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Cover Page

Order ID : Q1194

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number	Client Sample Number
Q1194-01	B-110-SB01
Q1194-02	B-110-SB02
Q1194-03	B-113-SB01
Q1194-04	B-113-SB02
Q1194-08	EB
Q1194-09	FB
Q1194-10	TB

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: 1/31/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2025
Project # N/A
Chemtech Project # Q1194
Test Name: EPH

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 01/27/2025.
3 Water samples were received on 01/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for EPH.

C. Analytical Techniques:
The analysis were performed on instrument FID_C. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analyses were performed on instrument FID_D. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis were performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPHs was based on method NJEPH and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

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E. Additional Comments:

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

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1194**

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

QA Review Signature: **NILESH PRAJAPATI** **Date:** **01/31/2025**

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LAB CHRONICLE

OrderID:	Q1194	**OrderDate:**	1/27/2025 9:35:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	N41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1194-01	**B-110-SB01**	**Solid**			**01/25/25**			**01/27/25**
			EPH	NJEPH		01/28/25	01/28/25	
Q1194-02	**B-110-SB02**	**Solid**			**01/25/25**			**01/27/25**
			EPH	NJEPH		01/28/25	01/28/25	
			EPH	NJEPH		01/28/25	01/29/25	
Q1194-03	**B-113-SB01**	**Solid**			**01/25/25**			**01/27/25**
			EPH	NJEPH		01/28/25	01/28/25	
Q1194-04	**B-113-SB02**	**Solid**			**01/25/25**			**01/27/25**
			EPH	NJEPH		01/28/25	01/28/25	
Q1194-08	**EB**	**Water**			**01/25/25**			**01/27/25**
			EPH	NJEPH		01/28/25	01/28/25	



QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Run Number: FC012825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166219BL	73			0
PB166219BS	79			0
PB166219BSD	77			0
EB	64			0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Run Number: FD012825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166219BL	107	108	90	0
PB166219BS	114	122	96	0
PB166219BSD	116	124	98	0
EB	104	101	97	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Run Number: FF012825AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
PB166218BL	111	108	82	0
PB166218BS	123	109	93	0
PB166218BSD	135	119	101	0
B-110-SB01	95	88	66	0
B-110-SB01MS	108	109	70	0
B-110-SB01MSD	110	111	72	0
B-113-SB01	114	112	89	0
B-113-SB02	116	105	80	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Run Number: FF012925AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
B-110-SB02	95	96	52	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM CASE No.: Q1194 SAS No.: Q1194 SDG No.: Q1194

Run Number: FG012825AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
PB166218BL	70			0
PB166218BS	91			0
PB166218BSD	101			0
B-110-SB01	91			0
B-110-SB01MS	80			0
B-110-SB01MSD	78			0
B-110-SB02	46			0
B-113-SB01	76			0
B-113-SB02	76			0

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

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

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SOIL EPH SURROGATE RECOVERY

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

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

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : Q1194-01MS **Datafile:** FF015334.D

Client ID : B-110-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.5	0	6.80	90		(40-140)
Aromatic C12-C16	11.3	0	14.3	126		(40-140)
Aromatic C16-C21	18.8	1.53	25.6	127		(40-140)
Aromatic C21-C36	30.1	0	32.6	108		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : Q1194-01MSD **Datafile:** FF015335.D

Client ID : B-110-SB01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	7.5	0	6.92	92		1.65 |	(40-140)	25
Aromatic C12-C16	11.3	0	15.8	139		9.81 |	(40-140)	25
Aromatic C16-C21	18.8	1.53	23.1	114		10.8 |	(40-140)	25
Aromatic C21-C36	30.1	0	33.4	110		1.83 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : Q1194-01MS **Datafile:** FG015191.D

Client ID : B-110-SB01MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.3	0	8.38	74		(40-140)
Aliphatic C12-C16	7.5	0.55	7.50	92		(40-140)
Aliphatic C16-C21	11.3	0	11.2	99		(40-140)
Aliphatic C21-C28	15.1	0	14.6	97		(40-140)
Aliphatic C28-C40	22.6	0	24.3	107		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : Q1194-01MSD **Datafile:** FG015192.D

Client ID : B-110-SB01MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	11.3	0	8.23	73		1.9 |	(40-140)	25
Aliphatic C12-C16	7.5	0.55	7.39	91		1.64 |	(40-140)	25
Aliphatic C16-C21	11.3	0	11.1	98		1.01 |	(40-140)	25
Aliphatic C21-C28	15.1	0	14.5	96		0.73 |	(40-140)	25
Aliphatic C28-C40	22.6	0	24.5	108		0.93 |	(40-140)	25

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166219BS **Datafile:** FC068134.D

Client ID : PB166219BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aliphatic C9-C12	300	194	65		(40-140)
Aliphatic C12-C16	200	175	88		(40-140)
Aliphatic C16-C21	300	292	97		(40-140)
Aliphatic C21-C28	400	391	98		(40-140)
Aliphatic C28-C40	600	644	107		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166219BSD **Datafile:** FC068135.D

Client ID : PB166219BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	300	193	64		0.568| (40-140)	50
Aliphatic C12-C16	200	177	88		1.1| (40-140)	50
Aliphatic C16-C21	300	297	99		1.7| (40-140)	50
Aliphatic C21-C28	400	396	99		1.2| (40-140)	50
Aliphatic C28-C40	600	647	107		0.77| (40-140)	50

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166219BS **Datafile:** FD048968.D

Client ID : PB166219BS

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	QC LIMITS
Aromatic C10-C12	200	192	96		(40-140)
Aromatic C12-C16	300	325	108		(40-140)
Aromatic C16-C21	500	645	129		(40-140)
Aromatic C21-C36	800	1040	130		(40-140)

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WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166219BSD **Datafile:** FD048969.D

Client ID : PB166219BSD

COMPOUND	SPIKE ADDED ug/l	LCS/LCSD CONCENTRATION ug/l	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	200	195	98		1.6|	(40-140)	50
Aromatic C12-C16	300	331	110		2.1|	(40-140)	50
Aromatic C16-C21	500	661	132		2.5|	(40-140)	50
Aromatic C21-C36	800	1070	133		2.8|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166218BS **Datafile:** FF015327.D

Client ID : PB166218BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	5.79	87		(40-140)
Aromatic C12-C16	10	10.8	108		(40-140)
Aromatic C16-C21	16.7	20.6	123		(40-140)
Aromatic C21-C36	26.6	32.0	120		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166218BSD **Datafile:** FF015328.D

Client ID : PB166218BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	6.32	95		8.7|	(40-140)	50
Aromatic C12-C16	10.0	11.8	118		8.9|	(40-140)	50
Aromatic C16-C21	16.7	22.8	136		10|	(40-140)	50
Aromatic C21-C36	26.7	35.7	133		10|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166218BS **Datafile:** FG015184.D

Client ID : PB166218BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.72	67		(40-140)
Aliphatic C12-C16	6.7	6.16	92		(40-140)
Aliphatic C16-C21	10	11.2	112		(40-140)
Aliphatic C21-C28	13.3	15.1	113		(40-140)
Aliphatic C28-C40	20.0	25.5	127		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Portal Partners Tri-Venture

Lab Code: CHEM **Cas No:** Q1194 **SAS No :** Q1194 **SDG No:** Q1194

Sample No : PB166218BSD **Datafile:** FG015185.D

Client ID : PB166218BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10.0	7.22	72		7.2|	(40-140)	50
Aliphatic C12-C16	6.7	6.61	99		7|	(40-140)	50
Aliphatic C16-C21	10.0	12.1	121		7.8|	(40-140)	50
Aliphatic C21-C28	13.3	16.3	122		7.9|	(40-140)	50
Aliphatic C28-C40	20.0	27.7	138		8.7|	(40-140)	50

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166218BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Instrument ID: FID_C Lab Sample ID: PB166218BL

Matrix: (soil/water) Solid Date Extracted: 1/28/2025 8:30:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166218BS	PB166218BS
PB166218BSD	PB166218BSD
B-110-SB01	Q1194-01
B-110-SB02	Q1194-02
B-113-SB01	Q1194-03
B-113-SB02	Q1194-04
B-110-SB01MS	Q1194-01MS
B-110-SB01MSD	Q1194-01MSD

COMMENTS:

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166219BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1194 SAS No.: Q1194 SDG NO.: Q1194

Instrument ID: FID_C Lab Sample ID: PB166219BL

Matrix: (soil/water) Water Date Extracted: 1/28/2025 8:31:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166219BS	PB166219BS
PB166219BSD	PB166219BSD
EB	Q1194-08

COMMENTS:



SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 18:43	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FG015189.D
Aliphatic C12-C16	Aliphatic C12-C16	0.55	J	1	0.27	0.75	mg/kg	FG015189.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	U	1	0.34	1.13	mg/kg	FG015189.D
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	1	0.90	1.51	mg/kg	FG015189.D
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	1	2.03	2.26	mg/kg	FG015189.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FF015332.D
Aromatic C12-C16	Aromatic C12-C16	0.38	U	1	0.38	1.13	mg/kg	FF015332.D
Aromatic C16-C21	Aromatic C16-C21	1.53	J	1	1.08	1.88	mg/kg	FF015332.D
Aromatic C21-C36	Aromatic C21-C36	2.26	U	1	2.26	3.01	mg/kg	FF015332.D
Total AliphaticEPH	Total AliphaticEPH	3.97	U		3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.06	U		4.06	6.77	mg/kg	
Total EPH	Total EPH	8.04	U		8.04	13.6	mg/kg	

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

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

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Report of Analysis

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Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
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Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 18:43	PB166218

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TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	U	1	0.43	1.13	mg/kg	FG015189.D
Aliphatic C12-C16	Aliphatic C12-C16	0.55	J	1	0.27	0.75	mg/kg	FG015189.D
Aliphatic C16-C21	Aliphatic C16-C21	0.34	U	1	0.34	1.13	mg/kg	FG015189.D
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	1	0.90	1.51	mg/kg	FG015189.D
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	1	2.03	2.26	mg/kg	FG015189.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FF015332.D
Aromatic C12-C16	Aromatic C12-C16	0.38	U	1	0.38	1.13	mg/kg	FF015332.D
Aromatic C16-C21	Aromatic C16-C21	1.53	J	1	1.08	1.88	mg/kg	FF015332.D
Aromatic C21-C36	Aromatic C21-C36	2.26	U	1	2.26	3.01	mg/kg	FF015332.D
Total AliphaticEPH	Total AliphaticEPH	3.97	U		3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.06	U		4.06	6.77	mg/kg	
Total EPH	Total EPH	8.04	U		8.04	13.6	mg/kg	

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 18:43	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
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Aliphatic C16-C21	Aliphatic C16-C21	0.34	U	1	0.34	1.13	mg/kg	FG015189.D
Aliphatic C21-C28	Aliphatic C21-C28	0.90	U	1	0.90	1.51	mg/kg	FG015189.D
Aliphatic C28-C40	Aliphatic C28-C40	2.03	U	1	2.03	2.26	mg/kg	FG015189.D
Aromatic C10-C12	Aromatic C10-C12	0.34	U	1	0.34	0.75	mg/kg	FF015332.D
Aromatic C12-C16	Aromatic C12-C16	0.38	U	1	0.38	1.13	mg/kg	FF015332.D
Aromatic C16-C21	Aromatic C16-C21	1.53	J	1	1.08	1.88	mg/kg	FF015332.D
Aromatic C21-C36	Aromatic C21-C36	2.26	U	1	2.26	3.01	mg/kg	FF015332.D
Total AliphaticEPH	Total AliphaticEPH	3.97	U		3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.06	U		4.06	6.77	mg/kg	
Total EPH	Total EPH	8.04	U		8.04	13.6	mg/kg	

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LOQ = Limit of Quantitation
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015332.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.34	U	0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.38	U	0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.53	J	1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.26	U	2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.3		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.8		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.1		40 - 140	66%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-01	Acq On:	28 Jan 2025 18:43
Client Sample ID:	B-110-SB01	Operator:	YP\AJ
Data file:	FF015332.D	Misc:	
Instrument:	FID_F	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	298773	1.863	200	ug/ml
Aromatic C12-C16	6.356	9.053	542058	3.381	300	ug/ml
Aromatic C16-C21	9.054	13.372	3185348	20.33	500	ug/ml
Aromatic C21-C36	13.373	18.824	1322499	9.083	800	ug/ml
Aromatic EPH	4.485	18.824	5348678	34.657		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6244647	47.31		ug/ml
2-Flurobiphenyl (SURR)	8.864	8.864	3695410	43.78		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	5690388	33.06		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015332.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 18:43
Operator : YP\AJ
Sample : Q1194-01
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-110-SB01

Integration File: autoint1.e
Quant Time: Jan 29 00:49:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.992	6244647	47.308 ug/ml
Spiked Amount 50.000		Recovery =	94.62%
6) S 2-Flurobiphenyl (SURR)	8.864	3695410	43.780 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	87.56%
11) S ortho-Terphenyl (SURR)	11.929	5690388	33.056 ug/ml
Spiked Amount 50.000		Recovery =	66.11%
Target Compounds			

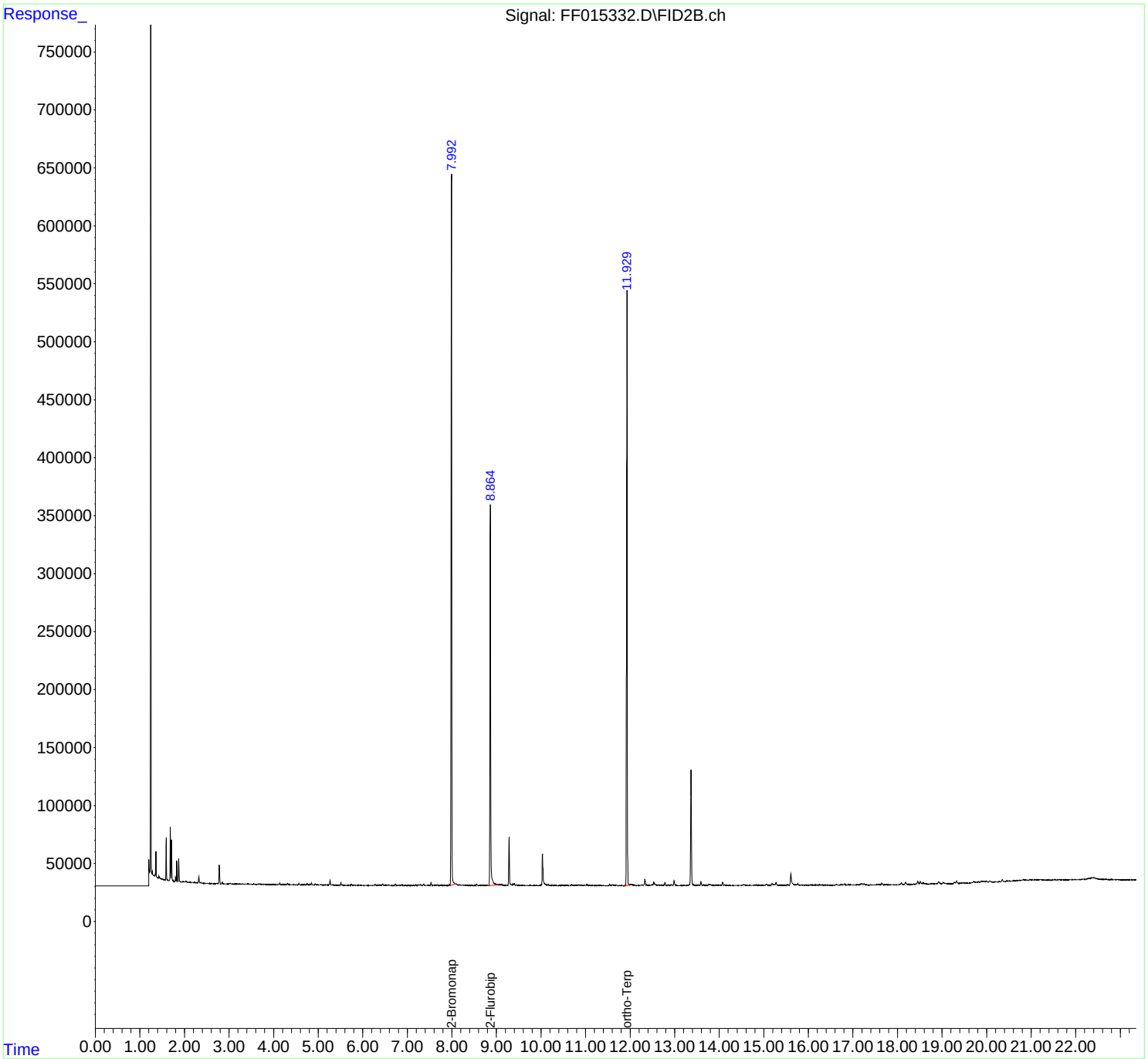
(f)=RT Delta > 1/2 Window (m)=manual int.

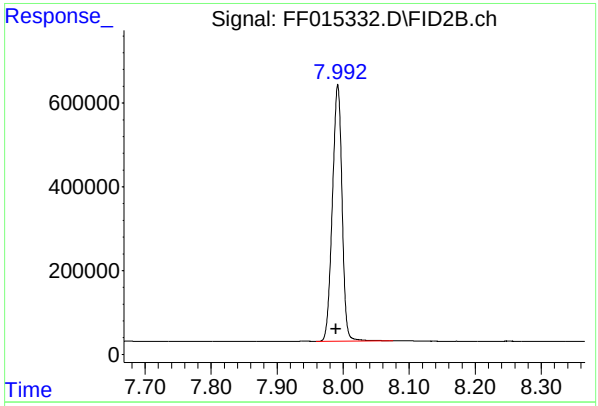
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015332.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 18:43
Operator : YP\AJ
Sample : Q1194-01
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-110-SB01

Integration File: autoint1.e
Quant Time: Jan 29 00:49:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

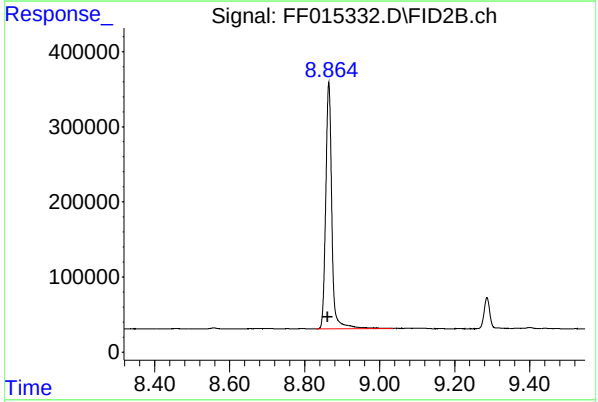




#4 2-Bromonaphthalene (SURR)

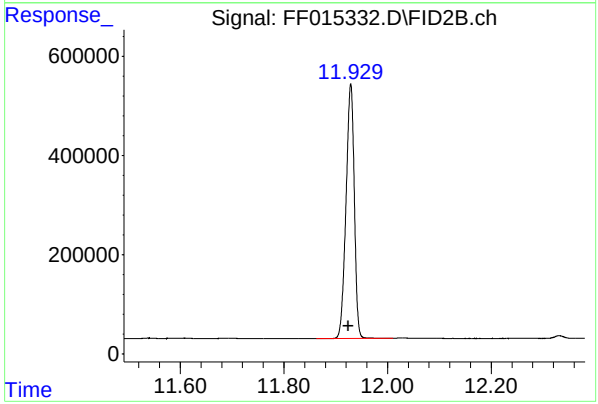
R.T.: 7.992 min
Delta R.T.: 0.003 min
Response: 6244647
Conc: 47.31 ug/ml

Instrument :
FID_F
ClientSampleId :
B-110-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: 0.003 min
Response: 3695410
Conc: 43.78 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.929 min
Delta R.T.: 0.004 min
Response: 5690388
Conc: 33.06 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015332.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 18:43
Sample : Q1194-01
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.451	4.440	4.471	VV	224	2530	0.04%	0.012%
2	4.511	4.497	4.521	VV	174	1608	0.03%	0.008%
3	4.565	4.535	4.587	PV	802	9954	0.16%	0.047%
4	4.603	4.587	4.639	VV	188	4187	0.07%	0.020%
5	4.647	4.639	4.671	VV	196	2438	0.04%	0.012%
6	4.694	4.671	4.717	VV	458	6212	0.10%	0.030%
7	4.755	4.717	4.780	PV	1156	17896	0.29%	0.085%
8	4.785	4.780	4.792	VV	247	1531	0.02%	0.007%
9	4.817	4.798	4.833	VV	900	9983	0.16%	0.047%
10	4.851	4.833	4.871	VV	1705	18168	0.29%	0.086%
11	4.885	4.871	4.909	VV	192	3209	0.05%	0.015%
12	4.929	4.909	4.972	VV	899	18169	0.29%	0.086%
13	4.982	4.972	5.041	VV	448	10386	0.17%	0.049%
14	5.060	5.041	5.107	VV	514	8563	0.14%	0.041%
15	5.121	5.107	5.134	VV	131	1629	0.03%	0.008%
16	5.140	5.134	5.153	VV	148	1160	0.02%	0.006%
17	5.178	5.153	5.215	VV	315	5956	0.10%	0.028%
18	5.241	5.222	5.248	VV	587	6043	0.10%	0.029%
19	5.268	5.248	5.303	VV	4051	48425	0.77%	0.230%
20	5.329	5.303	5.370	VV	798	10326	0.16%	0.049%
21	5.388	5.370	5.431	VV	180	2915	0.05%	0.014%
22	5.474	5.462	5.490	VV	197	2121	0.03%	0.010%
23	5.510	5.490	5.556	PV	2244	28034	0.45%	0.133%
24	5.561	5.556	5.575	VV	138	1224	0.02%	0.006%
25	5.579	5.575	5.614	VV	120	1415	0.02%	0.007%
26	5.668	5.646	5.687	VV	166	2368	0.04%	0.011%
27	5.707	5.687	5.724	VV	418	5038	0.08%	0.024%
28	5.748	5.724	5.768	VV	1136	13462	0.22%	0.064%
29	5.779	5.768	5.790	VV	191	1636	0.03%	0.008%
30	5.805	5.790	5.839	VV	385	5434	0.09%	0.026%
31	5.853	5.839	5.860	VV	119	1083	0.02%	0.005%
32	5.898	5.860	5.915	VV	245	4681	0.07%	0.022%
33	5.961	5.939	5.999	VV	204	4479	0.07%	0.021%
34	6.013	5.999	6.035	VV	225	2725	0.04%	0.013%
35	6.046	6.035	6.079	VV	169	2860	0.05%	0.014%
36	6.086	6.079	6.109	VV	161	1290	0.02%	0.006%

rteres

37	6.189	6.158	6.207	VV	173	2880	0.05%	0.014%
38	6.217	6.207	6.236	VV	220	2672	0.04%	0.013%
39	6.276	6.236	6.309	VV	928	17431	0.28%	0.083%
40	6.334	6.309	6.357	VV	467	9182	0.15%	0.044%
41	6.379	6.357	6.414	VV	858	14047	0.22%	0.067%
42	6.447	6.414	6.472	VV	1339	19999	0.32%	0.095%
43	6.475	6.472	6.489	VV	192	2015	0.03%	0.010%
44	6.502	6.489	6.513	VV	433	5359	0.09%	0.025%
45	6.517	6.513	6.549	VV	487	6126	0.10%	0.029%
46	6.578	6.549	6.603	VV	737	11293	0.18%	0.054%
47	6.619	6.612	6.649	VV	223	2667	0.04%	0.013%
48	6.654	6.649	6.671	VV	133	1054	0.02%	0.005%
49	6.732	6.704	6.762	VV	1465	17663	0.28%	0.084%
50	6.770	6.762	6.797	VV	186	3397	0.05%	0.016%
51	6.816	6.797	6.839	VV	625	8356	0.13%	0.040%
52	6.855	6.839	6.868	VV	443	4531	0.07%	0.022%
53	6.886	6.868	6.906	VV	1020	11628	0.19%	0.055%
54	6.920	6.906	6.940	VV	321	3750	0.06%	0.018%
55	6.961	6.940	6.980	VV	584	6363	0.10%	0.030%
56	7.060	7.030	7.084	PV	211	3346	0.05%	0.016%
57	7.114	7.084	7.139	VV	218	3735	0.06%	0.018%
58	7.186	7.165	7.215	VV	731	8517	0.14%	0.040%
59	7.241	7.215	7.258	VV	785	11107	0.18%	0.053%
60	7.263	7.258	7.275	VV	419	3865	0.06%	0.018%
61	7.289	7.275	7.340	VV	727	16610	0.27%	0.079%
62	7.368	7.340	7.424	VV	1479	25902	0.41%	0.123%
63	7.450	7.424	7.470	VV	418	7383	0.12%	0.035%
64	7.480	7.470	7.505	VV	341	3934	0.06%	0.019%
65	7.534	7.505	7.567	VV	2722	33786	0.54%	0.161%
66	7.593	7.567	7.607	VV	492	7036	0.11%	0.033%
67	7.610	7.607	7.631	VV	427	4792	0.08%	0.023%
68	7.642	7.631	7.655	VV	487	5007	0.08%	0.024%
69	7.676	7.655	7.701	VV	861	11532	0.18%	0.055%
70	7.716	7.701	7.724	VV	187	2092	0.03%	0.010%
71	7.739	7.724	7.753	VV	409	4709	0.08%	0.022%
72	7.768	7.753	7.792	VV	533	5874	0.09%	0.028%
73	7.804	7.792	7.813	VV	145	1001	0.02%	0.005%
74	7.835	7.813	7.876	VV	179	2973	0.05%	0.014%
75	7.890	7.876	7.901	VV	165	1606	0.03%	0.008%
76	7.912	7.901	7.923	VV	214	2012	0.03%	0.010%
77	7.942	7.923	7.960	VV	964	11321	0.18%	0.054%
78	7.992	7.960	8.044	VV	613103	6259178	100.00%	29.738%
79	8.049	8.044	8.079	VV	2631	41896	0.67%	0.199%
80	8.089	8.079	8.153	VV	1633	49061	0.78%	0.233%
81	8.172	8.153	8.197	VV	656	13500	0.22%	0.064%
82	8.206	8.197	8.228	VV	514	6842	0.11%	0.033%
83	8.250	8.228	8.279	VV	740	12786	0.20%	0.061%
84	8.305	8.279	8.327	VV	415	7563	0.12%	0.036%
85	8.347	8.327	8.353	VV	311	3994	0.06%	0.019%
86	8.356	8.353	8.372	VV	235	1827	0.03%	0.009%
87	8.378	8.372	8.383	VV	221	1153	0.02%	0.005%
88	8.386	8.383	8.430	VV	161	3339	0.05%	0.016%
89	8.456	8.430	8.489	VV	489	9438	0.15%	0.045%

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90	8.493	8.489	8.524	VV	233	3474	0.06%	0.017%
91	8.558	8.524	8.579	VV	1472	18628	0.30%	0.089%
92	8.588	8.579	8.604	VV	305	3416	0.05%	0.016%
93	8.611	8.604	8.617	VV	194	1208	0.02%	0.006%
94	8.672	8.617	8.689	VV	506	13857	0.22%	0.066%
95	8.703	8.689	8.735	VV	534	9428	0.15%	0.045%
96	8.754	8.735	8.775	VV	411	5979	0.10%	0.028%
97	8.793	8.775	8.830	VV	615	7953	0.13%	0.038%
98	8.864	8.830	9.007	VV	328118	3725742	59.52%	17.701%
99	9.017	9.007	9.036	VV	1111	17426	0.28%	0.083%
100	9.044	9.036	9.063	VV	862	12902	0.21%	0.061%
101	9.077	9.063	9.087	VV	951	12188	0.19%	0.058%
102	9.102	9.087	9.142	VV	1089	27620	0.44%	0.131%
103	9.164	9.142	9.183	VV	502	8986	0.14%	0.043%
104	9.212	9.183	9.237	VV	585	11602	0.19%	0.055%
105	9.245	9.237	9.250	VV	378	2447	0.04%	0.012%
106	9.286	9.250	9.354	VV	42179	471147	7.53%	2.238%
107	9.366	9.354	9.377	VV	1135	13456	0.21%	0.064%
108	9.401	9.377	9.425	VV	2015	33673	0.54%	0.160%
109	9.442	9.425	9.462	VV	980	14732	0.24%	0.070%
110	9.471	9.462	9.495	VV	564	7295	0.12%	0.035%
111	9.521	9.503	9.554	VV	462	6466	0.10%	0.031%
112	9.571	9.554	9.592	VV	450	6760	0.11%	0.032%
113	9.610	9.592	9.652	VV	363	7309	0.12%	0.035%
114	9.667	9.652	9.680	VV	363	4056	0.06%	0.019%
115	9.688	9.680	9.730	VV	314	4773	0.08%	0.023%
116	9.752	9.730	9.788	VV	740	11820	0.19%	0.056%
117	9.801	9.788	9.813	VV	125	1269	0.02%	0.006%
118	9.828	9.813	9.846	VV	266	3564	0.06%	0.017%
119	9.851	9.846	9.872	VV	162	1589	0.03%	0.008%
120	9.892	9.872	9.914	VV	352	4565	0.07%	0.022%
121	9.951	9.914	9.977	VV	222	4316	0.07%	0.021%
122	10.002	9.977	10.012	VV	1125	12261	0.20%	0.058%
123	10.034	10.012	10.145	VV	27476	412858	6.60%	1.962%
124	10.166	10.145	10.211	VV	1002	21129	0.34%	0.100%
125	10.234	10.211	10.293	VV	459	14166	0.23%	0.067%
126	10.310	10.293	10.315	VV	231	2430	0.04%	0.012%
127	10.340	10.315	10.359	VV	456	4903	0.08%	0.023%
128	10.395	10.377	10.428	VV	235	4563	0.07%	0.022%
129	10.446	10.428	10.457	VV	229	3122	0.05%	0.015%
130	10.494	10.457	10.527	VV	465	12060	0.19%	0.057%
131	10.560	10.527	10.577	VV	427	8836	0.14%	0.042%
132	10.591	10.577	10.615	VV	482	7879	0.13%	0.037%
133	10.647	10.615	10.660	VV	370	8084	0.13%	0.038%
134	10.687	10.660	10.712	VV	1223	16282	0.26%	0.077%
135	10.722	10.712	10.749	VV	342	5227	0.08%	0.025%
136	10.766	10.749	10.779	VV	508	6696	0.11%	0.032%
137	10.792	10.779	10.817	VV	514	8949	0.14%	0.043%
138	10.837	10.817	10.874	VV	602	15647	0.25%	0.074%
139	10.890	10.874	10.944	VV	540	16641	0.27%	0.079%
140	10.960	10.944	10.981	VV	454	7826	0.13%	0.037%
141	11.033	10.981	11.079	VV	1044	26138	0.42%	0.124%

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142	11.097	11.079	11.107	VV	301	3531	0.06%	0.017%
143	11.118	11.107	11.149	VV	291	5970	0.10%	0.028%
144	11.173	11.149	11.205	VV	359	8492	0.14%	0.040%
145	11.232	11.205	11.259	VV	294	7460	0.12%	0.035%
146	11.277	11.259	11.302	VV	299	6887	0.11%	0.033%
147	11.330	11.302	11.349	VV	519	9987	0.16%	0.047%
148	11.359	11.349	11.395	VV	307	5172	0.08%	0.025%
149	11.401	11.395	11.420	VV	168	1975	0.03%	0.009%
150	11.432	11.420	11.472	VV	158	2300	0.04%	0.011%
151	11.539	11.496	11.570	VV	1032	16533	0.26%	0.079%
152	11.610	11.570	11.642	VV	979	20375	0.33%	0.097%
153	11.687	11.642	11.752	VV	650	18523	0.30%	0.088%
154	11.769	11.752	11.789	VV	296	4511	0.07%	0.021%
155	11.805	11.789	11.862	VV	301	6442	0.10%	0.031%
156	11.929	11.862	11.987	PV	514229	5711822	91.26%	27.137%
157	12.001	11.987	12.010	VV	900	11820	0.19%	0.056%
158	12.028	12.010	12.060	VV	1457	28286	0.45%	0.134%
159	12.091	12.060	12.147	VV	876	25221	0.40%	0.120%
160	12.172	12.147	12.191	VV	326	6911	0.11%	0.033%
161	12.270	12.191	12.297	VV	809	27537	0.44%	0.131%
162	12.331	12.297	12.359	VV	5880	81680	1.30%	0.388%
163	12.373	12.359	12.395	VV	928	13299	0.21%	0.063%
164	12.413	12.395	12.462	VV	509	14466	0.23%	0.069%
165	12.494	12.462	12.509	VV	781	16457	0.26%	0.078%
166	12.530	12.509	12.622	VV	3334	84729	1.35%	0.403%
167	12.633	12.622	12.724	VV	609	30210	0.48%	0.144%
168	12.730	12.724	12.745	VV	488	5421	0.09%	0.026%
169	12.780	12.745	12.815	VV	2822	44889	0.72%	0.213%
170	12.855	12.815	12.897	VV	867	18025	0.29%	0.086%
171	12.919	12.897	12.940	VV	1039	14628	0.23%	0.070%
172	12.985	12.940	13.034	VV	4177	69214	1.11%	0.329%
173	13.039	13.034	13.121	VV	330	5609	0.09%	0.027%
174	13.202	13.121	13.223	VV	384	9607	0.15%	0.046%
175	13.244	13.223	13.264	VV	195	3664	0.06%	0.017%
176	13.288	13.264	13.302	VV	471	7304	0.12%	0.035%
177	13.323	13.302	13.332	VV	709	10163	0.16%	0.048%
178	13.365	13.332	13.468	VV	99943	1262720	20.17%	5.999%
179	13.479	13.468	13.512	VV	347	7844	0.13%	0.037%
180	13.532	13.512	13.560	VV	483	9886	0.16%	0.047%
181	13.588	13.560	13.624	VV	3308	51212	0.82%	0.243%
182	13.648	13.624	13.691	VV	523	15755	0.25%	0.075%
183	13.711	13.691	13.721	VV	419	6126	0.10%	0.029%
184	13.729	13.721	13.745	VV	383	5181	0.08%	0.025%
185	13.770	13.745	13.867	VV	1038	44283	0.71%	0.210%
186	13.870	13.867	13.893	VV	335	3753	0.06%	0.018%
187	13.940	13.893	13.962	VV	539	14595	0.23%	0.069%
188	13.983	13.962	14.017	VV	490	10022	0.16%	0.048%
189	14.073	14.017	14.101	VV	2843	45651	0.73%	0.217%
190	14.119	14.101	14.165	VV	823	15248	0.24%	0.072%
191	14.180	14.165	14.199	VV	209	3050	0.05%	0.014%
192	14.237	14.199	14.268	VV	256	6265	0.10%	0.030%
193	14.280	14.268	14.309	VV	148	1857	0.03%	0.009%
194	14.352	14.309	14.372	PV	168	4022	0.06%	0.019%

195	14.380	14.372	14.404	VV	140	1821	0.03%	0.009%
196	14.416	14.404	14.430	VV	116	1012	0.02%	0.005%
197	14.460	14.430	14.492	VV	217	4007	0.06%	0.019%
198	14.522	14.492	14.537	PV	374	7202	0.12%	0.034%
199	14.556	14.537	14.592	VV	800	15663	0.25%	0.074%
200	14.598	14.592	14.660	VV	262	7033	0.11%	0.033%
201	14.683	14.660	14.709	VV	236	5190	0.08%	0.025%
202	14.748	14.709	14.758	VV	143	3291	0.05%	0.016%
203	14.786	14.758	14.802	VV	309	5414	0.09%	0.026%
204	14.845	14.802	14.920	VV	394	17221	0.28%	0.082%
205	14.941	14.920	14.950	VV	187	2145	0.03%	0.010%
206	15.002	14.950	15.013	VV	276	6936	0.11%	0.033%
207	15.063	15.013	15.151	VV	1126	28000	0.45%	0.133%
208	15.187	15.151	15.209	VV	1644	30196	0.48%	0.143%
209	15.224	15.209	15.250	VV	1108	19712	0.31%	0.094%
210	15.271	15.250	15.365	VV	2493	46078	0.74%	0.219%
211	15.392	15.365	15.454	VV	461	11540	0.18%	0.055%
212	15.461	15.454	15.485	VV	140	1591	0.03%	0.008%
213	15.527	15.485	15.568	VV	719	15013	0.24%	0.071%
214	15.605	15.568	15.724	VV	9908	211185	3.37%	1.003%
215	15.762	15.724	15.789	VV	1239	26955	0.43%	0.128%
216	15.807	15.789	15.847	VV	405	9664	0.15%	0.046%
217	15.872	15.847	15.908	VV	302	7133	0.11%	0.034%
218	15.956	15.908	16.005	VV	346	9178	0.15%	0.044%
219	16.031	16.005	16.040	VV	204	3304	0.05%	0.016%
220	16.067	16.040	16.087	VV	303	5901	0.09%	0.028%
221	16.122	16.087	16.130	VV	330	6662	0.11%	0.032%
222	16.136	16.130	16.160	VV	314	4103	0.07%	0.019%
223	16.179	16.160	16.194	VV	329	5231	0.08%	0.025%
224	16.209	16.194	16.227	VV	300	5407	0.09%	0.026%
225	16.246	16.227	16.277	VV	760	12312	0.20%	0.058%
226	16.308	16.277	16.343	VV	389	8914	0.14%	0.042%
227	16.353	16.343	16.367	VV	155	1283	0.02%	0.006%
228	16.387	16.367	16.409	VV	232	3681	0.06%	0.017%
229	16.427	16.409	16.520	VV	232	5950	0.10%	0.028%
230	16.558	16.544	16.575	VV	85	1098	0.02%	0.005%
231	16.627	16.575	16.707	VV	742	22550	0.36%	0.107%
232	16.731	16.707	16.762	VV	765	16122	0.26%	0.077%
233	16.813	16.762	16.875	VV	1219	35785	0.57%	0.170%
234	16.910	16.875	17.000	VV	527	23319	0.37%	0.111%
235	17.027	17.000	17.045	VV	220	4588	0.07%	0.022%
236	17.092	17.045	17.117	VV	400	11507	0.18%	0.055%
237	17.163	17.117	17.178	VV	710	17860	0.29%	0.085%
238	17.199	17.178	17.224	VV	1373	23496	0.38%	0.112%
239	17.248	17.224	17.349	VV	1362	31574	0.50%	0.150%
240	17.395	17.349	17.432	VV	190	3118	0.05%	0.015%
241	17.478	17.455	17.502	PV	153	2317	0.04%	0.011%
242	17.533	17.502	17.551	VV	394	6698	0.11%	0.032%
243	17.593	17.551	17.624	VV	401	12825	0.20%	0.061%
244	17.650	17.624	17.707	VV	1623	27365	0.44%	0.130%
245	17.746	17.707	17.781	VV	459	10592	0.17%	0.050%
246	17.828	17.781	17.872	VV	177	6548	0.10%	0.031%

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247	17.877	17.872	17.900	VV	135	2042	0.03%	0.010%
248	17.929	17.900	17.950	VV	162	3170	0.05%	0.015%
249	17.958	17.950	17.987	VV	107	1278	0.02%	0.006%
250	18.088	17.987	18.120	PV	1821	34661	0.55%	0.165%
251	18.181	18.120	18.221	VV	2159	39809	0.64%	0.189%
252	18.239	18.221	18.252	VV	308	4320	0.07%	0.021%
253	18.259	18.252	18.286	VV	263	3190	0.05%	0.015%
254	18.315	18.286	18.338	VV	247	3930	0.06%	0.019%
255	18.365	18.338	18.385	PV	404	6765	0.11%	0.032%
256	18.407	18.385	18.422	VV	441	6665	0.11%	0.032%
257	18.452	18.422	18.486	VV	2272	50851	0.81%	0.242%
258	18.513	18.486	18.545	VV	2532	49148	0.79%	0.234%
259	18.571	18.545	18.680	VV	989	45667	0.73%	0.217%
260	18.690	18.680	18.705	VV	151	1311	0.02%	0.006%
261	18.769	18.705	18.800	PBA	382	11652	0.19%	0.055%
			Sum of corrected areas:			21047957		

Aromatic EPH 011425.M Wed Jan 29 02:04:43 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.09 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015189.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.43	U	0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.55	J	0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.34	U	0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.90	U	0.90	1.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.03	U	2.03	2.26	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		45.3		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-01	Acq On:	28 Jan 2025 18:43
Client Sample ID:	B-110-SB01	Operator:	YP\AJ
Data file:	FG015189.D	Misc:	
Instrument:	FID_G	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	310202	2.334	300	ug/ml
Aliphatic C12-C16	6.821	10.273	1029312	7.289	200	ug/ml
Aliphatic C16-C21	10.274	13.656	509558	3.526	300	ug/ml
Aliphatic C21-C28	13.657	17.330	426160	3.117	400	ug/ml
Aliphatic C28-C40	17.331	22.272	1393341	13.196	600	ug/ml
Aliphatic EPH	3.178	22.272	3668573	29.462		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.385	13.385	5519886	45.33		ug/ml
Aliphatic C9-C28	3.178	17.330	2275232	16.266	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015189.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 18:43
Operator : YP\AJ
Sample : Q1194-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB01

Integration File: autoint1.e
Quant Time: Jan 29 02:36:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.385	5519886	45.333 ug/ml
Spiked Amount 50.000		Recovery = 90.67%	
Target Compounds			

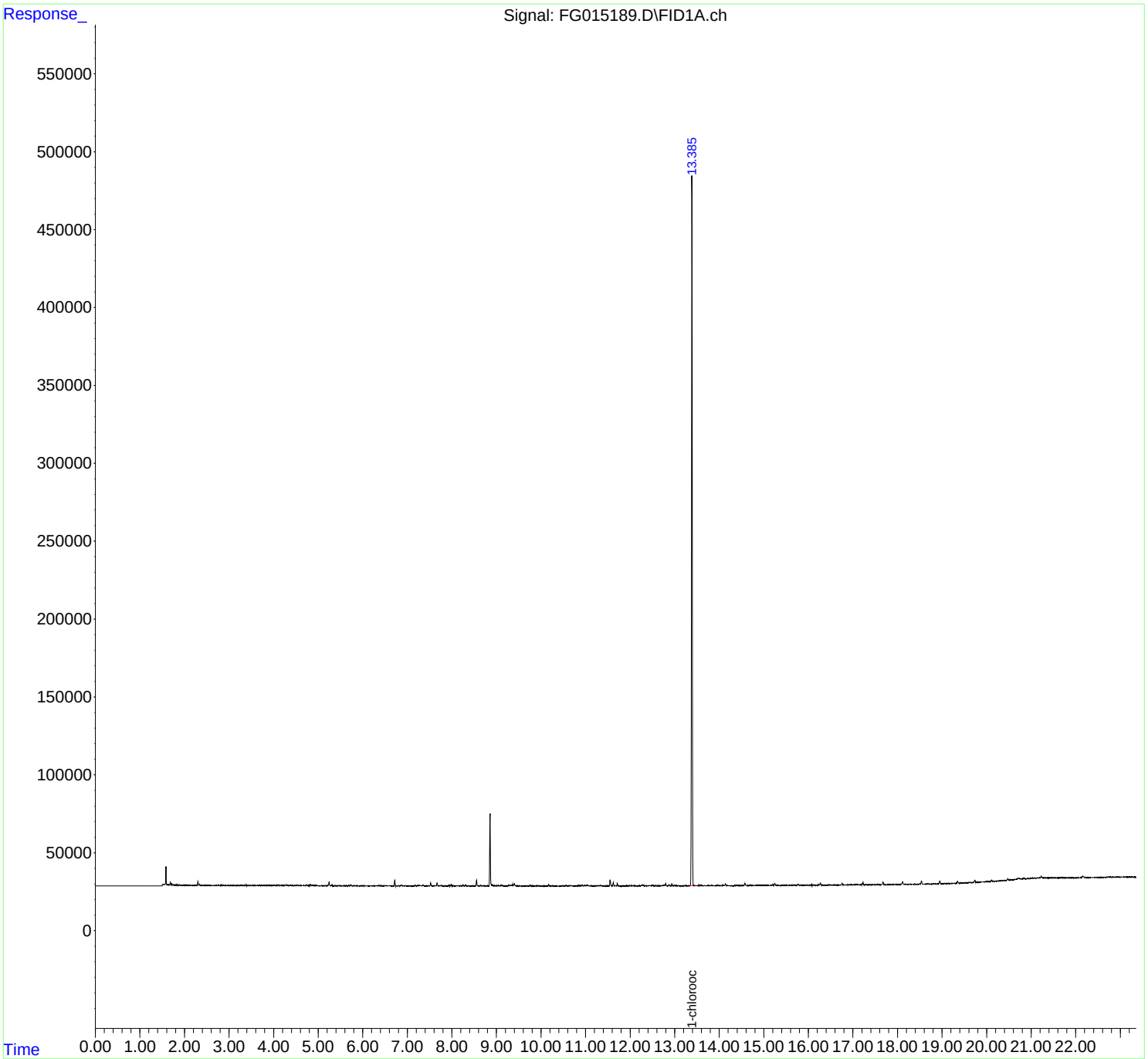
(f)=RT Delta > 1/2 Window (m)=manual int.

