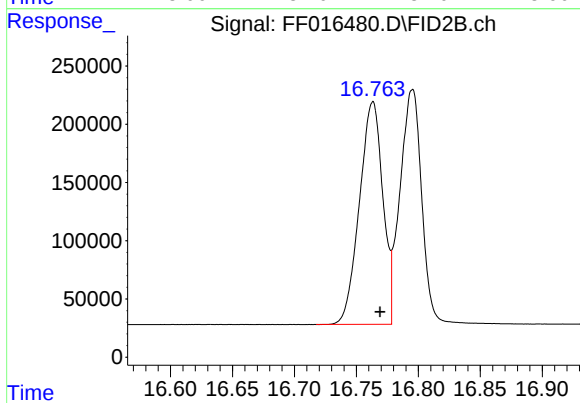
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.202 min
Delta R.T.: -0.007 min
Response: 2518448
Conc: 18.50 ug/ml



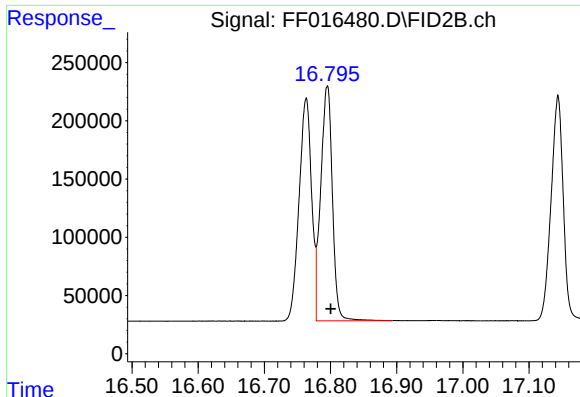
#15 Chrysene (C27.41)

R.T.: 15.244 min
Delta R.T.: -0.006 min
Response: 2682933
Conc: 18.81 ug/ml



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

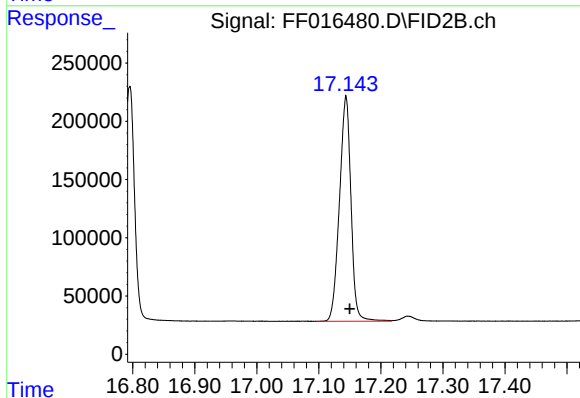
R.T.: 16.763 min
Delta R.T.: -0.006 min
Response: 2512742
Conc: 19.12 ug/ml



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

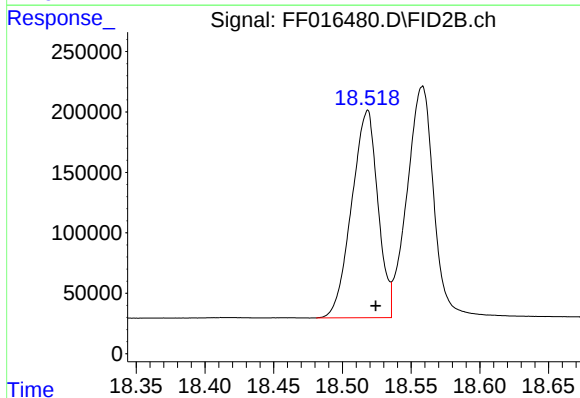
R.T.: 16.795 min
Delta R.T.: -0.006 min
Response: 2474262
Conc: 19.66 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD



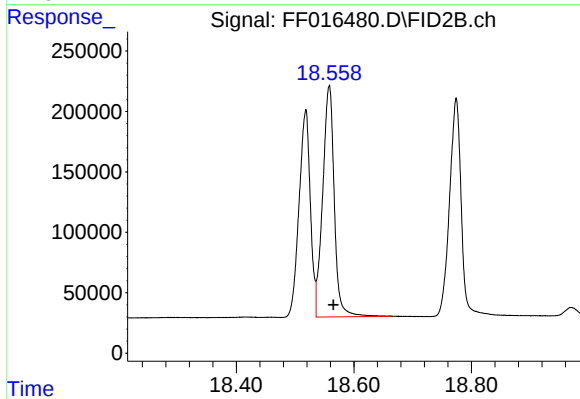
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.144 min
Delta R.T.: -0.006 min
Response: 2486548
Conc: 19.47 ug/ml



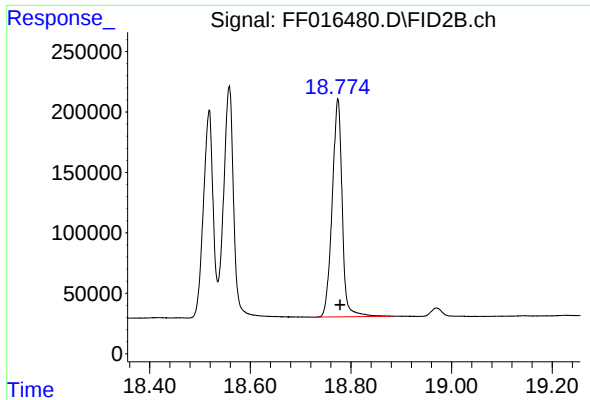
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.518 min
Delta R.T.: -0.006 min
Response: 2278345
Conc: 19.98 ug/ml



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

R.T.: 18.558 min
Delta R.T.: -0.007 min
Response: 2618796
Conc: 20.06 ug/ml



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

R.T.: 18.774 min
Delta R.T.: -0.004 min
Response: 2492979
Conc: 20.25 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

1
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16

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016480.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 22:02
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 62 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	4.619	4.586	4.686	BB	298033	2881911	96.07%	5.170%
2	6.295	6.259	6.401	BB	303540	2960097	98.67%	5.310%
3	7.395	7.351	7.509	BB	289878	2999928	100.00%	5.381%
4	8.025	7.992	8.119	BB	245515	2540204	84.68%	4.557%
5	8.701	8.666	8.787	BB	286598	2895979	96.53%	5.195%
6	8.900	8.867	8.972	BV	158577	1719562	57.32%	3.085%
7	9.000	8.972	9.102	VB	289918	2937573	97.92%	5.270%
8	9.790	9.752	9.934	BB	261679	2921064	97.37%	5.240%
9	11.197	11.157	11.243	VV	258301	2867348	95.58%	5.144%
10	11.272	11.243	11.402	VB	200928	2418954	80.63%	4.339%
11	11.968	11.919	12.036	BB	268884	2999184	99.98%	5.380%
12	13.020	12.987	13.124	BB	240798	2819110	93.97%	5.057%
13	13.319	13.274	13.360	BV	234940	2720548	90.69%	4.880%
14	15.202	15.162	15.222	BV	205443	2518448	83.95%	4.518%
15	15.244	15.222	15.347	VB	224458	2682933	89.43%	4.813%
16	16.763	16.717	16.778	BV	190910	2512742	83.76%	4.507%
17	16.795	16.778	16.892	VB	202438	2474262	82.48%	4.438%
18	17.144	17.096	17.217	BV	193924	2486548	82.89%	4.460%
19	18.518	18.481	18.536	BV	170659	2278345	75.95%	4.087%
20	18.558	18.536	18.664	VB	191074	2618796	87.30%	4.698%
21	18.774	18.731	18.881	BB	180843	2492979	83.10%	4.472%
Sum of corrected areas:							55746516	

Aromatic EPH 092425.M Tue Sep 30 01:29:44 2025



QC SAMPLE DATA

- 1
- 2
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- 14
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- 16

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 916		Date Received:	
Client Sample ID:	PB169879BL		SDG No.:	Q3179
Lab Sample ID:	PB169879BL		Matrix:	Water
Analytical Method:	NJEPH		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :	SW3510			

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 6:05	PB169879

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.28	U	1	8.28	30.0	ug/l	FE056073.D
Aliphatic C12-C16	Aliphatic C12-C16	13.5	U	1	13.5	20.0	ug/l	FE056073.D
Aliphatic C16-C21	Aliphatic C16-C21	8.34	U	1	8.34	30.0	ug/l	FE056073.D
Aliphatic C21-C28	Aliphatic C21-C28	12.5	U	1	12.5	40.0	ug/l	FE056073.D
Aliphatic C28-C40	Aliphatic C28-C40	23.8	U	1	23.8	60.0	ug/l	FE056073.D
Aromatic C10-C12	Aromatic C10-C12	2.07	U	1	2.07	20.0	ug/l	FF016470.D
Aromatic C12-C16	Aromatic C12-C16	4.26	U	1	4.26	30.0	ug/l	FF016470.D
Aromatic C16-C21	Aromatic C16-C21	8.27	U	1	8.27	50.0	ug/l	FF016470.D
Aromatic C21-C36	Aromatic C21-C36	23.8	U	1	23.8	80.0	ug/l	FF016470.D
Total AliphaticEPH	Total AliphaticEPH	66.4	U		66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	38.4	U		38.4	180	ug/l	
Total EPH	Total EPH	105	U		105	360	ug/l	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 916		Date Received:	
Client Sample ID:	PB169879BL		SDG No.:	Q3179
Lab Sample ID:	PB169879BL		Matrix:	Water
Analytical Method:	NJEPH		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :	SW3510			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056073.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
	Aliphatic C9-C12	8.28	U	8.28	30.0	ug/l
	Aliphatic C12-C16	13.5	U	13.5	20.0	ug/l
	Aliphatic C16-C21	8.34	U	8.34	30.0	ug/l
	Aliphatic C21-C28	12.5	U	12.5	40.0	ug/l
	Aliphatic C28-C40	23.8	U	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169879BL	Acq On:	30 Sep 2025 06:05
Client Sample ID:	PB169879BL	Operator:	YP\AJ
Data file:	FE056073.D	Misc:	
Instrument:	FID_E	ALS Vial:	44
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	0	0	300	ug/ml
Aliphatic C12-C16	6.947	10.396	0	0	200	ug/ml
Aliphatic C16-C21	10.397	13.773	0	0	300	ug/ml
Aliphatic C21-C28	13.774	17.443	0	0	400	ug/ml
Aliphatic C28-C40	17.444	22.449	0	0	600	ug/ml
Aliphatic EPH	3.315	22.449	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.511	13.511	4700764	33.68		ug/ml
Aliphatic C9-C28	3.315	17.443	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056073.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:05
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169879BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 07:24:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 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			
12) S 1-chlorooctadecane (S...	13.511	4700764	33.681 ug/mlm
Spiked Amount 50.000		Recovery =	67.36%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056073.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:05
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 44 Sample Multiplier: 1

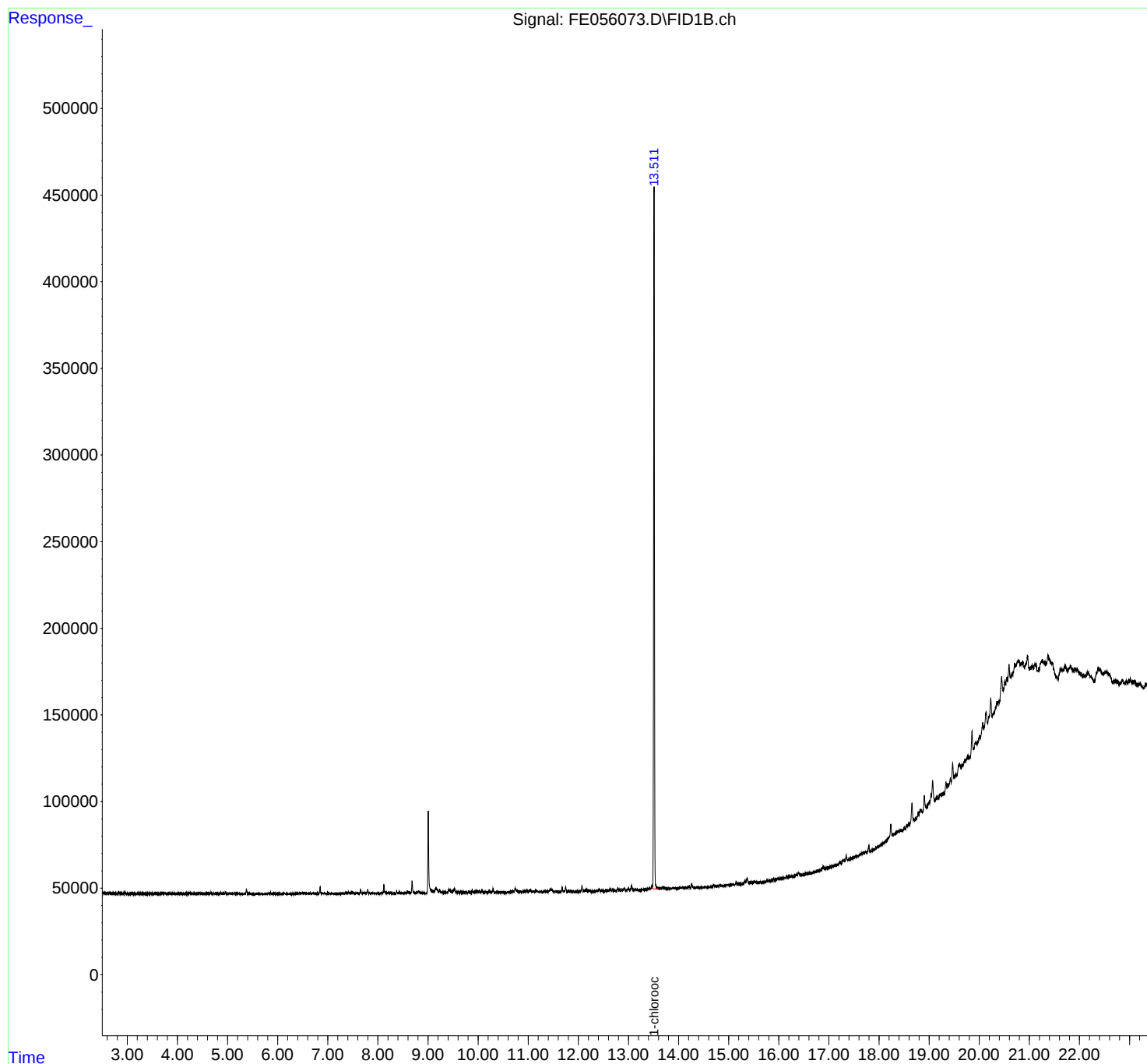
Instrument :
FID_E
ClientSampleId :
PB169879BL

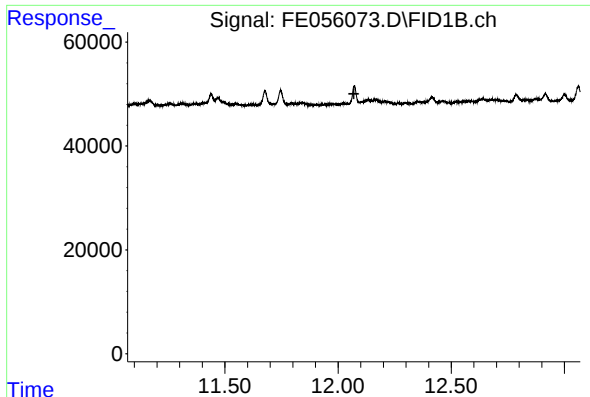
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
Quant Time: Sep 30 07:24:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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





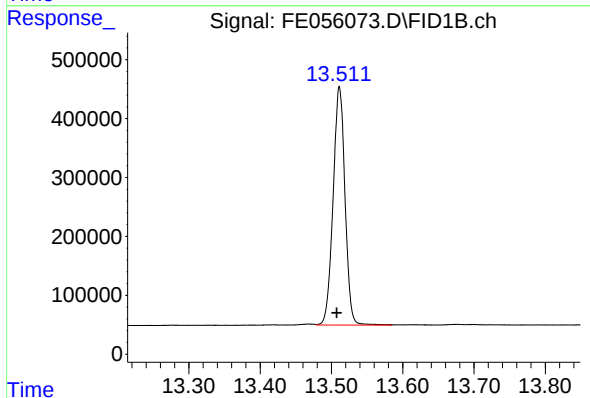
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T.: 12.070 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
PB169879BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min
Delta R.T.: 0.003 min
Response: 4700764
Conc: 33.68 ug/ml m

rteres.txt

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056073.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:05
Sample : PB169879BL
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.511	13.375	13.587	BB	403658	4717078	100.00%	100.000%
Sum of corrected areas:						4717078		

Aliphatic EPH 092425.M Tue Sep 30 08:13:22 2025

Instrument :

FID_E

ClientSampleId :

PB169879BL

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 916		Date Received:	
Client Sample ID:	PB169879BL		SDG No.:	Q3179
Lab Sample ID:	PB169879BL		Matrix:	Water
Analytical Method:	NJEPH		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :	SW3510			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016470.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.07	U	2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	4.26	U	4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	8.27	U	8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	23.8	U	23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.4		40 - 140	95%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	42.4		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.5		40 - 140	77%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169879BL	Acq On:	29 Sep 2025 16:35
Client Sample ID:	PB169879BL	Operator:	YP\AJ
Data file:	FF016470.D	Misc:	
Instrument:	FID_F	ALS Vial:	81
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	0	0	200	ug/ml
Aromatic C12-C16	6.398	9.101	0	0	300	ug/ml
Aromatic C16-C21	9.102	13.420	0	0	500	ug/ml
Aromatic C21-C36	13.421	18.876	0	0	800	ug/ml
Aromatic EPH	4.521	18.876	0	0		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	5932647	47.36		ug/ml
2-Fluorobiphenyl (SURR)	8.903	8.903	3577020	42.41		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	5862005	38.45		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016470.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 16:35
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BL

Integration File: autoint1.e
Quant Time: Sep 30 01:03:48 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...	8.027	5932647	47.360 ug/ml
Spiked Amount 50.000		Recovery =	94.72%
6) S 2-Fluorobiphenyl (SURR)	8.903	3577020	42.412 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	84.82%
11) S ortho-Terphenyl (SURR)	11.972	5862005	38.452 ug/ml
Spiked Amount 50.000		Recovery =	76.90%

Target Compounds

(f)=RT Delta > 1/2 Window

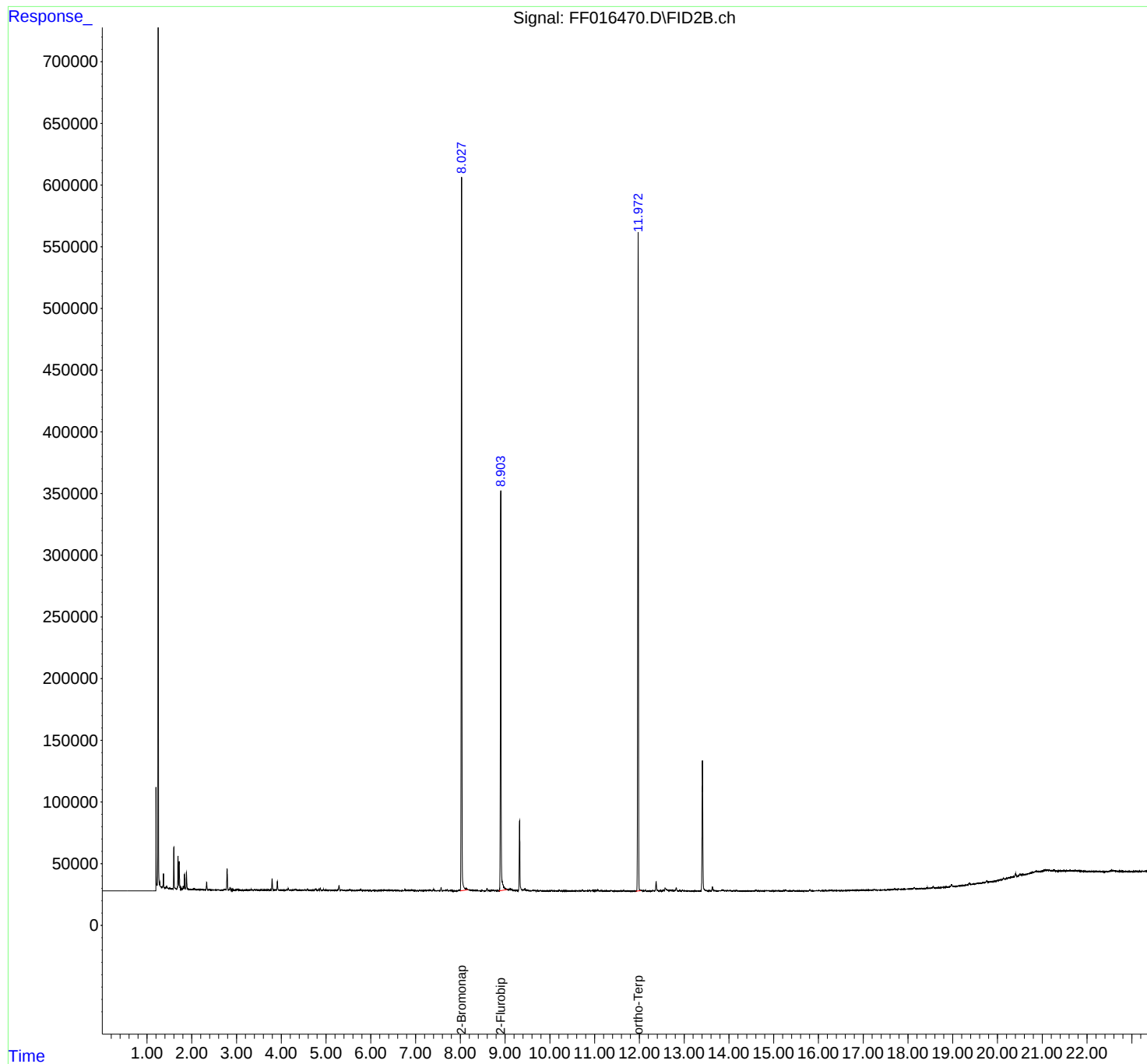
(m)=manual int.

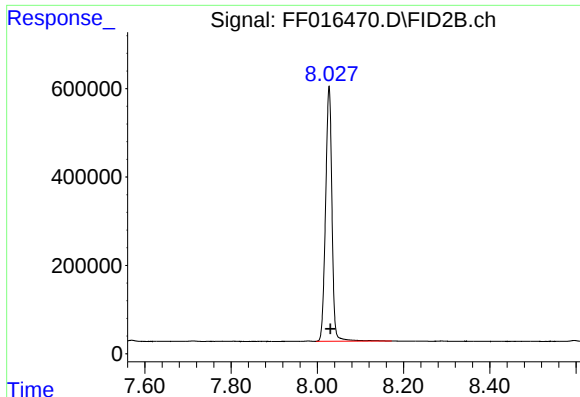
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016470.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 16:35
Operator : YP\AJ
Sample : PB169879BL
Misc :
ALS Vial : 81 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BL

Integration File: autoint1.e
Quant Time: Sep 30 01:03:48 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

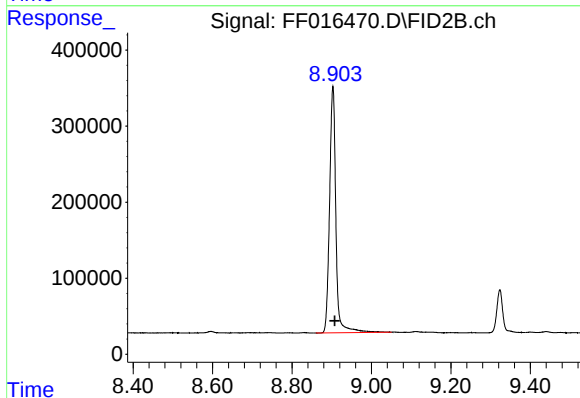




#4 2-Bromonaphthalene (SURR)

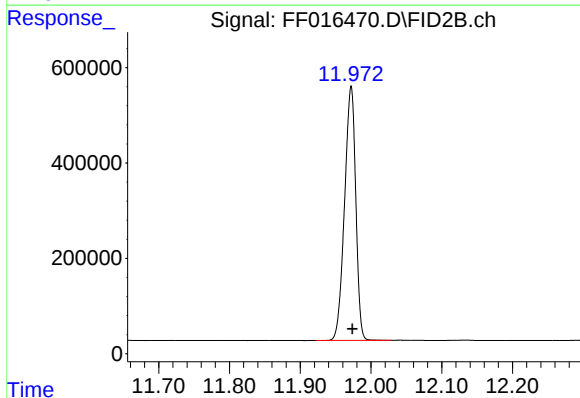
R.T.: 8.027 min
Delta R.T.: -0.003 min
Response: 5932647
Conc: 47.36 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BL



#6 2-Fluorobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.005 min
Response: 3577020
Conc: 42.41 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 5862005
Conc: 38.45 ug/ml

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016470.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 16:35
Sample : PB169879BL
Misc :
ALS Vial : 81 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	8.027	7.997	8.172	PB	579312	5932647	100.00%	38.595%
2	8.903	8.861	9.051	BB	323486	3577020	60.29%	23.270%
3	11.972	11.922	12.029	BB	535793	5862005	98.81%	38.135%
Sum of corrected areas:						15371672		

Aromatic EPH 092425.M Tue Sep 30 01:26:50 2025

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879BS		SDG No.:	Q3179	
Lab Sample ID:	PB169879BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

Prep Date :	Date Analyzed :	Prep Batch ID
09/29/25 08:30	09/30/25 6:36	PB169879

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	135		1	8.28	30.0	ug/l	FE056074.D
Aliphatic C12-C16	Aliphatic C12-C16	131		1	13.5	20.0	ug/l	FE056074.D
Aliphatic C16-C21	Aliphatic C16-C21	232		1	8.34	30.0	ug/l	FE056074.D
Aliphatic C21-C28	Aliphatic C21-C28	308		1	12.5	40.0	ug/l	FE056074.D
Aliphatic C28-C40	Aliphatic C28-C40	513		1	23.8	60.0	ug/l	FE056074.D
Aromatic C10-C12	Aromatic C10-C12	160		1	2.07	20.0	ug/l	FF016471.D
Aromatic C12-C16	Aromatic C12-C16	266		1	4.26	30.0	ug/l	FF016471.D
Aromatic C16-C21	Aromatic C16-C21	469		1	8.27	50.0	ug/l	FF016471.D
Aromatic C21-C36	Aromatic C21-C36	747		1	23.8	80.0	ug/l	FF016471.D
Total AliphaticEPH	Total AliphaticEPH	1320			66.4	180	ug/l	
Total AromaticEPH	Total AromaticEPH	1640			38.4	180	ug/l	
Total EPH	Total EPH	2960			105	360	ug/l	

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 916		Date Received:	
Client Sample ID:	PB169879BS		SDG No.:	Q3179
Lab Sample ID:	PB169879BS		Matrix:	Water
Analytical Method:	NJEPH		% Solid:	0
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:		uL	Test:	EPH
Prep Method :	SW3510			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056074.D	1	09/29/25	09/30/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
	Aliphatic C9-C12	Aliphatic C9-C12	135	8.28	30.0	ug/l
	Aliphatic C12-C16	Aliphatic C12-C16	131	13.5	20.0	ug/l
	Aliphatic C16-C21	Aliphatic C16-C21	232	8.34	30.0	ug/l
	Aliphatic C21-C28	Aliphatic C21-C28	308	12.5	40.0	ug/l
	Aliphatic C28-C40	Aliphatic C28-C40	513	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.1		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169879BS	Acq On:	30 Sep 2025 06:36
Client Sample ID:	PB169879BS	Operator:	YP\AJ
Data file:	FE056074.D	Misc:	
Instrument:	FID_E	ALS Vial:	45
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	9459557	67.555	300	ug/ml
Aliphatic C12-C16	6.947	10.396	10055370	65.56	200	ug/ml
Aliphatic C16-C21	10.397	13.773	19255750	116.083	300	ug/ml
Aliphatic C21-C28	13.774	17.443	22923674	154.34	400	ug/ml
Aliphatic C28-C40	17.444	22.449	34989557	256.8	600	ug/ml
Aliphatic EPH	3.315	22.449	96683908	660.338		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	6013309	43.09		ug/ml
Aliphatic C9-C28	3.315	17.443	61694351	403.538	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
 Data File : FE056074.D
 Signal(s) : FID1B.ch
 Acq On : 30 Sep 2025 06:36
 Operator : YP\AJ
 Sample : PB169879BS
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB169879BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/30/2025
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e
 Quant Time: Sep 30 07:25:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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			
12) S 1-chlorooctadecane (S...	13.512	6013309	43.086 ug/ml
Spiked Amount 50.000		Recovery =	86.17%
Target Compounds			
1) T n-Nonane (C9)	3.413	2435500	17.778 ug/ml
2) T n-Decane (C10)	4.672	3100527	22.216 ug/ml
4) T n-Dodecane (C12)	6.848	3923530	27.336 ug/ml
6) T n-Tetradecane (C14)	8.685	4652270	31.467 ug/ml
7) T n-Hexadecane (C16)	10.299	5403100	34.001 ug/ml
8) T n-Octadecane (C18)	11.749	6159136	36.362 ug/ml
10) T n-Eicosane (C20)	13.064	6667862	40.225 ug/ml
11) T n-Heneicosane (C21)	13.678	6428752	39.564 ug/ml
13) T n-Docosane (C22)	14.266	6314538	39.517 ug/ml
14) T n-Tetracosane (C24)	15.372	5923952	38.876 ug/ml
15) T n-Hexacosane (C26)	16.396	5456075	38.253 ug/ml
16) T n-Octacosane (C28)	17.348	5229109	37.537 ug/ml
17) T n-Tricontane (C30)	18.238	5350436	36.107 ug/ml
18) T n-Dotriacontane (C32)	19.072	5566625	37.310 ug/ml
19) T n-Tetratriacontane (C34)	19.859	5733604	40.534 ug/ml
20) T n-Hexatriacontane (C36)	20.601	5953243	46.375 ug/ml
21) T n-Octatriacontane (C38)	21.378	6088588	46.357 ug/mlm
22) T n-Tetracontane (C40)	22.361	5881420	49.437 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056074.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:36
Operator : YP\AJ
Sample : PB169879BS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :

FID_E

ClientSampleId :

PB169879BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e

Quant Time: Sep 30 07:25:07 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M

Quant Title : GC Extractables

QLast Update : Wed Sep 24 12:55:37 2025

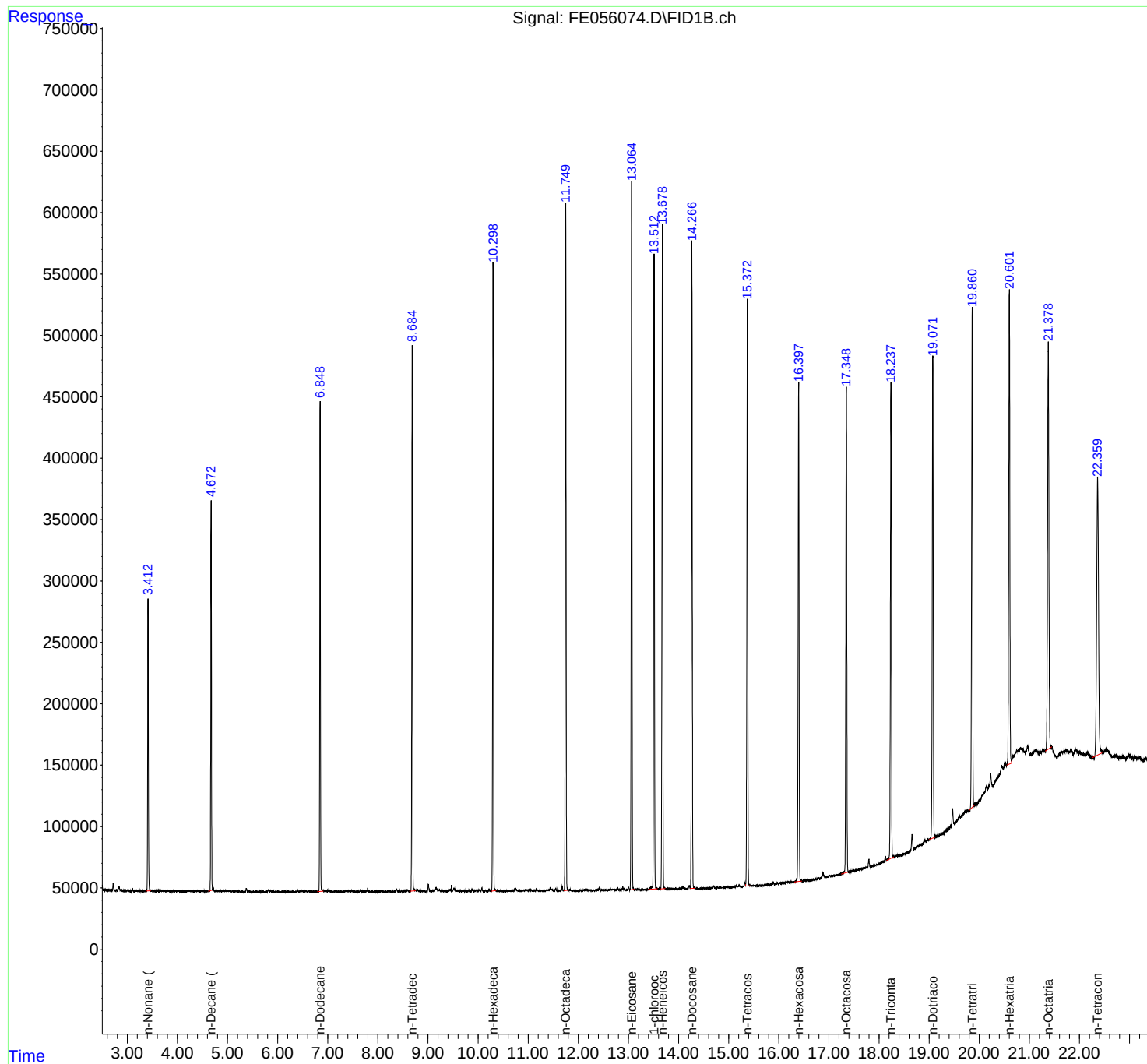
Response via : Initial Calibration

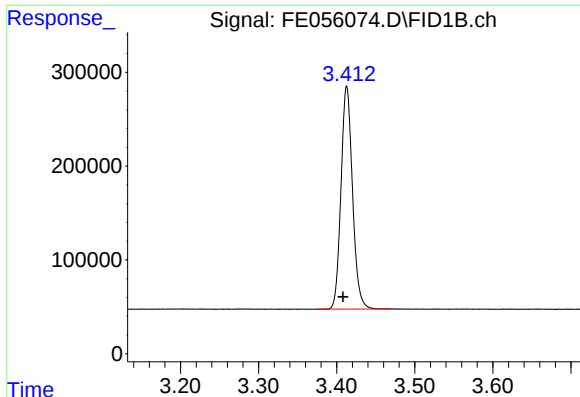
Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

R.T.: 3.413 min
Delta R.T.: 0.005 min
Response: 2435500
Conc: 17.78 ug/ml

Instrument :

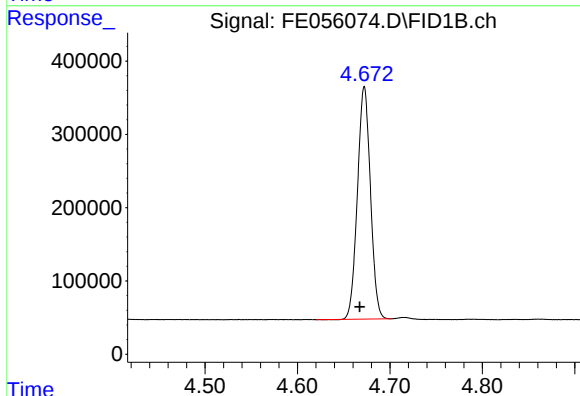
FID_E

ClientSampleId :

PB169879BS

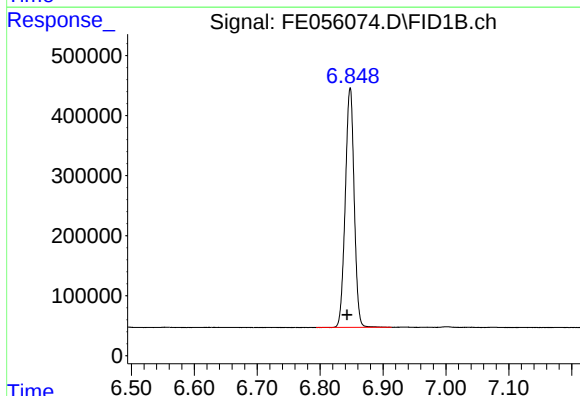
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



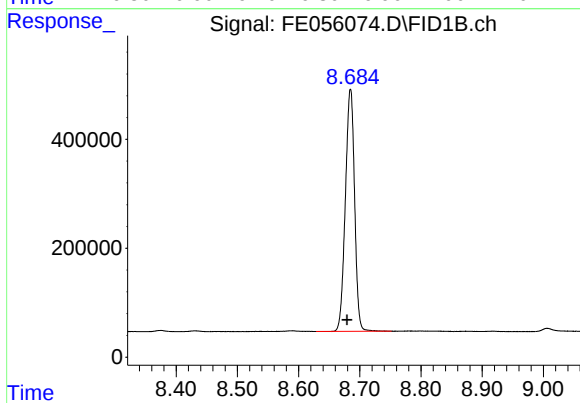
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.005 min
Response: 3100527
Conc: 22.22 ug/ml



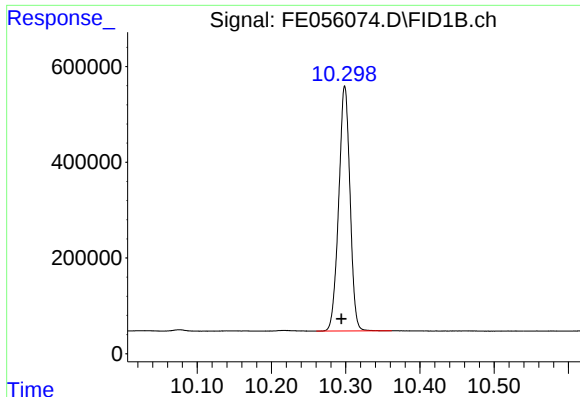
#4 n-Dodecane (C12)

R.T.: 6.848 min
Delta R.T.: 0.005 min
Response: 3923530
Conc: 27.34 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.685 min
Delta R.T.: 0.005 min
Response: 4652270
Conc: 31.47 ug/ml



#7 n-Hexadecane (C16)

R.T.: 10.299 min
Delta R.T.: 0.004 min
Response: 5403100
Conc: 34.00 ug/ml

Instrument :

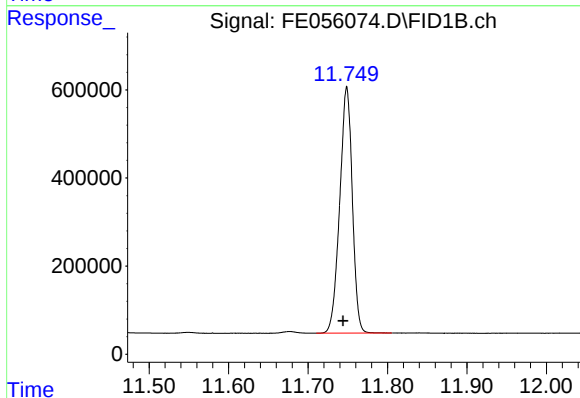
FID_E

ClientSampleId :

PB169879BS

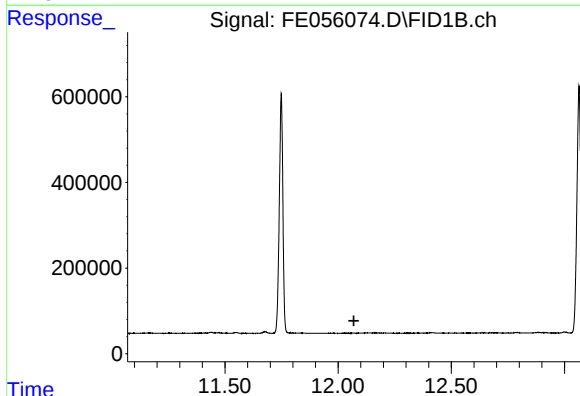
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



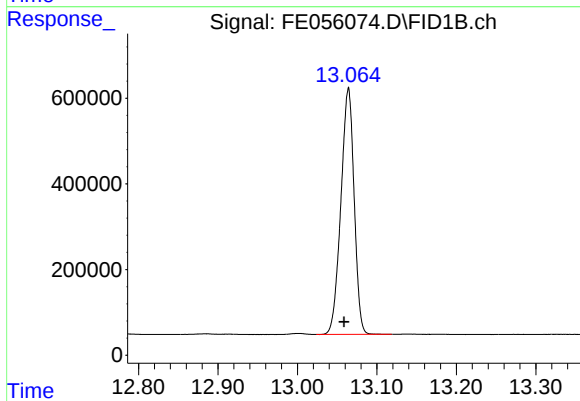
#8 n-Octadecane (C18)

R.T.: 11.749 min
Delta R.T.: 0.005 min
Response: 6159136
Conc: 36.36 ug/ml



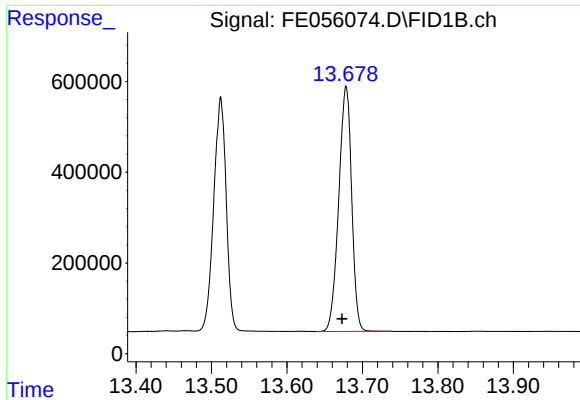
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 13.064 min
Delta R.T.: 0.005 min
Response: 6667862
Conc: 40.22 ug/ml



#11 n-Heneicosane (C21)

R.T.: 13.678 min
Delta R.T.: 0.005 min
Response: 6428752
Conc: 39.56 ug/ml

Instrument :

FID_E

ClientSampleId :

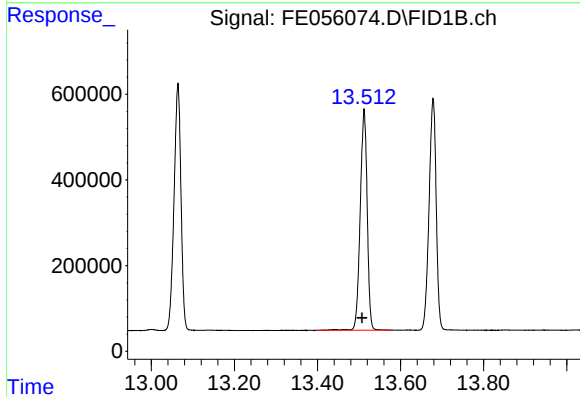
PB169879BS

Manual Integrations

APPROVED

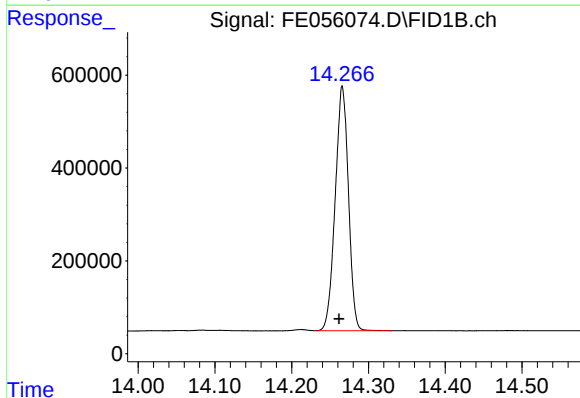
Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025



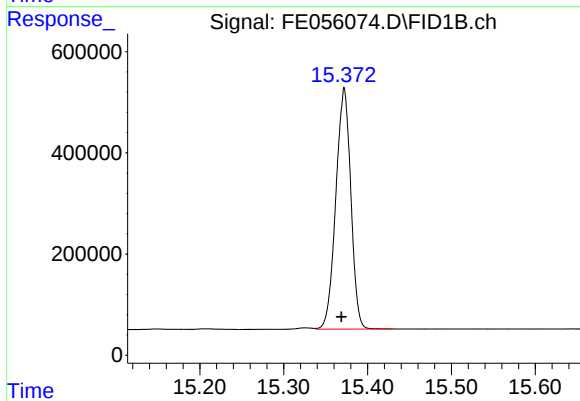
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.005 min
Response: 6013309
Conc: 43.09 ug/ml



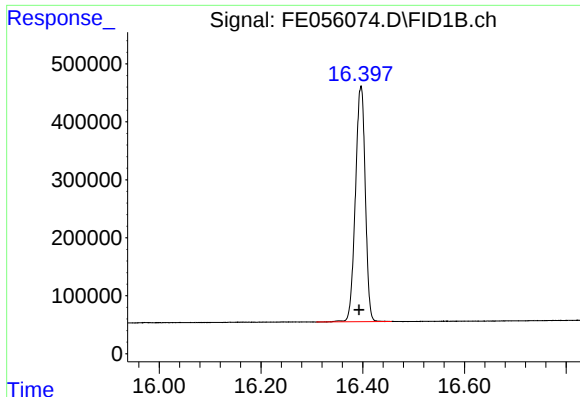
#13 n-Docosane (C22)

R.T.: 14.266 min
Delta R.T.: 0.005 min
Response: 6314538
Conc: 39.52 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.372 min
Delta R.T.: 0.003 min
Response: 5923952
Conc: 38.88 ug/ml



#15 n-Hexacosane (C26)

R.T.: 16.396 min
Delta R.T.: 0.004 min
Response: 5456075
Conc: 38.25 ug/ml

Instrument :

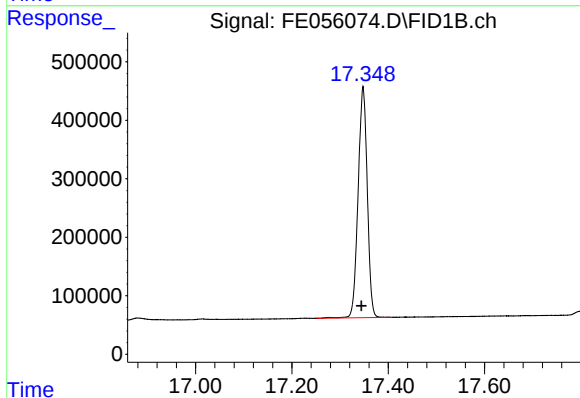
FID_E

ClientSampleId :