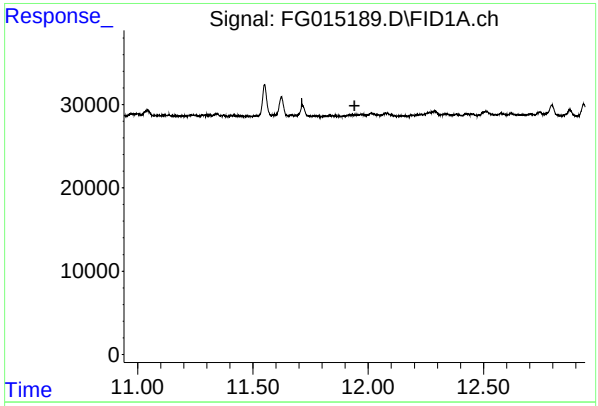
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015189.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 18:43
Operator : YP\AJ
Sample : Q1194-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB01

Integration File: autoint1.e
Quant Time: Jan 29 02:36:35 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

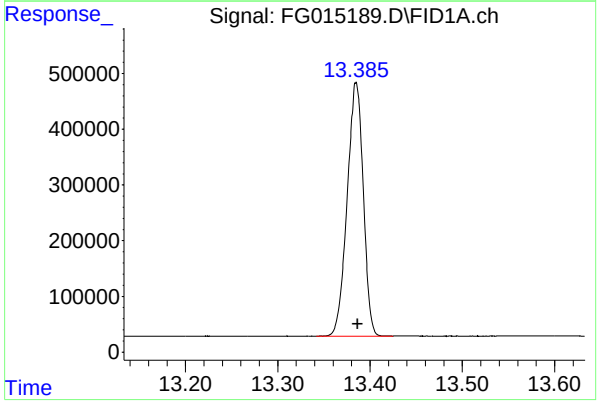




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.940 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
B-110-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: -0.002 min
Response: 5519886
Conc: 45.33 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015189.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 18:43
Sample : Q1194-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.281	3.221	3.312	BV	227	2480	0.04%	0.027%
2	3.321	3.312	3.355	PV	66	574	0.01%	0.006%
3	3.388	3.355	3.485	VV	114	3343	0.06%	0.036%
4	3.498	3.485	3.507	VV	90	899	0.02%	0.010%
5	3.521	3.507	3.653	VV	136	6609	0.12%	0.072%
6	3.673	3.653	3.720	VV	185	4063	0.07%	0.044%
7	3.731	3.720	3.745	VV	166	1696	0.03%	0.018%
8	3.760	3.745	3.840	VV	249	4857	0.09%	0.053%
9	3.879	3.840	3.928	VV	236	4223	0.08%	0.046%
10	3.935	3.928	3.948	VV	61	529	0.01%	0.006%
11	3.962	3.948	4.031	VV	94	2689	0.05%	0.029%
12	4.079	4.031	4.093	PV	202	3971	0.07%	0.043%
13	4.112	4.093	4.176	VV	556	7895	0.14%	0.086%
14	4.194	4.176	4.225	VV	150	2529	0.05%	0.027%
15	4.249	4.225	4.268	VV	225	3915	0.07%	0.043%
16	4.284	4.268	4.340	VV	503	7831	0.14%	0.085%
17	4.356	4.340	4.432	VV	140	4859	0.09%	0.053%
18	4.442	4.432	4.448	VV	103	805	0.01%	0.009%
19	4.478	4.448	4.489	VV	101	2386	0.04%	0.026%
20	4.495	4.489	4.501	VV	81	564	0.01%	0.006%
21	4.541	4.501	4.567	VV	556	8763	0.16%	0.095%
22	4.578	4.567	4.641	VV	149	4334	0.08%	0.047%
23	4.668	4.641	4.698	VV	288	4643	0.08%	0.050%
24	4.729	4.698	4.752	VV	730	9502	0.17%	0.103%
25	4.761	4.752	4.771	VV	189	1612	0.03%	0.018%
26	4.793	4.771	4.808	VV	512	6247	0.11%	0.068%
27	4.826	4.808	4.846	VV	998	10671	0.19%	0.116%
28	4.853	4.846	4.871	VV	157	1783	0.03%	0.019%
29	4.892	4.871	4.924	VV	165	4036	0.07%	0.044%
30	4.954	4.924	4.981	VV	194	5137	0.09%	0.056%
31	5.000	4.981	5.017	VV	179	2571	0.05%	0.028%
32	5.029	5.017	5.089	VV	134	4122	0.07%	0.045%
33	5.099	5.089	5.105	VV	76	541	0.01%	0.006%
34	5.112	5.105	5.119	VV	83	562	0.01%	0.006%
35	5.159	5.119	5.191	VV	167	3868	0.07%	0.042%
36	5.245	5.191	5.281	VV	2561	34523	0.62%	0.375%

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37	5.308	5.281	5.333	VV	506	6589	0.12%	0.072%
38	5.341	5.333	5.362	VV	71	1004	0.02%	0.011%
39	5.367	5.362	5.404	VV	92	843	0.02%	0.009%
40	5.425	5.404	5.435	VV	107	1310	0.02%	0.014%
41	5.456	5.435	5.477	VV	161	2141	0.04%	0.023%
42	5.496	5.477	5.553	VV	169	3215	0.06%	0.035%
43	5.569	5.553	5.599	VV	95	1486	0.03%	0.016%
44	5.647	5.599	5.664	VV	179	2787	0.05%	0.030%
45	5.684	5.664	5.704	VV	439	5162	0.09%	0.056%
46	5.728	5.704	5.765	VV	771	9698	0.18%	0.105%
47	5.789	5.765	5.837	VV	230	4177	0.08%	0.045%
48	5.879	5.837	5.905	VV	173	3674	0.07%	0.040%
49	5.915	5.905	5.922	VV	81	522	0.01%	0.006%
50	5.929	5.922	5.937	PV	45	378	0.01%	0.004%
51	5.951	5.937	5.970	PV	75	1191	0.02%	0.013%
52	5.994	5.970	6.040	VV	171	3905	0.07%	0.042%
53	6.053	6.040	6.141	VV	97	2954	0.05%	0.032%
54	6.152	6.141	6.161	VV	66	507	0.01%	0.006%
55	6.258	6.161	6.305	VV	215	8086	0.15%	0.088%
56	6.318	6.305	6.345	VV	262	3674	0.07%	0.040%
57	6.364	6.345	6.397	VV	490	7110	0.13%	0.077%
58	6.409	6.397	6.418	VV	145	1526	0.03%	0.017%
59	6.431	6.418	6.457	VV	265	3858	0.07%	0.042%
60	6.502	6.457	6.529	VV	236	7225	0.13%	0.078%
61	6.550	6.529	6.596	VV	144	3975	0.07%	0.043%
62	6.607	6.596	6.625	VV	142	1563	0.03%	0.017%
63	6.642	6.625	6.663	VV	96	1323	0.02%	0.014%
64	6.681	6.663	6.692	VV	101	1113	0.02%	0.012%
65	6.719	6.692	6.785	VV	3801	43935	0.79%	0.477%
66	6.807	6.785	6.828	VV	459	5639	0.10%	0.061%
67	6.842	6.828	6.856	VV	274	3225	0.06%	0.035%
68	6.875	6.856	6.895	VV	728	8900	0.16%	0.097%
69	6.909	6.895	6.931	VV	275	2931	0.05%	0.032%
70	6.949	6.931	6.966	VV	402	4332	0.08%	0.047%
71	6.975	6.966	7.025	VV	106	1865	0.03%	0.020%
72	7.050	7.025	7.085	VV	116	2303	0.04%	0.025%
73	7.098	7.085	7.109	VV	89	1129	0.02%	0.012%
74	7.126	7.109	7.150	VV	108	1474	0.03%	0.016%
75	7.177	7.150	7.211	PV	474	6227	0.11%	0.068%
76	7.232	7.211	7.266	VV	577	10943	0.20%	0.119%
77	7.283	7.266	7.324	VV	496	11278	0.20%	0.123%
78	7.360	7.324	7.388	VV	813	14357	0.26%	0.156%
79	7.402	7.388	7.419	VV	263	2737	0.05%	0.030%
80	7.444	7.419	7.456	VV	261	3457	0.06%	0.038%
81	7.470	7.456	7.503	VV	214	4191	0.08%	0.046%
82	7.527	7.503	7.555	VV	1908	21972	0.40%	0.239%
83	7.588	7.555	7.619	VV	282	6686	0.12%	0.073%
84	7.635	7.619	7.648	VV	330	4239	0.08%	0.046%
85	7.670	7.648	7.698	VV	1988	23766	0.43%	0.258%
86	7.705	7.698	7.720	VV	178	2522	0.05%	0.027%
87	7.732	7.720	7.748	VV	309	3654	0.07%	0.040%
88	7.763	7.748	7.813	VV	351	6473	0.12%	0.070%
89	7.847	7.813	7.867	VV	200	3929	0.07%	0.043%

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90	7.881	7.867	7.915	VV	142	2257	0.04%	0.025%
91	7.937	7.915	7.961	VV	702	8606	0.16%	0.093%
92	7.984	7.961	8.081	VV	1063	19737	0.36%	0.214%
93	8.101	8.081	8.121	VV	217	4079	0.07%	0.044%
94	8.134	8.121	8.151	VV	283	4146	0.07%	0.045%
95	8.158	8.151	8.181	VV	276	2783	0.05%	0.030%
96	8.201	8.181	8.223	VV	319	4078	0.07%	0.044%
97	8.248	8.223	8.283	VV	868	10947	0.20%	0.119%
98	8.304	8.283	8.326	VV	907	9665	0.17%	0.105%
99	8.338	8.326	8.354	VV	187	2324	0.04%	0.025%
100	8.374	8.354	8.391	VV	339	4281	0.08%	0.047%
101	8.407	8.391	8.437	VV	169	2816	0.05%	0.031%
102	8.461	8.437	8.481	VV	340	4974	0.09%	0.054%
103	8.490	8.481	8.523	VV	114	2381	0.04%	0.026%
104	8.555	8.523	8.582	VV	3834	43221	0.78%	0.470%
105	8.591	8.582	8.635	VV	261	5276	0.10%	0.057%
106	8.656	8.635	8.691	VV	358	9436	0.17%	0.103%
107	8.705	8.691	8.735	VV	387	5690	0.10%	0.062%
108	8.751	8.735	8.774	VV	311	4375	0.08%	0.048%
109	8.792	8.774	8.822	VV	405	4992	0.09%	0.054%
110	8.858	8.822	8.948	VV	46758	504038	9.12%	5.475%
111	8.974	8.948	8.992	VV	331	7271	0.13%	0.079%
112	9.012	8.992	9.037	VV	407	8986	0.16%	0.098%
113	9.049	9.037	9.080	VV	430	8350	0.15%	0.091%
114	9.100	9.080	9.143	VV	763	16577	0.30%	0.180%
115	9.163	9.143	9.197	VV	299	5243	0.09%	0.057%
116	9.217	9.197	9.237	VV	316	4135	0.07%	0.045%
117	9.284	9.237	9.304	VV	916	15868	0.29%	0.172%
118	9.324	9.304	9.336	VV	724	9099	0.16%	0.099%
119	9.360	9.336	9.371	VV	671	12007	0.22%	0.130%
120	9.402	9.371	9.456	VV	1563	35681	0.65%	0.388%
121	9.476	9.456	9.501	VV	469	5730	0.10%	0.062%
122	9.525	9.501	9.551	VV	299	4085	0.07%	0.044%
123	9.575	9.551	9.622	VV	216	5991	0.11%	0.065%
124	9.631	9.622	9.657	VV	154	2469	0.04%	0.027%
125	9.691	9.657	9.731	VV	372	8417	0.15%	0.091%
126	9.756	9.731	9.798	VV	718	12005	0.22%	0.130%
127	9.809	9.798	9.837	VV	216	3415	0.06%	0.037%
128	9.854	9.837	9.875	VV	193	2780	0.05%	0.030%
129	9.896	9.875	9.922	VV	399	5362	0.10%	0.058%
130	9.950	9.922	9.991	VV	466	7065	0.13%	0.077%
131	10.007	9.991	10.020	VV	129	1415	0.03%	0.015%
132	10.039	10.020	10.065	VV	141	1858	0.03%	0.020%
133	10.090	10.065	10.133	PV	282	4864	0.09%	0.053%
134	10.139	10.133	10.145	VV	100	578	0.01%	0.006%
135	10.171	10.145	10.198	VV	1309	15957	0.29%	0.173%
136	10.209	10.198	10.225	VV	92	1108	0.02%	0.012%
137	10.253	10.225	10.328	VV	235	10304	0.19%	0.112%
138	10.342	10.328	10.403	VV	190	3247	0.06%	0.035%
139	10.453	10.403	10.471	PV	165	3622	0.07%	0.039%
140	10.493	10.471	10.511	VV	262	4523	0.08%	0.049%
141	10.520	10.511	10.534	VV	242	2495	0.05%	0.027%

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142	10.566	10.534	10.588	VV	425	8959	0.16%	0.097%
143	10.605	10.588	10.628	VV	331	5881	0.11%	0.064%
144	10.646	10.628	10.671	VV	268	5555	0.10%	0.060%
145	10.692	10.671	10.721	VV	317	6208	0.11%	0.067%
146	10.730	10.721	10.748	VV	147	1931	0.03%	0.021%
147	10.778	10.748	10.788	VV	328	5167	0.09%	0.056%
148	10.803	10.788	10.829	VV	281	5788	0.10%	0.063%
149	10.856	10.829	10.880	VV	434	9898	0.18%	0.108%
150	10.914	10.880	10.951	VV	674	15853	0.29%	0.172%
151	10.972	10.951	11.018	VV	393	12414	0.22%	0.135%
152	11.044	11.018	11.068	VV	824	14877	0.27%	0.162%
153	11.093	11.068	11.148	VV	237	8643	0.16%	0.094%
154	11.169	11.148	11.215	VV	173	5004	0.09%	0.054%
155	11.233	11.215	11.268	VV	238	5380	0.10%	0.058%
156	11.283	11.268	11.322	VV	236	5959	0.11%	0.065%
157	11.343	11.322	11.359	VV	391	5868	0.11%	0.064%
158	11.372	11.359	11.392	VV	229	2684	0.05%	0.029%
159	11.420	11.392	11.491	VV	208	5495	0.10%	0.060%
160	11.551	11.491	11.581	VV	3890	52038	0.94%	0.565%
161	11.624	11.581	11.655	VV	2399	35044	0.63%	0.381%
162	11.714	11.655	11.754	VV	1287	22447	0.41%	0.244%
163	11.773	11.754	11.800	VV	162	1865	0.03%	0.020%
164	11.835	11.800	11.877	PV	162	3461	0.06%	0.038%
165	11.932	11.877	11.958	VV	249	7039	0.13%	0.076%
166	11.974	11.958	11.992	VV	273	4484	0.08%	0.049%
167	12.014	11.992	12.055	VV	429	9868	0.18%	0.107%
168	12.076	12.055	12.123	VV	440	10017	0.18%	0.109%
169	12.142	12.123	12.172	VV	126	2369	0.04%	0.026%
170	12.189	12.172	12.197	VV	153	1772	0.03%	0.019%
171	12.287	12.197	12.309	VV	638	23341	0.42%	0.254%
172	12.337	12.309	12.364	VV	329	8072	0.15%	0.088%
173	12.384	12.364	12.407	VV	273	4980	0.09%	0.054%
174	12.428	12.407	12.441	VV	341	5216	0.09%	0.057%
175	12.448	12.441	12.469	VV	265	3839	0.07%	0.042%
176	12.512	12.469	12.557	VV	606	17838	0.32%	0.194%
177	12.576	12.557	12.603	VV	383	7183	0.13%	0.078%
178	12.620	12.603	12.685	VV	326	10244	0.19%	0.111%
179	12.706	12.685	12.722	VV	290	5028	0.09%	0.055%
180	12.744	12.722	12.763	VV	520	8734	0.16%	0.095%
181	12.796	12.763	12.840	VV	1346	23223	0.42%	0.252%
182	12.874	12.840	12.903	VV	745	12057	0.22%	0.131%
183	12.935	12.903	12.961	VV	1458	19590	0.35%	0.213%
184	12.973	12.961	12.978	VV	164	1540	0.03%	0.017%
185	13.003	12.978	13.026	VV	321	6073	0.11%	0.066%
186	13.052	13.026	13.122	VV	351	8500	0.15%	0.092%
187	13.131	13.122	13.171	PV	103	1299	0.02%	0.014%
188	13.222	13.171	13.242	VV	218	5761	0.10%	0.063%
189	13.261	13.242	13.281	VV	161	2781	0.05%	0.030%
190	13.317	13.281	13.333	VV	172	4270	0.08%	0.046%
191	13.385	13.333	13.423	VV	457393	5528829	100.00%	60.061%
192	13.446	13.423	13.471	VV	320	7190	0.13%	0.078%
193	13.487	13.471	13.501	VV	218	2942	0.05%	0.032%
194	13.549	13.501	13.582	VV	503	13331	0.24%	0.145%

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195	13.603	13.582	13.642	VV	302	8666	0.16%	0.094%
196	13.652	13.642	13.665	VV	163	2005	0.04%	0.022%
197	13.671	13.665	13.702	VV	220	3781	0.07%	0.041%
198	13.754	13.702	13.798	VV	299	11690	0.21%	0.127%
199	13.824	13.798	13.874	VV	371	10532	0.19%	0.114%
200	13.895	13.874	13.914	VV	163	2972	0.05%	0.032%
201	13.929	13.914	13.940	VV	193	2381	0.04%	0.026%
202	13.992	13.940	14.030	VV	326	11097	0.20%	0.121%
203	14.051	14.030	14.060	VV	161	2563	0.05%	0.028%
204	14.086	14.060	14.112	VV	650	10318	0.19%	0.112%
205	14.138	14.112	14.180	VV	1315	18773	0.34%	0.204%
206	14.194	14.180	14.208	VV	130	1713	0.03%	0.019%
207	14.224	14.208	14.264	VV	119	2459	0.04%	0.027%
208	14.275	14.264	14.310	VV	71	787	0.01%	0.009%
209	14.320	14.310	14.331	PV	32	409	0.01%	0.004%
210	14.354	14.331	14.396	VV	213	5515	0.10%	0.060%
211	14.434	14.396	14.450	VV	190	4365	0.08%	0.047%
212	14.469	14.450	14.495	VV	179	3624	0.07%	0.039%
213	14.504	14.495	14.513	VV	140	1123	0.02%	0.012%
214	14.527	14.513	14.548	VV	129	2466	0.04%	0.027%
215	14.576	14.548	14.681	VV	1331	26112	0.47%	0.284%
216	14.704	14.681	14.738	VV	473	7373	0.13%	0.080%
217	14.762	14.738	14.777	VV	179	3221	0.06%	0.035%
218	14.794	14.777	14.808	VV	193	3106	0.06%	0.034%
219	14.847	14.808	14.871	VV	234	7725	0.14%	0.084%
220	14.877	14.871	14.886	VV	210	1673	0.03%	0.018%
221	14.900	14.886	14.940	VV	211	5594	0.10%	0.061%
222	14.962	14.940	14.972	VV	243	3357	0.06%	0.036%
223	14.994	14.972	15.007	VV	223	4002	0.07%	0.043%
224	15.021	15.007	15.040	VV	220	4087	0.07%	0.044%
225	15.053	15.040	15.068	VV	293	3723	0.07%	0.040%
226	15.081	15.068	15.128	VV	213	5585	0.10%	0.061%
227	15.136	15.128	15.148	VV	149	1427	0.03%	0.016%
228	15.201	15.148	15.220	VV	536	10361	0.19%	0.113%
229	15.245	15.220	15.289	VV	1319	21436	0.39%	0.233%
230	15.297	15.289	15.341	VV	144	3109	0.06%	0.034%
231	15.371	15.341	15.380	VV	99	1556	0.03%	0.017%
232	15.418	15.380	15.465	VV	230	6829	0.12%	0.074%
233	15.487	15.465	15.535	VV	170	4357	0.08%	0.047%
234	15.556	15.535	15.588	VV	146	2485	0.04%	0.027%
235	15.606	15.588	15.615	VV	92	1075	0.02%	0.012%
236	15.632	15.615	15.640	VV	139	1624	0.03%	0.018%
237	15.674	15.640	15.715	VV	231	6691	0.12%	0.073%
238	15.769	15.715	15.801	VV	766	15144	0.27%	0.165%
239	15.819	15.801	15.848	VV	169	3433	0.06%	0.037%
240	15.909	15.848	15.928	VV	160	4503	0.08%	0.049%
241	15.949	15.928	15.985	VV	222	5188	0.09%	0.056%
242	16.010	15.985	16.025	VV	159	3076	0.06%	0.033%
243	16.078	16.025	16.119	VV	430	10628	0.19%	0.115%
244	16.124	16.119	16.193	VV	212	6337	0.11%	0.069%
245	16.232	16.193	16.246	VV	408	6094	0.11%	0.066%
246	16.270	16.246	16.300	VV	1425	21785	0.39%	0.237%

247	16.311	16.300	16.348	VV	192	3433	0.06%	0.037%
248	16.359	16.348	16.401	VV	114	1596	0.03%	0.017%
249	16.438	16.401	16.470	VV	163	4767	0.09%	0.052%
250	16.478	16.470	16.535	VV	158	3666	0.07%	0.040%
251	16.583	16.535	16.620	PV	168	4977	0.09%	0.054%
252	16.633	16.620	16.650	VV	136	1951	0.04%	0.021%
253	16.667	16.650	16.699	VV	125	2764	0.05%	0.030%
254	16.755	16.699	16.817	VV	1156	22840	0.41%	0.248%
255	16.833	16.817	16.890	VV	188	5971	0.11%	0.065%
256	16.919	16.890	16.938	VV	265	5908	0.11%	0.064%
257	16.947	16.938	17.031	VV	210	8055	0.15%	0.088%
258	17.067	17.031	17.082	VV	325	7535	0.14%	0.082%
259	17.094	17.082	17.145	VV	268	8153	0.15%	0.089%
260	17.150	17.145	17.164	VV	233	1941	0.04%	0.021%
261	17.189	17.164	17.200	VV	385	5580	0.10%	0.061%
262	17.223	17.200	17.281	VV	1740	26516	0.48%	0.288%
263	17.296	17.281	17.313	VV	93	1243	0.02%	0.014%
264	17.375	17.313	17.408	VV	159	4966	0.09%	0.054%
265	17.442	17.408	17.478	VV	176	3826	0.07%	0.042%
266	17.534	17.478	17.595	VV	162	6414	0.12%	0.070%
267	17.609	17.595	17.619	VV	69	721	0.01%	0.008%
268	17.675	17.619	17.745	PV	1767	26707	0.48%	0.290%
269	17.785	17.745	17.861	PV	143	6206	0.11%	0.067%
270	17.876	17.861	17.893	VV	65	1046	0.02%	0.011%
271	17.938	17.893	17.987	VV	192	7490	0.14%	0.081%
272	18.019	17.987	18.031	VV	85	1858	0.03%	0.020%
273	18.114	18.031	18.141	VV	1843	31440	0.57%	0.342%
274	18.162	18.141	18.207	VV	121	3122	0.06%	0.034%
275	18.267	18.207	18.311	VV	204	7121	0.13%	0.077%
276	18.322	18.311	18.368	VV	44	678	0.01%	0.007%
277	18.393	18.368	18.421	PV	213	4207	0.08%	0.046%
278	18.440	18.421	18.455	VV	116	1486	0.03%	0.016%
279	18.498	18.455	18.511	VV	193	3344	0.06%	0.036%
280	18.537	18.511	18.590	VV	2103	31188	0.56%	0.339%
281	18.627	18.590	18.655	PV	161	3402	0.06%	0.037%
282	18.737	18.655	18.777	VV	164	5800	0.10%	0.063%
283	18.806	18.777	18.831	VV	207	4181	0.08%	0.045%
284	18.849	18.831	18.894	VV	86	2283	0.04%	0.025%
285	18.948	18.894	19.015	VV	1847	32370	0.59%	0.352%
286	19.026	19.015	19.038	PV	80	526	0.01%	0.006%
287	19.111	19.038	19.148	PV	149	6893	0.12%	0.075%
288	19.155	19.148	19.165	VV	48	645	0.01%	0.007%
289	19.205	19.165	19.227	VV	158	3251	0.06%	0.035%
290	19.248	19.227	19.260	VV	106	1282	0.02%	0.014%
291	19.347	19.260	19.428	PV	1350	23880	0.43%	0.259%
292	19.524	19.428	19.539	PV	174	7152	0.13%	0.078%
293	19.549	19.539	19.569	VV	103	1586	0.03%	0.017%
294	19.605	19.569	19.621	VV	207	4033	0.07%	0.044%
295	19.639	19.621	19.653	VV	167	2392	0.04%	0.026%
296	19.734	19.653	19.769	VV	1462	30547	0.55%	0.332%
297	19.782	19.769	19.801	VV	234	3681	0.07%	0.040%
298	19.990	19.801	20.007	VV	414	29261	0.53%	0.318%
299	20.037	20.007	20.073	VV	387	11847	0.21%	0.129%

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300	20.110	20.073	20.144	VV	1103	23519	0.43%	0.255%
301	20.348	20.144	20.356	VV	561	50215	0.91%	0.546%
302	20.476	20.356	20.505	VV	1704	67032	1.21%	0.728%
303	20.538	20.505	20.555	VV	846	23275	0.42%	0.253%
304	20.626	20.555	20.637	VV	872	38781	0.70%	0.421%
305	20.740	20.637	20.797	VV	1363	108874	1.97%	1.183%
306	20.837	20.797	20.878	VV	1481	58047	1.05%	0.631%
307	21.011	20.878	21.060	VV	1404	131419	2.38%	1.428%
308	21.152	21.060	21.166	VV	1306	81121	1.47%	0.881%
309	21.224	21.166	21.263	VV	2042	86993	1.57%	0.945%
310	21.329	21.263	21.339	VV	1197	53919	0.98%	0.586%
311	21.348	21.339	21.378	VV	1172	26085	0.47%	0.283%
312	21.396	21.378	21.421	VV	1089	27341	0.49%	0.297%
313	21.433	21.421	21.448	VV	1050	16092	0.29%	0.175%
314	21.455	21.448	21.468	VV	1000	11685	0.21%	0.127%
315	21.477	21.468	21.491	VV	992	13456	0.24%	0.146%
316	21.497	21.491	21.522	VV	958	16741	0.30%	0.182%
317	21.567	21.522	21.629	VV	923	53799	0.97%	0.584%
318	21.664	21.629	21.714	VV	860	37659	0.68%	0.409%
319	21.724	21.714	21.735	VV	630	7590	0.14%	0.082%
320	21.747	21.735	21.824	VV	634	29503	0.53%	0.320%
321	21.832	21.824	21.871	VV	542	13360	0.24%	0.145%
322	21.885	21.871	21.947	VV	491	18985	0.34%	0.206%
323	22.013	21.947	22.025	VV	385	17199	0.31%	0.187%
324	22.047	22.025	22.078	VV	418	11035	0.20%	0.120%
325	22.159	22.078	22.229	VV	1134	46707	0.84%	0.507%
326	22.238	22.229	22.283	VV	272	6077	0.11%	0.066%
327	22.305	22.283	22.327	VV	175	3447	0.06%	0.037%
328	22.339	22.327	22.384	VV	130	3183	0.06%	0.035%
329	22.397	22.384	22.415	VV	97	1027	0.02%	0.011%
330	22.422	22.415	22.431	PV	75	311	0.01%	0.003%

Sum of corrected areas: 9205381

Aliphatic EPH 011425.M Wed Jan 29 03:44:22 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	57
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 20:37	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.67	U	1	0.67	1.75	mg/kg	FG015193.D
Aliphatic C12-C16	Aliphatic C12-C16	0.63	J	1	0.42	1.17	mg/kg	FG015193.D
Aliphatic C16-C21	Aliphatic C16-C21	2.71		1	0.53	1.75	mg/kg	FG015193.D
Aliphatic C21-C28	Aliphatic C21-C28	1.40	U	1	1.40	2.34	mg/kg	FG015193.D
Aliphatic C28-C40	Aliphatic C28-C40	3.15	U	1	3.15	3.51	mg/kg	FG015193.D
Aromatic C10-C12	Aromatic C10-C12	0.53	U	1	0.53	1.17	mg/kg	FF015353.D
Aromatic C12-C16	Aromatic C12-C16	3.47		1	0.60	1.75	mg/kg	FF015353.D
Aromatic C16-C21	Aromatic C16-C21	5.28		1	1.68	2.92	mg/kg	FF015353.D
Aromatic C21-C36	Aromatic C21-C36	3.51	U	1	3.51	4.67	mg/kg	FF015353.D
Total AliphaticEPH	Total AliphaticEPH	6.16	U		6.16	10.5	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.75	J		6.31	10.5	mg/kg	
Total EPH	Total EPH	12.5	U		12.5	21.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	57
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 20:37	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.67	U	1	0.67	1.75	mg/kg	FG015193.D
Aliphatic C12-C16	Aliphatic C12-C16	0.63	J	1	0.42	1.17	mg/kg	FG015193.D
Aliphatic C16-C21	Aliphatic C16-C21	2.71		1	0.53	1.75	mg/kg	FG015193.D
Aliphatic C21-C28	Aliphatic C21-C28	1.40	U	1	1.40	2.34	mg/kg	FG015193.D
Aliphatic C28-C40	Aliphatic C28-C40	3.15	U	1	3.15	3.51	mg/kg	FG015193.D
Aromatic C10-C12	Aromatic C10-C12	0.53	U	1	0.53	1.17	mg/kg	FF015353.D
Aromatic C12-C16	Aromatic C12-C16	3.47		1	0.60	1.75	mg/kg	FF015353.D
Aromatic C16-C21	Aromatic C16-C21	5.28		1	1.68	2.92	mg/kg	FF015353.D
Aromatic C21-C36	Aromatic C21-C36	3.51	U	1	3.51	4.67	mg/kg	FF015353.D
Total AliphaticEPH	Total AliphaticEPH	6.16	U		6.16	10.5	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.75	J		6.31	10.5	mg/kg	
Total EPH	Total EPH	12.5	U		12.5	21.0	mg/kg	

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	57
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 20:37	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.67	U	1	0.67	1.75	mg/kg	FG015193.D
Aliphatic C12-C16	Aliphatic C12-C16	0.63	J	1	0.42	1.17	mg/kg	FG015193.D
Aliphatic C16-C21	Aliphatic C16-C21	2.71		1	0.53	1.75	mg/kg	FG015193.D
Aliphatic C21-C28	Aliphatic C21-C28	1.40	U	1	1.40	2.34	mg/kg	FG015193.D
Aliphatic C28-C40	Aliphatic C28-C40	3.15	U	1	3.15	3.51	mg/kg	FG015193.D
Aromatic C10-C12	Aromatic C10-C12	0.53	U	1	0.53	1.17	mg/kg	FF015353.D
Aromatic C12-C16	Aromatic C12-C16	3.47		1	0.60	1.75	mg/kg	FF015353.D
Aromatic C16-C21	Aromatic C16-C21	5.28		1	1.68	2.92	mg/kg	FF015353.D
Aromatic C21-C36	Aromatic C21-C36	3.51	U	1	3.51	4.67	mg/kg	FF015353.D
Total AliphaticEPH	Total AliphaticEPH	6.16	U		6.16	10.5	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.75	J		6.31	10.5	mg/kg	
Total EPH	Total EPH	12.5	U		12.5	21.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	57
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015353.D	1	01/28/25	01/29/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.53	U	0.53	1.17	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.47		0.60	1.75	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.28		1.68	2.92	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.51	U	3.51	4.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.6		40 - 140	95%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	48.2		40 - 140	96%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.3		40 - 140	52%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-02	Acq On:	29 Jan 2025 09:48
Client Sample ID:	B-110-SB02	Operator:	YP\AJ
Data file:	FF015353.D	Misc:	
Instrument:	FID_F	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.500	6.368	279813	1.745	200	ug/ml
Aromatic C12-C16	6.369	9.062	4757063	29.671	300	ug/ml
Aromatic C16-C21	9.063	13.376	7074773	45.153	500	ug/ml
Aromatic C21-C36	13.377	18.826	3842752	26.394	800	ug/ml
Aromatic EPH	4.500	18.826	15954401	102.962		ug/ml
2-Bromonaphthalene (SURR)	7.989	7.989	6282099	47.59		ug/ml
2-Flurobiphenyl (SURR)	8.862	8.862	4067153	48.18		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	4518606	26.25		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015353.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 09:48
Operator : YP\AJ
Sample : Q1194-02
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-110-SB02

Integration File: autoint1.e
Quant Time: Jan 30 02:44:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.989	6282099	47.591 ug/ml
Spiked Amount 50.000		Recovery =	95.18%
6) S 2-Flurobiphenyl (SURR)	8.862	4067153	48.184 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	96.37%
11) S ortho-Terphenyl (SURR)	11.927	4518606	26.249 ug/ml
Spiked Amount 50.000		Recovery =	52.50%
Target Compounds			

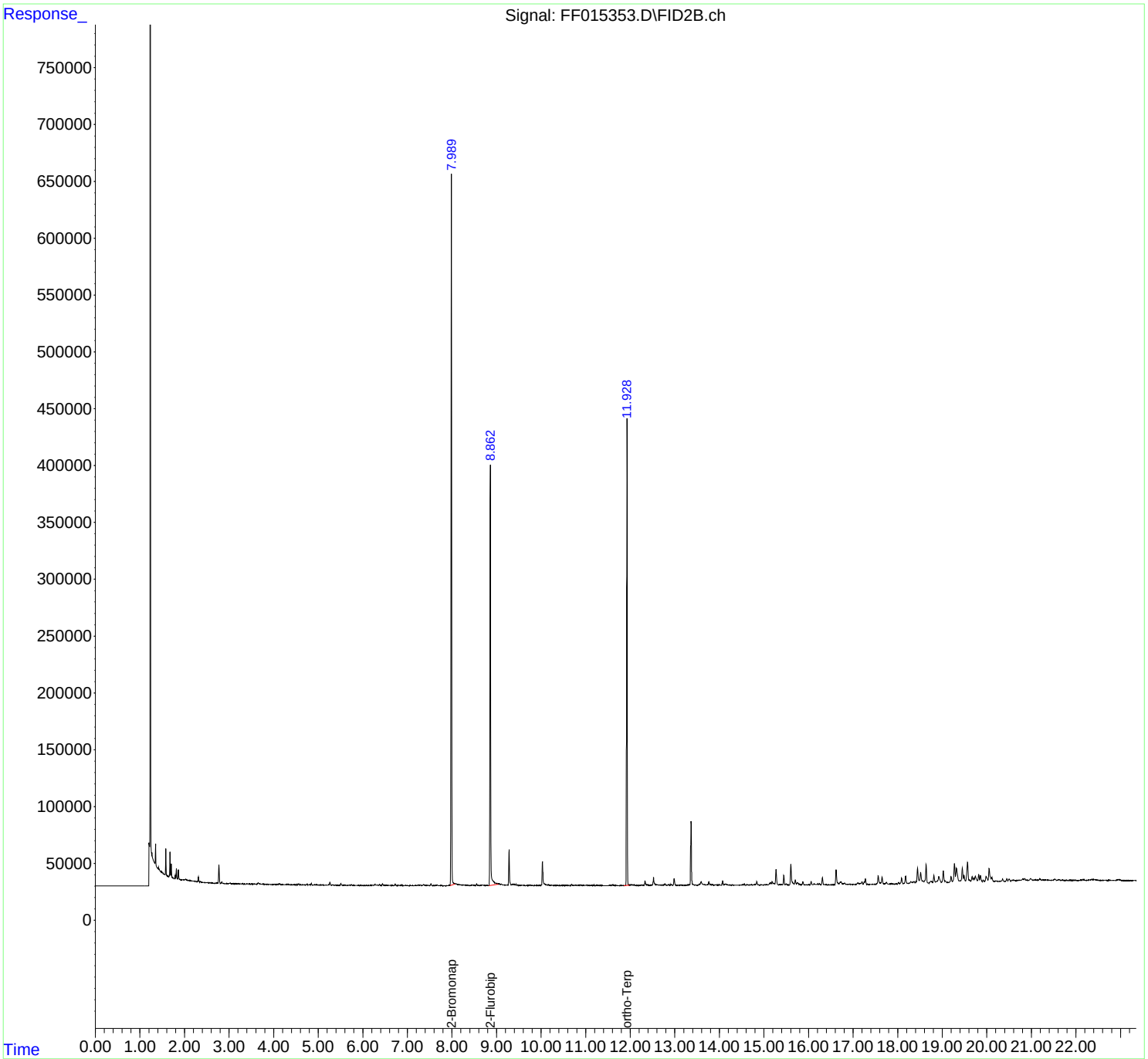
(f)=RT Delta > 1/2 Window (m)=manual int.

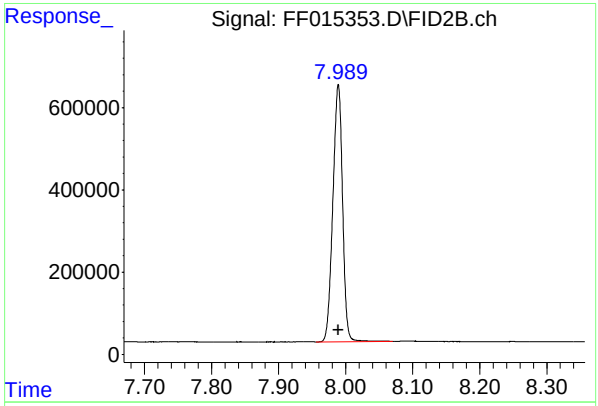
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015353.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 09:48
Operator : YP\AJ
Sample : Q1194-02
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-110-SB02

Integration File: autoint1.e
Quant Time: Jan 30 02:44:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

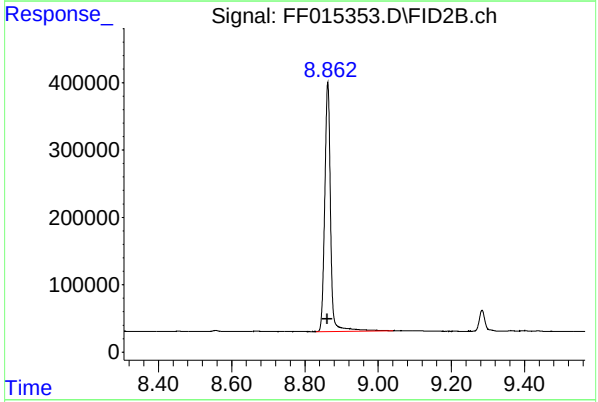




#4 2-Bromonaphthalene (SURR)

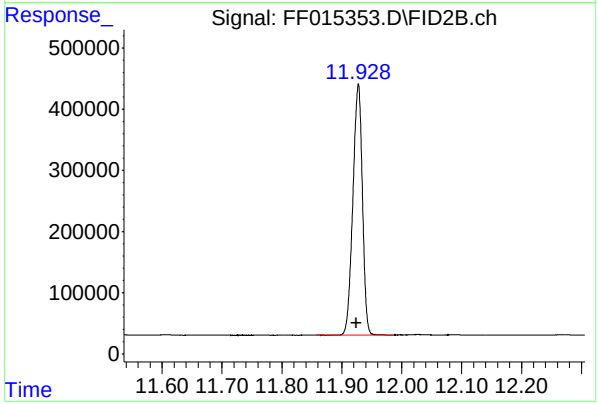
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 6282099
Conc: 47.59 ug/ml

Instrument :
FID_F
ClientSampleId :
B-110-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 4067153
Conc: 48.18 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.003 min
Response: 4518606
Conc: 26.25 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015353.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 09:48
Sample : Q1194-02
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.444	4.429	4.490	VV	163	3468	0.06%	0.016%
2	4.507	4.490	4.537	VV	286	4858	0.08%	0.022%
3	4.561	4.537	4.583	VV	1019	12355	0.20%	0.056%
4	4.597	4.583	4.626	VV	212	3778	0.06%	0.017%
5	4.639	4.626	4.653	VV	198	2496	0.04%	0.011%
6	4.686	4.653	4.715	VV	448	6985	0.11%	0.031%
7	4.749	4.715	4.781	PV	984	15590	0.25%	0.070%
8	4.785	4.781	4.797	VV	190	1362	0.02%	0.006%
9	4.811	4.797	4.828	VV	704	7952	0.13%	0.036%
10	4.845	4.828	4.866	VV	1394	14975	0.24%	0.067%
11	4.870	4.866	4.882	VV	194	1639	0.03%	0.007%
12	4.936	4.882	4.962	VV	489	14506	0.23%	0.065%
13	4.973	4.962	5.036	VV	442	11512	0.18%	0.052%
14	5.053	5.036	5.097	VV	483	8397	0.13%	0.038%
15	5.117	5.097	5.129	VV	218	2884	0.05%	0.013%
16	5.135	5.129	5.153	VV	147	1334	0.02%	0.006%
17	5.175	5.153	5.201	VV	237	3488	0.06%	0.016%
18	5.237	5.212	5.245	VV	482	5723	0.09%	0.026%
19	5.263	5.245	5.297	VV	2813	34114	0.54%	0.153%
20	5.324	5.297	5.350	VV	522	7736	0.12%	0.035%
21	5.383	5.362	5.407	PV	232	3241	0.05%	0.015%
22	5.433	5.429	5.454	VV	110	1006	0.02%	0.005%
23	5.468	5.454	5.489	VV	184	2359	0.04%	0.011%
24	5.507	5.489	5.547	VV	1674	21938	0.35%	0.099%
25	5.552	5.547	5.570	VV	225	1754	0.03%	0.008%
26	5.580	5.570	5.587	VV	164	1210	0.02%	0.005%
27	5.598	5.587	5.627	VV	116	1914	0.03%	0.009%
28	5.665	5.651	5.680	VV	197	2015	0.03%	0.009%
29	5.700	5.680	5.724	VV	401	5706	0.09%	0.026%
30	5.742	5.724	5.764	VV	815	9887	0.16%	0.044%
31	5.806	5.764	5.819	VV	260	5008	0.08%	0.023%
32	5.831	5.827	5.855	VV	114	1208	0.02%	0.005%
33	5.875	5.870	5.902	VV	150	2023	0.03%	0.009%
34	5.960	5.932	5.985	PV	223	3663	0.06%	0.016%
35	6.010	5.985	6.026	VV	187	2758	0.04%	0.012%
36	6.077	6.062	6.124	VV	220	4748	0.08%	0.021%

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37	6.138	6.124	6.152	VV	125	1757	0.03%	0.008%
38	6.190	6.152	6.209	VV	283	7416	0.12%	0.033%
39	6.220	6.209	6.225	VV	384	3354	0.05%	0.015%
40	6.231	6.225	6.248	VV	387	4210	0.07%	0.019%
41	6.274	6.248	6.320	VV	1199	23466	0.37%	0.105%
42	6.326	6.320	6.355	VV	447	7488	0.12%	0.034%
43	6.374	6.355	6.419	VV	745	14881	0.24%	0.067%
44	6.444	6.419	6.472	VV	1565	21821	0.35%	0.098%
45	6.500	6.472	6.505	VV	406	5240	0.08%	0.024%
46	6.517	6.505	6.555	VV	385	7023	0.11%	0.032%
47	6.574	6.555	6.589	VV	511	6304	0.10%	0.028%
48	6.593	6.589	6.600	VV	220	1186	0.02%	0.005%
49	6.607	6.600	6.649	VV	236	4833	0.08%	0.022%
50	6.654	6.649	6.683	VV	137	2209	0.04%	0.010%
51	6.690	6.683	6.707	VV	114	1362	0.02%	0.006%
52	6.728	6.707	6.759	VV	1580	19658	0.31%	0.088%
53	6.767	6.759	6.792	VV	263	3271	0.05%	0.015%
54	6.812	6.792	6.833	VV	500	6927	0.11%	0.031%
55	6.849	6.833	6.867	VV	339	4318	0.07%	0.019%
56	6.882	6.867	6.902	VV	822	9347	0.15%	0.042%
57	6.913	6.902	6.939	VV	266	3245	0.05%	0.015%
58	6.957	6.939	6.984	PV	528	5592	0.09%	0.025%
59	7.005	6.984	7.012	VV	173	1689	0.03%	0.008%
60	7.060	7.032	7.091	PV	210	3697	0.06%	0.017%
61	7.116	7.091	7.130	VV	293	3880	0.06%	0.017%
62	7.137	7.130	7.149	VV	148	1126	0.02%	0.005%
63	7.185	7.159	7.214	VV	491	8092	0.13%	0.036%
64	7.239	7.214	7.274	VV	643	13921	0.22%	0.063%
65	7.288	7.274	7.334	VV	619	13989	0.22%	0.063%
66	7.367	7.334	7.420	VV	1247	25248	0.40%	0.113%
67	7.449	7.420	7.468	VV	572	9507	0.15%	0.043%
68	7.475	7.468	7.498	VV	296	3280	0.05%	0.015%
69	7.531	7.498	7.566	VV	1852	26120	0.41%	0.117%
70	7.590	7.566	7.598	VV	372	5208	0.08%	0.023%
71	7.616	7.598	7.630	VV	383	5695	0.09%	0.026%
72	7.637	7.630	7.653	VV	377	3961	0.06%	0.018%
73	7.673	7.653	7.699	VV	789	10809	0.17%	0.049%
74	7.711	7.699	7.725	VV	192	1940	0.03%	0.009%
75	7.741	7.725	7.750	VV	263	3150	0.05%	0.014%
76	7.767	7.750	7.786	VV	377	4510	0.07%	0.020%
77	7.790	7.786	7.830	VV	90	1275	0.02%	0.006%
78	7.843	7.830	7.867	VV	137	1549	0.02%	0.007%
79	7.889	7.867	7.899	PV	155	1535	0.02%	0.007%
80	7.940	7.899	7.956	VV	698	9113	0.14%	0.041%
81	7.989	7.956	8.040	VV	626012	6300714	100.00%	28.307%
82	8.048	8.040	8.071	VV	2348	37749	0.60%	0.170%
83	8.091	8.071	8.131	VV	1840	55361	0.88%	0.249%
84	8.136	8.131	8.154	VV	1111	14624	0.23%	0.066%
85	8.162	8.154	8.190	VV	986	18654	0.30%	0.084%
86	8.199	8.190	8.227	VV	871	15788	0.25%	0.071%
87	8.249	8.227	8.280	VV	1013	22392	0.36%	0.101%
88	8.284	8.280	8.292	VV	556	4111	0.07%	0.018%
89	8.305	8.292	8.322	VV	712	10162	0.16%	0.046%

90	8.338	8.322	8.365	VV	560	11734	0.19%	0.053%
91	8.377	8.365	8.389	VV	406	5115	0.08%	0.023%
92	8.395	8.389	8.419	VV	364	5781	0.09%	0.026%
93	8.456	8.419	8.480	VV	672	16597	0.26%	0.075%
94	8.498	8.480	8.531	VV	417	9706	0.15%	0.044%
95	8.556	8.531	8.577	VV	1854	23194	0.37%	0.104%
96	8.582	8.577	8.598	VV	390	4068	0.06%	0.018%
97	8.605	8.598	8.613	VV	269	2208	0.04%	0.010%
98	8.668	8.613	8.687	VV	752	19583	0.31%	0.088%
99	8.697	8.687	8.727	VV	570	10312	0.16%	0.046%
100	8.753	8.727	8.772	VV	432	7100	0.11%	0.032%
101	8.790	8.772	8.820	VV	502	7858	0.12%	0.035%
102	8.863	8.820	9.035	VV	370313	4159151	66.01%	18.686%
103	9.036	9.035	9.040	VV	1529	4433	0.07%	0.020%
104	9.044	9.040	9.057	VV	1540	14871	0.24%	0.067%
105	9.064	9.057	9.080	VV	1514	20348	0.32%	0.091%
106	9.097	9.080	9.147	VV	1429	45618	0.72%	0.205%
107	9.158	9.147	9.187	VV	752	15917	0.25%	0.072%
108	9.194	9.187	9.198	VV	639	4158	0.07%	0.019%
109	9.210	9.198	9.241	VV	707	15428	0.24%	0.069%
110	9.284	9.241	9.331	VV	31859	372723	5.92%	1.675%
111	9.336	9.331	9.350	VV	826	9144	0.15%	0.041%
112	9.363	9.350	9.377	VV	1536	19190	0.30%	0.086%
113	9.400	9.377	9.420	VV	1511	28668	0.45%	0.129%
114	9.437	9.420	9.461	VV	1242	19538	0.31%	0.088%
115	9.473	9.461	9.505	VV	620	9696	0.15%	0.044%
116	9.518	9.505	9.537	VV	411	5629	0.09%	0.025%
117	9.568	9.537	9.590	VV	592	11362	0.18%	0.051%
118	9.613	9.590	9.647	VV	427	10311	0.16%	0.046%
119	9.677	9.647	9.706	VV	327	8622	0.14%	0.039%
120	9.713	9.706	9.729	VV	241	2483	0.04%	0.011%
121	9.751	9.729	9.808	VV	654	13859	0.22%	0.062%
122	9.829	9.808	9.871	VV	338	7917	0.13%	0.036%
123	9.889	9.871	9.931	VV	444	7787	0.12%	0.035%
124	9.944	9.931	9.974	VV	306	5089	0.08%	0.023%
125	10.000	9.974	10.012	VV	715	9801	0.16%	0.044%
126	10.032	10.012	10.146	VV	21320	321276	5.10%	1.443%
127	10.163	10.146	10.219	VV	1131	24703	0.39%	0.111%
128	10.234	10.219	10.260	VV	479	9317	0.15%	0.042%
129	10.264	10.260	10.285	VV	347	3701	0.06%	0.017%
130	10.290	10.285	10.312	VV	256	3109	0.05%	0.014%
131	10.315	10.312	10.325	VV	280	1634	0.03%	0.007%
132	10.331	10.325	10.335	VV	297	1444	0.02%	0.006%
133	10.340	10.335	10.375	VV	277	3929	0.06%	0.018%
134	10.394	10.375	10.422	VV	335	6043	0.10%	0.027%
135	10.433	10.422	10.439	VV	220	1647	0.03%	0.007%
136	10.443	10.439	10.453	VV	247	1531	0.02%	0.007%
137	10.497	10.453	10.517	VV	434	10245	0.16%	0.046%
138	10.521	10.517	10.535	VV	277	2405	0.04%	0.011%
139	10.556	10.535	10.574	VV	451	7371	0.12%	0.033%
140	10.591	10.574	10.612	VV	465	7481	0.12%	0.034%
141	10.618	10.612	10.640	VV	334	4859	0.08%	0.022%

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142	10.645	10.640	10.667	VV	336	3725	0.06%	0.017%
143	10.685	10.667	10.706	VV	1084	13159	0.21%	0.059%
144	10.722	10.706	10.742	VV	427	5642	0.09%	0.025%
145	10.766	10.742	10.784	VV	747	11051	0.18%	0.050%
146	10.790	10.784	10.815	VV	366	5709	0.09%	0.026%
147	10.835	10.815	10.864	VV	444	10784	0.17%	0.048%
148	10.887	10.864	10.893	VV	600	8570	0.14%	0.039%
149	10.898	10.893	10.940	VV	526	9419	0.15%	0.042%
150	10.961	10.940	10.974	VV	485	6022	0.10%	0.027%
151	10.977	10.974	10.984	VV	303	1752	0.03%	0.008%
152	10.987	10.984	10.996	VV	284	1975	0.03%	0.009%
153	11.031	10.996	11.070	VV	677	16564	0.26%	0.074%
154	11.096	11.070	11.105	VV	263	4331	0.07%	0.019%
155	11.125	11.105	11.151	VV	374	7465	0.12%	0.034%
156	11.171	11.151	11.195	VV	405	7974	0.13%	0.036%
157	11.200	11.195	11.211	VV	306	2240	0.04%	0.010%
158	11.217	11.211	11.236	VV	269	3891	0.06%	0.017%
159	11.253	11.236	11.257	VV	426	4481	0.07%	0.020%
160	11.273	11.257	11.313	VV	573	12399	0.20%	0.056%
161	11.332	11.313	11.354	VV	428	7060	0.11%	0.032%
162	11.359	11.354	11.371	VV	223	1945	0.03%	0.009%
163	11.375	11.371	11.422	VV	180	3517	0.06%	0.016%
164	11.430	11.422	11.437	VV	139	1051	0.02%	0.005%
165	11.442	11.437	11.462	VV	165	1120	0.02%	0.005%
166	11.475	11.462	11.500	PV	170	2047	0.03%	0.009%
167	11.537	11.514	11.560	VV	714	9508	0.15%	0.043%
168	11.582	11.560	11.590	VV	548	6060	0.10%	0.027%
169	11.605	11.590	11.636	VV	880	12655	0.20%	0.057%
170	11.658	11.636	11.667	VV	254	2744	0.04%	0.012%
171	11.684	11.667	11.722	VV	422	8475	0.13%	0.038%
172	11.732	11.722	11.752	PV	113	1166	0.02%	0.005%
173	11.769	11.752	11.788	VV	246	3135	0.05%	0.014%
174	11.800	11.788	11.828	VV	200	2825	0.04%	0.013%
175	11.854	11.828	11.880	PV	230	3116	0.05%	0.014%
176	11.928	11.880	11.990	VV	409805	4541568	72.08%	20.404%
177	12.026	11.990	12.062	VV	1166	30099	0.48%	0.135%
178	12.089	12.062	12.114	VV	791	15778	0.25%	0.071%
179	12.132	12.114	12.145	VV	301	4236	0.07%	0.019%
180	12.157	12.154	12.167	VV	239	1544	0.02%	0.007%
181	12.174	12.167	12.184	VV	181	1531	0.02%	0.007%
182	12.189	12.184	12.199	VV	189	1393	0.02%	0.006%
183	12.206	12.199	12.212	VV	253	1917	0.03%	0.009%
184	12.216	12.212	12.224	VV	265	1645	0.03%	0.007%
185	12.269	12.224	12.299	VV	725	19598	0.31%	0.088%
186	12.332	12.299	12.356	VV	4146	58750	0.93%	0.264%
187	12.372	12.356	12.394	VV	821	13605	0.22%	0.061%
188	12.406	12.394	12.462	VV	537	14878	0.24%	0.067%
189	12.523	12.462	12.593	VV	7046	135792	2.16%	0.610%
190	12.604	12.593	12.621	VV	853	11709	0.19%	0.053%
191	12.628	12.621	12.652	VV	645	10880	0.17%	0.049%
192	12.658	12.652	12.679	VV	613	8538	0.14%	0.038%
193	12.682	12.679	12.709	VV	503	7817	0.12%	0.035%
194	12.712	12.709	12.729	VV	428	4558	0.07%	0.020%

195	12.736	12.729	12.748	VV	520	5002	0.08%	0.022%
196	12.779	12.748	12.825	VV	1655	32167	0.51%	0.145%
197	12.857	12.825	12.894	VV	865	16748	0.27%	0.075%
198	12.919	12.894	12.945	VV	1196	18250	0.29%	0.082%
199	12.984	12.945	13.029	VV	6054	90745	1.44%	0.408%
200	13.040	13.029	13.094	VV	381	7403	0.12%	0.033%
201	13.104	13.094	13.116	VV	171	1791	0.03%	0.008%
202	13.139	13.116	13.159	VV	741	10482	0.17%	0.047%
203	13.164	13.159	13.176	VV	114	1146	0.02%	0.005%
204	13.199	13.176	13.229	VV	295	5816	0.09%	0.026%
205	13.283	13.256	13.300	VV	620	8872	0.14%	0.040%
206	13.319	13.300	13.333	VV	716	9897	0.16%	0.044%
207	13.365	13.333	13.471	VV	56677	723058	11.48%	3.248%
208	13.477	13.471	13.509	VV	290	4635	0.07%	0.021%
209	13.554	13.509	13.565	VV	1343	23998	0.38%	0.108%
210	13.588	13.565	13.638	VV	3126	75855	1.20%	0.341%
211	13.646	13.638	13.706	VV	917	25086	0.40%	0.113%
212	13.712	13.706	13.717	VV	485	2834	0.04%	0.013%
213	13.727	13.717	13.734	VV	565	5037	0.08%	0.023%
214	13.761	13.734	13.868	VV	3223	78284	1.24%	0.352%
215	13.883	13.868	13.897	VV	360	5324	0.08%	0.024%
216	13.910	13.897	13.915	VV	367	3346	0.05%	0.015%
217	13.940	13.915	13.953	VV	525	8847	0.14%	0.040%
218	13.983	13.953	14.015	VV	563	12251	0.19%	0.055%
219	14.072	14.015	14.100	VV	3888	57075	0.91%	0.256%
220	14.118	14.100	14.129	VV	964	12303	0.20%	0.055%
221	14.144	14.129	14.161	VV	1282	17470	0.28%	0.078%
222	14.175	14.161	14.202	VV	807	11941	0.19%	0.054%
223	14.230	14.211	14.261	VV	428	6435	0.10%	0.029%
224	14.280	14.261	14.300	VV	217	2875	0.05%	0.013%
225	14.317	14.300	14.349	VV	217	4162	0.07%	0.019%
226	14.364	14.359	14.377	VV	151	1449	0.02%	0.007%
227	14.449	14.437	14.480	VV	206	3077	0.05%	0.014%
228	14.514	14.480	14.537	VV	672	12938	0.21%	0.058%
229	14.555	14.537	14.590	VV	852	16928	0.27%	0.076%
230	14.619	14.590	14.660	VV	605	13797	0.22%	0.062%
231	14.681	14.660	14.702	VV	523	7294	0.12%	0.033%
232	14.717	14.702	14.736	VV	370	5637	0.09%	0.025%
233	14.747	14.736	14.765	VV	334	4234	0.07%	0.019%
234	14.787	14.765	14.801	VV	777	11336	0.18%	0.051%
235	14.838	14.801	14.867	VV	3254	52850	0.84%	0.237%
236	14.874	14.867	14.928	VV	326	7128	0.11%	0.032%
237	14.941	14.928	14.968	VV	324	5684	0.09%	0.026%
238	14.971	14.968	14.983	VV	222	1567	0.02%	0.007%
239	15.017	14.983	15.055	VV	515	13918	0.22%	0.063%
240	15.067	15.055	15.084	VV	387	5198	0.08%	0.023%
241	15.147	15.084	15.163	VV	2281	55080	0.87%	0.247%
242	15.182	15.163	15.205	VV	3103	52461	0.83%	0.236%
243	15.222	15.205	15.242	VV	1764	31165	0.49%	0.140%
244	15.271	15.242	15.334	VV	13837	212836	3.38%	0.956%
245	15.354	15.334	15.369	VV	685	10037	0.16%	0.045%
246	15.389	15.369	15.415	VV	787	13498	0.21%	0.061%

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247	15.444	15.415	15.475	VV	8546	109241	1.73%	0.491%
248	15.498	15.475	15.568	VV	1317	22856	0.36%	0.103%
249	15.603	15.568	15.677	VV	18332	314708	4.99%	1.414%
250	15.702	15.677	15.728	VV	4409	71487	1.13%	0.321%
251	15.761	15.728	15.782	VV	1902	47296	0.75%	0.212%
252	15.793	15.782	15.835	VV	897	16734	0.27%	0.075%
253	15.872	15.835	15.919	VV	2836	43127	0.68%	0.194%
254	15.964	15.934	15.992	VV	329	6579	0.10%	0.030%
255	16.031	16.005	16.033	VV	279	3316	0.05%	0.015%
256	16.057	16.033	16.082	VV	3145	42201	0.67%	0.190%
257	16.126	16.082	16.167	VV	847	25171	0.40%	0.113%
258	16.178	16.167	16.187	VV	517	5900	0.09%	0.027%
259	16.207	16.187	16.227	VV	1089	17213	0.27%	0.077%
260	16.246	16.227	16.279	VV	1260	19130	0.30%	0.086%
261	16.310	16.279	16.369	VV	6563	97862	1.55%	0.440%
262	16.387	16.369	16.412	VV	407	7535	0.12%	0.034%
263	16.427	16.412	16.459	VV	298	5617	0.09%	0.025%
264	16.481	16.474	16.524	VV	66	1252	0.02%	0.006%
265	16.559	16.539	16.582	VV	147	2035	0.03%	0.009%
266	16.618	16.582	16.687	VV	13307	235775	3.74%	1.059%
267	16.709	16.687	16.717	VV	2266	32529	0.52%	0.146%
268	16.732	16.717	16.754	VV	2730	44193	0.70%	0.199%
269	16.777	16.754	16.786	VV	943	17359	0.28%	0.078%
270	16.811	16.786	16.852	VV	1547	34034	0.54%	0.153%
271	16.872	16.852	16.896	VV	538	10516	0.17%	0.047%
272	16.912	16.896	16.921	VV	519	6841	0.11%	0.031%
273	16.928	16.921	16.987	VV	452	11922	0.19%	0.054%
274	17.020	16.987	17.049	VV	253	7262	0.12%	0.033%
275	17.101	17.049	17.140	VV	1458	45698	0.73%	0.205%
276	17.161	17.140	17.179	VV	1136	22546	0.36%	0.101%
277	17.198	17.179	17.227	VV	2627	44025	0.70%	0.198%
278	17.249	17.227	17.258	VV	2418	30653	0.49%	0.138%
279	17.277	17.258	17.361	VV	5128	79589	1.26%	0.358%
280	17.388	17.361	17.397	PV	142	1320	0.02%	0.006%
281	17.432	17.419	17.459	VV	221	2714	0.04%	0.012%
282	17.486	17.459	17.500	VV	168	2236	0.04%	0.010%
283	17.562	17.500	17.605	VV	7572	143430	2.28%	0.644%
284	17.611	17.605	17.616	VV	1440	8510	0.14%	0.038%
285	17.619	17.616	17.625	VV	1366	6982	0.11%	0.031%
286	17.649	17.625	17.687	VV	6348	104971	1.67%	0.472%
287	17.694	17.687	17.710	VV	474	5523	0.09%	0.025%
288	17.746	17.710	17.752	VV	1305	22782	0.36%	0.102%
289	17.754	17.752	17.798	VV	1286	10834	0.17%	0.049%
290	17.818	17.798	17.843	PV	223	4141	0.07%	0.019%
291	17.866	17.843	17.891	VV	498	8551	0.14%	0.038%
292	17.926	17.904	17.940	VV	162	1856	0.03%	0.008%
293	17.965	17.940	17.991	VV	189	2876	0.05%	0.013%
294	18.018	17.991	18.041	PV	1294	20108	0.32%	0.090%
295	18.088	18.041	18.135	VV	5181	90022	1.43%	0.404%
296	18.178	18.135	18.232	VV	6850	116780	1.85%	0.525%
297	18.237	18.232	18.241	VV	291	1608	0.03%	0.007%
298	18.264	18.241	18.269	VV	540	7125	0.11%	0.032%
299	18.294	18.269	18.325	VV	1696	38776	0.62%	0.174%

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300	18.337	18.325	18.349	VV	1325	16855	0.27%	0.076%
301	18.365	18.349	18.389	VV	1833	32028	0.51%	0.144%
302	18.409	18.389	18.419	VV	1900	24116	0.38%	0.108%
303	18.445	18.419	18.482	VV	13486	241942	3.84%	1.087%
304	18.515	18.482	18.551	VV	9495	202368	3.21%	0.909%
305	18.564	18.551	18.587	VV	2318	40325	0.64%	0.181%
306	18.638	18.587	18.672	VV	16557	265870	4.22%	1.194%
307	18.678	18.672	18.702	VV	239	2226	0.04%	0.010%
308	18.743	18.702	18.787	PV	1361	37805	0.60%	0.170%

Sum of corrected areas: 22258590

Aromatic EPH 011425.M Thu Jan 30 03:26:22 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-110-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	57
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015193.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.67	U	0.67	1.75	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.63	J	0.42	1.17	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		2.71		0.53	1.75	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.40	U	1.40	2.34	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		3.15	U	3.15	3.51	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		22.8		40 - 140	46%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-02	Acq On:	28 Jan 2025 20:37
Client Sample ID:	B-110-SB02	Operator:	YP\AJ
Data file:	FG015193.D	Misc:	
Instrument:	FID_G	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	456780	3.437	300	ug/ml
Aliphatic C12-C16	6.821	10.273	758533	5.372	200	ug/ml
Aliphatic C16-C21	10.274	13.656	3351528	23.191	300	ug/ml
Aliphatic C21-C28	13.657	17.330	1053447	7.706	400	ug/ml
Aliphatic C28-C40	17.331	22.272	2416949	22.89	600	ug/ml
Aliphatic EPH	3.178	22.272	8037237	62.596		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.384	13.384	2781205	22.84		ug/ml
Aliphatic C9-C28	3.178	17.330	5620288	39.706	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015193.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 20:37
Operator : YP\AJ
Sample : Q1194-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB02

Integration File: autoint1.e
Quant Time: Jan 29 02:38:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.384	2781205	22.841 ug/ml
Spiked Amount 50.000		Recovery = 45.68%	
Target Compounds			

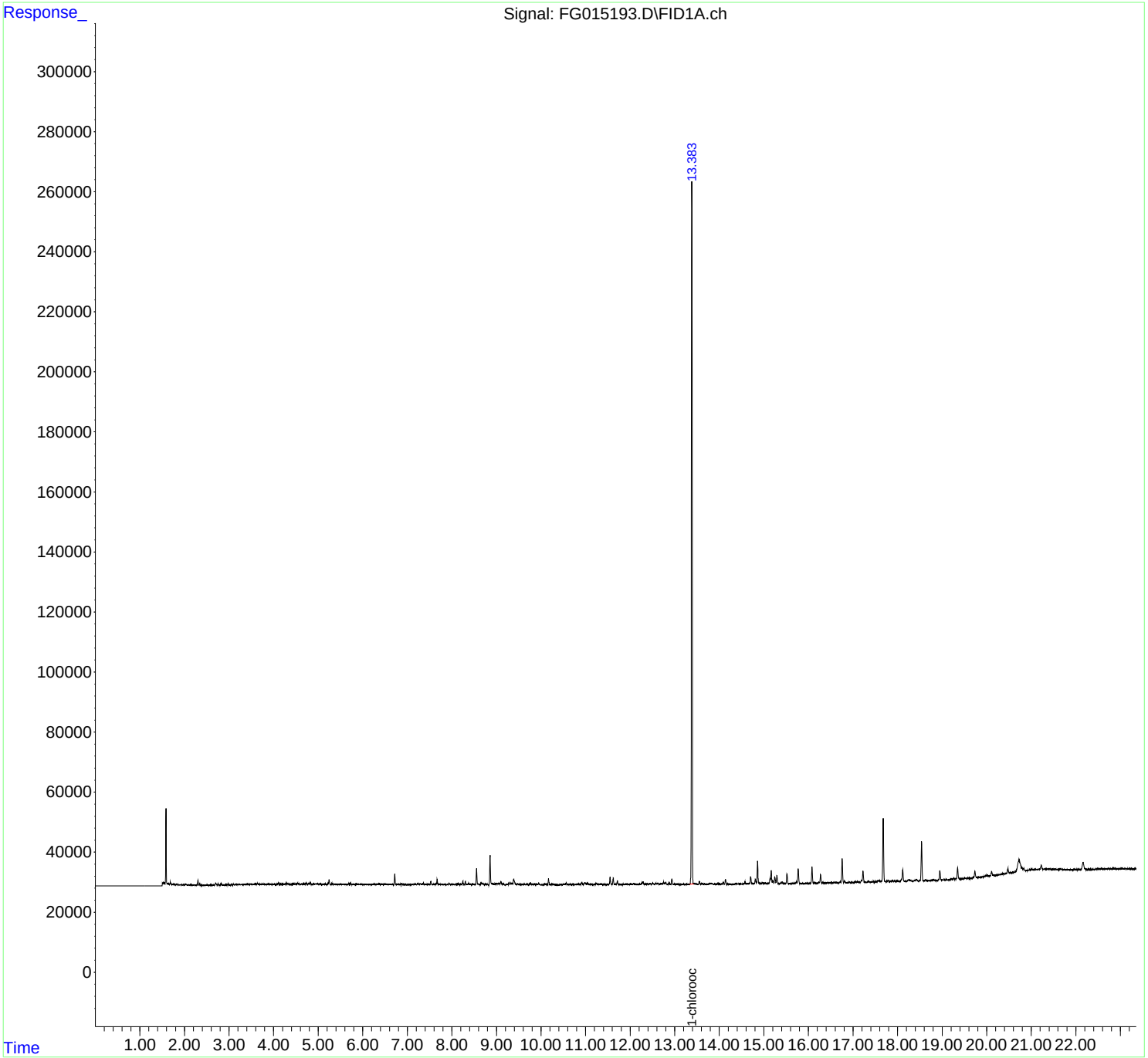
(f)=RT Delta > 1/2 Window (m)=manual int.

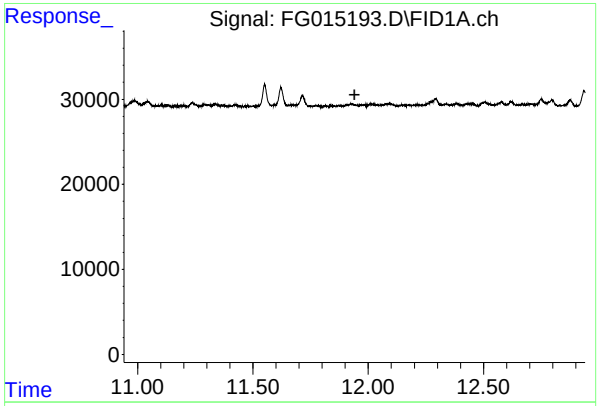
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015193.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 20:37
Operator : YP\AJ
Sample : Q1194-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB02

Integration File: autoint1.e
Quant Time: Jan 29 02:38:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

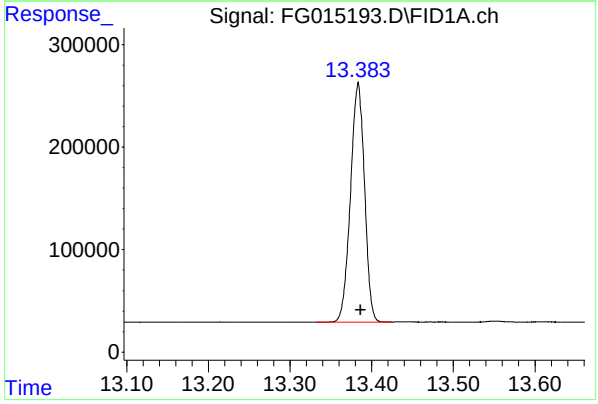




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.940 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
B-110-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.384 min
Delta R.T.: -0.003 min
Response: 2781205
Conc: 22.84 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015193.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 20:37
Sample : Q1194-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.284	3.222	3.315	BV	159	2724	0.10%	0.034%
2	3.374	3.315	3.388	PV	161	2527	0.09%	0.031%
3	3.396	3.388	3.435	VV	124	1976	0.07%	0.025%
4	3.490	3.435	3.508	VV	218	5520	0.20%	0.069%
5	3.526	3.508	3.558	VV	173	3679	0.13%	0.046%
6	3.639	3.558	3.658	VV	403	11305	0.40%	0.141%
7	3.676	3.658	3.711	VV	235	4860	0.17%	0.060%
8	3.736	3.711	3.823	VV	174	9053	0.32%	0.113%
9	3.833	3.823	3.849	VV	164	1841	0.07%	0.023%
10	3.867	3.849	3.892	VV	181	3153	0.11%	0.039%
11	3.908	3.892	3.989	VV	165	8338	0.30%	0.104%
12	4.005	3.989	4.046	VV	162	4460	0.16%	0.055%
13	4.080	4.046	4.093	VV	295	5593	0.20%	0.070%
14	4.113	4.093	4.139	VV	482	7794	0.28%	0.097%
15	4.152	4.139	4.178	VV	165	3675	0.13%	0.046%
16	4.189	4.178	4.198	VV	232	2273	0.08%	0.028%
17	4.206	4.198	4.238	VV	217	4612	0.17%	0.057%
18	4.284	4.238	4.308	VV	517	13240	0.47%	0.165%
19	4.316	4.308	4.327	VV	236	2521	0.09%	0.031%
20	4.337	4.327	4.385	VV	243	7112	0.25%	0.088%
21	4.461	4.385	4.508	VV	292	15404	0.55%	0.191%
22	4.540	4.508	4.602	VV	586	17119	0.61%	0.213%
23	4.610	4.602	4.648	VV	271	6449	0.23%	0.080%
24	4.668	4.648	4.708	VV	361	9017	0.32%	0.112%
25	4.730	4.708	4.752	VV	623	9897	0.35%	0.123%
26	4.762	4.752	4.775	VV	276	3211	0.12%	0.040%
27	4.792	4.775	4.808	VV	523	7043	0.25%	0.088%
28	4.826	4.808	4.864	VV	828	13109	0.47%	0.163%
29	4.875	4.864	4.881	VV	255	2444	0.09%	0.030%
30	4.889	4.881	4.931	VV	298	7538	0.27%	0.094%
31	4.959	4.931	5.020	VV	304	14110	0.51%	0.175%
32	5.042	5.020	5.072	VV	279	7322	0.26%	0.091%
33	5.080	5.072	5.125	VV	239	6863	0.25%	0.085%
34	5.129	5.125	5.142	VV	217	1861	0.07%	0.023%
35	5.158	5.142	5.195	VV	281	6422	0.23%	0.080%
36	5.245	5.195	5.287	VV	1684	27537	0.99%	0.342%

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37	5.307	5.287	5.357	VV	460	9770	0.35%	0.121%
38	5.365	5.357	5.437	VV	228	7016	0.25%	0.087%
39	5.452	5.437	5.475	VV	203	3745	0.13%	0.047%
40	5.498	5.475	5.508	VV	217	3641	0.13%	0.045%
41	5.515	5.508	5.524	VV	213	1537	0.06%	0.019%
42	5.541	5.524	5.594	VV	187	6637	0.24%	0.083%
43	5.605	5.594	5.622	VV	149	2070	0.07%	0.026%
44	5.683	5.622	5.708	VV	477	11643	0.42%	0.145%
45	5.727	5.708	5.758	VV	605	9437	0.34%	0.117%
46	5.789	5.758	5.810	VV	264	5903	0.21%	0.073%
47	5.820	5.810	5.835	VV	160	2203	0.08%	0.027%
48	5.875	5.835	5.939	VV	259	10653	0.38%	0.132%
49	5.948	5.939	5.962	VV	163	1857	0.07%	0.023%
50	5.998	5.962	6.008	VV	213	4207	0.15%	0.052%
51	6.029	6.008	6.045	VV	182	2860	0.10%	0.036%
52	6.057	6.045	6.103	VV	149	4194	0.15%	0.052%
53	6.132	6.103	6.144	VV	149	2907	0.10%	0.036%
54	6.161	6.144	6.238	VV	138	6724	0.24%	0.084%
55	6.259	6.238	6.300	VV	255	6896	0.25%	0.086%
56	6.319	6.300	6.344	VV	257	5292	0.19%	0.066%
57	6.363	6.344	6.387	VV	459	7076	0.25%	0.088%
58	6.431	6.387	6.462	VV	283	8845	0.32%	0.110%
59	6.504	6.462	6.587	VV	281	13214	0.47%	0.164%
60	6.602	6.587	6.615	VV	189	2396	0.09%	0.030%
61	6.618	6.615	6.627	VV	142	839	0.03%	0.010%
62	6.642	6.627	6.688	VV	142	4368	0.16%	0.054%
63	6.719	6.688	6.787	VV	3681	44293	1.59%	0.551%
64	6.806	6.787	6.827	VV	357	4955	0.18%	0.062%
65	6.839	6.827	6.855	VV	251	2938	0.11%	0.037%
66	6.874	6.855	6.894	VV	552	6904	0.25%	0.086%
67	6.908	6.894	6.926	VV	227	2543	0.09%	0.032%
68	6.949	6.926	6.991	VV	294	4340	0.16%	0.054%
69	7.003	6.991	7.017	VV	114	1097	0.04%	0.014%
70	7.051	7.017	7.072	VV	139	2717	0.10%	0.034%
71	7.095	7.072	7.102	VV	120	1693	0.06%	0.021%
72	7.109	7.102	7.115	VV	111	636	0.02%	0.008%
73	7.122	7.115	7.148	VV	129	1607	0.06%	0.020%
74	7.178	7.148	7.202	VV	399	5325	0.19%	0.066%
75	7.233	7.202	7.267	VV	434	9882	0.35%	0.123%
76	7.296	7.267	7.324	VV	421	10055	0.36%	0.125%
77	7.361	7.324	7.388	VV	626	12641	0.45%	0.157%
78	7.402	7.388	7.427	VV	252	4141	0.15%	0.051%
79	7.444	7.427	7.501	VV	293	8036	0.29%	0.100%
80	7.527	7.501	7.552	VV	1202	15466	0.55%	0.192%
81	7.586	7.552	7.597	VV	233	4915	0.18%	0.061%
82	7.608	7.597	7.620	VV	256	2974	0.11%	0.037%
83	7.638	7.620	7.648	VV	284	4139	0.15%	0.051%
84	7.670	7.648	7.717	VV	1816	24701	0.88%	0.307%
85	7.733	7.717	7.752	VV	275	4127	0.15%	0.051%
86	7.764	7.752	7.785	VV	359	4373	0.16%	0.054%
87	7.813	7.785	7.828	VV	166	3714	0.13%	0.046%
88	7.842	7.828	7.868	VV	240	3938	0.14%	0.049%
89	7.890	7.868	7.914	VV	173	3507	0.13%	0.044%

90	7.937	7.914	7.968	VV	609	8224	0.29%	0.102%
91	8.004	7.968	8.075	VV	235	11003	0.39%	0.137%
92	8.103	8.075	8.115	VV	285	5143	0.18%	0.064%
93	8.133	8.115	8.147	VV	326	5501	0.20%	0.068%
94	8.159	8.147	8.180	VV	342	4920	0.18%	0.061%
95	8.201	8.180	8.225	VV	441	6676	0.24%	0.083%
96	8.247	8.225	8.280	VV	1295	15854	0.57%	0.197%
97	8.304	8.280	8.325	VV	1250	14900	0.53%	0.185%
98	8.340	8.325	8.357	VV	244	3881	0.14%	0.048%
99	8.374	8.357	8.393	VV	545	7424	0.27%	0.092%
100	8.404	8.393	8.433	VV	252	3966	0.14%	0.049%
101	8.460	8.433	8.532	VV	492	12193	0.44%	0.152%
102	8.555	8.532	8.588	VV	5534	65116	2.33%	0.809%
103	8.604	8.588	8.629	VV	332	6112	0.22%	0.076%
104	8.660	8.629	8.688	VV	551	12626	0.45%	0.157%
105	8.705	8.688	8.734	VV	434	8208	0.29%	0.102%
106	8.751	8.734	8.774	VV	338	5194	0.19%	0.065%
107	8.792	8.774	8.830	VV	324	5572	0.20%	0.069%
108	8.858	8.830	8.898	VV	9817	115432	4.13%	1.435%
109	8.908	8.898	8.948	VV	527	11013	0.39%	0.137%
110	8.974	8.948	8.993	VV	502	10271	0.37%	0.128%
111	9.010	8.993	9.036	VV	517	10525	0.38%	0.131%
112	9.051	9.036	9.068	VV	588	8316	0.30%	0.103%
113	9.099	9.068	9.135	VV	1149	23687	0.85%	0.294%
114	9.152	9.135	9.191	VV	402	8331	0.30%	0.104%
115	9.218	9.191	9.238	VV	304	5274	0.19%	0.066%
116	9.254	9.238	9.264	VV	326	3768	0.13%	0.047%
117	9.284	9.264	9.305	VV	920	13207	0.47%	0.164%
118	9.323	9.305	9.347	VV	587	11825	0.42%	0.147%
119	9.387	9.347	9.457	VV	1979	50600	1.81%	0.629%
120	9.475	9.457	9.502	VV	497	7404	0.27%	0.092%
121	9.525	9.502	9.553	VV	390	6366	0.23%	0.079%
122	9.577	9.553	9.598	VV	275	4435	0.16%	0.055%
123	9.627	9.598	9.657	VV	253	6914	0.25%	0.086%
124	9.689	9.657	9.718	VV	405	8839	0.32%	0.110%
125	9.724	9.718	9.734	VV	113	1203	0.04%	0.015%
126	9.758	9.734	9.792	VV	768	14556	0.52%	0.181%
127	9.808	9.792	9.839	VV	375	7082	0.25%	0.088%
128	9.849	9.839	9.878	VV	289	4856	0.17%	0.060%
129	9.896	9.878	9.932	VV	497	9076	0.33%	0.113%
130	9.949	9.932	9.975	VV	798	10495	0.38%	0.130%
131	10.011	9.975	10.028	VV	142	3849	0.14%	0.048%
132	10.039	10.028	10.065	VV	170	2836	0.10%	0.035%
133	10.090	10.065	10.147	PV	488	11087	0.40%	0.138%
134	10.170	10.147	10.196	VV	1979	24042	0.86%	0.299%
135	10.206	10.196	10.224	VV	172	2376	0.09%	0.030%
136	10.245	10.224	10.325	VV	318	11946	0.43%	0.148%
137	10.345	10.325	10.376	VV	190	3320	0.12%	0.041%
138	10.449	10.376	10.466	VV	200	5950	0.21%	0.074%
139	10.521	10.466	10.532	VV	257	7359	0.26%	0.091%
140	10.563	10.532	10.585	VV	638	12037	0.43%	0.150%
141	10.608	10.585	10.628	VV	337	6128	0.22%	0.076%

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142	10.652	10.628	10.672	VV	304	5453	0.20%	0.068%
143	10.706	10.672	10.722	VV	259	5165	0.19%	0.064%
144	10.734	10.722	10.748	VV	189	2128	0.08%	0.026%
145	10.771	10.748	10.782	VV	242	3495	0.13%	0.043%
146	10.810	10.782	10.832	VV	247	5794	0.21%	0.072%
147	10.848	10.832	10.882	VV	362	8626	0.31%	0.107%
148	10.914	10.882	10.948	VV	927	17690	0.63%	0.220%
149	10.987	10.948	11.016	VV	836	20216	0.72%	0.251%
150	11.042	11.016	11.081	VV	692	15555	0.56%	0.193%
151	11.105	11.081	11.118	VV	257	4414	0.16%	0.055%
152	11.128	11.118	11.164	VV	231	4512	0.16%	0.056%
153	11.176	11.164	11.213	VV	169	4117	0.15%	0.051%
154	11.237	11.213	11.266	VV	575	9643	0.35%	0.120%
155	11.291	11.266	11.322	VV	292	8034	0.29%	0.100%
156	11.338	11.322	11.395	VV	316	9547	0.34%	0.119%
157	11.422	11.395	11.461	VV	255	5963	0.21%	0.074%
158	11.476	11.461	11.483	VV	141	1419	0.05%	0.018%
159	11.551	11.483	11.581	VV	2642	37982	1.36%	0.472%
160	11.622	11.581	11.652	VV	2309	34044	1.22%	0.423%
161	11.715	11.652	11.755	VV	1308	25327	0.91%	0.315%
162	11.769	11.755	11.802	VV	148	3056	0.11%	0.038%
163	11.814	11.802	11.832	VV	122	1939	0.07%	0.024%
164	11.846	11.832	11.860	VV	146	2269	0.08%	0.028%
165	11.872	11.860	11.898	VV	161	2934	0.11%	0.036%
166	11.928	11.898	11.959	VV	340	8886	0.32%	0.110%
167	11.978	11.959	11.992	VV	279	4274	0.15%	0.053%
168	12.012	11.992	12.049	VV	375	8640	0.31%	0.107%
169	12.086	12.049	12.135	VV	390	13340	0.48%	0.166%
170	12.175	12.135	12.189	VV	216	5894	0.21%	0.073%
171	12.291	12.189	12.319	VV	909	30136	1.08%	0.375%
172	12.335	12.319	12.363	VV	319	7021	0.25%	0.087%
173	12.382	12.363	12.408	VV	393	7708	0.28%	0.096%
174	12.437	12.408	12.448	VV	358	7367	0.26%	0.092%
175	12.453	12.448	12.475	VV	375	4295	0.15%	0.053%
176	12.504	12.475	12.542	VV	545	13668	0.49%	0.170%
177	12.577	12.542	12.601	VV	571	12108	0.43%	0.151%
178	12.619	12.601	12.652	VV	611	10894	0.39%	0.135%
179	12.670	12.652	12.685	VV	294	4857	0.17%	0.060%
180	12.703	12.685	12.724	VV	323	6513	0.23%	0.081%
181	12.751	12.724	12.774	VV	879	16028	0.57%	0.199%
182	12.797	12.774	12.838	VV	799	15397	0.55%	0.191%
183	12.875	12.838	12.902	VV	835	13486	0.48%	0.168%
184	12.936	12.902	12.991	VV	1906	28625	1.03%	0.356%
185	13.013	12.991	13.030	VV	259	4446	0.16%	0.055%
186	13.055	13.030	13.075	VV	298	5355	0.19%	0.067%
187	13.084	13.075	13.125	VV	196	3060	0.11%	0.038%
188	13.137	13.125	13.161	PV	78	1096	0.04%	0.014%
189	13.216	13.161	13.255	VV	251	7136	0.26%	0.089%
190	13.265	13.255	13.277	VV	179	1646	0.06%	0.020%
191	13.296	13.277	13.325	VV	180	3577	0.13%	0.044%
192	13.383	13.325	13.425	VV	231829	2791670	100.00%	34.703%
193	13.442	13.425	13.463	VV	353	6746	0.24%	0.084%
194	13.472	13.463	13.503	VV	274	5069	0.18%	0.063%

195	13.551	13.503	13.581	VV	1135	19859	0.71%	0.247%
196	13.609	13.581	13.646	VV	336	8615	0.31%	0.107%
197	13.671	13.646	13.705	VV	258	5728	0.21%	0.071%
198	13.722	13.705	13.735	VV	159	2246	0.08%	0.028%
199	13.781	13.735	13.795	VV	283	7898	0.28%	0.098%
200	13.825	13.795	13.880	VV	359	12207	0.44%	0.152%
201	13.895	13.880	13.919	VV	180	3177	0.11%	0.039%
202	13.942	13.919	13.955	VV	210	3635	0.13%	0.045%
203	13.959	13.955	13.965	VV	222	1063	0.04%	0.013%
204	13.995	13.965	14.031	VV	296	8574	0.31%	0.107%
205	14.086	14.031	14.112	VV	734	14254	0.51%	0.177%
206	14.138	14.112	14.168	VV	1612	23019	0.82%	0.286%
207	14.177	14.168	14.255	VV	152	5825	0.21%	0.072%
208	14.264	14.255	14.319	VV	116	2706	0.10%	0.034%
209	14.357	14.319	14.424	PV	326	10285	0.37%	0.128%
210	14.439	14.424	14.456	VV	145	2451	0.09%	0.030%
211	14.475	14.456	14.505	VV	181	4264	0.15%	0.053%
212	14.576	14.505	14.611	VV	874	19042	0.68%	0.237%
213	14.620	14.611	14.645	VV	196	3692	0.13%	0.046%
214	14.653	14.645	14.677	VV	212	3745	0.13%	0.047%
215	14.704	14.677	14.735	VV	2448	32915	1.18%	0.409%
216	14.762	14.735	14.780	VV	251	5272	0.19%	0.066%
217	14.807	14.780	14.830	VV	1797	27009	0.97%	0.336%
218	14.857	14.830	14.886	VV	7702	101850	3.65%	1.266%
219	14.898	14.886	14.931	VV	405	7204	0.26%	0.090%
220	14.963	14.931	15.007	VV	612	14567	0.52%	0.181%
221	15.041	15.007	15.076	VV	441	11342	0.41%	0.141%
222	15.095	15.076	15.112	VV	173	3185	0.11%	0.040%
223	15.164	15.112	15.187	VV	4533	86528	3.10%	1.076%
224	15.200	15.187	15.223	VV	1173	17253	0.62%	0.214%
225	15.246	15.223	15.270	VV	2185	34661	1.24%	0.431%
226	15.291	15.270	15.347	VV	2761	40955	1.47%	0.509%
227	15.372	15.347	15.387	PV	397	5103	0.18%	0.063%
228	15.406	15.387	15.435	VV	628	9483	0.34%	0.118%
229	15.464	15.435	15.485	VV	278	5477	0.20%	0.068%
230	15.518	15.485	15.568	VV	3344	45481	1.63%	0.565%
231	15.588	15.568	15.645	PV	115	2734	0.10%	0.034%
232	15.675	15.645	15.703	VV	235	4397	0.16%	0.055%
233	15.728	15.703	15.742	VV	680	8989	0.32%	0.112%
234	15.769	15.742	15.872	VV	4937	75287	2.70%	0.936%
235	15.898	15.872	15.928	VV	106	1788	0.06%	0.022%
236	15.946	15.928	15.982	VV	145	3084	0.11%	0.038%
237	16.005	15.982	16.016	VV	126	1772	0.06%	0.022%
238	16.079	16.016	16.116	PV	5503	74732	2.68%	0.929%
239	16.125	16.116	16.133	VV	196	1488	0.05%	0.018%
240	16.145	16.133	16.182	VV	230	3650	0.13%	0.045%
241	16.232	16.182	16.246	VV	505	7704	0.28%	0.096%
242	16.271	16.246	16.356	VV	2942	44755	1.60%	0.556%
243	16.365	16.356	16.390	VV	68	674	0.02%	0.008%
244	16.412	16.390	16.428	PV	130	1602	0.06%	0.020%
245	16.455	16.428	16.536	VV	180	7176	0.26%	0.089%
246	16.586	16.536	16.609	VV	273	6780	0.24%	0.084%

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247	16.631	16.609	16.650	VV	241	4432	0.16%	0.055%
248	16.657	16.650	16.681	VV	171	1634	0.06%	0.020%
249	16.713	16.681	16.726	VV	306	5061	0.18%	0.063%
250	16.756	16.726	16.786	VV	8067	109630	3.93%	1.363%
251	16.806	16.786	16.881	VV	588	10123	0.36%	0.126%
252	16.890	16.881	16.896	PV	99	493	0.02%	0.006%
253	16.916	16.896	16.958	VV	226	5319	0.19%	0.066%
254	16.975	16.958	17.010	VV	167	3265	0.12%	0.041%
255	17.026	17.010	17.038	VV	170	1896	0.07%	0.024%
256	17.061	17.038	17.092	VV	267	5957	0.21%	0.074%
257	17.108	17.092	17.162	VV	309	7570	0.27%	0.094%
258	17.189	17.162	17.200	VV	809	10614	0.38%	0.132%
259	17.223	17.200	17.309	VV	3861	58745	2.10%	0.730%
260	17.353	17.309	17.385	VV	386	7425	0.27%	0.092%
261	17.439	17.385	17.448	VV	230	5783	0.21%	0.072%
262	17.464	17.448	17.487	VV	249	3817	0.14%	0.047%
263	17.514	17.487	17.530	VV	215	4458	0.16%	0.055%
264	17.558	17.530	17.578	VV	586	10269	0.37%	0.128%
265	17.590	17.578	17.625	VV	612	9392	0.34%	0.117%
266	17.676	17.625	17.738	VV	21045	296041	10.60%	3.680%
267	17.786	17.738	17.855	PV	362	13020	0.47%	0.162%
268	17.887	17.855	17.912	VV	391	6805	0.24%	0.085%
269	17.927	17.912	17.952	VV	241	4239	0.15%	0.053%
270	17.987	17.952	18.022	VV	289	7261	0.26%	0.090%
271	18.036	18.022	18.048	VV	156	1592	0.06%	0.020%
272	18.113	18.048	18.173	VV	3868	67132	2.40%	0.835%
273	18.191	18.173	18.212	VV	152	2551	0.09%	0.032%
274	18.241	18.212	18.316	VV	483	18611	0.67%	0.231%
275	18.326	18.316	18.345	VV	111	1228	0.04%	0.015%
276	18.431	18.345	18.481	VV	558	18215	0.65%	0.226%
277	18.538	18.481	18.589	VV	13228	185914	6.66%	2.311%
278	18.624	18.589	18.645	PV	454	6825	0.24%	0.085%
279	18.656	18.645	18.705	VV	181	3986	0.14%	0.050%
280	18.712	18.705	18.719	VV	48	348	0.01%	0.004%
281	18.735	18.719	18.772	PV	178	3199	0.11%	0.040%
282	18.803	18.772	18.831	VV	378	7497	0.27%	0.093%
283	18.845	18.831	18.875	VV	170	2996	0.11%	0.037%
284	18.881	18.875	18.891	VV	87	579	0.02%	0.007%
285	18.948	18.891	18.991	PV	3133	52545	1.88%	0.653%
286	19.006	18.991	19.022	VV	160	1829	0.07%	0.023%
287	19.047	19.022	19.065	VV	230	3176	0.11%	0.039%
288	19.098	19.065	19.145	VV	259	5799	0.21%	0.072%
289	19.152	19.145	19.168	VV	77	653	0.02%	0.008%
290	19.206	19.168	19.237	PV	260	6405	0.23%	0.080%
291	19.259	19.237	19.284	VV	695	10198	0.37%	0.127%
292	19.306	19.284	19.318	VV	416	5700	0.20%	0.071%
293	19.346	19.318	19.405	VV	3935	60635	2.17%	0.754%
294	19.416	19.405	19.428	VV	38	601	0.02%	0.007%
295	19.485	19.428	19.510	VV	181	6135	0.22%	0.076%
296	19.521	19.510	19.565	VV	218	4857	0.17%	0.060%
297	19.597	19.565	19.628	VV	205	5578	0.20%	0.069%
298	19.685	19.628	19.698	VV	212	6076	0.22%	0.076%
299	19.734	19.698	19.801	VV	2330	42928	1.54%	0.534%

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300	19.815	19.801	19.824	VV	136	1551	0.06%	0.019%
301	19.902	19.824	19.908	VV	251	9423	0.34%	0.117%
302	19.980	19.908	20.002	VV	593	20091	0.72%	0.250%
303	20.023	20.002	20.075	VV	517	18376	0.66%	0.228%
304	20.110	20.075	20.136	VV	1817	35272	1.26%	0.438%
305	20.157	20.136	20.195	VV	605	18301	0.66%	0.227%
306	20.348	20.195	20.363	VV	733	59685	2.14%	0.742%
307	20.385	20.363	20.412	VV	817	21630	0.77%	0.269%
308	20.476	20.412	20.513	VV	2465	72257	2.59%	0.898%
309	20.535	20.513	20.561	VV	1007	27496	0.98%	0.342%
310	20.572	20.561	20.580	VV	1000	10882	0.39%	0.135%
311	20.586	20.580	20.597	VV	960	9712	0.35%	0.121%
312	20.729	20.597	20.818	VV	4831	333434	11.94%	4.145%
313	20.834	20.818	20.878	VV	2065	57574	2.06%	0.716%
314	20.922	20.878	20.935	VV	1332	43623	1.56%	0.542%
315	21.009	20.935	21.068	VV	1632	116639	4.18%	1.450%
316	21.080	21.068	21.094	VV	1505	23358	0.84%	0.290%
317	21.101	21.094	21.134	VV	1476	33828	1.21%	0.421%
318	21.153	21.134	21.165	VV	1395	25521	0.91%	0.317%
319	21.223	21.165	21.287	VV	2724	122634	4.39%	1.524%
320	21.322	21.287	21.418	VV	1322	95933	3.44%	1.193%
321	21.428	21.418	21.455	VV	1156	24182	0.87%	0.301%
322	21.465	21.455	21.519	VV	1107	39823	1.43%	0.495%
323	21.529	21.519	21.555	VV	997	21237	0.76%	0.264%
324	21.561	21.555	21.592	VV	971	20086	0.72%	0.250%
325	21.602	21.592	21.623	VV	876	15746	0.56%	0.196%
326	21.665	21.623	21.727	VV	1024	50387	1.80%	0.626%
327	21.789	21.727	21.816	VV	671	33359	1.19%	0.415%
328	21.824	21.816	21.888	VV	614	22911	0.82%	0.285%
329	21.899	21.888	21.948	VV	483	15414	0.55%	0.192%
330	21.980	21.948	21.995	VV	459	11304	0.40%	0.141%
331	22.015	21.995	22.034	VV	371	8258	0.30%	0.103%
332	22.046	22.034	22.065	VV	367	5947	0.21%	0.074%
333	22.163	22.065	22.272	VV	2690	88777	3.18%	1.104%
334	22.294	22.272	22.304	VV	147	2611	0.09%	0.032%
335	22.318	22.304	22.338	VV	150	2649	0.09%	0.033%
336	22.382	22.338	22.395	VV	85	2020	0.07%	0.025%

Sum of corrected areas: 8044515

Aliphatic EPH 011425.M Wed Jan 29 03:46:48 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 21:05	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.15	mg/kg	FG015194.D
Aliphatic C12-C16	Aliphatic C12-C16	0.56	J	1	0.28	0.77	mg/kg	FG015194.D
Aliphatic C16-C21	Aliphatic C16-C21	2.78		1	0.35	1.15	mg/kg	FG015194.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.53	mg/kg	FG015194.D
Aliphatic C28-C40	Aliphatic C28-C40	2.07	U	1	2.07	2.30	mg/kg	FG015194.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FF015337.D
Aromatic C12-C16	Aromatic C12-C16	0.39	J	1	0.39	1.15	mg/kg	FF015337.D
Aromatic C16-C21	Aromatic C16-C21	2.48		1	1.10	1.91	mg/kg	FF015337.D
Aromatic C21-C36	Aromatic C21-C36	2.30	U	1	2.30	3.06	mg/kg	FF015337.D
Total AliphaticEPH	Total AliphaticEPH	4.05	U		4.05	6.90	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.13	U		4.13	6.89	mg/kg	
Total EPH	Total EPH	8.18	U		8.18	13.8	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 21:05	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.15	mg/kg	FG015194.D
Aliphatic C12-C16	Aliphatic C12-C16	0.56	J	1	0.28	0.77	mg/kg	FG015194.D
Aliphatic C16-C21	Aliphatic C16-C21	2.78		1	0.35	1.15	mg/kg	FG015194.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.53	mg/kg	FG015194.D
Aliphatic C28-C40	Aliphatic C28-C40	2.07	U	1	2.07	2.30	mg/kg	FG015194.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FF015337.D
Aromatic C12-C16	Aromatic C12-C16	0.39	J	1	0.39	1.15	mg/kg	FF015337.D
Aromatic C16-C21	Aromatic C16-C21	2.48		1	1.10	1.91	mg/kg	FF015337.D
Aromatic C21-C36	Aromatic C21-C36	2.30	U	1	2.30	3.06	mg/kg	FF015337.D
Total AliphaticEPH	Total AliphaticEPH	4.05	U		4.05	6.90	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.13	U		4.13	6.89	mg/kg	
Total EPH	Total EPH	8.18	U		8.18	13.8	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 21:05	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.44	U	1	0.44	1.15	mg/kg	FG015194.D
Aliphatic C12-C16	Aliphatic C12-C16	0.56	J	1	0.28	0.77	mg/kg	FG015194.D
Aliphatic C16-C21	Aliphatic C16-C21	2.78		1	0.35	1.15	mg/kg	FG015194.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.53	mg/kg	FG015194.D
Aliphatic C28-C40	Aliphatic C28-C40	2.07	U	1	2.07	2.30	mg/kg	FG015194.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.77	mg/kg	FF015337.D
Aromatic C12-C16	Aromatic C12-C16	0.39	J	1	0.39	1.15	mg/kg	FF015337.D
Aromatic C16-C21	Aromatic C16-C21	2.48		1	1.10	1.91	mg/kg	FF015337.D
Aromatic C21-C36	Aromatic C21-C36	2.30	U	1	2.30	3.06	mg/kg	FF015337.D
Total AliphaticEPH	Total AliphaticEPH	4.05	U		4.05	6.90	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.13	U		4.13	6.89	mg/kg	
Total EPH	Total EPH	8.18	U		8.18	13.8	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015337.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.39	J	0.39	1.15	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.48		1.10	1.91	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.30	U	2.30	3.06	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.1		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.2		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.7		40 - 140	89%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-03	Acq On:	28 Jan 2025 21:05
Client Sample ID:	B-113-SB01	Operator:	YP\AJ
Data file:	FF015337.D	Misc:	
Instrument:	FID_F	ALS Vial:	74
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	354941	2.213	200	ug/ml
Aromatic C12-C16	6.356	9.053	818900	5.108	300	ug/ml
Aromatic C16-C21	9.054	13.372	5066389	32.335	500	ug/ml
Aromatic C21-C36	13.373	18.824	2941766	20.205	800	ug/ml
Aromatic EPH	4.485	18.824	9181996	59.861		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7533896	57.07		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4747058	56.24		ug/ml
ortho-Terphenyl (SURR)	11.931	11.931	7699111	44.72		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015337.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:05
Operator : YP\AJ
Sample : Q1194-03
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-113-SB01

Integration File: autoint1.e
Quant Time: Jan 29 00:50:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7533896	57.075 ug/ml
Spiked Amount 50.000		Recovery = 114.15%	
6) S 2-Flurobiphenyl (SURR)	8.866	4747058	56.239 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.48%	
11) S ortho-Terphenyl (SURR)	11.931	7699111	44.725 ug/ml
Spiked Amount 50.000		Recovery = 89.45%	
Target Compounds			

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

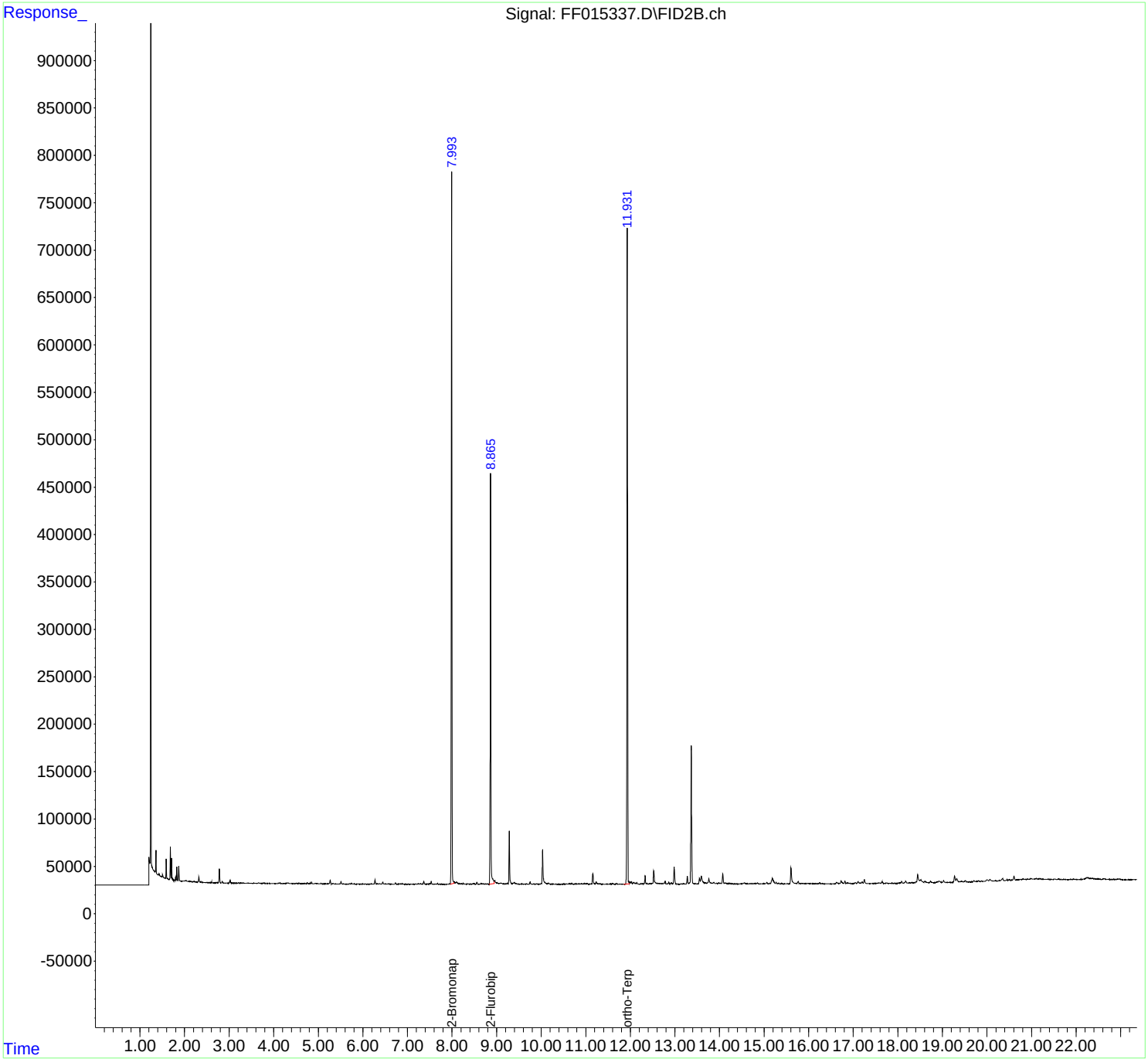
Quantitation Report (QT Reviewed)

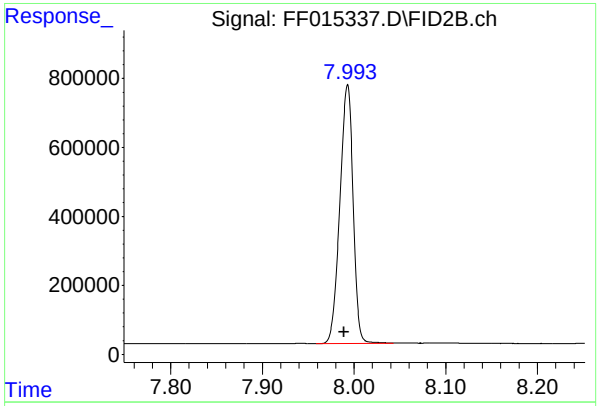
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015337.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:05
Operator : YP\AJ
Sample : Q1194-03
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-113-SB01

Integration File: autoint1.e
Quant Time: Jan 29 00:50:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

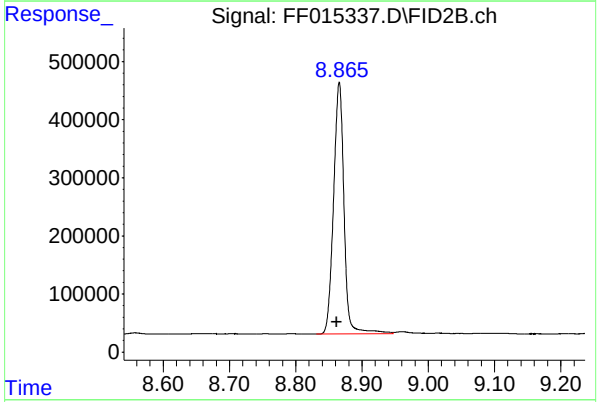




#4 2-Bromonaphthalene (SURR)

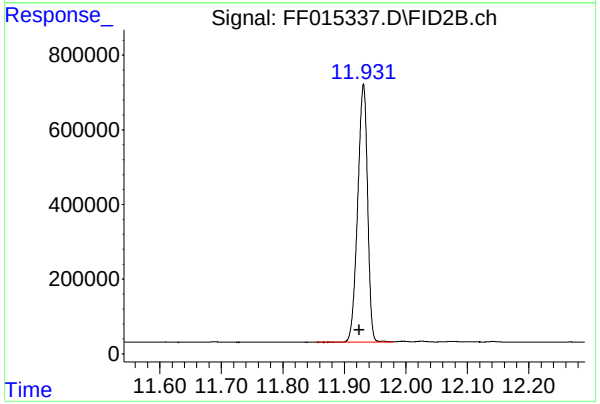
R.T.: 7.993 min
Delta R.T.: 0.004 min
Response: 7533896
Conc: 57.07 ug/ml

Instrument :
FID_F
ClientSampleId :
B-113-SB01



#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.004 min
Response: 4747058
Conc: 56.24 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.931 min
Delta R.T.: 0.006 min
Response: 7699111
Conc: 44.72 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015337.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:05
Sample : Q1194-03
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.456	4.421	4.469	BV	204	2103	0.03%	0.007%
2	4.513	4.482	4.536	PV	347	5212	0.07%	0.018%
3	4.566	4.536	4.594	VV	1029	12923	0.17%	0.044%
4	4.604	4.594	4.632	VV	206	2960	0.04%	0.010%
5	4.651	4.642	4.671	VV	162	1804	0.02%	0.006%
6	4.694	4.671	4.716	VV	454	4484	0.06%	0.015%
7	4.755	4.716	4.776	PV	1170	15206	0.20%	0.052%
8	4.787	4.776	4.802	VV	176	1700	0.02%	0.006%
9	4.817	4.802	4.834	VV	831	8699	0.11%	0.030%
10	4.851	4.834	4.876	VV	1705	17634	0.23%	0.060%
11	4.932	4.891	4.965	VV	700	14407	0.19%	0.049%
12	4.970	4.965	4.976	VV	332	2044	0.03%	0.007%
13	4.981	4.976	5.026	VV	378	5654	0.07%	0.019%
14	5.060	5.041	5.099	VV	520	6835	0.09%	0.023%
15	5.182	5.167	5.212	VV	202	3258	0.04%	0.011%
16	5.244	5.212	5.249	VV	588	6207	0.08%	0.021%
17	5.267	5.249	5.309	VV	4099	48612	0.63%	0.166%
18	5.330	5.309	5.373	VV	814	12154	0.16%	0.042%
19	5.390	5.373	5.442	VV	251	3890	0.05%	0.013%
20	5.476	5.442	5.489	VV	241	2822	0.04%	0.010%
21	5.510	5.489	5.547	VV	2630	30480	0.40%	0.104%
22	5.560	5.547	5.577	VV	227	2785	0.04%	0.010%
23	5.579	5.577	5.601	VV	175	1064	0.01%	0.004%
24	5.611	5.601	5.635	VV	131	1005	0.01%	0.003%
25	5.665	5.635	5.681	PV	211	3197	0.04%	0.011%
26	5.701	5.681	5.719	VV	711	8515	0.11%	0.029%
27	5.747	5.719	5.770	VV	1280	19392	0.25%	0.066%
28	5.784	5.770	5.789	VV	161	1361	0.02%	0.005%
29	5.806	5.789	5.838	VV	367	4839	0.06%	0.017%
30	5.868	5.856	5.879	VV	114	1335	0.02%	0.005%
31	5.894	5.879	5.941	VV	293	5322	0.07%	0.018%
32	5.967	5.941	5.981	VV	246	3878	0.05%	0.013%
33	5.993	5.981	6.004	VV	358	3675	0.05%	0.013%
34	6.014	6.004	6.031	VV	291	3605	0.05%	0.012%
35	6.050	6.031	6.072	VV	401	5557	0.07%	0.019%
36	6.086	6.081	6.162	VV	200	4262	0.06%	0.015%