PB169879BS

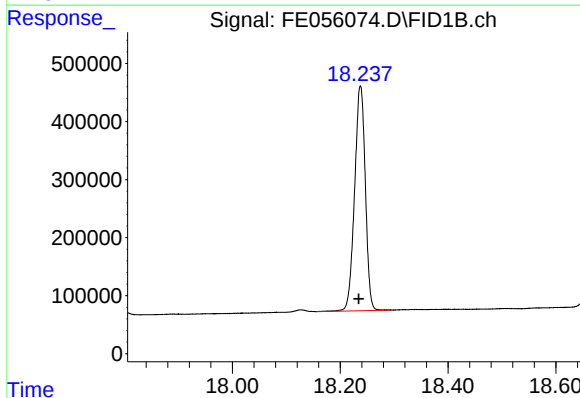
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



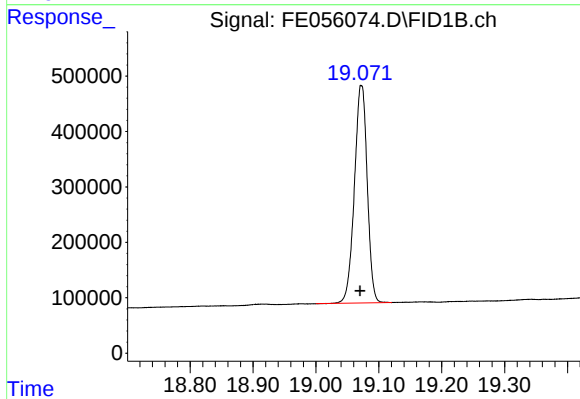
#16 n-Octacosane (C28)

R.T.: 17.348 min
Delta R.T.: 0.003 min
Response: 5229109
Conc: 37.54 ug/ml



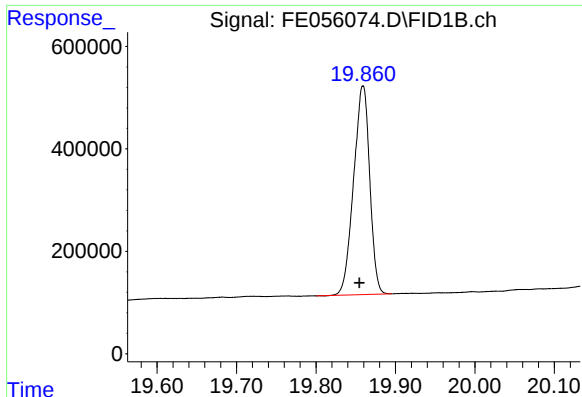
#17 n-Tricontane (C30)

R.T.: 18.238 min
Delta R.T.: 0.003 min
Response: 5350436
Conc: 36.11 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 19.072 min
Delta R.T.: 0.002 min
Response: 5566625
Conc: 37.31 ug/ml



#19 n-Tetratriacontane (C34)

R.T.: 19.859 min
Delta R.T.: 0.004 min
Response: 5733604
Conc: 40.53 ug/ml

Instrument :

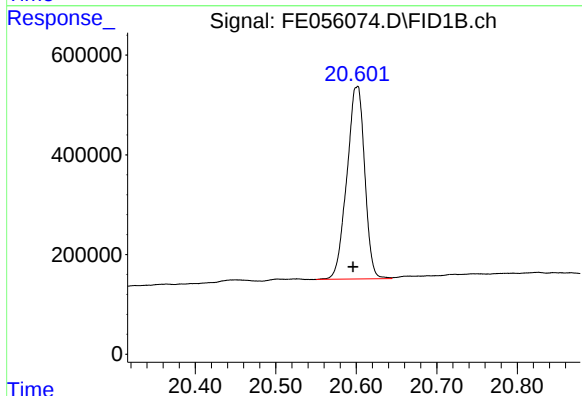
FID_E

ClientSampleId :

PB169879BS

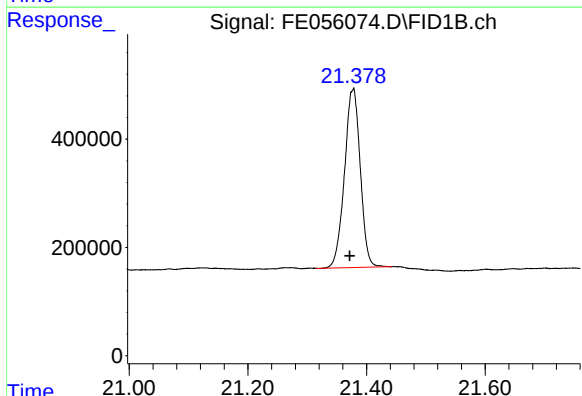
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/30/2025
Supervised By :mohammad ahmed 10/01/2025



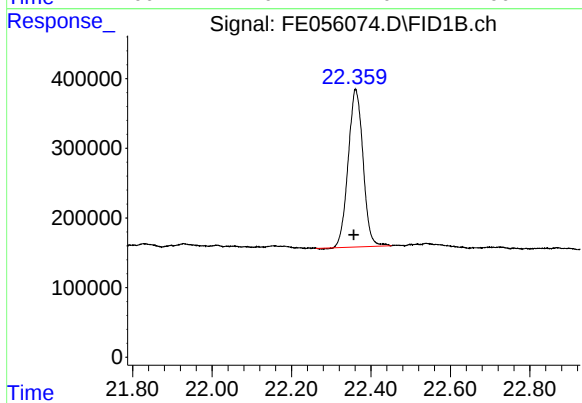
#20 n-Hexatriacontane (C36)

R.T.: 20.601 min
Delta R.T.: 0.005 min
Response: 5953243
Conc: 46.38 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min
Delta R.T.: 0.007 min
Response: 6088588
Conc: 46.36 ug/ml m



#22 n-Tetracontane (C40)

R.T.: 22.361 min
Delta R.T.: 0.005 min
Response: 5881420
Conc: 49.44 ug/ml

rteres.txt

Instrument :

FID_E

ClientSampleId :

PB169879BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE09292
Data File : FE056074.D
Signal(s) : FID1B.ch
Acq On : 30 Sep 2025 06:36
Sample : PB169879BS
Misc :
ALS Vial : 45 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.413	3.374	3.470	BB	237400	2435500	36.53%	2.372%
2	4.672	4.620	4.702	BV	317085	3100527	46.50%	3.019%
3	6.848	6.794	6.914	BB	398490	3923530	58.84%	3.820%
4	8.685	8.629	8.752	BB	446114	4652270	69.77%	4.530%
5	10.299	10.260	10.362	BB	511659	5403100	81.03%	5.261%
6	11.749	11.710	11.805	BB	558554	6159136	92.37%	5.997%
7	13.064	13.024	13.119	PB	573196	6667862	100.00%	6.493%
8	13.512	13.397	13.579	BB	516678	6013309	90.18%	5.855%
9	13.678	13.639	13.739	BB	541185	6428752	96.41%	6.260%
10	14.266	14.232	14.330	VB	527753	6314538	94.70%	6.149%
11	15.372	15.339	15.429	VB	478387	5923952	88.84%	5.768%
12	16.396	16.309	16.457	BB	407098	5456075	81.83%	5.313%
13	17.348	17.250	17.407	BB	394222	5229109	78.42%	5.092%
14	18.238	18.155	18.295	VV	387460	5350436	80.24%	5.210%
15	19.072	19.000	19.120	BB	392478	5566625	83.48%	5.420%
16	19.859	19.800	19.895	BV	407794	5733604	85.99%	5.583%
17	20.601	20.550	20.644	BV	385078	5953243	89.28%	5.797%
18	21.377	21.300	21.540	BV	331835	6504229	97.55%	6.333%
19	22.361	22.262	22.452	BV	226471	5881420	88.21%	5.727%

Sum of corrected areas: 102697215

Aliphatic EPH 092425.M Tue Sep 30 08:14:23 2025

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 916		Date Received:		
Client Sample ID:	PB169879BS		SDG No.:	Q3179	
Lab Sample ID:	PB169879BS		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016471.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	160		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	266		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	469		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	747		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.0		40 - 140	108%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	54.4		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.4		40 - 140	91%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB169879BS	Acq On:	29 Sep 2025 17:05
Client Sample ID:	PB169879BS	Operator:	YP\AJ
Data file:	FF016471.D	Misc:	
Instrument:	FID_F	ALS Vial:	82
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	11469188	80.024	200	ug/ml
Aromatic C12-C16	6.398	9.101	19349655	133.275	300	ug/ml
Aromatic C16-C21	9.102	13.420	33865528	234.895	500	ug/ml
Aromatic C21-C36	13.421	18.876	48882281	373.62	800	ug/ml
Aromatic EPH	4.521	18.876	113566652	821.814		ug/ml
2-Bromonaphthalene (SURR)	8.028	8.028	6761441	53.98		ug/ml
2-Fluorobiphenyl (SURR)	8.905	8.905	4591039	54.44		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	6923797	45.42		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016471.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 17:05
 Operator : YP\AJ
 Sample : PB169879BS
 Misc :
 ALS Vial : 82 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 PB169879BS

Integration File: autoint1.e
 Quant Time: Sep 30 01:04:07 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	6761441	53.976 ug/ml
Spiked Amount 50.000		Recovery =	107.95%
6) S 2-Fluorobiphenyl (SURR)	8.905	4591039	54.435 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	108.87%
11) S ortho-Terphenyl (SURR)	11.972	6923797	45.417 ug/ml
Spiked Amount 50.000		Recovery =	90.83%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.621	5352626	37.972 ug/ml
2) T Naphthalene (C11.7)	6.297	6116562	41.986 ug/ml
3) T 2-Methylnaphthalene (...)	7.398	5957164	40.464 ug/ml
5) T Acenaphthylene (C15.06)	8.705	6686342	46.139 ug/ml
7) T Acenaphthene (C15.5)	9.005	6706149	46.759 ug/ml
8) T Flouorene (C16.55)	9.795	6915095	47.868 ug/ml
9) T Phenanthrene (C19.36)	11.203	6857027	47.012 ug/ml
10) T Anthracene (C19.43)	11.279	6695772	46.801 ug/ml
12) T Fluoranthene (C21.85)	13.027	6718611	46.002 ug/ml
13) T Pyrene (C20.8)	13.326	6679023	46.608 ug/ml
14) T Benzo[a]anthracene (C...	15.210	6281921	46.149 ug/ml
15) T Chrysene (C27.41)	15.255	7217787	50.599 ug/ml
16) T benzo[b]fluoranthene ...	16.772	6002410	45.681 ug/ml
17) T Bnezo[k]fluoranthene ...	16.807	6001192	47.678 ug/ml
18) T Benzo[a]pyrene (C31.34)	17.155	5801355	45.433 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.531	6219562	54.539 ug/ml
20) T Dibenz[a,h]anthracene...	18.570	5756376	44.093 ug/ml
21) T Benzo[g,h,i]perylene ...	18.789	5601678	45.491 ug/ml

(f)=RT Delta > 1/2 Window

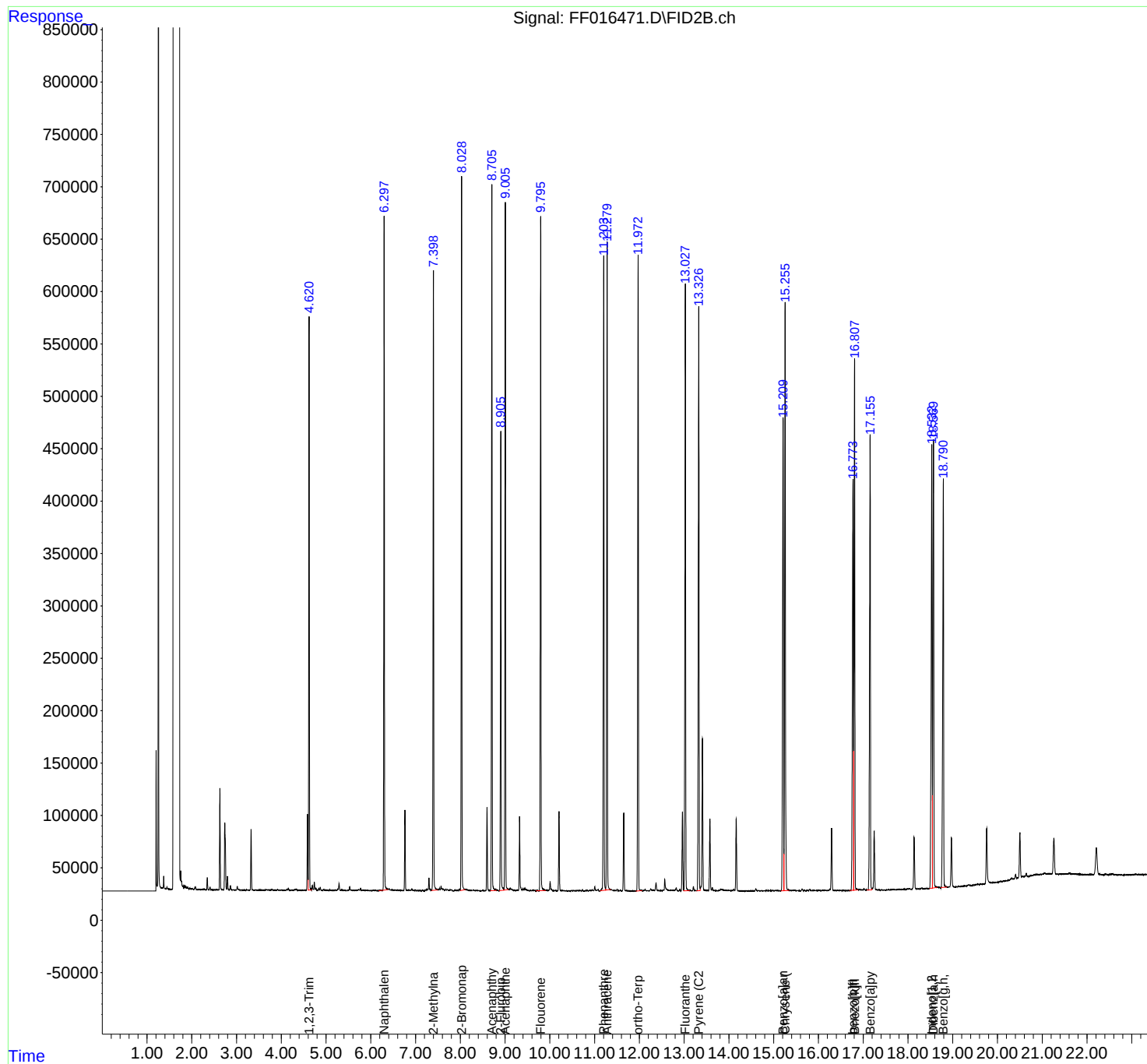
(m)=manual int.

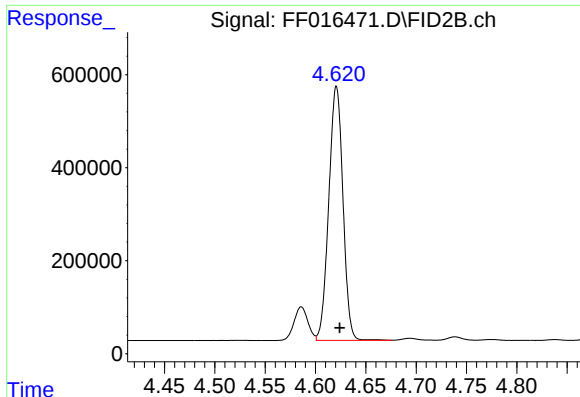
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016471.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:05
Operator : YP\AJ
Sample : PB169879BS
Misc :
ALS Vial : 82 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
PB169879BS

Integration File: autoint1.e
Quant Time: Sep 30 01:04:07 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

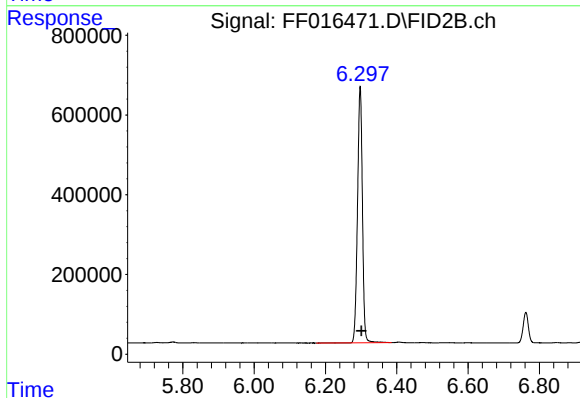




#1 1,2,3-Trimethylbenzene (C10.1)

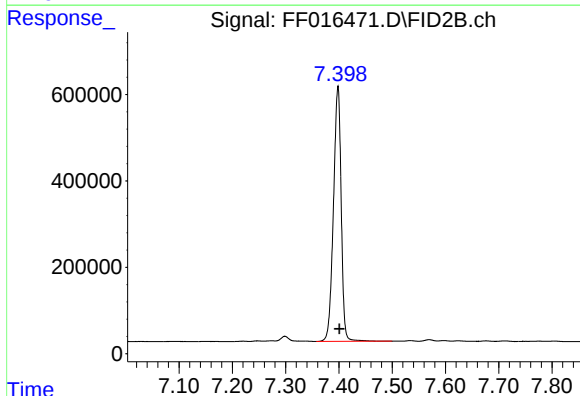
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 5352626
Conc: 37.97 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



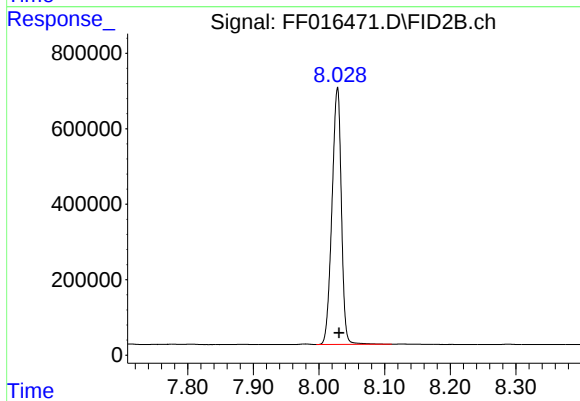
#2 Naphthalene (C11.7)

R.T.: 6.297 min
Delta R.T.: -0.004 min
Response: 6116562
Conc: 41.99 ug/ml



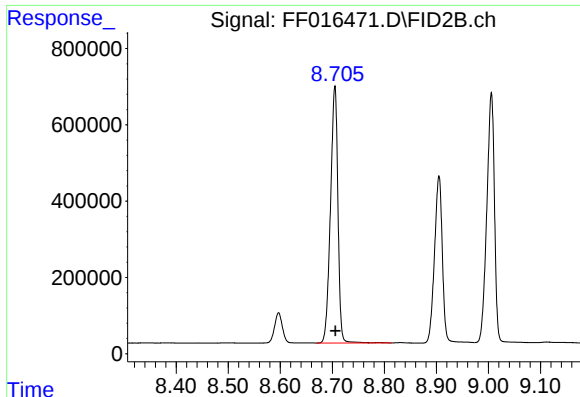
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.398 min
Delta R.T.: -0.003 min
Response: 5957164
Conc: 40.46 ug/ml



#4 2-Bromonaphthalene (SURR)

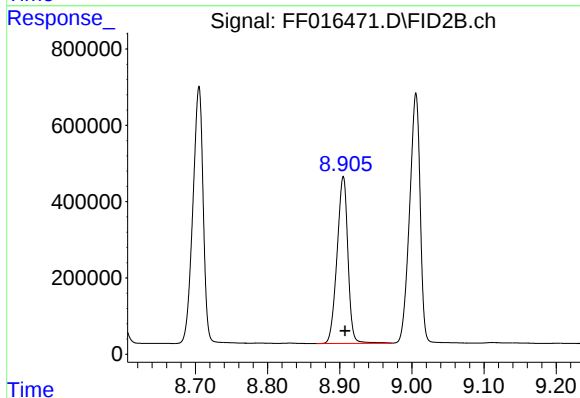
R.T.: 8.028 min
Delta R.T.: -0.003 min
Response: 6761441
Conc: 53.98 ug/ml



#5 Acenaphthylene (C15.06)

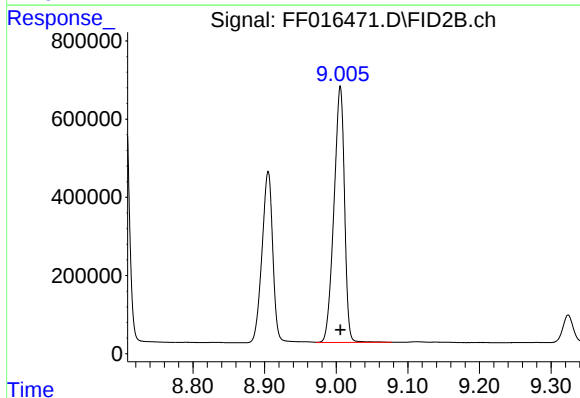
R.T.: 8.705 min
Delta R.T.: -0.002 min
Response: 6686342
Conc: 46.14 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



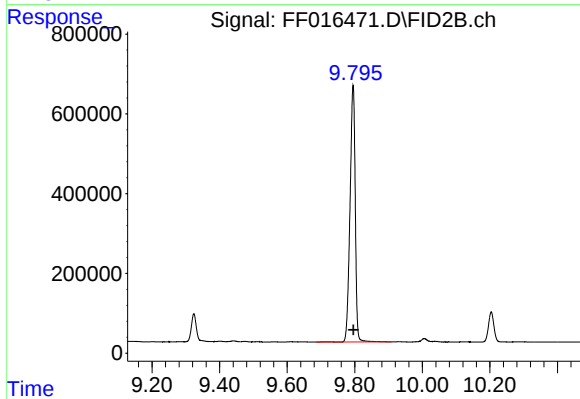
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.905 min
Delta R.T.: -0.003 min
Response: 4591039
Conc: 54.44 ug/ml



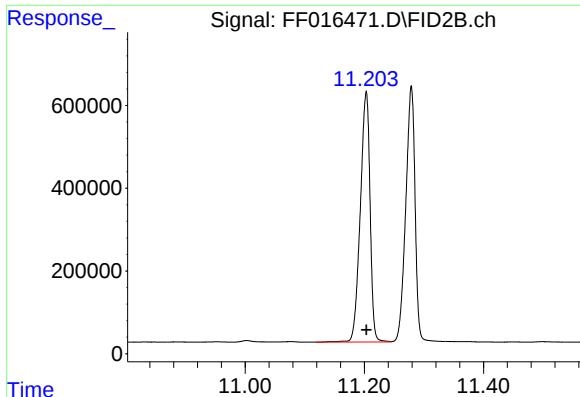
#7 Acenaphthene (C15.5)

R.T.: 9.005 min
Delta R.T.: 0.000 min
Response: 6706149
Conc: 46.76 ug/ml



#8 Fluorene (C16.55)

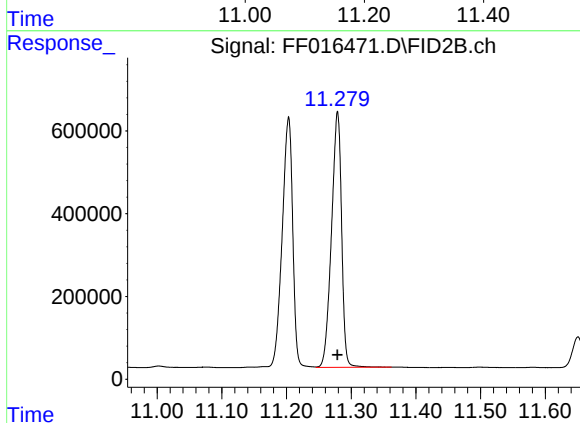
R.T.: 9.795 min
Delta R.T.: 0.000 min
Response: 6915095
Conc: 47.87 ug/ml



#9 Phenanthrene (C19.36)

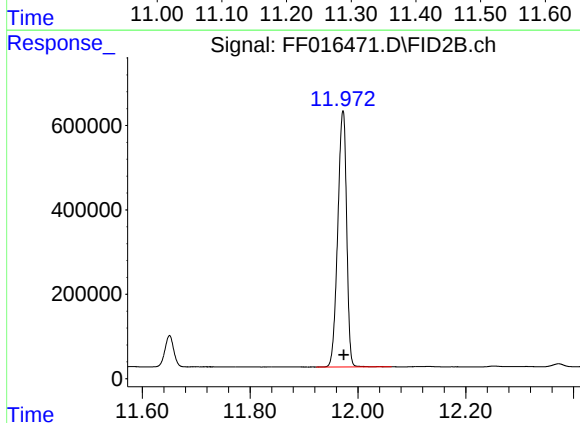
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 6857027
Conc: 47.01 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



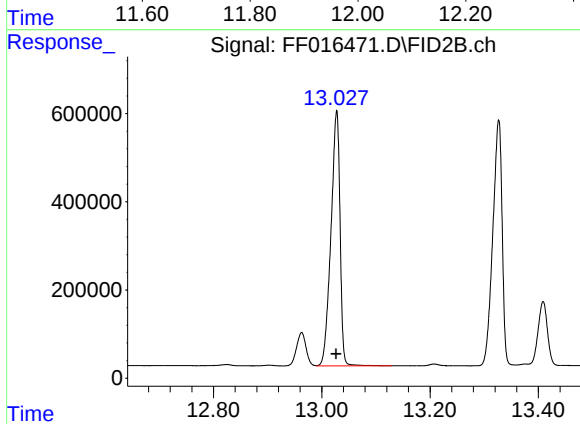
#10 Anthracene (C19.43)

R.T.: 11.279 min
Delta R.T.: 0.000 min
Response: 6695772
Conc: 46.80 ug/ml



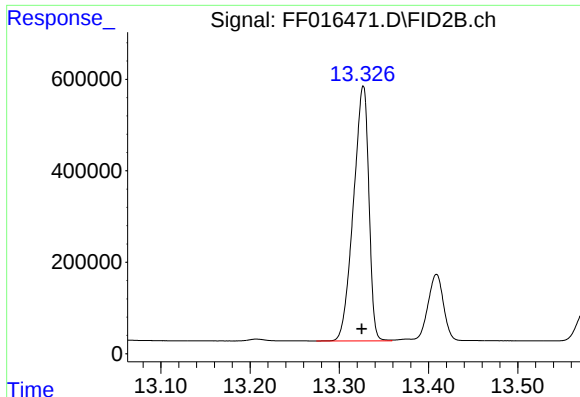
#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 6923797
Conc: 45.42 ug/ml



#12 Fluoranthene (C21.85)

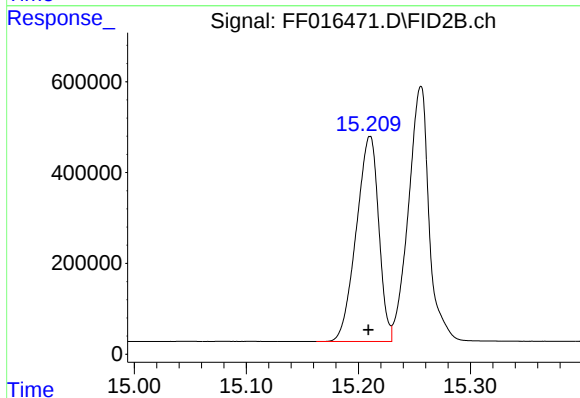
R.T.: 13.027 min
Delta R.T.: 0.000 min
Response: 6718611
Conc: 46.00 ug/ml



#13 Pyrene (C20.8)

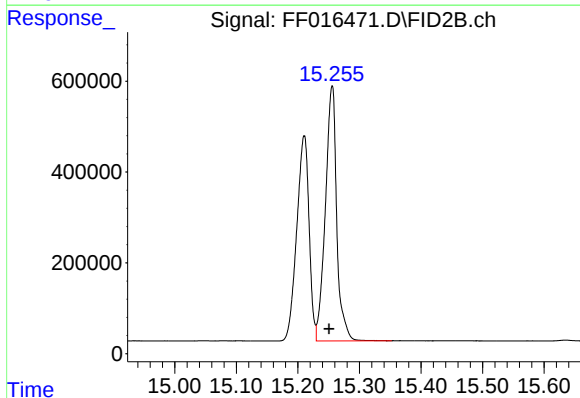
R.T.: 13.326 min
Delta R.T.: 0.001 min
Response: 6679023
Conc: 46.61 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



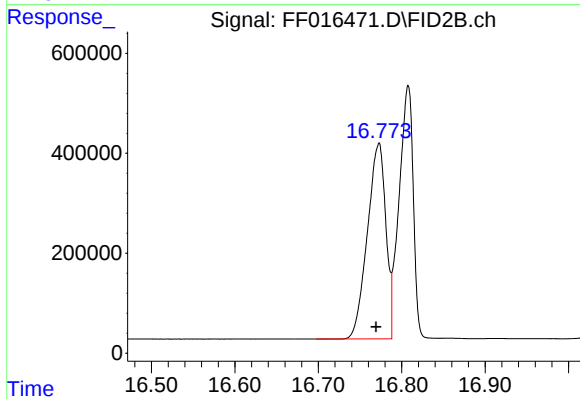
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.210 min
Delta R.T.: 0.001 min
Response: 6281921
Conc: 46.15 ug/ml



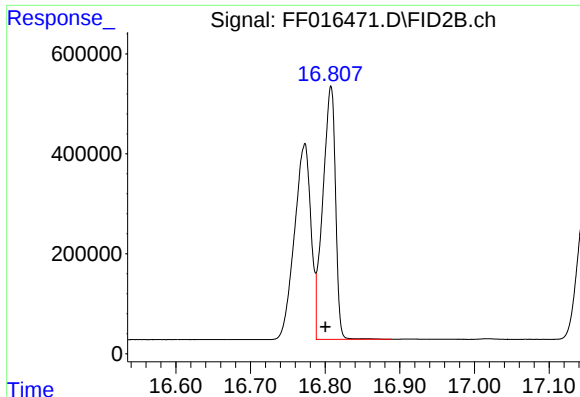
#15 Chrysene (C27.41)

R.T.: 15.255 min
Delta R.T.: 0.005 min
Response: 7217787
Conc: 50.60 ug/ml



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

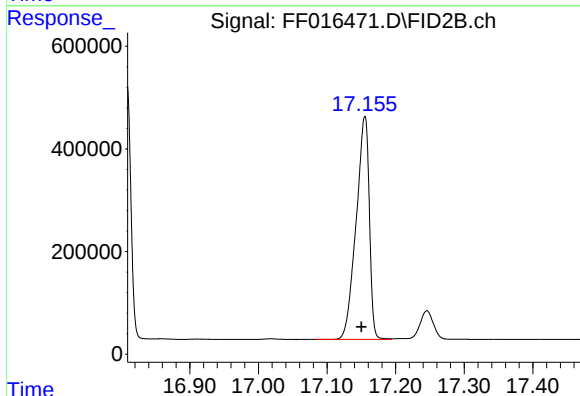
R.T.: 16.772 min
Delta R.T.: 0.003 min
Response: 6002410
Conc: 45.68 ug/ml



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

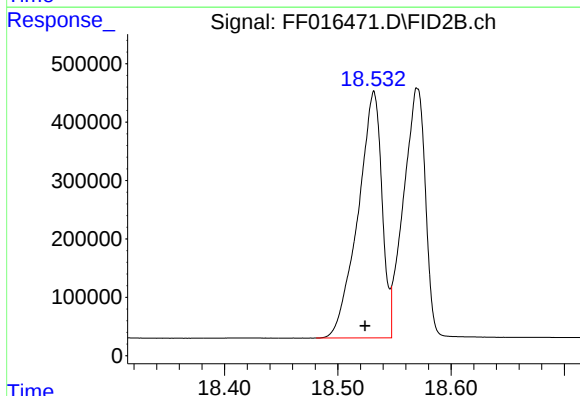
R.T.: 16.807 min
Delta R.T.: 0.007 min
Response: 6001192
Conc: 47.68 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS



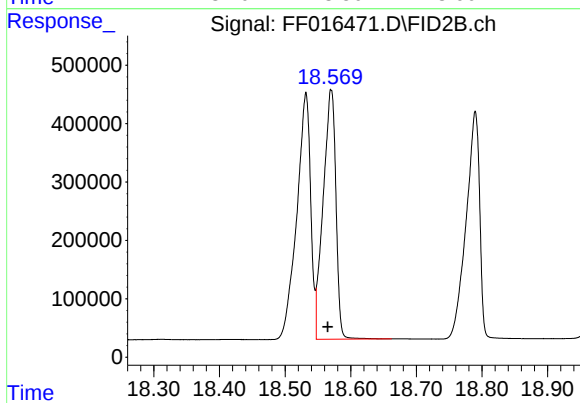
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min
Delta R.T.: 0.005 min
Response: 5801355
Conc: 45.43 ug/ml



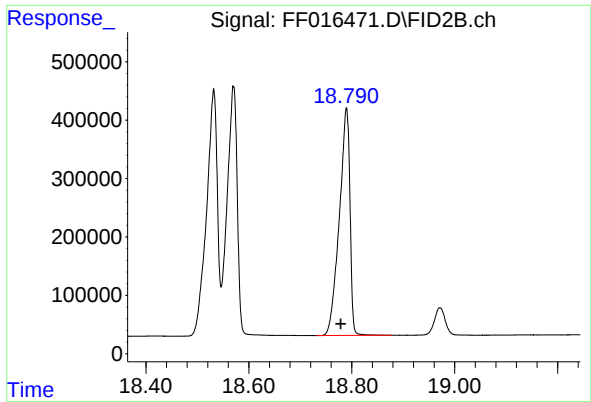
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.531 min
Delta R.T.: 0.007 min
Response: 6219562
Conc: 54.54 ug/ml



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

R.T.: 18.570 min
Delta R.T.: 0.005 min
Response: 5756376
Conc: 44.09 ug/ml



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

R.T.: 18.789 min
Delta R.T.: 0.011 min
Response: 5601678
Conc: 45.49 ug/ml

Instrument :
FID_F
ClientSampleId :
PB169879BS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016471.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 17:05
Sample : PB169879BS
Misc :
ALS Vial : 82 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	4.601	4.676	VV	547005	5352626	74.16%	4.060%
2	6.297	6.174	6.386	BV	643503	6116562	84.74%	4.639%
3	7.398	7.357	7.499	BB	587400	5957164	82.53%	4.518%
4	8.028	7.996	8.111	PV	678078	6761441	93.68%	5.128%
5	8.705	8.669	8.814	BV	670643	6686342	92.64%	5.071%
6	8.905	8.867	8.972	BV	437092	4591039	63.61%	3.482%
7	9.005	8.972	9.077	VV	657841	6706149	92.91%	5.086%
8	9.795	9.686	9.909	BV	647038	6915095	95.81%	5.245%
9	11.203	11.119	11.246	BV	601389	6857027	95.00%	5.201%
10	11.279	11.246	11.362	VB	620549	6695772	92.77%	5.079%
11	11.972	11.922	12.062	BB	608122	6923797	95.93%	5.252%
12	13.027	12.990	13.129	VB	579571	6718611	93.08%	5.096%
13	13.326	13.274	13.359	BV	557027	6679023	92.54%	5.066%
14	15.210	15.162	15.230	BV	452765	6281921	87.03%	4.765%
15	15.255	15.230	15.352	VB	563241	7217787	100.00%	5.475%
16	16.772	16.697	16.788	BV	391581	6002410	83.16%	4.553%
17	16.807	16.788	16.889	VB	508019	6001192	83.14%	4.552%
18	17.155	17.084	17.194	BV	434131	5801355	80.38%	4.400%
19	18.531	18.481	18.547	BV	420184	6219562	86.17%	4.717%
20	18.570	18.547	18.662	VB	427620	5756376	79.75%	4.366%
21	18.789	18.731	18.877	BB	390221	5601678	77.61%	4.249%
Sum of corrected areas:						131842928		

Aromatic EPH 092425.M Tue Sep 30 01:27:59 2025

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.:	Q3179	
Lab Sample ID:	Q3179-02		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056056.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	333		8.28	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	293		13.5	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	404		8.34	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	486		12.5	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	1130		23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	59.0		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3179-02	Acq On:	29 Sep 2025 20:27
Client Sample ID:	EME-TS14-01MS	Operator:	YP\AJ
Data file:	FE056056.D	Misc:	
Instrument:	FID_E	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	23325505	166.577	300	ug/ml
Aliphatic C12-C16	6.947	10.396	22517640	146.813	200	ug/ml
Aliphatic C16-C21	10.397	13.773	33564962	202.345	300	ug/ml
Aliphatic C21-C28	13.774	17.443	36153890	243.416	400	ug/ml
Aliphatic C28-C40	17.444	22.449	77058424	565.558	600	ug/ml
Aliphatic EPH	3.315	22.449	192620421	1320		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	8241176	59.05		ug/ml
Aliphatic C9-C28	3.315	17.443	115561997	759.151	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
 Data File : FE056056.D
 Signal(s) : FID1B.ch
 Acq On : 29 Sep 2025 20:27
 Operator : YP\AJ
 Sample : Q3179-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 EME-TS14-01MS

Integration File: autoint1.e
 Quant Time: Sep 30 00:31:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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			
12) S 1-chlorooctadecane (S...	13.512	8241176	59.049 ug/ml
Spiked Amount 50.000		Recovery =	118.10%
Target Compounds			
1) T n-Nonane (C9)	3.417	5766711	42.095 ug/ml
2) T n-Decane (C10)	4.676	7141108	51.168 ug/ml
4) T n-Dodecane (C12)	6.850	8564543	59.671 ug/ml
6) T n-Tetradecane (C14)	8.687	9479288	64.116 ug/ml
7) T n-Hexadecane (C16)	10.301	10442627	65.715 ug/ml
8) T n-Octadecane (C18)	11.750	10836487	63.976 ug/ml
10) T n-Eicosane (C20)	13.066	10924367	65.903 ug/ml
11) T n-Heneicosane (C21)	13.680	10172257	62.602 ug/ml
13) T n-Docosane (C22)	14.267	9756059	61.055 ug/ml
14) T n-Tetracosane (C24)	15.374	9010437	59.131 ug/ml
15) T n-Hexacosane (C26)	16.396	8341622	58.484 ug/ml
16) T n-Octacosane (C28)	17.349	8067644	57.913 ug/ml
17) T n-Tricontane (C30)	18.238	8292786	55.964 ug/ml
18) T n-Dotriacontane (C32)	19.073	8500117	56.972 ug/ml
19) T n-Tetratriacontane (C34)	19.859	8822187	62.369 ug/ml
20) T n-Hexatriacontane (C36)	20.601	9062793	70.599 ug/ml
21) T n-Octatriacontane (C38)	21.378	9363961	71.294 ug/ml
22) T n-Tetracontane (C40)	22.361	8664314	72.829 ug/ml

(f)=RT Delta > 1/2 Window

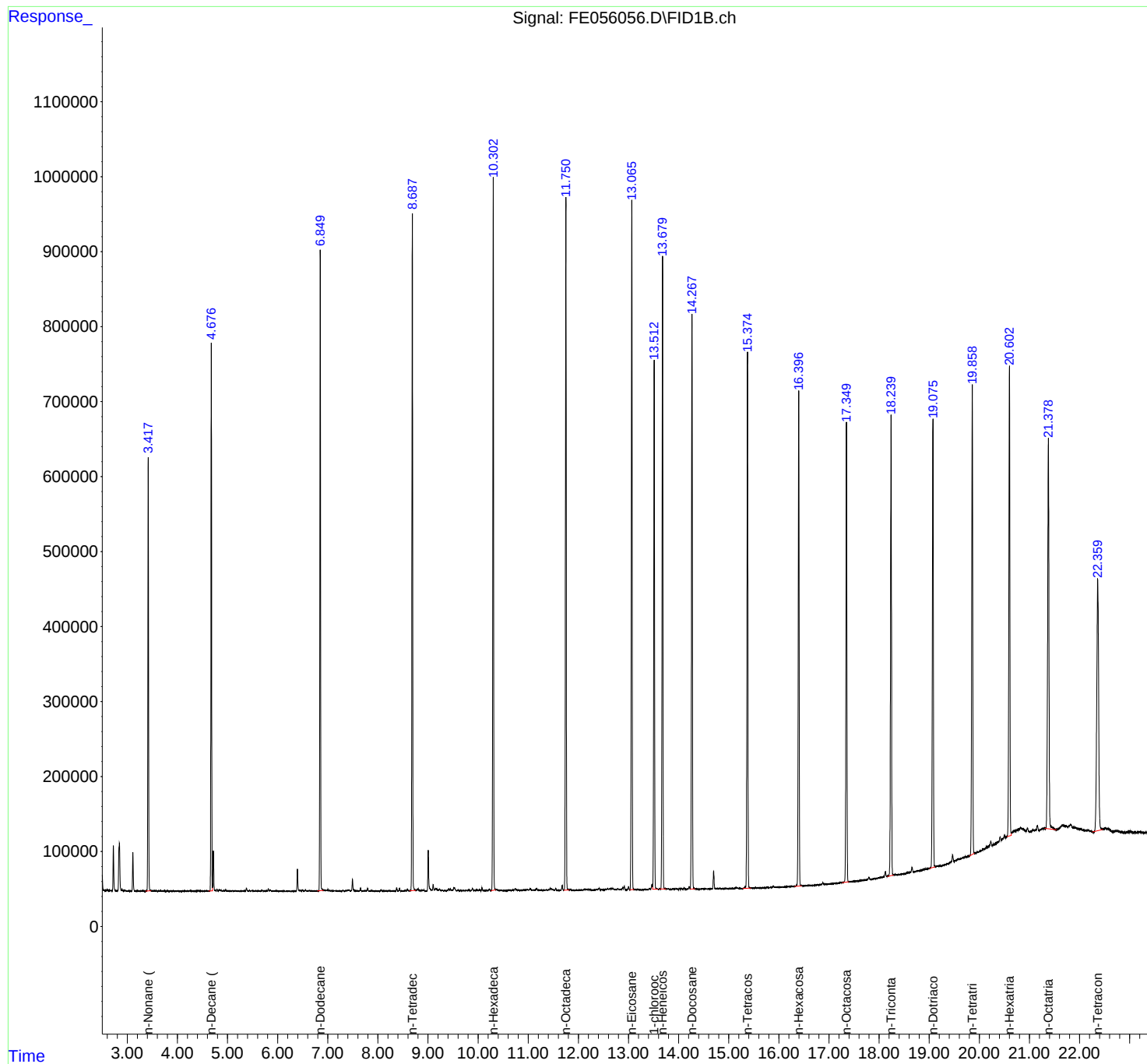
(m)=manual int.