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37	6.187	6.162	6.207	VV	378	6378	0.08%	0.022%
38	6.226	6.207	6.247	VV	286	5530	0.07%	0.019%
39	6.272	6.247	6.302	VV	4687	53945	0.70%	0.185%
40	6.309	6.302	6.324	VV	481	5512	0.07%	0.019%
41	6.332	6.324	6.354	VV	450	6799	0.09%	0.023%
42	6.379	6.354	6.406	VV	882	13870	0.18%	0.047%
43	6.410	6.406	6.423	VV	285	2342	0.03%	0.008%
44	6.448	6.423	6.490	VV	2368	33536	0.44%	0.115%
45	6.518	6.490	6.532	VV	496	9219	0.12%	0.032%
46	6.547	6.532	6.556	VV	376	4415	0.06%	0.015%
47	6.574	6.556	6.637	VV	776	14673	0.19%	0.050%
48	6.648	6.637	6.681	VV	265	4120	0.05%	0.014%
49	6.691	6.681	6.696	VV	128	1008	0.01%	0.003%
50	6.732	6.710	6.757	PV	1629	18353	0.24%	0.063%
51	6.769	6.757	6.789	VV	250	3641	0.05%	0.012%
52	6.817	6.789	6.836	VV	645	9047	0.12%	0.031%
53	6.853	6.836	6.866	VV	481	5060	0.07%	0.017%
54	6.885	6.866	6.907	VV	1060	12006	0.16%	0.041%
55	6.919	6.907	6.941	VV	322	3001	0.04%	0.010%
56	6.961	6.941	6.987	PV	590	6418	0.08%	0.022%
57	6.998	6.987	7.003	PV	169	1037	0.01%	0.004%
58	7.012	7.003	7.035	VV	241	2221	0.03%	0.008%
59	7.063	7.035	7.089	VV	367	6066	0.08%	0.021%
60	7.116	7.102	7.153	VV	389	6736	0.09%	0.023%
61	7.185	7.165	7.221	VV	736	10135	0.13%	0.035%
62	7.240	7.221	7.272	VV	844	15623	0.20%	0.053%
63	7.290	7.272	7.339	VV	851	18419	0.24%	0.063%
64	7.368	7.339	7.403	VV	3103	45365	0.59%	0.155%
65	7.409	7.403	7.425	VV	352	3537	0.05%	0.012%
66	7.429	7.425	7.437	VV	243	1621	0.02%	0.006%
67	7.452	7.437	7.470	VV	655	8742	0.11%	0.030%
68	7.476	7.470	7.488	VV	401	3457	0.04%	0.012%
69	7.504	7.488	7.517	VV	1156	12586	0.16%	0.043%
70	7.534	7.517	7.574	VV	2879	34470	0.45%	0.118%
71	7.594	7.574	7.605	VV	494	5768	0.07%	0.020%
72	7.620	7.605	7.631	VV	458	5887	0.08%	0.020%
73	7.643	7.631	7.657	VV	445	5268	0.07%	0.018%
74	7.676	7.657	7.704	VV	1063	13029	0.17%	0.045%
75	7.712	7.704	7.725	VV	145	1393	0.02%	0.005%
76	7.743	7.725	7.759	VV	440	5529	0.07%	0.019%
77	7.771	7.759	7.791	VV	497	5395	0.07%	0.018%
78	7.848	7.846	7.871	VV	121	1383	0.02%	0.005%
79	7.893	7.879	7.903	VV	252	2475	0.03%	0.008%
80	7.911	7.903	7.923	VV	214	2155	0.03%	0.007%
81	7.943	7.923	7.959	VV	985	11450	0.15%	0.039%
82	7.993	7.959	8.042	VV	749318	7569082	98.40%	25.893%
83	8.052	8.042	8.074	VV	2562	40337	0.52%	0.138%
84	8.102	8.074	8.160	VV	2311	76795	1.00%	0.263%
85	8.166	8.160	8.184	VV	875	10841	0.14%	0.037%
86	8.205	8.184	8.232	VV	702	16530	0.21%	0.057%
87	8.250	8.232	8.282	VV	1056	20303	0.26%	0.069%
88	8.286	8.282	8.297	VV	443	3767	0.05%	0.013%
89	8.305	8.297	8.327	VV	465	6941	0.09%	0.024%

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90	8.365	8.327	8.369	VV	509	9634	0.13%	0.033%
91	8.374	8.369	8.415	VV	527	8875	0.12%	0.030%
92	8.457	8.415	8.463	VV	532	8897	0.12%	0.030%
93	8.466	8.463	8.469	VV	526	1863	0.02%	0.006%
94	8.482	8.469	8.496	VV	776	10308	0.13%	0.035%
95	8.506	8.496	8.526	VV	638	8520	0.11%	0.029%
96	8.558	8.526	8.614	VV	2291	36748	0.48%	0.126%
97	8.667	8.614	8.689	VV	819	25340	0.33%	0.087%
98	8.704	8.689	8.737	VV	637	11488	0.15%	0.039%
99	8.755	8.737	8.776	VV	699	9196	0.12%	0.031%
100	8.792	8.776	8.824	VV	736	9996	0.13%	0.034%
101	8.866	8.824	8.947	PV	433940	4786426	62.22%	16.374%
102	8.961	8.947	9.005	VV	4269	89741	1.17%	0.307%
103	9.014	9.005	9.041	VV	1709	29798	0.39%	0.102%
104	9.050	9.041	9.061	VV	1145	12526	0.16%	0.043%
105	9.076	9.061	9.084	VV	1233	15750	0.20%	0.054%
106	9.098	9.084	9.144	VV	1377	36455	0.47%	0.125%
107	9.164	9.144	9.179	VV	632	10613	0.14%	0.036%
108	9.211	9.179	9.225	VV	918	16827	0.22%	0.058%
109	9.242	9.225	9.259	VV	1432	19757	0.26%	0.068%
110	9.286	9.259	9.351	VV	56362	618884	8.05%	2.117%
111	9.365	9.351	9.373	VV	1326	14674	0.19%	0.050%
112	9.400	9.373	9.426	VV	2263	45249	0.59%	0.155%
113	9.438	9.426	9.457	VV	1121	15067	0.20%	0.052%
114	9.472	9.457	9.502	VV	611	9410	0.12%	0.032%
115	9.525	9.502	9.548	VV	491	8501	0.11%	0.029%
116	9.569	9.548	9.597	VV	558	10635	0.14%	0.036%
117	9.615	9.597	9.639	VV	466	8611	0.11%	0.029%
118	9.669	9.639	9.704	VV	567	12391	0.16%	0.042%
119	9.715	9.704	9.729	VV	199	2568	0.03%	0.009%
120	9.753	9.729	9.802	VV	2667	37659	0.49%	0.129%
121	9.829	9.802	9.865	VV	578	11656	0.15%	0.040%
122	9.898	9.865	9.927	VV	740	15579	0.20%	0.053%
123	9.944	9.927	9.950	VV	314	3688	0.05%	0.013%
124	9.968	9.950	9.980	VV	458	6765	0.09%	0.023%
125	10.001	9.980	10.010	VV	1238	13763	0.18%	0.047%
126	10.032	10.010	10.145	VV	36815	522081	6.79%	1.786%
127	10.166	10.145	10.215	VV	1374	29470	0.38%	0.101%
128	10.236	10.215	10.256	VV	596	10524	0.14%	0.036%
129	10.262	10.256	10.269	VV	353	2412	0.03%	0.008%
130	10.272	10.269	10.296	VV	297	3452	0.04%	0.012%
131	10.312	10.296	10.329	VV	235	3346	0.04%	0.011%
132	10.335	10.329	10.382	VV	239	3917	0.05%	0.013%
133	10.399	10.382	10.421	VV	303	2815	0.04%	0.010%
134	10.445	10.429	10.460	VV	204	2166	0.03%	0.007%
135	10.496	10.460	10.525	VV	570	12106	0.16%	0.041%
136	10.557	10.525	10.573	VV	562	9515	0.12%	0.033%
137	10.592	10.573	10.616	VV	490	9973	0.13%	0.034%
138	10.639	10.616	10.664	VV	793	16116	0.21%	0.055%
139	10.686	10.664	10.708	VV	1377	17921	0.23%	0.061%
140	10.718	10.708	10.741	VV	331	5256	0.07%	0.018%
141	10.756	10.741	10.776	VV	636	10881	0.14%	0.037%

142	10.788	10.776	10.812	VV	600	9999	0.13%	0.034%
143	10.843	10.812	10.871	VV	603	17064	0.22%	0.058%
144	10.903	10.871	10.912	VV	649	12510	0.16%	0.043%
145	10.924	10.912	10.940	VV	587	7403	0.10%	0.025%
146	10.963	10.940	10.981	VV	955	15564	0.20%	0.053%
147	10.987	10.981	11.007	VV	671	8934	0.12%	0.031%
148	11.031	11.007	11.078	VV	1213	26356	0.34%	0.090%
149	11.095	11.078	11.106	VV	407	5045	0.07%	0.017%
150	11.125	11.106	11.134	VV	500	6824	0.09%	0.023%
151	11.158	11.134	11.211	VV	11360	156836	2.04%	0.537%
152	11.236	11.211	11.272	VV	2706	45087	0.59%	0.154%
153	11.275	11.272	11.297	VV	513	6564	0.09%	0.022%
154	11.299	11.297	11.307	VV	466	2077	0.03%	0.007%
155	11.332	11.307	11.352	VV	653	11394	0.15%	0.039%
156	11.360	11.352	11.414	VV	320	5452	0.07%	0.019%
157	11.465	11.426	11.501	VV	486	8563	0.11%	0.029%
158	11.541	11.512	11.567	VV	671	11380	0.15%	0.039%
159	11.584	11.567	11.593	VV	526	5917	0.08%	0.020%
160	11.609	11.593	11.631	VV	844	10977	0.14%	0.038%
161	11.658	11.631	11.663	VV	258	3015	0.04%	0.010%
162	11.691	11.663	11.726	VV	980	17364	0.23%	0.059%
163	11.768	11.726	11.784	PV	409	6417	0.08%	0.022%
164	11.810	11.784	11.841	VV	337	5809	0.08%	0.020%
165	11.849	11.841	11.882	VV	137	1244	0.02%	0.004%
166	11.931	11.882	11.958	PV	690744	7692164	100.00%	26.314%
167	11.963	11.958	11.979	VV	2786	26725	0.35%	0.091%
168	11.996	11.979	12.011	VV	2630	36259	0.47%	0.124%
169	12.026	12.011	12.049	VV	2802	39740	0.52%	0.136%
170	12.076	12.049	12.099	VV	2196	43159	0.56%	0.148%
171	12.112	12.099	12.127	VV	1353	18002	0.23%	0.062%
172	12.143	12.127	12.195	VV	1794	30612	0.40%	0.105%
173	12.215	12.195	12.222	VV	378	4979	0.06%	0.017%
174	12.267	12.222	12.292	VV	851	23237	0.30%	0.079%
175	12.331	12.292	12.358	VV	9095	114630	1.49%	0.392%
176	12.373	12.358	12.394	VV	952	14317	0.19%	0.049%
177	12.438	12.394	12.465	VV	1100	24517	0.32%	0.084%
178	12.523	12.465	12.592	VV	14287	247377	3.22%	0.846%
179	12.606	12.592	12.623	VV	1187	17771	0.23%	0.061%
180	12.632	12.623	12.650	VV	935	12892	0.17%	0.044%
181	12.663	12.650	12.667	VV	756	7419	0.10%	0.025%
182	12.685	12.667	12.723	VV	871	24069	0.31%	0.082%
183	12.727	12.723	12.742	VV	561	6240	0.08%	0.021%
184	12.780	12.742	12.814	VV	3405	60984	0.79%	0.209%
185	12.861	12.814	12.885	VV	2157	38183	0.50%	0.131%
186	12.918	12.885	12.945	VV	1738	33132	0.43%	0.113%
187	12.982	12.945	13.029	VV	18156	259336	3.37%	0.887%
188	13.041	13.029	13.064	VV	333	5098	0.07%	0.017%
189	13.069	13.064	13.087	VV	173	2113	0.03%	0.007%
190	13.111	13.100	13.116	VV	145	1149	0.01%	0.004%
191	13.145	13.116	13.156	VV	330	5108	0.07%	0.017%
192	13.171	13.156	13.187	VV	520	7080	0.09%	0.024%
193	13.198	13.187	13.251	VV	497	11487	0.15%	0.039%
194	13.276	13.251	13.306	VV	8450	104038	1.35%	0.356%

rteres

195	13.365	13.306	13.444	VV	146027	1842488	23.95%	6.303%
196	13.453	13.444	13.459	VV	571	4716	0.06%	0.016%
197	13.461	13.459	13.473	VV	528	3634	0.05%	0.012%
198	13.486	13.473	13.512	VV	495	7824	0.10%	0.027%
199	13.548	13.512	13.569	VV	6273	100009	1.30%	0.342%
200	13.592	13.569	13.696	VV	8567	250401	3.26%	0.857%
201	13.699	13.696	13.716	VV	1070	11842	0.15%	0.041%
202	13.759	13.716	13.841	VV	5888	153159	1.99%	0.524%
203	13.870	13.841	13.917	VV	2000	52833	0.69%	0.181%
204	13.939	13.917	13.957	VV	932	17112	0.22%	0.059%
205	13.981	13.957	14.001	VV	1508	27075	0.35%	0.093%
206	14.018	14.001	14.041	VV	1065	19163	0.25%	0.066%
207	14.071	14.041	14.102	VV	11044	155324	2.02%	0.531%
208	14.120	14.102	14.134	VV	1352	20282	0.26%	0.069%
209	14.145	14.134	14.169	VV	1166	17221	0.22%	0.059%
210	14.186	14.169	14.205	VV	823	13680	0.18%	0.047%
211	14.226	14.205	14.261	VV	1049	20249	0.26%	0.069%
212	14.278	14.261	14.307	VV	690	11877	0.15%	0.041%
213	14.314	14.307	14.336	VV	361	5001	0.07%	0.017%
214	14.370	14.336	14.403	VV	409	10958	0.14%	0.037%
215	14.409	14.403	14.429	VV	246	2550	0.03%	0.009%
216	14.452	14.429	14.474	VV	323	6330	0.08%	0.022%
217	14.477	14.474	14.492	VV	265	2552	0.03%	0.009%
218	14.514	14.492	14.523	VV	747	9556	0.12%	0.033%
219	14.525	14.523	14.536	VV	656	4476	0.06%	0.015%
220	14.557	14.536	14.603	VV	1398	34874	0.45%	0.119%
221	14.606	14.603	14.659	VV	606	14225	0.18%	0.049%
222	14.681	14.659	14.703	VV	575	10560	0.14%	0.036%
223	14.718	14.703	14.738	VV	485	7953	0.10%	0.027%
224	14.746	14.738	14.769	VV	412	6710	0.09%	0.023%
225	14.787	14.769	14.821	VV	684	16021	0.21%	0.055%
226	14.849	14.821	14.877	VV	1188	23812	0.31%	0.081%
227	14.882	14.877	14.911	VV	388	5790	0.08%	0.020%
228	14.918	14.911	14.937	VV	342	4789	0.06%	0.016%
229	14.942	14.937	14.956	VV	341	3343	0.04%	0.011%
230	14.989	14.956	14.996	VV	452	8305	0.11%	0.028%
231	15.001	14.996	15.017	VV	489	5271	0.07%	0.018%
232	15.061	15.017	15.104	VV	1831	36214	0.47%	0.124%
233	15.124	15.104	15.142	VV	638	10379	0.13%	0.036%
234	15.183	15.142	15.248	VV	6093	183110	2.38%	0.626%
235	15.269	15.248	15.301	VV	1711	29472	0.38%	0.101%
236	15.323	15.301	15.371	VV	855	17521	0.23%	0.060%
237	15.395	15.371	15.452	VV	631	15781	0.21%	0.054%
238	15.465	15.452	15.494	VV	266	4640	0.06%	0.016%
239	15.524	15.494	15.569	VV	501	11231	0.15%	0.038%
240	15.602	15.569	15.689	VV	17226	308769	4.01%	1.056%
241	15.695	15.689	15.719	VV	676	10879	0.14%	0.037%
242	15.763	15.719	15.787	VV	2758	51316	0.67%	0.176%
243	15.803	15.787	15.821	VV	494	8210	0.11%	0.028%
244	15.840	15.821	15.861	VV	740	12572	0.16%	0.043%
245	15.876	15.861	15.905	VV	586	11417	0.15%	0.039%
246	15.922	15.905	15.931	VV	325	4376	0.06%	0.015%

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247	15.958	15.931	15.992	VV	499	14285	0.19%	0.049%
248	16.004	15.992	16.056	VV	476	12000	0.16%	0.041%
249	16.070	16.056	16.097	VV	474	8216	0.11%	0.028%
250	16.105	16.097	16.109	VV	336	2291	0.03%	0.008%
251	16.123	16.109	16.154	VV	511	9746	0.13%	0.033%
252	16.175	16.154	16.187	VV	369	5483	0.07%	0.019%
253	16.208	16.187	16.225	VV	461	7680	0.10%	0.026%
254	16.247	16.225	16.279	VV	1450	21148	0.27%	0.072%
255	16.307	16.279	16.337	VV	507	8251	0.11%	0.028%
256	16.359	16.337	16.367	VV	118	1135	0.01%	0.004%
257	16.386	16.367	16.420	VV	211	4314	0.06%	0.015%
258	16.442	16.420	16.472	VV	248	4719	0.06%	0.016%
259	16.534	16.512	16.538	PV	154	1173	0.02%	0.004%
260	16.549	16.538	16.573	VV	181	2590	0.03%	0.009%
261	16.622	16.573	16.687	PV	1713	42920	0.56%	0.147%
262	16.693	16.687	16.700	VV	493	3490	0.05%	0.012%
263	16.727	16.700	16.787	VV	3130	75995	0.99%	0.260%
264	16.813	16.787	16.840	VV	2951	45161	0.59%	0.154%
265	16.871	16.840	16.922	VV	1065	32148	0.42%	0.110%
266	16.925	16.922	16.954	VV	485	6575	0.09%	0.022%
267	16.958	16.954	16.967	VV	227	1674	0.02%	0.006%
268	16.971	16.967	16.994	VV	198	2952	0.04%	0.010%
269	17.044	16.994	17.069	VV	1359	27641	0.36%	0.095%
270	17.106	17.069	17.144	VV	2159	47524	0.62%	0.163%
271	17.149	17.144	17.153	VV	714	3820	0.05%	0.013%
272	17.164	17.153	17.177	VV	868	10998	0.14%	0.038%
273	17.199	17.177	17.222	VV	2000	32028	0.42%	0.110%
274	17.248	17.222	17.307	VV	4687	76238	0.99%	0.261%
275	17.312	17.307	17.319	VV	232	1311	0.02%	0.004%
276	17.346	17.331	17.353	VV	220	1787	0.02%	0.006%
277	17.384	17.368	17.399	VV	184	2143	0.03%	0.007%
278	17.412	17.399	17.441	VV	171	2633	0.03%	0.009%
279	17.483	17.449	17.499	PV	296	5418	0.07%	0.019%
280	17.531	17.499	17.548	VV	589	11489	0.15%	0.039%
281	17.566	17.548	17.587	VV	882	15470	0.20%	0.053%
282	17.602	17.587	17.612	VV	610	8450	0.11%	0.029%
283	17.616	17.612	17.621	VV	551	2674	0.03%	0.009%
284	17.647	17.621	17.677	VV	2025	33988	0.44%	0.116%
285	17.703	17.677	17.712	VV	305	4893	0.06%	0.017%
286	17.756	17.712	17.798	VV	603	19215	0.25%	0.066%
287	17.825	17.798	17.839	VV	264	4990	0.06%	0.017%
288	17.871	17.839	17.906	VV	371	9027	0.12%	0.031%
289	17.922	17.906	17.951	VV	268	4513	0.06%	0.015%
290	17.954	17.951	17.972	VV	120	1001	0.01%	0.003%
291	18.020	17.992	18.036	PV	353	6040	0.08%	0.021%
292	18.087	18.036	18.119	VV	2055	37988	0.49%	0.130%
293	18.177	18.119	18.226	VV	2243	48368	0.63%	0.165%
294	18.263	18.226	18.282	VV	413	8719	0.11%	0.030%
295	18.316	18.282	18.342	VV	568	12174	0.16%	0.042%
296	18.362	18.342	18.381	VV	521	7696	0.10%	0.026%
297	18.408	18.381	18.419	VV	1490	20298	0.26%	0.069%
298	18.444	18.419	18.494	VV	8650	190117	2.47%	0.650%
299	18.515	18.494	18.581	VV	3467	102153	1.33%	0.349%

rteres

300	18.606	18.581	18.680	VV	1984	51163	0.67%	0.175%
301	18.730	18.701	18.779	PV	1425	29091	0.38%	0.100%
302	18.780	18.779	18.801	VBA	221	1398	0.02%	0.005%

Sum of corrected areas: 29231772

Aromatic EPH 011425.M Wed Jan 29 02:06:24 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB01	SDG No.:	Q1194
Lab Sample ID:	Q1194-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015194.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.44	U	0.44	1.15	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.56	J	0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		2.78		0.35	1.15	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.92	U	0.92	1.53	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.07	U	2.07	2.30	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.8		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-03	Acq On:	28 Jan 2025 21:05
Client Sample ID:	B-113-SB01	Operator:	YP\AJ
Data file:	FG015194.D	Misc:	
Instrument:	FID_G	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	414680	3.121	300	ug/ml
Aliphatic C12-C16	6.821	10.273	1038349	7.353	200	ug/ml
Aliphatic C16-C21	10.274	13.656	5241753	36.27	300	ug/ml
Aliphatic C21-C28	13.657	17.330	604974	4.425	400	ug/ml
Aliphatic C28-C40	17.331	22.272	1486162	14.075	600	ug/ml
Aliphatic EPH	3.178	22.272	8785918	65.244		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.385	13.385	4607301	37.84		ug/ml
Aliphatic C9-C28	3.178	17.330	7299756	51.169	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015194.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:05
Operator : YP\AJ
Sample : Q1194-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-113-SB01

Integration File: autoint1.e
Quant Time: Jan 29 02:38:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.385	4607301	37.839 ug/ml
Spiked Amount 50.000		Recovery = 75.68%	
Target Compounds			

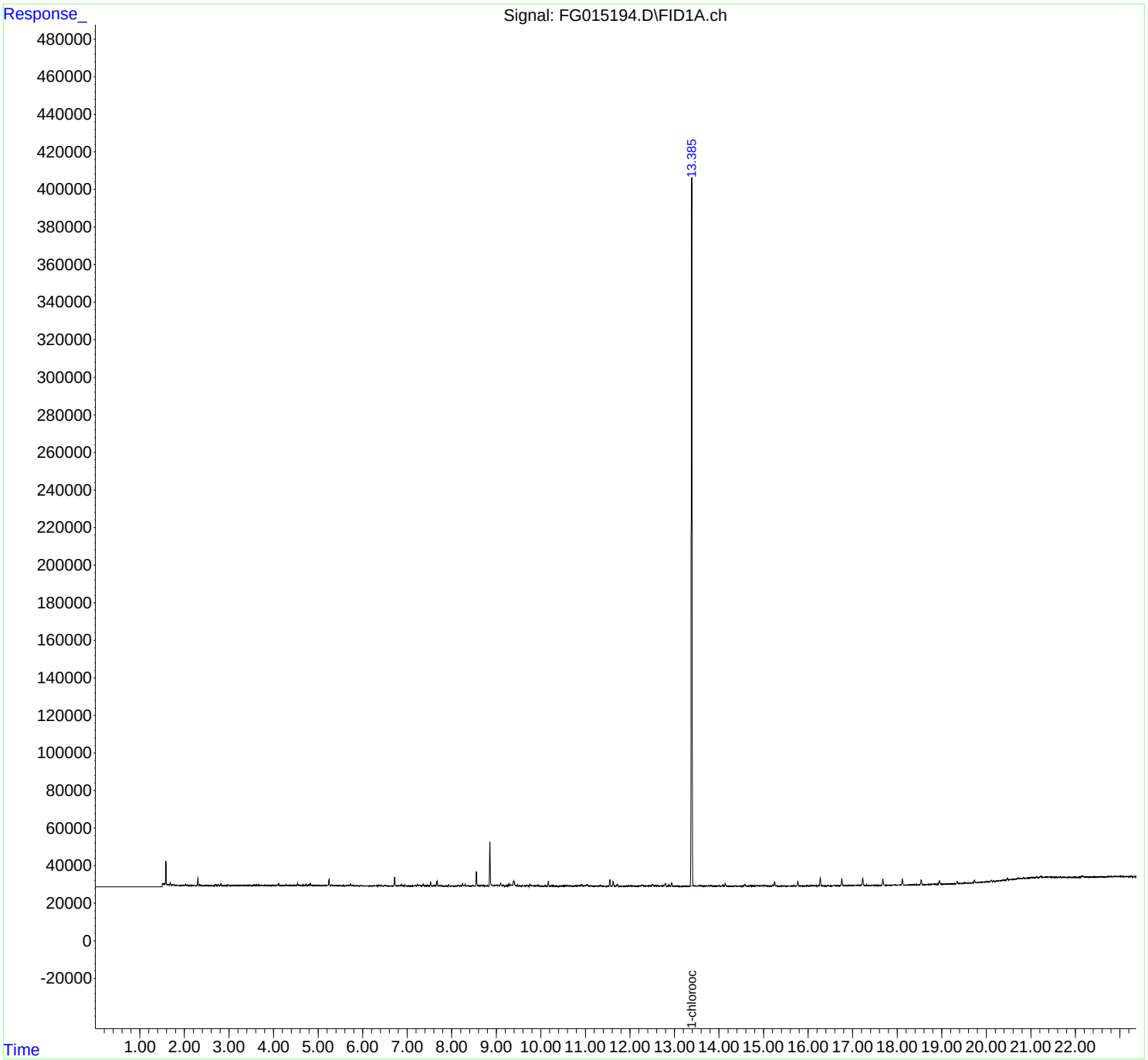
(f)=RT Delta > 1/2 Window (m)=manual int.

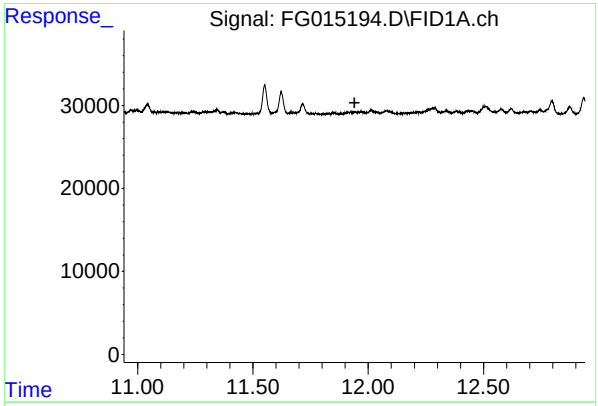
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015194.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:05
Operator : YP\AJ
Sample : Q1194-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-113-SB01

Integration File: autoint1.e
Quant Time: Jan 29 02:38:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

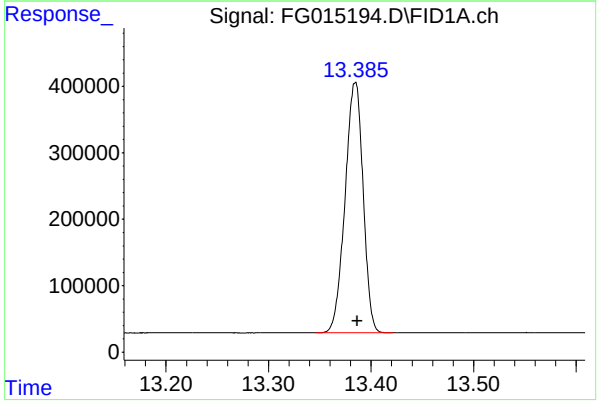




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.940 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
B-113-SB01



#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: -0.002 min
Response: 4607301
Conc: 37.84 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015194.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:05
Sample : Q1194-03
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.282	3.222	3.315	BV	214	2183	0.05%	0.025%
2	3.328	3.315	3.345	VV	93	1066	0.02%	0.012%
3	3.364	3.345	3.418	PV	74	1785	0.04%	0.020%
4	3.428	3.418	3.442	VV	130	922	0.02%	0.010%
5	3.482	3.442	3.501	VV	140	3526	0.08%	0.040%
6	3.519	3.501	3.573	VV	167	4982	0.11%	0.057%
7	3.620	3.573	3.654	VV	193	6997	0.15%	0.080%
8	3.673	3.654	3.708	VV	277	5351	0.12%	0.061%
9	3.730	3.708	3.750	VV	178	3302	0.07%	0.038%
10	3.757	3.750	3.776	VV	136	1538	0.03%	0.017%
11	3.810	3.776	3.837	VV	116	3015	0.07%	0.034%
12	3.865	3.837	3.955	VV	118	6927	0.15%	0.079%
13	3.975	3.955	3.988	VV	139	1959	0.04%	0.022%
14	4.023	3.988	4.034	VV	132	2583	0.06%	0.029%
15	4.080	4.034	4.094	VV	396	6643	0.14%	0.076%
16	4.113	4.094	4.168	VV	826	12218	0.26%	0.139%
17	4.191	4.168	4.219	VV	198	4026	0.09%	0.046%
18	4.285	4.219	4.327	VV	661	16450	0.36%	0.187%
19	4.337	4.327	4.346	VV	179	1640	0.04%	0.019%
20	4.352	4.346	4.359	VV	146	1114	0.02%	0.013%
21	4.367	4.359	4.385	VV	173	2264	0.05%	0.026%
22	4.393	4.385	4.411	VV	185	2232	0.05%	0.025%
23	4.419	4.411	4.429	VV	160	1407	0.03%	0.016%
24	4.438	4.429	4.448	VV	184	1725	0.04%	0.020%
25	4.455	4.448	4.475	VV	222	2658	0.06%	0.030%
26	4.477	4.475	4.517	VV	165	3468	0.08%	0.039%
27	4.539	4.517	4.598	VV	634	14126	0.31%	0.161%
28	4.611	4.598	4.633	VV	185	3227	0.07%	0.037%
29	4.641	4.633	4.650	VV	125	1194	0.03%	0.014%
30	4.667	4.650	4.697	VV	403	6095	0.13%	0.069%
31	4.731	4.697	4.773	VV	1011	16158	0.35%	0.184%
32	4.793	4.773	4.808	VV	750	9182	0.20%	0.104%
33	4.826	4.808	4.888	VV	1434	20451	0.44%	0.233%
34	4.892	4.888	4.904	VV	189	1538	0.03%	0.017%
35	4.952	4.904	4.993	VV	305	10669	0.23%	0.121%
36	5.002	4.993	5.022	VV	201	2864	0.06%	0.033%

rteres

37	5.032	5.022	5.057	VV	223	3677	0.08%	0.042%
38	5.073	5.057	5.109	VV	206	4163	0.09%	0.047%
39	5.136	5.109	5.143	VV	151	2816	0.06%	0.032%
40	5.157	5.143	5.190	VV	276	4693	0.10%	0.053%
41	5.245	5.190	5.282	VV	3367	45559	0.99%	0.518%
42	5.307	5.282	5.347	VV	689	9543	0.21%	0.109%
43	5.363	5.347	5.413	VV	151	3250	0.07%	0.037%
44	5.455	5.413	5.477	VV	189	4162	0.09%	0.047%
45	5.495	5.477	5.527	VV	176	3087	0.07%	0.035%
46	5.541	5.527	5.586	VV	107	2123	0.05%	0.024%
47	5.645	5.586	5.658	VV	159	2825	0.06%	0.032%
48	5.683	5.658	5.705	VV	422	5389	0.12%	0.061%
49	5.728	5.705	5.755	VV	1062	11947	0.26%	0.136%
50	5.762	5.755	5.770	VV	92	727	0.02%	0.008%
51	5.788	5.770	5.842	VV	274	4558	0.10%	0.052%
52	5.868	5.842	5.931	VV	209	5276	0.11%	0.060%
53	5.946	5.931	5.965	VV	104	1425	0.03%	0.016%
54	5.998	5.965	6.032	VV	197	4203	0.09%	0.048%
55	6.059	6.032	6.096	VV	118	2588	0.06%	0.029%
56	6.117	6.096	6.136	VV	84	1079	0.02%	0.012%
57	6.164	6.136	6.186	PV	124	1678	0.04%	0.019%
58	6.216	6.186	6.228	VV	94	1474	0.03%	0.017%
59	6.253	6.228	6.293	VV	255	6181	0.13%	0.070%
60	6.319	6.293	6.343	VV	278	4762	0.10%	0.054%
61	6.363	6.343	6.412	VV	621	9746	0.21%	0.111%
62	6.428	6.412	6.458	VV	251	4390	0.10%	0.050%
63	6.502	6.458	6.538	VV	354	8736	0.19%	0.099%
64	6.544	6.538	6.588	VV	121	2181	0.05%	0.025%
65	6.603	6.588	6.622	VV	137	1707	0.04%	0.019%
66	6.650	6.622	6.672	VV	84	1943	0.04%	0.022%
67	6.719	6.672	6.754	VV	4799	52542	1.14%	0.598%
68	6.806	6.754	6.825	VV	558	8765	0.19%	0.100%
69	6.842	6.825	6.856	VV	357	3927	0.09%	0.045%
70	6.874	6.856	6.894	VV	958	10751	0.23%	0.122%
71	6.908	6.894	6.930	VV	299	3753	0.08%	0.043%
72	6.949	6.930	6.979	VV	477	5467	0.12%	0.062%
73	7.007	6.979	7.068	PV	104	3394	0.07%	0.039%
74	7.100	7.068	7.126	VV	152	3014	0.07%	0.034%
75	7.132	7.126	7.157	VV	101	1044	0.02%	0.012%
76	7.176	7.157	7.205	VV	576	7147	0.15%	0.081%
77	7.230	7.205	7.246	VV	655	9231	0.20%	0.105%
78	7.254	7.246	7.265	VV	376	3841	0.08%	0.044%
79	7.283	7.265	7.322	VV	624	12759	0.28%	0.145%
80	7.361	7.322	7.388	VV	1022	16850	0.36%	0.192%
81	7.398	7.388	7.422	VV	237	2850	0.06%	0.032%
82	7.444	7.422	7.501	VV	313	8058	0.17%	0.092%
83	7.527	7.501	7.562	VV	2298	27049	0.59%	0.308%
84	7.605	7.562	7.620	VV	320	7468	0.16%	0.085%
85	7.636	7.620	7.648	VV	446	4626	0.10%	0.053%
86	7.670	7.648	7.694	VV	2620	29456	0.64%	0.335%
87	7.708	7.694	7.716	VV	231	2278	0.05%	0.026%
88	7.734	7.716	7.752	VV	331	4884	0.11%	0.056%
89	7.763	7.752	7.808	VV	473	7001	0.15%	0.080%

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90	7.847	7.808	7.865	VV	196	4498	0.10%	0.051%
91	7.883	7.865	7.908	VV	144	1890	0.04%	0.021%
92	7.937	7.908	7.967	PV	912	10768	0.23%	0.122%
93	7.988	7.967	8.007	VV	172	2570	0.06%	0.029%
94	8.019	8.007	8.072	VV	190	4234	0.09%	0.048%
95	8.103	8.072	8.118	VV	240	3894	0.08%	0.044%
96	8.132	8.118	8.147	VV	374	4562	0.10%	0.052%
97	8.159	8.147	8.178	VV	336	3695	0.08%	0.042%
98	8.202	8.178	8.222	VV	521	6165	0.13%	0.070%
99	8.247	8.222	8.282	VV	1490	18059	0.39%	0.205%
100	8.304	8.282	8.328	VV	1271	14281	0.31%	0.162%
101	8.343	8.328	8.356	VV	252	3217	0.07%	0.037%
102	8.375	8.356	8.392	VV	548	6841	0.15%	0.078%
103	8.404	8.392	8.437	VV	196	3988	0.09%	0.045%
104	8.460	8.437	8.526	VV	653	11061	0.24%	0.126%
105	8.555	8.526	8.588	VV	7805	85000	1.84%	0.967%
106	8.597	8.588	8.626	VV	308	5521	0.12%	0.063%
107	8.653	8.626	8.688	VV	644	14940	0.32%	0.170%
108	8.706	8.688	8.728	VV	534	7974	0.17%	0.091%
109	8.752	8.728	8.778	VV	486	7046	0.15%	0.080%
110	8.793	8.778	8.819	VV	528	6818	0.15%	0.078%
111	8.858	8.819	8.942	VV	23658	268674	5.82%	3.056%
112	8.977	8.942	8.994	VV	542	13757	0.30%	0.156%
113	9.014	8.994	9.035	VV	689	12902	0.28%	0.147%
114	9.051	9.035	9.072	VV	827	11459	0.25%	0.130%
115	9.099	9.072	9.137	VV	1593	30684	0.66%	0.349%
116	9.160	9.137	9.198	VV	464	9962	0.22%	0.113%
117	9.218	9.198	9.236	VV	413	5988	0.13%	0.068%
118	9.252	9.236	9.265	VV	434	5149	0.11%	0.059%
119	9.284	9.265	9.304	VV	1328	18141	0.39%	0.206%
120	9.323	9.304	9.365	VV	1028	24695	0.53%	0.281%
121	9.388	9.365	9.458	VV	2709	64369	1.39%	0.732%
122	9.475	9.458	9.496	VV	674	9170	0.20%	0.104%
123	9.525	9.496	9.555	VV	470	8201	0.18%	0.093%
124	9.578	9.555	9.593	VV	257	4484	0.10%	0.051%
125	9.609	9.593	9.618	VV	303	3746	0.08%	0.043%
126	9.627	9.618	9.640	VV	280	3412	0.07%	0.039%
127	9.646	9.640	9.658	VV	231	2268	0.05%	0.026%
128	9.691	9.658	9.730	VV	563	14092	0.31%	0.160%
129	9.758	9.730	9.795	VV	1167	21314	0.46%	0.242%
130	9.810	9.795	9.842	VV	431	8318	0.18%	0.095%
131	9.849	9.842	9.873	VV	417	5073	0.11%	0.058%
132	9.896	9.873	9.924	VV	721	11440	0.25%	0.130%
133	9.949	9.924	10.023	VV	977	16894	0.37%	0.192%
134	10.038	10.023	10.063	VV	189	2877	0.06%	0.033%
135	10.090	10.063	10.143	PV	576	11237	0.24%	0.128%
136	10.170	10.143	10.218	VV	2616	34916	0.76%	0.397%
137	10.247	10.218	10.301	VV	404	13257	0.29%	0.151%
138	10.322	10.301	10.332	VV	216	3400	0.07%	0.039%
139	10.343	10.332	10.370	VV	257	2836	0.06%	0.032%
140	10.391	10.370	10.405	VV	75	915	0.02%	0.010%
141	10.452	10.405	10.470	VV	234	5363	0.12%	0.061%

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142	10.493	10.470	10.512	VV	378	6873	0.15%	0.078%
143	10.519	10.512	10.532	VV	294	3279	0.07%	0.037%
144	10.565	10.532	10.585	VV	710	13786	0.30%	0.157%
145	10.604	10.585	10.628	VV	471	8190	0.18%	0.093%
146	10.656	10.628	10.675	VV	365	7964	0.17%	0.091%
147	10.683	10.675	10.691	VV	234	2042	0.04%	0.023%
148	10.702	10.691	10.747	VV	235	5566	0.12%	0.063%
149	10.776	10.747	10.788	VV	411	6239	0.14%	0.071%
150	10.811	10.788	10.828	VV	360	6568	0.14%	0.075%
151	10.853	10.828	10.878	VV	577	12019	0.26%	0.137%
152	10.914	10.878	10.952	VV	1148	23873	0.52%	0.272%
153	10.973	10.952	10.985	VV	467	7136	0.15%	0.081%
154	10.995	10.985	11.015	VV	476	7639	0.17%	0.087%
155	11.043	11.015	11.101	VV	1171	25699	0.56%	0.292%
156	11.122	11.101	11.153	VV	295	7337	0.16%	0.083%
157	11.169	11.153	11.188	VV	213	3474	0.08%	0.040%
158	11.194	11.188	11.218	VV	189	2998	0.06%	0.034%
159	11.238	11.218	11.271	VV	327	7052	0.15%	0.080%
160	11.288	11.271	11.299	VV	296	4065	0.09%	0.046%
161	11.309	11.299	11.325	VV	289	4293	0.09%	0.049%
162	11.344	11.325	11.360	VV	549	8281	0.18%	0.094%
163	11.371	11.360	11.398	VV	284	3833	0.08%	0.044%
164	11.422	11.398	11.464	VV	256	4769	0.10%	0.054%
165	11.477	11.464	11.488	PV	118	859	0.02%	0.010%
166	11.551	11.488	11.583	VV	3538	49051	1.06%	0.558%
167	11.623	11.583	11.652	VV	2673	38347	0.83%	0.436%
168	11.666	11.652	11.672	VV	247	2176	0.05%	0.025%
169	11.716	11.672	11.758	VV	1276	20740	0.45%	0.236%
170	11.773	11.758	11.790	VV	119	1211	0.03%	0.014%
171	11.853	11.790	11.884	VV	197	4462	0.10%	0.051%
172	11.944	11.884	11.995	VV	302	14326	0.31%	0.163%
173	12.013	11.995	12.053	VV	515	10595	0.23%	0.120%
174	12.080	12.053	12.128	VV	425	10965	0.24%	0.125%
175	12.287	12.128	12.314	VV	741	34614	0.75%	0.394%
176	12.340	12.314	12.365	VV	402	9267	0.20%	0.105%
177	12.383	12.365	12.406	VV	393	6914	0.15%	0.079%
178	12.433	12.406	12.470	VV	422	12258	0.27%	0.139%
179	12.509	12.470	12.556	VV	925	26896	0.58%	0.306%
180	12.576	12.556	12.600	VV	635	11340	0.25%	0.129%
181	12.620	12.600	12.651	VV	709	11211	0.24%	0.128%
182	12.707	12.651	12.722	VV	452	11880	0.26%	0.135%
183	12.744	12.722	12.760	VV	565	8974	0.19%	0.102%
184	12.797	12.760	12.843	VV	1578	28926	0.63%	0.329%
185	12.874	12.843	12.901	VV	937	13823	0.30%	0.157%
186	12.935	12.901	12.961	VV	1969	27951	0.61%	0.318%
187	12.974	12.961	12.985	VV	224	2881	0.06%	0.033%
188	13.006	12.985	13.038	VV	259	6189	0.13%	0.070%
189	13.055	13.038	13.086	VV	302	5730	0.12%	0.065%
190	13.100	13.086	13.117	VV	124	1325	0.03%	0.015%
191	13.195	13.117	13.203	PV	203	4102	0.09%	0.047%
192	13.213	13.203	13.245	VV	217	4124	0.09%	0.047%
193	13.260	13.245	13.275	VV	171	1951	0.04%	0.022%
194	13.299	13.275	13.309	VV	246	3035	0.07%	0.035%

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195	13.327	13.309	13.334	VV	222	2793	0.06%	0.032%
196	13.384	13.334	13.423	VV	379198	4618909	100.00%	52.532%
197	13.438	13.423	13.500	VV	358	11857	0.26%	0.135%
198	13.515	13.500	13.526	VV	258	3189	0.07%	0.036%
199	13.550	13.526	13.585	VV	490	12188	0.26%	0.139%
200	13.606	13.585	13.644	VV	404	11205	0.24%	0.127%
201	13.666	13.644	13.728	VV	297	10344	0.22%	0.118%
202	13.755	13.728	13.788	VV	352	10185	0.22%	0.116%
203	13.827	13.788	13.875	VV	451	15238	0.33%	0.173%
204	13.890	13.875	13.918	VV	230	4495	0.10%	0.051%
205	13.950	13.918	13.968	VV	236	6022	0.13%	0.068%
206	14.003	13.968	14.031	VV	377	9475	0.21%	0.108%
207	14.043	14.031	14.048	VV	200	1496	0.03%	0.017%
208	14.086	14.048	14.111	VV	688	12969	0.28%	0.147%
209	14.139	14.111	14.182	VV	1600	22790	0.49%	0.259%
210	14.192	14.182	14.215	VV	96	1804	0.04%	0.021%
211	14.225	14.215	14.287	VV	98	2300	0.05%	0.026%
212	14.301	14.287	14.315	PV	76	500	0.01%	0.006%
213	14.353	14.315	14.420	VV	166	7303	0.16%	0.083%
214	14.433	14.420	14.459	VV	149	2625	0.06%	0.030%
215	14.476	14.459	14.498	VV	193	3090	0.07%	0.035%
216	14.512	14.498	14.520	VV	125	1427	0.03%	0.016%
217	14.577	14.520	14.628	VV	1105	23675	0.51%	0.269%
218	14.633	14.628	14.662	VV	244	3921	0.08%	0.045%
219	14.671	14.662	14.680	VV	223	2229	0.05%	0.025%
220	14.705	14.680	14.738	VV	581	10492	0.23%	0.119%
221	14.764	14.738	14.776	VV	240	3746	0.08%	0.043%
222	14.842	14.776	14.888	VV	294	15303	0.33%	0.174%
223	14.901	14.888	14.930	VV	262	5170	0.11%	0.059%
224	14.956	14.930	14.989	VV	230	7090	0.15%	0.081%
225	15.024	14.989	15.040	VV	292	7613	0.16%	0.087%
226	15.053	15.040	15.160	VV	297	11938	0.26%	0.136%
227	15.200	15.160	15.225	VV	590	11939	0.26%	0.136%
228	15.246	15.225	15.368	VV	2459	38404	0.83%	0.437%
229	15.383	15.368	15.395	VV	65	775	0.02%	0.009%
230	15.417	15.395	15.502	VV	277	7061	0.15%	0.080%
231	15.514	15.502	15.534	VV	98	1091	0.02%	0.012%
232	15.552	15.534	15.573	VV	94	1371	0.03%	0.016%
233	15.672	15.573	15.708	PV	254	8122	0.18%	0.092%
234	15.768	15.708	15.805	VV	2487	37060	0.80%	0.421%
235	15.815	15.805	15.852	VV	133	2589	0.06%	0.029%
236	15.869	15.852	15.879	PV	109	715	0.02%	0.008%
237	15.901	15.879	15.922	VV	138	2402	0.05%	0.027%
238	15.952	15.922	15.990	VV	183	5275	0.11%	0.060%
239	15.996	15.990	16.025	VV	143	1906	0.04%	0.022%
240	16.092	16.025	16.117	VV	310	9980	0.22%	0.114%
241	16.129	16.117	16.182	VV	266	5863	0.13%	0.067%
242	16.188	16.182	16.204	VV	72	889	0.02%	0.010%
243	16.231	16.204	16.245	VV	419	5471	0.12%	0.062%
244	16.272	16.245	16.303	VV	4265	59154	1.28%	0.673%
245	16.313	16.303	16.355	VV	204	3352	0.07%	0.038%
246	16.377	16.355	16.389	PV	78	884	0.02%	0.010%

rteres

247	16.413	16.389	16.427	VV	124	1594	0.03%	0.018%
248	16.441	16.427	16.480	VV	146	3111	0.07%	0.035%
249	16.489	16.480	16.509	VV	85	1180	0.03%	0.013%
250	16.517	16.509	16.545	VV	62	658	0.01%	0.007%
251	16.584	16.545	16.618	PV	451	8640	0.19%	0.098%
252	16.633	16.618	16.701	VV	172	5377	0.12%	0.061%
253	16.756	16.701	16.848	VV	3622	57594	1.25%	0.655%
254	16.925	16.848	17.000	VV	316	16503	0.36%	0.188%
255	17.060	17.000	17.081	VV	397	12494	0.27%	0.142%
256	17.130	17.081	17.164	VV	385	14585	0.32%	0.166%
257	17.190	17.164	17.198	VV	568	7682	0.17%	0.087%
258	17.224	17.198	17.265	VV	4018	59720	1.29%	0.679%
259	17.307	17.265	17.382	VV	211	8293	0.18%	0.094%
260	17.388	17.382	17.408	VV	137	1250	0.03%	0.014%
261	17.437	17.408	17.482	VV	352	7021	0.15%	0.080%
262	17.516	17.482	17.540	VV	328	6308	0.14%	0.072%
263	17.559	17.540	17.596	PV	263	4969	0.11%	0.057%
264	17.615	17.596	17.624	VV	103	1419	0.03%	0.016%
265	17.677	17.624	17.712	VV	3318	49127	1.06%	0.559%
266	17.775	17.712	17.808	VV	193	7635	0.17%	0.087%
267	17.818	17.808	17.875	VV	178	5547	0.12%	0.063%
268	17.910	17.875	17.921	VV	174	4237	0.09%	0.048%
269	17.960	17.921	17.981	VV	339	7493	0.16%	0.085%
270	18.006	17.981	18.042	VV	227	5579	0.12%	0.063%
271	18.114	18.042	18.147	VV	3145	52010	1.13%	0.592%
272	18.168	18.147	18.212	VV	131	3276	0.07%	0.037%
273	18.261	18.212	18.350	PV	199	8300	0.18%	0.094%
274	18.387	18.350	18.410	VV	217	4952	0.11%	0.056%
275	18.434	18.410	18.466	VV	279	3933	0.09%	0.045%
276	18.496	18.466	18.507	PV	174	2265	0.05%	0.026%
277	18.538	18.507	18.577	VV	2617	38081	0.82%	0.433%
278	18.616	18.577	18.644	VV	123	3302	0.07%	0.038%
279	18.670	18.644	18.696	VV	157	3310	0.07%	0.038%
280	18.742	18.696	18.764	VV	126	3521	0.08%	0.040%
281	18.798	18.764	18.825	VV	258	5841	0.13%	0.066%
282	18.860	18.825	18.869	VV	167	3512	0.08%	0.040%
283	18.875	18.869	18.882	VV	107	730	0.02%	0.008%
284	18.948	18.882	19.000	VV	2008	37138	0.80%	0.422%
285	19.009	19.000	19.047	VV	94	1729	0.04%	0.020%
286	19.098	19.047	19.128	PV	147	4545	0.10%	0.052%
287	19.143	19.128	19.161	VV	95	1228	0.03%	0.014%
288	19.205	19.161	19.218	PV	110	2478	0.05%	0.028%
289	19.261	19.218	19.278	VV	88	1710	0.04%	0.019%
290	19.346	19.278	19.374	PV	1266	18854	0.41%	0.214%
291	19.386	19.374	19.405	VV	108	1125	0.02%	0.013%
292	19.489	19.405	19.498	VV	171	3109	0.07%	0.035%
293	19.520	19.498	19.564	VV	237	4925	0.11%	0.056%
294	19.608	19.564	19.621	VV	139	3447	0.07%	0.039%
295	19.634	19.621	19.649	VV	124	1704	0.04%	0.019%
296	19.734	19.649	19.762	VV	1318	25887	0.56%	0.294%
297	19.775	19.762	19.812	VV	158	3381	0.07%	0.038%
298	19.850	19.812	19.864	VV	162	3873	0.08%	0.044%
299	19.912	19.864	19.944	VV	261	8193	0.18%	0.093%

rteres

300	19.990	19.944	20.002	VV	299	8244	0.18%	0.094%
301	20.034	20.002	20.068	VV	332	10323	0.22%	0.117%
302	20.110	20.068	20.142	VV	978	20988	0.45%	0.239%
303	20.291	20.142	20.323	VV	558	44235	0.96%	0.503%
304	20.389	20.323	20.418	VV	671	33268	0.72%	0.378%
305	20.476	20.418	20.501	VV	1583	45979	1.00%	0.523%
306	20.535	20.501	20.553	VV	953	27177	0.59%	0.309%
307	20.571	20.553	20.601	VV	893	24693	0.53%	0.281%
308	20.738	20.601	20.778	VV	1335	116493	2.52%	1.325%
309	20.837	20.778	20.883	VV	1450	75719	1.64%	0.861%
310	21.015	20.883	21.048	VV	1492	125304	2.71%	1.425%
311	21.054	21.048	21.087	VV	1354	30509	0.66%	0.347%
312	21.134	21.087	21.152	VV	1324	51255	1.11%	0.583%
313	21.163	21.152	21.187	VV	1346	27139	0.59%	0.309%
314	21.223	21.187	21.258	VV	1880	65098	1.41%	0.740%
315	21.268	21.258	21.298	VV	1294	29739	0.64%	0.338%
316	21.341	21.298	21.405	VV	1239	76273	1.65%	0.867%
317	21.416	21.405	21.495	VV	1137	57062	1.24%	0.649%
318	21.501	21.495	21.534	VV	989	22205	0.48%	0.253%
319	21.564	21.534	21.615	VV	997	42788	0.93%	0.487%
320	21.665	21.615	21.686	VV	869	34386	0.74%	0.391%
321	21.695	21.686	21.769	VV	781	32717	0.71%	0.372%
322	21.781	21.769	21.791	VV	616	7843	0.17%	0.089%
323	21.803	21.791	21.855	VV	632	20726	0.45%	0.236%
324	21.872	21.855	21.881	VV	499	7369	0.16%	0.084%
325	21.894	21.881	21.915	VV	495	8911	0.19%	0.101%
326	21.950	21.915	21.962	VV	453	10956	0.24%	0.125%
327	21.972	21.962	22.020	VV	415	12907	0.28%	0.147%
328	22.047	22.020	22.108	VV	386	17422	0.38%	0.198%
329	22.162	22.108	22.213	VV	922	32951	0.71%	0.375%
330	22.227	22.213	22.254	VV	311	5642	0.12%	0.064%
331	22.264	22.254	22.288	VV	171	2897	0.06%	0.033%
332	22.381	22.288	22.407	VV	138	6197	0.13%	0.070%
333	22.422	22.407	22.430	PV	24	468	0.01%	0.005%

Sum of corrected areas: 8792583

Aliphatic EPH 011425.M Wed Jan 29 03:47:10 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	64.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 21:34	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.59	U	1	0.59	1.54	mg/kg	FG015195.D
Aliphatic C12-C16	Aliphatic C12-C16	1.16		1	0.37	1.03	mg/kg	FG015195.D
Aliphatic C16-C21	Aliphatic C16-C21	3.92		1	0.46	1.54	mg/kg	FG015195.D
Aliphatic C21-C28	Aliphatic C21-C28	1.24	U	1	1.24	2.06	mg/kg	FG015195.D
Aliphatic C28-C40	Aliphatic C28-C40	2.78	U	1	2.78	3.09	mg/kg	FG015195.D
Aromatic C10-C12	Aromatic C10-C12	0.46	U	1	0.46	1.03	mg/kg	FF015338.D
Aromatic C12-C16	Aromatic C12-C16	0.53	U	1	0.53	1.54	mg/kg	FF015338.D
Aromatic C16-C21	Aromatic C16-C21	2.61		1	1.48	2.57	mg/kg	FF015338.D
Aromatic C21-C36	Aromatic C21-C36	3.09	U	1	3.09	4.12	mg/kg	FF015338.D
Total AliphaticEPH	Total AliphaticEPH	5.44	U		5.44	9.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.56	U		5.56	9.26	mg/kg	
Total EPH	Total EPH	11.0	U		11.0	18.5	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	64.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 21:34	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.59	U	1	0.59	1.54	mg/kg	FG015195.D
Aliphatic C12-C16	Aliphatic C12-C16	1.16		1	0.37	1.03	mg/kg	FG015195.D
Aliphatic C16-C21	Aliphatic C16-C21	3.92		1	0.46	1.54	mg/kg	FG015195.D
Aliphatic C21-C28	Aliphatic C21-C28	1.24	U	1	1.24	2.06	mg/kg	FG015195.D
Aliphatic C28-C40	Aliphatic C28-C40	2.78	U	1	2.78	3.09	mg/kg	FG015195.D
Aromatic C10-C12	Aromatic C10-C12	0.46	U	1	0.46	1.03	mg/kg	FF015338.D
Aromatic C12-C16	Aromatic C12-C16	0.53	U	1	0.53	1.54	mg/kg	FF015338.D
Aromatic C16-C21	Aromatic C16-C21	2.61		1	1.48	2.57	mg/kg	FF015338.D
Aromatic C21-C36	Aromatic C21-C36	3.09	U	1	3.09	4.12	mg/kg	FF015338.D
Total AliphaticEPH	Total AliphaticEPH	5.44	U		5.44	9.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.56	U		5.56	9.26	mg/kg	
Total EPH	Total EPH	11.0	U		11.0	18.5	mg/kg	

U = Not Detected
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LOD = Limit of Detection
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	64.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 21:34	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.59	U	1	0.59	1.54	mg/kg	FG015195.D
Aliphatic C12-C16	Aliphatic C12-C16	1.16		1	0.37	1.03	mg/kg	FG015195.D
Aliphatic C16-C21	Aliphatic C16-C21	3.92		1	0.46	1.54	mg/kg	FG015195.D
Aliphatic C21-C28	Aliphatic C21-C28	1.24	U	1	1.24	2.06	mg/kg	FG015195.D
Aliphatic C28-C40	Aliphatic C28-C40	2.78	U	1	2.78	3.09	mg/kg	FG015195.D
Aromatic C10-C12	Aromatic C10-C12	0.46	U	1	0.46	1.03	mg/kg	FF015338.D
Aromatic C12-C16	Aromatic C12-C16	0.53	U	1	0.53	1.54	mg/kg	FF015338.D
Aromatic C16-C21	Aromatic C16-C21	2.61		1	1.48	2.57	mg/kg	FF015338.D
Aromatic C21-C36	Aromatic C21-C36	3.09	U	1	3.09	4.12	mg/kg	FF015338.D
Total AliphaticEPH	Total AliphaticEPH	5.44	U		5.44	9.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.56	U		5.56	9.26	mg/kg	
Total EPH	Total EPH	11.0	U		11.0	18.5	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	64.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015338.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.46	U	0.46	1.03	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.53	U	0.53	1.54	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.61		1.48	2.57	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.09	U	3.09	4.12	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.8		40 - 140	116%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	52.6		40 - 140	105%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.0		40 - 140	80%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-04	Acq On:	28 Jan 2025 21:34
Client Sample ID:	B-113-SB02	Operator:	YP\AJ
Data file:	FF015338.D	Misc:	
Instrument:	FID_F	ALS Vial:	75
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	428014	2.669	200	ug/ml
Aromatic C12-C16	6.356	9.053	699287	4.362	300	ug/ml
Aromatic C16-C21	9.054	13.372	3971986	25.35	500	ug/ml
Aromatic C21-C36	13.373	18.824	2039868	14.011	800	ug/ml
Aromatic EPH	4.485	18.824	7139155	46.391		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7626767	57.78		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	4437221	52.57		ug/ml
ortho-Terphenyl (SURR)	11.930	11.930	6884877	40		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015338.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:34
Operator : YP\AJ
Sample : Q1194-04
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-113-SB02

Integration File: autoint1.e
Quant Time: Jan 29 00:51:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7626767	57.778 ug/ml
Spiked Amount 50.000		Recovery = 115.56%	
6) S 2-Flurobiphenyl (SURR)	8.865	4437221	52.569 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 105.14%	
11) S ortho-Terphenyl (SURR)	11.930	6884877	39.995 ug/ml
Spiked Amount 50.000		Recovery = 79.99%	
Target Compounds			

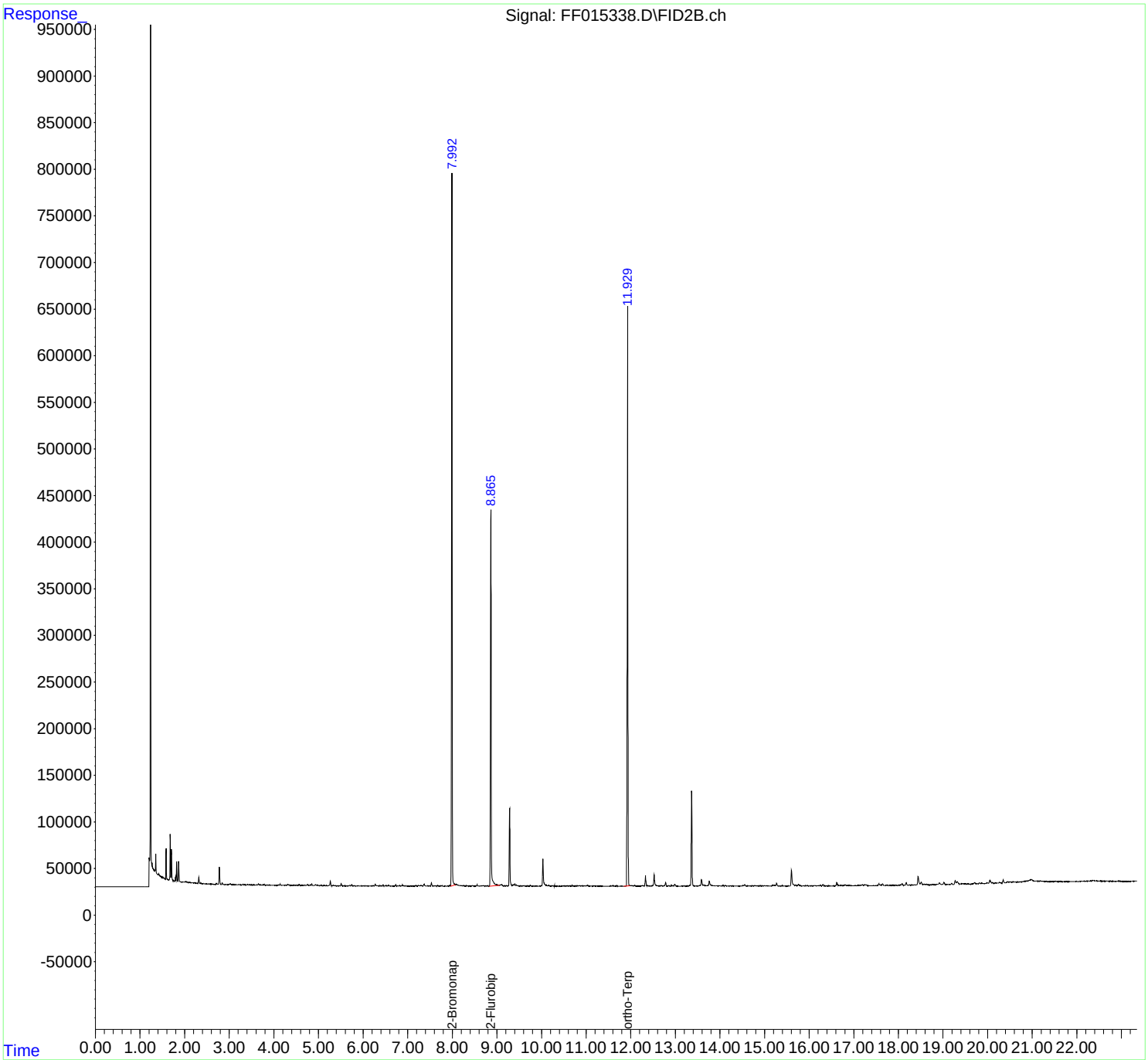
(f)=RT Delta > 1/2 Window (m)=manual int.

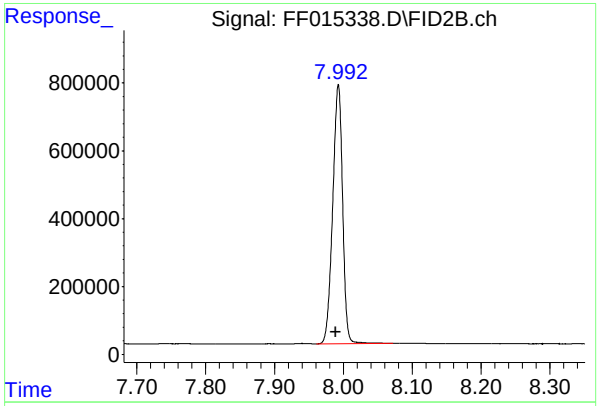
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015338.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:34
Operator : YP\AJ
Sample : Q1194-04
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
B-113-SB02

Integration File: autoint1.e
Quant Time: Jan 29 00:51:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

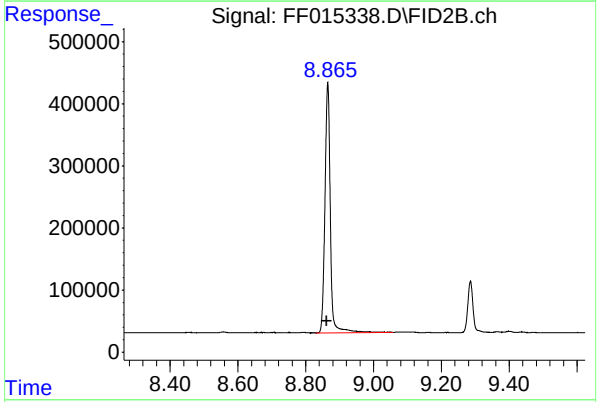




#4 2-Bromonaphthalene (SURR)

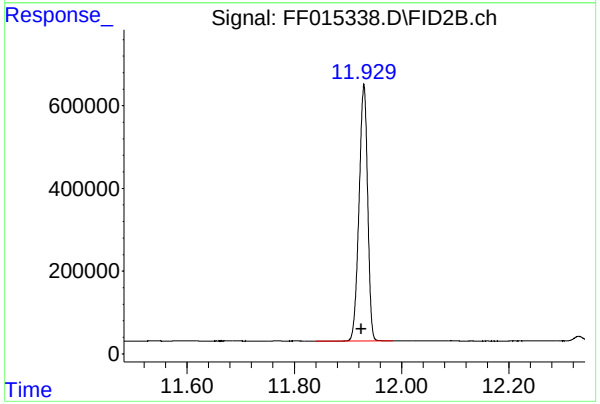
R.T.: 7.993 min
Delta R.T.: 0.004 min
Response: 7626767
Conc: 57.78 ug/ml

Instrument :
FID_F
ClientSampleId :
B-113-SB02



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.003 min
Response: 4437221
Conc: 52.57 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.930 min
Delta R.T.: 0.005 min
Response: 6884877
Conc: 40.00 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015338.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:34
Sample : Q1194-04
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.438	4.479	PV	338	3848	0.05%	0.015%
2	4.511	4.479	4.537	VV	503	7018	0.09%	0.027%
3	4.565	4.537	4.594	VV	1381	15920	0.21%	0.061%
4	4.603	4.594	4.624	VV	226	2506	0.03%	0.010%
5	4.646	4.624	4.675	VV	208	3820	0.05%	0.015%
6	4.694	4.675	4.713	VV	506	5730	0.07%	0.022%
7	4.755	4.713	4.780	VV	1476	19542	0.25%	0.075%
8	4.783	4.780	4.799	VV	221	1526	0.02%	0.006%
9	4.817	4.799	4.832	VV	1097	11277	0.15%	0.043%
10	4.850	4.832	4.873	VV	2109	22448	0.29%	0.086%
11	4.879	4.873	4.886	VV	168	1095	0.01%	0.004%
12	4.890	4.886	4.902	VV	174	1285	0.02%	0.005%
13	4.933	4.902	4.962	VV	1199	21644	0.28%	0.083%
14	4.980	4.962	5.006	VV	539	10686	0.14%	0.041%
15	5.022	5.006	5.032	VV	251	3465	0.05%	0.013%
16	5.060	5.032	5.100	VV	660	12023	0.16%	0.046%
17	5.120	5.100	5.137	VV	211	3323	0.04%	0.013%
18	5.142	5.137	5.157	VV	197	1435	0.02%	0.005%
19	5.180	5.157	5.196	VV	426	4957	0.06%	0.019%
20	5.200	5.196	5.217	VV	166	1731	0.02%	0.007%
21	5.242	5.217	5.248	VV	691	7260	0.09%	0.028%
22	5.267	5.248	5.307	VV	5277	61690	0.80%	0.235%
23	5.329	5.307	5.346	VV	1035	12287	0.16%	0.047%
24	5.353	5.346	5.372	VV	396	3748	0.05%	0.014%
25	5.386	5.372	5.411	VV	324	4100	0.05%	0.016%
26	5.446	5.432	5.460	PV	143	1309	0.02%	0.005%
27	5.477	5.460	5.490	VV	330	3374	0.04%	0.013%
28	5.509	5.490	5.547	VV	2606	30853	0.40%	0.118%
29	5.560	5.547	5.607	VV	319	6798	0.09%	0.026%
30	5.612	5.607	5.627	VV	167	1292	0.02%	0.005%
31	5.647	5.627	5.651	VV	149	1627	0.02%	0.006%
32	5.660	5.651	5.682	VV	274	3700	0.05%	0.014%
33	5.700	5.682	5.718	VV	867	10715	0.14%	0.041%
34	5.747	5.718	5.772	VV	1609	25652	0.33%	0.098%
35	5.781	5.772	5.794	VV	284	2448	0.03%	0.009%
36	5.805	5.794	5.825	VV	478	5360	0.07%	0.020%

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37	5.830	5.825	5.844	PV	144	1190	0.02%	0.005%
38	5.855	5.844	5.867	VV	199	2020	0.03%	0.008%
39	5.895	5.867	5.917	VV	384	6009	0.08%	0.023%
40	5.928	5.917	5.947	VV	152	1578	0.02%	0.006%
41	5.965	5.947	5.981	VV	282	3251	0.04%	0.012%
42	5.992	5.981	6.003	VV	404	3572	0.05%	0.014%
43	6.014	6.003	6.034	VV	365	4441	0.06%	0.017%
44	6.050	6.034	6.069	VV	478	4865	0.06%	0.019%
45	6.088	6.069	6.120	VV	343	4971	0.06%	0.019%
46	6.129	6.120	6.160	VV	168	2560	0.03%	0.010%
47	6.178	6.160	6.205	VV	340	5763	0.07%	0.022%
48	6.222	6.205	6.228	VV	510	5061	0.07%	0.019%
49	6.230	6.228	6.251	VV	496	4702	0.06%	0.018%
50	6.274	6.251	6.299	VV	2236	29615	0.39%	0.113%
51	6.313	6.299	6.318	VV	478	4861	0.06%	0.019%
52	6.332	6.318	6.360	VV	507	9911	0.13%	0.038%
53	6.378	6.360	6.412	VV	972	16208	0.21%	0.062%
54	6.448	6.412	6.469	VV	1487	22552	0.29%	0.086%
55	6.512	6.469	6.534	VV	588	14701	0.19%	0.056%
56	6.543	6.534	6.555	VV	404	4676	0.06%	0.018%
57	6.574	6.555	6.623	VV	1183	18314	0.24%	0.070%
58	6.648	6.623	6.673	VV	270	5274	0.07%	0.020%
59	6.689	6.673	6.707	VV	235	2584	0.03%	0.010%
60	6.732	6.707	6.758	VV	1721	19890	0.26%	0.076%
61	6.771	6.758	6.787	VV	394	4904	0.06%	0.019%
62	6.816	6.787	6.839	VV	902	12633	0.16%	0.048%
63	6.855	6.839	6.868	VV	561	6281	0.08%	0.024%
64	6.885	6.868	6.905	VV	1364	15884	0.21%	0.061%
65	6.920	6.905	6.940	VV	446	5191	0.07%	0.020%
66	6.961	6.940	6.987	PV	765	8552	0.11%	0.033%
67	7.006	6.987	7.010	VV	193	1937	0.03%	0.007%
68	7.015	7.010	7.039	VV	249	2096	0.03%	0.008%
69	7.061	7.039	7.084	VV	430	6555	0.09%	0.025%
70	7.096	7.084	7.100	VV	170	1053	0.01%	0.004%
71	7.116	7.100	7.148	VV	461	7488	0.10%	0.029%
72	7.186	7.148	7.220	VV	903	14561	0.19%	0.056%
73	7.241	7.220	7.270	VV	1093	18912	0.25%	0.072%
74	7.289	7.270	7.334	VV	1019	23947	0.31%	0.091%
75	7.369	7.334	7.424	VV	2268	42733	0.56%	0.163%
76	7.451	7.424	7.467	VV	458	7904	0.10%	0.030%
77	7.477	7.467	7.493	VV	434	5131	0.07%	0.020%
78	7.502	7.493	7.510	VV	286	2365	0.03%	0.009%
79	7.534	7.510	7.566	VV	3842	46498	0.60%	0.177%
80	7.571	7.566	7.575	VV	254	1157	0.02%	0.004%
81	7.595	7.575	7.605	VV	517	7138	0.09%	0.027%
82	7.615	7.605	7.627	VV	506	5598	0.07%	0.021%
83	7.642	7.627	7.656	VV	590	6843	0.09%	0.026%
84	7.675	7.656	7.700	VV	1008	13123	0.17%	0.050%
85	7.716	7.700	7.723	VV	271	2432	0.03%	0.009%
86	7.742	7.723	7.758	VV	598	8571	0.11%	0.033%
87	7.770	7.758	7.811	VV	699	8913	0.12%	0.034%
88	7.842	7.820	7.875	VV	292	4628	0.06%	0.018%
89	7.892	7.875	7.904	VV	459	4832	0.06%	0.018%

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90	7.912	7.904	7.923	VV	258	2320	0.03%	0.009%
91	7.942	7.923	7.960	VV	1299	14806	0.19%	0.056%
92	7.993	7.960	8.077	VV	764082	7690660	100.00%	29.331%
93	8.087	8.077	8.157	VV	2068	69237	0.90%	0.264%
94	8.161	8.157	8.197	VV	873	16011	0.21%	0.061%
95	8.207	8.197	8.226	VV	683	9916	0.13%	0.038%
96	8.250	8.226	8.271	VV	1026	18006	0.23%	0.069%
97	8.309	8.271	8.326	VV	484	12743	0.17%	0.049%
98	8.341	8.326	8.377	VV	539	9955	0.13%	0.038%
99	8.384	8.377	8.424	VV	284	5859	0.08%	0.022%
100	8.453	8.424	8.479	VV	843	15159	0.20%	0.058%
101	8.506	8.479	8.524	VV	297	5456	0.07%	0.021%
102	8.557	8.524	8.582	VV	1672	23638	0.31%	0.090%
103	8.585	8.582	8.609	VV	398	4720	0.06%	0.018%
104	8.625	8.609	8.634	VV	372	4298	0.06%	0.016%
105	8.652	8.634	8.663	VV	633	8881	0.12%	0.034%
106	8.674	8.663	8.686	VV	671	8001	0.10%	0.031%
107	8.698	8.686	8.735	VV	678	13400	0.17%	0.051%
108	8.751	8.735	8.773	VV	599	8612	0.11%	0.033%
109	8.794	8.773	8.821	VV	816	11093	0.14%	0.042%
110	8.865	8.829	9.010	VV	403170	4474051	58.18%	17.063%
111	9.018	9.010	9.037	VV	1558	21579	0.28%	0.082%
112	9.042	9.037	9.057	VV	1137	13538	0.18%	0.052%
113	9.074	9.057	9.085	VV	1481	21285	0.28%	0.081%
114	9.099	9.085	9.108	VV	1484	18405	0.24%	0.070%
115	9.113	9.108	9.143	VV	1434	20155	0.26%	0.077%
116	9.165	9.143	9.179	VV	750	12408	0.16%	0.047%
117	9.186	9.179	9.195	VV	495	4730	0.06%	0.018%
118	9.213	9.195	9.232	VV	703	12203	0.16%	0.047%
119	9.286	9.232	9.349	VV	83405	927423	12.06%	3.537%
120	9.364	9.349	9.379	VV	1941	25925	0.34%	0.099%
121	9.400	9.379	9.423	VV	2603	43727	0.57%	0.167%
122	9.437	9.423	9.460	VV	1642	24332	0.32%	0.093%
123	9.472	9.460	9.504	VV	810	12528	0.16%	0.048%
124	9.521	9.504	9.553	VV	568	10726	0.14%	0.041%
125	9.571	9.553	9.588	VV	498	8420	0.11%	0.032%
126	9.603	9.588	9.647	VV	670	13255	0.17%	0.051%
127	9.689	9.647	9.709	VV	512	13231	0.17%	0.050%
128	9.717	9.709	9.724	VV	243	1986	0.03%	0.008%
129	9.752	9.724	9.794	VV	1058	18563	0.24%	0.071%
130	9.827	9.802	9.870	VV	394	9871	0.13%	0.038%
131	9.890	9.870	9.917	VV	522	7442	0.10%	0.028%
132	9.920	9.917	9.934	VV	130	1238	0.02%	0.005%
133	9.946	9.934	9.965	VV	334	4697	0.06%	0.018%
134	9.968	9.965	9.973	VV	237	1014	0.01%	0.004%
135	10.001	9.973	10.010	VV	872	11356	0.15%	0.043%
136	10.033	10.010	10.141	VV	29408	422541	5.49%	1.612%
137	10.165	10.141	10.205	VV	1360	23309	0.30%	0.089%
138	10.236	10.205	10.287	VV	583	17204	0.22%	0.066%
139	10.292	10.287	10.298	VV	766	1747	0.02%	0.007%
140	10.315	10.298	10.324	VV	306	3908	0.05%	0.015%
141	10.337	10.324	10.350	VV	303	3548	0.05%	0.014%

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142	10.375	10.366	10.382	VV	187	1091	0.01%	0.004%
143	10.394	10.382	10.407	VV	277	2943	0.04%	0.011%
144	10.412	10.407	10.429	VV	201	1878	0.02%	0.007%
145	10.443	10.429	10.459	VV	253	3402	0.04%	0.013%
146	10.487	10.459	10.530	VV	578	14888	0.19%	0.057%
147	10.560	10.530	10.575	VV	549	10393	0.14%	0.040%
148	10.591	10.575	10.610	VV	603	9952	0.13%	0.038%
149	10.624	10.610	10.644	VV	692	9923	0.13%	0.038%
150	10.649	10.644	10.665	VV	465	4193	0.05%	0.016%
151	10.686	10.665	10.705	VV	1245	16114	0.21%	0.061%
152	10.722	10.705	10.740	VV	416	6071	0.08%	0.023%
153	10.768	10.740	10.777	VV	576	9720	0.13%	0.037%
154	10.789	10.777	10.817	VV	767	12247	0.16%	0.047%
155	10.855	10.817	10.873	VV	701	18304	0.24%	0.070%
156	10.904	10.873	10.942	VV	635	18685	0.24%	0.071%
157	10.960	10.942	10.974	VV	696	8789	0.11%	0.034%
158	10.993	10.974	11.000	VV	423	5915	0.08%	0.023%
159	11.033	11.000	11.057	VV	1354	25166	0.33%	0.096%
160	11.095	11.057	11.110	VV	437	9339	0.12%	0.036%
161	11.122	11.110	11.154	VV	436	8383	0.11%	0.032%
162	11.170	11.154	11.202	VV	428	9272	0.12%	0.035%
163	11.221	11.202	11.227	VV	302	3966	0.05%	0.015%
164	11.234	11.227	11.240	VV	347	2561	0.03%	0.010%
165	11.244	11.240	11.259	VV	356	3206	0.04%	0.012%
166	11.276	11.259	11.293	VV	375	5920	0.08%	0.023%
167	11.302	11.293	11.310	VV	311	2978	0.04%	0.011%
168	11.330	11.310	11.352	VV	628	10535	0.14%	0.040%
169	11.355	11.352	11.359	VV	297	1183	0.02%	0.005%
170	11.363	11.359	11.380	VV	278	1932	0.03%	0.007%
171	11.413	11.380	11.424	VV	170	2942	0.04%	0.011%
172	11.440	11.437	11.460	VV	155	1028	0.01%	0.004%
173	11.477	11.460	11.494	VV	129	1693	0.02%	0.006%
174	11.542	11.520	11.564	VV	537	7474	0.10%	0.029%
175	11.584	11.564	11.594	VV	525	5896	0.08%	0.022%
176	11.607	11.594	11.637	VV	813	11260	0.15%	0.043%
177	11.654	11.637	11.664	VV	258	2903	0.04%	0.011%
178	11.685	11.664	11.730	VV	958	16048	0.21%	0.061%
179	11.737	11.730	11.749	VV	144	1248	0.02%	0.005%
180	11.769	11.749	11.787	VV	479	5670	0.07%	0.022%
181	11.801	11.787	11.829	VV	397	5707	0.07%	0.022%
182	11.850	11.829	11.876	VV	157	2233	0.03%	0.009%
183	11.930	11.876	11.984	PV	621545	6912604	89.88%	26.364%
184	11.997	11.984	12.011	VV	835	11760	0.15%	0.045%
185	12.026	12.011	12.052	VV	938	16940	0.22%	0.065%
186	12.057	12.052	12.062	VV	481	2377	0.03%	0.009%
187	12.092	12.062	12.113	VV	1022	18874	0.25%	0.072%
188	12.132	12.113	12.147	VV	317	4585	0.06%	0.017%
189	12.161	12.147	12.192	VV	303	5716	0.07%	0.022%
190	12.206	12.192	12.215	VV	341	3681	0.05%	0.014%
191	12.272	12.215	12.302	VV	991	27874	0.36%	0.106%
192	12.330	12.302	12.356	VV	11733	145608	1.89%	0.555%
193	12.373	12.356	12.398	VV	1185	17341	0.23%	0.066%
194	12.411	12.398	12.460	VV	496	14536	0.19%	0.055%

195	12.523	12.460	12.622	VV	12580	223847	2.91%	0.854%
196	12.637	12.622	12.645	VV	651	8006	0.10%	0.031%
197	12.654	12.645	12.668	VV	664	7990	0.10%	0.030%
198	12.676	12.668	12.679	VV	563	3212	0.04%	0.012%
199	12.689	12.679	12.719	VV	645	12782	0.17%	0.049%
200	12.727	12.719	12.738	VV	496	5139	0.07%	0.020%
201	12.780	12.738	12.829	VV	4154	69028	0.90%	0.263%
202	12.855	12.829	12.885	VV	970	17263	0.22%	0.066%
203	12.918	12.885	12.944	VV	1053	16963	0.22%	0.065%
204	12.950	12.944	12.955	VV	362	2306	0.03%	0.009%
205	12.985	12.955	13.026	VV	2353	42789	0.56%	0.163%
206	13.031	13.026	13.034	VV	236	1008	0.01%	0.004%
207	13.044	13.034	13.054	VV	346	2920	0.04%	0.011%
208	13.058	13.054	13.087	VV	269	2769	0.04%	0.011%
209	13.139	13.109	13.155	PV	361	5155	0.07%	0.020%
210	13.177	13.155	13.185	VV	323	4346	0.06%	0.017%
211	13.197	13.185	13.234	VV	465	9047	0.12%	0.035%
212	13.240	13.234	13.256	VV	289	2848	0.04%	0.011%
213	13.284	13.256	13.300	VV	671	11732	0.15%	0.045%
214	13.322	13.300	13.334	VV	1149	16874	0.22%	0.064%
215	13.364	13.334	13.439	VV	102180	1236442	16.08%	4.716%
216	13.443	13.439	13.450	VV	347	2207	0.03%	0.008%
217	13.490	13.450	13.511	VV	518	13663	0.18%	0.052%
218	13.555	13.511	13.560	VV	985	19167	0.25%	0.073%
219	13.585	13.560	13.696	VV	7172	160187	2.08%	0.611%
220	13.709	13.696	13.713	VV	580	5688	0.07%	0.022%
221	13.759	13.713	13.851	VV	5661	138260	1.80%	0.527%
222	13.869	13.851	13.881	VV	543	8799	0.11%	0.034%
223	13.885	13.881	13.891	VV	497	2809	0.04%	0.011%
224	13.909	13.891	13.914	VV	569	6756	0.09%	0.026%
225	13.932	13.914	13.962	VV	613	14515	0.19%	0.055%
226	13.982	13.962	14.019	VV	610	14688	0.19%	0.056%
227	14.067	14.019	14.097	VV	1298	27580	0.36%	0.105%
228	14.118	14.097	14.159	VV	990	20383	0.27%	0.078%
229	14.177	14.159	14.202	VV	364	7207	0.09%	0.027%
230	14.237	14.202	14.267	VV	571	13331	0.17%	0.051%
231	14.279	14.267	14.299	VV	362	4579	0.06%	0.017%
232	14.345	14.299	14.362	VV	275	7935	0.10%	0.030%
233	14.368	14.362	14.397	VV	249	4110	0.05%	0.016%
234	14.404	14.397	14.431	VV	218	3496	0.05%	0.013%
235	14.454	14.431	14.481	VV	331	6607	0.09%	0.025%
236	14.515	14.481	14.529	VV	663	11985	0.16%	0.046%
237	14.555	14.529	14.593	VV	1815	33154	0.43%	0.126%
238	14.599	14.593	14.632	VV	381	7861	0.10%	0.030%
239	14.640	14.632	14.659	VV	282	4054	0.05%	0.015%
240	14.679	14.659	14.702	VV	438	8797	0.11%	0.034%
241	14.719	14.702	14.753	VV	400	10545	0.14%	0.040%
242	14.783	14.753	14.807	VV	537	13799	0.18%	0.053%
243	14.815	14.807	14.829	VV	493	5284	0.07%	0.020%
244	14.838	14.829	14.872	VV	480	9371	0.12%	0.036%
245	14.893	14.872	14.908	VV	359	6274	0.08%	0.024%
246	14.927	14.908	14.961	VV	417	9009	0.12%	0.034%

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247	15.000	14.961	15.020	VV	524	12641	0.16%	0.048%
248	15.030	15.020	15.047	VV	373	5369	0.07%	0.020%
249	15.065	15.047	15.114	VV	519	11506	0.15%	0.044%
250	15.187	15.114	15.206	VV	1034	25907	0.34%	0.099%
251	15.222	15.206	15.243	VV	1155	19023	0.25%	0.073%
252	15.269	15.243	15.316	VV	3233	48650	0.63%	0.186%
253	15.329	15.316	15.368	VV	297	5288	0.07%	0.020%
254	15.392	15.368	15.440	VV	499	11849	0.15%	0.045%
255	15.443	15.440	15.502	VV	201	3221	0.04%	0.012%
256	15.527	15.502	15.565	VV	269	5207	0.07%	0.020%
257	15.601	15.565	15.680	VV	17054	292703	3.81%	1.116%
258	15.699	15.680	15.730	VV	978	22564	0.29%	0.086%
259	15.762	15.730	15.788	VV	1904	35516	0.46%	0.135%
260	15.800	15.788	15.836	VV	541	8881	0.12%	0.034%
261	15.872	15.836	15.893	VV	372	7980	0.10%	0.030%
262	15.904	15.893	15.932	VV	217	3819	0.05%	0.015%
263	15.958	15.932	15.999	VV	552	10942	0.14%	0.042%
264	16.066	15.999	16.082	VV	318	9069	0.12%	0.035%
265	16.125	16.082	16.157	VV	615	16760	0.22%	0.064%
266	16.167	16.157	16.190	VV	346	5631	0.07%	0.021%
267	16.207	16.190	16.225	VV	632	8706	0.11%	0.033%
268	16.246	16.225	16.276	VV	913	14563	0.19%	0.056%
269	16.308	16.276	16.361	VV	1461	26037	0.34%	0.099%
270	16.387	16.361	16.406	VV	252	4672	0.06%	0.018%
271	16.429	16.406	16.454	VV	214	3669	0.05%	0.014%
272	16.554	16.513	16.564	VV	162	2484	0.03%	0.009%
273	16.617	16.564	16.689	VV	3583	77127	1.00%	0.294%
274	16.730	16.689	16.760	VV	789	25235	0.33%	0.096%
275	16.810	16.760	16.850	VV	1063	28256	0.37%	0.108%
276	16.876	16.850	16.997	VV	657	32017	0.42%	0.122%
277	17.012	16.997	17.049	VV	283	5882	0.08%	0.022%
278	17.096	17.049	17.119	VV	611	16923	0.22%	0.065%
279	17.162	17.119	17.173	VV	715	17953	0.23%	0.068%
280	17.194	17.173	17.220	VV	1379	25117	0.33%	0.096%
281	17.245	17.220	17.260	VV	1342	22593	0.29%	0.086%
282	17.275	17.260	17.372	VV	1162	24715	0.32%	0.094%
283	17.382	17.372	17.405	VV	149	1546	0.02%	0.006%
284	17.432	17.405	17.459	VV	154	2264	0.03%	0.009%
285	17.482	17.459	17.499	PV	135	1992	0.03%	0.008%
286	17.562	17.499	17.617	VV	1894	52502	0.68%	0.200%
287	17.645	17.617	17.702	VV	2033	38739	0.50%	0.148%
288	17.737	17.702	17.791	VV	653	16970	0.22%	0.065%
289	17.826	17.791	17.845	VV	224	5090	0.07%	0.019%
290	17.873	17.845	17.908	VV	427	8302	0.11%	0.032%
291	17.940	17.908	17.985	VV	259	5685	0.07%	0.022%
292	18.015	17.985	18.034	PV	415	7548	0.10%	0.029%
293	18.084	18.034	18.125	VV	1944	37471	0.49%	0.143%
294	18.175	18.125	18.222	VV	3027	46274	0.60%	0.176%
295	18.252	18.222	18.279	VV	261	4710	0.06%	0.018%
296	18.311	18.279	18.333	VV	362	7236	0.09%	0.028%
297	18.362	18.333	18.389	VV	417	8538	0.11%	0.033%
298	18.441	18.389	18.489	VV	9310	179281	2.33%	0.684%
299	18.511	18.489	18.546	VV	3186	64330	0.84%	0.245%

					rteres			
300	18.566	18.546	18.582	VV	841	15831	0.21%	0.060%
301	18.604	18.582	18.620	VV	803	16106	0.21%	0.061%
302	18.633	18.620	18.693	VV	825	13611	0.18%	0.052%
303	18.721	18.693	18.732	PV	114	1273	0.02%	0.005%
304	18.764	18.732	18.790	PV	213	3994	0.05%	0.015%
			Sum of corrected areas:			26220323		

Aromatic EPH 011425.M Wed Jan 29 02:06:45 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	B-113-SB02	SDG No.:	Q1194
Lab Sample ID:	Q1194-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	64.7
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015195.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.59	U	0.59	1.54	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.16		0.37	1.03	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		3.92		0.46	1.54	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.24	U	1.24	2.06	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.78	U	2.78	3.09	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-04	Acq On:	28 Jan 2025 21:34
Client Sample ID:	B-113-SB02	Operator:	YP\AJ
Data file:	FG015195.D	Misc:	
Instrument:	FID_G	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	541334	4.074	300	ug/ml
Aliphatic C12-C16	6.821	10.273	1587621	11.243	200	ug/ml
Aliphatic C16-C21	10.274	13.656	5497421	38.04	300	ug/ml
Aliphatic C21-C28	13.657	17.330	725670	5.308	400	ug/ml
Aliphatic C28-C40	17.331	22.272	1458076	13.809	600	ug/ml
Aliphatic EPH	3.178	22.272	9810122	72.473		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.385	13.385	4656324	38.24		ug/ml
Aliphatic C9-C28	3.178	17.330	8352046	58.665	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015195.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:34
Operator : YP\AJ
Sample : Q1194-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-113-SB02

Integration File: autoint1.e
Quant Time: Jan 29 02:38:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.385	4656324	38.241 ug/ml
Spiked Amount 50.000		Recovery = 76.48%	
Target Compounds			

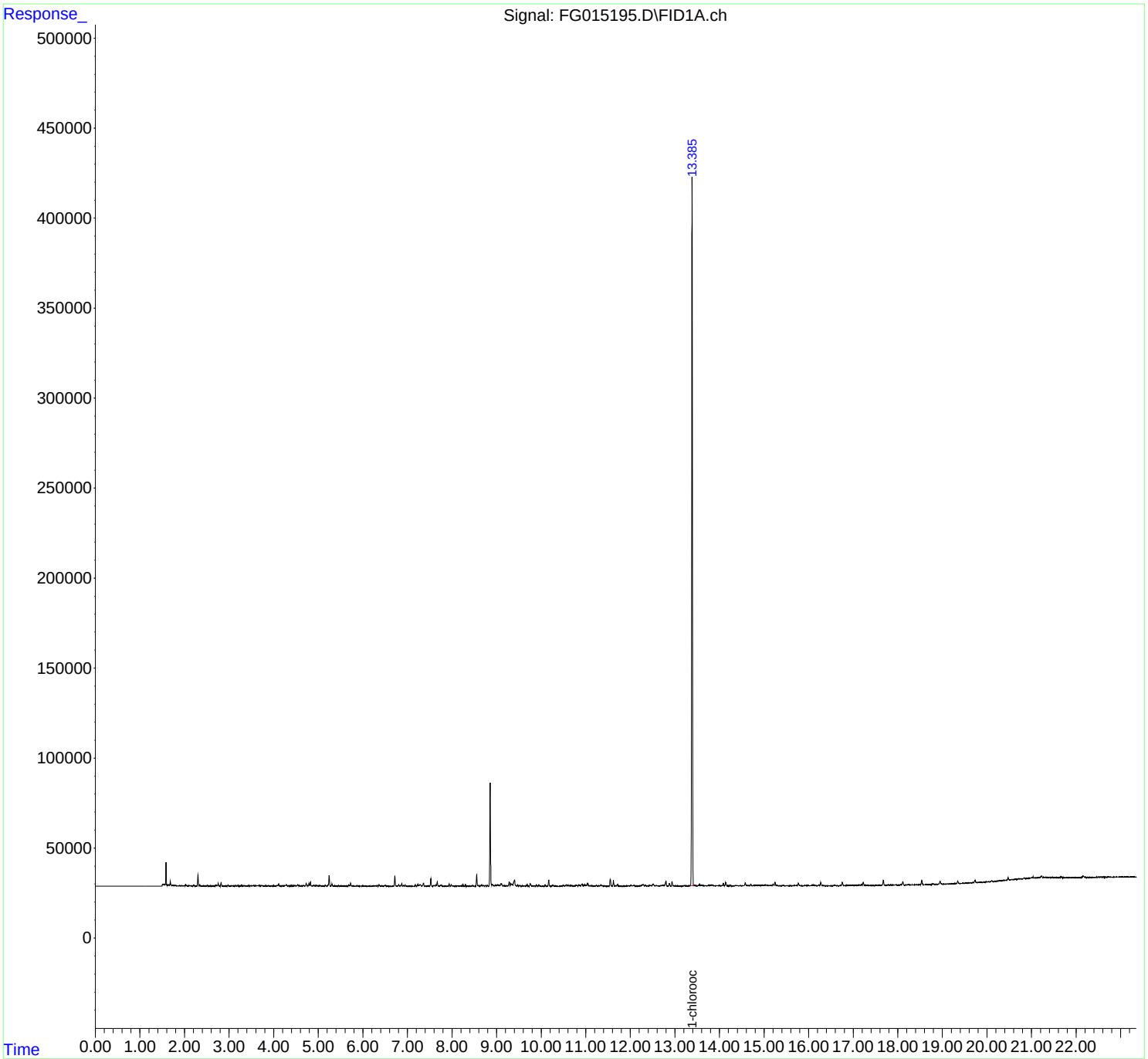
(f)=RT Delta > 1/2 Window (m)=manual int.

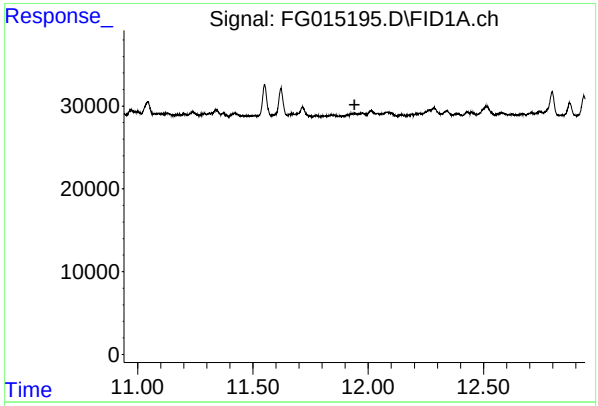
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015195.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:34
Operator : YP\AJ
Sample : Q1194-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-113-SB02

Integration File: autoint1.e
Quant Time: Jan 29 02:38:44 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

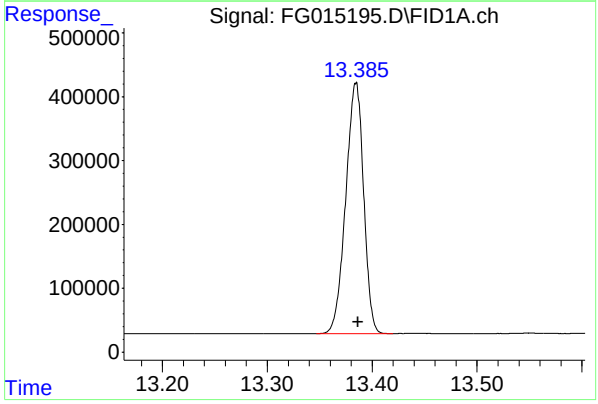




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.940 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
B-113-SB02



#12 1-chlorooctadecane (SURR)

R.T.: 13.385 min
Delta R.T.: -0.002 min
Response: 4656324
Conc: 38.24 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015195.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:34
Sample : Q1194-04
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.283	3.221	3.318	BV	420	6471	0.14%	0.066%
2	3.348	3.318	3.463	PV	141	6550	0.14%	0.067%
3	3.473	3.463	3.482	VV	109	1082	0.02%	0.011%
4	3.505	3.482	3.514	VV	146	2178	0.05%	0.022%
5	3.525	3.514	3.598	VV	207	6755	0.14%	0.069%
6	3.617	3.598	3.652	VV	224	5746	0.12%	0.059%
7	3.673	3.652	3.708	VV	412	6260	0.13%	0.064%
8	3.731	3.708	3.777	VV	264	5620	0.12%	0.057%
9	3.789	3.777	3.805	VV	85	1120	0.02%	0.011%
10	3.828	3.805	3.845	VV	132	1597	0.03%	0.016%
11	3.868	3.845	3.908	VV	126	2852	0.06%	0.029%
12	3.914	3.908	3.946	VV	123	1675	0.04%	0.017%
13	3.958	3.946	3.985	VV	132	1741	0.04%	0.018%
14	3.988	3.985	3.998	VV	182	753	0.02%	0.008%
15	4.005	3.998	4.026	VV	87	1148	0.02%	0.012%
16	4.078	4.026	4.094	PV	505	6933	0.15%	0.071%
17	4.113	4.094	4.144	VV	1257	14046	0.30%	0.143%
18	4.155	4.144	4.161	VV	118	782	0.02%	0.008%
19	4.191	4.161	4.235	VV	201	5654	0.12%	0.058%
20	4.284	4.235	4.310	VV	974	16546	0.35%	0.169%
21	4.330	4.310	4.395	VV	196	5956	0.13%	0.061%
22	4.445	4.395	4.514	VV	187	10448	0.22%	0.106%
23	4.541	4.514	4.608	VV	994	16744	0.36%	0.171%
24	4.621	4.608	4.645	VV	205	2831	0.06%	0.029%
25	4.669	4.645	4.695	VV	480	7139	0.15%	0.073%
26	4.730	4.695	4.751	VV	1671	20324	0.43%	0.207%
27	4.763	4.751	4.773	VV	247	2765	0.06%	0.028%
28	4.793	4.773	4.809	VV	1259	13788	0.30%	0.140%
29	4.826	4.809	4.851	VV	2333	25001	0.53%	0.255%
30	4.929	4.851	4.938	VV	231	9529	0.20%	0.097%
31	4.957	4.938	4.991	VV	430	7741	0.17%	0.079%
32	5.001	4.991	5.021	VV	216	3169	0.07%	0.032%
33	5.037	5.021	5.078	VV	188	4898	0.10%	0.050%
34	5.086	5.078	5.135	VV	129	3278	0.07%	0.033%
35	5.158	5.135	5.188	VV	366	6560	0.14%	0.067%
36	5.245	5.188	5.278	VV	5985	78727	1.68%	0.802%

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37	5.308	5.278	5.344	VV	1099	14290	0.31%	0.146%
38	5.364	5.344	5.401	VV	175	3546	0.08%	0.036%
39	5.425	5.401	5.438	VV	145	2150	0.05%	0.022%
40	5.454	5.438	5.476	VV	294	3985	0.09%	0.041%
41	5.496	5.476	5.524	VV	255	3715	0.08%	0.038%
42	5.554	5.524	5.568	VV	165	3012	0.06%	0.031%
43	5.573	5.568	5.630	VV	158	3646	0.08%	0.037%
44	5.647	5.630	5.663	VV	251	3001	0.06%	0.031%
45	5.683	5.663	5.708	VV	584	8714	0.19%	0.089%
46	5.728	5.708	5.752	VV	1730	19713	0.42%	0.201%
47	5.788	5.752	5.814	VV	447	6297	0.13%	0.064%
48	5.825	5.814	5.831	VV	100	666	0.01%	0.007%
49	5.862	5.831	5.905	VV	247	6788	0.15%	0.069%
50	5.913	5.905	5.934	VV	90	1013	0.02%	0.010%
51	5.952	5.934	5.965	VV	75	1298	0.03%	0.013%
52	5.969	5.965	5.978	VV	133	785	0.02%	0.008%
53	5.996	5.978	6.035	VV	276	4431	0.09%	0.045%
54	6.055	6.035	6.099	VV	158	2853	0.06%	0.029%
55	6.165	6.099	6.191	VV	125	3711	0.08%	0.038%
56	6.257	6.191	6.300	VV	346	11114	0.24%	0.113%
57	6.321	6.300	6.341	VV	392	6372	0.14%	0.065%
58	6.364	6.341	6.410	VV	1003	13432	0.29%	0.137%
59	6.431	6.410	6.458	VV	278	4987	0.11%	0.051%
60	6.503	6.458	6.572	VV	503	15092	0.32%	0.154%
61	6.607	6.572	6.667	VV	120	4582	0.10%	0.047%
62	6.719	6.667	6.750	VV	5854	62818	1.34%	0.640%
63	6.764	6.750	6.779	VV	263	3191	0.07%	0.032%
64	6.806	6.779	6.826	VV	945	11725	0.25%	0.119%
65	6.843	6.826	6.856	VV	509	5460	0.12%	0.056%
66	6.874	6.856	6.894	VV	1570	16791	0.36%	0.171%
67	6.908	6.894	6.929	VV	501	5476	0.12%	0.056%
68	6.949	6.929	6.971	VV	833	8618	0.18%	0.088%
69	6.984	6.971	7.030	VV	57	1290	0.03%	0.013%
70	7.041	7.030	7.058	VV	110	1170	0.03%	0.012%
71	7.063	7.058	7.078	VV	105	750	0.02%	0.008%
72	7.098	7.078	7.118	VV	210	2586	0.06%	0.026%
73	7.126	7.118	7.147	VV	100	1046	0.02%	0.011%
74	7.177	7.147	7.211	PV	1031	12005	0.26%	0.122%
75	7.231	7.211	7.265	VV	1104	19267	0.41%	0.196%
76	7.283	7.265	7.328	VV	1042	21069	0.45%	0.215%
77	7.361	7.328	7.387	VV	1778	26243	0.56%	0.267%
78	7.401	7.387	7.421	VV	216	2710	0.06%	0.028%
79	7.468	7.421	7.498	VV	324	8741	0.19%	0.089%
80	7.527	7.498	7.559	VV	4366	48782	1.04%	0.497%
81	7.588	7.559	7.620	VV	493	10926	0.23%	0.111%
82	7.636	7.620	7.649	VV	678	7653	0.16%	0.078%
83	7.670	7.649	7.693	VV	2556	30341	0.65%	0.309%
84	7.708	7.693	7.721	VV	288	4145	0.09%	0.042%
85	7.736	7.721	7.749	VV	584	7443	0.16%	0.076%
86	7.763	7.749	7.811	VV	801	10805	0.23%	0.110%
87	7.832	7.811	7.867	VV	230	4468	0.10%	0.046%
88	7.882	7.867	7.912	VV	151	2755	0.06%	0.028%
89	7.937	7.912	7.965	VV	1504	17052	0.36%	0.174%