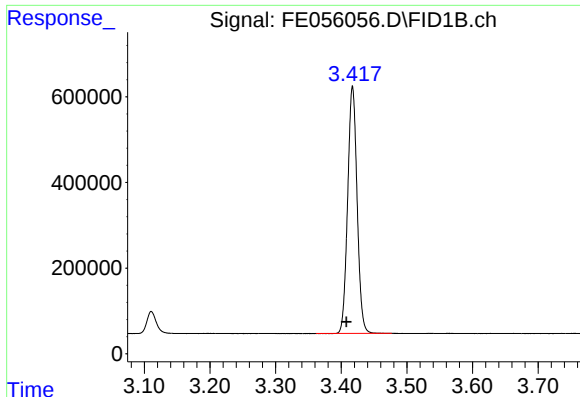
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056056.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:27
Operator : YP\AJ
Sample : Q3179-02
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 30 00:31:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

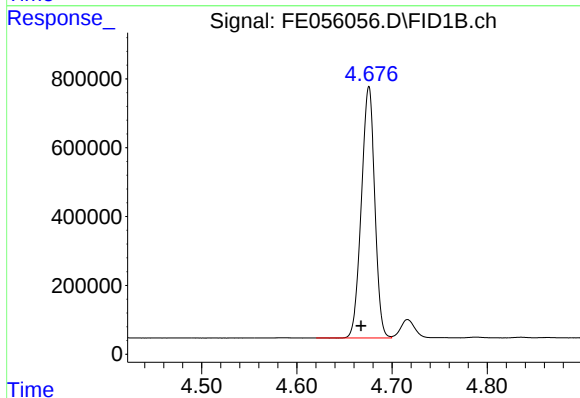




#1 n-Nonane (C9)

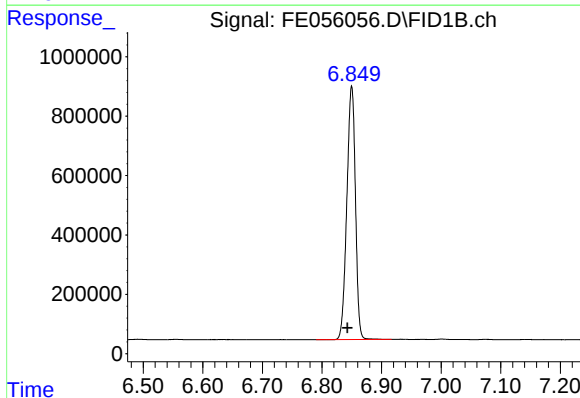
R.T.: 3.417 min
Delta R.T.: 0.009 min
Response: 5766711
Conc: 42.10 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



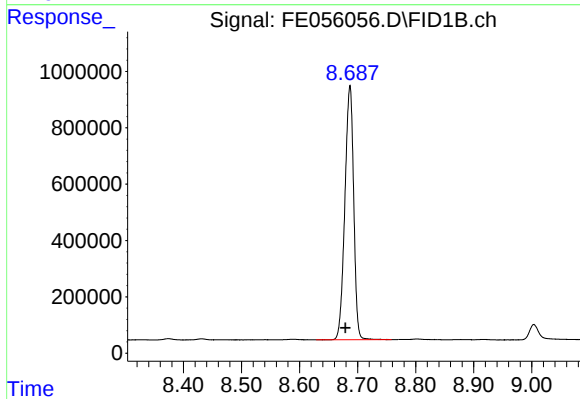
#2 n-Decane (C10)

R.T.: 4.676 min
Delta R.T.: 0.008 min
Response: 7141108
Conc: 51.17 ug/ml



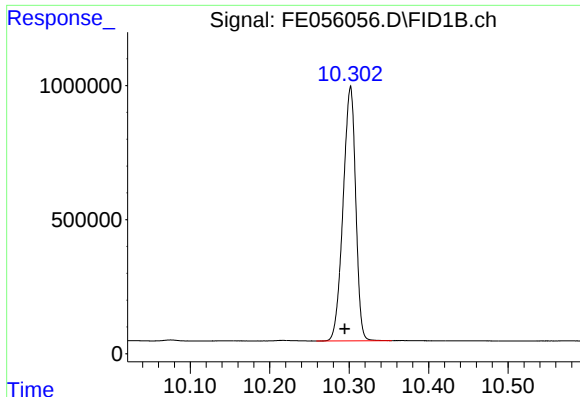
#4 n-Dodecane (C12)

R.T.: 6.850 min
Delta R.T.: 0.007 min
Response: 8564543
Conc: 59.67 ug/ml



#6 n-Tetradecane (C14)

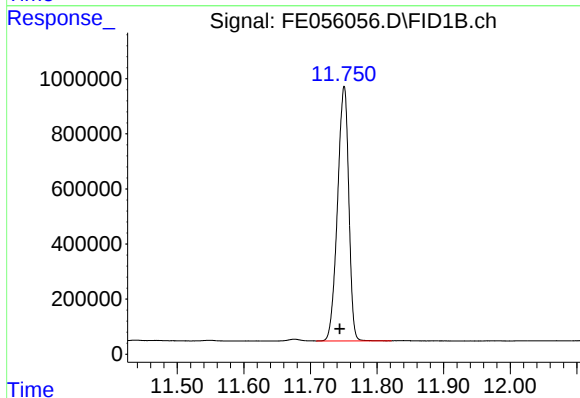
R.T.: 8.687 min
Delta R.T.: 0.007 min
Response: 9479288
Conc: 64.12 ug/ml



#7 n-Hexadecane (C16)

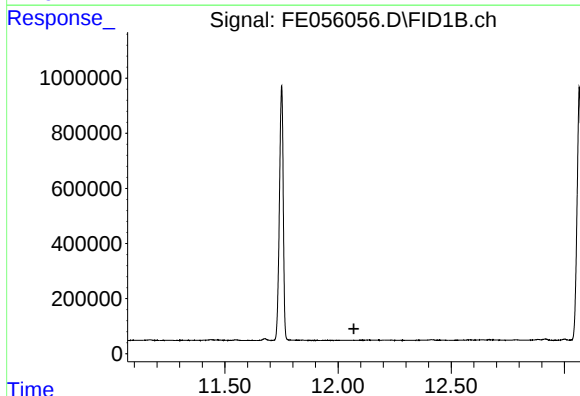
R.T.: 10.301 min
Delta R.T.: 0.007 min
Response: 10442627
Conc: 65.71 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



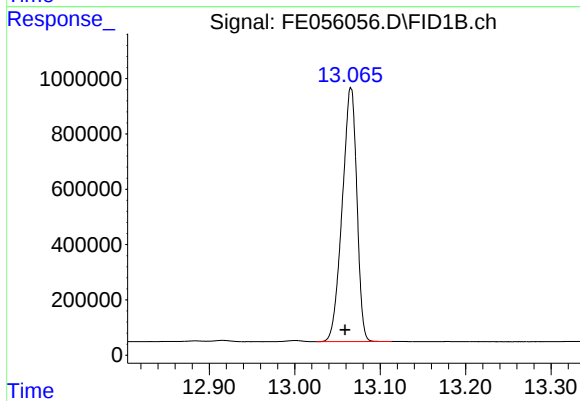
#8 n-Octadecane (C18)

R.T.: 11.750 min
Delta R.T.: 0.006 min
Response: 10836487
Conc: 63.98 ug/ml



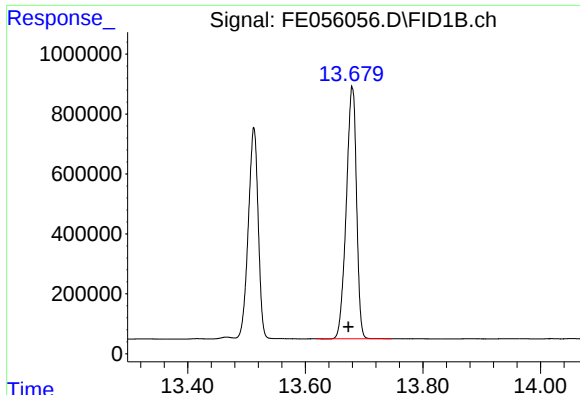
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

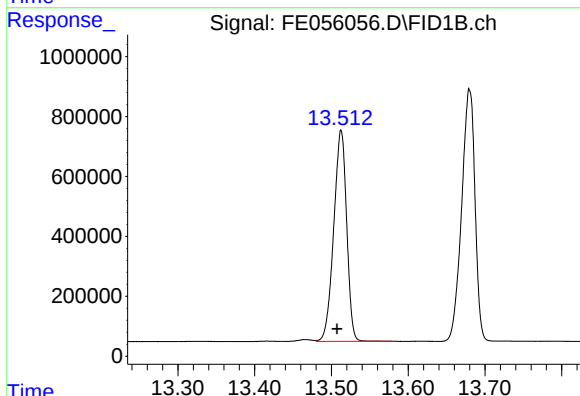
R.T.: 13.066 min
Delta R.T.: 0.007 min
Response: 10924367
Conc: 65.90 ug/ml



#11 n-Heneicosane (C21)

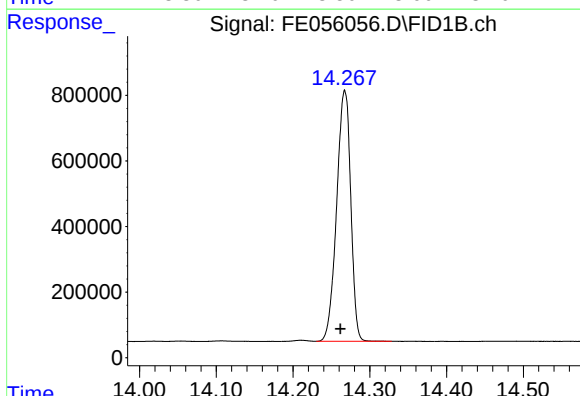
R.T.: 13.680 min
Delta R.T.: 0.007 min
Response: 10172257
Conc: 62.60 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



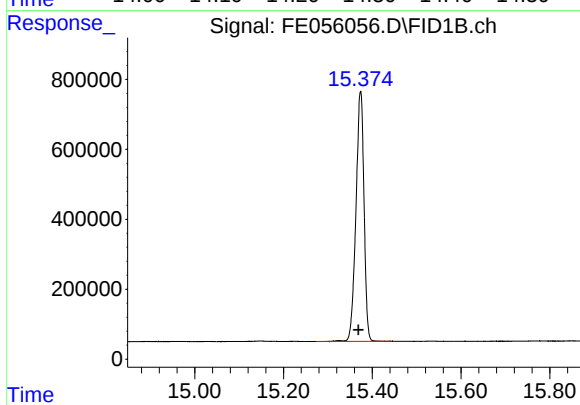
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.005 min
Response: 8241176
Conc: 59.05 ug/ml



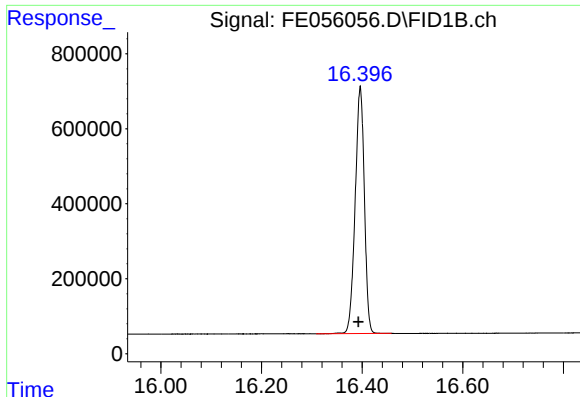
#13 n-Docosane (C22)

R.T.: 14.267 min
Delta R.T.: 0.006 min
Response: 9756059
Conc: 61.06 ug/ml



#14 n-Tetracosane (C24)

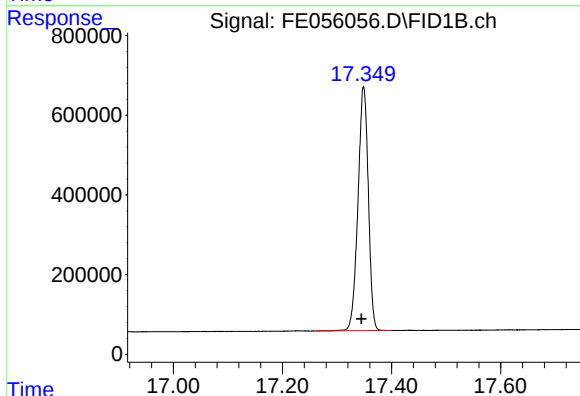
R.T.: 15.374 min
Delta R.T.: 0.005 min
Response: 9010437
Conc: 59.13 ug/ml



#15 n-Hexacosane (C26)

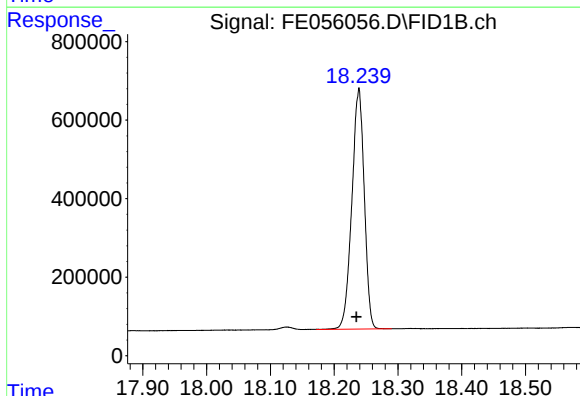
R.T.: 16.396 min
Delta R.T.: 0.004 min
Response: 8341622
Conc: 58.48 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



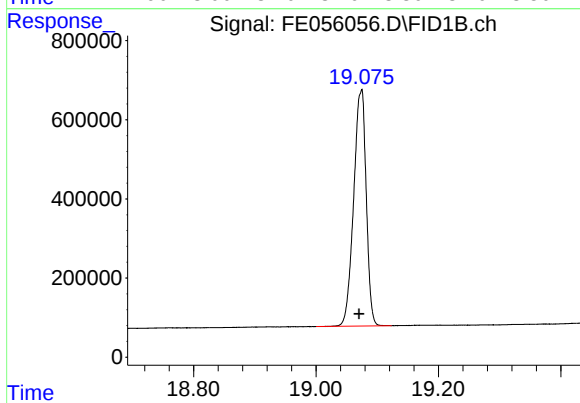
#16 n-Octacosane (C28)

R.T.: 17.349 min
Delta R.T.: 0.004 min
Response: 8067644
Conc: 57.91 ug/ml



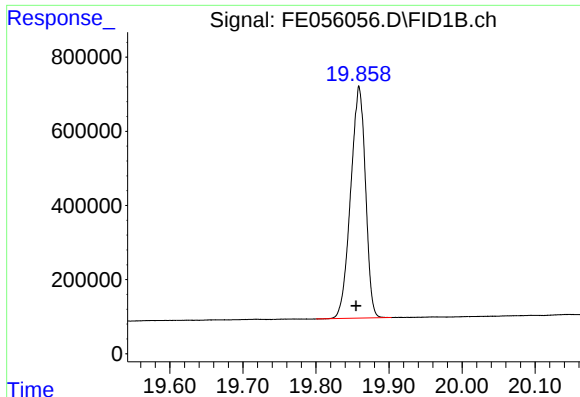
#17 n-Tricontane (C30)

R.T.: 18.238 min
Delta R.T.: 0.004 min
Response: 8292786
Conc: 55.96 ug/ml



#18 n-Dotriacontane (C32)

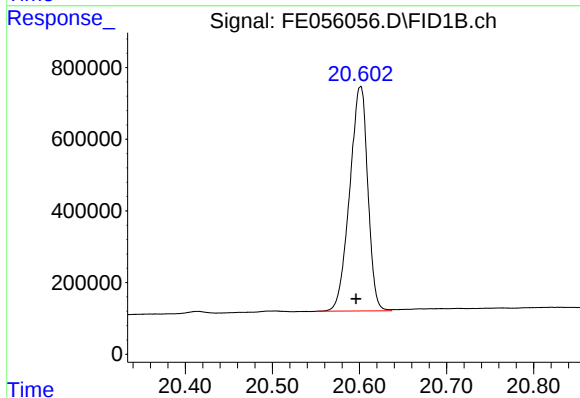
R.T.: 19.073 min
Delta R.T.: 0.003 min
Response: 8500117
Conc: 56.97 ug/ml



#19 n-Tetratriacontane (C34)

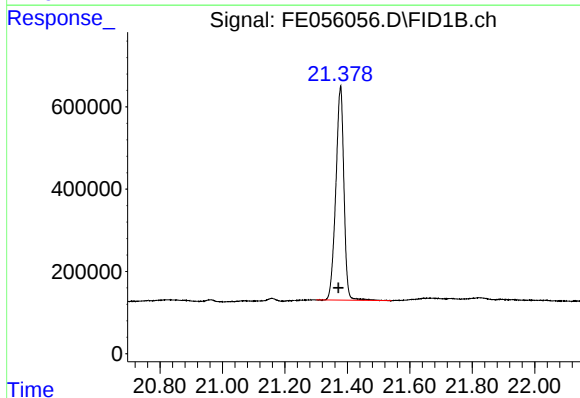
R.T.: 19.859 min
Delta R.T.: 0.004 min
Response: 8822187
Conc: 62.37 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MS



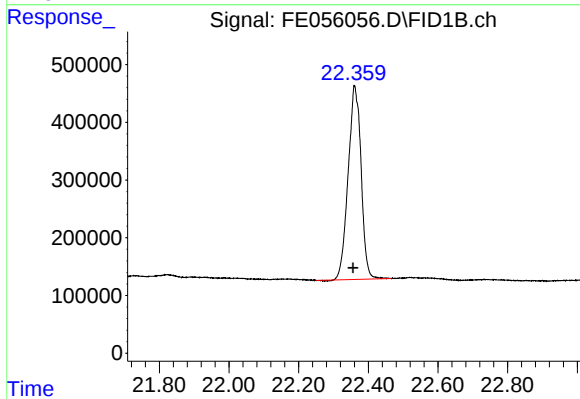
#20 n-Hexatriacontane (C36)

R.T.: 20.601 min
Delta R.T.: 0.005 min
Response: 9062793
Conc: 70.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min
Delta R.T.: 0.006 min
Response: 9363961
Conc: 71.29 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.361 min
Delta R.T.: 0.004 min
Response: 8664314
Conc: 72.83 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056056.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:27
Sample : Q3179-02MS
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.841	2.804	2.878	BV	63326	1045333	9.02%	0.516%
2	2.891	2.878	2.936	VV	1781	22825	0.20%	0.011%
3	2.956	2.936	2.984	VV	1044	12552	0.11%	0.006%
4	2.997	2.984	3.014	VV	124	1274	0.01%	0.001%
5	3.054	3.014	3.084	PV	279	3266	0.03%	0.002%
6	3.111	3.084	3.165	PV	51427	515116	4.44%	0.254%
7	3.198	3.165	3.254	VV	349	8252	0.07%	0.004%
8	3.289	3.254	3.316	VV	248	4308	0.04%	0.002%
9	3.333	3.316	3.348	VV	82	941	0.01%	0.000%
10	3.352	3.348	3.379	VV	68	852	0.01%	0.000%
11	3.417	3.379	3.518	VV	576537	5793382	49.98%	2.860%
12	3.535	3.518	3.549	VV	428	5954	0.05%	0.003%
13	3.564	3.549	3.615	VV	481	10924	0.09%	0.005%
14	3.629	3.615	3.648	VV	382	4760	0.04%	0.002%
15	3.662	3.648	3.688	VV	366	5772	0.05%	0.003%
16	3.704	3.688	3.724	VV	222	3807	0.03%	0.002%
17	3.734	3.724	3.748	VV	407	4881	0.04%	0.002%
18	3.754	3.748	3.778	VV	455	4148	0.04%	0.002%
19	3.792	3.778	3.841	VV	475	9309	0.08%	0.005%
20	3.862	3.841	3.886	PV	207	3155	0.03%	0.002%
21	3.909	3.886	3.927	VV	139	1881	0.02%	0.001%
22	3.945	3.927	3.984	VV	109	1397	0.01%	0.001%
23	4.009	3.984	4.055	VV	330	5844	0.05%	0.003%
24	4.065	4.055	4.083	VV	124	1094	0.01%	0.001%
25	4.108	4.083	4.168	VV	296	6653	0.06%	0.003%
26	4.179	4.168	4.184	PV	90	558	0.00%	0.000%
27	4.214	4.184	4.230	VV	614	7325	0.06%	0.004%
28	4.247	4.230	4.275	VV	871	9966	0.09%	0.005%
29	4.285	4.275	4.304	VV	157	1498	0.01%	0.001%
30	4.323	4.304	4.348	VV	364	4547	0.04%	0.002%
31	4.355	4.348	4.364	VV	87	714	0.01%	0.000%
32	4.417	4.364	4.441	VV	753	18160	0.16%	0.009%
33	4.451	4.441	4.464	VV	190	2077	0.02%	0.001%
34	4.481	4.464	4.503	VV	256	4285	0.04%	0.002%
35	4.585	4.503	4.607	VV	733	16918	0.15%	0.008%
36	4.618	4.607	4.638	VV	341	4359	0.04%	0.002%

rteres.txt								
37	4.675	4.638	4.700	VV	725396	7156232	61.74%	3.533%
38	4.717	4.700	4.769	VV	53397	579840	5.00%	0.286%
39	4.788	4.769	4.816	VV	2640	37454	0.32%	0.018%
40	4.836	4.816	4.851	VV	2408	29272	0.25%	0.014%
41	4.864	4.851	4.909	VV	1593	31017	0.27%	0.015%
42	4.925	4.909	4.941	VV	1068	13714	0.12%	0.007%
43	4.959	4.941	4.977	VV	1942	22394	0.19%	0.011%
44	4.990	4.977	5.026	VV	737	15756	0.14%	0.008%
45	5.042	5.026	5.051	VV	586	7506	0.06%	0.004%
46	5.064	5.051	5.077	VV	667	8711	0.08%	0.004%
47	5.096	5.077	5.122	VV	796	15219	0.13%	0.008%
48	5.150	5.122	5.241	VV	485	23760	0.20%	0.012%
49	5.259	5.241	5.274	VV	297	4543	0.04%	0.002%
50	5.290	5.274	5.305	VV	537	7646	0.07%	0.004%
51	5.319	5.305	5.331	VV	653	7604	0.07%	0.004%
52	5.349	5.331	5.357	VV	618	8703	0.08%	0.004%
53	5.377	5.357	5.411	VV	4319	53949	0.47%	0.027%
54	5.438	5.411	5.461	VV	1491	19968	0.17%	0.010%
55	5.488	5.461	5.519	VV	907	17114	0.15%	0.008%
56	5.564	5.519	5.576	VV	651	12625	0.11%	0.006%
57	5.584	5.576	5.596	VV	507	5811	0.05%	0.003%
58	5.612	5.596	5.658	VV	536	13864	0.12%	0.007%
59	5.698	5.658	5.738	VV	794	25066	0.22%	0.012%
60	5.753	5.738	5.767	VV	666	9709	0.08%	0.005%
61	5.777	5.767	5.794	VV	586	7232	0.06%	0.004%
62	5.814	5.794	5.836	VV	3420	39929	0.34%	0.020%
63	5.857	5.836	5.878	VV	1734	21497	0.19%	0.011%
64	5.917	5.878	5.931	VV	599	11266	0.10%	0.006%
65	5.962	5.931	5.973	VV	634	11206	0.10%	0.006%
66	5.988	5.973	6.029	VV	681	17062	0.15%	0.008%
67	6.039	6.029	6.055	VV	247	3168	0.03%	0.002%
68	6.078	6.055	6.090	VV	308	4545	0.04%	0.002%
69	6.109	6.090	6.154	VV	466	11480	0.10%	0.006%
70	6.186	6.154	6.208	VV	282	5625	0.05%	0.003%
71	6.210	6.208	6.228	VV	237	1665	0.01%	0.001%
72	6.246	6.228	6.268	VV	136	2772	0.02%	0.001%
73	6.294	6.268	6.318	PV	470	5994	0.05%	0.003%
74	6.342	6.318	6.358	VV	313	5166	0.04%	0.003%
75	6.394	6.358	6.433	VV	29569	325304	2.81%	0.161%
76	6.444	6.433	6.474	VV	1245	23466	0.20%	0.012%
77	6.491	6.474	6.519	VV	1716	26044	0.22%	0.013%
78	6.555	6.519	6.581	VV	1407	25392	0.22%	0.013%
79	6.632	6.581	6.709	VV	758	38761	0.33%	0.019%
80	6.732	6.709	6.753	VV	628	11731	0.10%	0.006%
81	6.779	6.753	6.810	VV	418	11403	0.10%	0.006%
82	6.850	6.810	6.917	VV	859411	8622647	74.39%	4.257%
83	6.933	6.917	6.952	VV	1694	29512	0.25%	0.015%
84	6.970	6.952	6.988	VV	1373	23183	0.20%	0.011%
85	7.001	6.988	7.022	VV	2354	31588	0.27%	0.016%
86	7.033	7.022	7.057	VV	1008	17012	0.15%	0.008%
87	7.075	7.057	7.112	VV	1373	23167	0.20%	0.011%
88	7.144	7.112	7.163	VV	910	17302	0.15%	0.009%
89	7.177	7.163	7.207	VV	470	9015	0.08%	0.004%

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90	7.222	7.207	7.240	VV	418	5485	0.05%	0.003%
91	7.254	7.240	7.278	VV	313	5276	0.05%	0.003%
92	7.302	7.278	7.337	VV	1217	20923	0.18%	0.010%
93	7.359	7.337	7.374	VV	1345	18313	0.16%	0.009%
94	7.426	7.374	7.455	VV	2031	55379	0.48%	0.027%
95	7.493	7.455	7.579	VV	15892	213886	1.85%	0.106%
96	7.597	7.579	7.620	VV	657	10834	0.09%	0.005%
97	7.653	7.620	7.681	VV	4540	54799	0.47%	0.027%
98	7.731	7.681	7.750	VV	797	20362	0.18%	0.010%
99	7.764	7.750	7.774	VV	749	8274	0.07%	0.004%
100	7.796	7.774	7.820	VV	3861	46957	0.41%	0.023%
101	7.834	7.820	7.844	VV	405	4835	0.04%	0.002%
102	7.864	7.844	7.878	VV	872	11950	0.10%	0.006%
103	7.890	7.878	7.934	VV	763	10166	0.09%	0.005%
104	7.961	7.934	7.998	VV	417	6150	0.05%	0.003%
105	8.014	7.998	8.041	PV	230	3163	0.03%	0.002%
106	8.064	8.041	8.083	VV	1653	18393	0.16%	0.009%
107	8.125	8.083	8.191	VV	568	21928	0.19%	0.011%
108	8.231	8.191	8.274	VV	645	16782	0.14%	0.008%
109	8.286	8.274	8.309	VV	314	5045	0.04%	0.002%
110	8.330	8.309	8.348	VV	469	6026	0.05%	0.003%
111	8.374	8.348	8.401	VV	4411	48056	0.41%	0.024%
112	8.431	8.401	8.454	VV	3893	43000	0.37%	0.021%
113	8.465	8.454	8.499	VV	452	7461	0.06%	0.004%
114	8.542	8.499	8.556	VV	795	13343	0.12%	0.007%
115	8.589	8.556	8.628	VV	2283	43270	0.37%	0.021%
116	8.642	8.628	8.650	VV	644	7356	0.06%	0.004%
117	8.687	8.650	8.759	VV	910132	9533849	82.25%	4.707%
118	8.802	8.759	8.858	VV	3168	86001	0.74%	0.042%
119	8.876	8.858	8.900	VV	1174	21295	0.18%	0.011%
120	8.917	8.900	8.960	VV	1630	20681	0.18%	0.010%
121	9.004	8.960	9.081	VV	54278	673264	5.81%	0.332%
122	9.102	9.081	9.124	VV	8757	107500	0.93%	0.053%
123	9.157	9.124	9.207	VV	2868	102035	0.88%	0.050%
124	9.225	9.207	9.269	VV	2115	49715	0.43%	0.025%
125	9.290	9.269	9.320	VV	992	16296	0.14%	0.008%
126	9.343	9.320	9.371	VV	759	13118	0.11%	0.006%
127	9.415	9.371	9.434	VV	2875	54940	0.47%	0.027%
128	9.448	9.434	9.488	VV	1973	42515	0.37%	0.021%
129	9.528	9.488	9.582	VV	4630	112805	0.97%	0.056%
130	9.601	9.582	9.626	VV	1118	15082	0.13%	0.007%
131	9.651	9.626	9.678	VV	743	11112	0.10%	0.005%
132	9.700	9.678	9.717	VV	506	8089	0.07%	0.004%
133	9.734	9.717	9.744	VV	551	7159	0.06%	0.004%
134	9.753	9.744	9.765	VV	509	5490	0.05%	0.003%
135	9.771	9.765	9.784	VV	448	4499	0.04%	0.002%
136	9.816	9.784	9.838	VV	1267	24042	0.21%	0.012%
137	9.888	9.838	9.918	VV	2983	53053	0.46%	0.026%
138	9.935	9.918	9.948	VV	1136	13283	0.11%	0.007%
139	9.975	9.948	10.001	VV	1201	25202	0.22%	0.012%
140	10.026	10.001	10.052	VV	1364	26592	0.23%	0.013%
141	10.075	10.052	10.119	VV	3972	49893	0.43%	0.025%

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142	10.151	10.119	10.177	VV	658	14061	0.12%	0.007%
143	10.217	10.177	10.260	VV	2346	42400	0.37%	0.021%
144	10.301	10.260	10.355	VV	945742	10491213	90.51%	5.180%
145	10.365	10.355	10.425	VV	1566	43777	0.38%	0.022%
146	10.445	10.425	10.494	VV	656	16836	0.15%	0.008%
147	10.511	10.494	10.520	VV	106	943	0.01%	0.000%
148	10.546	10.520	10.558	PV	257	3868	0.03%	0.002%
149	10.577	10.558	10.592	VV	511	6776	0.06%	0.003%
150	10.621	10.592	10.658	VV	811	20804	0.18%	0.010%
151	10.692	10.658	10.711	VV	1250	24242	0.21%	0.012%
152	10.738	10.711	10.820	VV	2571	74467	0.64%	0.037%
153	10.849	10.820	10.868	VV	879	16837	0.15%	0.008%
154	10.901	10.868	10.914	VV	1016	19500	0.17%	0.010%
155	10.940	10.914	10.952	VV	1060	20737	0.18%	0.010%
156	10.972	10.952	11.003	VV	1312	31923	0.28%	0.016%
157	11.039	11.003	11.075	VV	2268	51080	0.44%	0.025%
158	11.096	11.075	11.114	VV	1078	17712	0.15%	0.009%
159	11.126	11.114	11.137	VV	955	11109	0.10%	0.005%
160	11.169	11.137	11.219	VV	2482	53920	0.47%	0.027%
161	11.235	11.219	11.244	VV	679	7839	0.07%	0.004%
162	11.259	11.244	11.288	VV	707	13945	0.12%	0.007%
163	11.325	11.288	11.340	VV	587	14305	0.12%	0.007%
164	11.362	11.340	11.389	VV	924	19584	0.17%	0.010%
165	11.409	11.389	11.416	VV	1163	14081	0.12%	0.007%
166	11.438	11.416	11.454	VV	3231	48068	0.41%	0.024%
167	11.468	11.454	11.520	VV	2194	46387	0.40%	0.023%
168	11.549	11.520	11.589	VV	2583	36755	0.32%	0.018%
169	11.609	11.589	11.644	VV	281	5745	0.05%	0.003%
170	11.676	11.644	11.708	VV	6531	83843	0.72%	0.041%
171	11.750	11.708	11.824	VV	931142	10870752	93.78%	5.367%
172	11.841	11.824	11.873	VV	1368	22140	0.19%	0.011%
173	11.887	11.873	11.923	VV	265	5564	0.05%	0.003%
174	11.978	11.923	12.001	PV	306	6226	0.05%	0.003%
175	12.070	12.001	12.081	VV	620	18492	0.16%	0.009%
176	12.135	12.081	12.158	VV	1500	40137	0.35%	0.020%
177	12.165	12.158	12.188	VV	1077	14942	0.13%	0.007%
178	12.204	12.188	12.221	VV	1004	15417	0.13%	0.008%
179	12.232	12.221	12.282	VV	1241	17201	0.15%	0.008%
180	12.414	12.282	12.448	VV	2600	75119	0.65%	0.037%
181	12.464	12.448	12.495	VV	847	14983	0.13%	0.007%
182	12.581	12.495	12.604	VV	1866	59159	0.51%	0.029%
183	12.638	12.604	12.654	VV	2082	47573	0.41%	0.023%
184	12.670	12.654	12.736	VV	2305	66609	0.57%	0.033%
185	12.786	12.736	12.816	VV	1996	46259	0.40%	0.023%
186	12.829	12.816	12.837	VV	722	8465	0.07%	0.004%
187	12.884	12.837	12.897	VV	3288	60781	0.52%	0.030%
188	12.916	12.897	12.963	VV	5030	73189	0.63%	0.036%
189	13.000	12.963	13.024	VV	4575	60881	0.53%	0.030%
190	13.066	13.024	13.168	VV	918989	10967766	94.62%	5.415%
191	13.178	13.168	13.248	VV	746	12865	0.11%	0.006%
192	13.327	13.248	13.368	PV	854	21280	0.18%	0.011%
193	13.417	13.368	13.437	VV	1507	27084	0.23%	0.013%
194	13.466	13.437	13.478	VV	6563	87831	0.76%	0.043%

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195	13.512	13.478	13.598	VV	701591	8300383	71.61%	4.098%
196	13.619	13.598	13.638	VV	1086	19620	0.17%	0.010%
197	13.680	13.638	13.778	VV	846131	10243321	88.37%	5.058%
198	13.793	13.778	13.852	VV	985	24170	0.21%	0.012%
199	13.877	13.852	13.917	VV	837	20923	0.18%	0.010%
200	13.942	13.917	13.993	VV	941	27722	0.24%	0.014%
201	14.019	13.993	14.035	VV	1051	14665	0.13%	0.007%
202	14.054	14.035	14.083	VV	1357	20000	0.17%	0.010%
203	14.106	14.083	14.153	VV	1994	35587	0.31%	0.018%
204	14.211	14.153	14.231	VV	3777	54924	0.47%	0.027%
205	14.267	14.231	14.384	VV	766380	9790967	84.47%	4.834%
206	14.394	14.384	14.408	VV	315	2356	0.02%	0.001%
207	14.421	14.408	14.438	VV	189	1619	0.01%	0.001%
208	14.462	14.438	14.471	VV	541	6827	0.06%	0.003%
209	14.485	14.471	14.551	VV	560	13221	0.11%	0.007%
210	14.558	14.551	14.578	VV	210	2143	0.02%	0.001%
211	14.596	14.578	14.631	PV	382	4896	0.04%	0.002%
212	14.654	14.631	14.664	VV	317	3960	0.03%	0.002%
213	14.699	14.664	14.760	VV	23604	303457	2.62%	0.150%
214	14.777	14.760	14.803	VV	424	8335	0.07%	0.004%
215	14.827	14.803	14.867	VV	1068	14859	0.13%	0.007%
216	14.891	14.867	14.937	VV	457	11286	0.10%	0.006%
217	14.970	14.937	15.003	VV	460	12211	0.11%	0.006%
218	15.029	15.003	15.050	VV	267	4857	0.04%	0.002%
219	15.085	15.050	15.098	VV	351	6042	0.05%	0.003%
220	15.148	15.098	15.201	VV	1642	39494	0.34%	0.019%
221	15.225	15.201	15.262	VV	553	9059	0.08%	0.004%
222	15.324	15.262	15.338	PV	2528	35492	0.31%	0.018%
223	15.374	15.338	15.506	VV	719756	9001356	77.66%	4.444%
224	15.532	15.506	15.551	VV	658	9949	0.09%	0.005%
225	15.562	15.551	15.603	VV	227	4317	0.04%	0.002%
226	15.611	15.603	15.631	VV	142	1151	0.01%	0.001%
227	15.673	15.631	15.714	VV	169	4286	0.04%	0.002%
228	15.778	15.714	15.828	PV	780	23788	0.21%	0.012%
229	15.849	15.828	15.866	VV	572	9882	0.09%	0.005%
230	15.890	15.866	15.931	VV	1912	32180	0.28%	0.016%
231	15.946	15.931	15.956	VV	292	3527	0.03%	0.002%
232	16.033	15.956	16.058	VV	251	11118	0.10%	0.005%
233	16.071	16.058	16.094	VV	250	3156	0.03%	0.002%
234	16.156	16.094	16.180	VV	226	5463	0.05%	0.003%
235	16.212	16.180	16.228	VV	265	5278	0.05%	0.003%
236	16.254	16.228	16.264	VV	379	5891	0.05%	0.003%
237	16.283	16.264	16.304	VV	248	4032	0.03%	0.002%
238	16.396	16.304	16.474	PV	655275	8365909	72.17%	4.131%
239	16.484	16.474	16.494	VV	202	1921	0.02%	0.001%
240	16.521	16.494	16.542	VV	264	4111	0.04%	0.002%
241	16.572	16.542	16.611	VV	335	7604	0.07%	0.004%
242	16.643	16.611	16.650	VV	76	1655	0.01%	0.001%
243	16.686	16.650	16.701	PV	143	1704	0.01%	0.001%
244	16.842	16.701	16.850	PV	407	9181	0.08%	0.005%
245	16.878	16.850	16.931	VV	2347	39732	0.34%	0.020%
246	17.093	16.931	17.098	VV	103	9134	0.08%	0.005%

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247	17.229	17.098	17.254	PV	738	8755	0.08%	0.004%
248	17.349	17.254	17.406	VV	614776	8096851	69.85%	3.998%
249	17.430	17.406	17.471	VV	530	12887	0.11%	0.006%
250	17.501	17.471	17.512	VV	220	3885	0.03%	0.002%
251	17.618	17.512	17.628	PV	336	5091	0.04%	0.003%
252	17.797	17.628	17.831	VV	3472	72373	0.62%	0.036%
253	17.885	17.831	17.901	PV	561	7087	0.06%	0.003%
254	18.126	17.901	18.153	VV	7204	140005	1.21%	0.069%
255	18.238	18.153	18.291	VV	604940	8347816	72.02%	4.122%
256	18.320	18.291	18.350	VV	1397	35281	0.30%	0.017%
257	18.399	18.350	18.407	VV	474	17732	0.15%	0.009%
258	18.505	18.407	18.520	VV	411	15878	0.14%	0.008%
259	18.572	18.520	18.590	PV	1069	19147	0.17%	0.009%
260	18.657	18.590	18.688	VV	6454	108581	0.94%	0.054%
261	18.762	18.688	18.780	VV	487	10286	0.09%	0.005%
262	18.925	18.780	18.940	VV	554	8748	0.08%	0.004%
263	19.073	18.940	19.127	VV	600562	8538599	73.66%	4.216%
264	19.200	19.127	19.219	VV	741	38401	0.33%	0.019%
265	19.467	19.219	19.504	VV	11263	314449	2.71%	0.155%
266	19.719	19.504	19.735	VV	5173	538662	4.65%	0.266%
267	19.859	19.735	19.904	VV	624264	9388286	81.00%	4.635%
268	19.915	19.904	19.921	VV	7415	73721	0.64%	0.036%
269	19.962	19.921	19.979	VV	7941	263915	2.28%	0.130%
270	20.099	19.979	20.110	VV	10136	693935	5.99%	0.343%
271	20.146	20.110	20.160	VV	11987	333625	2.88%	0.165%
272	20.229	20.160	20.257	VV	18457	785710	6.78%	0.388%
273	20.414	20.257	20.438	VV	21497	1635819	14.11%	0.808%
274	20.501	20.438	20.524	VV	21286	977458	8.43%	0.483%
275	20.601	20.524	20.638	VV	648481	10419089	89.89%	5.144%
276	20.714	20.638	20.724	VV	25427	1271729	10.97%	0.628%
277	20.763	20.724	20.776	VV	25910	785519	6.78%	0.388%
278	20.822	20.776	20.869	VV	26988	1464653	12.64%	0.723%
279	20.878	20.869	20.931	VV	24991	868895	7.50%	0.429%
280	20.962	20.931	21.005	VV	24948	976241	8.42%	0.482%
281	21.071	21.005	21.099	VV	20879	1130509	9.75%	0.558%
282	21.158	21.099	21.192	VV	25713	1188687	10.26%	0.587%
283	21.292	21.192	21.321	VV	20003	1501831	12.96%	0.742%
284	21.378	21.321	21.541	VV	535914	11591166	100.00%	5.723%
285	21.658	21.541	21.713	VV	18604	1721210	14.85%	0.850%
286	21.731	21.713	21.764	VV	16752	481255	4.15%	0.238%
287	21.822	21.764	21.874	VV	17315	1005873	8.68%	0.497%
288	21.893	21.874	21.921	VV	12134	328254	2.83%	0.162%
289	21.929	21.921	21.978	VV	11162	340664	2.94%	0.168%
290	21.985	21.978	22.009	VV	9251	162444	1.40%	0.080%
291	22.017	22.009	22.117	VV	8313	418059	3.61%	0.206%
292	22.151	22.117	22.274	VV	4828	293454	2.53%	0.145%
293	22.361	22.274	22.478	PV	335431	8734402	75.35%	4.313%
Sum of corrected areas:					202533729			

Aliphatic EPH 092425.M Tue Sep 30 06:35:08 2025

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.:	Q3179	
Lab Sample ID:	Q3179-02		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016477.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	222		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	422		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	656		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	948		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.6		40 - 140	101%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	45.7		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.4		40 - 140	99%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3179-02	Acq On:	29 Sep 2025 20:03
Client Sample ID:	EME-TS14-01MS	Operator:	YP\AJ
Data file:	FF016477.D	Misc:	
Instrument:	FID_F	ALS Vial:	88
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	15944293	111.248	200	ug/ml
Aromatic C12-C16	6.398	9.101	30698570	211.443	300	ug/ml
Aromatic C16-C21	9.102	13.420	47340767	328.361	500	ug/ml
Aromatic C21-C36	13.421	18.876	62055378	474.306	800	ug/ml
Aromatic EPH	4.521	18.876	156039008	1130		ug/ml
ortho-Terphenyl (SURR)	11.972	11.972	7536987	49.44		ug/ml
2-Bromonaphthalene (SURR)	8.028	8.028	6335476	50.58		ug/ml
2-Fluorobiphenyl (SURR)	8.903	8.903	3854619	45.7		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016477.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 20:03
 Operator : YP\AJ
 Sample : Q3179-02MS
 Misc :
 ALS Vial : 88 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 EME-TS14-01MS

Integration File: autoint1.e
 Quant Time: Sep 30 01:06:13 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	6335476	50.576 ug/ml
Spiked Amount 50.000		Recovery =	101.15%
6) S 2-Fluorobiphenyl (SURR)	8.903	3854619	45.704 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	91.41%
11) S ortho-Terphenyl (SURR)	11.972	7536987	49.440 ug/ml
Spiked Amount 50.000		Recovery =	98.88%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.622	6715880	47.643 ug/ml
2) T Naphthalene (C11.7)	6.298	7633096	52.396 ug/ml
3) T 2-Methylnaphthalene (...)	7.399	7318749	49.713 ug/ml
5) T Acenaphthylene (C15.06)	8.706	8161379	56.317 ug/ml
7) T Acenaphthene (C15.5)	9.007	8269983	57.663 ug/ml
8) T Flouorene (C16.55)	9.796	8371917	57.952 ug/ml
9) T Phenanthrene (C19.36)	11.204	8265463	56.668 ug/ml
10) T Anthracene (C19.43)	11.280	8159192	57.029 ug/ml
12) T Fluoranthene (C21.85)	13.029	8043584	55.075 ug/ml
13) T Pyrene (C20.8)	13.328	7987278	55.737 ug/ml
14) T Benzo[a]anthracene (C...	15.212	7505958	55.142 ug/ml
15) T Chrysene (C27.41)	15.258	8158062	57.190 ug/ml
16) T benzo[b]fluoranthene ...	16.774	7165472	54.532 ug/ml
17) T Bnezo[k]fluoranthene ...	16.811	7070755	56.175 ug/ml
18) T Benzo[a]pyrene (C31.34)	17.157	6862551	53.744 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.534	7406464	64.947 ug/ml
20) T Dibenz[a,h]anthracene...	18.573	6766990	51.834 ug/ml
21) T Benzo[g,h,i]perylene ...	18.793	6667087	54.143 ug/ml

(f)=RT Delta > 1/2 Window

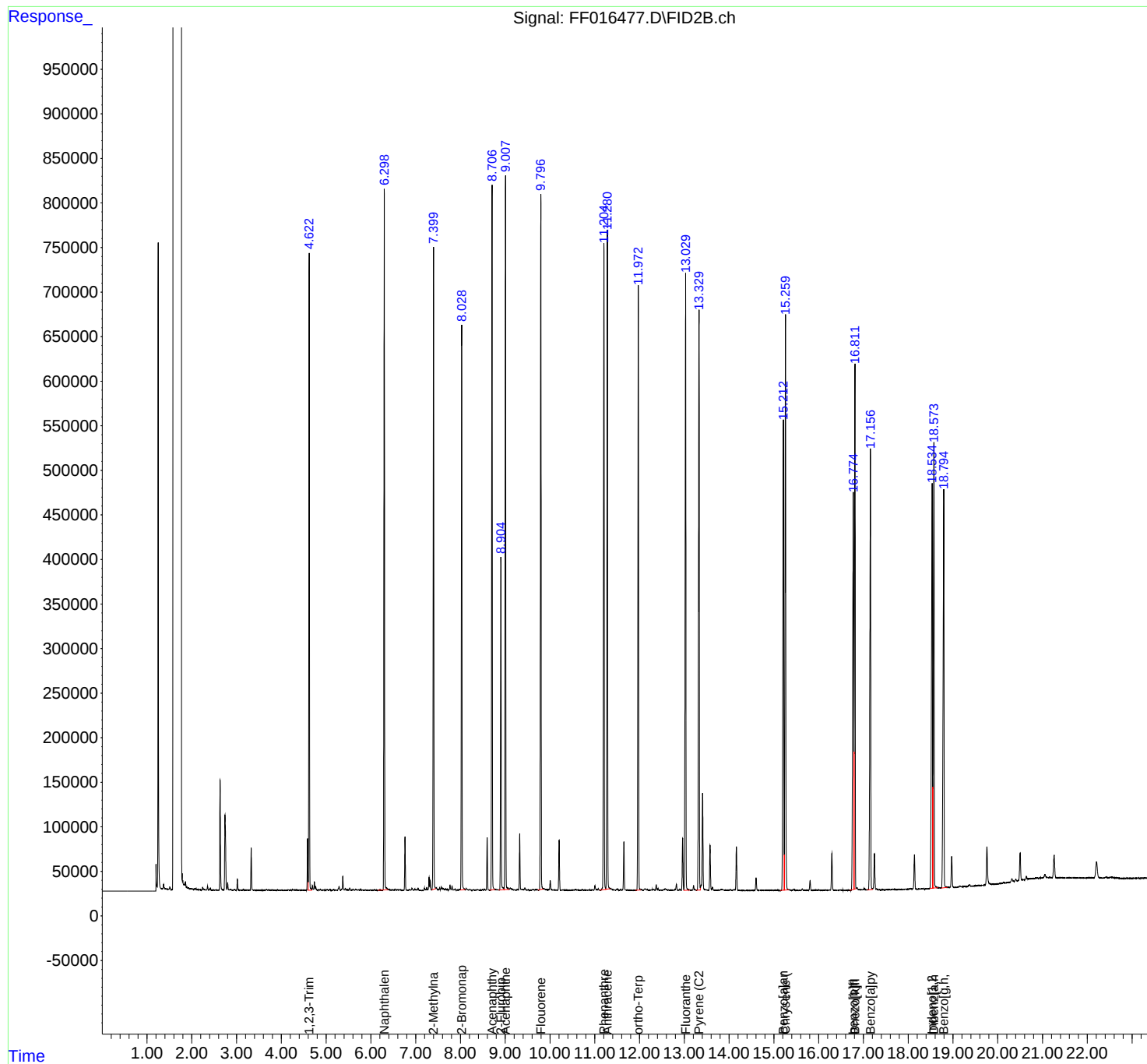
(m)=manual int.