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90	7.985	7.965	8.008	VV	1120	14145	0.30%	0.144%
91	8.021	8.008	8.063	VV	342	6897	0.15%	0.070%
92	8.103	8.063	8.117	VV	305	6405	0.14%	0.065%
93	8.135	8.117	8.151	VV	321	5062	0.11%	0.052%
94	8.159	8.151	8.178	VV	283	2944	0.06%	0.030%
95	8.201	8.178	8.225	VV	455	5428	0.12%	0.055%
96	8.247	8.225	8.273	VV	1445	16681	0.36%	0.170%
97	8.304	8.273	8.328	VV	1131	13594	0.29%	0.138%
98	8.344	8.328	8.360	VV	289	4212	0.09%	0.043%
99	8.374	8.360	8.389	VV	292	3290	0.07%	0.034%
100	8.406	8.389	8.431	VV	216	3270	0.07%	0.033%
101	8.461	8.431	8.482	VV	656	7974	0.17%	0.081%
102	8.500	8.482	8.527	VV	177	3635	0.08%	0.037%
103	8.555	8.527	8.630	VV	6605	79794	1.71%	0.813%
104	8.655	8.630	8.688	VV	786	17242	0.37%	0.176%
105	8.707	8.688	8.735	VV	661	10221	0.22%	0.104%
106	8.751	8.735	8.773	VV	630	7948	0.17%	0.081%
107	8.793	8.773	8.825	VV	822	9537	0.20%	0.097%
108	8.857	8.825	8.931	PV	57276	617318	13.21%	6.287%
109	8.939	8.931	8.955	VV	397	5790	0.12%	0.059%
110	8.975	8.955	8.994	VV	582	12003	0.26%	0.122%
111	9.021	8.994	9.037	VV	931	17573	0.38%	0.179%
112	9.051	9.037	9.065	VV	906	11227	0.24%	0.114%
113	9.102	9.065	9.142	VV	1620	40086	0.86%	0.408%
114	9.165	9.142	9.188	VV	624	10243	0.22%	0.104%
115	9.217	9.188	9.241	VV	628	9730	0.21%	0.099%
116	9.285	9.241	9.304	VV	2684	38170	0.82%	0.389%
117	9.323	9.304	9.367	VV	1654	39851	0.85%	0.406%
118	9.402	9.367	9.454	VV	3518	80376	1.72%	0.819%
119	9.475	9.454	9.500	VV	978	13301	0.28%	0.135%
120	9.524	9.500	9.556	VV	628	9852	0.21%	0.100%
121	9.576	9.556	9.598	VV	266	5407	0.12%	0.055%
122	9.608	9.598	9.654	VV	401	9081	0.19%	0.092%
123	9.691	9.654	9.732	VV	810	19700	0.42%	0.201%
124	9.756	9.732	9.795	VV	1612	26179	0.56%	0.267%
125	9.810	9.795	9.831	VV	409	6323	0.14%	0.064%
126	9.851	9.831	9.875	VV	443	7023	0.15%	0.072%
127	9.895	9.875	9.925	VV	947	13449	0.29%	0.137%
128	9.949	9.925	9.995	VV	1086	15919	0.34%	0.162%
129	10.005	9.995	10.025	VV	156	2057	0.04%	0.021%
130	10.040	10.025	10.063	VV	255	2815	0.06%	0.029%
131	10.090	10.063	10.122	VV	960	12926	0.28%	0.132%
132	10.131	10.122	10.139	VV	179	1473	0.03%	0.015%
133	10.171	10.139	10.218	VV	3636	44520	0.95%	0.453%
134	10.244	10.218	10.308	VV	576	19358	0.41%	0.197%
135	10.321	10.308	10.333	VV	269	3456	0.07%	0.035%
136	10.343	10.333	10.366	VV	282	3194	0.07%	0.033%
137	10.375	10.366	10.401	VV	95	892	0.02%	0.009%
138	10.453	10.401	10.468	PV	404	7182	0.15%	0.073%
139	10.494	10.468	10.511	VV	555	10264	0.22%	0.105%
140	10.520	10.511	10.532	VV	440	4122	0.09%	0.042%
141	10.566	10.532	10.584	VV	980	18682	0.40%	0.190%

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142	10.605	10.584	10.627	VV	702	12392	0.27%	0.126%
143	10.653	10.627	10.673	VV	583	11742	0.25%	0.120%
144	10.693	10.673	10.751	VV	370	11895	0.25%	0.121%
145	10.777	10.751	10.791	VV	647	10278	0.22%	0.105%
146	10.802	10.791	10.831	VV	509	9830	0.21%	0.100%
147	10.857	10.831	10.878	VV	805	17033	0.36%	0.173%
148	10.913	10.878	10.950	VV	1341	31324	0.67%	0.319%
149	10.971	10.950	11.018	VV	839	23602	0.51%	0.240%
150	11.044	11.018	11.081	VV	1813	34160	0.73%	0.348%
151	11.091	11.081	11.098	VV	396	3750	0.08%	0.038%
152	11.106	11.098	11.112	VV	406	2943	0.06%	0.030%
153	11.129	11.112	11.155	VV	457	8970	0.19%	0.091%
154	11.171	11.155	11.188	VV	268	4566	0.10%	0.046%
155	11.200	11.188	11.218	VV	368	4887	0.10%	0.050%
156	11.239	11.218	11.268	VV	578	11142	0.24%	0.113%
157	11.288	11.268	11.299	VV	375	5738	0.12%	0.058%
158	11.341	11.299	11.361	VV	827	18893	0.40%	0.192%
159	11.371	11.361	11.398	VV	427	5262	0.11%	0.054%
160	11.422	11.398	11.464	VV	419	8776	0.19%	0.089%
161	11.475	11.464	11.488	VV	142	1440	0.03%	0.015%
162	11.509	11.488	11.518	VV	157	1928	0.04%	0.020%
163	11.551	11.518	11.581	VV	3869	51446	1.10%	0.524%
164	11.621	11.581	11.651	VV	3395	47919	1.03%	0.488%
165	11.669	11.651	11.682	VV	395	5374	0.11%	0.055%
166	11.715	11.682	11.761	VV	1167	20396	0.44%	0.208%
167	11.775	11.761	11.795	VV	171	1597	0.03%	0.016%
168	11.840	11.795	11.885	VV	175	4951	0.11%	0.050%
169	11.945	11.885	11.955	PV	419	9817	0.21%	0.100%
170	11.975	11.955	11.993	VV	431	8362	0.18%	0.085%
171	12.013	11.993	12.054	VV	752	16297	0.35%	0.166%
172	12.085	12.054	12.125	VV	549	15237	0.33%	0.155%
173	12.143	12.125	12.163	VV	241	3356	0.07%	0.034%
174	12.221	12.163	12.235	VV	426	10931	0.23%	0.111%
175	12.285	12.235	12.317	VV	1029	31841	0.68%	0.324%
176	12.341	12.317	12.363	VV	688	12499	0.27%	0.127%
177	12.387	12.363	12.411	VV	346	7115	0.15%	0.072%
178	12.430	12.411	12.470	VV	529	13992	0.30%	0.143%
179	12.512	12.470	12.550	VV	1272	31557	0.68%	0.321%
180	12.576	12.550	12.618	VV	465	12657	0.27%	0.129%
181	12.624	12.618	12.650	VV	264	3934	0.08%	0.040%
182	12.670	12.650	12.684	VV	324	5264	0.11%	0.054%
183	12.707	12.684	12.723	VV	454	8482	0.18%	0.086%
184	12.745	12.723	12.758	VV	621	10359	0.22%	0.106%
185	12.797	12.758	12.843	VV	2967	49586	1.06%	0.505%
186	12.874	12.843	12.905	VV	1590	22865	0.49%	0.233%
187	12.935	12.905	12.985	VV	2471	35665	0.76%	0.363%
188	13.007	12.985	13.039	VV	280	6429	0.14%	0.065%
189	13.053	13.039	13.164	VV	311	8109	0.17%	0.083%
190	13.220	13.164	13.248	PV	314	10258	0.22%	0.104%
191	13.262	13.248	13.280	VV	274	3511	0.08%	0.036%
192	13.311	13.280	13.325	VV	313	6192	0.13%	0.063%
193	13.384	13.325	13.420	VV	394888	4673300	100.00%	47.596%
194	13.441	13.420	13.505	VV	576	18088	0.39%	0.184%

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195	13.550	13.505	13.583	VV	948	24997	0.53%	0.255%
196	13.604	13.583	13.645	VV	715	16695	0.36%	0.170%
197	13.670	13.645	13.698	VV	377	9610	0.21%	0.098%
198	13.761	13.698	13.795	VV	587	22717	0.49%	0.231%
199	13.829	13.795	13.868	VV	737	23226	0.50%	0.237%
200	13.894	13.868	13.911	VV	336	6842	0.15%	0.070%
201	13.932	13.911	13.965	VV	357	9209	0.20%	0.094%
202	13.990	13.965	14.031	VV	444	13780	0.29%	0.140%
203	14.087	14.031	14.111	VV	1642	30384	0.65%	0.309%
204	14.139	14.111	14.195	VV	2121	34445	0.74%	0.351%
205	14.197	14.195	14.226	VV	245	3346	0.07%	0.034%
206	14.279	14.226	14.311	VV	180	7753	0.17%	0.079%
207	14.357	14.311	14.421	VV	336	15600	0.33%	0.159%
208	14.436	14.421	14.451	VV	318	4769	0.10%	0.049%
209	14.471	14.451	14.514	VV	321	10244	0.22%	0.104%
210	14.527	14.514	14.538	VV	303	3782	0.08%	0.039%
211	14.576	14.538	14.618	VV	1858	35216	0.75%	0.359%
212	14.629	14.618	14.651	VV	413	7321	0.16%	0.075%
213	14.671	14.651	14.680	VV	398	6430	0.14%	0.065%
214	14.703	14.680	14.744	VV	1026	20457	0.44%	0.208%
215	14.768	14.744	14.781	VV	375	7508	0.16%	0.076%
216	14.801	14.781	14.821	VV	457	9992	0.21%	0.102%
217	14.853	14.821	14.891	VV	521	19615	0.42%	0.200%
218	14.899	14.891	14.928	VV	469	9053	0.19%	0.092%
219	14.959	14.928	14.979	VV	459	11598	0.25%	0.118%
220	15.022	14.979	15.040	VV	630	17792	0.38%	0.181%
221	15.054	15.040	15.088	VV	529	11603	0.25%	0.118%
222	15.099	15.088	15.117	VV	305	4859	0.10%	0.049%
223	15.202	15.117	15.222	VV	1161	28355	0.61%	0.289%
224	15.245	15.222	15.274	VV	2055	32033	0.69%	0.326%
225	15.287	15.274	15.341	VV	392	10221	0.22%	0.104%
226	15.366	15.341	15.393	VV	186	3505	0.08%	0.036%
227	15.418	15.393	15.508	VV	499	15215	0.33%	0.155%
228	15.515	15.508	15.598	VV	195	7080	0.15%	0.072%
229	15.674	15.598	15.717	VV	328	12545	0.27%	0.128%
230	15.769	15.717	15.803	VV	1599	28754	0.62%	0.293%
231	15.813	15.803	15.841	VV	209	3894	0.08%	0.040%
232	15.902	15.841	15.928	VV	253	8733	0.19%	0.089%
233	15.964	15.928	16.022	VV	281	12384	0.26%	0.126%
234	16.086	16.022	16.102	VV	434	14149	0.30%	0.144%
235	16.127	16.102	16.202	VV	387	14613	0.31%	0.149%
236	16.231	16.202	16.248	VV	660	10223	0.22%	0.104%
237	16.270	16.248	16.318	VV	2047	31621	0.68%	0.322%
238	16.322	16.318	16.365	VV	242	3567	0.08%	0.036%
239	16.373	16.365	16.390	VV	79	808	0.02%	0.008%
240	16.417	16.390	16.431	PV	115	1796	0.04%	0.018%
241	16.449	16.431	16.465	VV	148	2160	0.05%	0.022%
242	16.473	16.465	16.533	VV	138	2066	0.04%	0.021%
243	16.585	16.533	16.678	VV	342	9747	0.21%	0.099%
244	16.718	16.678	16.731	VV	163	3543	0.08%	0.036%
245	16.755	16.731	16.784	VV	1915	26586	0.57%	0.271%
246	16.802	16.784	16.822	VV	219	3877	0.08%	0.039%

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247	16.839	16.822	16.861	VV	156	3151	0.07%	0.032%
248	16.877	16.861	16.888	VV	146	2082	0.04%	0.021%
249	16.915	16.888	16.965	VV	258	9361	0.20%	0.095%
250	16.986	16.965	17.018	VV	222	5526	0.12%	0.056%
251	17.061	17.018	17.083	VV	290	7708	0.16%	0.079%
252	17.117	17.083	17.131	VV	330	7185	0.15%	0.073%
253	17.144	17.131	17.163	VV	312	4860	0.10%	0.049%
254	17.190	17.163	17.200	VV	599	8266	0.18%	0.084%
255	17.224	17.200	17.259	VV	1939	29241	0.63%	0.298%
256	17.270	17.259	17.295	VV	290	3664	0.08%	0.037%
257	17.338	17.295	17.418	VV	124	6289	0.13%	0.064%
258	17.431	17.418	17.460	VV	107	1382	0.03%	0.014%
259	17.515	17.460	17.540	PV	145	3502	0.07%	0.036%
260	17.557	17.540	17.573	VV	124	1829	0.04%	0.019%
261	17.589	17.573	17.620	VV	189	2539	0.05%	0.026%
262	17.675	17.620	17.738	VV	2814	42468	0.91%	0.433%
263	17.770	17.738	17.805	VV	177	4735	0.10%	0.048%
264	17.820	17.805	17.842	VV	152	2740	0.06%	0.028%
265	17.849	17.842	17.855	VV	134	781	0.02%	0.008%
266	17.957	17.855	18.008	VV	207	13138	0.28%	0.134%
267	18.029	18.008	18.038	VV	130	2013	0.04%	0.021%
268	18.112	18.038	18.149	VV	1959	37159	0.80%	0.378%
269	18.156	18.149	18.208	VV	147	3565	0.08%	0.036%
270	18.284	18.208	18.302	VV	203	8604	0.18%	0.088%
271	18.310	18.302	18.338	VV	85	1363	0.03%	0.014%
272	18.350	18.338	18.365	VV	69	751	0.02%	0.008%
273	18.432	18.365	18.465	PV	233	7385	0.16%	0.075%
274	18.538	18.465	18.582	VV	2581	41224	0.88%	0.420%
275	18.623	18.582	18.630	PV	102	1463	0.03%	0.015%
276	18.639	18.630	18.664	VV	129	1662	0.04%	0.017%
277	18.677	18.664	18.691	VV	90	1084	0.02%	0.011%
278	18.803	18.691	18.812	VV	240	8223	0.18%	0.084%
279	18.818	18.812	18.828	VV	216	1550	0.03%	0.016%
280	18.844	18.828	18.871	VV	174	2795	0.06%	0.028%
281	18.948	18.871	19.017	VV	1777	34838	0.75%	0.355%
282	19.029	19.017	19.047	VV	84	1281	0.03%	0.013%
283	19.106	19.047	19.135	PV	148	4973	0.11%	0.051%
284	19.151	19.135	19.165	VV	89	1175	0.03%	0.012%
285	19.183	19.165	19.195	VV	76	1070	0.02%	0.011%
286	19.214	19.195	19.228	VV	76	1100	0.02%	0.011%
287	19.261	19.228	19.278	PV	133	2100	0.04%	0.021%
288	19.302	19.278	19.321	VV	252	3841	0.08%	0.039%
289	19.347	19.321	19.405	VV	1328	21067	0.45%	0.215%
290	19.479	19.405	19.487	PV	108	2959	0.06%	0.030%
291	19.540	19.487	19.564	VV	189	5054	0.11%	0.051%
292	19.592	19.564	19.625	VV	165	3500	0.07%	0.036%
293	19.733	19.625	19.766	VV	1479	32125	0.69%	0.327%
294	19.781	19.766	19.799	VV	213	3317	0.07%	0.034%
295	19.938	19.799	19.953	VV	258	15337	0.33%	0.156%
296	19.988	19.953	20.004	VV	358	8214	0.18%	0.084%
297	20.027	20.004	20.056	VV	314	7852	0.17%	0.080%
298	20.109	20.056	20.141	VV	945	22388	0.48%	0.228%
299	20.225	20.141	20.244	VV	437	21855	0.47%	0.223%

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300	20.295	20.244	20.315	VV	589	19970	0.43%	0.203%
301	20.381	20.315	20.405	VV	860	33918	0.73%	0.345%
302	20.414	20.405	20.423	VV	597	6460	0.14%	0.066%
303	20.475	20.423	20.505	VV	1962	51480	1.10%	0.524%
304	20.531	20.505	20.549	VV	866	21543	0.46%	0.219%
305	20.637	20.549	20.667	VV	1036	62248	1.33%	0.634%
306	20.739	20.667	20.772	VV	1146	66959	1.43%	0.682%
307	20.789	20.772	20.798	VV	1082	16506	0.35%	0.168%
308	20.835	20.798	20.873	VV	1545	55013	1.18%	0.560%
309	21.023	20.873	21.052	VV	1566	137227	2.94%	1.398%
310	21.141	21.052	21.153	VV	1285	77947	1.67%	0.794%
311	21.166	21.153	21.173	VV	1281	15042	0.32%	0.153%
312	21.225	21.173	21.275	VV	2198	94792	2.03%	0.965%
313	21.339	21.275	21.349	VV	1220	54138	1.16%	0.551%
314	21.360	21.349	21.428	VV	1225	53624	1.15%	0.546%
315	21.435	21.428	21.516	VV	1128	53577	1.15%	0.546%
316	21.552	21.516	21.627	VV	955	57322	1.23%	0.584%
317	21.659	21.627	21.711	VV	1013	41266	0.88%	0.420%
318	21.719	21.711	21.775	VV	669	23457	0.50%	0.239%
319	21.842	21.775	21.868	VV	572	29711	0.64%	0.303%
320	21.880	21.868	21.887	VV	519	5463	0.12%	0.056%
321	21.896	21.887	21.920	VV	468	8652	0.19%	0.088%
322	21.939	21.920	21.959	VV	459	9652	0.21%	0.098%
323	21.978	21.959	22.031	VV	431	15750	0.34%	0.160%
324	22.038	22.031	22.049	VV	374	3564	0.08%	0.036%
325	22.056	22.049	22.082	VV	337	6064	0.13%	0.062%
326	22.161	22.082	22.283	VV	967	44441	0.95%	0.453%
327	22.359	22.283	22.371	VV	130	6444	0.14%	0.066%
328	22.381	22.371	22.391	VV	116	1107	0.02%	0.011%
329	22.402	22.391	22.421	VV	86	1013	0.02%	0.010%

Sum of corrected areas: 9818682

Aliphatic EPH 011425.M Wed Jan 29 03:47:33 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	EB	SDG No.:	Q1194
Lab Sample ID:	Q1194-08	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:31	01/28/25 19:20	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068139.D
Aliphatic C12-C16	Aliphatic C12-C16	4.94	J	1	3.61	20.0	ug/l	FC068139.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068139.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068139.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068139.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048973.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048973.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048973.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048973.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	EB	SDG No.:	Q1194
Lab Sample ID:	Q1194-08	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:31	01/28/25 19:20	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068139.D
Aliphatic C12-C16	Aliphatic C12-C16	4.94	J	1	3.61	20.0	ug/l	FC068139.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068139.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068139.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068139.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048973.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048973.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048973.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048973.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	EB	SDG No.:	Q1194
Lab Sample ID:	Q1194-08	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:31	01/28/25 19:20	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068139.D
Aliphatic C12-C16	Aliphatic C12-C16	4.94	J	1	3.61	20.0	ug/l	FC068139.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068139.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068139.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068139.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048973.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048973.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048973.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048973.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	EB	SDG No.:	Q1194
Lab Sample ID:	Q1194-08	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068139.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	4.94	J	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.2		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-08	Acq On:	28 Jan 2025 19:20
Client Sample ID:	EB	Operator:	YP/AJ
Data file:	FC068139.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.129	6.397	0	0	300	ug/ml
Aliphatic C12-C16	6.398	9.782	340191	2.47	200	ug/ml
Aliphatic C16-C21	9.783	13.137	0	0	300	ug/ml
Aliphatic C21-C28	13.138	16.791	0	0	400	ug/ml
Aliphatic C28-C40	16.792	21.605	0	0	600	ug/ml
Aliphatic EPH	3.129	21.605	340191	2.47		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.867	12.867	3706435	32.23		ug/ml
Aliphatic C9-C28	3.129	16.791	340191	2.47	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068139.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 19:20
Operator : YP/AJ
Sample : Q1194-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EB

Integration File: autoint1.e
Quant Time: Jan 29 00:45:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.867	3706435	32.229 ug/ml
Spiked Amount 50.000		Recovery = 64.46%	
Target Compounds			

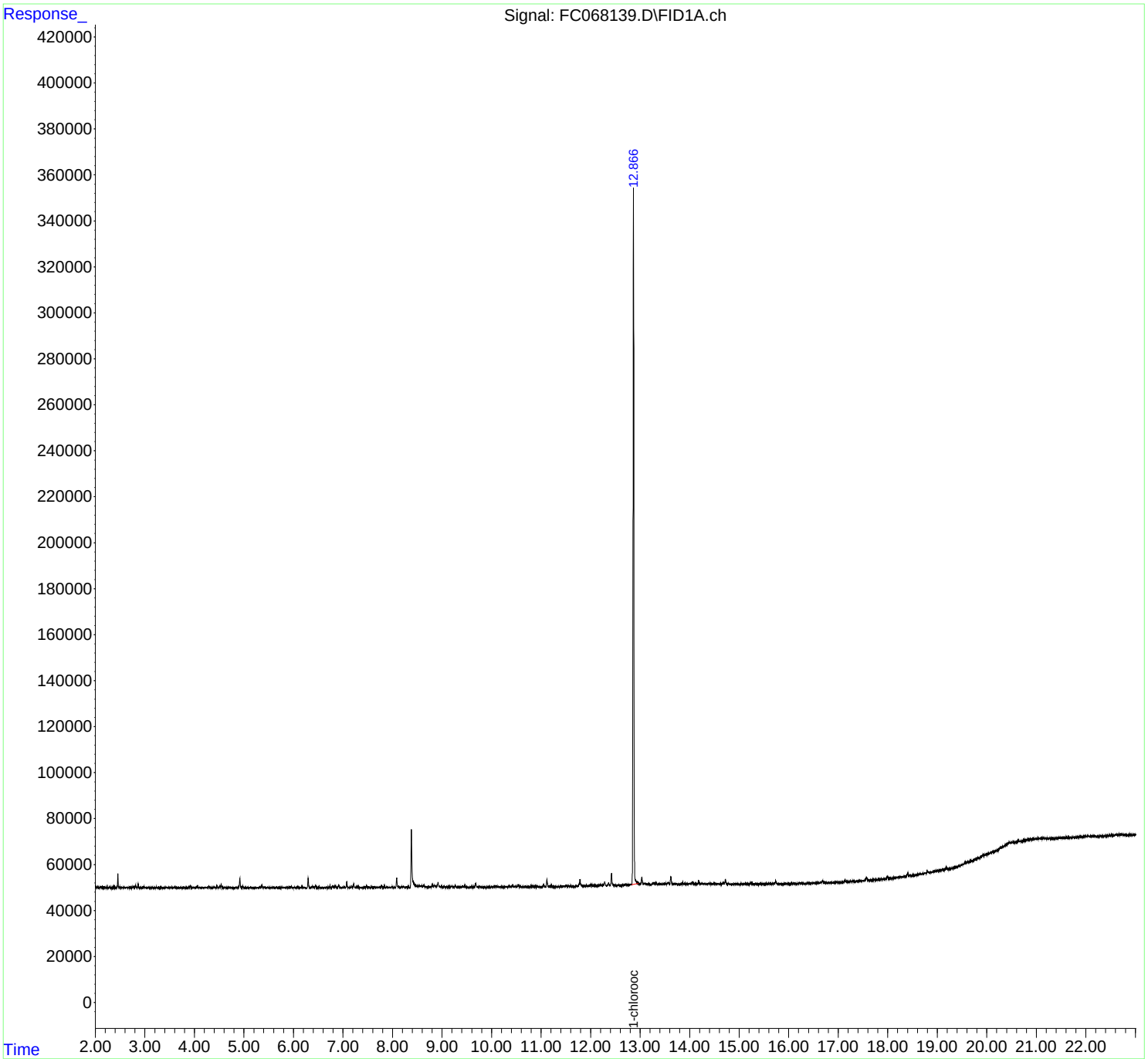
(f)=RT Delta > 1/2 Window (m)=manual int.

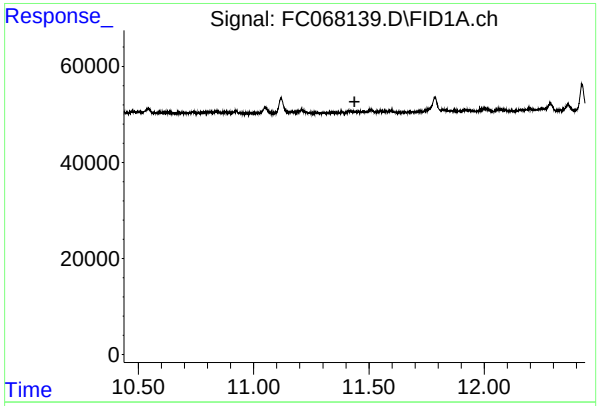
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068139.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 19:20
Operator : YP/AJ
Sample : Q1194-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EB

Integration File: autoint1.e
Quant Time: Jan 29 00:45:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

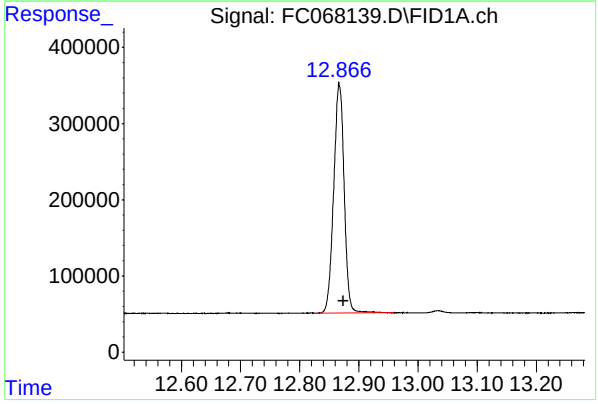




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.437 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EB



#12 1-chlorooctadecane (SURR)

R.T.: 12.867 min
Delta R.T.: -0.007 min
Response: 3706435
Conc: 32.23 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068139.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 19:20
Sample : Q1194-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	8.382	8.341	8.468	BB	25039	340191	9.18%	8.407%
2	12.867	12.828	12.958	BB	299543	3706435	100.00%	91.593%
			Sum of corrected areas:			4046626		

Aliphatic EPH 012425.M Wed Jan 29 02:08:33 2025

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	01/25/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	01/27/25
Client Sample ID:	EB	SDG No.:	Q1194
Lab Sample ID:	Q1194-08	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048973.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.8		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	48.5		40 - 140	97%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-08	Acq On:	28 Jan 2025 19:20
Client Sample ID:	EB	Operator:	YP/AJ
Data file:	FD048973.D	Misc:	
Instrument:	FID_D	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.794	44341	0.286	200	ug/ml
Aromatic C12-C16	5.795	8.400	0	0	300	ug/ml
Aromatic C16-C21	8.401	12.666	692413	4.477	500	ug/ml
Aromatic C21-C36	12.667	18.077	1353832	9.5	800	ug/ml
Aromatic EPH	4.075	18.077	2090586	14.263		ug/ml
2-Bromonaphthalene (SURR)	7.357	7.357	7373549	51.81		ug/ml
2-Flurobiphenyl (SURR)	8.208	8.208	4290320	50.42		ug/ml
ortho-Terphenyl (SURR)	11.243	11.243	7981634	48.53		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048973.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 19:20
Operator : YP/AJ
Sample : Q1194-08
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EB

Integration File: autoint1.e
Quant Time: Jan 29 02:12:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.357	7373549	51.809 ug/ml
Spiked Amount 50.000		Recovery = 103.62%	
6) S 2-Flurobiphenyl (SURR)	8.208	4290320	50.422 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.84%	
11) S ortho-Terphenyl (SURR)	11.243	7981634	48.535 ug/ml
Spiked Amount 50.000		Recovery = 97.07%	
Target Compounds			

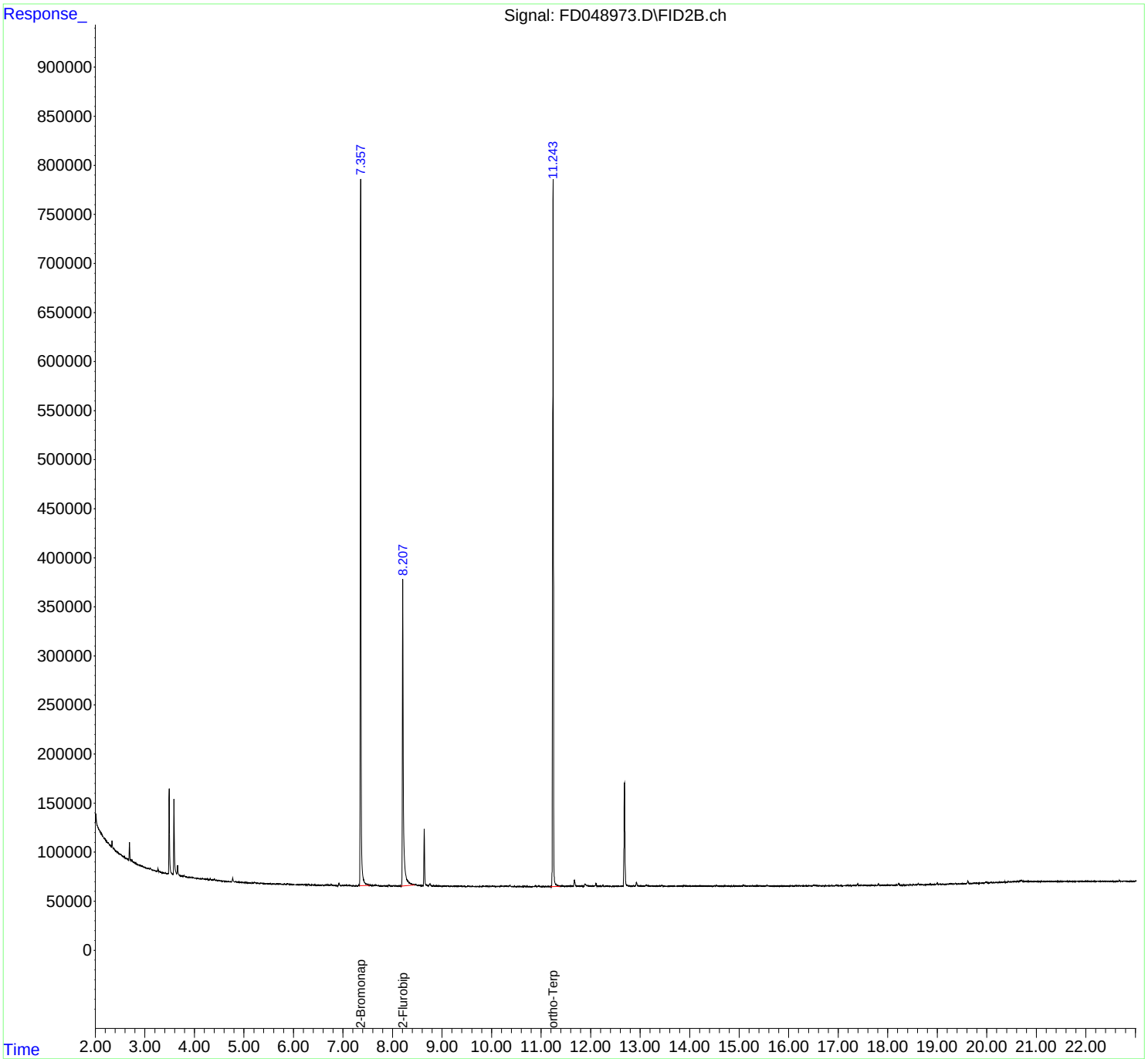
(f)=RT Delta > 1/2 Window (m)=manual int.

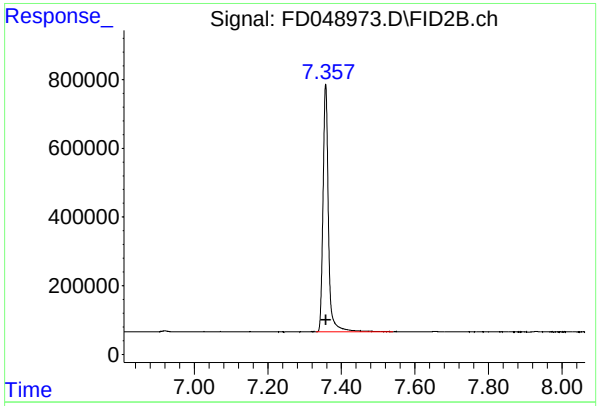
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048973.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 19:20
Operator : YP/AJ
Sample : Q1194-08
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EB

Integration File: autoint1.e
Quant Time: Jan 29 02:12:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

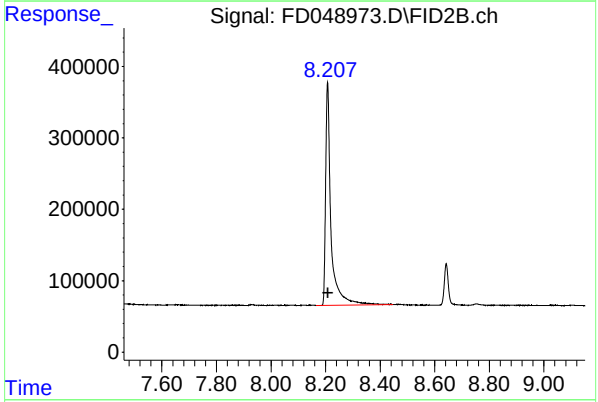




#4 2-Bromonaphthalene (SURR)

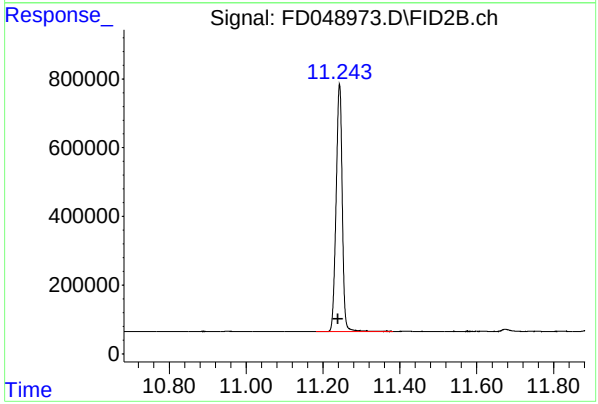
R.T.: 7.357 min
Delta R.T.: 0.000 mi
Response: 7373549
Conc: 51.81 ug/m

Instrument :
FID_D
ClientSampleId :
EB



#6 2-Flurobiphenyl (SURR)

R.T.: 8.208 min
Delta R.T.: -0.002 min
Response: 4290320
Conc: 50.42 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.243 min
Delta R.T.: 0.004 min
Response: 7981634
Conc: 48.53 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048973.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 19:20
Sample : Q1194-08
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.490	3.435	3.572	BV	86891	805833	10.10%	3.438%
2	3.587	3.572	3.643	VV	77242	766677	9.61%	3.271%
3	3.660	3.643	3.745	VB	10451	127074	1.59%	0.542%
4	4.773	4.727	4.812	BV	3746	44341	0.56%	0.189%
5	7.357	7.331	7.540	VV	720844	7373549	92.38%	31.463%
6	8.208	8.165	8.447	BB	312760	4290320	53.75%	18.307%
7	8.642	8.585	8.724	BB	58092	598880	7.50%	2.555%
8	11.243	11.182	11.382	BB	719666	7981634	100.00%	34.058%
9	11.675	11.637	11.724	BV	6390	93533	1.17%	0.399%
10	12.684	12.610	12.784	BB	105844	1300752	16.30%	5.550%
11	12.925	12.875	12.960	BV	3822	53080	0.67%	0.226%

Sum of corrected areas: 23435673

Aromatic EPH 012425.M Wed Jan 29 02:49:08 2025

CALIBRATION SUMMARY

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Fax : 908 789 8922

Inital Calibration Report for SequenceID : FC012425AL

AreaCount

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	39119921.000	19595370.000	8560674.000	4475977.000	2092923.000	
Aliphatic C12-C16	26002482.000	13035277.000	5712859.000	2968256.000	1369659.000	
Aliphatic C16-C21	37691789.000	18971800.000	8404107.000	4402241.000	2042530.000	
Aliphatic C21-C28	46742612.000	23877310.000	10488572.000	5543696.000	2601900.000	
Aliphatic C28-C40	54828663.000	28773658.000	12627086.000	6741853.000	3399332.000	
Aliphatic EPH	204385467.000	104253415.000	45793298.000	24132023.000	11506344.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	138488.1739998	5.827				
Aliphatic C12-C16	137713.071	5.793				
Aliphatic C16-C21	135019.2893328	6.678				
Aliphatic C21-C28	127207.526	7.047				
Aliphatic C28-C40	103638.8596662	9.431				
Aliphatic EPH	123700.6552216	7.023				

Concentration

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.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	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	130399.736666	130635.800000	142677.900000	149199.233333	139528.200000	
Aliphatic C12-C16	130012.410000	130352.770000	142821.475000	148412.800000	136965.900000	
Aliphatic C16-C21	125639.296666	126478.666666	140068.450000	146741.366666	136168.666666	

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Inital Calibration Report for SequenceID : FC012425AL

Aliphatic C21-C28	116856.530000	119386.550000	131107.150000	138592.400000	130095.000000	
Aliphatic C28-C40	91381.105000	95912.193333	105225.716666	112364.216666	113311.066666	
Aliphatic EPH	113547.481666	115837.127777	127203.605555	134066.794444	127848.266666	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 04:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.437	14573832	90.197 ug/ml
Spiked Amount	50.000		Recovery =	180.39%
12)	S 1-chlorooctadecane (S...	12.874	10772279	90.162 ug/ml
Spiked Amount	50.000		Recovery =	180.32%
	Target Compounds			
1)	T n-Nonane (C9)	3.236	12896666	91.779 ug/ml
2)	T n-Decane (C10)	4.295	13082082	91.420 ug/ml
3)	T A~Naphthalene (C11.7)	5.865	14453299	92.959 ug/ml
4)	T n-Dodecane (C12)	6.306	13141173	90.994 ug/ml
5)	T A~2-methylnaphthalene...	6.919	14003977	93.520 ug/ml
6)	T n-Tetradecane (C14)	8.094	12889444	91.139 ug/ml
7)	T n-Hexadecane (C16)	9.690	13113038	90.926 ug/ml
8)	T n-Octadecane (C18)	11.130	13072737	89.981 ug/ml
10)	T n-Eicosane (C20)	12.434	12431492	89.576 ug/ml
11)	T n-Heneicosane (C21)	13.044	12187560	89.521 ug/ml
13)	T n-Docosane (C22)	13.628	12054623	90.262 ug/ml
14)	T n-Tetracosane (C24)	14.728	11873929	89.419 ug/ml
15)	T n-Hexacosane (C26)	15.746	11563228	88.873 ug/ml
16)	T n-Octacosane (C28)	16.694	11250832	87.913 ug/ml
17)	T n-Tricontane (C30)	17.581	11253721	85.521 ug/ml
18)	T n-Dotriacontane (C32)	18.410	10723134	84.881 ug/ml
19)	T n-Tetratriacontane (C34)	19.191	9454823	86.012 ug/ml
20)	T n-Hexatriacontane (C36)	19.928	8235414	87.729 ug/ml
21)	T n-Octatriacontane (C38)	20.642	7745753	88.219 ug/ml
22)	T n-Tetracontane (C40)	21.501	7415818	90.622 ug/ml

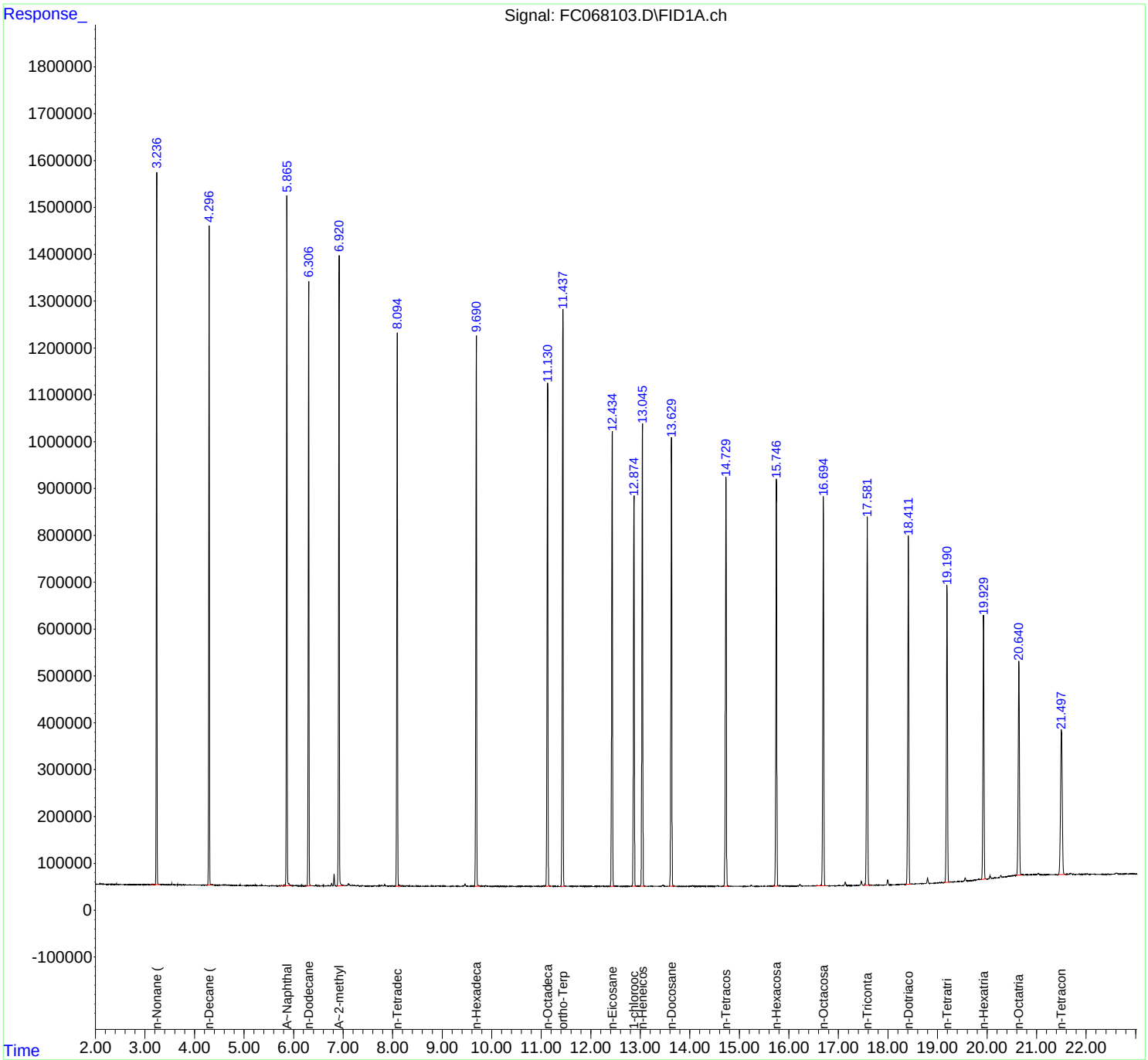
(f)=RT Delta > 1/2 Window (m)=manual int.

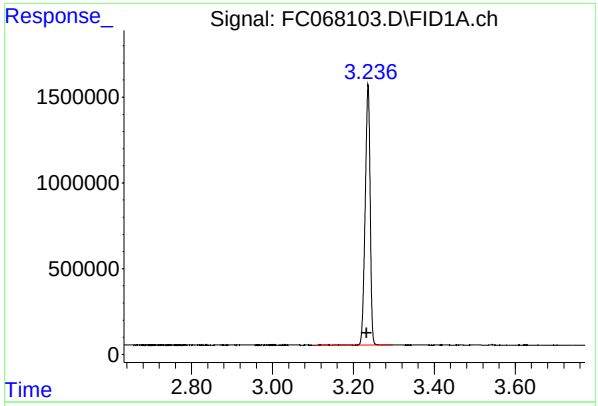
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 04:21:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

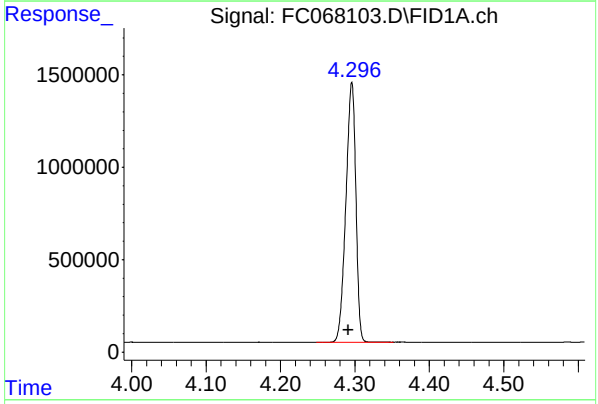




#1 n-Nonane (C9)

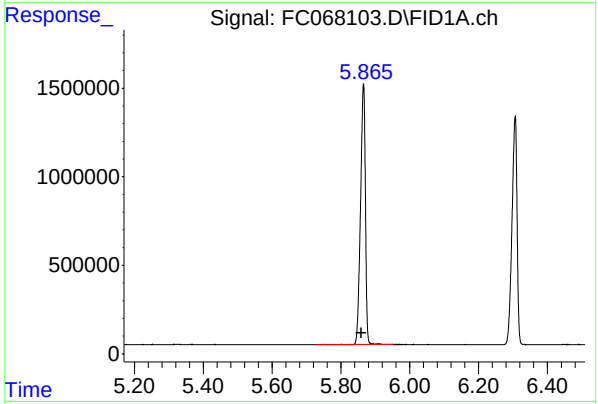
R.T.: 3.236 min
Delta R.T.: 0.003 min
Response: 12896666
Conc: 91.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



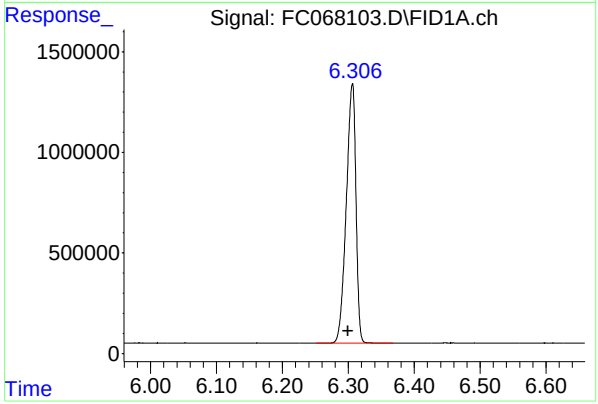
#2 n-Decane (C10)

R.T.: 4.295 min
Delta R.T.: 0.004 min
Response: 13082082
Conc: 91.42 ug/ml



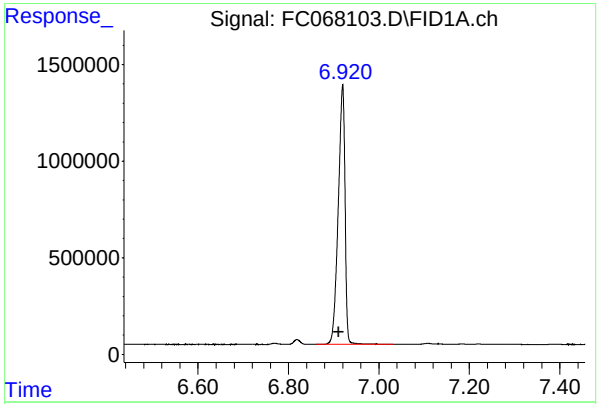
#3 A~Naphthalene (C11.7)

R.T.: 5.865 min
Delta R.T.: 0.006 min
Response: 14453299
Conc: 92.96 ug/ml



#4 n-Dodecane (C12)

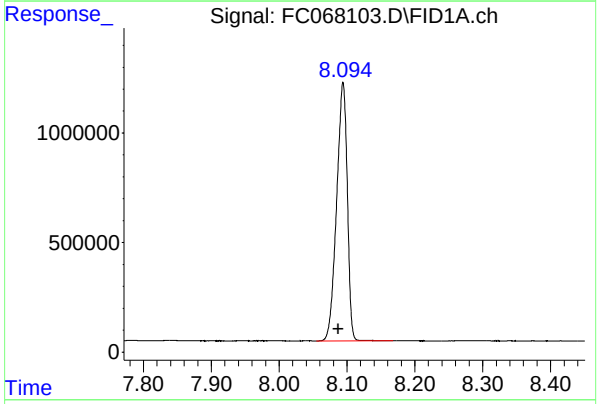
R.T.: 6.306 min
Delta R.T.: 0.006 min
Response: 13141173
Conc: 90.99 ug/ml



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

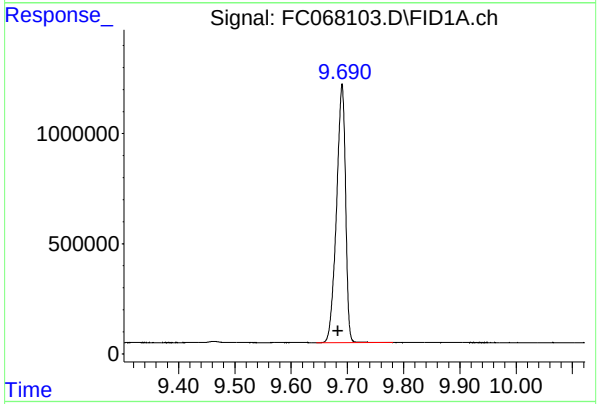
R.T.: 6.919 min
Delta R.T.: 0.008 min
Response: 14003977
Conc: 93.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



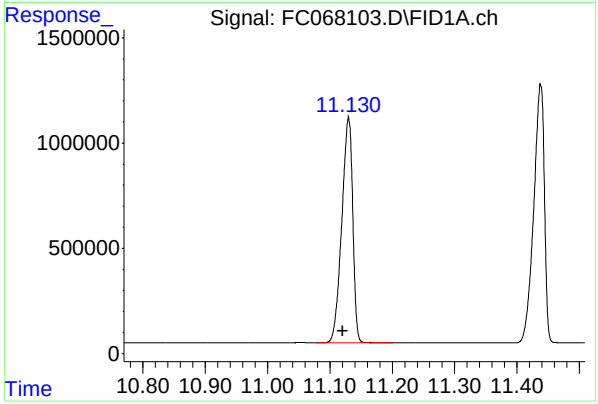
#6 n-Tetradecane (C14)

R.T.: 8.094 min
Delta R.T.: 0.007 min
Response: 12889444
Conc: 91.14 ug/ml



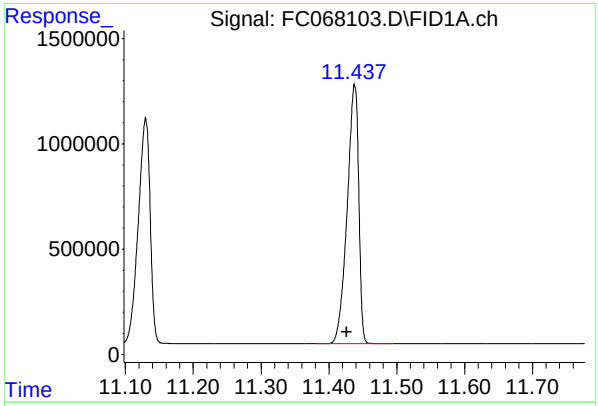
#7 n-Hexadecane (C16)

R.T.: 9.690 min
Delta R.T.: 0.007 min
Response: 13113038
Conc: 90.93 ug/ml



#8 n-Octadecane (C18)