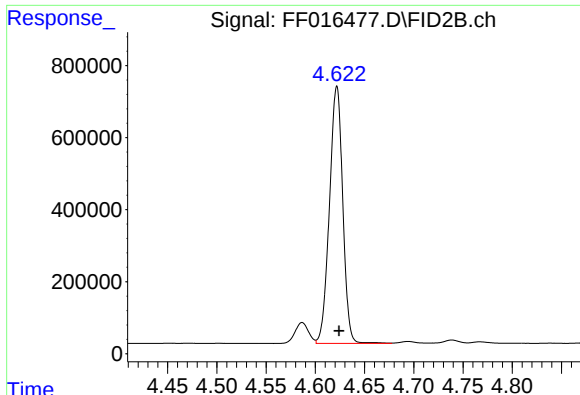
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016477.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:03
Operator : YP\AJ
Sample : Q3179-02MS
Misc :
ALS Vial : 88 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS

Integration File: autoint1.e
Quant Time: Sep 30 01:06:13 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

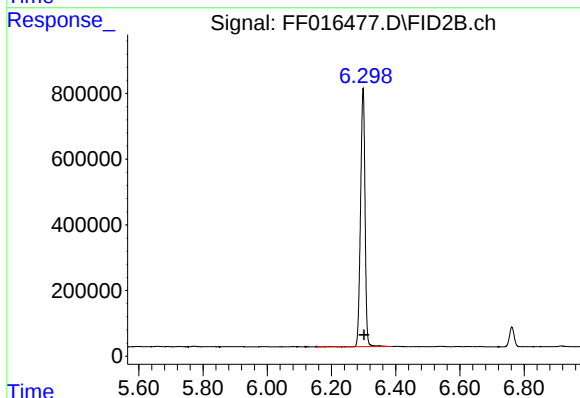




#1 1,2,3-Trimethylbenzene (C10.1)

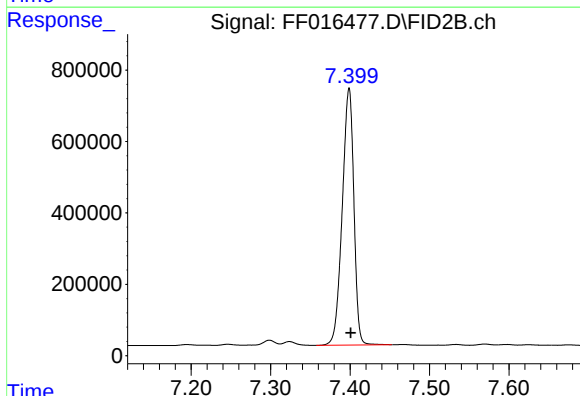
R.T.: 4.622 min
Delta R.T.: -0.002 min
Response: 6715880
Conc: 47.64 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



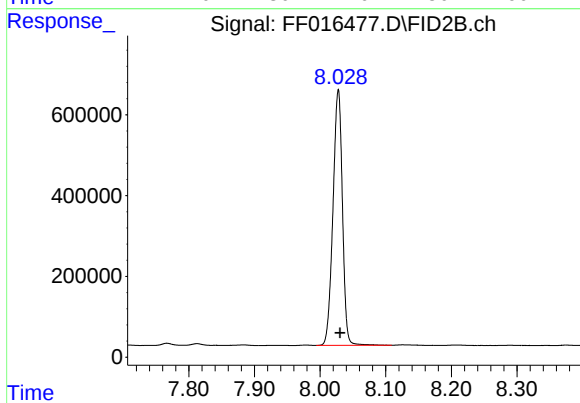
#2 Naphthalene (C11.7)

R.T.: 6.298 min
Delta R.T.: -0.003 min
Response: 7633096
Conc: 52.40 ug/ml



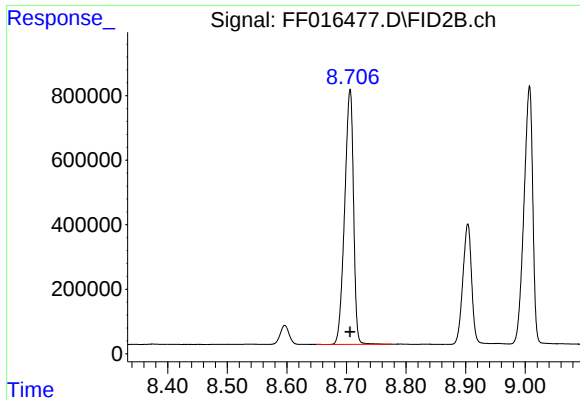
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.399 min
Delta R.T.: -0.003 min
Response: 7318749
Conc: 49.71 ug/ml



#4 2-Bromonaphthalene (SURR)

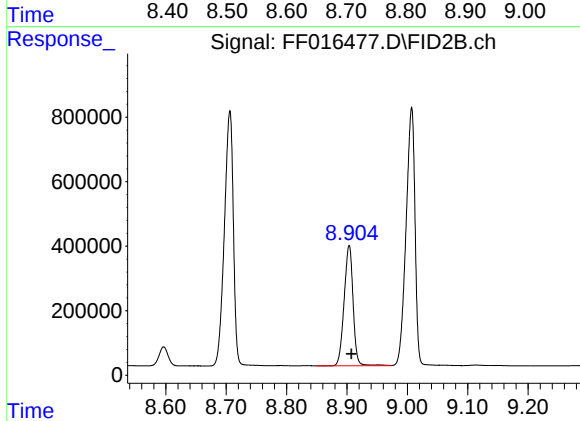
R.T.: 8.028 min
Delta R.T.: -0.003 min
Response: 6335476
Conc: 50.58 ug/ml



#5 Acenaphthylene (C15.06)

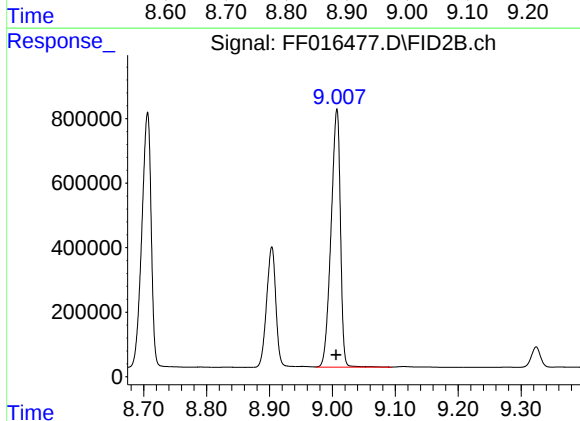
R.T.: 8.706 min
Delta R.T.: 0.000 min
Response: 8161379
Conc: 56.32 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



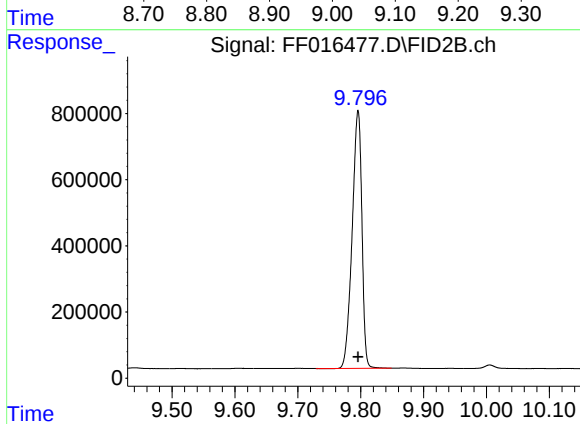
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.004 min
Response: 3854619
Conc: 45.70 ug/ml



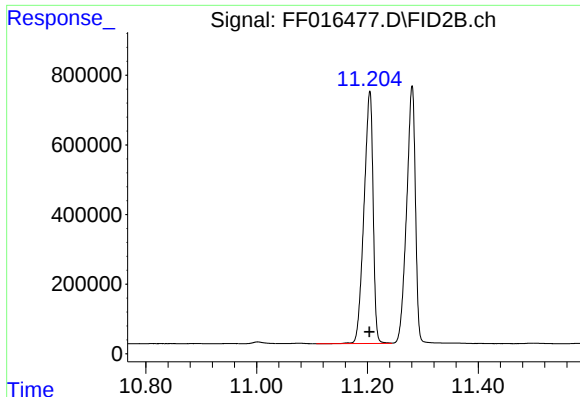
#7 Acenaphthene (C15.5)

R.T.: 9.007 min
Delta R.T.: 0.000 min
Response: 8269983
Conc: 57.66 ug/ml



#8 Flouorene (C16.55)

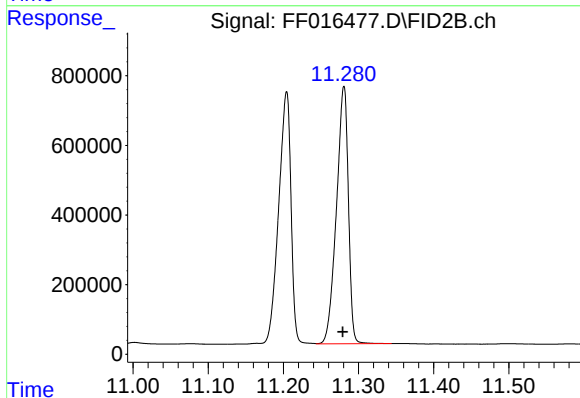
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 8371917
Conc: 57.95 ug/ml



#9 Phenanthrene (C19.36)

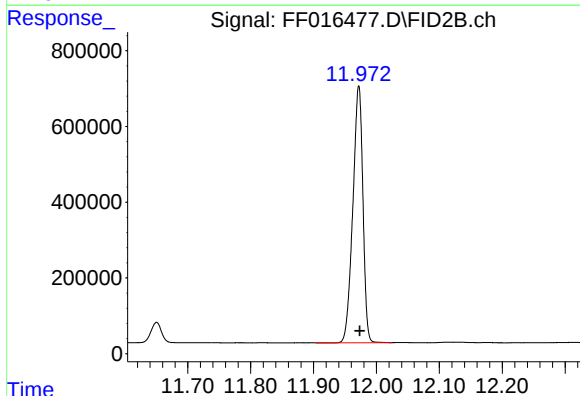
R.T.: 11.204 min
Delta R.T.: 0.000 min
Response: 8265463
Conc: 56.67 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



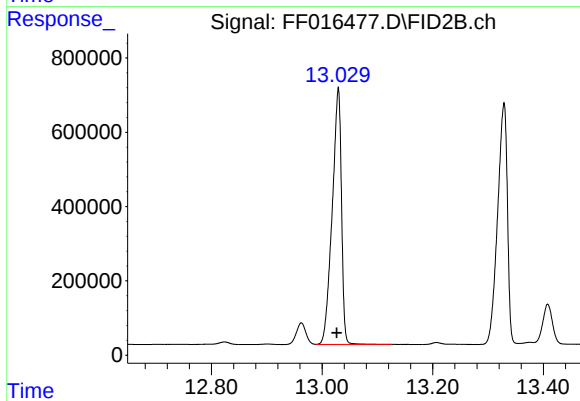
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 8159192
Conc: 57.03 ug/ml



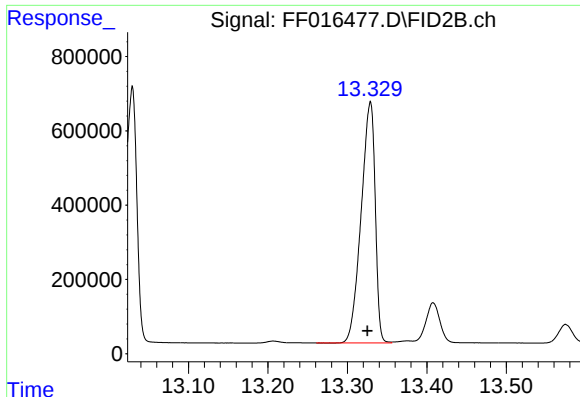
#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min
Delta R.T.: -0.002 min
Response: 7536987
Conc: 49.44 ug/ml



#12 Fluoranthene (C21.85)

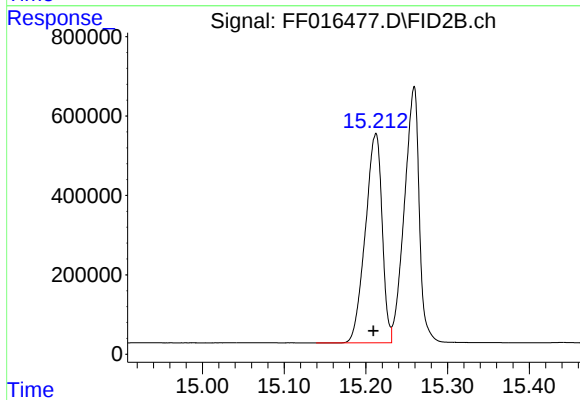
R.T.: 13.029 min
Delta R.T.: 0.002 min
Response: 8043584
Conc: 55.07 ug/ml



#13 Pyrene (C20.8)

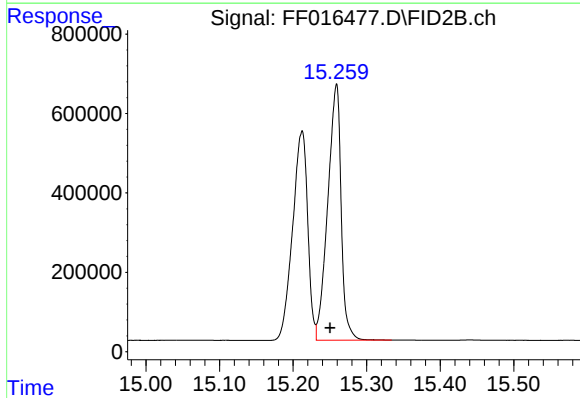
R.T.: 13.328 min
Delta R.T.: 0.003 min
Response: 7987278
Conc: 55.74 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



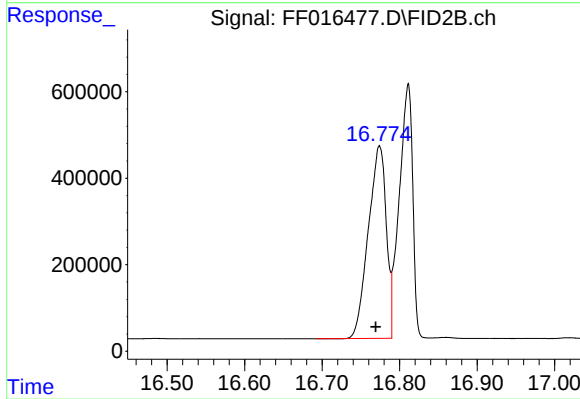
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 7505958
Conc: 55.14 ug/ml



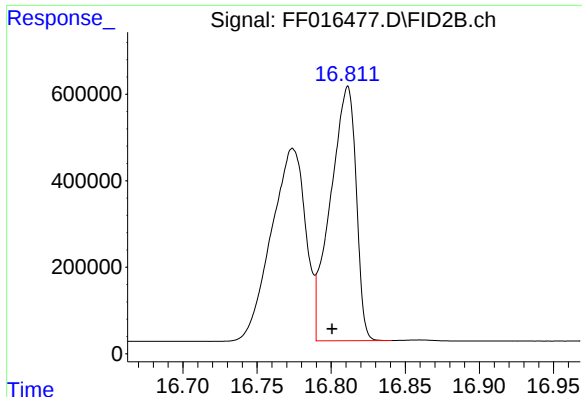
#15 Chrysene (C27.41)

R.T.: 15.258 min
Delta R.T.: 0.008 min
Response: 8158062
Conc: 57.19 ug/ml



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

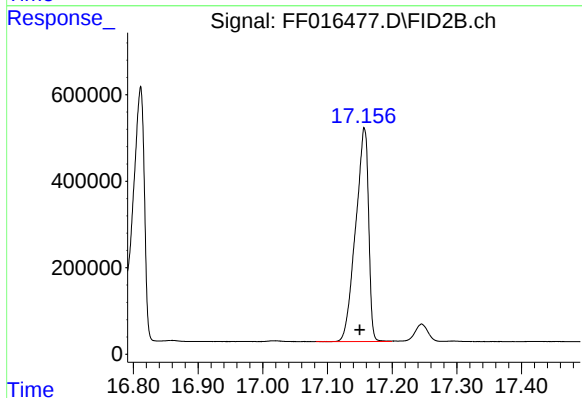
R.T.: 16.774 min
Delta R.T.: 0.005 min
Response: 7165472
Conc: 54.53 ug/ml



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

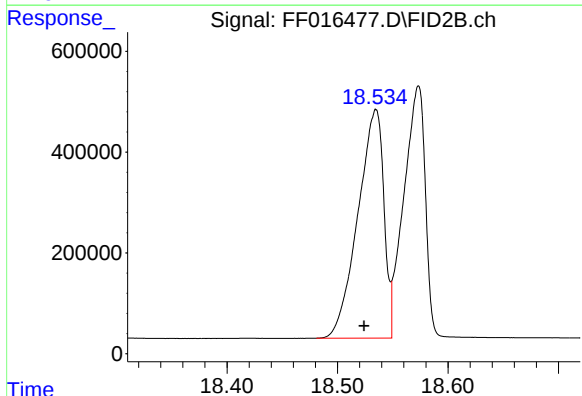
R.T.: 16.811 min
Delta R.T.: 0.010 min
Response: 7070755
Conc: 56.18 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS



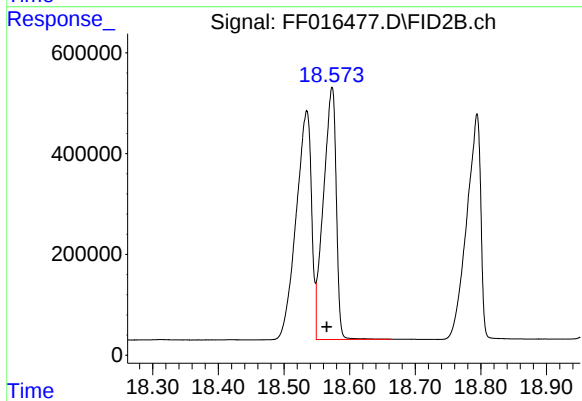
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min
Delta R.T.: 0.007 min
Response: 6862551
Conc: 53.74 ug/ml



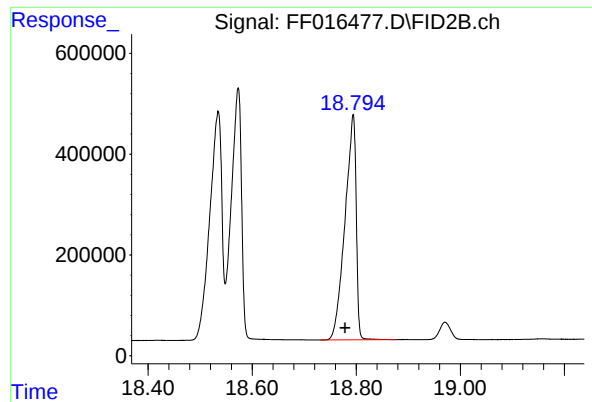
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.534 min
Delta R.T.: 0.010 min
Response: 7406464
Conc: 64.95 ug/ml



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

R.T.: 18.573 min
Delta R.T.: 0.008 min
Response: 6766990
Conc: 51.83 ug/ml



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

R.T.: 18.793 min
Delta R.T.: 0.015 min
Response: 6667087
Conc: 54.14 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MS

1
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Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016477.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:03
Sample : Q3179-02MS
Misc :
ALS Vial : 88 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	4.450	4.434	4.461	PV	375	3543	0.04%	0.002%
2	4.470	4.461	4.485	VV	404	4280	0.05%	0.003%
3	4.501	4.485	4.522	VV	399	5359	0.06%	0.003%
4	4.526	4.522	4.547	VV	199	1593	0.02%	0.001%
5	4.587	4.557	4.600	VV	58192	551272	6.52%	0.324%
6	4.622	4.600	4.654	VV	716174	6702812	79.24%	3.942%
7	4.658	4.654	4.677	VV	2476	25438	0.30%	0.015%
8	4.694	4.677	4.716	VV	5643	65064	0.77%	0.038%
9	4.739	4.716	4.755	VV	9690	106263	1.26%	0.062%
10	4.767	4.755	4.797	VV	4599	57099	0.68%	0.034%
11	4.805	4.797	4.824	VV	654	7637	0.09%	0.004%
12	4.839	4.824	4.855	VV	939	11625	0.14%	0.007%
13	4.871	4.855	4.890	VV	1344	15794	0.19%	0.009%
14	4.907	4.890	4.927	VV	460	7324	0.09%	0.004%
15	4.948	4.927	4.959	VV	559	8431	0.10%	0.005%
16	4.973	4.959	4.991	VV	537	8207	0.10%	0.005%
17	5.005	4.991	5.011	VV	687	6617	0.08%	0.004%
18	5.026	5.011	5.060	VV	1425	21011	0.25%	0.012%
19	5.082	5.060	5.135	VV	1455	21424	0.25%	0.013%
20	5.163	5.135	5.192	VV	1414	22483	0.27%	0.013%
21	5.204	5.192	5.218	VV	586	7424	0.09%	0.004%
22	5.229	5.218	5.244	VV	531	6180	0.07%	0.004%
23	5.290	5.244	5.327	VV	4523	80290	0.95%	0.047%
24	5.351	5.327	5.355	VV	1767	18432	0.22%	0.011%
25	5.373	5.355	5.410	VV	16088	170817	2.02%	0.100%

rteres								
26	5.427	5.410	5.455	VV	2451	33163	0.39%	0.020%
27	5.476	5.455	5.486	VV	813	14224	0.17%	0.008%
28	5.493	5.486	5.506	VV	712	7865	0.09%	0.005%
29	5.528	5.506	5.576	VV	2851	44910	0.53%	0.026%
30	5.598	5.576	5.641	VV	1175	26485	0.31%	0.016%
31	5.658	5.641	5.677	VV	1731	23591	0.28%	0.014%
32	5.689	5.677	5.708	VV	979	12717	0.15%	0.007%
33	5.728	5.708	5.752	VV	1104	16063	0.19%	0.009%
34	5.774	5.752	5.795	VV	1866	23857	0.28%	0.014%
35	5.808	5.795	5.816	VV	483	5533	0.07%	0.003%
36	5.829	5.816	5.847	VV	594	8979	0.11%	0.005%
37	5.876	5.847	5.888	VV	697	12532	0.15%	0.007%
38	5.893	5.888	5.910	VV	606	7096	0.08%	0.004%
39	5.917	5.910	5.944	VV	488	7696	0.09%	0.005%
40	5.947	5.944	5.967	VV	343	3737	0.04%	0.002%
41	5.996	5.967	6.029	VV	598	13840	0.16%	0.008%
42	6.040	6.029	6.064	VV	367	6192	0.07%	0.004%
43	6.080	6.064	6.095	VV	865	10510	0.12%	0.006%
44	6.100	6.095	6.110	VV	439	2984	0.04%	0.002%
45	6.120	6.110	6.125	VV	388	2796	0.03%	0.002%
46	6.132	6.125	6.146	VV	359	3966	0.05%	0.002%
47	6.151	6.146	6.169	VV	361	3911	0.05%	0.002%
48	6.195	6.169	6.229	VV	862	17805	0.21%	0.010%
49	6.241	6.229	6.257	VV	381	4946	0.06%	0.003%
50	6.299	6.257	6.388	VV	788585	7705658	91.09%	4.532%
51	6.406	6.388	6.436	VV	1778	34777	0.41%	0.020%
52	6.439	6.436	6.456	VV	790	8425	0.10%	0.005%
53	6.472	6.456	6.505	VV	887	19956	0.24%	0.012%
54	6.541	6.505	6.574	VV	1750	37154	0.44%	0.022%
55	6.593	6.574	6.611	VV	1221	17778	0.21%	0.010%
56	6.625	6.611	6.641	VV	1217	14709	0.17%	0.009%
57	6.661	6.641	6.683	VV	980	17327	0.20%	0.010%
58	6.694	6.683	6.706	VV	303	3934	0.05%	0.002%
59	6.721	6.706	6.734	VV	419	5703	0.07%	0.003%
60	6.762	6.734	6.795	VV	60332	618931	7.32%	0.364%
61	6.819	6.795	6.836	VV	781	14344	0.17%	0.008%
62	6.851	6.836	6.871	VV	935	13971	0.17%	0.008%
63	6.883	6.871	6.894	VV	758	8840	0.10%	0.005%
64	6.916	6.894	6.962	VV	2876	52408	0.62%	0.031%
65	6.981	6.962	7.005	VV	1817	28439	0.34%	0.017%
66	7.018	7.005	7.035	VV	1393	17785	0.21%	0.010%
67	7.054	7.035	7.079	VV	2868	35553	0.42%	0.021%
68	7.081	7.079	7.120	VV	440	4999	0.06%	0.003%
69	7.141	7.120	7.154	PV	243	2362	0.03%	0.001%

				rteres				
70	7.162	7.154	7.174	VV	148	1317	0.02%	0.001%
71	7.195	7.174	7.211	VV	2830	32334	0.38%	0.019%
72	7.217	7.211	7.232	VV	1074	11705	0.14%	0.007%
73	7.246	7.232	7.264	VV	3690	41239	0.49%	0.024%
74	7.299	7.264	7.312	VV	15158	170937	2.02%	0.101%
75	7.324	7.312	7.357	VV	11224	126247	1.49%	0.074%
76	7.399	7.357	7.457	VV	722918	7412182	87.62%	4.359%
77	7.467	7.457	7.497	VV	2876	45001	0.53%	0.026%
78	7.511	7.497	7.518	VV	1255	14305	0.17%	0.008%
79	7.534	7.518	7.550	VV	3158	36861	0.44%	0.022%
80	7.570	7.550	7.584	VV	4141	51225	0.61%	0.030%
81	7.598	7.584	7.611	VV	3028	37799	0.45%	0.022%
82	7.624	7.611	7.641	VV	2460	31191	0.37%	0.018%
83	7.650	7.641	7.661	VV	1240	13281	0.16%	0.008%
84	7.675	7.661	7.689	VV	2062	23727	0.28%	0.014%
85	7.708	7.689	7.726	VV	1627	24499	0.29%	0.014%
86	7.767	7.726	7.792	VV	6132	86066	1.02%	0.051%
87	7.813	7.792	7.852	VV	5126	75392	0.89%	0.044%
88	7.883	7.852	7.911	VV	2058	37679	0.45%	0.022%
89	7.940	7.911	7.959	VV	830	19040	0.23%	0.011%
90	7.979	7.959	7.994	VV	1627	21668	0.26%	0.013%
91	8.028	7.994	8.110	VV	633193	6403935	75.70%	3.766%
92	8.126	8.110	8.164	VV	2267	50847	0.60%	0.030%
93	8.172	8.164	8.187	VV	978	12257	0.14%	0.007%
94	8.209	8.187	8.239	VV	1698	34461	0.41%	0.020%
95	8.246	8.239	8.256	VV	617	5774	0.07%	0.003%
96	8.259	8.256	8.264	VV	596	2391	0.03%	0.001%
97	8.289	8.264	8.334	VV	1095	28506	0.34%	0.017%
98	8.344	8.334	8.355	VV	638	6692	0.08%	0.004%
99	8.375	8.355	8.407	VV	1524	26660	0.32%	0.016%
100	8.413	8.407	8.431	VV	679	7775	0.09%	0.005%
101	8.436	8.431	8.446	VV	498	4378	0.05%	0.003%
102	8.452	8.446	8.466	VV	573	5713	0.07%	0.003%
103	8.500	8.466	8.518	VV	910	22341	0.26%	0.013%
104	8.537	8.518	8.564	VV	1246	25091	0.30%	0.015%
105	8.597	8.564	8.652	VV	59685	638464	7.55%	0.375%
106	8.655	8.652	8.668	VV	548	3889	0.05%	0.002%
107	8.706	8.668	8.775	VV	790035	8219225	97.16%	4.834%
108	8.792	8.775	8.816	VV	1600	29262	0.35%	0.017%
109	8.832	8.816	8.867	VV	1265	26096	0.31%	0.015%
110	8.904	8.867	8.944	VV	374736	3864122	45.68%	2.273%
111	8.953	8.944	8.974	VV	3475	53022	0.63%	0.031%
112	9.007	8.974	9.054	VV	803043	8313232	98.28%	4.889%

rteres								
113	9.062	9.054	9.093	VV	2588	47282	0.56%	0.028%
114	9.113	9.093	9.147	VV	3124	69419	0.82%	0.041%
115	9.150	9.147	9.181	VV	1631	23389	0.28%	0.014%
116	9.204	9.181	9.239	VV	863	25346	0.30%	0.015%
117	9.254	9.239	9.262	VV	884	10377	0.12%	0.006%
118	9.279	9.262	9.295	VV	1342	19548	0.23%	0.011%
119	9.324	9.295	9.350	VV	64173	660073	7.80%	0.388%
120	9.361	9.350	9.397	VV	1678	37461	0.44%	0.022%
121	9.402	9.397	9.414	VV	1004	9710	0.11%	0.006%
122	9.440	9.414	9.493	VV	3019	61388	0.73%	0.036%
123	9.514	9.493	9.541	VV	908	16334	0.19%	0.010%
124	9.563	9.541	9.584	VV	608	10685	0.13%	0.006%
125	9.603	9.584	9.633	VV	1356	28282	0.33%	0.017%
126	9.644	9.633	9.660	VV	1037	14816	0.18%	0.009%
127	9.671	9.660	9.687	VV	1020	15196	0.18%	0.009%
128	9.702	9.687	9.747	VV	1347	32844	0.39%	0.019%
129	9.796	9.747	9.852	VV	781314	8459130	100.00%	4.975%
130	9.868	9.852	9.902	VV	2409	52338	0.62%	0.031%
131	9.908	9.902	9.923	VV	1137	12817	0.15%	0.008%
132	9.944	9.923	9.969	VV	1381	29930	0.35%	0.018%
133	10.005	9.969	10.067	VV	11530	170252	2.01%	0.100%
134	10.087	10.067	10.101	VV	817	14434	0.17%	0.008%
135	10.127	10.101	10.159	VV	896	23228	0.27%	0.014%
136	10.204	10.159	10.251	VV	56712	651354	7.70%	0.383%
137	10.256	10.251	10.259	VV	455	2001	0.02%	0.001%
138	10.281	10.259	10.286	VV	678	9348	0.11%	0.005%
139	10.300	10.286	10.338	VV	935	19807	0.23%	0.012%
140	10.374	10.338	10.402	VV	795	19231	0.23%	0.011%
141	10.407	10.402	10.421	VV	450	4261	0.05%	0.003%
142	10.435	10.421	10.461	VV	502	8865	0.10%	0.005%
143	10.481	10.461	10.496	VV	823	11987	0.14%	0.007%
144	10.515	10.496	10.520	VV	699	8860	0.10%	0.005%
145	10.530	10.520	10.549	VV	813	12014	0.14%	0.007%
146	10.567	10.549	10.591	VV	1417	26350	0.31%	0.015%
147	10.598	10.591	10.618	VV	1016	12755	0.15%	0.008%
148	10.634	10.618	10.662	VV	867	15985	0.19%	0.009%
149	10.676	10.662	10.700	VV	592	11003	0.13%	0.006%
150	10.723	10.700	10.746	VV	920	18218	0.22%	0.011%
151	10.761	10.746	10.775	VV	683	9093	0.11%	0.005%
152	10.789	10.775	10.796	VV	645	7082	0.08%	0.004%
153	10.812	10.796	10.820	VV	766	9256	0.11%	0.005%
154	10.827	10.820	10.840	VV	709	8054	0.10%	0.005%
155	10.845	10.840	10.848	VV	697	3195	0.04%	0.002%

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156	10.851	10.848	10.864	VV	690	5572	0.07%	0.003%	
157	10.888	10.864	10.910	VV	890	17230	0.20%	0.010%	
158	10.917	10.910	10.924	VV	577	4505	0.05%	0.003%	
159	10.926	10.924	10.931	VV	593	2109	0.02%	0.001%	
160	10.947	10.931	10.977	VV	800	18386	0.22%	0.011%	
161	11.002	10.977	11.052	VV	5690	98032	1.16%	0.058%	
162	11.076	11.052	11.127	VV	1921	43011	0.51%	0.025%	
163	11.204	11.127	11.245	VV	726387	8341426	98.61%	4.906%	
164	11.281	11.245	11.345	VV	742556	8268946	97.75%	4.863%	
165	11.355	11.345	11.392	VV	2475	54949	0.65%	0.032%	
166	11.401	11.392	11.432	VV	1201	22939	0.27%	0.013%	
167	11.437	11.432	11.444	VV	710	4877	0.06%	0.003%	
168	11.450	11.444	11.466	VV	733	9164	0.11%	0.005%	
169	11.495	11.466	11.557	VV	1929	57773	0.68%	0.034%	
170	11.580	11.557	11.605	VV	1461	26135	0.31%	0.015%	
171	11.651	11.605	11.709	VV	54880	660292	7.81%	0.388%	
172	11.722	11.709	11.764	VV	744	18251	0.22%	0.011%	
173	11.783	11.764	11.796	VV	495	7697	0.09%	0.005%	
174	11.819	11.796	11.857	VV	561	14090	0.17%	0.008%	
175	11.879	11.857	11.891	VV	484	8230	0.10%	0.005%	
176	11.900	11.891	11.919	VV	506	6088	0.07%	0.004%	
177	11.972	11.919	12.024	VV	680375	7576007	89.56%	4.456%	
178	12.039	12.024	12.085	VV	1209	29930	0.35%	0.018%	
179	12.112	12.085	12.122	VV	1954	29439	0.35%	0.017%	
180	12.132	12.122	12.166	VV	1995	35999	0.43%	0.021%	
181	12.177	12.166	12.205	VV	1104	17487	0.21%	0.010%	
182	12.222	12.205	12.236	VV	616	9183	0.11%	0.005%	
183	12.251	12.236	12.267	VV	791	12653	0.15%	0.007%	
184	12.315	12.267	12.346	VV	1512	45142	0.53%	0.027%	
185	12.373	12.346	12.396	VV	6546	90084	1.06%	0.053%	
186	12.412	12.396	12.440	VV	2437	35887	0.42%	0.021%	
187	12.456	12.440	12.467	VV	633	8303	0.10%	0.005%	
188	12.480	12.467	12.511	VV	751	13912	0.16%	0.008%	
189	12.543	12.511	12.556	VV	1383	25073	0.30%	0.015%	
190	12.570	12.556	12.637	VV	2425	60075	0.71%	0.035%	
191	12.647	12.637	12.682	VV	727	14508	0.17%	0.009%	
192	12.699	12.682	12.734	VV	630	17405	0.21%	0.010%	
193	12.747	12.734	12.766	VV	739	12097	0.14%	0.007%	
194	12.824	12.766	12.851	VV	7224	118957	1.41%	0.070%	
195	12.861	12.851	12.866	VV	463	4039	0.05%	0.002%	
196	12.869	12.866	12.880	VV	469	3549	0.04%	0.002%	
197	12.901	12.880	12.929	VV	1638	24381	0.29%	0.014%	
198	12.963	12.929	12.990	VV	58800	708231	8.37%	0.417%	
199	13.029	12.990	13.139	VV	691157	8083284	95.56%	4.754%	

200	13.142	13.139	13.179	VV	605	12110	0.14%	0.007%
201	13.207	13.179	13.281	VV	5804	98458	1.16%	0.058%
202	13.329	13.281	13.356	VV	651358	8014105	94.74%	4.713%
203	13.376	13.356	13.382	VV	6305	78767	0.93%	0.046%
204	13.408	13.382	13.489	VV	109060	1382291	16.34%	0.813%
205	13.499	13.489	13.532	VV	814	16179	0.19%	0.010%
206	13.535	13.532	13.542	VV	489	2490	0.03%	0.001%
207	13.575	13.542	13.609	VV	50834	636805	7.53%	0.375%
208	13.629	13.609	13.667	VV	3930	61208	0.72%	0.036%
209	13.671	13.667	13.675	VV	477	2208	0.03%	0.001%
210	13.695	13.675	13.729	VV	647	14909	0.18%	0.009%
211	13.774	13.729	13.800	VV	780	23116	0.27%	0.014%
212	13.813	13.800	13.861	VV	1307	39844	0.47%	0.023%
213	13.864	13.861	13.892	VV	1028	13638	0.16%	0.008%
214	13.912	13.892	13.947	VV	709	17498	0.21%	0.010%
215	13.954	13.947	13.976	VV	534	8284	0.10%	0.005%
216	13.980	13.976	13.997	VV	548	5713	0.07%	0.003%
217	14.025	13.997	14.054	VV	1128	22858	0.27%	0.013%
218	14.078	14.054	14.088	VV	446	7933	0.09%	0.005%
219	14.113	14.088	14.133	VV	1422	24308	0.29%	0.014%
220	14.163	14.133	14.214	VV	49082	625448	7.39%	0.368%
221	14.221	14.214	14.244	VV	433	5804	0.07%	0.003%
222	14.248	14.244	14.278	VV	211	2539	0.03%	0.001%
223	14.287	14.278	14.312	VV	192	2391	0.03%	0.001%
224	14.323	14.312	14.359	VV	126	1309	0.02%	0.001%
225	14.394	14.359	14.426	PV	297	6672	0.08%	0.004%
226	14.449	14.431	14.477	VV	226	3697	0.04%	0.002%
227	14.506	14.477	14.543	VV	292	6190	0.07%	0.004%
228	14.555	14.543	14.567	VV	254	2481	0.03%	0.001%
229	14.602	14.567	14.635	VV	14269	187475	2.22%	0.110%
230	14.645	14.635	14.650	VV	482	3818	0.05%	0.002%
231	14.653	14.650	14.706	VV	449	10022	0.12%	0.006%
232	14.730	14.706	14.751	VV	445	7427	0.09%	0.004%
233	14.788	14.758	14.811	VV	555	10937	0.13%	0.006%
234	14.830	14.811	14.849	VV	495	8564	0.10%	0.005%
235	14.863	14.849	14.909	VV	401	11181	0.13%	0.007%
236	14.937	14.909	14.956	VV	481	10072	0.12%	0.006%
237	14.961	14.956	14.969	VV	278	1961	0.02%	0.001%
238	14.990	14.969	15.005	VV	316	5045	0.06%	0.003%
239	15.044	15.005	15.064	VV	537	12762	0.15%	0.008%
240	15.081	15.064	15.095	VV	431	6545	0.08%	0.004%
241	15.106	15.095	15.129	VV	294	3842	0.05%	0.002%
242	15.134	15.129	15.154	VV	133	1130	0.01%	0.001%

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243	15.212	15.154	15.231	PV	528491	7515191	88.84%	4.420%
244	15.259	15.231	15.335	VV	646520	8203659	96.98%	4.825%
245	15.352	15.335	15.404	VV	954	24934	0.29%	0.015%
246	15.407	15.404	15.419	VV	401	3236	0.04%	0.002%
247	15.440	15.419	15.502	VV	1127	26529	0.31%	0.016%
248	15.516	15.502	15.554	VV	265	4945	0.06%	0.003%
249	15.571	15.554	15.594	VV	292	4075	0.05%	0.002%
250	15.633	15.594	15.666	VV	1871	28369	0.34%	0.017%
251	15.681	15.666	15.720	VV	569	10851	0.13%	0.006%
252	15.743	15.720	15.749	VV	260	3600	0.04%	0.002%
253	15.758	15.755	15.766	VV	236	1306	0.02%	0.001%
254	15.808	15.766	15.856	VV	11006	151807	1.79%	0.089%
255	15.865	15.856	15.872	VV	155	1479	0.02%	0.001%
256	15.880	15.872	15.892	VV	233	2331	0.03%	0.001%
257	15.919	15.892	15.931	VV	439	6976	0.08%	0.004%
258	15.934	15.931	15.954	VV	324	3887	0.05%	0.002%
259	15.975	15.954	15.989	VV	534	9049	0.11%	0.005%
260	16.003	15.989	16.029	VV	634	10214	0.12%	0.006%
261	16.039	16.029	16.070	VV	324	6134	0.07%	0.004%
262	16.121	16.070	16.130	VV	354	9420	0.11%	0.006%
263	16.157	16.130	16.204	VV	551	13901	0.16%	0.008%
264	16.221	16.204	16.242	VV	247	4475	0.05%	0.003%
265	16.257	16.242	16.264	VV	548	5742	0.07%	0.003%
266	16.295	16.264	16.336	VV	41702	565281	6.68%	0.332%
267	16.344	16.336	16.381	VV	376	6183	0.07%	0.004%
268	16.404	16.381	16.456	VV	269	5278	0.06%	0.003%
269	16.486	16.456	16.516	VV	792	12619	0.15%	0.007%
270	16.541	16.516	16.574	VV	356	2633	0.03%	0.002%
271	16.587	16.574	16.639	VV	116	1835	0.02%	0.001%
272	16.652	16.639	16.665	PV	191	1726	0.02%	0.001%
273	16.681	16.665	16.694	VV	211	1860	0.02%	0.001%
274	16.714	16.694	16.719	VV	155	1066	0.01%	0.001%
275	16.774	16.719	16.790	PV	446035	7172887	84.79%	4.219%
276	16.811	16.790	16.840	VV	588912	7147144	84.49%	4.203%
277	16.860	16.840	16.901	VV	3144	60809	0.72%	0.036%
278	16.907	16.901	16.949	VV	685	16409	0.19%	0.010%
279	16.955	16.949	16.966	VV	537	5241	0.06%	0.003%
280	16.969	16.966	16.997	VV	589	9706	0.11%	0.006%
281	17.019	16.997	17.057	VV	2271	39500	0.47%	0.023%
282	17.064	17.057	17.069	VV	415	2716	0.03%	0.002%
283	17.074	17.069	17.078	VV	401	2079	0.02%	0.001%
284	17.084	17.078	17.102	VV	446	5279	0.06%	0.003%
285	17.157	17.102	17.199	VV	493106	6893043	81.49%	4.054%

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286	17.246	17.199	17.277	VV	41058	588692	6.96%	0.346%	
287	17.295	17.277	17.347	VV	1445	26720	0.32%	0.016%	
288	17.356	17.347	17.379	VV	297	3997	0.05%	0.002%	
289	17.387	17.379	17.401	VV	189	1888	0.02%	0.001%	
290	17.420	17.401	17.431	VV	374	4812	0.06%	0.003%	
291	17.435	17.431	17.446	VV	244	1900	0.02%	0.001%	
292	17.454	17.446	17.476	VV	227	2751	0.03%	0.002%	
293	17.519	17.487	17.529	PV	527	6502	0.08%	0.004%	
294	17.534	17.529	17.552	VV	427	4574	0.05%	0.003%	
295	17.569	17.552	17.605	VV	412	7900	0.09%	0.005%	
296	17.656	17.605	17.679	PV	699	13900	0.16%	0.008%	
297	17.698	17.679	17.729	VV	942	14310	0.17%	0.008%	
298	17.800	17.729	17.841	VV	375	14301	0.17%	0.008%	
299	17.849	17.841	17.859	VV	259	2114	0.02%	0.001%	
300	17.906	17.859	17.911	VV	454	8183	0.10%	0.005%	
301	17.914	17.911	17.957	VV	376	6084	0.07%	0.004%	
302	18.029	17.957	18.043	VV	686	20001	0.24%	0.012%	
303	18.061	18.043	18.083	VV	910	14244	0.17%	0.008%	
304	18.138	18.083	18.199	VV	39002	539971	6.38%	0.318%	
305	18.236	18.199	18.246	VV	166	3592	0.04%	0.002%	
306	18.258	18.246	18.269	VV	176	2161	0.03%	0.001%	
307	18.311	18.269	18.374	VV	866	19398	0.23%	0.011%	
308	18.422	18.374	18.446	PV	343	6602	0.08%	0.004%	
309	18.535	18.446	18.549	PV	454371	7405211	87.54%	4.355%	
310	18.573	18.549	18.734	VV	501903	6846733	80.94%	4.027%	
311	18.794	18.734	18.851	PBA	447502	6649130	78.60%	3.911%	
Sum of corrected areas:						170032132			

Aromatic EPH 092425.M Tue Sep 30 01:32:03 2025

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.:	Q3179	
Lab Sample ID:	Q3179-03		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056057.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
	Aliphatic C9-C12	Aliphatic C9-C12	329	8.28	30.0	ug/l
	Aliphatic C12-C16	Aliphatic C12-C16	286	13.5	20.0	ug/l
	Aliphatic C16-C21	Aliphatic C16-C21	401	8.34	30.0	ug/l
	Aliphatic C21-C28	Aliphatic C21-C28	491	12.5	40.0	ug/l
	Aliphatic C28-C40	Aliphatic C28-C40	1120	23.8	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	58.5		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3179-03	Acq On:	29 Sep 2025 20:57
Client Sample ID:	EME-TS14-01MSD	Operator:	YP\AJ
Data file:	FE056057.D	Misc:	
Instrument:	FID_E	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.315	6.946	23042176	164.554	300	ug/ml
Aliphatic C12-C16	6.947	10.396	22005325	143.473	200	ug/ml
Aliphatic C16-C21	10.397	13.773	33279405	200.624	300	ug/ml
Aliphatic C21-C28	13.774	17.443	36466374	245.52	400	ug/ml
Aliphatic C28-C40	17.444	22.449	76389018	560.645	600	ug/ml
Aliphatic EPH	3.315	22.449	191182298	1310		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	8160881	58.47		ug/ml
Aliphatic C9-C28	3.315	17.443	114793280	754.171	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
 Data File : FE056057.D
 Signal(s) : FID1B.ch
 Acq On : 29 Sep 2025 20:57
 Operator : YP\AJ
 Sample : Q3179-03
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 EME-TS14-01MSD

Integration File: autoint1.e
 Quant Time: Sep 30 00:32:09 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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			
12) S 1-chlorooctadecane (S...	13.512	8160881	58.474 ug/ml
Spiked Amount 50.000		Recovery =	116.95%
Target Compounds			
1) T n-Nonane (C9)	3.416	5771844	42.133 ug/ml
2) T n-Decane (C10)	4.675	7111210	50.953 ug/ml
4) T n-Dodecane (C12)	6.849	8430957	58.741 ug/ml
6) T n-Tetradecane (C14)	8.686	9280824	62.774 ug/ml
7) T n-Hexadecane (C16)	10.301	10228409	64.367 ug/ml
8) T n-Octadecane (C18)	11.750	10667564	62.979 ug/ml
10) T n-Eicosane (C20)	13.065	10864641	65.542 ug/ml
11) T n-Heneicosane (C21)	13.679	10166796	62.568 ug/ml
13) T n-Docosane (C22)	14.267	9816245	61.432 ug/ml
14) T n-Tetracosane (C24)	15.373	9104534	59.749 ug/ml
15) T n-Hexacosane (C26)	16.397	8428572	59.094 ug/ml
16) T n-Octacosane (C28)	17.348	8119016	58.282 ug/ml
17) T n-Tricontane (C30)	18.239	8329721	56.213 ug/ml
18) T n-Dotriacontane (C32)	19.072	8549001	57.299 ug/ml
19) T n-Tetratriacontane (C34)	19.858	8872363	62.724 ug/ml
20) T n-Hexatriacontane (C36)	20.600	9121579	71.056 ug/ml
21) T n-Octatriacontane (C38)	21.376	9422243	71.738 ug/ml
22) T n-Tetracontane (C40)	22.360	8913426	74.923 ug/ml

(f)=RT Delta > 1/2 Window

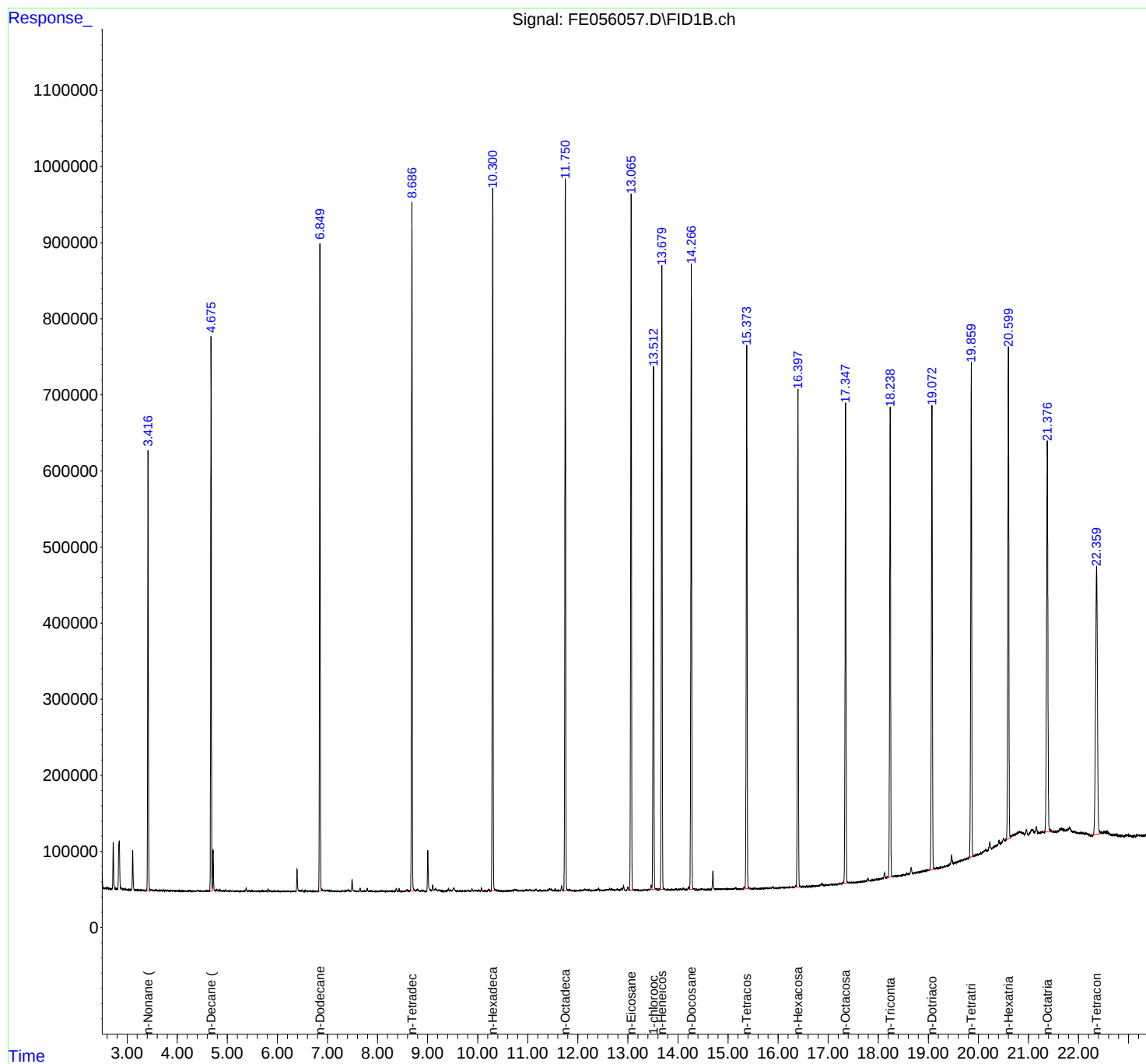
(m)=manual int.

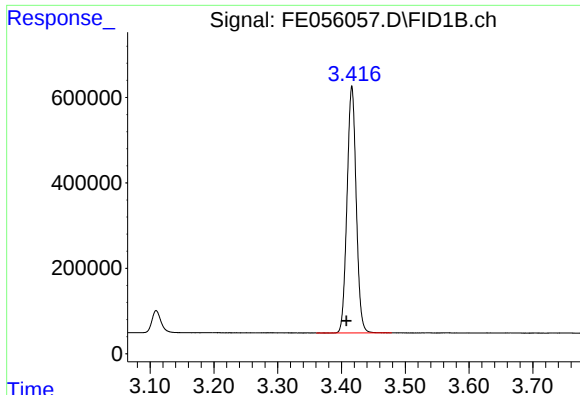
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056057.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:57
Operator : YP\AJ
Sample : Q3179-03
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 30 00:32:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

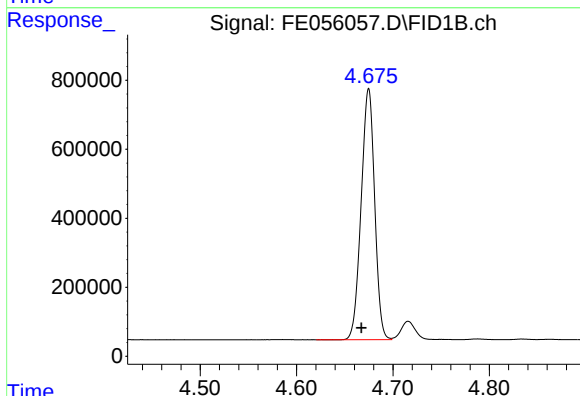




#1 n-Nonane (C9)

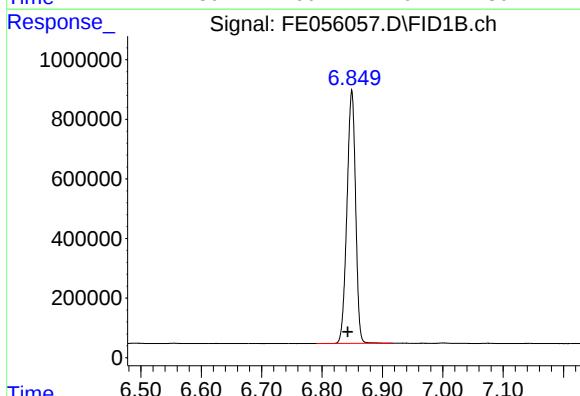
R.T.: 3.416 min
Delta R.T.: 0.008 min
Response: 5771844
Conc: 42.13 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



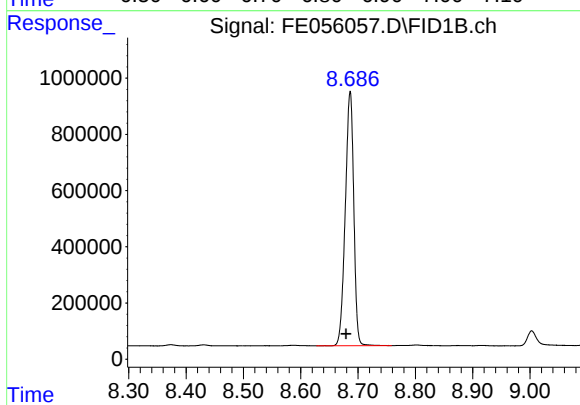
#2 n-Decane (C10)

R.T.: 4.675 min
Delta R.T.: 0.007 min
Response: 7111210
Conc: 50.95 ug/ml



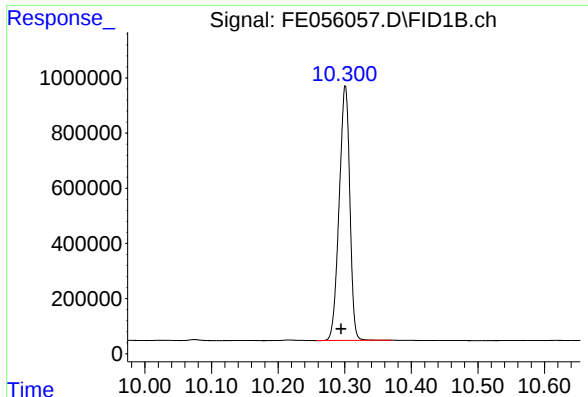
#4 n-Dodecane (C12)

R.T.: 6.849 min
Delta R.T.: 0.006 min
Response: 8430957
Conc: 58.74 ug/ml



#6 n-Tetradecane (C14)

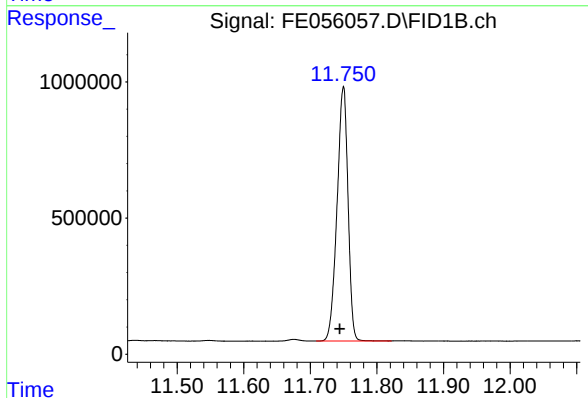
R.T.: 8.686 min
Delta R.T.: 0.007 min
Response: 9280824
Conc: 62.77 ug/ml



#7 n-Hexadecane (C16)

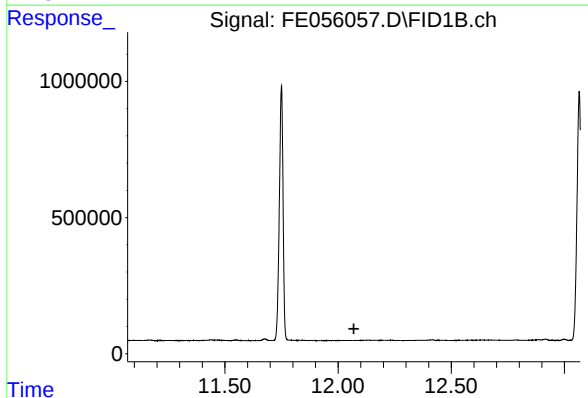
R.T.: 10.301 min
Delta R.T.: 0.006 min
Response: 10228409
Conc: 64.37 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



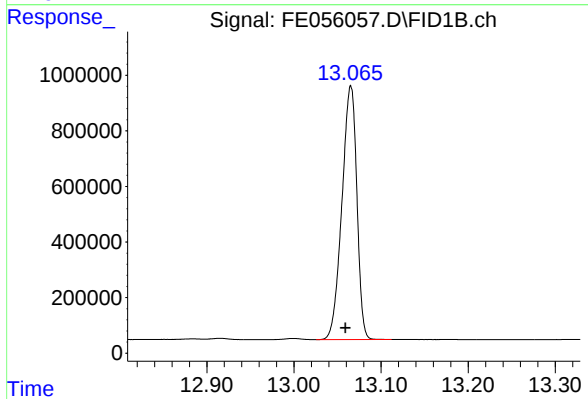
#8 n-Octadecane (C18)

R.T.: 11.750 min
Delta R.T.: 0.005 min
Response: 10667564
Conc: 62.98 ug/ml



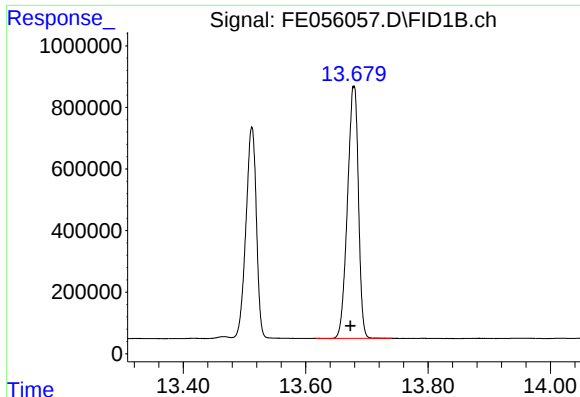
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 12.070 min
Response: 0
Conc: N.D.



#10 n-Eicosane (C20)

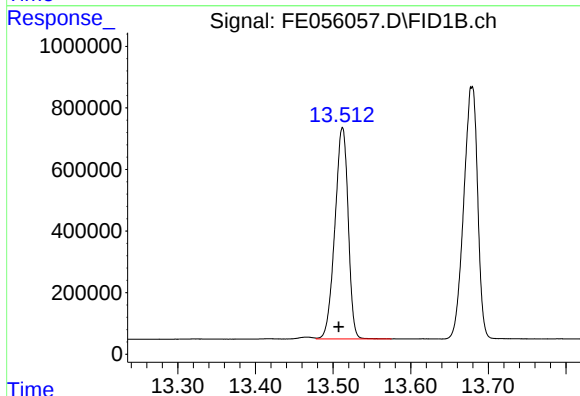
R.T.: 13.065 min
Delta R.T.: 0.006 min
Response: 10864641
Conc: 65.54 ug/ml



#11 n-Heneicosane (C21)

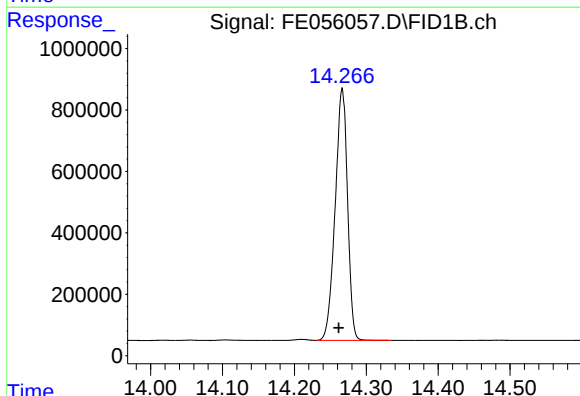
R.T.: 13.679 min
Delta R.T.: 0.006 min
Response: 10166796
Conc: 62.57 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



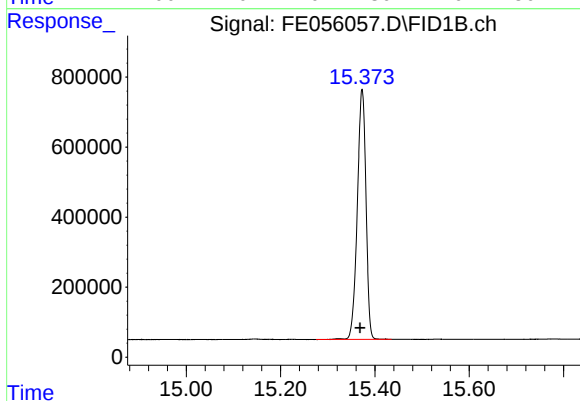
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min
Delta R.T.: 0.005 min
Response: 8160881
Conc: 58.47 ug/ml



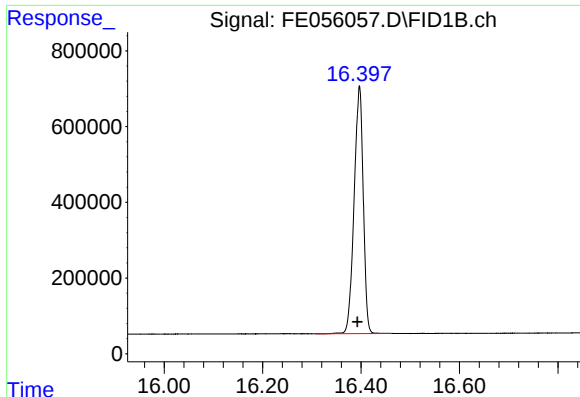
#13 n-Docosane (C22)

R.T.: 14.267 min
Delta R.T.: 0.005 min
Response: 9816245
Conc: 61.43 ug/ml



#14 n-Tetracosane (C24)

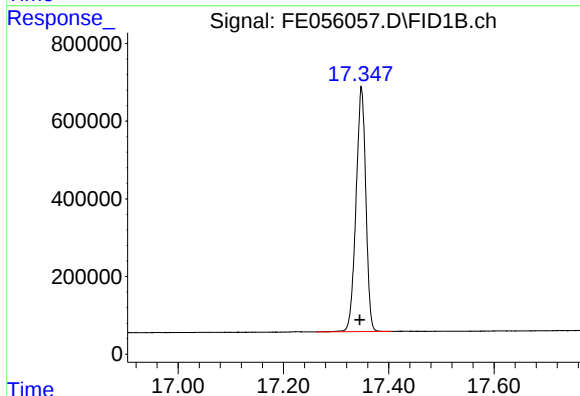
R.T.: 15.373 min
Delta R.T.: 0.004 min
Response: 9104534
Conc: 59.75 ug/ml



#15 n-Hexacosane (C26)

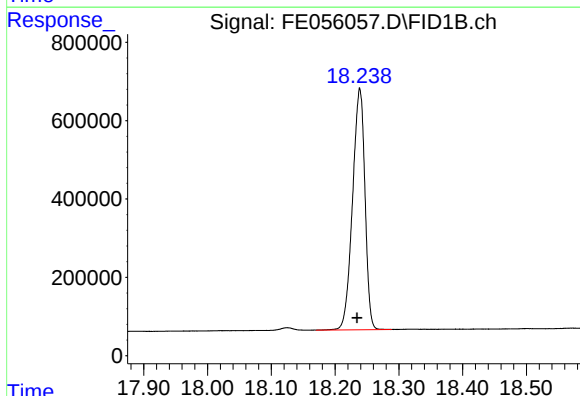
R.T.: 16.397 min
Delta R.T.: 0.004 min
Response: 8428572
Conc: 59.09 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



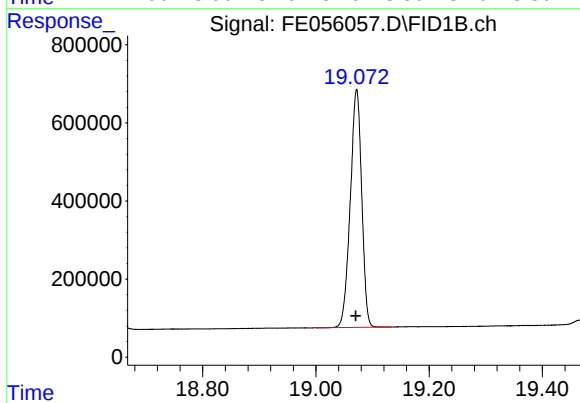
#16 n-Octacosane (C28)

R.T.: 17.348 min
Delta R.T.: 0.003 min
Response: 8119016
Conc: 58.28 ug/ml



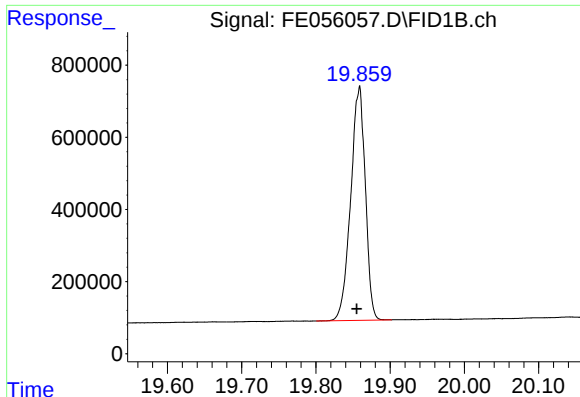
#17 n-Tricontane (C30)

R.T.: 18.239 min
Delta R.T.: 0.004 min
Response: 8329721
Conc: 56.21 ug/ml



#18 n-Dotriacontane (C32)

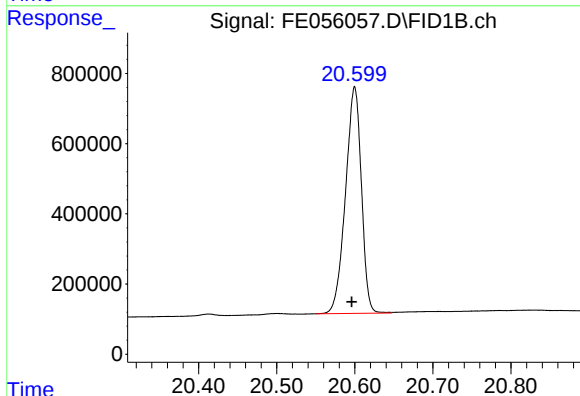
R.T.: 19.072 min
Delta R.T.: 0.002 min
Response: 8549001
Conc: 57.30 ug/ml



#19 n-Tetratriacontane (C34)

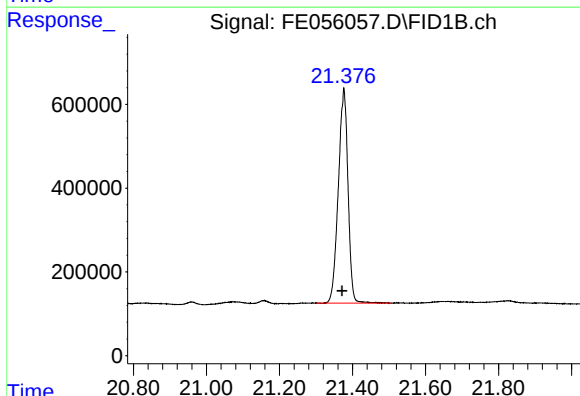
R.T.: 19.858 min
Delta R.T.: 0.003 min
Response: 8872363
Conc: 62.72 ug/ml

Instrument :
FID_E
ClientSampleId :
EME-TS14-01MSD



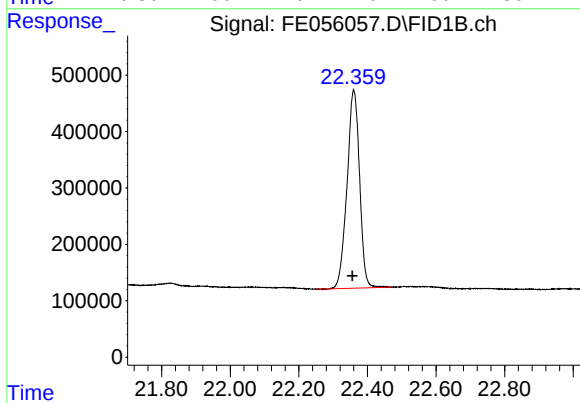
#20 n-Hexatriacontane (C36)

R.T.: 20.600 min
Delta R.T.: 0.004 min
Response: 9121579
Conc: 71.06 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.376 min
Delta R.T.: 0.005 min
Response: 9422243
Conc: 71.74 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.360 min
Delta R.T.: 0.003 min
Response: 8913426
Conc: 74.92 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092925AL\
Data File : FE056057.D
Signal(s) : FID1B.ch
Acq On : 29 Sep 2025 20:57
Sample : Q3179-03MSD
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.840	2.805	2.877	BV	64583	1047113	9.23%	0.521%
2	2.890	2.877	2.938	VV	1810	24163	0.21%	0.012%
3	2.955	2.938	3.038	VV	1114	12825	0.11%	0.006%
4	3.054	3.038	3.081	VV	337	3177	0.03%	0.002%
5	3.110	3.081	3.178	PV	51242	517291	4.56%	0.257%
6	3.199	3.178	3.271	VV	296	8492	0.07%	0.004%
7	3.287	3.271	3.352	VV	301	5119	0.05%	0.003%
8	3.358	3.352	3.380	VV	98	729	0.01%	0.000%
9	3.416	3.380	3.517	PV	575112	5796886	51.12%	2.884%
10	3.536	3.517	3.550	VV	442	6163	0.05%	0.003%
11	3.565	3.550	3.584	VV	462	6721	0.06%	0.003%
12	3.597	3.584	3.610	VV	347	3807	0.03%	0.002%
13	3.629	3.610	3.643	VV	383	5238	0.05%	0.003%
14	3.663	3.643	3.691	VV	414	7593	0.07%	0.004%
15	3.704	3.691	3.721	VV	275	2782	0.02%	0.001%
16	3.753	3.721	3.778	VV	428	9025	0.08%	0.004%
17	3.792	3.778	3.844	VV	495	9528	0.08%	0.005%
18	3.865	3.844	3.898	VV	274	4142	0.04%	0.002%
19	3.906	3.898	3.918	VV	129	1241	0.01%	0.001%
20	3.927	3.918	3.986	VV	168	3785	0.03%	0.002%
21	4.007	3.986	4.051	PV	410	7583	0.07%	0.004%
22	4.054	4.051	4.076	VV	136	1429	0.01%	0.001%
23	4.105	4.076	4.177	VV	246	7304	0.06%	0.004%
24	4.213	4.177	4.231	PV	580	8156	0.07%	0.004%
25	4.246	4.231	4.300	VV	793	11416	0.10%	0.006%
26	4.322	4.300	4.361	VV	408	5851	0.05%	0.003%
27	4.402	4.361	4.460	VV	754	19313	0.17%	0.010%
28	4.474	4.460	4.521	VV	208	4348	0.04%	0.002%
29	4.533	4.521	4.539	VV	160	1294	0.01%	0.001%
30	4.586	4.539	4.604	VV	630	11608	0.10%	0.006%
31	4.618	4.604	4.640	VV	270	3905	0.03%	0.002%
32	4.675	4.640	4.699	VV	729088	7123628	62.82%	3.544%
33	4.716	4.699	4.771	VV	53795	574460	5.07%	0.286%
34	4.788	4.771	4.814	VV	2588	33372	0.29%	0.017%
35	4.835	4.814	4.850	VV	2245	27064	0.24%	0.013%
36	4.863	4.850	4.882	VV	1461	18634	0.16%	0.009%

rteres.txt								
37	4.890	4.882	4.908	VV	612	7589	0.07%	0.004%
38	4.925	4.908	4.941	VV	924	11734	0.10%	0.006%
39	4.958	4.941	4.976	VV	1774	18844	0.17%	0.009%
40	4.989	4.976	5.021	VV	590	10874	0.10%	0.005%
41	5.041	5.021	5.051	VV	471	7053	0.06%	0.004%
42	5.064	5.051	5.077	VV	521	6834	0.06%	0.003%
43	5.096	5.077	5.130	VV	629	13598	0.12%	0.007%
44	5.141	5.130	5.247	VV	371	12937	0.11%	0.006%
45	5.289	5.247	5.304	VV	405	6190	0.05%	0.003%
46	5.319	5.304	5.331	VV	504	5280	0.05%	0.003%
47	5.348	5.331	5.356	VV	565	6267	0.06%	0.003%
48	5.376	5.356	5.409	VV	4167	48608	0.43%	0.024%
49	5.437	5.409	5.471	VV	1267	17720	0.16%	0.009%
50	5.487	5.471	5.520	VV	824	12011	0.11%	0.006%
51	5.564	5.520	5.575	VV	591	9688	0.09%	0.005%
52	5.582	5.575	5.594	VV	522	4642	0.04%	0.002%
53	5.607	5.594	5.665	VV	478	11963	0.11%	0.006%
54	5.698	5.665	5.734	VV	678	18506	0.16%	0.009%
55	5.754	5.734	5.767	VV	633	8067	0.07%	0.004%
56	5.776	5.767	5.795	VV	531	6381	0.06%	0.003%
57	5.813	5.795	5.838	VV	3356	37988	0.34%	0.019%
58	5.856	5.838	5.878	VV	1611	18896	0.17%	0.009%
59	5.915	5.878	5.935	VV	428	9347	0.08%	0.005%
60	5.961	5.935	5.975	VV	547	9368	0.08%	0.005%
61	6.003	5.975	6.035	VV	689	15359	0.14%	0.008%
62	6.041	6.035	6.060	VV	191	1973	0.02%	0.001%
63	6.081	6.060	6.095	VV	223	3324	0.03%	0.002%
64	6.110	6.095	6.158	VV	402	8768	0.08%	0.004%
65	6.184	6.158	6.222	VV	311	6176	0.05%	0.003%
66	6.235	6.222	6.271	PV	136	2241	0.02%	0.001%
67	6.295	6.271	6.317	PV	338	4692	0.04%	0.002%
68	6.347	6.317	6.361	VV	281	4128	0.04%	0.002%
69	6.393	6.361	6.432	VV	28930	317015	2.80%	0.158%
70	6.445	6.432	6.475	VV	1192	22543	0.20%	0.011%
71	6.491	6.475	6.534	VV	1698	28127	0.25%	0.014%
72	6.555	6.534	6.581	VV	1319	19471	0.17%	0.010%
73	6.590	6.581	6.600	VV	400	4506	0.04%	0.002%
74	6.627	6.600	6.662	VV	691	20194	0.18%	0.010%
75	6.672	6.662	6.703	VV	415	8775	0.08%	0.004%
76	6.731	6.703	6.751	VV	589	11252	0.10%	0.006%
77	6.780	6.751	6.815	VV	347	11023	0.10%	0.005%
78	6.849	6.815	6.915	VV	839221	8484724	74.83%	4.221%
79	6.932	6.915	6.953	VV	1717	30495	0.27%	0.015%
80	6.968	6.953	6.984	VV	1276	19764	0.17%	0.010%
81	7.001	6.984	7.023	VV	2362	33772	0.30%	0.017%
82	7.033	7.023	7.058	VV	1020	16221	0.14%	0.008%
83	7.075	7.058	7.112	VV	1315	21258	0.19%	0.011%
84	7.142	7.112	7.162	VV	780	15182	0.13%	0.008%
85	7.170	7.162	7.208	VV	373	7817	0.07%	0.004%
86	7.222	7.208	7.248	VV	381	5898	0.05%	0.003%
87	7.253	7.248	7.273	VV	233	2928	0.03%	0.001%
88	7.301	7.273	7.336	VV	1130	19395	0.17%	0.010%
89	7.358	7.336	7.378	VV	1266	19655	0.17%	0.010%

rteres.txt								
90	7.426	7.378	7.454	VV	1996	50467	0.45%	0.025%
91	7.492	7.454	7.585	VV	15809	208788	1.84%	0.104%
92	7.597	7.585	7.618	VV	611	8365	0.07%	0.004%
93	7.653	7.618	7.699	VV	4472	56925	0.50%	0.028%
94	7.732	7.699	7.748	VV	834	15996	0.14%	0.008%
95	7.762	7.748	7.773	VV	683	7881	0.07%	0.004%
96	7.796	7.773	7.821	VV	3831	46677	0.41%	0.023%
97	7.830	7.821	7.845	VV	407	4669	0.04%	0.002%
98	7.863	7.845	7.877	VV	855	11870	0.10%	0.006%
99	7.889	7.877	7.910	VV	720	8402	0.07%	0.004%
100	7.921	7.910	7.930	VV	157	1124	0.01%	0.001%
101	7.963	7.930	7.989	VV	442	6930	0.06%	0.003%
102	8.020	7.989	8.041	VV	220	3518	0.03%	0.002%
103	8.063	8.041	8.084	PV	1671	19136	0.17%	0.010%
104	8.093	8.084	8.106	VV	391	4328	0.04%	0.002%
105	8.121	8.106	8.150	VV	536	11319	0.10%	0.006%
106	8.161	8.150	8.188	VV	484	6919	0.06%	0.003%
107	8.232	8.188	8.273	VV	659	18923	0.17%	0.009%
108	8.289	8.273	8.316	VV	404	7504	0.07%	0.004%
109	8.329	8.316	8.351	VV	506	5171	0.05%	0.003%
110	8.373	8.351	8.405	VV	4320	47839	0.42%	0.024%
111	8.431	8.405	8.453	VV	3810	41849	0.37%	0.021%
112	8.468	8.453	8.511	VV	414	8808	0.08%	0.004%
113	8.540	8.511	8.555	VV	677	11245	0.10%	0.006%
114	8.588	8.555	8.627	VV	2237	42247	0.37%	0.021%
115	8.642	8.627	8.650	VV	660	7070	0.06%	0.004%
116	8.686	8.650	8.759	VV	897327	9332410	82.30%	4.643%
117	8.802	8.759	8.858	VV	3131	85098	0.75%	0.042%
118	8.874	8.858	8.900	VV	1219	21304	0.19%	0.011%
119	8.916	8.900	8.945	VV	1622	19970	0.18%	0.010%
120	8.961	8.945	8.974	PV	114	1400	0.01%	0.001%
121	9.003	8.974	9.081	VV	53122	663852	5.85%	0.330%
122	9.101	9.081	9.125	VV	8446	105955	0.93%	0.053%
123	9.154	9.125	9.207	VV	2770	98820	0.87%	0.049%
124	9.225	9.207	9.268	VV	2154	47101	0.42%	0.023%
125	9.288	9.268	9.317	VV	900	14433	0.13%	0.007%
126	9.343	9.317	9.365	VV	688	10950	0.10%	0.005%
127	9.414	9.365	9.433	VV	2779	52207	0.46%	0.026%
128	9.447	9.433	9.463	VV	1977	26572	0.23%	0.013%
129	9.470	9.463	9.488	VV	1223	14846	0.13%	0.007%
130	9.528	9.488	9.578	VV	4585	107276	0.95%	0.053%
131	9.601	9.578	9.628	VV	1018	13589	0.12%	0.007%
132	9.650	9.628	9.677	VV	760	9163	0.08%	0.005%
133	9.697	9.677	9.717	VV	415	6324	0.06%	0.003%
134	9.732	9.717	9.744	VV	451	5640	0.05%	0.003%
135	9.754	9.744	9.780	VV	445	7251	0.06%	0.004%
136	9.815	9.780	9.836	VV	1133	21073	0.19%	0.010%
137	9.887	9.836	9.917	VV	2851	47228	0.42%	0.023%
138	9.935	9.917	9.949	VV	977	11892	0.10%	0.006%
139	9.975	9.949	10.001	VV	1073	22302	0.20%	0.011%
140	10.027	10.001	10.052	VV	1293	24106	0.21%	0.012%
141	10.074	10.052	10.114	VV	3868	45016	0.40%	0.022%

rteres.txt								
142	10.153	10.114	10.178	VV	618	12225	0.11%	0.006%
143	10.216	10.178	10.260	VV	2169	38978	0.34%	0.019%
144	10.301	10.260	10.434	VV	928736	10312484	90.95%	5.130%
145	10.446	10.434	10.461	VV	600	7993	0.07%	0.004%
146	10.469	10.461	10.496	VV	506	5557	0.05%	0.003%
147	10.547	10.496	10.557	PV	289	4050	0.04%	0.002%
148	10.577	10.557	10.591	VV	491	6306	0.06%	0.003%
149	10.618	10.591	10.657	VV	825	19098	0.17%	0.010%
150	10.692	10.657	10.710	VV	1184	23114	0.20%	0.011%
151	10.738	10.710	10.816	VV	2464	72419	0.64%	0.036%
152	10.847	10.816	10.870	VV	794	17582	0.16%	0.009%
153	10.939	10.870	10.955	VV	969	38362	0.34%	0.019%
154	10.973	10.955	11.005	VV	1255	31112	0.27%	0.015%
155	11.038	11.005	11.074	VV	2206	49630	0.44%	0.025%
156	11.095	11.074	11.109	VV	1036	15181	0.13%	0.008%
157	11.127	11.109	11.138	VV	853	13708	0.12%	0.007%
158	11.168	11.138	11.206	VV	2483	49421	0.44%	0.025%
159	11.211	11.206	11.220	VV	428	3396	0.03%	0.002%
160	11.236	11.220	11.245	VV	655	7852	0.07%	0.004%
161	11.258	11.245	11.278	VV	755	10787	0.10%	0.005%
162	11.296	11.278	11.308	VV	402	6052	0.05%	0.003%
163	11.325	11.308	11.341	VV	554	9357	0.08%	0.005%
164	11.362	11.341	11.387	VV	918	16990	0.15%	0.008%
165	11.437	11.387	11.454	VV	3111	60410	0.53%	0.030%
166	11.468	11.454	11.518	VV	2119	43804	0.39%	0.022%
167	11.548	11.518	11.594	VV	2661	36334	0.32%	0.018%
168	11.613	11.594	11.639	VV	243	3994	0.04%	0.002%
169	11.675	11.639	11.706	VV	6436	81661	0.72%	0.041%
170	11.750	11.706	11.820	VV	929003	10702050	94.38%	5.324%
171	11.840	11.820	11.873	VV	1307	24373	0.21%	0.012%
172	11.886	11.873	11.930	VV	352	5970	0.05%	0.003%
173	11.976	11.930	11.998	PV	247	5813	0.05%	0.003%
174	12.069	11.998	12.084	VV	536	17203	0.15%	0.009%
175	12.134	12.084	12.153	VV	1501	36401	0.32%	0.018%
176	12.166	12.153	12.187	VV	1083	17968	0.16%	0.009%
177	12.205	12.187	12.218	VV	984	14891	0.13%	0.007%
178	12.232	12.218	12.252	VV	1231	15684	0.14%	0.008%
179	12.262	12.252	12.282	VV	265	3177	0.03%	0.002%
180	12.414	12.282	12.442	VV	2634	74349	0.66%	0.037%
181	12.462	12.442	12.495	VV	858	16960	0.15%	0.008%
182	12.581	12.495	12.604	VV	1417	50756	0.45%	0.025%
183	12.638	12.604	12.655	VV	2051	45433	0.40%	0.023%
184	12.670	12.655	12.740	VV	1828	60109	0.53%	0.030%
185	12.754	12.740	12.768	VV	724	10532	0.09%	0.005%
186	12.785	12.768	12.813	VV	1966	32251	0.28%	0.016%
187	12.884	12.813	12.897	VV	3072	70129	0.62%	0.035%
188	12.915	12.897	12.945	VV	4808	70196	0.62%	0.035%
189	12.955	12.945	12.967	VV	334	3498	0.03%	0.002%
190	12.999	12.967	13.024	VV	4425	58897	0.52%	0.029%
191	13.065	13.024	13.118	VV	913450	10890304	96.04%	5.418%
192	13.124	13.118	13.163	VV	853	15276	0.13%	0.008%
193	13.178	13.163	13.248	VV	606	12492	0.11%	0.006%
194	13.323	13.248	13.365	PV	757	19259	0.17%	0.010%

rteres.txt							
195	13.417	13.365	13.436	VV	1341	25371	0.22% 0.013%
196	13.466	13.436	13.478	VV	6741	88918	0.78% 0.044%
197	13.512	13.478	13.595	VV	688074	8215696	72.45% 4.087%
198	13.615	13.595	13.637	VV	985	19559	0.17% 0.010%
199	13.679	13.637	13.767	VV	825796	10237416	90.28% 5.093%
200	13.792	13.767	13.850	VV	879	26868	0.24% 0.013%
201	13.884	13.850	13.910	VV	743	19490	0.17% 0.010%
202	13.944	13.910	13.992	VV	1013	31652	0.28% 0.016%
203	14.018	13.992	14.038	VV	1026	16221	0.14% 0.008%
204	14.054	14.038	14.081	VV	1371	20347	0.18% 0.010%
205	14.105	14.081	14.148	VV	2079	37746	0.33% 0.019%
206	14.210	14.148	14.228	VV	3804	58555	0.52% 0.029%
207	14.267	14.228	14.345	VV	816223	9842118	86.80% 4.896%
208	14.358	14.345	14.377	VV	353	5471	0.05% 0.003%
209	14.394	14.377	14.409	VV	336	3776	0.03% 0.002%
210	14.418	14.409	14.435	VV	130	1418	0.01% 0.001%
211	14.462	14.435	14.475	VV	462	7997	0.07% 0.004%
212	14.489	14.475	14.542	VV	555	13124	0.12% 0.007%
213	14.552	14.542	14.573	VV	270	3117	0.03% 0.002%
214	14.595	14.573	14.615	PV	384	4825	0.04% 0.002%
215	14.698	14.615	14.768	VV	23808	316338	2.79% 0.157%
216	14.776	14.768	14.802	VV	404	6474	0.06% 0.003%
217	14.826	14.802	14.861	VV	1160	16506	0.15% 0.008%
218	14.898	14.861	14.916	VV	403	8944	0.08% 0.004%
219	14.967	14.916	15.008	VV	543	19802	0.17% 0.010%
220	15.033	15.008	15.061	VV	351	8537	0.08% 0.004%
221	15.084	15.061	15.095	VV	455	6267	0.06% 0.003%
222	15.145	15.095	15.166	VV	1695	33578	0.30% 0.017%
223	15.174	15.166	15.199	VV	598	8827	0.08% 0.004%
224	15.225	15.199	15.258	VV	604	10918	0.10% 0.005%
225	15.269	15.258	15.278	VV	148	1054	0.01% 0.001%
226	15.324	15.278	15.334	PV	2551	33693	0.30% 0.017%
227	15.373	15.334	15.504	VV	715253	9104685	80.29% 4.529%
228	15.533	15.504	15.551	VV	705	10374	0.09% 0.005%
229	15.561	15.551	15.611	VV	288	4927	0.04% 0.002%
230	15.623	15.611	15.638	VV	128	993	0.01% 0.000%
231	15.645	15.638	15.657	PV	82	435	0.00% 0.000%
232	15.689	15.657	15.698	PV	125	1665	0.01% 0.001%
233	15.781	15.698	15.810	PV	643	17554	0.15% 0.009%
234	15.849	15.810	15.865	VV	499	8945	0.08% 0.004%
235	15.889	15.865	15.931	VV	1930	28403	0.25% 0.014%
236	15.972	15.931	15.988	VV	219	4821	0.04% 0.002%
237	16.035	15.988	16.049	VV	220	4079	0.04% 0.002%
238	16.067	16.049	16.079	VV	184	2606	0.02% 0.001%
239	16.086	16.079	16.118	VV	138	2106	0.02% 0.001%
240	16.125	16.118	16.134	VV	115	631	0.01% 0.000%
241	16.156	16.134	16.178	PV	198	3024	0.03% 0.002%
242	16.252	16.178	16.263	VV	364	10969	0.10% 0.005%
243	16.286	16.263	16.311	VV	219	4241	0.04% 0.002%
244	16.397	16.311	16.478	PV	659143	8449215	74.51% 4.203%
245	16.487	16.478	16.501	VV	164	1859	0.02% 0.001%
246	16.525	16.501	16.542	VV	295	3970	0.04% 0.002%

rteres.txt								
247	16.586	16.542	16.595	VV	233	6370	0.06%	0.003%
248	16.605	16.595	16.614	VV	150	1332	0.01%	0.001%
249	16.773	16.614	16.785	PV	137	653	0.01%	0.000%
250	16.876	16.785	16.928	VV	2356	43026	0.38%	0.021%
251	16.961	16.928	16.991	VV	205	4867	0.04%	0.002%
252	17.050	16.991	17.068	PV	229	5113	0.05%	0.003%
253	17.091	17.068	17.105	VV	184	2253	0.02%	0.001%
254	17.227	17.105	17.254	PV	776	9222	0.08%	0.005%
255	17.348	17.254	17.406	VV	630924	8150270	71.88%	4.055%
256	17.431	17.406	17.455	VV	597	14103	0.12%	0.007%
257	17.458	17.455	17.505	VV	390	6817	0.06%	0.003%
258	17.511	17.505	17.519	VV	158	999	0.01%	0.000%
259	18.613	18.519	18.643	VV	331	6450	0.06%	0.003%
260	17.686	17.643	17.698	PV	207	3343	0.03%	0.002%
261	17.733	17.698	17.740	PV	258	4677	0.04%	0.002%
262	17.795	17.740	17.827	VV	3699	58078	0.51%	0.029%
263	17.886	17.827	17.911	PV	519	8877	0.08%	0.004%
264	18.125	17.911	18.156	PV	6985	129703	1.14%	0.065%
265	18.239	18.156	18.295	VV	614819	8370774	73.82%	4.164%
266	18.323	18.295	18.346	VV	1029	24891	0.22%	0.012%
267	18.501	18.346	18.520	VV	596	26155	0.23%	0.013%
268	18.571	18.520	18.585	PV	862	11467	0.10%	0.006%
269	18.657	18.585	18.688	VV	7996	125084	1.10%	0.062%
270	18.754	18.688	18.768	VV	260	6290	0.06%	0.003%
271	19.072	18.768	19.134	VV	608822	8560041	75.49%	4.258%
272	19.168	19.134	19.181	VV	692	14025	0.12%	0.007%
273	19.200	19.181	19.218	VV	403	6745	0.06%	0.003%
274	19.372	19.218	19.385	PV	1003	36404	0.32%	0.018%
275	19.465	19.385	19.498	VV	13167	264869	2.34%	0.132%
276	19.664	19.498	19.681	VV	4142	343127	3.03%	0.171%
277	19.720	19.681	19.733	VV	4434	128914	1.14%	0.064%
278	19.770	19.733	19.778	VV	4912	119154	1.05%	0.059%
279	19.858	19.778	19.901	VV	645450	9272478	81.77%	4.613%
280	19.965	19.901	19.989	VV	7161	361736	3.19%	0.180%
281	20.141	19.989	20.168	VV	11147	926942	8.17%	0.461%
282	20.228	20.168	20.261	VV	19794	729147	6.43%	0.363%
283	20.413	20.261	20.437	VV	19847	1472634	12.99%	0.733%
284	20.501	20.437	20.535	VV	20266	1031155	9.09%	0.513%
285	20.600	20.535	20.648	VV	665330	10420681	91.90%	5.184%
286	20.708	20.648	20.718	VV	23065	950053	8.38%	0.473%
287	20.786	20.718	20.794	VV	24760	1077432	9.50%	0.536%
288	20.831	20.794	20.924	VV	25208	1825095	16.10%	0.908%
289	20.960	20.924	20.995	VV	26184	945834	8.34%	0.471%
290	21.075	20.995	21.125	VV	24746	1726511	15.23%	0.859%
291	21.157	21.125	21.193	VV	26521	909880	8.02%	0.453%
292	21.207	21.193	21.229	VV	19101	398043	3.51%	0.198%
293	21.264	21.229	21.278	VV	19223	552332	4.87%	0.275%
294	21.300	21.278	21.319	VV	18817	461802	4.07%	0.230%
295	21.376	21.319	21.507	VV	527905	11339219	100.00%	5.641%
296	21.525	21.507	21.561	VV	16082	506128	4.46%	0.252%
297	21.662	21.561	21.739	VV	17565	1704650	15.03%	0.848%
298	21.751	21.739	21.760	VV	14352	178695	1.58%	0.089%
299	21.825	21.760	21.893	VV	16837	1124286	9.92%	0.559%

					rteres.txt			
300	21.910	21.893	22.024	VV	10537	673060	5.94%	0.335%
301	22.057	22.024	22.128	VV	6836	379438	3.35%	0.189%
302	22.155	22.128	22.258	VV	4743	222064	1.96%	0.110%
303	22.268	22.258	22.274	VV	247	2296	0.02%	0.001%
304	22.360	22.274	22.472	PV	350382	8940543	78.85%	4.448%
					Sum of corrected areas:		201016179	

Aliphatic EPH 092425.M Tue Sep 30 06:35:37 2025

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.:	Q3179	
Lab Sample ID:	Q3179-03		Matrix:	Water	
Analytical Method:	NJEPH		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :	SW3510				

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016478.D	1	09/29/25	09/29/25	PB169879

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	216		2.07	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	359		4.26	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	745		8.27	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	933		23.8	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	49.3		40 - 140	99%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	48.5		40 - 140	97%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q3179-03	Acq On:	29 Sep 2025 20:33
Client Sample ID:	EME-TS14-01MSD	Operator:	YP\AJ
Data file:	FF016478.D	Misc:	
Instrument:	FID_F	ALS Vial:	89
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.521	6.397	15510841	108.224	200	ug/ml
Aromatic C12-C16	6.398	9.101	26121744	179.92	300	ug/ml
Aromatic C16-C21	9.102	13.420	53705559	372.508	500	ug/ml
Aromatic C21-C36	13.421	18.876	61061959	466.713	800	ug/ml
Aromatic EPH	4.521	18.876	156400103	1130		ug/ml
2-Bromonaphthalene (SURR)	8.027	8.027	6177103	49.31		ug/ml
2-Fluorobiphenyl (SURR)	8.903	8.903	3780657	44.83		ug/ml
ortho-Terphenyl (SURR)	11.971	11.971	7387930	48.46		ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
 Data File : FF016478.D
 Signal(s) : FID2B.ch
 Acq On : 29 Sep 2025 20:33
 Operator : YP\AJ
 Sample : Q3179-03MSD
 Misc :
 ALS Vial : 89 Sample Multiplier: 1

Instrument :
 FID_F
 ClientSampleId :
 EME-TS14-01MSD

Integration File: autoint1.e
 Quant Time: Sep 30 01:06:41 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...	8.027	6177103	49.312 ug/ml
Spiked Amount 50.000		Recovery =	98.62%
6) S 2-Fluorobiphenyl (SURR)	8.903	3780657	44.827 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	89.65%
11) S ortho-Terphenyl (SURR)	11.971	7387930	48.462 ug/ml
Spiked Amount 50.000		Recovery =	96.92%
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.621	6523757	46.280 ug/ml
2) T Naphthalene (C11.7)	6.298	7439663	51.068 ug/ml
3) T 2-Methylnaphthalene (...)	7.398	7144507	48.529 ug/ml
5) T Acenaphthylene (C15.06)	8.705	7976442	55.041 ug/ml
7) T Acenaphthene (C15.5)	9.006	8085770	56.379 ug/ml
8) T Flouorene (C16.55)	9.796	8201591	56.773 ug/ml
9) T Phenanthrene (C19.36)	11.203	8133608	55.764 ug/ml
10) T Anthracene (C19.43)	11.280	8088666	56.536 ug/ml
12) T Fluoranthene (C21.85)	13.028	7912752	54.179 ug/ml
13) T Pyrene (C20.8)	13.328	7861443	54.859 ug/ml
14) T Benzo[a]anthracene (C...	15.212	7393494	54.315 ug/ml
15) T Chrysene (C27.41)	15.257	8048520	56.422 ug/ml
16) T benzo[b]fluoranthene ...	16.774	7026231	53.472 ug/ml
17) T Bnezo[k]fluoranthene ...	16.810	6974796	55.413 ug/ml
18) T Benzo[a]pyrene (C31.34)	17.156	6759084	52.934 ug/ml
19) T Indeno[1,2,3-cd]pyren...	18.533	7230058	63.400 ug/ml
20) T Dibenz[a,h]anthracene...	18.571	6691161	51.253 ug/ml
21) T Benzo[g,h,i]perylene ...	18.791	6530278	53.032 ug/ml

(f)=RT Delta > 1/2 Window

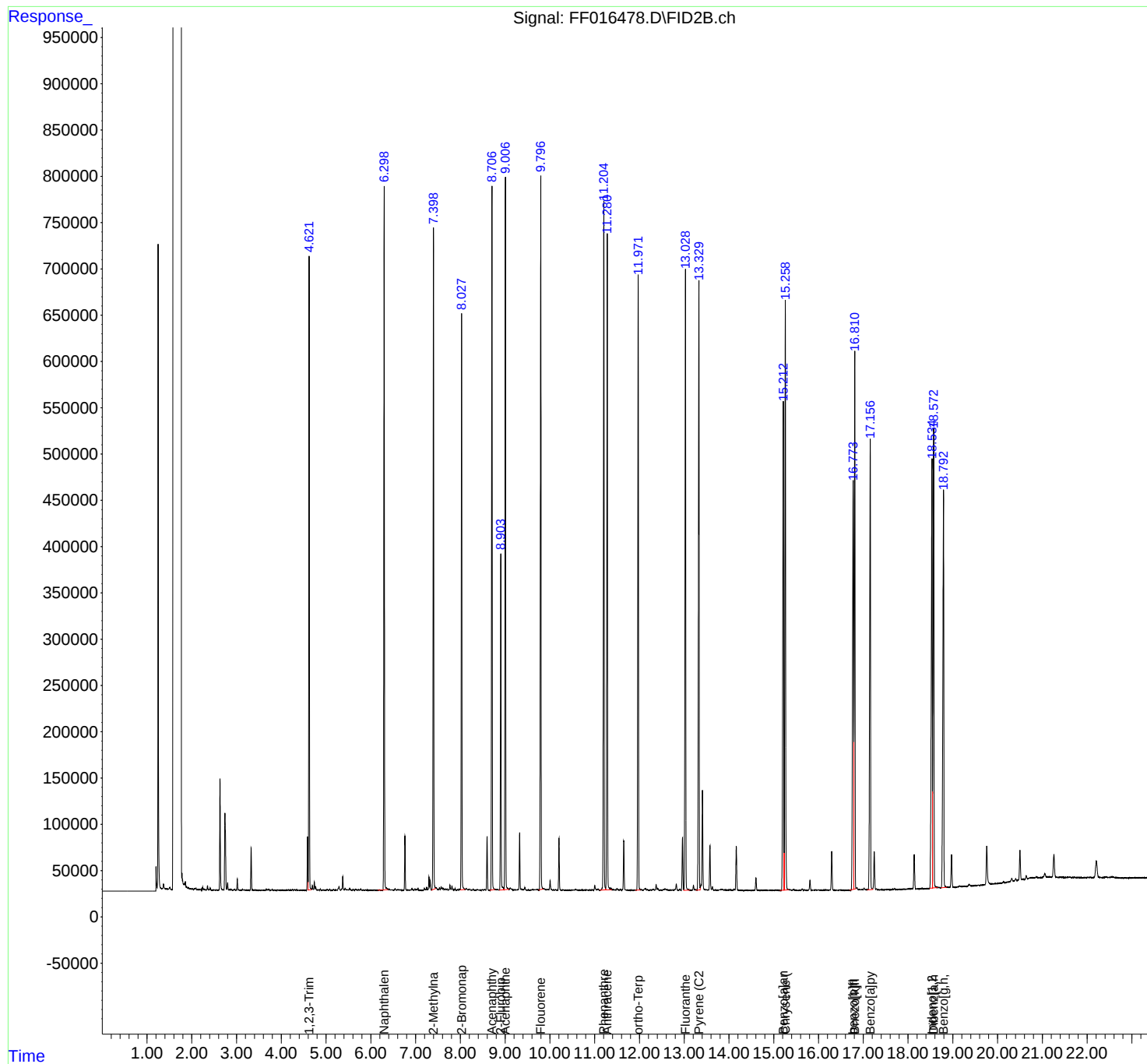
(m)=manual int.