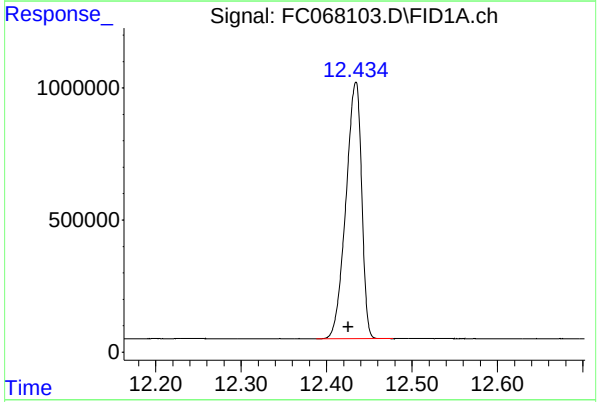
R.T.: 11.130 min
Delta R.T.: 0.009 min
Response: 13072737
Conc: 89.98 ug/ml



#9 ortho-Terphenyl (SURR)

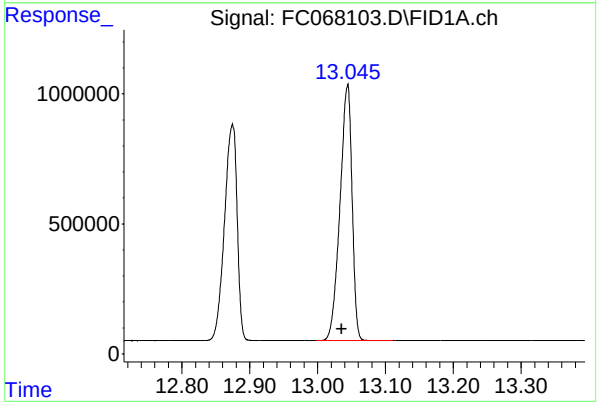
R.T.: 11.437 min
Delta R.T.: 0.011 min
Response: 14573832
Conc: 90.20 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



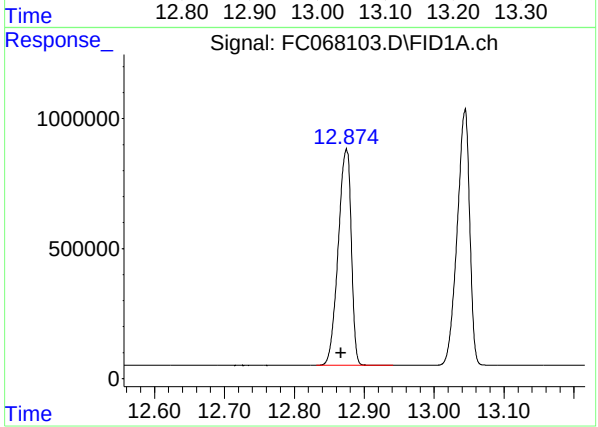
#10 n-Eicosane (C20)

R.T.: 12.434 min
Delta R.T.: 0.008 min
Response: 12431492
Conc: 89.58 ug/ml



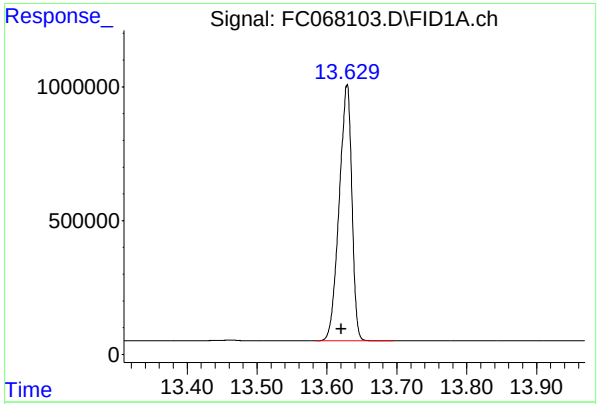
#11 n-Heneicosane (C21)

R.T.: 13.044 min
Delta R.T.: 0.008 min
Response: 12187560
Conc: 89.52 ug/ml



#12 1-chlorooctadecane (SURR)

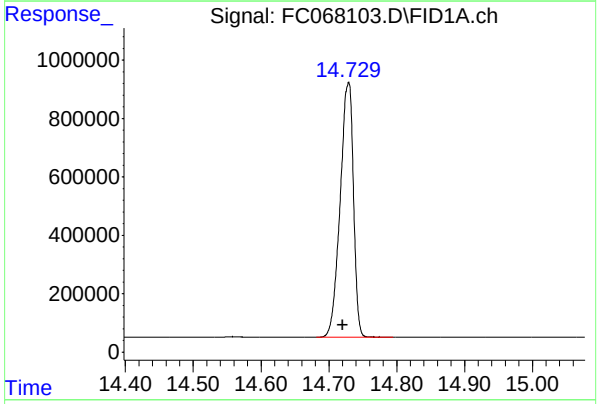
R.T.: 12.874 min
Delta R.T.: 0.007 min
Response: 10772279
Conc: 90.16 ug/ml



#13 n-Docosane (C22)

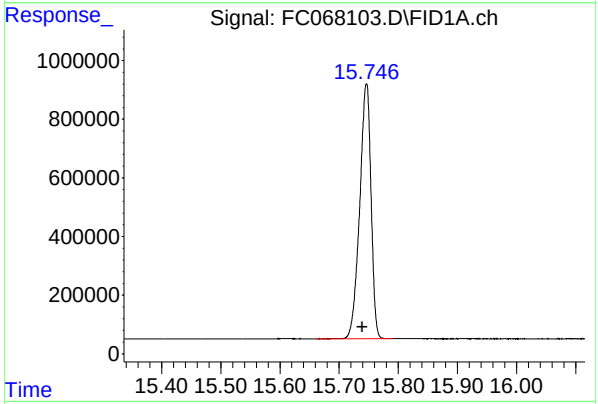
R.T.: 13.628 min
Delta R.T.: 0.008 min
Response: 12054623
Conc: 90.26 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



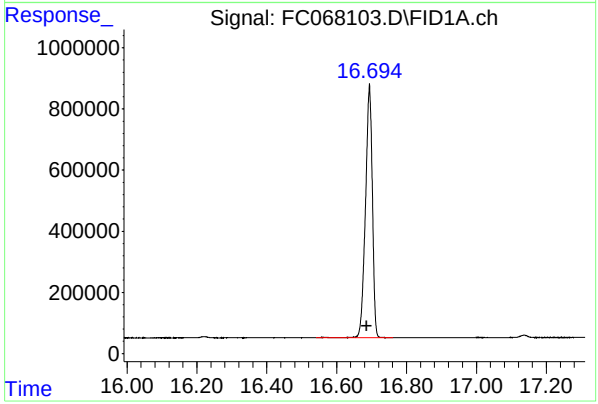
#14 n-Tetracosane (C24)

R.T.: 14.728 min
Delta R.T.: 0.008 min
Response: 11873929
Conc: 89.42 ug/ml



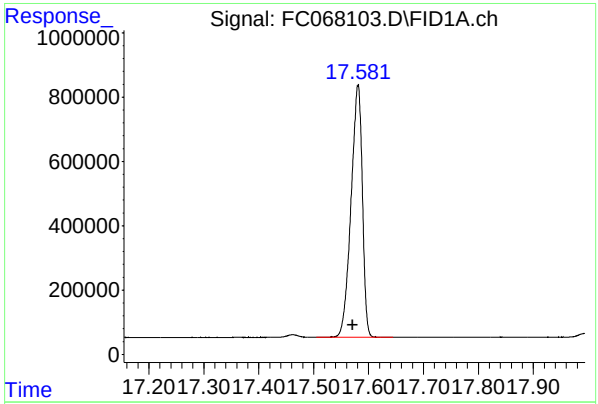
#15 n-Hexacosane (C26)

R.T.: 15.746 min
Delta R.T.: 0.007 min
Response: 11563228
Conc: 88.87 ug/ml



#16 n-Octacosane (C28)

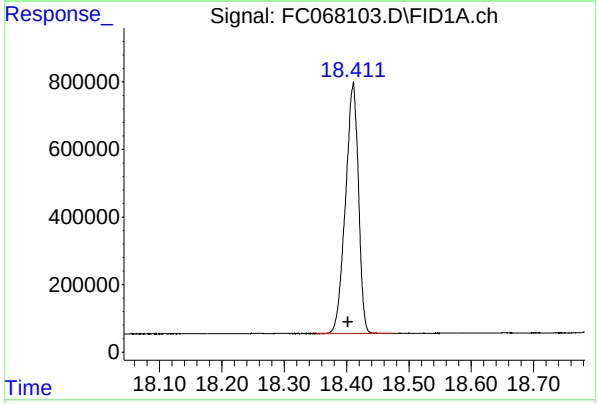
R.T.: 16.694 min
Delta R.T.: 0.008 min
Response: 11250832
Conc: 87.91 ug/ml



#17 n-Tricontane (C30)

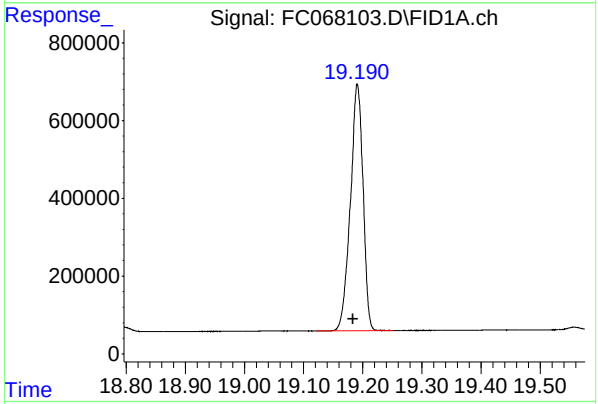
R.T.: 17.581 min
Delta R.T.: 0.009 min
Response: 11253721
Conc: 85.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



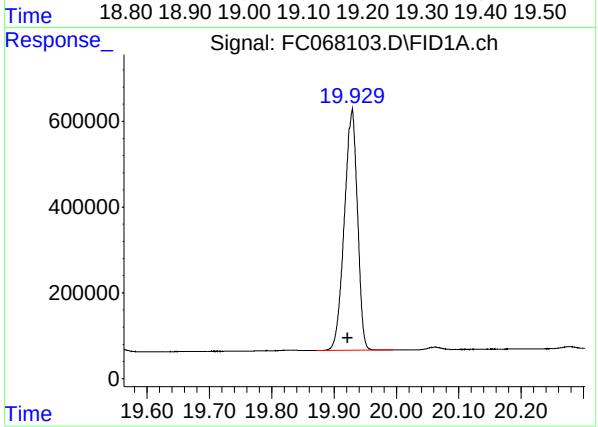
#18 n-Dotriacontane (C32)

R.T.: 18.410 min
Delta R.T.: 0.008 min
Response: 10723134
Conc: 84.88 ug/ml



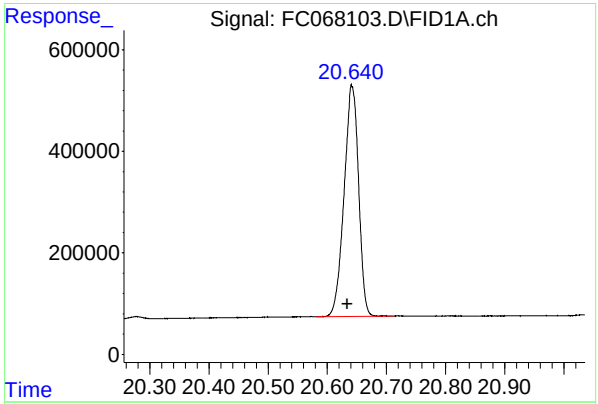
#19 n-Tetratriacontane (C34)

R.T.: 19.191 min
Delta R.T.: 0.008 min
Response: 9454823
Conc: 86.01 ug/ml



#20 n-Hexatriacontane (C36)

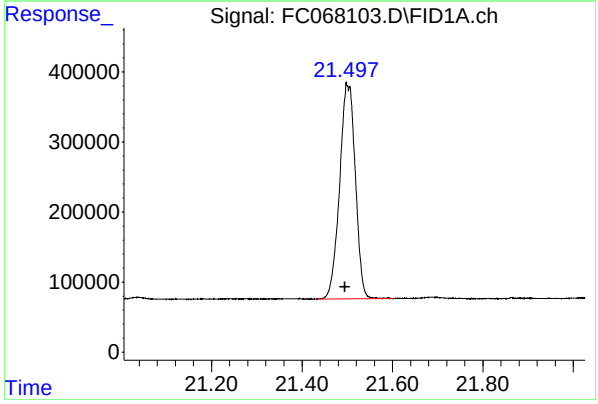
R.T.: 19.928 min
Delta R.T.: 0.006 min
Response: 8235414
Conc: 87.73 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.642 min
Delta R.T.: 0.008 mi
Response: 7745753
Conc: 88.22 ug/m

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.501 min
Delta R.T.: 0.006 min
Response: 7415818
Conc: 90.62 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.236	3.108	3.298	BB	1476777	12896666	88.49%	4.995%
2	4.295	4.248	4.351	BB	1389988	13082082	89.76%	5.067%
3	5.865	5.728	5.951	BB	1463650	14453299	99.17%	5.598%
4	6.306	6.251	6.368	BB	1273767	13141173	90.17%	5.090%
5	6.919	6.861	7.031	BB	1308343	14003977	96.09%	5.424%
6	8.094	8.054	8.168	BB	1186157	12889444	88.44%	4.992%
7	9.690	9.644	9.781	BB	1180215	13113038	89.98%	5.079%
8	11.130	11.078	11.201	BB	1079467	13072737	89.70%	5.063%
9	11.437	11.381	11.494	BB	1234445	14573832	100.00%	5.645%
10	12.434	12.388	12.478	BB	978654	12431492	85.30%	4.815%
11	12.874	12.831	12.941	BB	832699	10772279	73.92%	4.172%
12	13.044	12.998	13.111	BB	991571	12187560	83.63%	4.720%
13	13.628	13.584	13.694	BB	957218	12054623	82.71%	4.669%
14	14.728	14.681	14.794	BB	869860	11873929	81.47%	4.599%
15	15.746	15.661	15.791	BB	868521	11563228	79.34%	4.479%
16	16.694	16.541	16.761	BB	818402	11250832	77.20%	4.358%
17	17.581	17.504	17.644	BB	789424	11253721	77.22%	4.359%
18	18.410	18.351	18.474	BB	740134	10723134	73.58%	4.153%
19	19.191	19.121	19.251	BB	633829	9454823	64.88%	3.662%
20	19.928	19.871	19.994	BB	551088	8235414	56.51%	3.190%
21	20.642	20.581	20.711	BB	456102	7745753	53.15%	3.000%
22	21.501	21.431	21.601	BB	302473	7415818	50.88%	2.872%

Sum of corrected areas: 258188854

Aliphatic EPH 012425.M Sat Jan 25 04:55:10 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 04:21:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.431	7322791	45.321 ug/ml
Spiked Amount	50.000		Recovery =	90.64%
12) S	1-chlorooctadecane (S...	12.869	5415134	45.324 ug/ml
Spiked Amount	50.000		Recovery =	90.65%
	Target Compounds			
1) T	n-Nonane (C9)	3.234	6442775	45.850 ug/ml
2) T	n-Decane (C10)	4.293	6559814	45.841 ug/ml
3) T	A~Naphthalene (C11.7)	5.861	7202894	46.327 ug/ml
4) T	n-Dodecane (C12)	6.301	6592781	45.651 ug/ml
5) T	A~2-methylnaphthalene...	6.914	6965539	46.516 ug/ml
6) T	n-Tetradecane (C14)	8.090	6460619	45.682 ug/ml
7) T	n-Hexadecane (C16)	9.686	6574658	45.589 ug/ml
8) T	n-Octadecane (C18)	11.124	6583402	45.314 ug/ml
10) T	n-Eicosane (C20)	12.428	6256943	45.085 ug/ml
11) T	n-Heneicosane (C21)	13.039	6131455	45.037 ug/ml
13) T	n-Docosane (C22)	13.623	6085749	45.568 ug/ml
14) T	n-Tetracosane (C24)	14.724	6046058	45.531 ug/ml
15) T	n-Hexacosane (C26)	15.743	5918808	45.491 ug/ml
16) T	n-Octacosane (C28)	16.690	5826695	45.529 ug/ml
17) T	n-Tricontane (C30)	17.575	5915990	44.958 ug/ml
18) T	n-Dotriacontane (C32)	18.406	5678551	44.949 ug/ml
19) T	n-Tetratriacontane (C34)	19.187	4970299	45.215 ug/ml
20) T	n-Hexatriacontane (C36)	19.924	4283541	45.631 ug/ml
21) T	n-Octatriacontane (C38)	20.638	4034854	45.955 ug/ml
22) T	n-Tetracontane (C40)	21.498	3890423	47.541 ug/ml

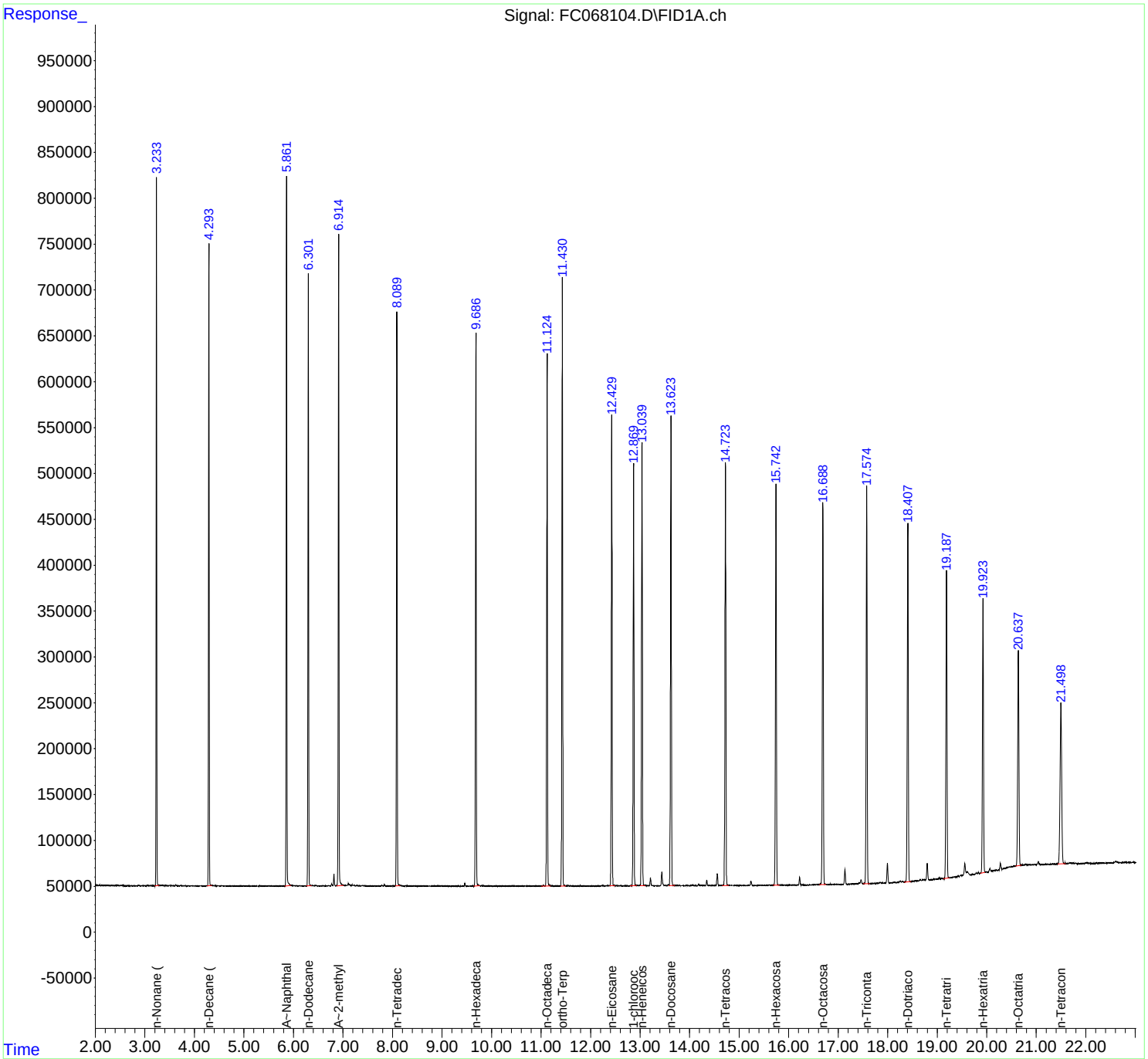
(f)=RT Delta > 1/2 Window (m)=manual int.

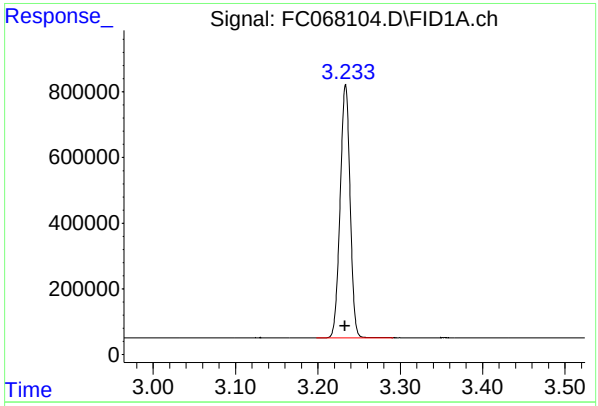
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 04:21:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

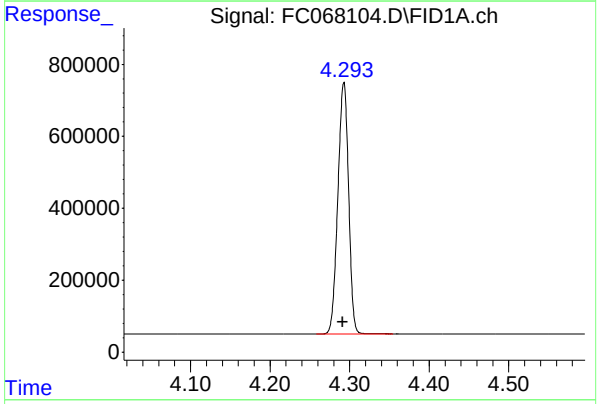




#1 n-Nonane (C9)

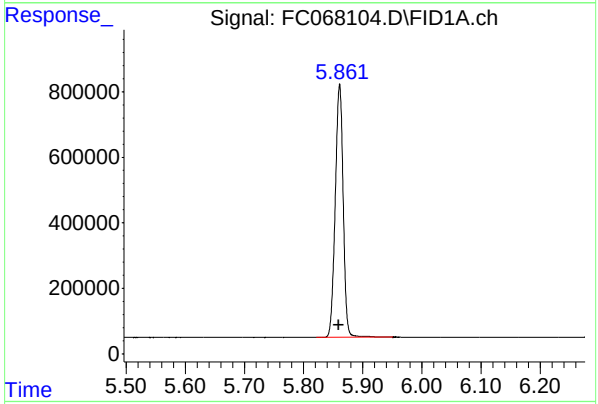
R.T.: 3.234 min
Delta R.T.: 0.000 min
Response: 6442775
Conc: 45.85 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



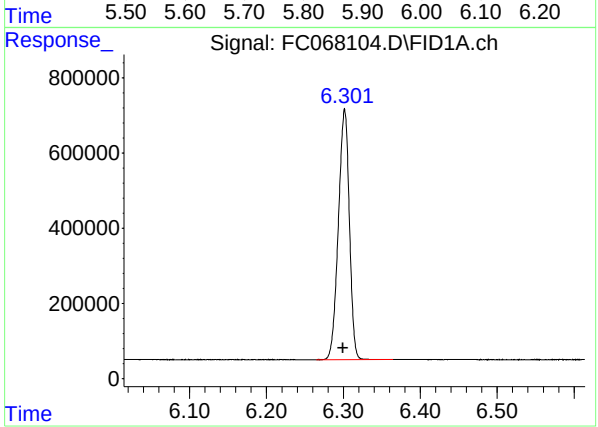
#2 n-Decane (C10)

R.T.: 4.293 min
Delta R.T.: 0.001 min
Response: 6559814
Conc: 45.84 ug/ml



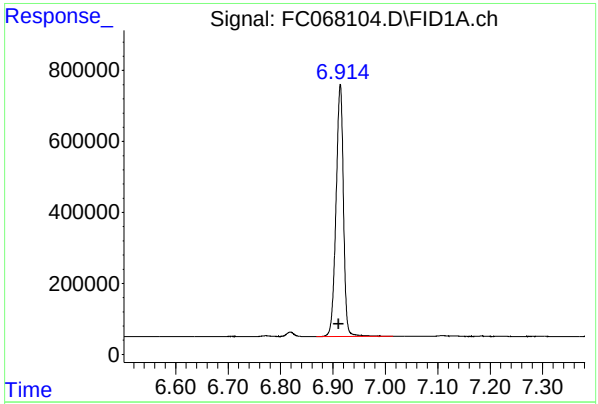
#3 A~Naphthalene (C11.7)

R.T.: 5.861 min
Delta R.T.: 0.002 min
Response: 7202894
Conc: 46.33 ug/ml



#4 n-Dodecane (C12)

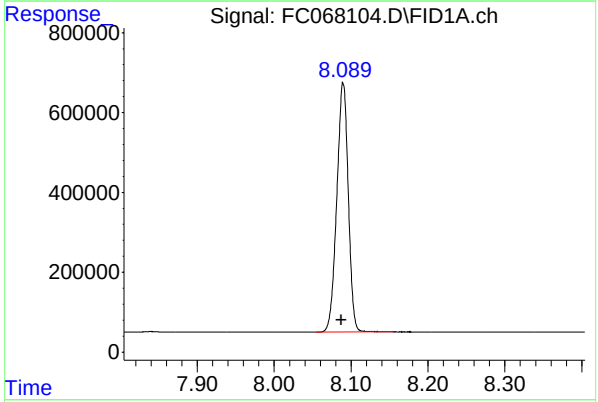
R.T.: 6.301 min
Delta R.T.: 0.002 min
Response: 6592781
Conc: 45.65 ug/ml



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

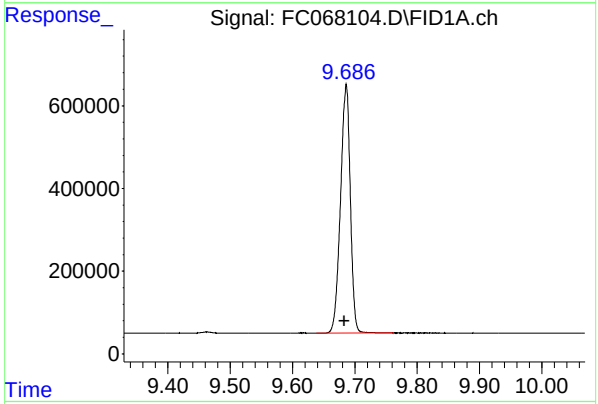
R.T.: 6.914 min
Delta R.T.: 0.003 min
Response: 6965539
Conc: 46.52 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



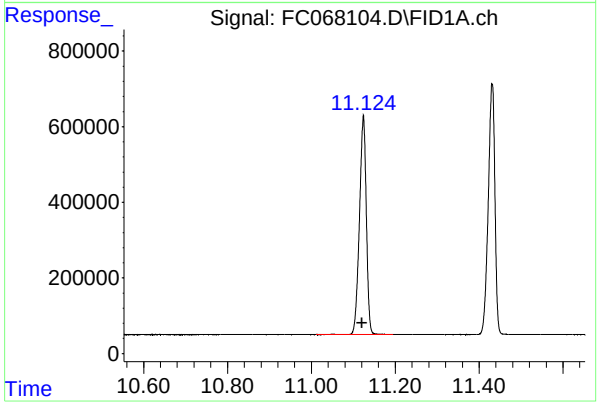
#6 n-Tetradecane (C14)

R.T.: 8.090 min
Delta R.T.: 0.002 min
Response: 6460619
Conc: 45.68 ug/ml



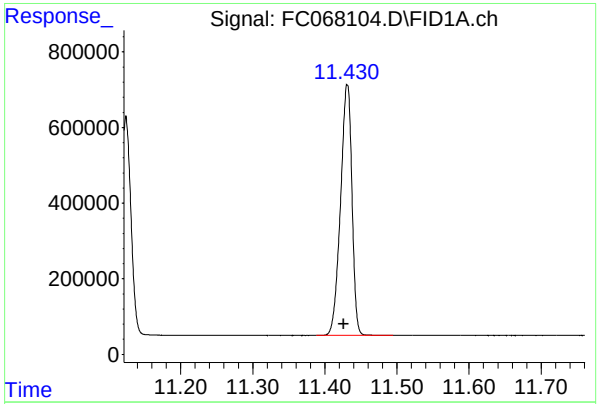
#7 n-Hexadecane (C16)

R.T.: 9.686 min
Delta R.T.: 0.003 min
Response: 6574658
Conc: 45.59 ug/ml



#8 n-Octadecane (C18)

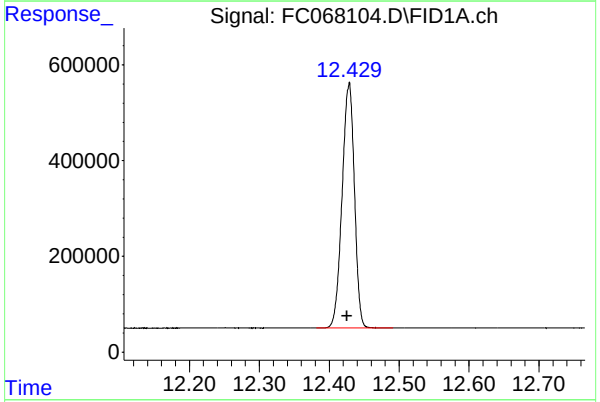
R.T.: 11.124 min
Delta R.T.: 0.003 min
Response: 6583402
Conc: 45.31 ug/ml



#9 ortho-Terphenyl (SURR)

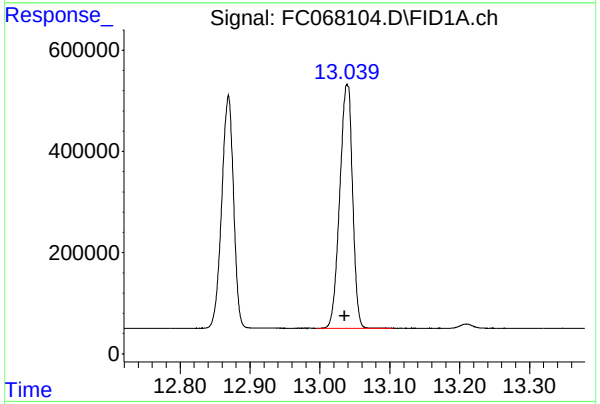
R.T.: 11.431 min
Delta R.T.: 0.005 min
Response: 7322791
Conc: 45.32 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



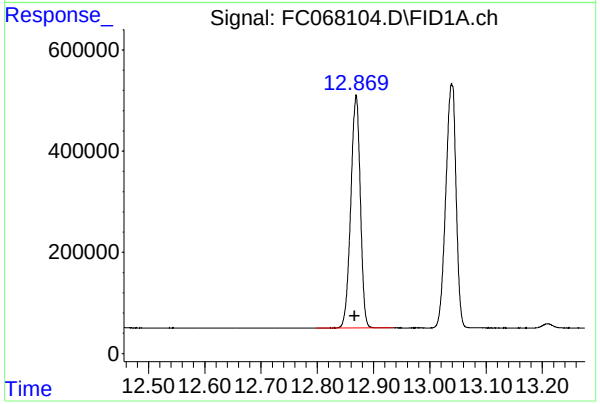
#10 n-Eicosane (C20)

R.T.: 12.428 min
Delta R.T.: 0.003 min
Response: 6256943
Conc: 45.08 ug/ml



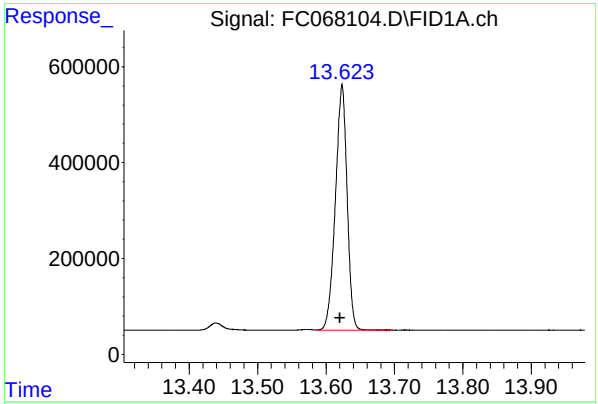
#11 n-Heneicosane (C21)

R.T.: 13.039 min
Delta R.T.: 0.003 min
Response: 6131455
Conc: 45.04 ug/ml



#12 1-chlorooctadecane (SURR)

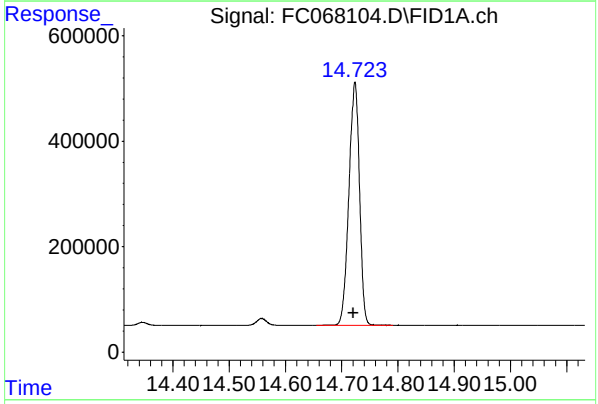
R.T.: 12.869 min
Delta R.T.: 0.002 min
Response: 5415134
Conc: 45.32 ug/ml



#13 n-Docosane (C22)

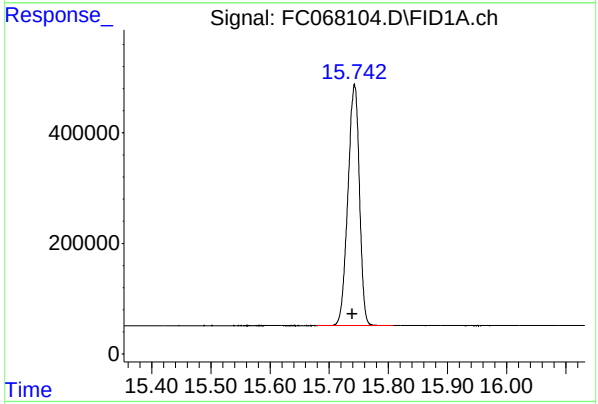
R.T.: 13.623 min
Delta R.T.: 0.003 min
Response: 6085749
Conc: 45.57 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



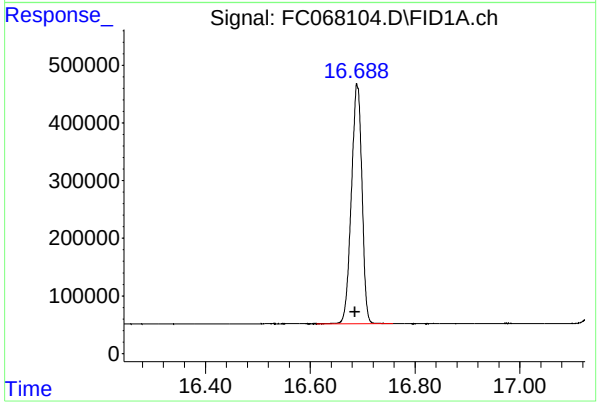
#14 n-Tetracosane (C24)

R.T.: 14.724 min
Delta R.T.: 0.003 min
Response: 6046058
Conc: 45.53 ug/ml



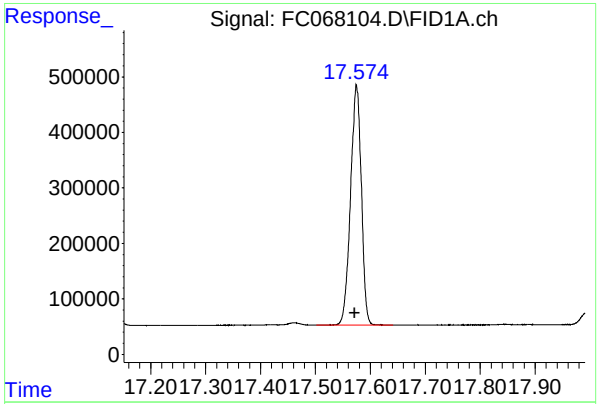
#15 n-Hexacosane (C26)

R.T.: 15.743 min
Delta R.T.: 0.003 min
Response: 5918808
Conc: 45.49 ug/ml



#16 n-Octacosane (C28)

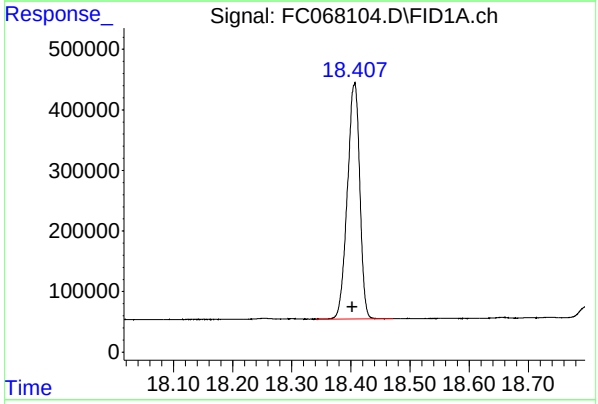
R.T.: 16.690 min
Delta R.T.: 0.004 min
Response: 5826695
Conc: 45.53 ug/ml



#17 n-Tricontane (C30)

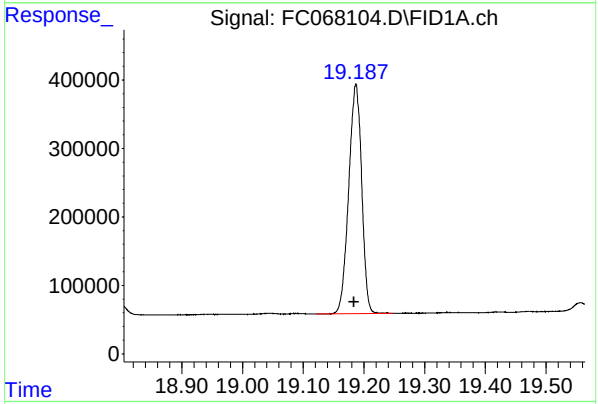
R.T.: 17.575 min
Delta R.T.: 0.004 min
Response: 5915990
Conc: 44.96 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



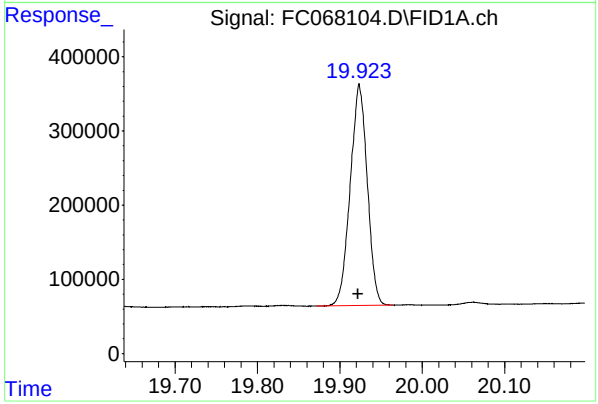
#18 n-Dotriacontane (C32)

R.T.: 18.406 min
Delta R.T.: 0.004 min
Response: 5678551
Conc: 44.95 ug/ml



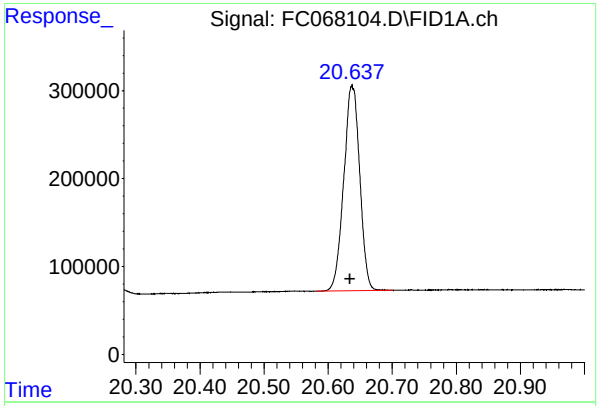
#19 n-Tetratriacontane (C34)

R.T.: 19.187 min
Delta R.T.: 0.003 min
Response: 4970299
Conc: 45.22 ug/ml



#20 n-Hexatriacontane (C36)

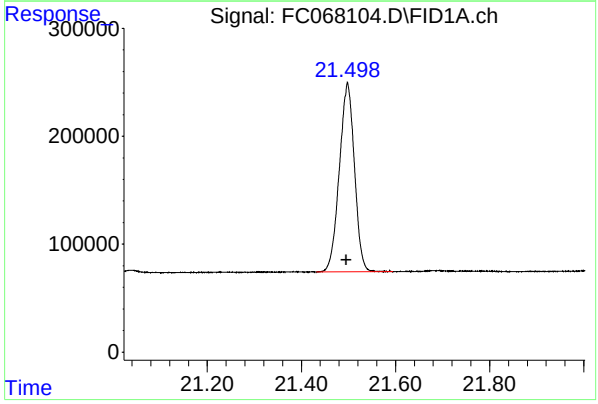
R.T.: 19.924 min
Delta R.T.: 0.002 min
Response: 4283541
Conc: 45.63 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.638 min
Delta R.T.: 0.003 min
Response: 4034854
Conc: 45.95 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.498 min
Delta R.T.: 0.003 min
Response: 3890423
Conc: 47.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.234	3.198	3.291	BB	774278	6442775	87.98%	4.912%
2	4.293	4.258	4.355	BB	693906	6559814	89.58%	5.001%
3	5.861	5.821	5.951	BB	772740	7202894	98.36%	5.492%
4	6.301	6.265	6.365	BB	662417	6592781	90.03%	5.027%
5	6.914	6.868	7.015	BB	713919	6965539	95.12%	5.311%
6	8.090	8.055	8.155	BB	627229	6460619	88.23%	4.926%
7	9.686	9.638	9.761	BB	591032	6574658	89.78%	5.013%
8	11.124	11.011	11.195	BB	577849	6583402	89.90%	5.019%
9	11.431	11.388	11.495	BB	668563	7322791	100.00%	5.583%
10	12.428	12.381	12.491	BB	508780	6256943	85.44%	4.770%
11	12.869	12.798	12.935	BB	454323	5415134	73.95%	4.129%
12	13.039	12.995	13.105	BB	483558	6131455	83.73%	4.675%
13	13.623	13.585	13.698	VB	513190	6085749	83.11%	4.640%
14	14.724	14.655	14.791	BB	462982	6046058	82.56%	4.610%
15	15.743	15.678	15.808	BB	432175	5918808	80.83%	4.513%
16	16.690	16.611	16.758	BB	414810	5826695	79.57%	4.442%
17	17.575	17.501	17.641	BB	432146	5915990	80.79%	4.511%
18	18.406	18.341	18.471	BB	388200	5678551	77.55%	4.329%
19	19.187	19.121	19.248	BB	335389	4970299	67.87%	3.789%
20	19.924	19.871	19.965	BB	294922	4283541	58.50%	3.266%
21	20.638	20.581	20.701	BB	232299	4034854	55.10%	3.076%
22	21.498	21.431	21.595	BB	175086	3890423	53.13%	2.966%

Sum of corrected areas: 131159772

Aliphatic EPH 012425.M Sat Jan 25 04:55:33 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 04:21:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.426	3231539	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	12.867	2389546	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.233	2810367	20.000 ug/ml
2) T	n-Decane (C10)	4.291	2861961	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	5.859	3109613	20.000 ug/ml
4) T	n-Dodecane (C12)	6.300	2888346	20.000 ug/ml
5) T	A~2-methylnaphthalene...	6.911	2994869	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.087	2828524	20.000 ug/ml
7) T	n-Hexadecane (C16)	9.683	2884335	20.000 ug/ml
8) T	n-Octadecane (C18)	11.120	2905661	20.000 ug/ml
10) T	n-Eicosane (C20)	12.426	2775623	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.035	2722823	20.000 ug/ml
13) T	n-Docosane (C22)	13.620	2671035	20.000 ug/ml
14) T	n-Tetracosane (C24)	14.720	2655805	20.000 ug/ml
15) T	n-Hexacosane (C26)	15.739	2602198	20.000 ug/ml
16) T	n-Octacosane (C28)	16.686	2559534	20.000 ug/ml
17) T	n-Tricontane (C30)	17.571	2631800	20.000 ug/ml
18) T	n-Dotriacontane (C32)	18.402	2526641	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.183	2198499	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	19.922	1877473	20.000 ug/ml
21) T	n-Octatriacontane (C38)	20.634	1756021	20.000 ug/ml
22) T	n-Tetracontane (C40)	21.495	1636652	20.000 ug/ml

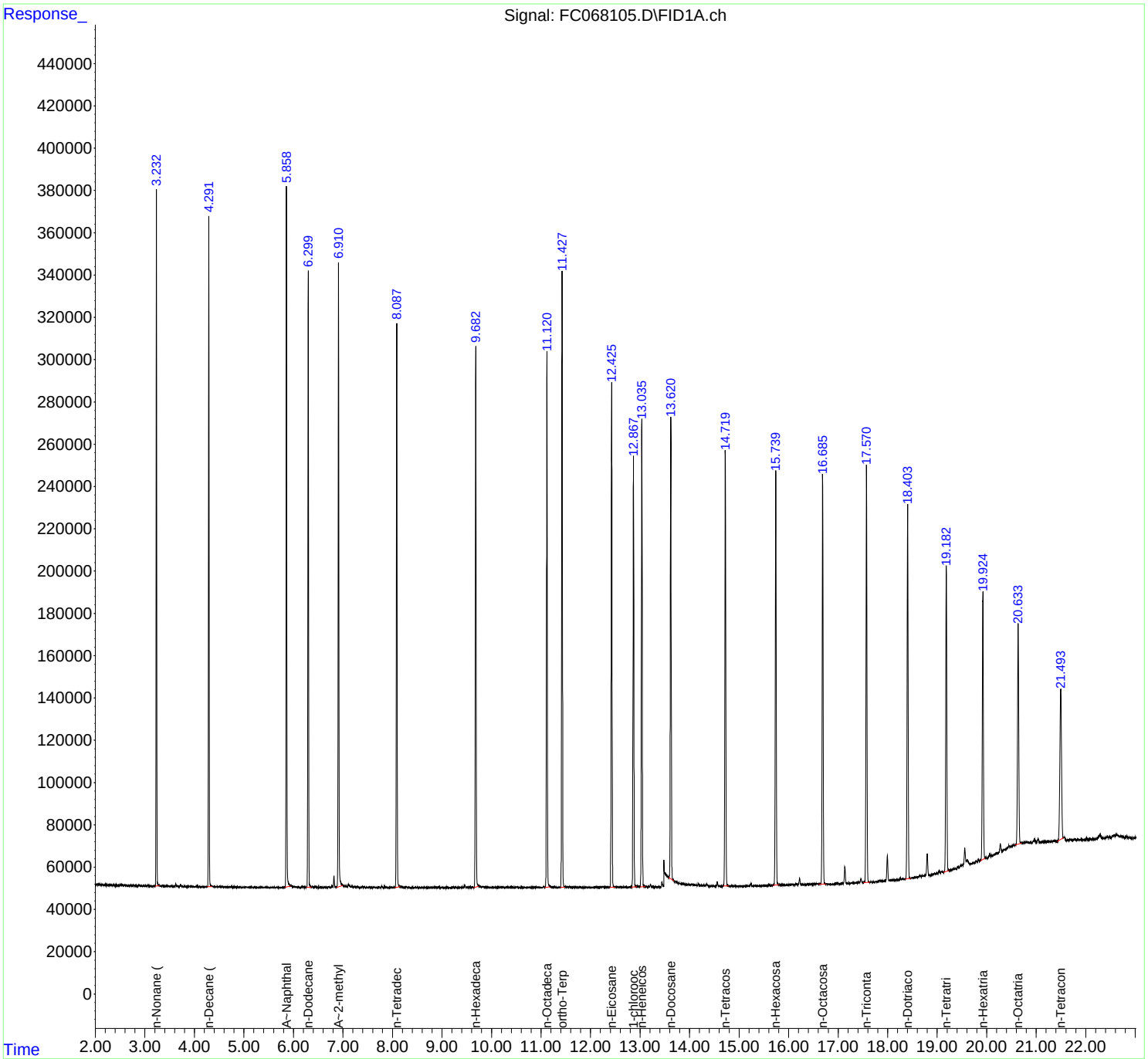
(f)=RT Delta > 1/2 Window (m)=manual int.