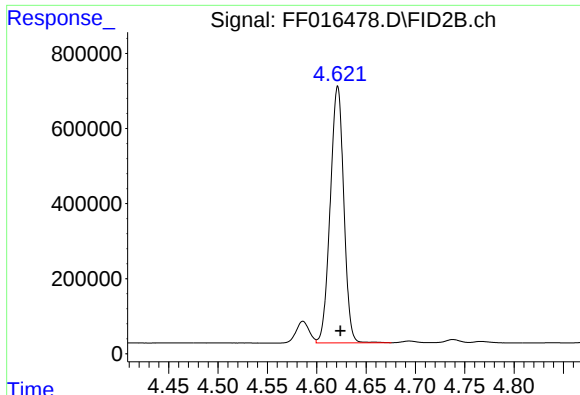
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016478.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:33
Operator : YP\AJ
Sample : Q3179-03MSD
Misc :
ALS Vial : 89 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD

Integration File: autoint1.e
Quant Time: Sep 30 01:06:41 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

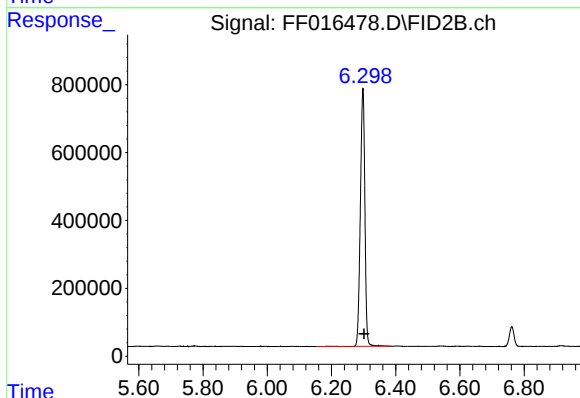




#1 1,2,3-Trimethylbenzene (C10.1)

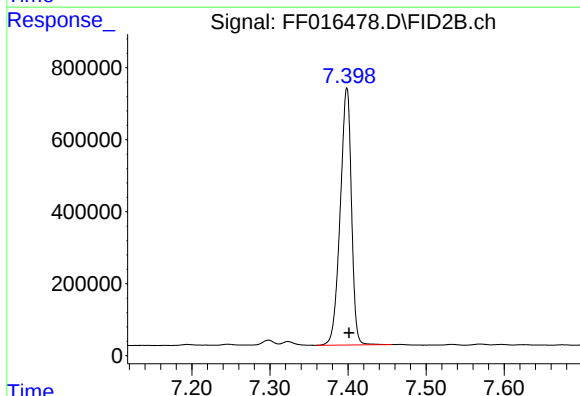
R.T.: 4.621 min
Delta R.T.: -0.003 min
Response: 6523757
Conc: 46.28 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



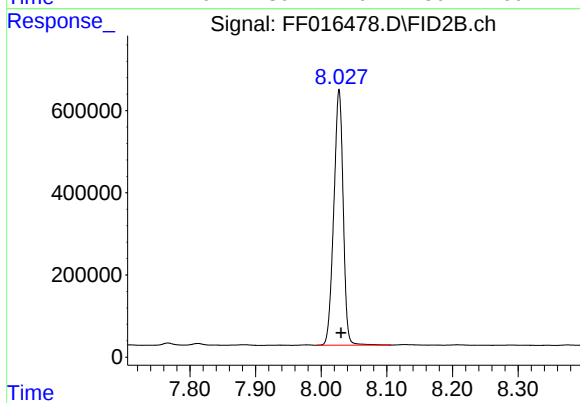
#2 Naphthalene (C11.7)

R.T.: 6.298 min
Delta R.T.: -0.003 min
Response: 7439663
Conc: 51.07 ug/ml



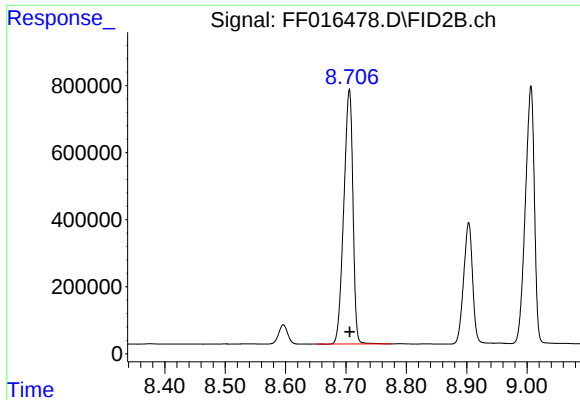
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.398 min
Delta R.T.: -0.003 min
Response: 7144507
Conc: 48.53 ug/ml



#4 2-Bromonaphthalene (SURR)

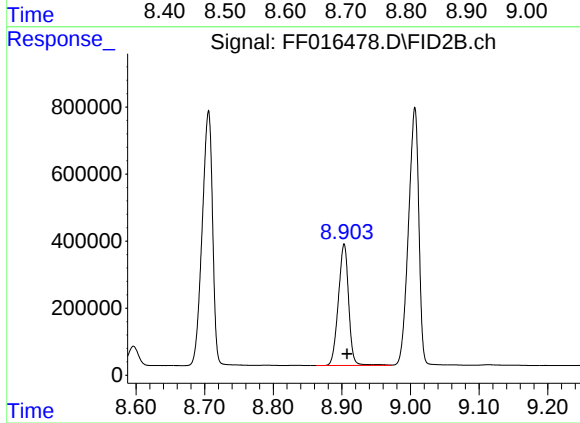
R.T.: 8.027 min
Delta R.T.: -0.003 min
Response: 6177103
Conc: 49.31 ug/ml



#5 Acenaphthylene (C15.06)

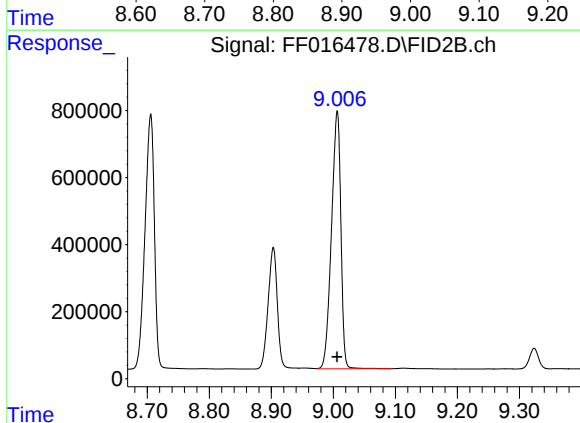
R.T.: 8.705 min
Delta R.T.: 0.000 min
Response: 7976442
Conc: 55.04 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



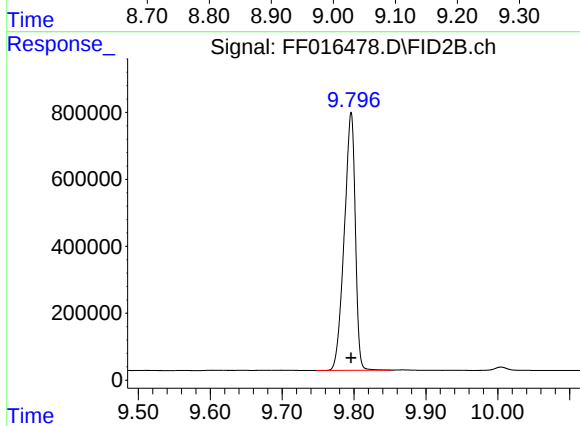
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.903 min
Delta R.T.: -0.004 min
Response: 3780657
Conc: 44.83 ug/ml



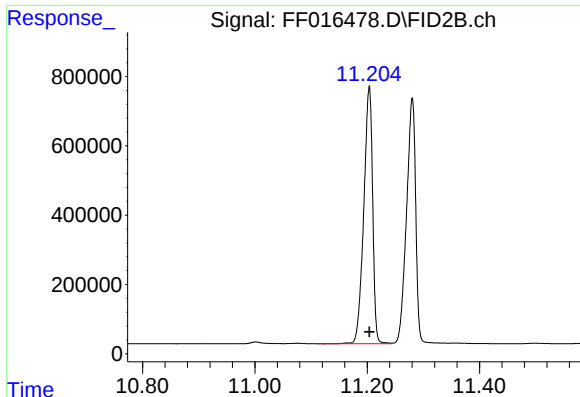
#7 Acenaphthene (C15.5)

R.T.: 9.006 min
Delta R.T.: 0.000 min
Response: 8085770
Conc: 56.38 ug/ml



#8 Flouorene (C16.55)

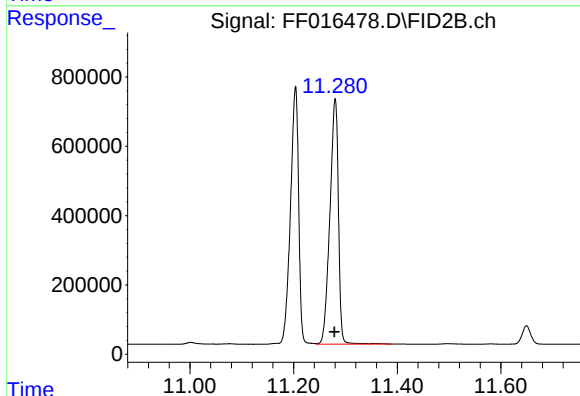
R.T.: 9.796 min
Delta R.T.: 0.000 min
Response: 8201591
Conc: 56.77 ug/ml



#9 Phenanthrene (C19.36)

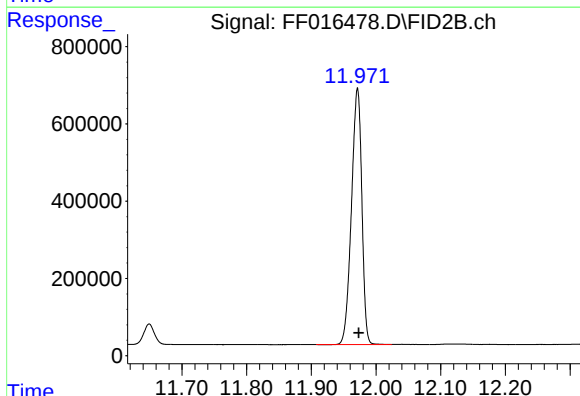
R.T.: 11.203 min
Delta R.T.: 0.000 min
Response: 8133608
Conc: 55.76 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



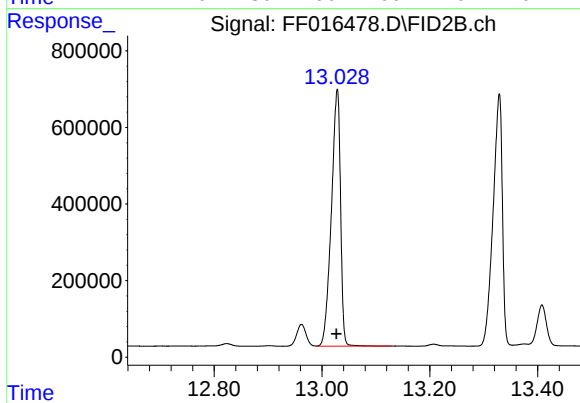
#10 Anthracene (C19.43)

R.T.: 11.280 min
Delta R.T.: 0.001 min
Response: 8088666
Conc: 56.54 ug/ml



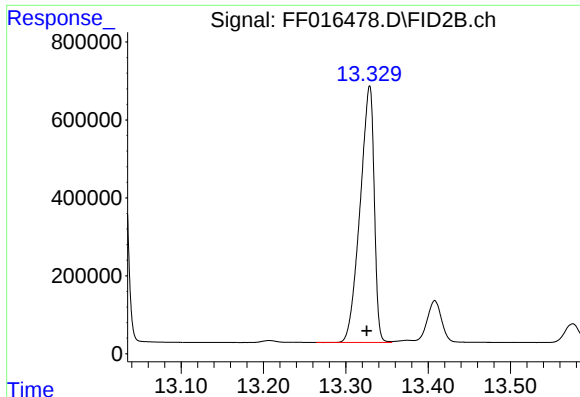
#11 ortho-Terphenyl (SURR)

R.T.: 11.971 min
Delta R.T.: -0.002 min
Response: 7387930
Conc: 48.46 ug/ml



#12 Fluoranthene (C21.85)

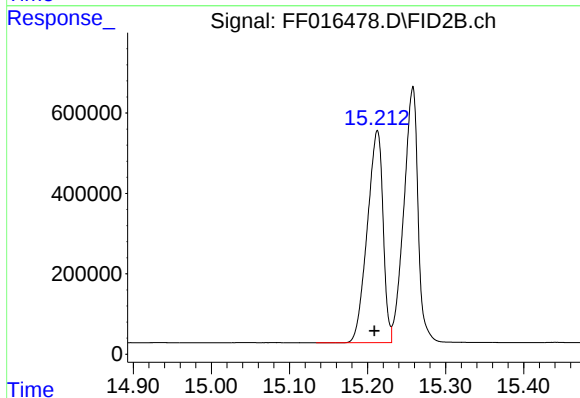
R.T.: 13.028 min
Delta R.T.: 0.001 min
Response: 7912752
Conc: 54.18 ug/ml



#13 Pyrene (C20.8)

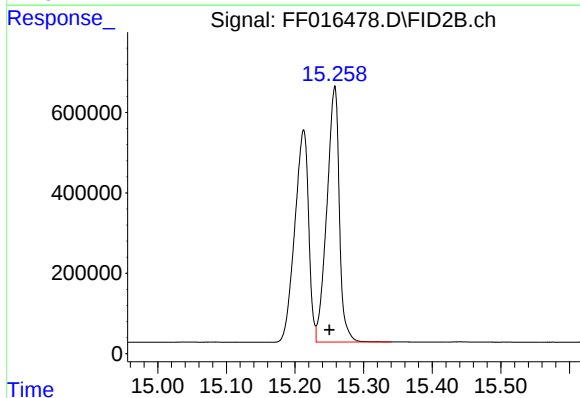
R.T.: 13.328 min
Delta R.T.: 0.003 min
Response: 7861443
Conc: 54.86 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



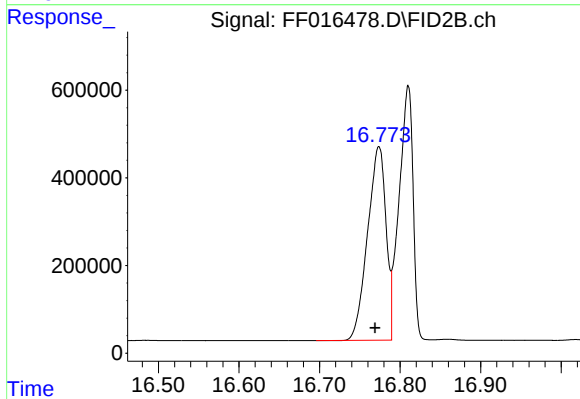
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min
Delta R.T.: 0.003 min
Response: 7393494
Conc: 54.32 ug/ml



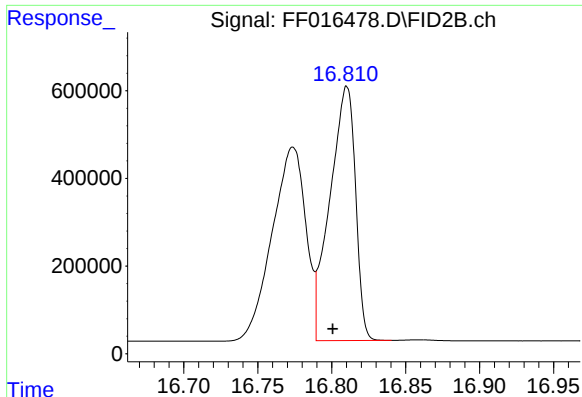
#15 Chrysene (C27.41)

R.T.: 15.257 min
Delta R.T.: 0.007 min
Response: 8048520
Conc: 56.42 ug/ml



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

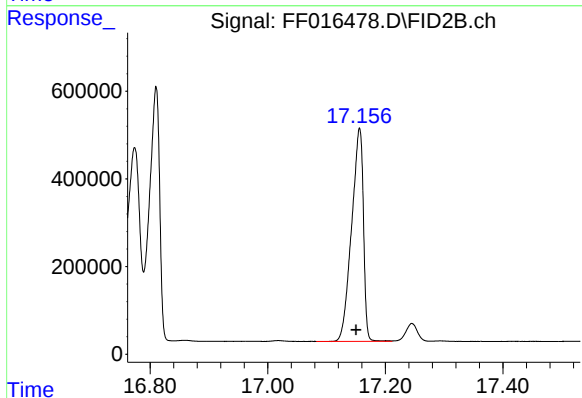
R.T.: 16.774 min
Delta R.T.: 0.005 min
Response: 7026231
Conc: 53.47 ug/ml



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

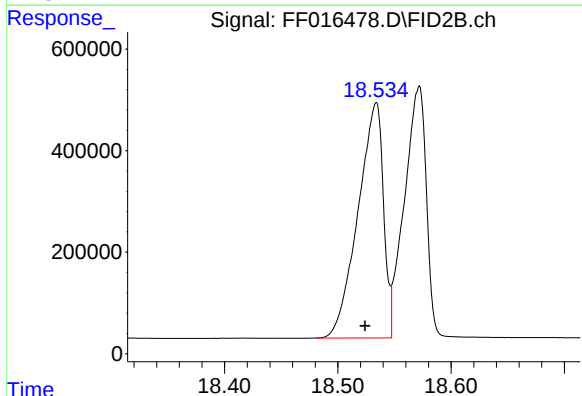
R.T.: 16.810 min
Delta R.T.: 0.009 min
Response: 6974796
Conc: 55.41 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD



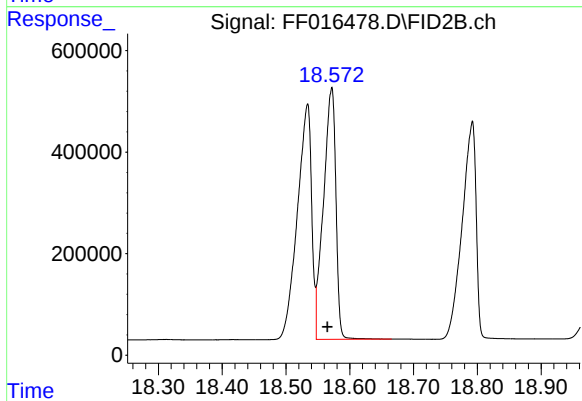
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.156 min
Delta R.T.: 0.006 min
Response: 6759084
Conc: 52.93 ug/ml



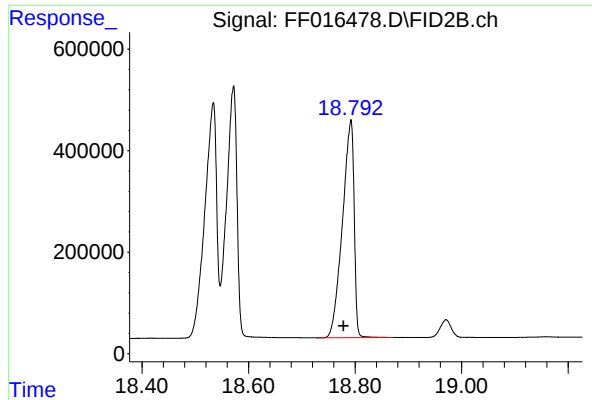
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.533 min
Delta R.T.: 0.009 min
Response: 7230058
Conc: 63.40 ug/ml



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

R.T.: 18.571 min
Delta R.T.: 0.006 min
Response: 6691161
Conc: 51.25 ug/ml



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

R.T.: 18.791 min
Delta R.T.: 0.013 min
Response: 6530278
Conc: 53.03 ug/ml

Instrument :
FID_F
ClientSampleId :
EME-TS14-01MSD

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Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF092925AR\
Data File : FF016478.D
Signal(s) : FID2B.ch
Acq On : 29 Sep 2025 20:33
Sample : Q3179-03MSD
Misc :
ALS Vial : 89 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	4.452	4.411	4.462	BV	282	1890	0.02%	0.001%
2	4.471	4.462	4.487	VV	338	2885	0.03%	0.002%
3	4.501	4.487	4.519	VV	349	3763	0.05%	0.002%
4	4.525	4.519	4.559	VV	201	1685	0.02%	0.001%
5	4.586	4.559	4.600	PV	58183	536577	6.49%	0.322%
6	4.621	4.600	4.653	VV	684782	6527251	78.90%	3.922%
7	4.658	4.653	4.676	VV	2412	25414	0.31%	0.015%
8	4.694	4.676	4.715	VV	5436	64680	0.78%	0.039%
9	4.738	4.715	4.754	VV	9412	104524	1.26%	0.063%
10	4.766	4.754	4.796	VV	4327	53663	0.65%	0.032%
11	4.805	4.796	4.822	VV	543	6717	0.08%	0.004%
12	4.839	4.822	4.857	VV	879	11339	0.14%	0.007%
13	4.871	4.857	4.894	VV	1329	14995	0.18%	0.009%
14	4.908	4.894	4.923	VV	424	5619	0.07%	0.003%
15	4.947	4.923	4.961	VV	580	9710	0.12%	0.006%
16	4.972	4.961	4.987	VV	512	6936	0.08%	0.004%
17	5.026	4.987	5.060	VV	1344	26734	0.32%	0.016%
18	5.082	5.060	5.138	VV	1437	21733	0.26%	0.013%
19	5.163	5.138	5.191	VV	1335	20934	0.25%	0.013%
20	5.204	5.191	5.219	VV	566	8091	0.10%	0.005%
21	5.229	5.219	5.249	VV	493	6358	0.08%	0.004%
22	5.289	5.249	5.323	VV	4414	79958	0.97%	0.048%
23	5.351	5.323	5.357	VV	1799	21682	0.26%	0.013%
24	5.373	5.357	5.406	VV	15245	163633	1.98%	0.098%
25	5.427	5.406	5.454	VV	2560	35723	0.43%	0.021%

rteres								
26	5.474	5.454	5.489	VV	816	15325	0.19%	0.009%
27	5.495	5.489	5.509	VV	640	6924	0.08%	0.004%
28	5.527	5.509	5.574	VV	2705	40842	0.49%	0.025%
29	5.597	5.574	5.641	VV	1166	24448	0.30%	0.015%
30	5.657	5.641	5.679	VV	1591	22914	0.28%	0.014%
31	5.688	5.679	5.710	VV	914	10673	0.13%	0.006%
32	5.725	5.710	5.746	VV	952	12517	0.15%	0.008%
33	5.773	5.746	5.792	VV	1808	23044	0.28%	0.014%
34	5.805	5.792	5.814	VV	438	4655	0.06%	0.003%
35	5.829	5.814	5.846	VV	537	7811	0.09%	0.005%
36	5.873	5.846	5.887	VV	616	11094	0.13%	0.007%
37	5.893	5.887	5.909	VV	522	6024	0.07%	0.004%
38	5.920	5.909	5.940	VV	453	6179	0.07%	0.004%
39	5.950	5.940	5.967	VV	280	3517	0.04%	0.002%
40	5.998	5.967	6.011	VV	487	9162	0.11%	0.006%
41	6.020	6.011	6.030	VV	230	2265	0.03%	0.001%
42	6.041	6.030	6.065	VV	343	4576	0.06%	0.003%
43	6.078	6.065	6.107	VV	706	9894	0.12%	0.006%
44	6.123	6.107	6.141	VV	384	5014	0.06%	0.003%
45	6.155	6.141	6.173	VV	265	4128	0.05%	0.002%
46	6.195	6.173	6.234	VV	838	14694	0.18%	0.009%
47	6.240	6.234	6.252	VV	230	1710	0.02%	0.001%
48	6.298	6.252	6.344	VV	758292	7459677	90.17%	4.482%
49	6.349	6.344	6.387	VV	2737	49798	0.60%	0.030%
50	6.405	6.387	6.436	VV	1659	32676	0.39%	0.020%
51	6.440	6.436	6.457	VV	725	8246	0.10%	0.005%
52	6.472	6.457	6.502	VV	832	16809	0.20%	0.010%
53	6.541	6.502	6.573	VV	1727	35035	0.42%	0.021%
54	6.592	6.573	6.610	VV	1154	15905	0.19%	0.010%
55	6.625	6.610	6.639	VV	1106	12680	0.15%	0.008%
56	6.661	6.639	6.708	VV	885	18593	0.22%	0.011%
57	6.720	6.708	6.732	VV	343	3603	0.04%	0.002%
58	6.762	6.732	6.792	VV	59090	599837	7.25%	0.360%
59	6.819	6.792	6.831	VV	669	11922	0.14%	0.007%
60	6.850	6.831	6.871	VV	772	11912	0.14%	0.007%
61	6.884	6.871	6.894	VV	710	7369	0.09%	0.004%
62	6.915	6.894	6.961	VV	2728	47645	0.58%	0.029%
63	6.982	6.961	7.004	VV	1734	25999	0.31%	0.016%
64	7.019	7.004	7.036	VV	1305	17013	0.21%	0.010%
65	7.054	7.036	7.076	VV	2726	32823	0.40%	0.020%
66	7.081	7.076	7.126	VV	408	5080	0.06%	0.003%
67	7.137	7.126	7.150	VV	151	1389	0.02%	0.001%
68	7.167	7.150	7.173	VV	125	1026	0.01%	0.001%
69	7.194	7.173	7.230	VV	2856	41763	0.50%	0.025%

				rteres				
70	7.246	7.230	7.264	VV	3551	40454	0.49%	0.024%
71	7.298	7.264	7.312	VV	14804	165192	2.00%	0.099%
72	7.323	7.312	7.359	VV	11041	123710	1.50%	0.074%
73	7.399	7.359	7.456	VV	717629	7226324	87.35%	4.342%
74	7.466	7.456	7.501	VV	2793	47823	0.58%	0.029%
75	7.533	7.501	7.551	VV	3075	48090	0.58%	0.029%
76	7.569	7.551	7.584	VV	4014	49451	0.60%	0.030%
77	7.597	7.584	7.611	VV	2923	36329	0.44%	0.022%
78	7.625	7.611	7.643	VV	2290	31699	0.38%	0.019%
79	7.648	7.643	7.661	VV	1145	11101	0.13%	0.007%
80	7.675	7.661	7.690	VV	1944	23074	0.28%	0.014%
81	7.708	7.690	7.727	VV	1563	23216	0.28%	0.014%
82	7.767	7.727	7.791	VV	6050	82470	1.00%	0.050%
83	7.812	7.791	7.852	VV	5027	73362	0.89%	0.044%
84	7.883	7.852	7.911	VV	1936	35234	0.43%	0.021%
85	7.936	7.911	7.957	VV	839	17867	0.22%	0.011%
86	7.978	7.957	7.992	VV	1573	20759	0.25%	0.012%
87	8.027	7.992	8.108	VV	623189	6241362	75.44%	3.750%
88	8.127	8.108	8.169	VV	2102	53061	0.64%	0.032%
89	8.175	8.169	8.187	VV	894	8885	0.11%	0.005%
90	8.208	8.187	8.241	VV	1638	32960	0.40%	0.020%
91	8.246	8.241	8.261	VV	570	6268	0.08%	0.004%
92	8.288	8.261	8.332	VV	1050	26562	0.32%	0.016%
93	8.343	8.332	8.355	VV	528	5776	0.07%	0.003%
94	8.376	8.355	8.404	VV	1393	22178	0.27%	0.013%
95	8.412	8.404	8.429	VV	577	7253	0.09%	0.004%
96	8.437	8.429	8.442	VV	477	3101	0.04%	0.002%
97	8.451	8.442	8.464	VV	504	5487	0.07%	0.003%
98	8.501	8.464	8.517	VV	863	19636	0.24%	0.012%
99	8.537	8.517	8.566	VV	1147	22984	0.28%	0.014%
100	8.596	8.566	8.644	VV	58330	614699	7.43%	0.369%
101	8.654	8.644	8.671	VV	386	4688	0.06%	0.003%
102	8.706	8.671	8.776	VV	760953	8024222	97.00%	4.822%
103	8.792	8.776	8.817	VV	1399	26297	0.32%	0.016%
104	8.834	8.817	8.869	VV	1047	21968	0.27%	0.013%
105	8.903	8.869	8.945	VV	363588	3773915	45.62%	2.268%
106	8.954	8.945	8.972	VV	3417	46219	0.56%	0.028%
107	9.006	8.972	9.057	VV	769932	8125639	98.22%	4.882%
108	9.062	9.057	9.093	VV	2498	40381	0.49%	0.024%
109	9.113	9.093	9.187	VV	2971	88729	1.07%	0.053%
110	9.198	9.187	9.214	VV	776	10610	0.13%	0.006%
111	9.227	9.214	9.233	VV	614	6335	0.08%	0.004%
112	9.250	9.233	9.264	VV	800	12801	0.15%	0.008%

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113	9.277	9.264	9.295	VV	1269	17744	0.21%	0.011%
114	9.324	9.295	9.350	VV	62517	642825	7.77%	0.386%
115	9.361	9.350	9.411	VV	1651	43721	0.53%	0.026%
116	9.440	9.411	9.469	VV	2927	51995	0.63%	0.031%
117	9.472	9.469	9.492	VV	705	7077	0.09%	0.004%
118	9.511	9.492	9.546	VV	868	15944	0.19%	0.010%
119	9.561	9.546	9.583	VV	602	8732	0.11%	0.005%
120	9.605	9.583	9.634	VV	1267	26914	0.33%	0.016%
121	9.644	9.634	9.657	VV	971	11926	0.14%	0.007%
122	9.669	9.657	9.681	VV	980	12594	0.15%	0.008%
123	9.700	9.681	9.745	VV	1289	34016	0.41%	0.020%
124	9.796	9.745	9.853	VV	772155	8272779	100.00%	4.971%
125	9.867	9.853	9.902	VV	2356	49484	0.60%	0.030%
126	9.909	9.902	9.922	VV	1046	11578	0.14%	0.007%
127	9.943	9.922	9.967	VV	1264	26926	0.33%	0.016%
128	10.004	9.967	10.069	VV	10820	164579	1.99%	0.099%
129	10.086	10.069	10.106	VV	724	13229	0.16%	0.008%
130	10.121	10.106	10.158	VV	777	18048	0.22%	0.011%
131	10.203	10.158	10.257	VV	56510	632145	7.64%	0.380%
132	10.300	10.257	10.351	VV	876	27895	0.34%	0.017%
133	10.374	10.351	10.400	VV	593	12070	0.15%	0.007%
134	10.408	10.400	10.418	VV	308	2752	0.03%	0.002%
135	10.430	10.418	10.463	VV	386	6881	0.08%	0.004%
136	10.485	10.463	10.498	VV	687	9286	0.11%	0.006%
137	10.510	10.498	10.517	VV	554	5524	0.07%	0.003%
138	10.534	10.517	10.544	VV	601	8728	0.11%	0.005%
139	10.568	10.544	10.587	VV	1337	22319	0.27%	0.013%
140	10.599	10.587	10.618	VV	782	11425	0.14%	0.007%
141	10.636	10.618	10.656	VV	691	11435	0.14%	0.007%
142	10.675	10.656	10.702	VV	467	9482	0.11%	0.006%
143	10.723	10.702	10.744	VV	820	14737	0.18%	0.009%
144	10.760	10.744	10.778	VV	545	8147	0.10%	0.005%
145	10.795	10.778	10.799	VV	580	5930	0.07%	0.004%
146	10.823	10.799	10.838	VV	598	13257	0.16%	0.008%
147	10.843	10.838	10.862	VV	582	6964	0.08%	0.004%
148	10.882	10.862	10.885	VV	606	6460	0.08%	0.004%
149	10.892	10.885	10.914	VV	636	8984	0.11%	0.005%
150	10.920	10.914	10.926	VV	488	3222	0.04%	0.002%
151	10.929	10.926	10.934	VV	436	2143	0.03%	0.001%
152	10.947	10.934	10.976	VV	712	14321	0.17%	0.009%
153	11.002	10.976	11.052	VV	5504	93445	1.13%	0.056%
154	11.077	11.052	11.124	VV	1706	36707	0.44%	0.022%
155	11.204	11.124	11.244	VV	745164	8173826	98.80%	4.911%

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156	11.280	11.244	11.346	VV	710127	8109529	98.03%	4.873%
157	11.355	11.346	11.390	VV	2338	48374	0.58%	0.029%
158	11.405	11.390	11.432	VV	1108	22754	0.28%	0.014%
159	11.449	11.432	11.465	VV	674	12003	0.15%	0.007%
160	11.496	11.465	11.559	VV	1907	53115	0.64%	0.032%
161	11.580	11.559	11.606	VV	1396	24051	0.29%	0.014%
162	11.649	11.606	11.712	VV	53882	643614	7.78%	0.387%
163	11.726	11.712	11.764	VV	597	14516	0.18%	0.009%
164	11.784	11.764	11.797	VV	493	7002	0.08%	0.004%
165	11.815	11.797	11.844	VV	557	10300	0.12%	0.006%
166	11.892	11.844	11.923	VV	503	15598	0.19%	0.009%
167	11.972	11.923	12.024	VV	664274	7419408	89.68%	4.458%
168	12.040	12.024	12.086	VV	1100	26338	0.32%	0.016%
169	12.113	12.086	12.122	VV	1805	27468	0.33%	0.017%
170	12.133	12.122	12.164	VV	1788	31462	0.38%	0.019%
171	12.176	12.164	12.204	VV	1056	16491	0.20%	0.010%
172	12.208	12.204	12.211	VV	362	1328	0.02%	0.001%
173	12.222	12.211	12.234	VV	478	6059	0.07%	0.004%
174	12.254	12.234	12.271	VV	762	13052	0.16%	0.008%
175	12.315	12.271	12.347	VV	1335	39026	0.47%	0.023%
176	12.373	12.347	12.395	VV	6369	85557	1.03%	0.051%
177	12.412	12.395	12.438	VV	2510	33802	0.41%	0.020%
178	12.456	12.438	12.468	VV	547	7815	0.09%	0.005%
179	12.480	12.468	12.505	VV	631	9939	0.12%	0.006%
180	12.544	12.505	12.557	VV	1271	25241	0.31%	0.015%
181	12.570	12.557	12.636	VV	2219	54849	0.66%	0.033%
182	12.648	12.636	12.671	VV	755	11837	0.14%	0.007%
183	12.698	12.671	12.714	VV	587	11673	0.14%	0.007%
184	12.749	12.714	12.764	VV	743	17545	0.21%	0.011%
185	12.823	12.764	12.852	VV	7112	115001	1.39%	0.069%
186	12.860	12.852	12.878	VV	435	5554	0.07%	0.003%
187	12.903	12.878	12.929	VV	1667	22420	0.27%	0.013%
188	12.962	12.929	12.989	VV	57180	693372	8.38%	0.417%
189	13.028	12.989	13.174	VV	673601	7958059	96.20%	4.782%
190	13.207	13.174	13.230	VV	5556	76133	0.92%	0.046%
191	13.237	13.230	13.272	VV	1088	18859	0.23%	0.011%
192	13.329	13.272	13.354	VV	660485	7886077	95.33%	4.739%
193	13.375	13.354	13.382	VV	6154	80181	0.97%	0.048%
194	13.408	13.382	13.485	VV	108163	1353486	16.36%	0.813%
195	13.503	13.485	13.537	VV	825	19124	0.23%	0.011%
196	13.576	13.537	13.610	VV	48592	628601	7.60%	0.378%
197	13.629	13.610	13.676	VV	3913	63089	0.76%	0.038%
198	13.696	13.676	13.722	VV	682	15142	0.18%	0.009%
199	13.728	13.722	13.735	VV	479	3226	0.04%	0.002%

200	13.776	13.735	13.801	VV	795	24582	0.30%	0.015%
201	13.813	13.801	13.827	VV	1262	17491	0.21%	0.011%
202	13.833	13.827	13.894	VV	1227	37614	0.45%	0.023%
203	13.921	13.894	13.942	VV	729	16296	0.20%	0.010%
204	13.960	13.942	13.966	VV	565	7198	0.09%	0.004%
205	13.982	13.966	13.993	VV	599	9053	0.11%	0.005%
206	14.026	13.993	14.056	VV	1103	24546	0.30%	0.015%
207	14.071	14.056	14.087	VV	470	7359	0.09%	0.004%
208	14.113	14.087	14.133	VV	1495	25501	0.31%	0.015%
209	14.163	14.133	14.211	VV	48096	615182	7.44%	0.370%
210	14.226	14.211	14.248	VV	384	6262	0.08%	0.004%
211	14.261	14.248	14.275	VV	178	1983	0.02%	0.001%
212	14.284	14.275	14.311	VV	184	1960	0.02%	0.001%
213	14.331	14.311	14.357	PV	139	1925	0.02%	0.001%
214	14.391	14.357	14.426	VV	336	7994	0.10%	0.005%
215	14.429	14.426	14.442	VV	198	1216	0.01%	0.001%
216	14.454	14.442	14.481	VV	237	3585	0.04%	0.002%
217	14.504	14.481	14.525	VV	321	4919	0.06%	0.003%
218	14.559	14.537	14.565	VV	170	1798	0.02%	0.001%
219	14.602	14.565	14.639	VV	13775	183933	2.22%	0.111%
220	14.646	14.639	14.652	VV	399	3108	0.04%	0.002%
221	14.658	14.652	14.682	VV	443	5848	0.07%	0.004%
222	14.692	14.682	14.699	VV	278	1959	0.02%	0.001%
223	14.706	14.699	14.711	VV	218	1250	0.02%	0.001%
224	14.727	14.711	14.753	VV	426	7395	0.09%	0.004%
225	14.789	14.753	14.801	VV	574	8089	0.10%	0.005%
226	14.822	14.801	14.850	VV	441	9200	0.11%	0.006%
227	14.869	14.850	14.905	VV	368	10237	0.12%	0.006%
228	14.937	14.905	14.962	VV	472	10372	0.13%	0.006%
229	14.967	14.962	14.974	VV	250	1488	0.02%	0.001%
230	14.989	14.974	15.006	VV	294	4261	0.05%	0.003%
231	15.042	15.006	15.064	VV	516	12112	0.15%	0.007%
232	15.079	15.064	15.100	VV	440	7154	0.09%	0.004%
233	15.111	15.100	15.142	VV	309	4542	0.05%	0.003%
234	15.213	15.163	15.231	PV	528581	7409294	89.56%	4.452%
235	15.258	15.231	15.340	VV	634262	8093457	97.83%	4.863%
236	15.350	15.340	15.401	VV	1035	24290	0.29%	0.015%
237	15.411	15.401	15.416	VV	448	3526	0.04%	0.002%
238	15.441	15.416	15.464	VV	1125	20782	0.25%	0.012%
239	15.469	15.464	15.497	VV	522	7628	0.09%	0.005%
240	15.505	15.497	15.528	VV	322	5160	0.06%	0.003%
241	15.533	15.528	15.554	VV	237	2802	0.03%	0.002%
242	15.576	15.561	15.599	VV	342	4897	0.06%	0.003%

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243	15.634	15.599	15.668	VV	1934	31118	0.38%	0.019%
244	15.687	15.668	15.731	VV	579	12866	0.16%	0.008%
245	15.742	15.731	15.751	VV	296	2942	0.04%	0.002%
246	15.757	15.751	15.764	VV	282	1995	0.02%	0.001%
247	15.809	15.764	15.862	VV	11043	154868	1.87%	0.093%
248	15.878	15.862	15.883	VV	288	3008	0.04%	0.002%
249	15.916	15.883	15.956	VV	431	15069	0.18%	0.009%
250	15.998	15.956	16.030	VV	648	20249	0.24%	0.012%
251	16.043	16.030	16.047	VV	334	2933	0.04%	0.002%
252	16.055	16.047	16.080	VV	304	5454	0.07%	0.003%
253	16.097	16.080	16.105	VV	357	4072	0.05%	0.002%
254	16.113	16.105	16.131	VV	449	5833	0.07%	0.004%
255	16.159	16.131	16.186	VV	541	13435	0.16%	0.008%
256	16.190	16.186	16.195	VV	286	1288	0.02%	0.001%
257	16.223	16.195	16.229	VV	273	4764	0.06%	0.003%
258	16.254	16.229	16.263	VV	592	8412	0.10%	0.005%
259	16.294	16.263	16.330	VV	42261	559515	6.76%	0.336%
260	16.345	16.330	16.390	VV	386	7941	0.10%	0.005%
261	16.406	16.390	16.422	VV	212	2977	0.04%	0.002%
262	16.436	16.422	16.454	VV	200	2621	0.03%	0.002%
263	16.487	16.454	16.513	VV	758	12967	0.16%	0.008%
264	16.539	16.513	16.559	VV	230	3606	0.04%	0.002%
265	16.586	16.568	16.591	VV	139	1084	0.01%	0.001%
266	16.604	16.597	16.658	VV	128	3200	0.04%	0.002%
267	16.675	16.669	16.695	VV	188	1004	0.01%	0.001%
268	16.774	16.720	16.789	VV	442693	7038128	85.08%	4.229%
269	16.810	16.789	16.840	VV	581915	7041078	85.11%	4.231%
270	16.860	16.840	16.904	VV	2990	60868	0.74%	0.037%
271	16.908	16.904	16.911	VV	631	2757	0.03%	0.002%
272	16.916	16.911	16.928	VV	630	5691	0.07%	0.003%
273	16.932	16.928	16.941	VV	555	4297	0.05%	0.003%
274	16.946	16.941	16.957	VV	528	5084	0.06%	0.003%
275	16.968	16.957	16.992	VV	572	10812	0.13%	0.006%
276	17.018	16.992	17.059	VV	2328	40153	0.49%	0.024%
277	17.074	17.059	17.097	VV	426	8266	0.10%	0.005%
278	17.156	17.097	17.211	VV	487471	6792452	82.11%	4.081%
279	17.245	17.211	17.278	VV	41142	572176	6.92%	0.344%
280	17.293	17.278	17.324	VV	1420	21942	0.27%	0.013%
281	17.326	17.324	17.339	VV	276	1753	0.02%	0.001%
282	17.348	17.339	17.380	VV	236	4290	0.05%	0.003%
283	17.396	17.389	17.404	VV	145	1137	0.01%	0.001%
284	17.417	17.404	17.422	VV	293	2412	0.03%	0.001%
285	17.426	17.422	17.441	VV	262	1850	0.02%	0.001%

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286	17.447	17.441	17.476	VV	229	2837	0.03%	0.002%	
287	17.519	17.493	17.534	PV	373	5626	0.07%	0.003%	
288	17.570	17.534	17.599	VV	379	8460	0.10%	0.005%	
289	17.657	17.599	17.676	PV	565	9970	0.12%	0.006%	
290	17.698	17.676	17.741	VV	1038	15901	0.19%	0.010%	
291	17.767	17.741	17.773	PV	211	1683	0.02%	0.001%	
292	17.801	17.773	17.829	VV	396	8074	0.10%	0.005%	
293	17.844	17.829	17.849	VV	187	1776	0.02%	0.001%	
294	17.859	17.849	17.864	VV	175	1248	0.02%	0.001%	
295	17.913	17.864	17.943	VV	340	9318	0.11%	0.006%	
296	17.980	17.943	17.986	VV	329	5387	0.07%	0.003%	
297	18.028	17.986	18.045	VV	539	13393	0.16%	0.008%	
298	18.062	18.045	18.078	VV	744	10034	0.12%	0.006%	
299	18.137	18.078	18.184	VV	37708	535610	6.47%	0.322%	
300	18.192	18.184	18.207	VV	158	1606	0.02%	0.001%	
301	18.228	18.207	18.239	VV	205	2498	0.03%	0.002%	
302	18.248	18.239	18.258	VV	166	1364	0.02%	0.001%	
303	18.312	18.258	18.362	VV	864	19375	0.23%	0.012%	
304	18.417	18.384	18.451	PV	390	7291	0.09%	0.004%	
305	18.534	18.451	18.547	PV	465150	7238439	87.50%	4.349%	
306	18.572	18.547	18.671	VV	499407	6743815	81.52%	4.052%	
307	18.676	18.671	18.734	VV	747	14066	0.17%	0.008%	
308	18.792	18.734	18.851	PBA	430168	6517391	78.78%	3.916%	
Sum of corrected areas:						166423912			

Aromatic EPH 092425.M Tue Sep 30 01:32:31 2025

Manual Integration Report

Sequence:

FE092425AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3168-03	FE055979.D	1-chlorooctadecane (SURR)	yogesh	9/25/2025 1:08:41 PM	mohammad	9/26/2025 4:25:44	Peak Integrated by Software
Q3168-03	FE055979.D	ortho-Terphenyl (SURR)	yogesh	9/25/2025 1:08:41 PM	mohammad	9/26/2025 4:25:44	Peak Integrated by Software

Manual Integration Report

Sequence:	FE092925AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE056035.D	n-Octatriacontane (C38)	yogesh	9/29/2025 12:58:42 PM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3212-01DL	FE056042.D	ortho-Terphenyl (SURR)	yogesh	9/29/2025 4:40:13 PM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056045.D	n-Octatriacontane (C38)	yogesh	9/30/2025 7:44:43 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056045.D	n-Tetracontane (C40)	yogesh	9/30/2025 7:44:43 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3206-01	FE056048.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:44 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3206-02	FE056049.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:46 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3206-02	FE056049.D	ortho-Terphenyl (SURR)	yogesh	9/30/2025 7:44:46 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056059.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:45:02 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3221-01	FE056062.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:49 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-01	FE056066.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:51 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-06	FE056068.D	1-chlorooctadecane (SURR)	yogesh	9/30/2025 7:44:53 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-13	FE056071.D	ortho-Terphenyl (SURR)	yogesh	9/30/2025 11:00:46 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
Q3231-14	FE056072.D	ortho-Terphenyl (SURR)	yogesh	9/30/2025 11:00:48 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software

Manual Integration Report

Sequence:	FE092925AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169879BL	FE056073.D	1-chlorooctadecane (SURRE)	yogesh	9/30/2025 11:00:50 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
PB169879BS	FE056074.D	n-Octatriacontane (C38)	yogesh	9/30/2025 11:00:51 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056077.D	n-Hexatriacontane (C36)	yogesh	9/30/2025 11:00:53 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE056077.D	n-Octatriacontane (C38)	yogesh	9/30/2025 11:00:53 AM	mohammad	10/1/2025 1:40:41	Peak Integrated by Software



Manual Integration Report

Sequence:	FF092425AR	Instrument	FID_f
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	FF092925AR	Instrument	FID_f
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method FE092425AL
STD.NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM	PP24771		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774		

Sr#	SampleID	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055960.D	24 Sep 2025 08:06	YP\AJ	Ok
2	I.BLK	FE055961.D	24 Sep 2025 08:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE055962.D	24 Sep 2025 09:07	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE055963.D	24 Sep 2025 09:37	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE055964.D	24 Sep 2025 10:07	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE055965.D	24 Sep 2025 10:38	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE055966.D	24 Sep 2025 11:08	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE055967.D	24 Sep 2025 11:39	YP\AJ	Ok
9	I.BLK	FE055968.D	24 Sep 2025 12:09	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE055969.D	24 Sep 2025 12:40	YP\AJ	Ok
11	PB169809BL	FE055970.D	24 Sep 2025 14:27	YP\AJ	Ok
12	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
13	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method FE092425AL
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			

14	Q3159-01	FE055973.D	24 Sep 2025 15:59	YPIAJ	Ok
15	Q3159-01D	FE055974.D	24 Sep 2025 16:29	YPIAJ	Ok
16	Q3159-01MS	FE055975.D	24 Sep 2025 17:00	YPIAJ	Ok
17	Q3159-01MSD	FE055976.D	24 Sep 2025 17:31	YPIAJ	Ok
18	Q3159-03	FE055977.D	24 Sep 2025 18:01	YPIAJ	Ok
19	Q3167-01	FE055978.D	24 Sep 2025 18:32	YPIAJ	Dilution
20	Q3168-03	FE055979.D	24 Sep 2025 19:03	YPIAJ	Dilution
21	I.BLK	FE055980.D	24 Sep 2025 20:04	YPIAJ	Ok
22	20 PPM ALIPHATIC HC STD	FE055981.D	24 Sep 2025 20:35	YPIAJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM
SubDirectory	FE092925AL	HP Acquire Method	HP Processing Method FE092425AL
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	FE056033.D	29 Sep 2025 08:16	YPIAJ	Ok
2	I.BLK	FE056034.D	29 Sep 2025 08:47	YPIAJ	Ok
3	20 PPM ALIPHATIC HC STD	FE056035.D	29 Sep 2025 09:17	YPIAJ	Ok,M
4	Q3209-01	FE056036.D	29 Sep 2025 09:47	YPIAJ	Dilution
5	Q3209-02	FE056037.D	29 Sep 2025 10:18	YPIAJ	Dilution
6	Q3212-01	FE056038.D	29 Sep 2025 10:48	YPIAJ	Dilution
7	Q3212-02	FE056039.D	29 Sep 2025 11:18	YPIAJ	Dilution
8	Q3209-01DL	FE056040.D	29 Sep 2025 11:49	YPIAJ	Ok
9	Q3209-02DL	FE056041.D	29 Sep 2025 12:19	YPIAJ	Ok
10	Q3212-01DL	FE056042.D	29 Sep 2025 12:49	YPIAJ	Ok,M
11	Q3212-02DL	FE056043.D	29 Sep 2025 13:20	YPIAJ	Ok
12	I.BLK	FE056044.D	29 Sep 2025 14:21	YPIAJ	Ok
13	20 PPM ALIPHATIC HC STD	FE056045.D	29 Sep 2025 14:51	YPIAJ	Ok,M
14	Q3200-01	FE056046.D	29 Sep 2025 15:22	YPIAJ	Ok
15	Q3200-02	FE056047.D	29 Sep 2025 15:52	YPIAJ	Ok
16	Q3206-01	FE056048.D	29 Sep 2025 16:23	YPIAJ	Ok,M
17	Q3206-02	FE056049.D	29 Sep 2025 16:53	YPIAJ	Dilution
18	Q3208-03	FE056050.D	29 Sep 2025 17:23	YPIAJ	Dilution
19	Q3208-04	FE056051.D	29 Sep 2025 17:54	YPIAJ	Dilution
20	Q3177-01	FE056052.D	29 Sep 2025 18:25	YPIAJ	Not Ok
21	Q3177-02	FE056053.D	29 Sep 2025 18:55	YPIAJ	Not Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM
SubDirectory	FE092925AL	HP Acquire Method	HP Processing Method FE092425AL
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			

22	Q3177-03	FE056054.D	29 Sep 2025 19:26	YP\AJ	Not Ok
23	Q3179-01	FE056055.D	29 Sep 2025 19:56	YP\AJ	Ok
24	Q3179-02MS	FE056056.D	29 Sep 2025 20:27	YP\AJ	Ok
25	Q3179-02MS	FE056056.D	29 Sep 2025 20:27	YP\AJ	Ok
26	Q3179-03MSD	FE056057.D	29 Sep 2025 20:57	YP\AJ	Ok
27	Q3179-03MSD	FE056057.D	29 Sep 2025 20:57	YP\AJ	Ok
28	I.BLK	FE056058.D	29 Sep 2025 21:58	YP\AJ	Ok
29	20 PPM ALIPHATIC HC STD	FE056059.D	29 Sep 2025 22:59	YP\AJ	Ok,M
30	Q3220-01	FE056060.D	29 Sep 2025 23:30	YP\AJ	Ok
31	Q3220-02	FE056061.D	30 Sep 2025 00:01	YP\AJ	Ok
32	Q3221-01	FE056062.D	30 Sep 2025 00:31	YP\AJ	Dilution
33	Q3221-02	FE056063.D	30 Sep 2025 01:02	YP\AJ	Dilution
34	Q3222-01	FE056064.D	30 Sep 2025 01:32	YP\AJ	Dilution
35	Q3222-02	FE056065.D	30 Sep 2025 02:02	YP\AJ	Dilution
36	Q3231-01	FE056066.D	30 Sep 2025 02:33	YP\AJ	Dilution
37	Q3231-02	FE056067.D	30 Sep 2025 03:03	YP\AJ	Ok
38	Q3231-06	FE056068.D	30 Sep 2025 03:33	YP\AJ	Ok,M
39	Q3231-09	FE056069.D	30 Sep 2025 04:04	YP\AJ	Dilution
40	Q3231-10	FE056070.D	30 Sep 2025 04:34	YP\AJ	Dilution
41	Q3231-13	FE056071.D	30 Sep 2025 05:05	YP\AJ	Ok,M
42	Q3231-14	FE056072.D	30 Sep 2025 05:35	YP\AJ	Ok,M
43	PB169879BL	FE056073.D	30 Sep 2025 06:05	YP\AJ	Ok,M
44	PB169879BS	FE056074.D	30 Sep 2025 06:36	YP\AJ	Ok,M

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM
SubDirectory	FE092925AL	HP Acquire Method	HP Processing Method FE092425AL
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			

45	PB169879TB	FE056075.D	30 Sep 2025 07:06	YP\AJ	Ok
46	I.BLK	FE056076.D	30 Sep 2025 07:36	YP\AJ	Ok
47	20 PPM ALIPHATIC HC STD	FE056077.D	30 Sep 2025 08:07	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch 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

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM
SubDirectory	FF092925AR	HP Acquire Method	HP Processing Method FF092425AR
STD.NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505		
CCC Internal Standard/PEM	PP24503		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24501,PP24506		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF016467.D	29 Sep 2025 08:51	YPIAJ	Ok
2	I.BLK	FF016468.D	29 Sep 2025 12:09	YPIAJ	Ok
3	20 PPM AROMATIC HC STD	FF016469.D	29 Sep 2025 14:07	YPIAJ	Ok
4	PB169879BL	FF016470.D	29 Sep 2025 16:35	YPIAJ	Ok
5	PB169879BS	FF016471.D	29 Sep 2025 17:05	YPIAJ	Ok
6	PB169879TB	FF016472.D	29 Sep 2025 17:35	YPIAJ	Ok
7	Q3177-01	FF016473.D	29 Sep 2025 18:04	YPIAJ	ReRun
8	Q3177-02	FF016474.D	29 Sep 2025 18:34	YPIAJ	Ok
9	Q3177-03	FF016475.D	29 Sep 2025 19:04	YPIAJ	Ok
10	Q3179-01	FF016476.D	29 Sep 2025 19:33	YPIAJ	Ok
11	Q3179-02MS	FF016477.D	29 Sep 2025 20:03	YPIAJ	Ok
12	Q3179-02MS	FF016477.D	29 Sep 2025 20:03	YPIAJ	Ok
13	Q3179-03MSD	FF016478.D	29 Sep 2025 20:33	YPIAJ	Ok
14	Q3179-03MSD	FF016478.D	29 Sep 2025 20:33	YPIAJ	Ok
15	I.BLK	FF016479.D	29 Sep 2025 21:03	YPIAJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM
SubDirectory	FF092925AR	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			

16	20 PPM AROMATIC HC STD	FF016480.D	29 Sep 2025 22:02	YPIAJ	Ok
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M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method FE092425AL

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	FE055960.D	24 Sep 2025 08:06		YP\AJ	Ok
2	I.BLK	I.BLK	FE055961.D	24 Sep 2025 08:36		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE055962.D	24 Sep 2025 09:07		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE055963.D	24 Sep 2025 09:37		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055964.D	24 Sep 2025 10:07		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE055965.D	24 Sep 2025 10:38		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE055966.D	24 Sep 2025 11:08		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055967.D	24 Sep 2025 11:39		YP\AJ	Ok
9	I.BLK	I.BLK	FE055968.D	24 Sep 2025 12:09		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055969.D	24 Sep 2025 12:40		YP\AJ	Ok
11	PB169809BL	PB169809BL	FE055970.D	24 Sep 2025 14:27		YP\AJ	Ok
12	PB169809BS	PB169809BLBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method
			FE092425AL

STD.NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard	PP24769,PP24774
MS/MSD Standard LCS Standard	

13	PB169809BSD	PB169809BLBSBSBSB	FE055972.D	24 Sep 2025 15:28		YPAJ	Ok
14	Q3159-01	VNJ-245	FE055973.D	24 Sep 2025 15:59		YPAJ	Ok
15	Q3159-01D	VNJ-245D	FE055974.D	24 Sep 2025 16:29		YPAJ	Ok
16	Q3159-01MS	VNJ-245MS	FE055975.D	24 Sep 2025 17:00	FE055973.D	YPAJ	Ok
17	Q3159-01MSD	VNJ-245MSD	FE055976.D	24 Sep 2025 17:31	FE055973.D!FE055975.D	YPAJ	Ok
18	Q3159-03	VNJ-255	FE055977.D	24 Sep 2025 18:01		YPAJ	Ok
19	Q3167-01	RT4784	FE055978.D	24 Sep 2025 18:32	Need 2X	YPAJ	Dilution
20	Q3168-03	ARS20-0010-Oily Soil-	FE055979.D	24 Sep 2025 19:03	Need 10X	YPAJ	Dilution
21	I.BLK	I.BLK	FE055980.D	24 Sep 2025 20:04		YPAJ	Ok
22	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055981.D	24 Sep 2025 20:35		YPAJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM		
SubDirectory	FE092925AL	HP Acquire Method	HP Processing Method	FE092425AL	

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	FE056033.D	29 Sep 2025 08:16		YP\AJ	Ok
2	I.BLK	I.BLK	FE056034.D	29 Sep 2025 08:47		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056035.D	29 Sep 2025 09:17		YP\AJ	Ok,M
4	Q3209-01	PL-02-092525	FE056036.D	29 Sep 2025 09:47	need 10x dilution	YP\AJ	Dilution
5	Q3209-02	PL-02-092525-E2	FE056037.D	29 Sep 2025 10:18	need 5x dilution	YP\AJ	Dilution
6	Q3212-01	EO-03-092525	FE056038.D	29 Sep 2025 10:48	need 10x dilution	YP\AJ	Dilution
7	Q3212-02	EO-03-092525-E2	FE056039.D	29 Sep 2025 11:18	need 10x dilution	YP\AJ	Dilution
8	Q3209-01DL	PL-02-092525DL	FE056040.D	29 Sep 2025 11:49		YP\AJ	Ok
9	Q3209-02DL	PL-02-092525-E2DL	FE056041.D	29 Sep 2025 12:19		YP\AJ	Ok
10	Q3212-01DL	EO-03-092525DL	FE056042.D	29 Sep 2025 12:49		YP\AJ	Ok,M
11	Q3212-02DL	EO-03-092525-E2DL	FE056043.D	29 Sep 2025 13:20		YP\AJ	Ok
12	I.BLK	I.BLK	FE056044.D	29 Sep 2025 14:21		YP\AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056045.D	29 Sep 2025 14:51		YP\AJ	Ok,M
14	Q3200-01	ETGI-367	FE056046.D	29 Sep 2025 15:22		YP\AJ	Ok
15	Q3200-02	ETGI-367	FE056047.D	29 Sep 2025 15:52		YP\AJ	Ok
16	Q3206-01	TR-06-092525	FE056048.D	29 Sep 2025 16:23		YP\AJ	Ok,M
17	Q3206-02	TR-06-092525-E2	FE056049.D	29 Sep 2025 16:53	Need 5X	YP\AJ	Dilution
18	Q3208-03	SU-ESM-01	FE056050.D	29 Sep 2025 17:23	Need 5X	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM
SubDirectory	FE092925AL	HP Acquire Method	HP Processing Method
			FE092425AL

STD.NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

19	Q3208-04	SU-ESM-02	FE056051.D	29 Sep 2025 17:54	Need 5X	YPIAJ	Dilution
20	Q3177-01	Q3177-01	FE056052.D	29 Sep 2025 18:25	Possible carryover	YPIAJ	Not Ok
21	Q3177-02	Q3177-02	FE056053.D	29 Sep 2025 18:55	Possible carryover	YPIAJ	Not Ok
22	Q3177-03	Q3177-03	FE056054.D	29 Sep 2025 19:26	Possible carryover	YPIAJ	Not Ok
23	Q3179-01	EME-TS14-01	FE056055.D	29 Sep 2025 19:56		YPIAJ	Ok
24	Q3179-02MS	EME-TS14-01MS	FE056056.D	29 Sep 2025 20:27	FE056055.D	YPIAJ	Ok
25	Q3179-03MSD	EME-TS14-01MSD	FE056057.D	29 Sep 2025 20:57	FE056055.D!FE056056.D	YPIAJ	Ok
26	I.BLK	I.BLK	FE056058.D	29 Sep 2025 21:58		YPIAJ	Ok
27	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056059.D	29 Sep 2025 22:59		YPIAJ	Ok,M
28	Q3220-01	OR-03-092625	FE056060.D	29 Sep 2025 23:30		YPIAJ	Ok
29	Q3220-02	OR-03-092625-E2	FE056061.D	30 Sep 2025 00:01		YPIAJ	Ok
30	Q3221-01	HD-01-092625	FE056062.D	30 Sep 2025 00:31	Need 5X	YPIAJ	Dilution
31	Q3221-02	HD-01-092625-E2	FE056063.D	30 Sep 2025 01:02	Need 5X	YPIAJ	Dilution
32	Q3222-01	SU-03-092625	FE056064.D	30 Sep 2025 01:32	Need 5X	YPIAJ	Dilution
33	Q3222-02	SU-03-092625-E2	FE056065.D	30 Sep 2025 02:02	Need 5X	YPIAJ	Dilution
34	Q3231-01	WC-1	FE056066.D	30 Sep 2025 02:33	Need 2X	YPIAJ	Dilution
35	Q3231-02	WC-1-EPH	FE056067.D	30 Sep 2025 03:03		YPIAJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL

Review By	yogesh	Review On	9/29/2025 10:09:20 AM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:41 AM
SubDirectory	FE092925AL	HP Acquire Method	HP Processing Method FE092425AL

STD.NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

36	Q3231-06	WC-2-EPH	FE056068.D	30 Sep 2025 03:33		YPAJ	Ok,M
37	Q3231-09	WC-3	FE056069.D	30 Sep 2025 04:04	Need 2X	YPAJ	Dilution
38	Q3231-10	WC-3-EPH	FE056070.D	30 Sep 2025 04:34	Need 2X	YPAJ	Dilution
39	Q3231-13	WC-4	FE056071.D	30 Sep 2025 05:05		YPAJ	Ok,M
40	Q3231-14	WC-4-EPH	FE056072.D	30 Sep 2025 05:35		YPAJ	Ok,M
41	PB169879BL	PB169879BL	FE056073.D	30 Sep 2025 06:05		YPAJ	Ok,M
42	PB169879BS	PB169879BS	FE056074.D	30 Sep 2025 06:36		YPAJ	Ok,M
43	PB169879TB	PB169879BSTB	FE056075.D	30 Sep 2025 07:06		YPAJ	Ok
44	I.BLK	I.BLK	FE056076.D	30 Sep 2025 07:36		YPAJ	Ok
45	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056077.D	30 Sep 2025 08:07		YPAJ	Ok,M

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch 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		YPIAJ	Ok
2	I.BLK	I.BLK	FF016430.D	24 Sep 2025 13:30		YPIAJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF016431.D	24 Sep 2025 13:59		YPIAJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF016432.D	24 Sep 2025 14:29		YPIAJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016433.D	24 Sep 2025 14:59		YPIAJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF016434.D	24 Sep 2025 15:28		YPIAJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF016435.D	24 Sep 2025 15:58		YPIAJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016436.D	24 Sep 2025 16:28		YPIAJ	Ok
9	I.BLK	I.BLK	FF016437.D	24 Sep 2025 17:27		YPIAJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF016438.D	24 Sep 2025 17:57		YPIAJ	Ok

M : Manual Integration

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM
SubDirectory	FF092925AR	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	FF016467.D	29 Sep 2025 08:51		YP\AJ	Ok
2	I.BLK	I.BLK	FF016468.D	29 Sep 2025 12:09		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC H	FF016469.D	29 Sep 2025 14:07		YP\AJ	Ok
4	PB169879BL	PB169879BL	FF016470.D	29 Sep 2025 16:35		YP\AJ	Ok
5	PB169879BS	PB169879BS	FF016471.D	29 Sep 2025 17:05		YP\AJ	Ok
6	PB169879TB	PB169879BSTB	FF016472.D	29 Sep 2025 17:35		YP\AJ	Ok
7	Q3177-01	EME-TS12-01	FF016473.D	29 Sep 2025 18:04	Surrogate Fail	YP\AJ	ReRun
8	Q3177-02	EME-TS13-01	FF016474.D	29 Sep 2025 18:34		YP\AJ	Ok
99	Q3177-03	EME-TS14-02	FF016475.D	29 Sep 2025 19:04		YP\AJ	Ok
10	Q3179-01	EME-TS14-01	FF016476.D	29 Sep 2025 19:33		YP\AJ	Ok
11	Q3179-02MS	EME-TS14-01MS	FF016477.D	29 Sep 2025 20:03	FF016476.D	YP\AJ	Ok

Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR

Review By	yogesh	Review On	9/29/2025 3:49:57 PM		
Supervise By	mohammad	Supervise On	10/1/2025 1:40:54 AM		
SubDirectory	FF092925AR	HP Acquire Method	HP Processing Method	FF092425AR	

STD.NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24500,PP24502,PP24503,PP24504,PP24505
CCC Internal Standard/PEM	PP24503
ICV/I.BLK Surrogate Standard	PP24501,PP24506
MS/MSD Standard LCS Standard	

12	Q3179-03MSD	EME-TS14-01MSD	FF016478.D	29 Sep 2025 20:33	FF016476.D\FF016477.D	YP\AJ	Ok
13	I.BLK	I.BLK	FF016479.D	29 Sep 2025 21:03		YP\AJ	Ok
14	20 PPM AROMATIC HC	20 PPM AROMATIC H	CFF016480.D	29 Sep 2025 22:02		YP\AJ	Ok

M : Manual Integration

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : T-2

TCLP Filter ID : 40819719

Start Prep Date : 09/24/2025 Time : 14:30

End Prep Date : 09/25/2025 Time : 08:10

Combination Ratio : 20

ZHE Cleaning Batch : N/A 71

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : *JP*

Supervisor By : *12*

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	WP114530	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP114528
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP86978

Extraction Conformance/Non-Conformance Comments:

TUMBLER T-2 checked,30 rpm. Matrix spikes are added after filtration and before preservation.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/25/25 10:00	<i>JP</i> / TCY 120 cm	<i>SKJ.</i> RJ 1E-X
	Preparation Group	Analysis Group

met nity

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep. Pos
PB169818TB	LEB818	15	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q3177-01	EME-TS12-01	11	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q3177-02	EME-TS13-01	12	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3177-03	EME-TS14-02	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q3179-01	EME-TS14-01	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q3179-02	EME-TS14-01MS	14	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3179-03	EME-TS14-01MSD	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB169818TB	LEB818	N/A	N/A	N/A	N/A	N/A	N/A
Q3177-01	EME-TS12-01	N/A	N/A	N/A	N/A	100	N/A
Q3177-02	EME-TS13-01	N/A	N/A	N/A	N/A	100	N/A
Q3177-03	EME-TS14-02	N/A	N/A	N/A	N/A	100	N/A
Q3179-01	EME-TS14-01	N/A	N/A	N/A	N/A	100	N/A
Q3179-02	EME-TS14-01MS	N/A	N/A	N/A	N/A	100	N/A
Q3179-03	EME-TS14-01MSD	N/A	N/A	N/A	N/A	100	N/A

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB169818TB	LEB818	N/A	N/A	N/A	N/A	#1	4.24
Q3177-01	EME-TS12-01	N/A	N/A	N/A	N/A	#1	4.24
Q3177-02	EME-TS13-01	N/A	N/A	N/A	N/A	#1	4.24
Q3177-03	EME-TS14-02	N/A	N/A	N/A	N/A	#1	4.24
Q3179-01	EME-TS14-01	N/A	N/A	N/A	N/A	#1	4.24
Q3179-02	EME-TS14-01MS	N/A	N/A	N/A	N/A	#1	4.24
Q3179-03	EME-TS14-01MSD	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q3177

WorkList ID : 192051

Department : TCLP Extraction

Date : 09-24-2025 13:40:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3177-01	EME-TS12-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3177-02	EME-TS13-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3177-03	EME-TS14-02	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3179-01	EME-TS14-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312
Q3179-02	EME-TS14-01MS	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312
Q3179-03	EME-TS14-01MSD	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312

Date/Time 09/24/25 13:45
Raw Sample Received by: JB WDC
Raw Sample Relinquished by: JTCsm

Date/Time 09/24/25 16:00
Raw Sample Received by: JTCsm
Raw Sample Relinquished by: JB WDC

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 09/29/2025

Extraction Start Time : 08:30

Extraction End Date : 09/29/2025

Extraction End Time : 14:45

Concentration By: EH

Supervisor By : ritesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24918
Surrogate	1.0ML	100 PPM	PP24941
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
Methylene Chloride	N/A	E3973
Baked Na2SO4	N/A	EP2646
Hexane	N/A	E3974
6N HCL	N/A	EP2635
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

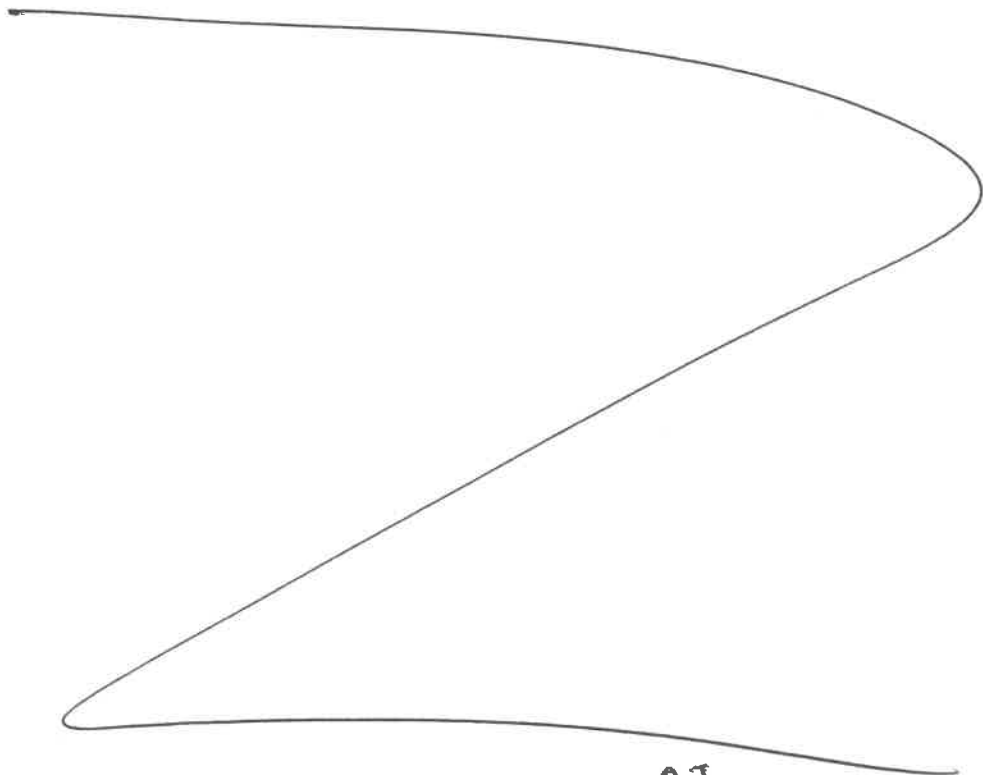
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/29/25	RJ C (Cell-1 ab)	Y-P-pestipus
14:50	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 09/29/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169879BL	PB169879BL	EPH	1000	<2	ritesh	Evelyn	2			SEP-1
PB169879BS	PB169879BS	EPH	1000	<2	ritesh	Evelyn	2			2
PB169879TB	PB169879TB	EPH	1000	<2	ritesh	Evelyn	2			3
Q3177-01	EME-TS12-01	EPH	1000	<2	ritesh	Evelyn	2	A		4
Q3177-02	EME-TS13-01	EPH	1000	<2	ritesh	Evelyn	2	A		5
Q3177-03	EME-TS14-02	EPH	1000	<2	ritesh	Evelyn	2	A		6
Q3179-01	EME-TS14-01	EPH	1000	<2	ritesh	Evelyn	2	A		7
Q3179-02	EME-TS14-01MS	EPH	1000	<2	ritesh	Evelyn	2	A		8
Q3179-03	EME-TS14-01MSD	EPH	1000	<2	ritesh	Evelyn	2	A		9



RJ
9/29

* Extracts relinquished on the same date as received.

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Pre Po
PB169818TB	LEB818	15	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q3177-01	EME-TS12-01	11	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q3177-02	EME-TS13-01	12	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3177-03	EME-TS14-02	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q3179-01	EME-TS14-01	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q3179-02	EME-TS14-01MS	14	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3179-03	EME-TS14-01MSD	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2

6/9/25/25
10:00

Prep Standard - Chemical Standard Summary

Order ID : Q3179

Test : EPH

Prepbatch ID : PB169879,

Sequence ID/Qc Batch ID: FE092925AL,FF092925AR,

Standard ID :

EP2635,EP2646,PP24500,PP24501,PP24502,PP24503,PP24504,PP24505,PP24506,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24915,PP24918,PP24941,

Chemical ID :

E3875,E3926,E3956,E3966,E3972,E3973,E3974,M6151,P10758,P11140,P12364,P13280,P13281,P13620,P13673,P13674,P13690,P13954,P13955,P14029,P14030,P14031,P14032,P14058,P14059,P14060,P14061,P14074,P14075,P14076,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,P14101,P14102,P14103,P14147,P14148,P14149,P14150,W3112,W3234,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3319	6N HCL	EP2635	08/19/2025	02/17/2026	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 08/19/2025

FROM 219.00000ml of M6151 + 781.00000ml of W3112 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 09/26/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic 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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1339	100 PPM NJEPH Surrogate Spike	PP24941	09/24/2025	03/24/2026	Abdul Mirza	None	None	Yogesh Patel
								10/03/2025
FROM	1.25000ml of P14029 + 1.25000ml of P14030 + 1.25000ml of P14031 + 1.25000ml of P14032 + 1.25000ml of P14147 + 1.25000ml of P14148 + 1.25000ml of P14149 + 1.25000ml of P14150 + 490.00000ml of E3972 = Final Quantity: 500.000 ml							

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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-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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	04/30/2026	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3966

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

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)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

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

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

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	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	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	31480 / MA Fractionation Surrogate Spike Mix	A0219106	11/01/2025	05/01/2025 / yogesh	03/10/2025 / yogesh	P13954

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	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	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14031

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14032

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

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	P14059

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

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	P14077

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

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	P14083

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

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	P14099

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 #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14147

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	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

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



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Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

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

P10758
To
P10762
(S)

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 Gravimetric +/- 90.5449 µg/mL Unstressed +/- 100.4678 µg/mL Stressed
2	Naphthalene CAS # 91-20-3 (Lot MKBZ8680V) Purity 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL Gravimetric +/- 90.3656 µg/mL Unstressed +/- 100.2689 µg/mL Stressed
3	2-Methylnaphthalene CAS # 91-57-6 (Lot STBG8884) Purity 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL Gravimetric +/- 90.4557 µg/mL Unstressed +/- 100.3688 µg/mL Stressed
4	Acenaphthylene CAS # 208-96-8 (Lot N19U) Purity 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL Gravimetric +/- 90.2125 µg/mL Unstressed +/- 100.0989 µg/mL Stressed
5	Acenaphthene CAS # 83-32-9 (Lot MKCN0610) Purity 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL Gravimetric +/- 90.0953 µg/mL Unstressed +/- 99.9689 µg/mL Stressed
6	Fluorene CAS # 86-73-7 (Lot 10217947) Purity 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL Gravimetric +/- 90.8161 µg/mL Unstressed +/- 100.7687 µg/mL Stressed
7	Phenanthrene CAS # 85-01-8 (Lot MKCL7390) Purity 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL Gravimetric +/- 90.6359 µg/mL Unstressed +/- 100.5688 µg/mL Stressed

8	Anthracene CAS # 120-12-7 Purity 99%	(Lot MKCM0015)	2,002.0 µg/mL	+/- +/- +/-	11.7489 90.1854 100.0689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Fluoranthene CAS # 206-44-0 Purity 99%	(Lot MKCF7378)	2,003.0 µg/mL	+/- +/- +/-	11.7547 90.2305 100.1189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	Pyrene CAS # 129-00-0 Purity 99%	(Lot BCCB9880)	2,011.0 µg/mL	+/- +/- +/-	11.8017 90.5909 100.5188	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	Benz(a)anthracene CAS # 56-55-3 Purity 98%	(Lot P0022018-0505)	2,011.0 µg/mL	+/- +/- +/-	11.8014 90.5890 100.5168	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	Chrysene CAS # 218-01-9 Purity 99%	(Lot STBJ8094)	2,000.0 µg/mL	+/- +/- +/-	11.7371 90.0953 99.9689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	Benzo(b)fluoranthene CAS # 205-99-2 Purity 97%	(Lot 012012B)	2,006.0 µg/mL	+/- +/- +/-	11.7721 90.3638 100.2669	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	Benzo(k)fluoranthene CAS # 207-08-9 Purity 99%	(Lot 012019K)	2,010.0 µg/mL	+/- +/- +/-	11.7958 90.5458 100.4688	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	Benzo(a)pyrene CAS # 50-32-8 Purity 99%	(Lot RP210113)	2,004.0 µg/mL	+/- +/- +/-	11.7606 90.2755 100.1689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Indeno(1,2,3-cd)pyrene CAS # 193-39-5 Purity 99%	(Lot 1-RAK-33-4)	2,010.0 µg/mL	+/- +/- +/-	11.7958 90.5458 100.4688	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Dibenz(a,h)anthracene CAS # 53-70-3 Purity 99%	(Lot ER032211-01)	2,017.0 µg/mL	+/- +/- +/-	11.8369 90.8611 100.8187	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Benzo(g,h,i)perylene CAS # 191-24-2 Purity 99%	(Lot 8GFYJ)	2,003.0 µg/mL	+/- +/- +/-	11.7547 90.2305 100.1189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: Methylene chloride CAS # 75-09-2 Purity 99%							

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

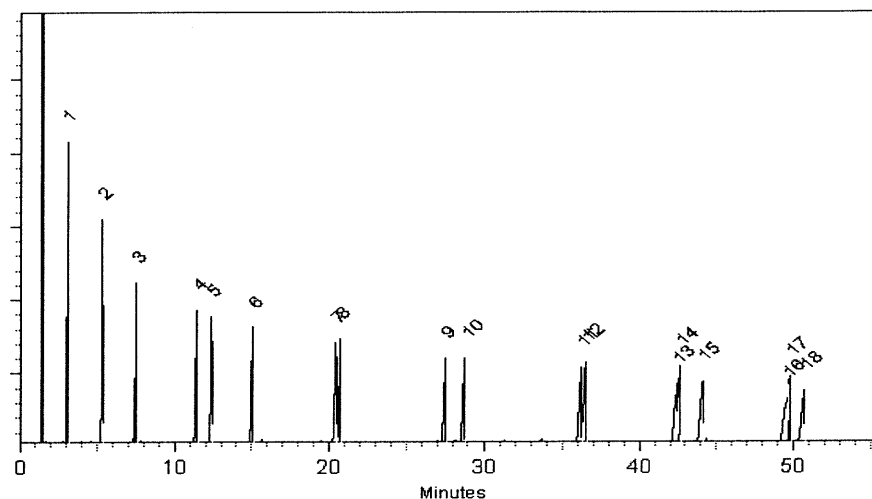
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

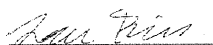
Inj. Temp:
250°C

Det. Temp:
330°C

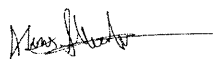
Det. Type:
FID



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:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

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.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 25C0362006
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO 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 foreign 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ₂ Cl 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
Titration 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

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

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



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) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 7/16/25

E3956

Jamie Croak
Director Quality Operations, Bioscience Production

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



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) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$< 0.01\%$

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



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) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

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

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis

 **avantor**™

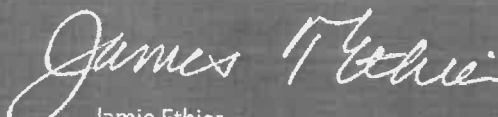


Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Certified Reference Material CRM



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
Weight(s) shown below were combined and diluted to (mL): 500.0
Balance Uncertainty: 5E-05
Flask Uncertainty: 0.058

Solvent(s): Methylene chloride
Lot# 104923

Formulated By:	Benson Chan	060420
Reviewed By:	Pedro L. Renteria	060420
DATE		

Compound	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty		CAS#	SDS Information		LD50
								(+/-) (µg/mL)	(µg/mL)		(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	

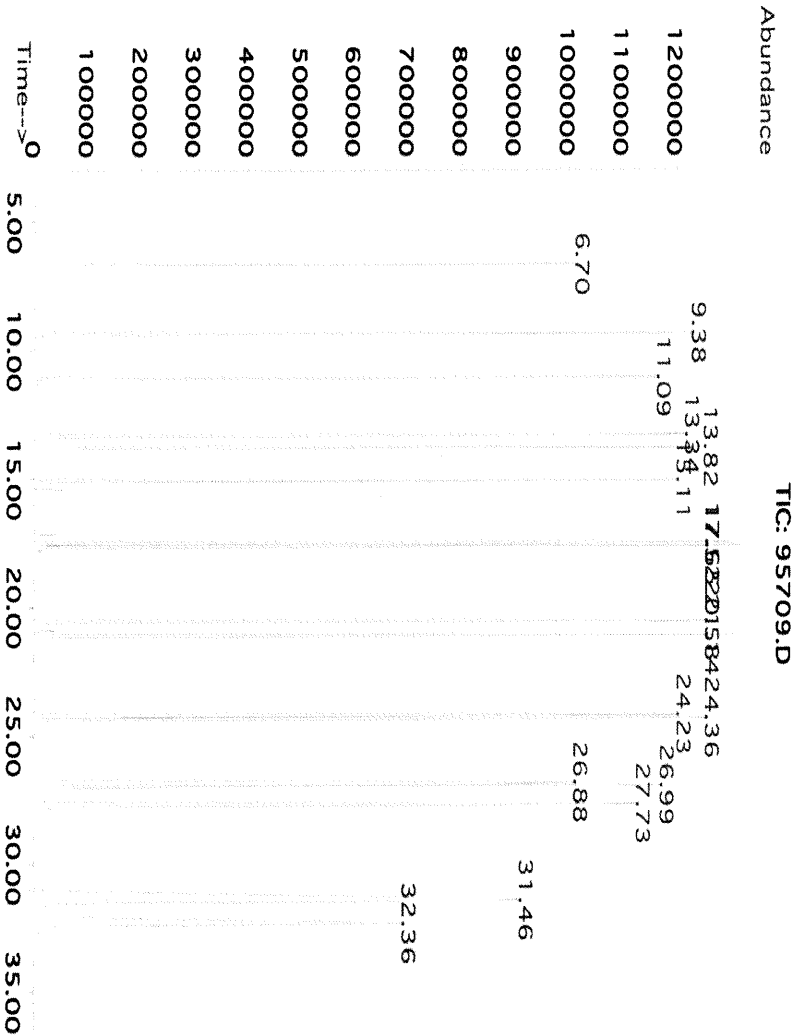
1. Acenaphthene	1	MKB14871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ip-ral 600mg/kg	
2. Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-6	N/A	N/A	
3. Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8h)	ip-trus 430mg/kg	
4. Benzo(a)anthracene	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-ral 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	ip-ral 2000mg/kg	
12. Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ip-trus 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	MKB13783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	ip-ral 1630mg/kg	
15. Naphthalene	222	MKB26890V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8h)	ip-ral 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	ip-trus 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	ip-ral 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	

• 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).

P11137
P11141
11/02/21



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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 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	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent:		Hexane/Carbon disulfide (80:20)					
	CAS #	110-54-3/75-15-0					
	Purity	99%					

Column:
30m x 0.25mm x 0.25µm
Pxx-5 (cat.#10223)

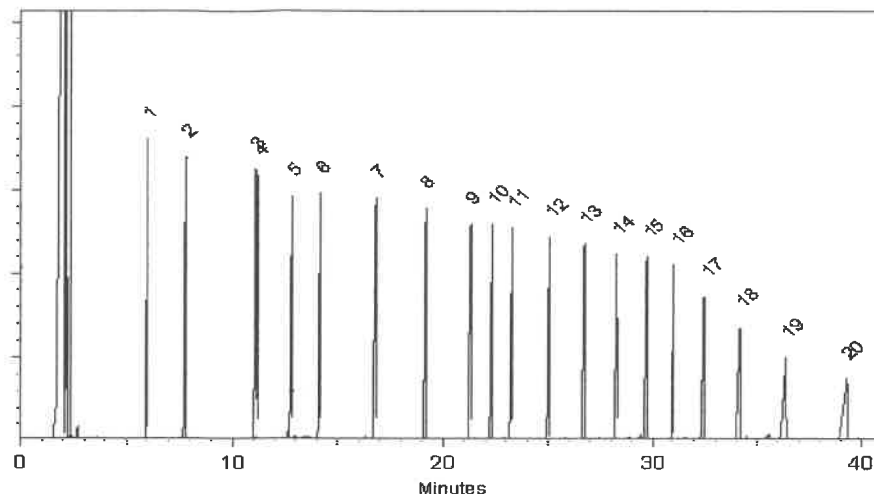
Carrier Gas:
hydrogen-constant pressure 10 psi.

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:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

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.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95999

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

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Lot Number	(RM#)	DIL	Factor	Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
		Part Number														CAS#	OSHA PEL (TWA)	LD50
1. 2-Methylnaphthalene	(0214)	MKB3783V	NA	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2. Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H)	or-rat 490mg/kg
3. n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H)	ivn-mus 218mg/kg
4. n-Decane	95708	120222	1.00	25.00	1000.9	1000	NA	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9. n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10. n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	NA	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17. n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	NA	1000	NA	0.013	NA	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	1000	NA	0.013	NA	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	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20. n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: 95999

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

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
															(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)
															CAS#	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
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/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/m ³ 8H) orl-rat 490mg/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	ivn-mus 218mg/kg
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
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	ivn-mus 3494mg/kg
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
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	583-45-3	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
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	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
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
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
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
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
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	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	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

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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-S (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:

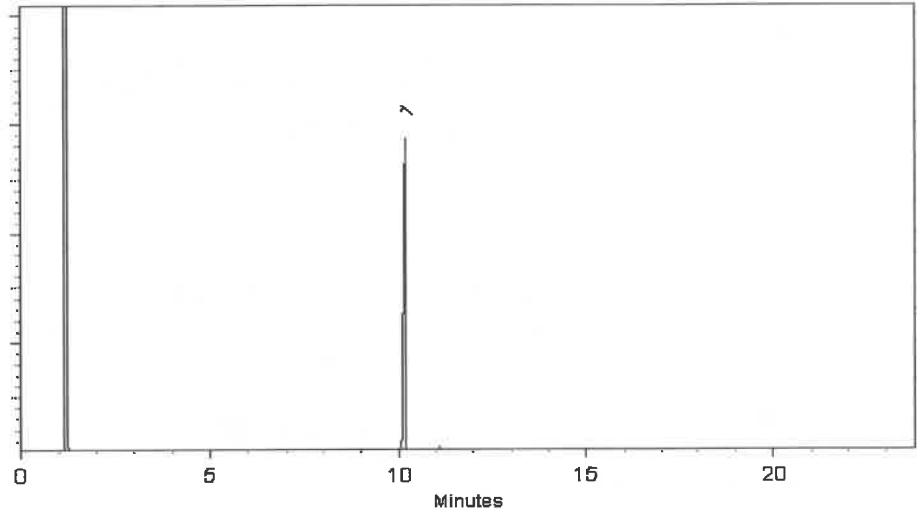
FID

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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 } Y.P.
↓
P13694 } 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:

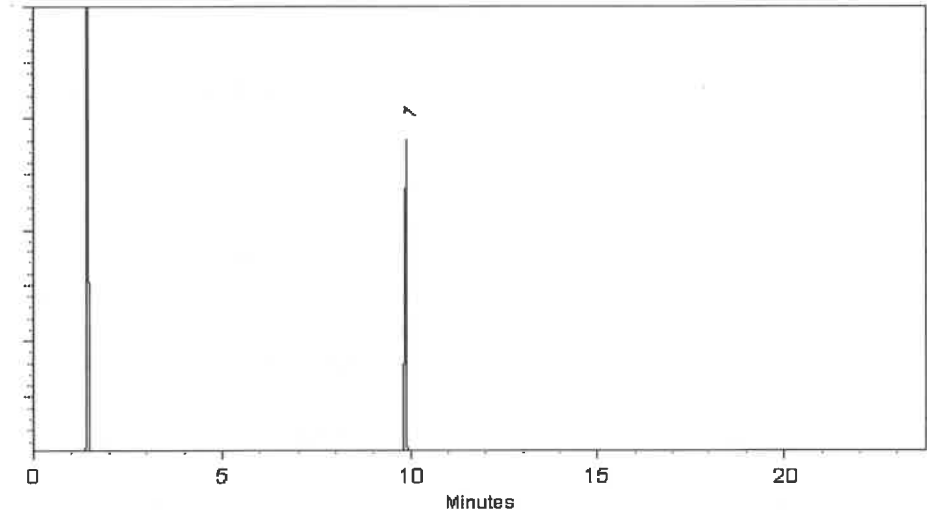
FID

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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. : 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 } Y.P.
↓
P13694 } 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:

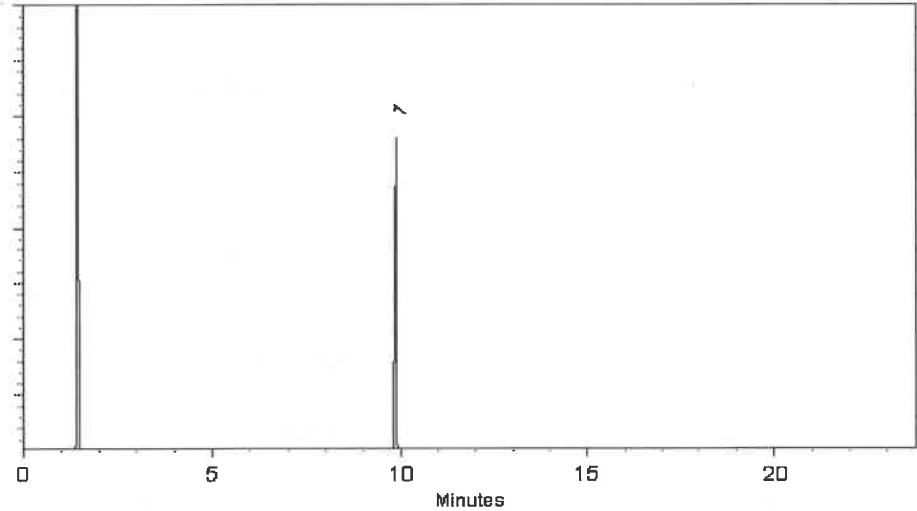
FID

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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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 } Y.P.
↓
P13694 } 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:

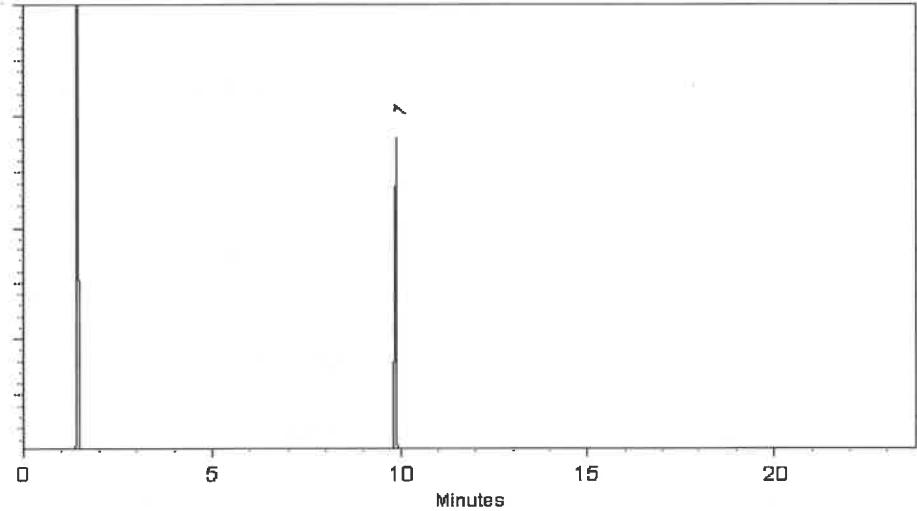
FID

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.:** A0219106
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 : October 31, 2030 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13947
L
P1395h

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-S (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.)

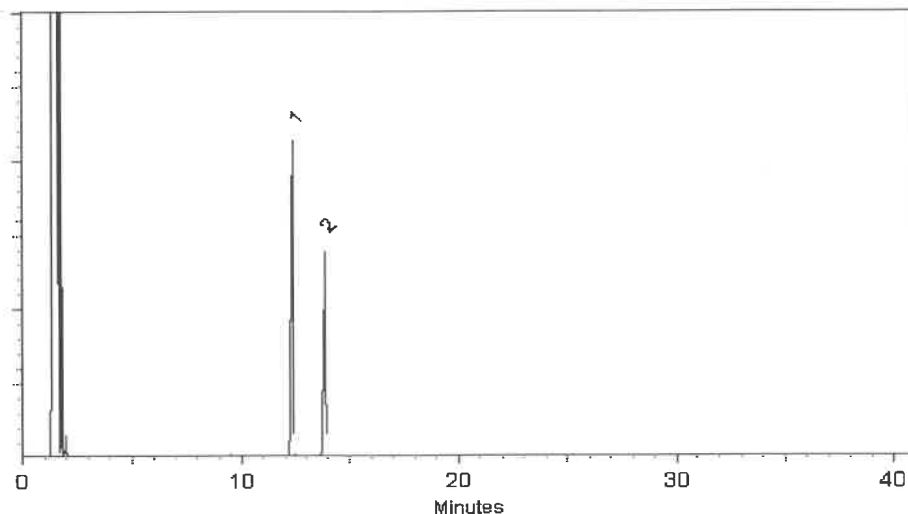
Inj. Temp:
250°C

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
Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024 **Balance Serial #** 1128353505

Jennifer Pollino
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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

P1395
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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:

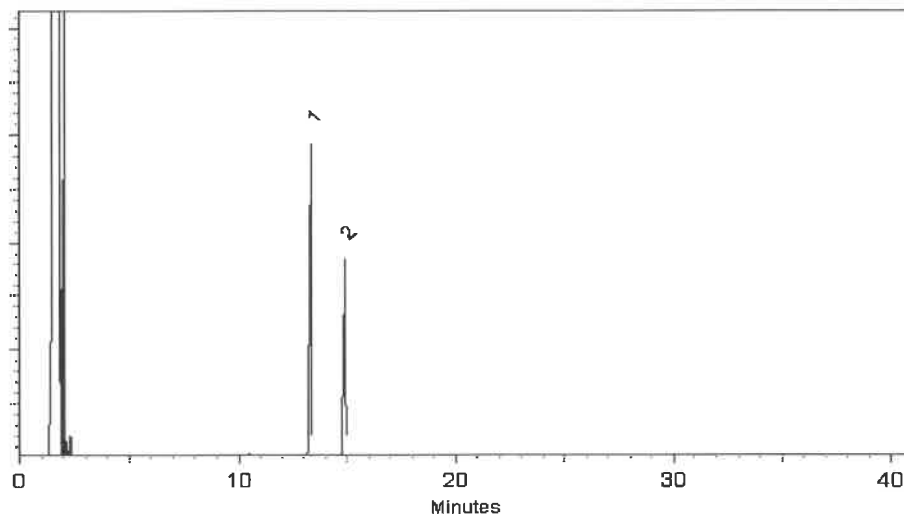
FID

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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

P14028
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P14042 } 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.)

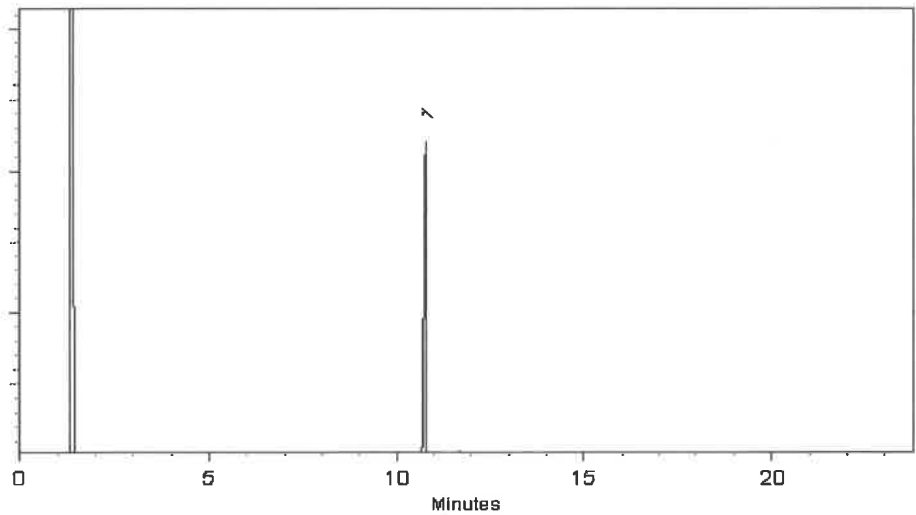
Inj. Temp:
250°C

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
Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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. : 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

P14028
↓
P14042 } 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.)

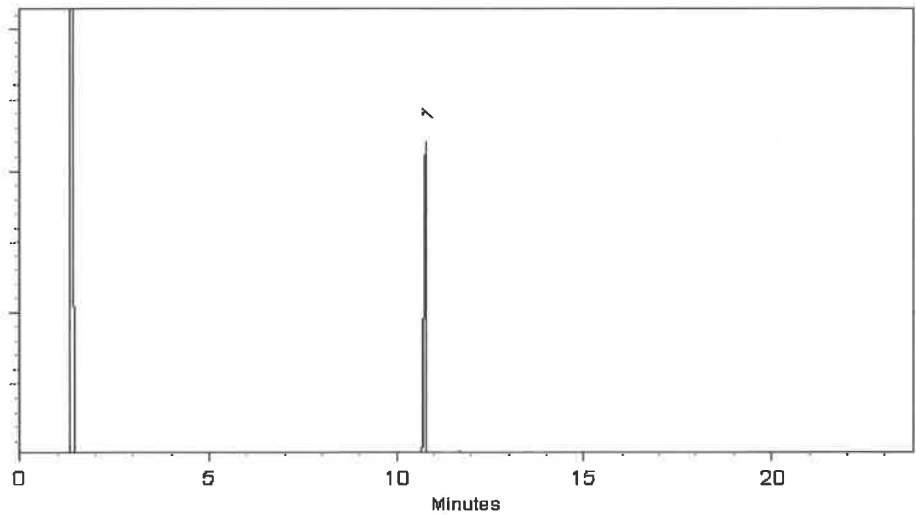
Inj. Temp:
250°C

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
Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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Container Size : 2 mL **Pkg Amt:** > 1 mL

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P14028
↓
P14042 } RC/
6/2/25

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* 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:

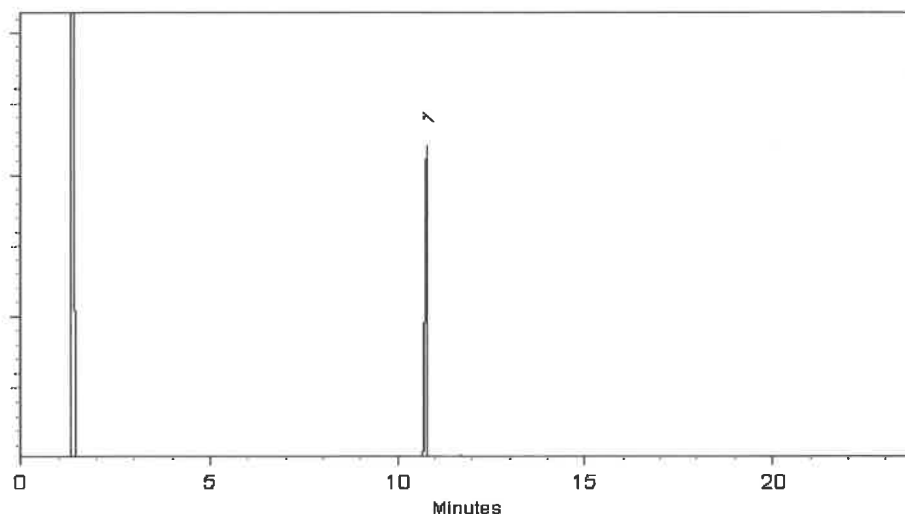
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed:

08-May-2025

Balance Serial #

1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

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P14028
↓
P14042 } RC/
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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:

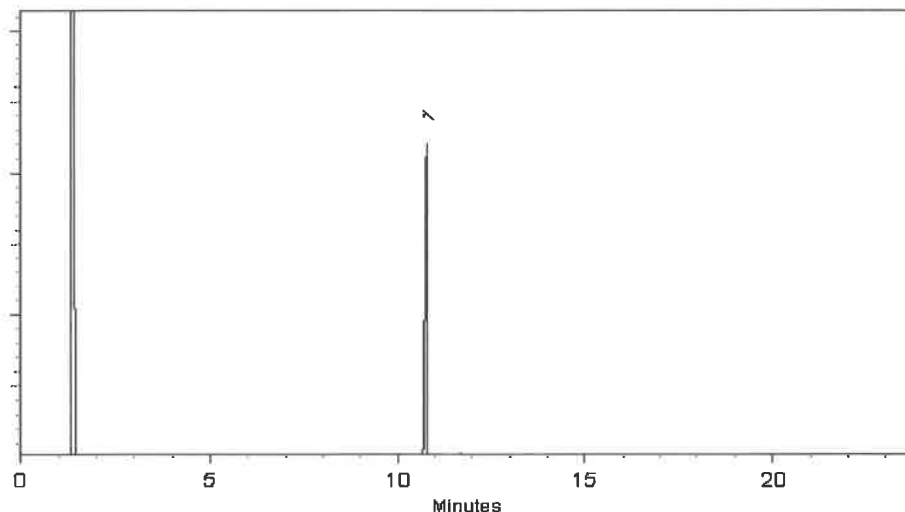
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Catalog No. : 31480 **Lot No.:** A0224278

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 } AC
↓
P14058 } 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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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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Description : MA Fractionation Surrogate Spike Mix
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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

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CAS # 110-54-3
Purity 99%



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6/10/25

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Solvent: Hexane
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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

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

P14074 } AC
↓
P14083 } 7/16/25

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

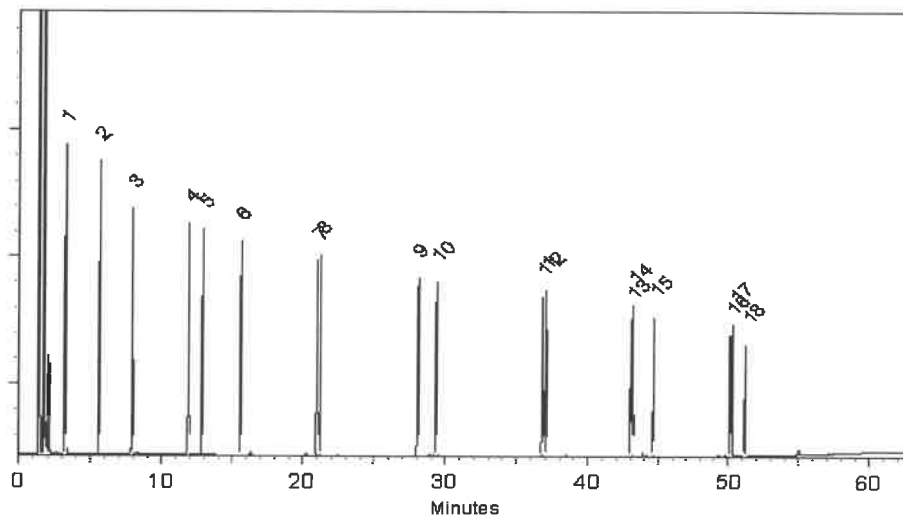
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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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

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

P14074 } AC
↓
P14083 } 7/16/25.

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

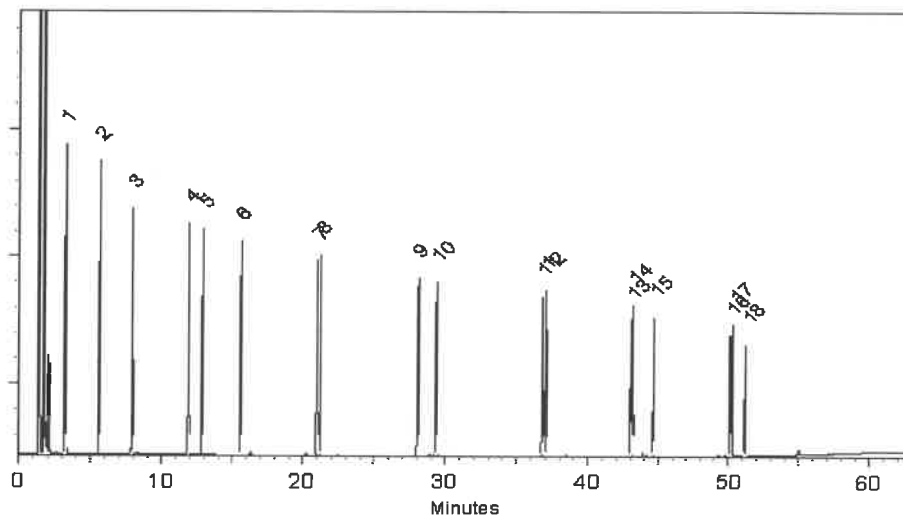
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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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Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

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Brittany Federinko - Operations Tech II

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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

P14074 } AC
↓
P14083 } 7/16/25

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
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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

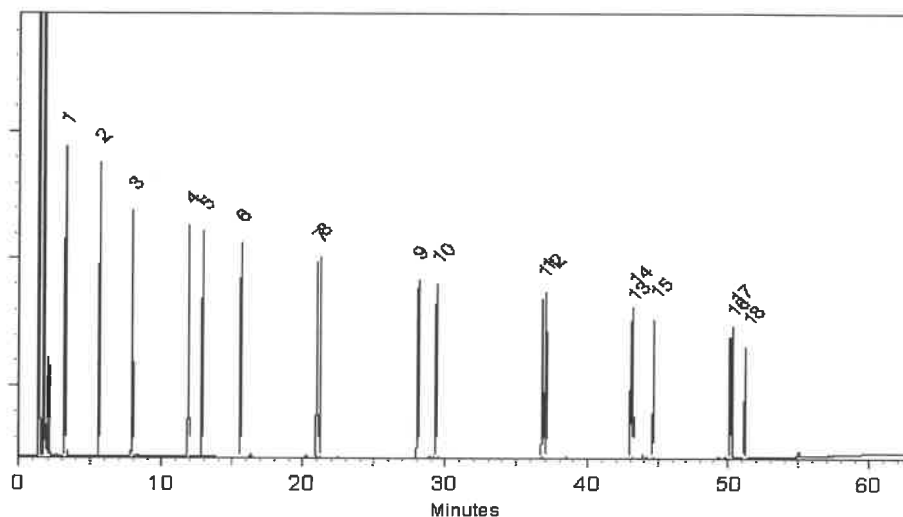
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Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
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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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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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

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

P14074 } AC
↓
P14083 } 7/16/25

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

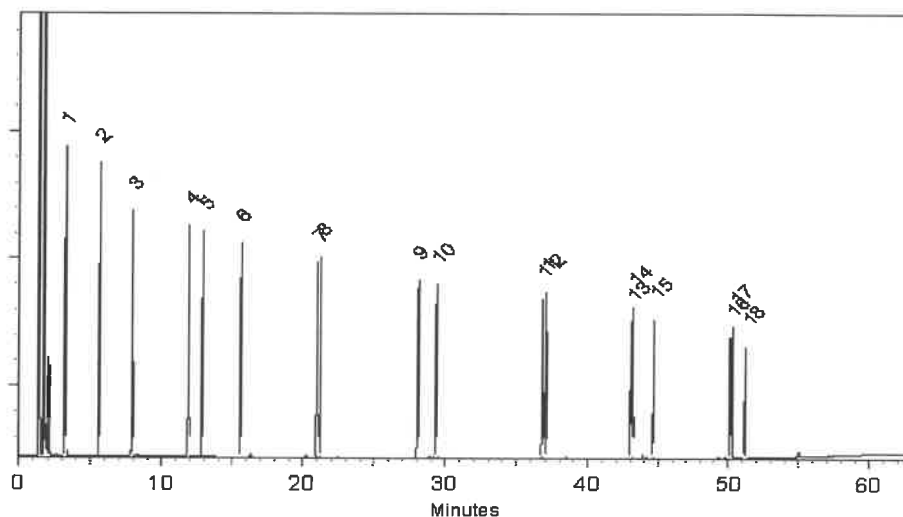
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
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.

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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

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

P14074 } AC
↓
P14083 } 7/16/25

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

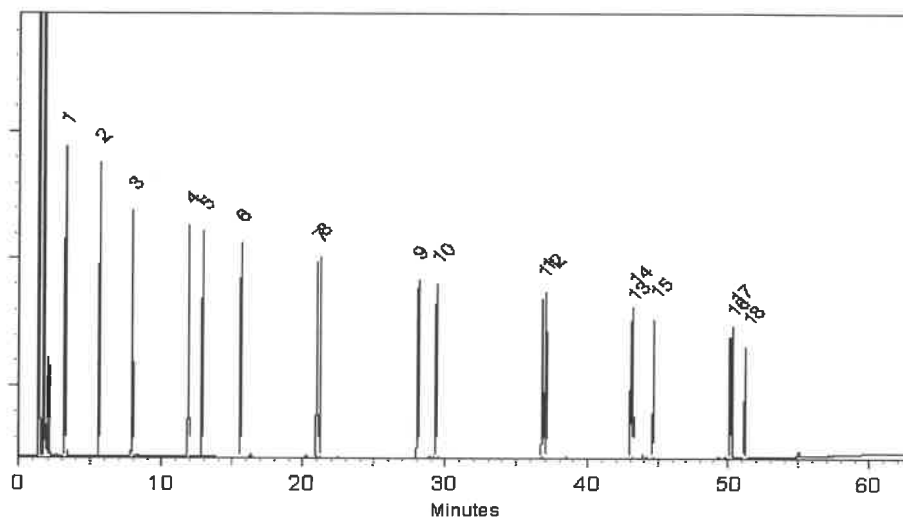
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
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

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

P14074 } AC
↓
P14083 } 7/16/25

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

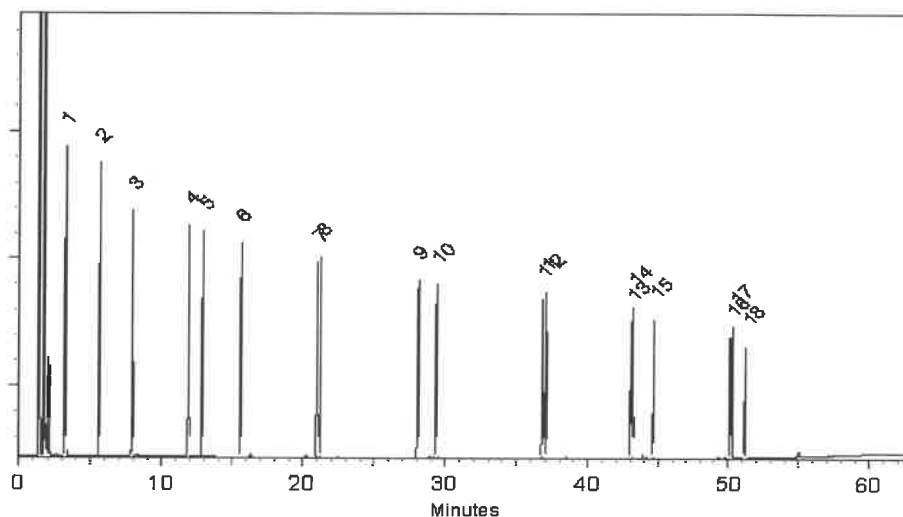
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
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

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

P14074 } AC
↓
P14083 } 7/16/25

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
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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
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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
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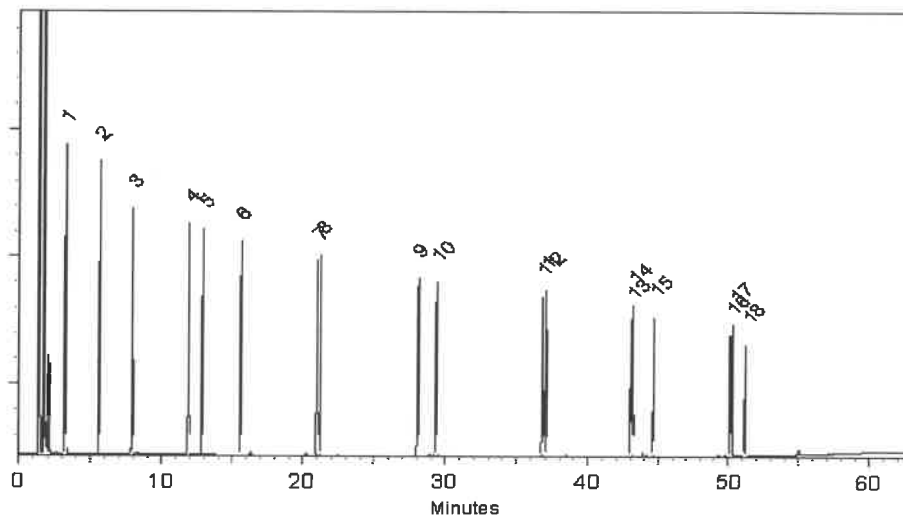
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
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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

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

P14074 } AC
↓
P14083 } 7/16/25.

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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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
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13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
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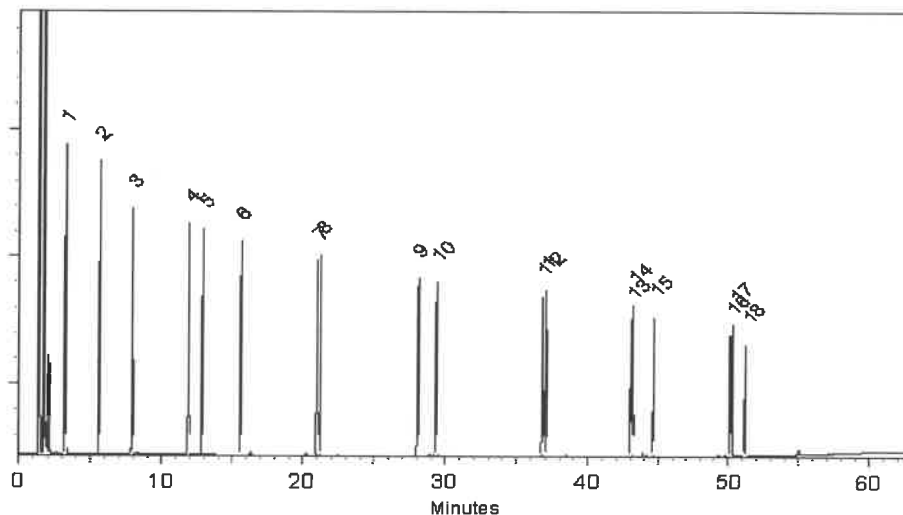
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* Expanded Uncertainty displayed in same units as Grav. Conc.

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
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Inj. Temp:
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Det. Type:
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20 ml/min.
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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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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

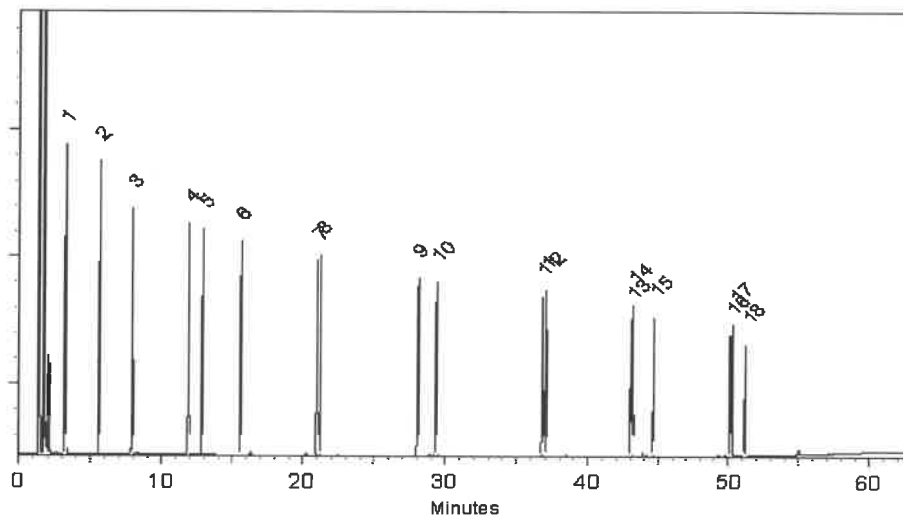
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
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

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

P14074 } AC
↓
P14083 } 7/16/25

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

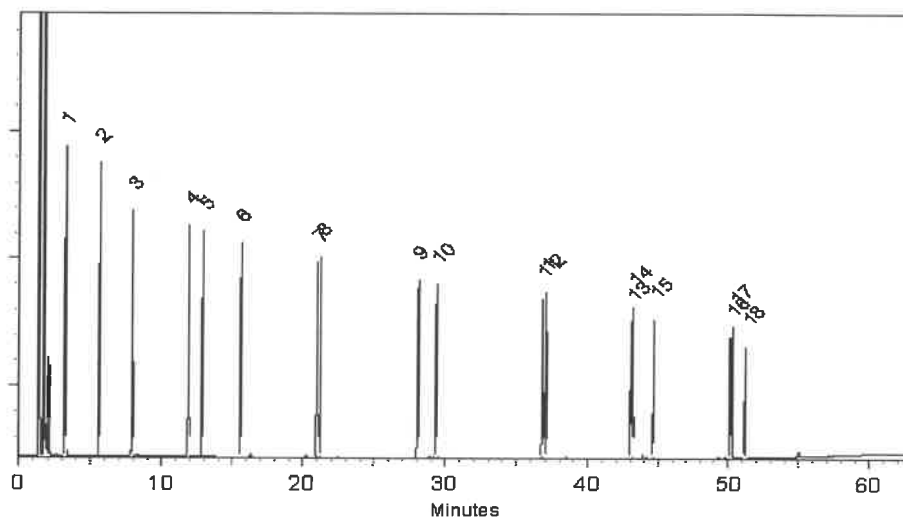
17	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
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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Bellefonte, PA 16823-8812
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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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

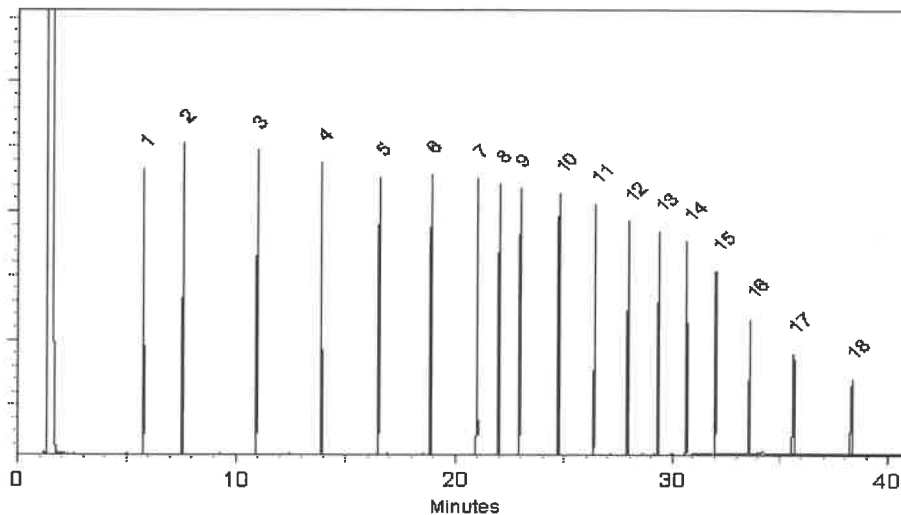
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 Balance Serial # 1128353505

Jennifer Pollino
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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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

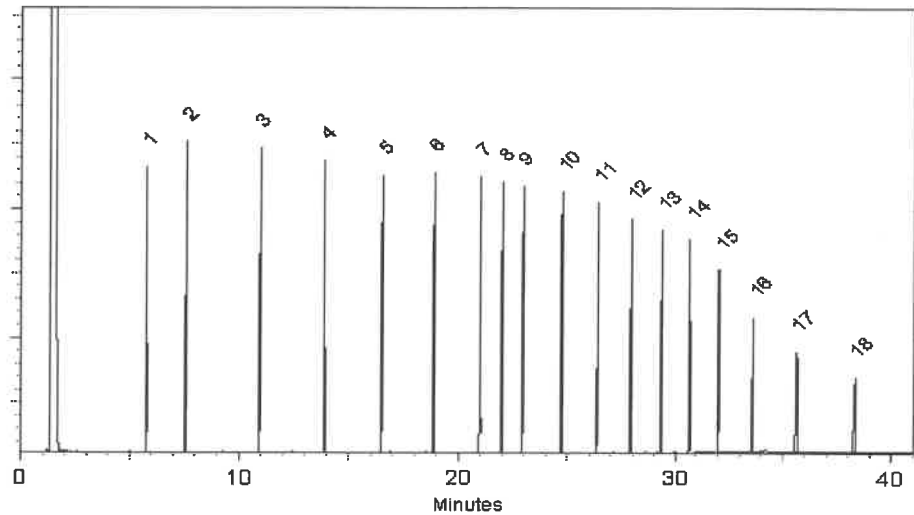
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

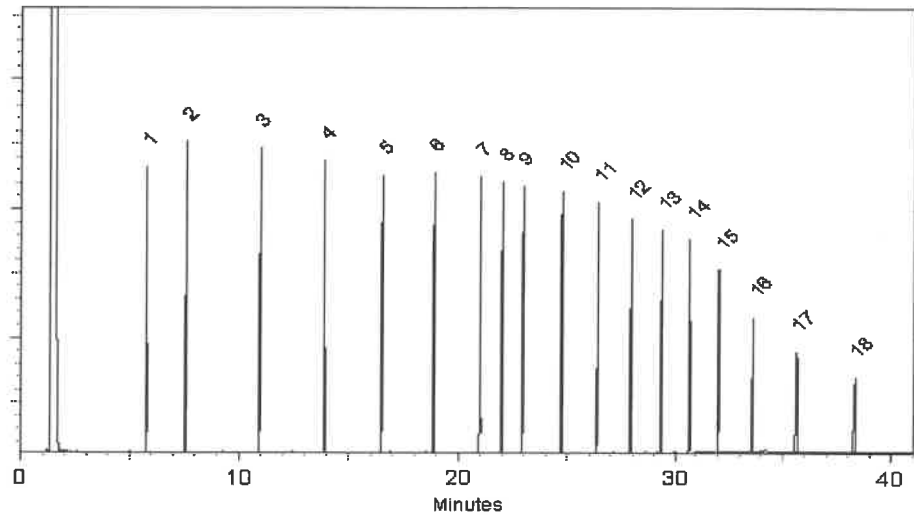
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

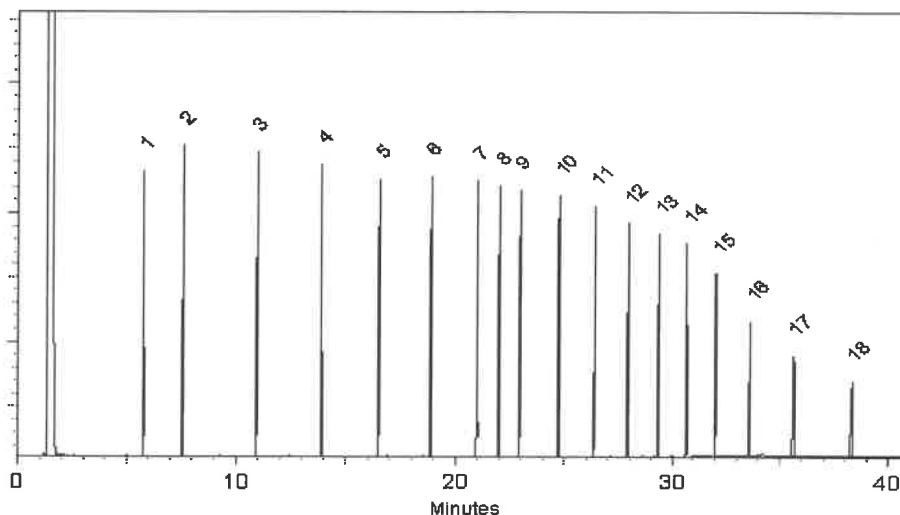
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 Balance Serial # 1128353505

Jennifer Pollino
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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

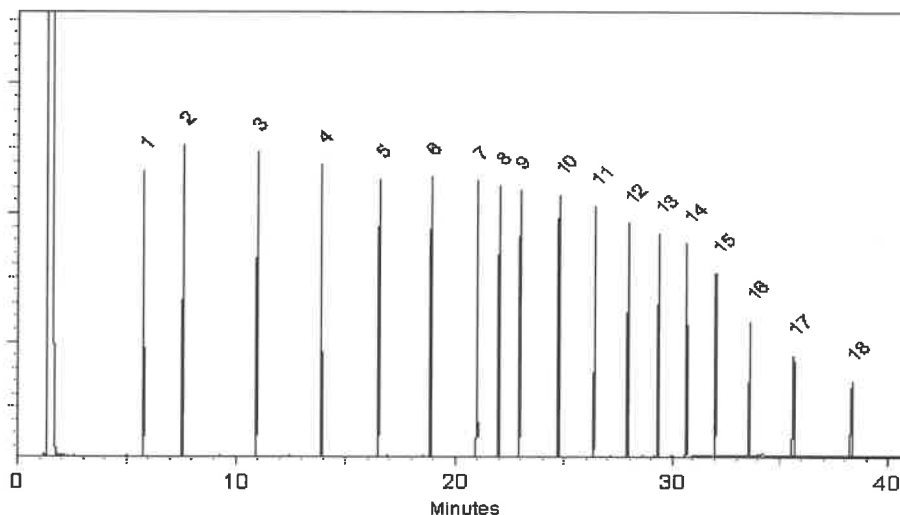
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 Balance Serial # 1128353505

Jennifer Pollino
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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Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** 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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

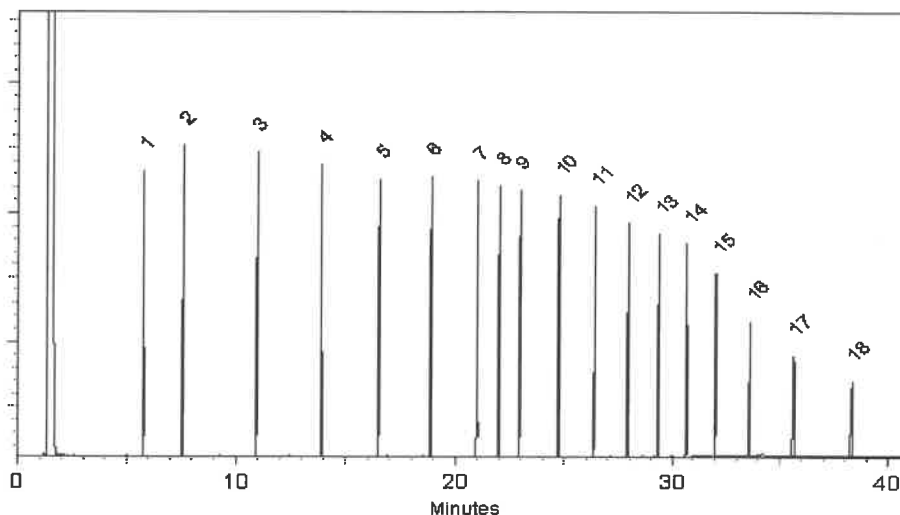
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 Balance Serial # 1128353505

Jennifer Pollino
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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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** 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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

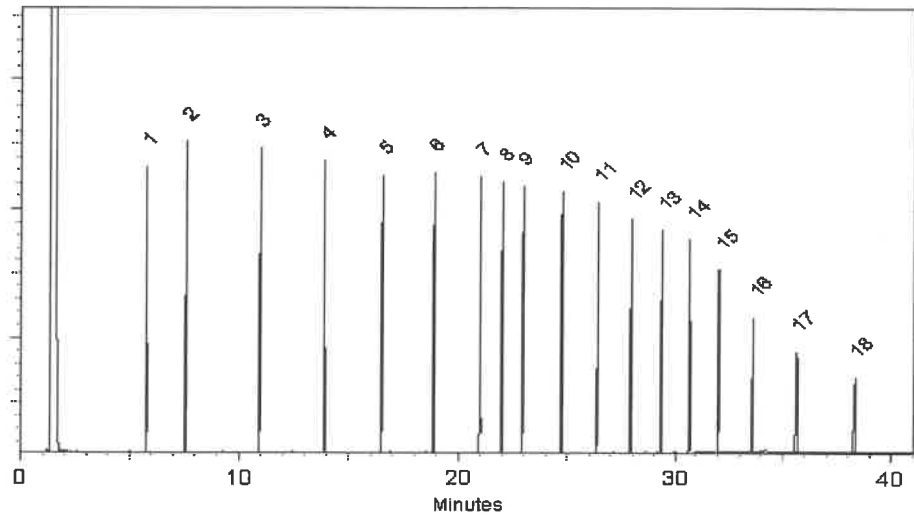
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

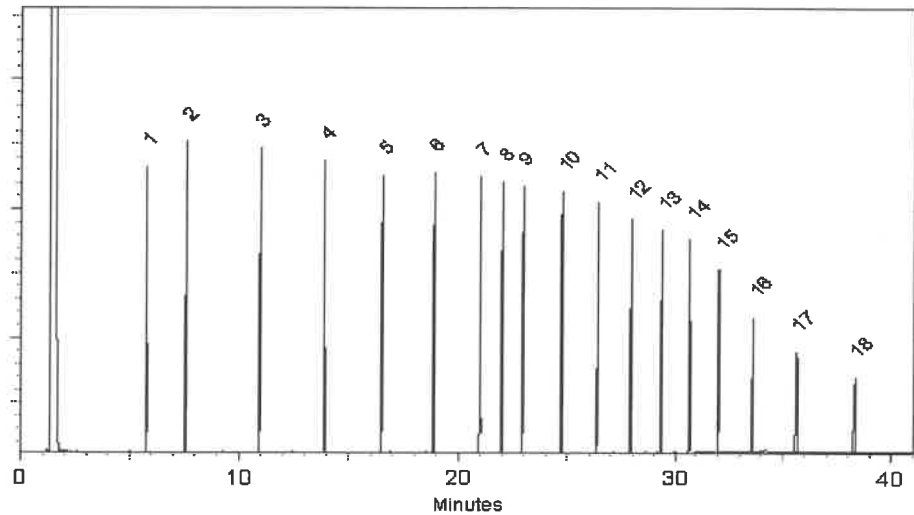
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
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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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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

* 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.)

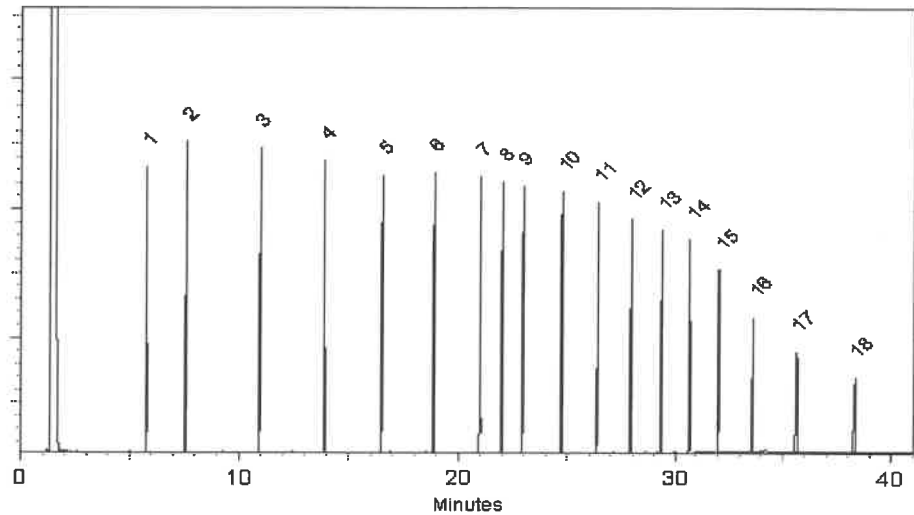
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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chromatographic plus



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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
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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
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

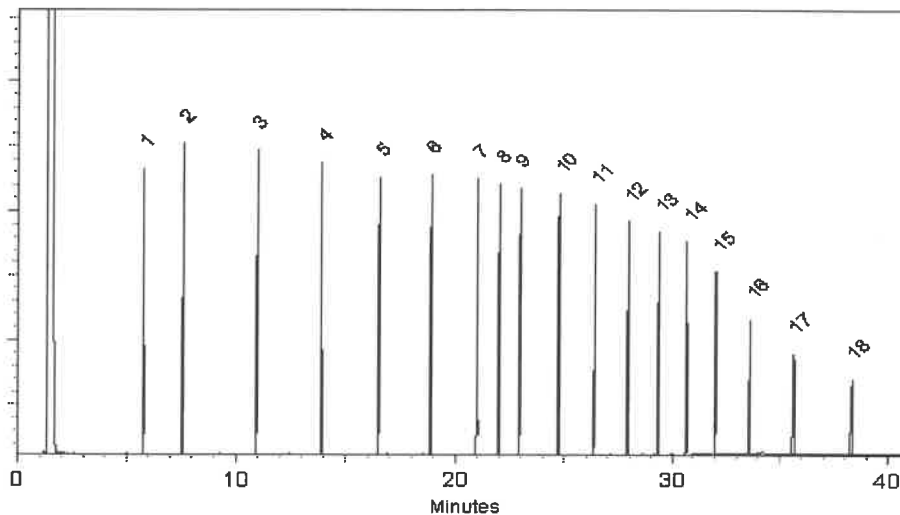
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 Balance Serial # 1128353505

Jennifer Pollino
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™



W3234 JB
OP4421. 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) (by GC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO 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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-02

Cooler #: 2 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
7	EME-TS14-01	TAL VOCs,	Soil	9/23/2025	12:45	9	5 g Encore sampler	4 C	Y
6	EME-TS14-01	EPH	Soil	9/23/2025	12:45	2	4 oz glass jar	4 C	Y
8	EME-TS14-01	SPLP VOCs	Soil	9/23/2025	12:45	9	5 g Encore sampler	4 C	Y
8	EME-TS14-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:45	4	8 oz amber glass jar	4 C	Y
5	EME-TS14-01	SPLP EPH	Soil	9/23/2025	12:45	2	4 oz glass jar	4 C	Y
5	EME-TS14-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:45	2	8 oz clear glass jar	4 C	Y
	EME-TS14-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:45	2	8 oz clear glass jar	4 C	Y
	EME-TS14-01	Percent Moisture	Soil	9/23/2025	12:45	2	4 oz jar w/ septum	4 C	Y
	EME-TS14-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:45	4	8 oz amber glass jar	4 C	Y
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smitta.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com. 7 day preliminary TAT.

SAMPLES TRANSFERRED FROM	
1	2
3	4
5	6
7	8
9	10
11	12
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83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

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 VI Weston	9/23/25 1700		9-23-25 1700	1.3°C IR Gun #1 custody seals intact Temp. Bill present

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