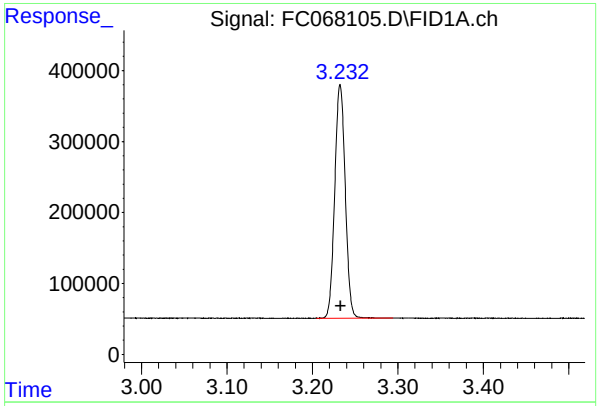
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 04:21:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

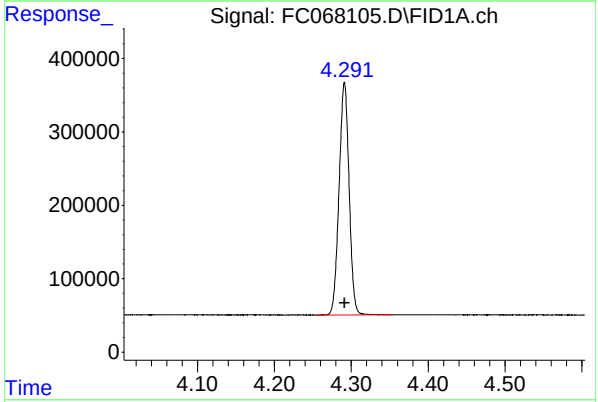




#1 n-Nonane (C9)

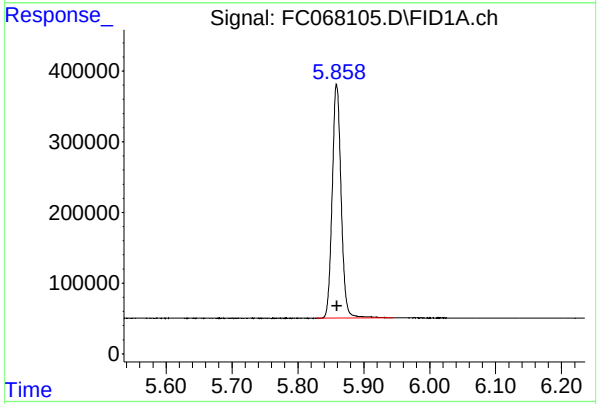
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 2810367
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



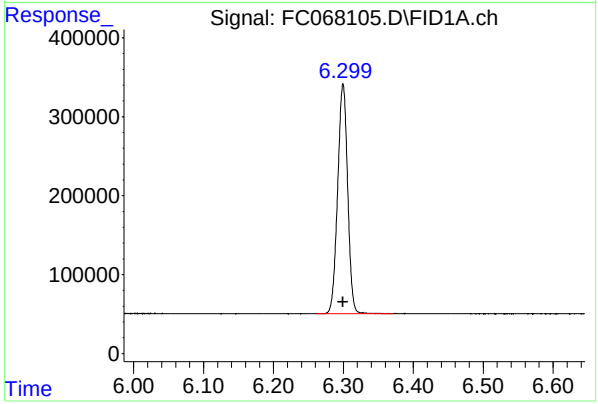
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 2861961
Conc: 20.00 ug/ml



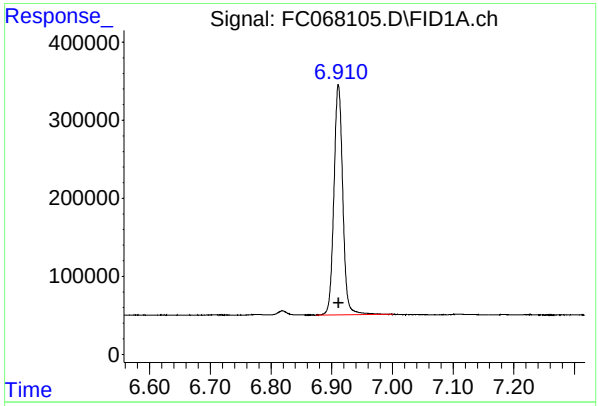
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: 0.000 min
Response: 3109613
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

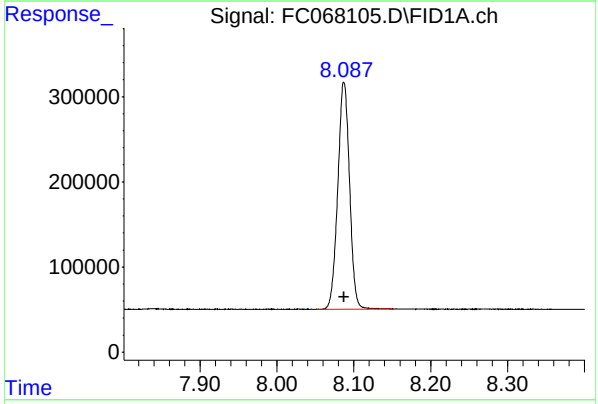
R.T.: 6.300 min
Delta R.T.: 0.000 min
Response: 2888346
Conc: 20.00 ug/ml



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

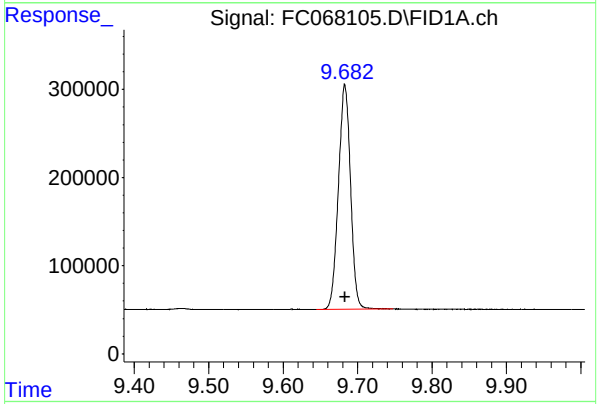
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 2994869
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



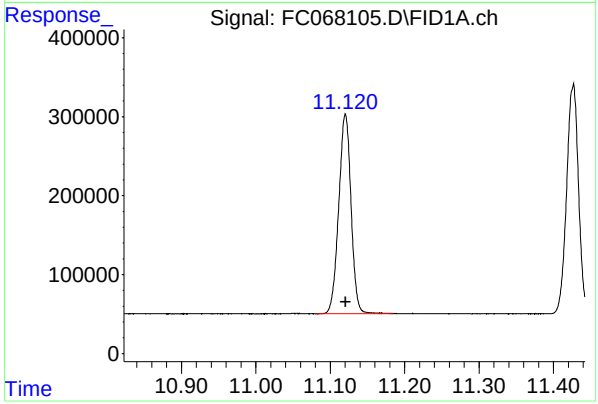
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 2828524
Conc: 20.00 ug/ml



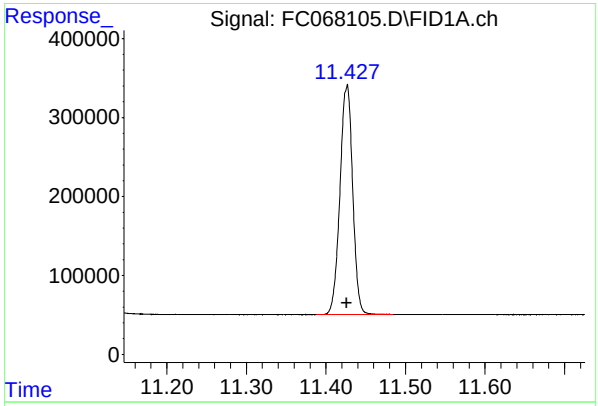
#7 n-Hexadecane (C16)

R.T.: 9.683 min
Delta R.T.: 0.000 min
Response: 2884335
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

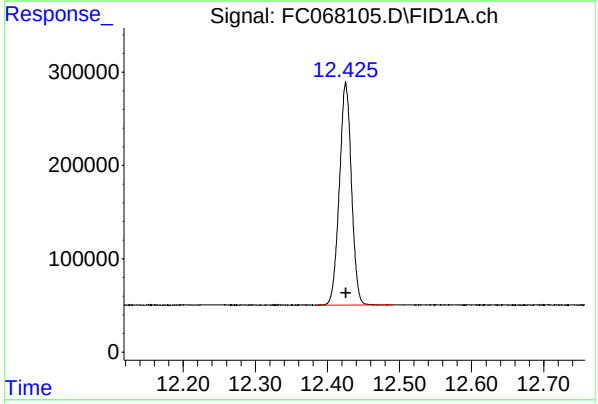
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 2905661
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

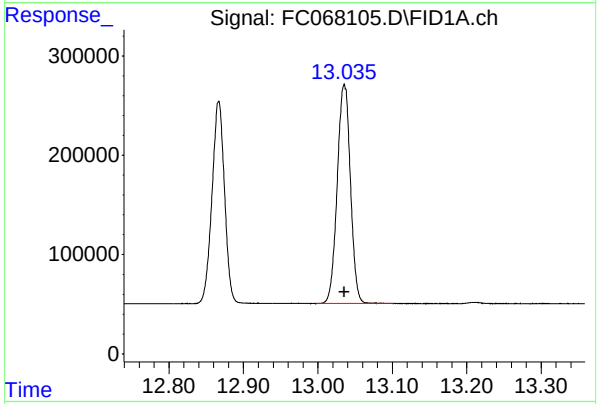
R.T.: 11.426 min
Delta R.T.: 0.000 min
Response: 3231539
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



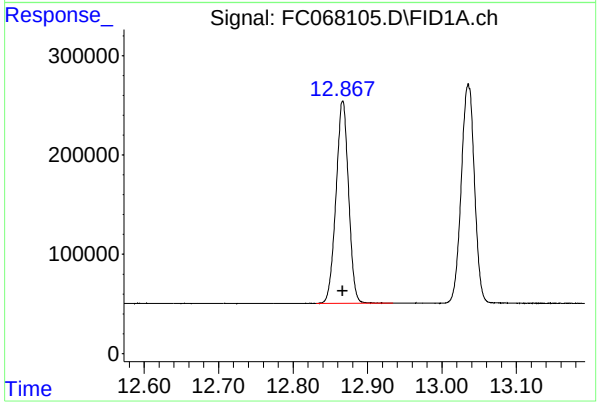
#10 n-Eicosane (C20)

R.T.: 12.426 min
Delta R.T.: 0.000 min
Response: 2775623
Conc: 20.00 ug/ml



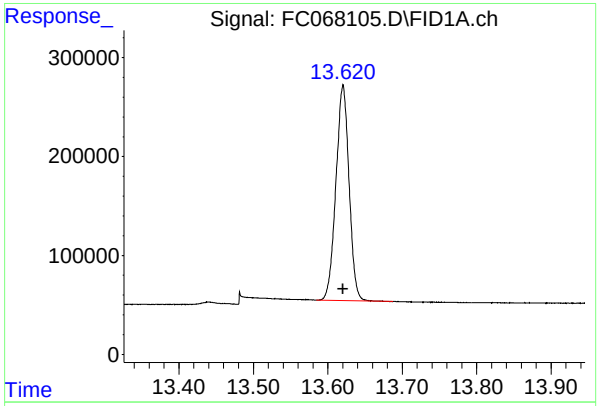
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 2722823
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

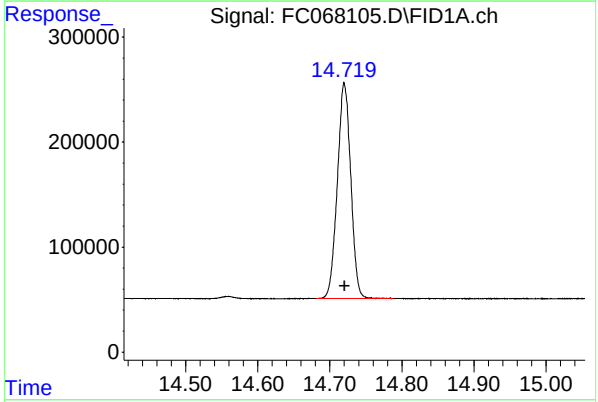
R.T.: 12.867 min
Delta R.T.: 0.000 min
Response: 2389546
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

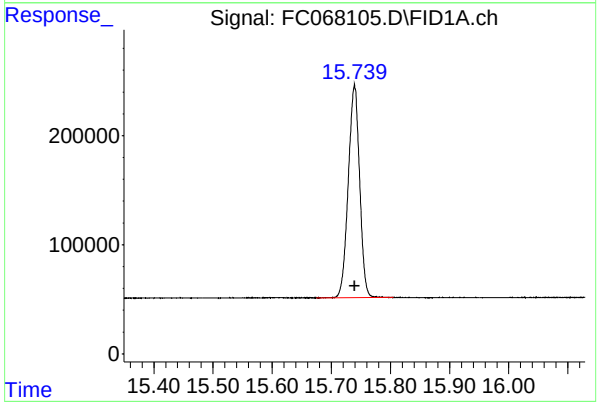
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 2671035
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



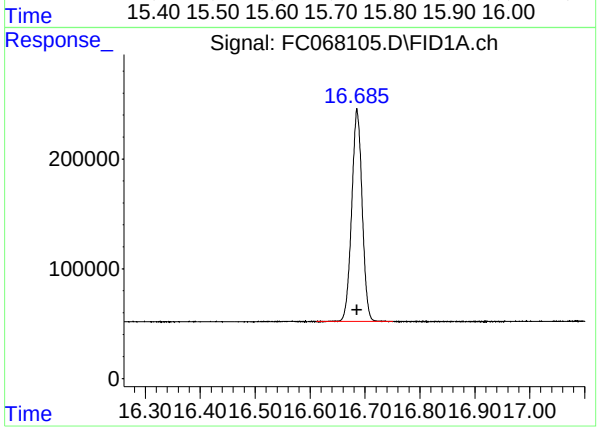
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: 0.000 min
Response: 2655805
Conc: 20.00 ug/ml



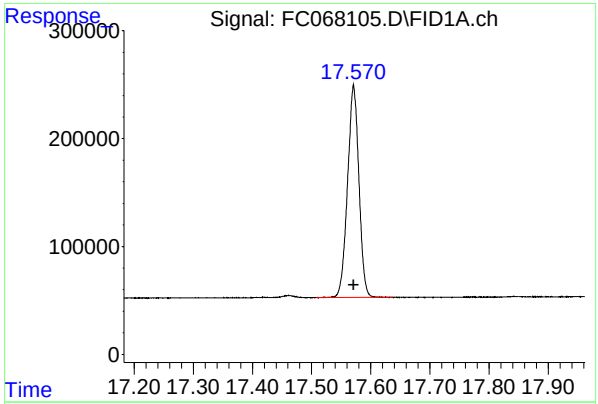
#15 n-Hexacosane (C26)

R.T.: 15.739 min
Delta R.T.: 0.000 min
Response: 2602198
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

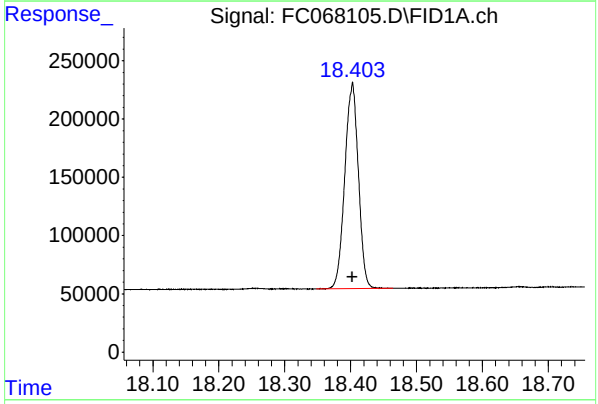
R.T.: 16.686 min
Delta R.T.: 0.000 min
Response: 2559534
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

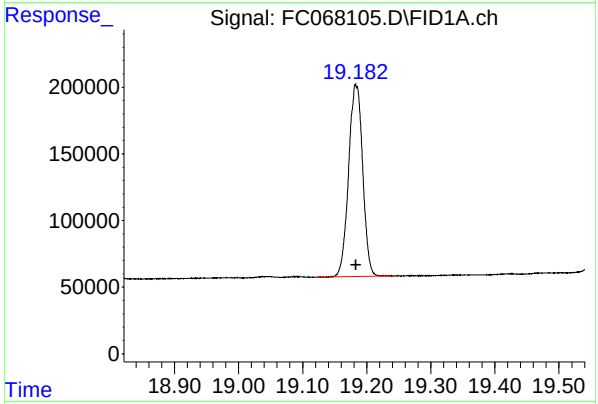
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 2631800
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



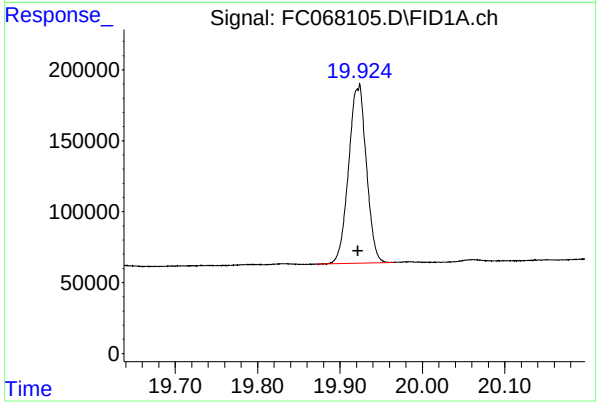
#18 n-Dotriacontane (C32)

R.T.: 18.402 min
Delta R.T.: 0.000 min
Response: 2526641
Conc: 20.00 ug/ml



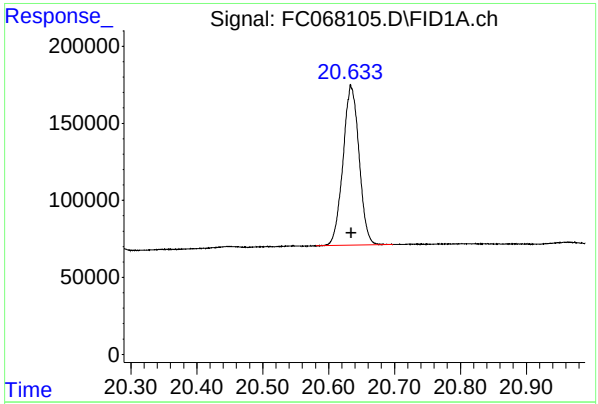
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 2198499
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

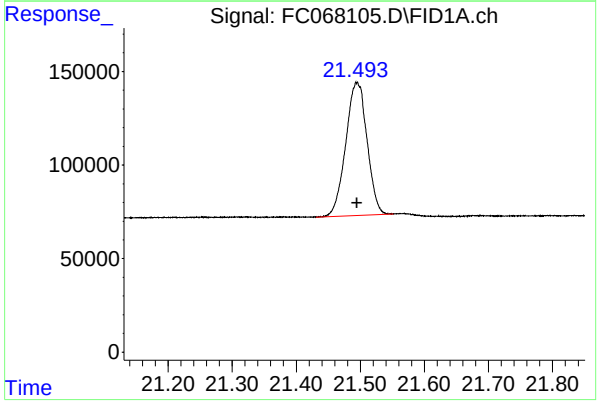
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 1877473
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.634 min
Delta R.T.: 0.000 min
Response: 1756021
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.495 min
Delta R.T.: 0.000 min
Response: 1636652
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.204	3.294	BB	327194	2810367	86.97%	4.886%
2	4.291	4.254	4.354	BB	316289	2861961	88.56%	4.976%
3	5.859	5.828	5.944	BB	331378	3109613	96.23%	5.406%
4	6.300	6.261	6.371	BB	291129	2888346	89.38%	5.022%
5	6.911	6.874	7.001	BB	294657	2994869	92.68%	5.207%
6	8.087	8.051	8.151	BB	267213	2828524	87.53%	4.918%
7	9.683	9.644	9.748	BB	252616	2884335	89.26%	5.015%
8	11.120	11.081	11.184	BB	252573	2905661	89.92%	5.052%
9	11.426	11.388	11.484	BB	292475	3231539	100.00%	5.618%
10	12.426	12.384	12.491	BB	237052	2775623	85.89%	4.826%
11	12.867	12.831	12.934	BB	204470	2389546	73.94%	4.154%
12	13.035	12.998	13.101	BB	221132	2722823	84.26%	4.734%
13	13.620	13.584	13.688	BB	216950	2671035	82.66%	4.644%
14	14.720	14.681	14.788	BB	203668	2655805	82.18%	4.617%
15	15.739	15.674	15.804	BB	193474	2602198	80.53%	4.524%
16	16.686	16.611	16.751	BB	191675	2559534	79.20%	4.450%
17	17.571	17.508	17.638	BB	195840	2631800	81.44%	4.576%
18	18.402	18.348	18.464	BB	172625	2526641	78.19%	4.393%
19	19.183	19.121	19.241	BB	143315	2198499	68.03%	3.822%
20	19.922	19.871	19.964	BB	123626	1877473	58.10%	3.264%
21	20.634	20.581	20.698	BB	103180	1756021	54.34%	3.053%
22	21.495	21.431	21.551	BB	71090	1636652	50.65%	2.845%
			Sum of corrected areas:			57518864		

Aliphatic EPH 012425.M Sat Jan 25 04:55:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 04:21:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.425	1693195	10.479 ug/ml
Spiked Amount	50.000		Recovery =	20.96%
12) S	1-chlorooctadecane (S...	12.865	1244032	10.412 ug/ml
Spiked Amount	50.000		Recovery =	20.82%
	Target Compounds			
1) T	n-Nonane (C9)	3.232	1475263	10.499 ug/ml
2) T	n-Decane (C10)	4.291	1496558	10.458 ug/ml
3) T	A~Naphthalene (C11.7)	5.859	1594666	10.256 ug/ml
4) T	n-Dodecane (C12)	6.299	1504156	10.415 ug/ml
5) T	A~2-methylnaphthalene...	6.911	1531057	10.225 ug/ml
6) T	n-Tetradecane (C14)	8.087	1470817	10.400 ug/ml
7) T	n-Hexadecane (C16)	9.682	1497439	10.383 ug/ml
8) T	n-Octadecane (C18)	11.120	1516982	10.442 ug/ml
10) T	n-Eicosane (C20)	12.424	1453910	10.476 ug/ml
11) T	n-Heneicosane (C21)	13.035	1431349	10.514 ug/ml
13) T	n-Docosane (C22)	13.620	1411126	10.566 ug/ml
14) T	n-Tetracosane (C24)	14.719	1400111	10.544 ug/ml
15) T	n-Hexacosane (C26)	15.737	1370317	10.532 ug/ml
16) T	n-Octacosane (C28)	16.685	1362142	10.644 ug/ml
17) T	n-Tricontane (C30)	17.570	1402454	10.658 ug/ml
18) T	n-Dotriacontane (C32)	18.401	1354078	10.718 ug/ml
19) T	n-Tetratriacontane (C34)	19.183	1175638	10.695 ug/ml
20) T	n-Hexatriacontane (C36)	19.921	1013341	10.795 ug/ml
21) T	n-Octatriacontane (C38)	20.635	924019	10.524 ug/ml
22) T	n-Tetracontane (C40)	21.497	872323	10.660 ug/ml

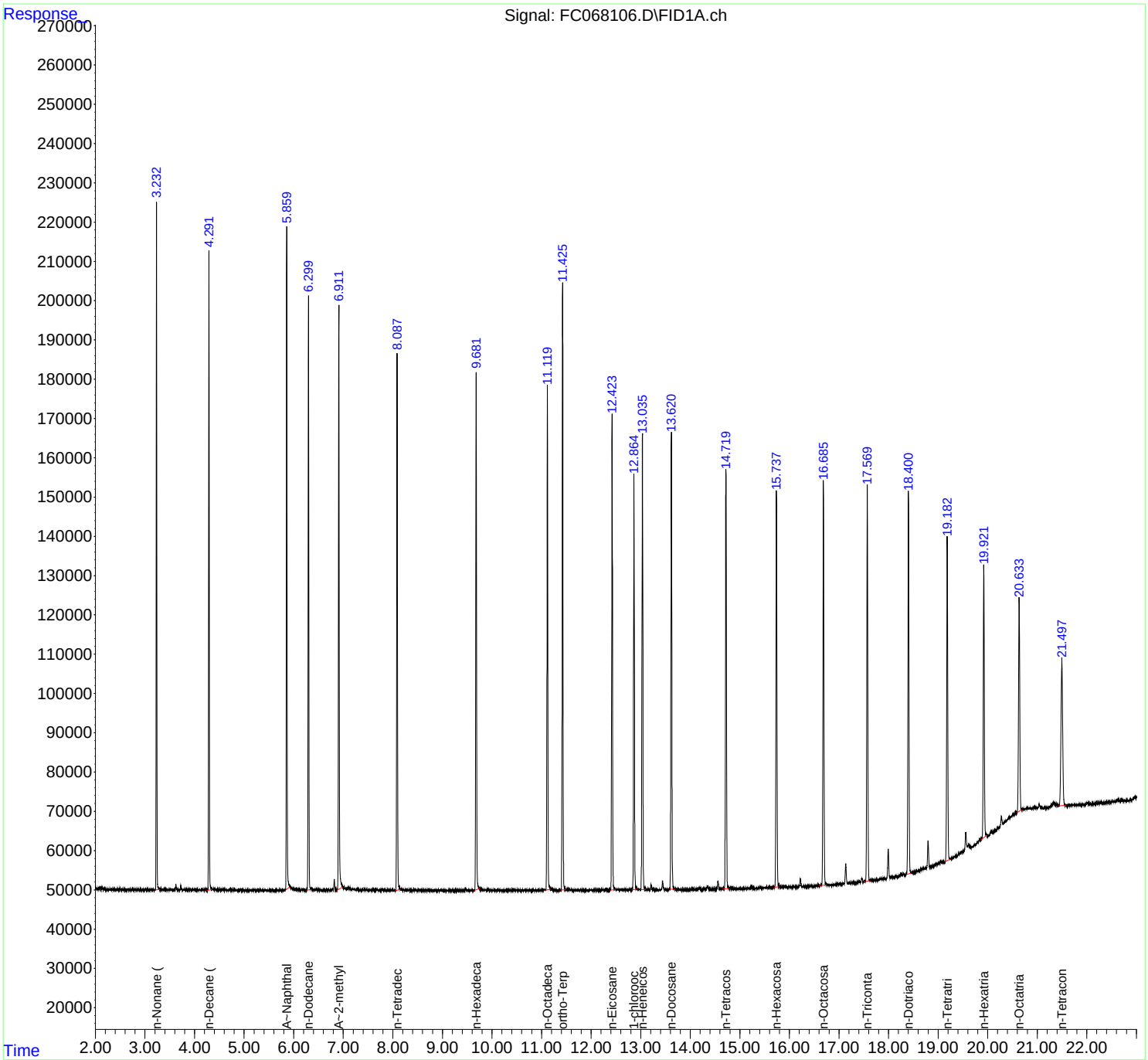
(f)=RT Delta > 1/2 Window (m)=manual int.

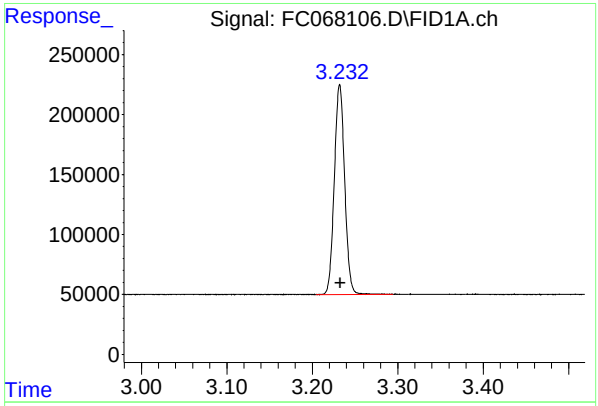
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 04:21:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

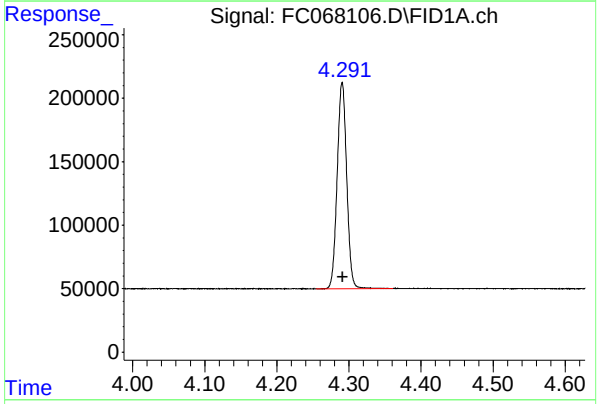




#1 n-Nonane (C9)

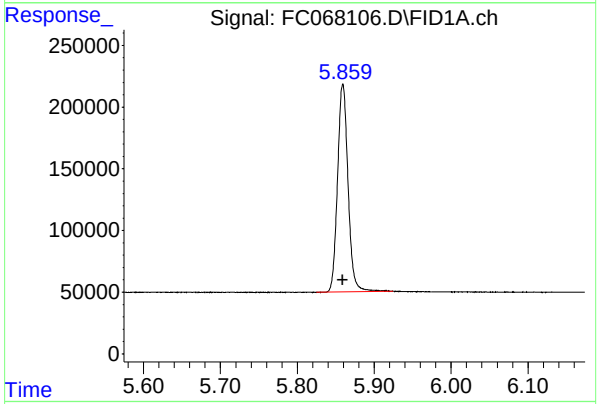
R.T.: 3.232 min
Delta R.T.: 0.000 min
Response: 1475263
Conc: 10.50 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



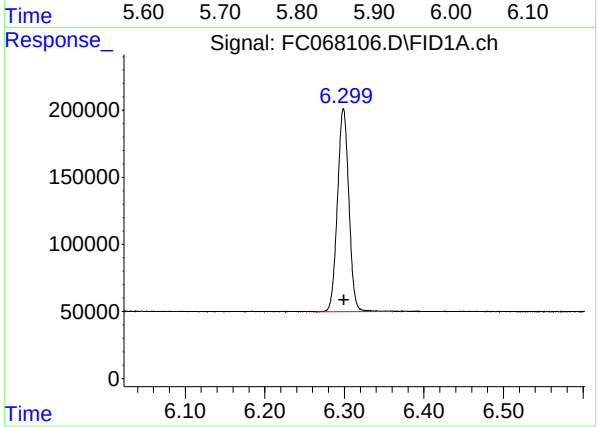
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 1496558
Conc: 10.46 ug/ml



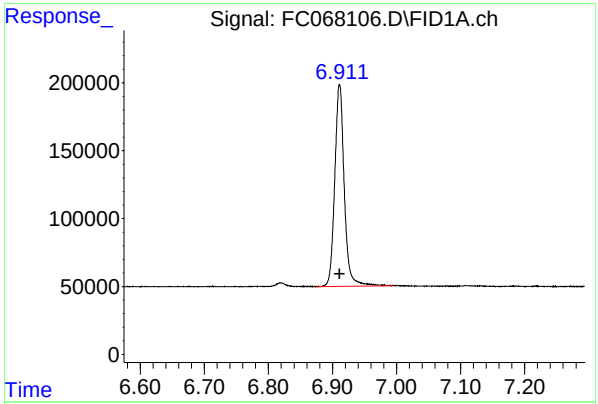
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: 0.000 min
Response: 1594666
Conc: 10.26 ug/ml



#4 n-Dodecane (C12)

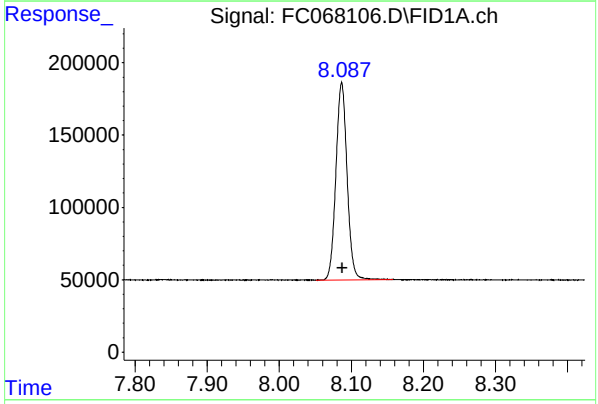
R.T.: 6.299 min
Delta R.T.: 0.000 min
Response: 1504156
Conc: 10.42 ug/ml



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

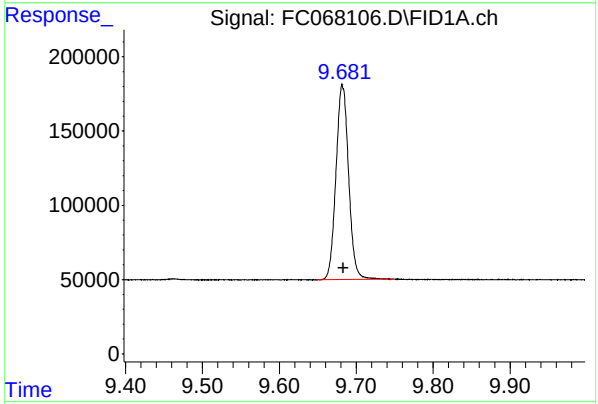
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 1531057
Conc: 10.22 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



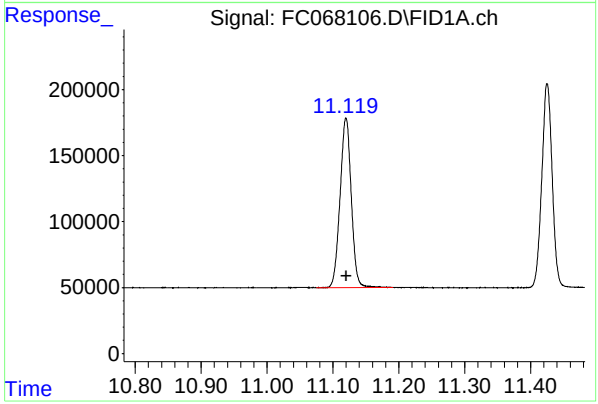
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 1470817
Conc: 10.40 ug/ml



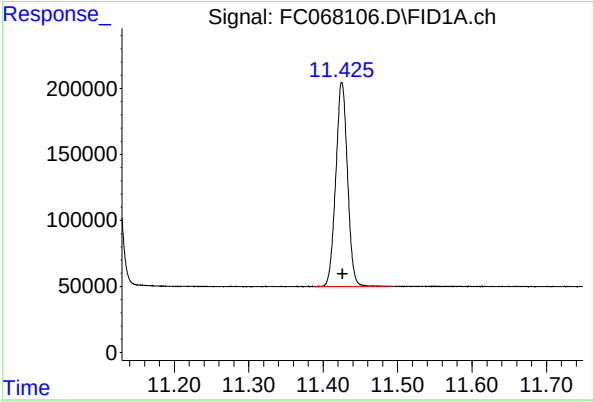
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: 0.000 min
Response: 1497439
Conc: 10.38 ug/ml



#8 n-Octadecane (C18)

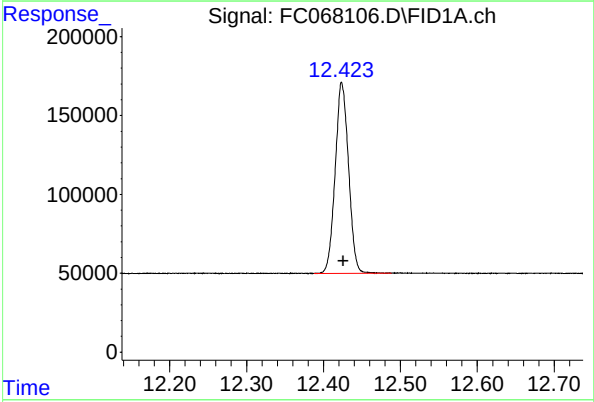
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 1516982
Conc: 10.44 ug/ml



#9 ortho-Terphenyl (SURR)

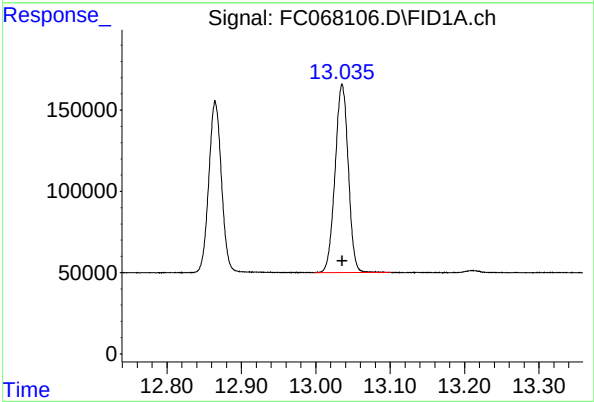
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 1693195
Conc: 10.48 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



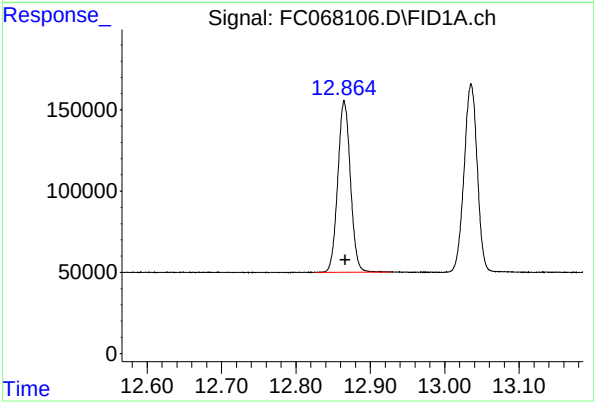
#10 n-Eicosane (C20)

R.T.: 12.424 min
Delta R.T.: -0.001 min
Response: 1453910
Conc: 10.48 ug/ml



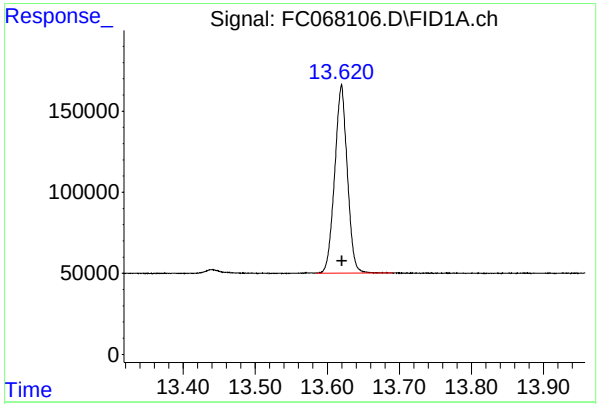
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 1431349
Conc: 10.51 ug/ml



#12 1-chlorooctadecane (SURR)

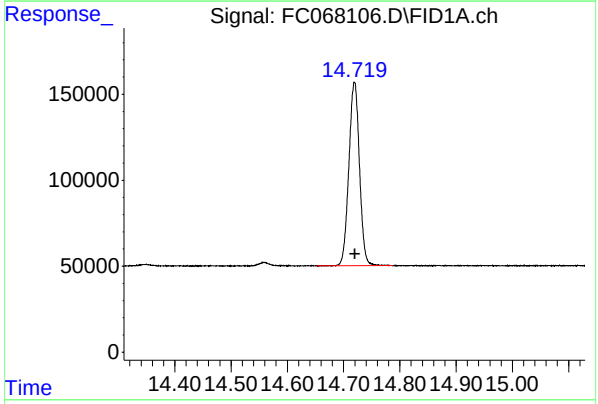
R.T.: 12.865 min
Delta R.T.: -0.002 min
Response: 1244032
Conc: 10.41 ug/ml



#13 n-Docosane (C22)

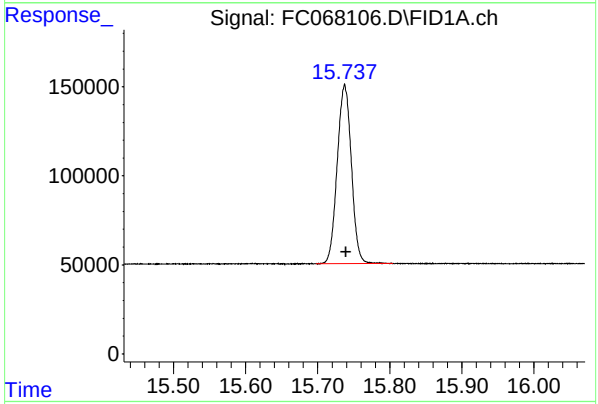
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 1411126
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



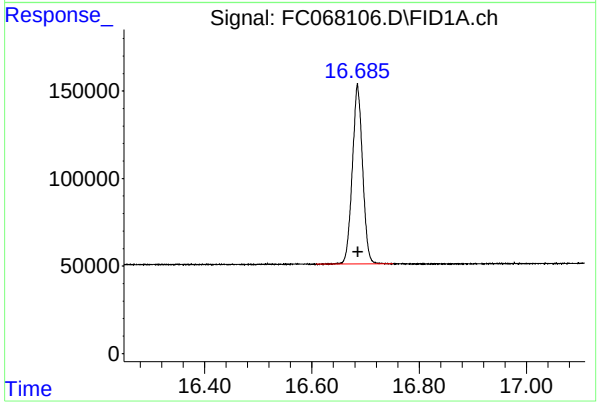
#14 n-Tetracosane (C24)

R.T.: 14.719 min
Delta R.T.: 0.000 min
Response: 1400111
Conc: 10.54 ug/ml



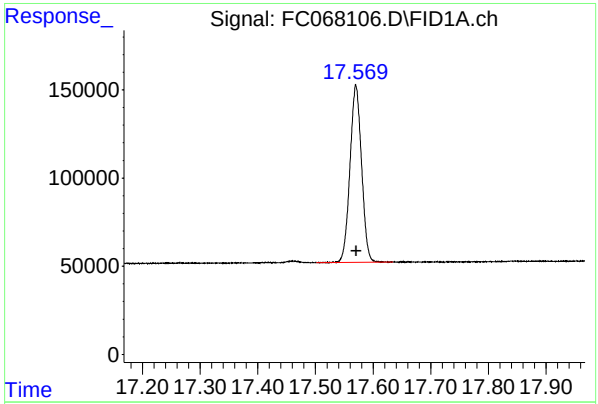
#15 n-Hexacosane (C26)

R.T.: 15.737 min
Delta R.T.: -0.002 min
Response: 1370317
Conc: 10.53 ug/ml



#16 n-Octacosane (C28)

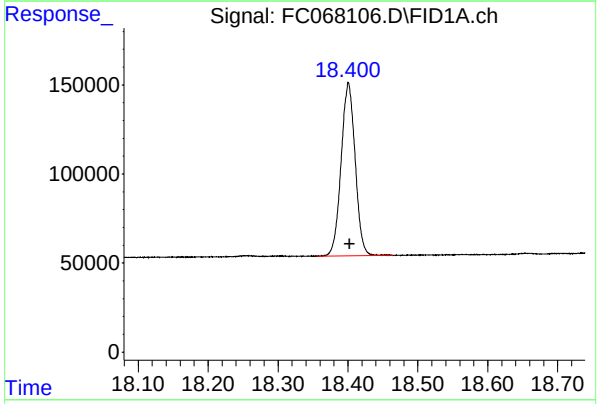
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 1362142
Conc: 10.64 ug/ml



#17 n-Tricontane (C30)

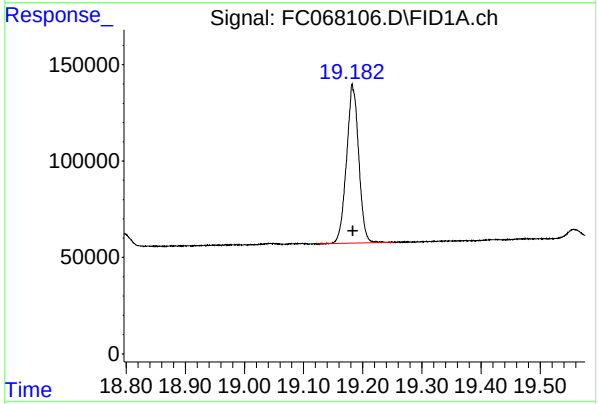
R.T.: 17.570 min
Delta R.T.: 0.000 min
Response: 1402454
Conc: 10.66 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



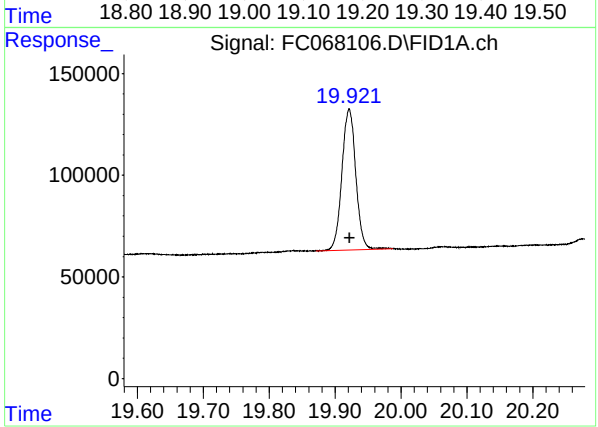
#18 n-Dotriacontane (C32)

R.T.: 18.401 min
Delta R.T.: -0.002 min
Response: 1354078
Conc: 10.72 ug/ml



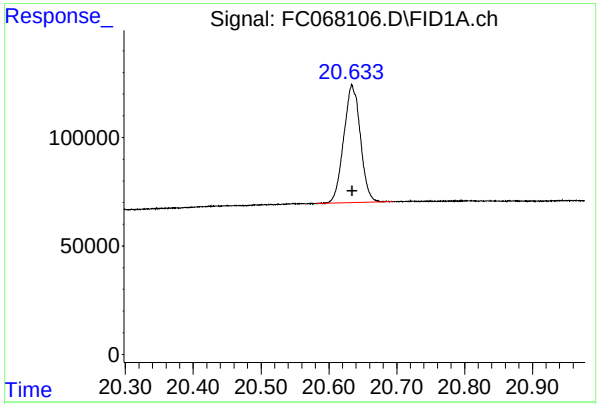
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 1175638
Conc: 10.69 ug/ml



#20 n-Hexatriacontane (C36)

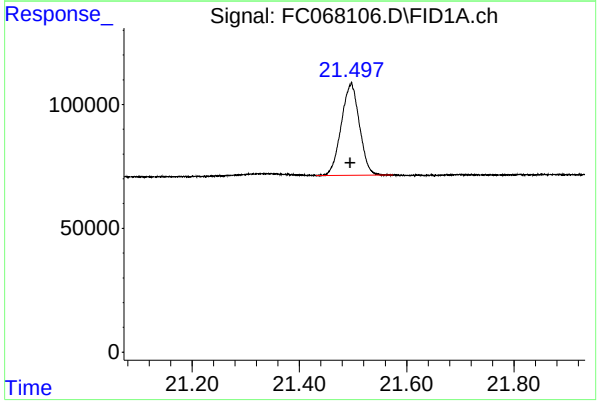
R.T.: 19.921 min
Delta R.T.: 0.000 min
Response: 1013341
Conc: 10.79 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.635 min
Delta R.T.: 0.000 min
Response: 924019
Conc: 10.52 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.497 min
Delta R.T.: 0.002 min
Response: 872323
Conc: 10.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.232	3.204	3.294	BB	173891	1475263	87.13%	4.886%
2	4.291	4.254	4.361	BB	162720	1496558	88.39%	4.956%
3	5.859	5.824	5.924	BB	168195	1594666	94.18%	5.281%
4	6.299	6.264	6.361	BB	150731	1504156	88.84%	4.981%
5	6.911	6.874	6.994	BB	149273	1531057	90.42%	5.071%
6	8.087	8.051	8.158	BB	136084	1470817	86.87%	4.871%
7	9.682	9.648	9.748	BB	131211	1497439	88.44%	4.959%
8	11.120	11.074	11.191	BB	128815	1516982	89.59%	5.024%
9	11.425	11.388	11.491	BB	155292	1693195	100.00%	5.608%
10	12.424	12.388	12.488	BB	120109	1453910	85.87%	4.815%
11	12.865	12.824	12.928	BB	105028	1244032	73.47%	4.120%
12	13.035	12.998	13.101	BB	115485	1431349	84.54%	4.740%
13	13.620	13.584	13.691	BB	115583	1411126	83.34%	4.673%
14	14.719	14.651	14.788	BB	106542	1400111	82.69%	4.637%
15	15.737	15.698	15.804	BB	100036	1370317	80.93%	4.538%
16	16.685	16.608	16.751	BB	102147	1362142	80.45%	4.511%
17	17.570	17.501	17.634	BB	100184	1402454	82.83%	4.645%
18	18.401	18.354	18.464	BB	97240	1354078	79.97%	4.484%
19	19.183	19.121	19.251	BB	79568	1175638	69.43%	3.893%
20	19.921	19.871	19.988	BB	69262	1013341	59.85%	3.356%
21	20.635	20.581	20.694	BB	53776	924019	54.57%	3.060%
22	21.497	21.431	21.574	BB	37309	872323	51.52%	2.889%

Sum of corrected areas: 30194970

Aliphatic EPH 012425.M Sat Jan 25 04:56:01 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 25 04:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.425	791222	4.897 ug/ml
Spiked Amount	50.000		Recovery =	9.79%
12) S	1-chlorooctadecane (S...	12.866	575543	4.817 ug/ml
Spiked Amount	50.000		Recovery =	9.63%
	Target Compounds			
1) T	n-Nonane (C9)	3.233	694002	4.939 ug/ml
2) T	n-Decane (C10)	4.291	696954	4.870 ug/ml
3) T	A~Naphthalene (C11.7)	5.860	735461	4.730 ug/ml
4) T	n-Dodecane (C12)	6.298	701967	4.861 ug/ml
5) T	A~2-methylnaphthalene...	6.912	679817	4.540 ug/ml
6) T	n-Tetradecane (C14)	8.087	678873	4.800 ug/ml
7) T	n-Hexadecane (C16)	9.682	690786	4.790 ug/ml
8) T	n-Octadecane (C18)	11.119	701017	4.825 ug/ml
10) T	n-Eicosane (C20)	12.425	676915	4.878 ug/ml
11) T	n-Heneicosane (C21)	13.035	664598	4.882 ug/ml
13) T	n-Docosane (C22)	13.620	653737	4.895 ug/ml
14) T	n-Tetracosane (C24)	14.720	647347	4.875 ug/ml
15) T	n-Hexacosane (C26)	15.738	640168	4.920 ug/ml
16) T	n-Octacosane (C28)	16.685	660648	5.162 ug/ml
17) T	n-Tricontane (C30)	17.571	717917	5.456 ug/ml
18) T	n-Dotriacontane (C32)	18.400	712580	5.641 ug/ml
19) T	n-Tetratriacontane (C34)	19.183	604670	5.501 ug/ml
20) T	n-Hexatriacontane (C36)	19.922	497419	5.299 ug/ml
21) T	n-Octatriacontane (C38)	20.635	450417	5.130 ug/ml
22) T	n-Tetracontane (C40)	21.497	416329	5.088 ug/ml

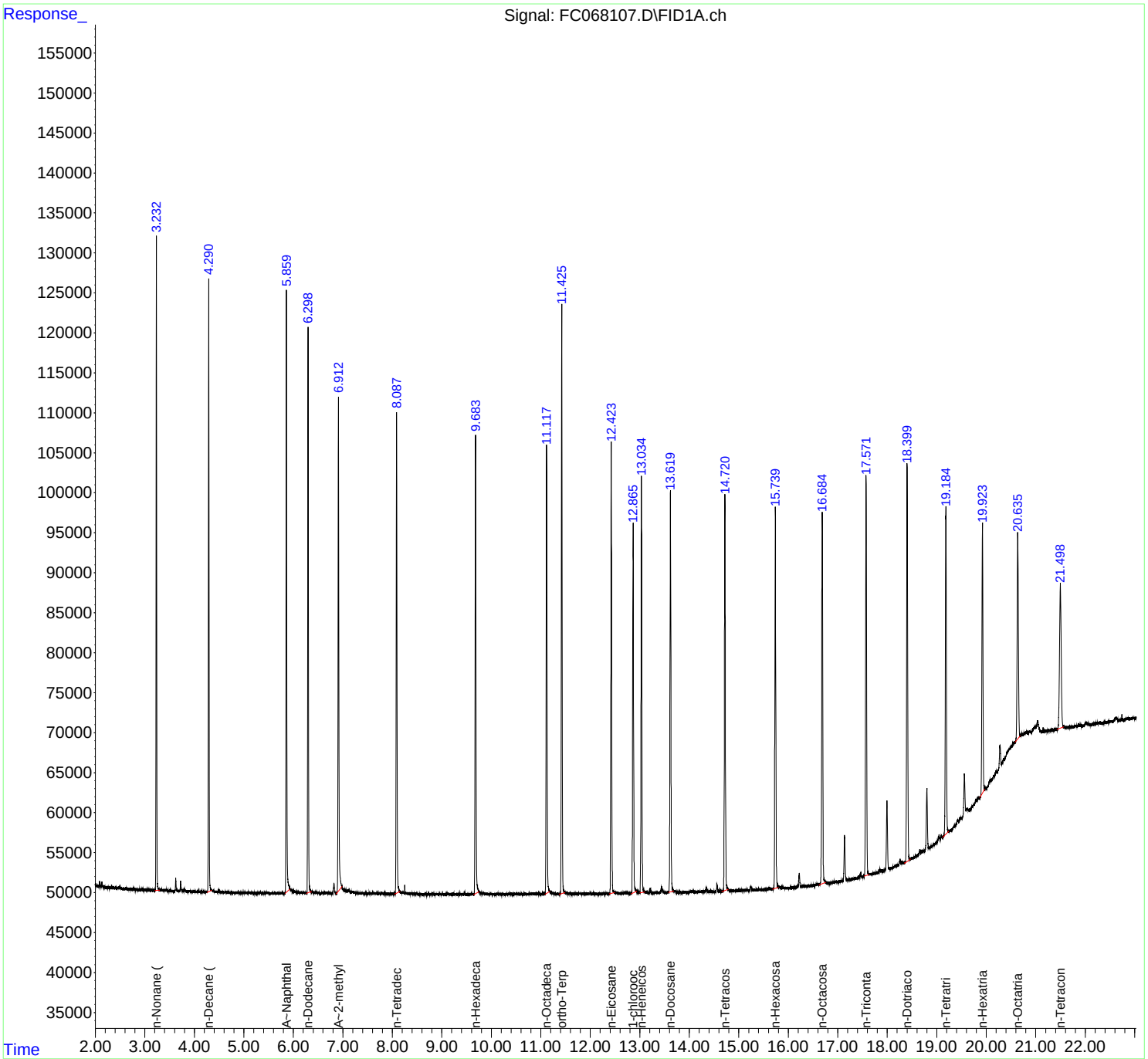
(f)=RT Delta > 1/2 Window (m)=manual int.

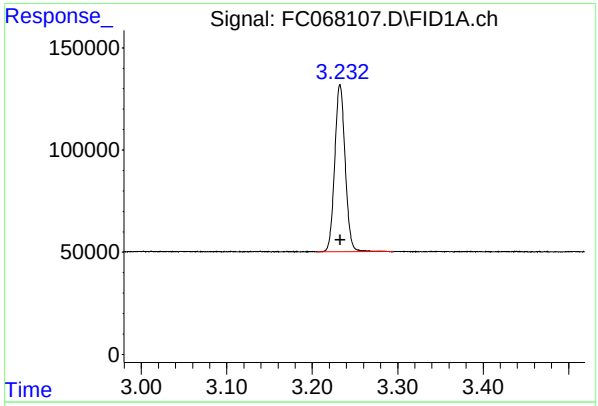
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 25 04:22:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:20:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

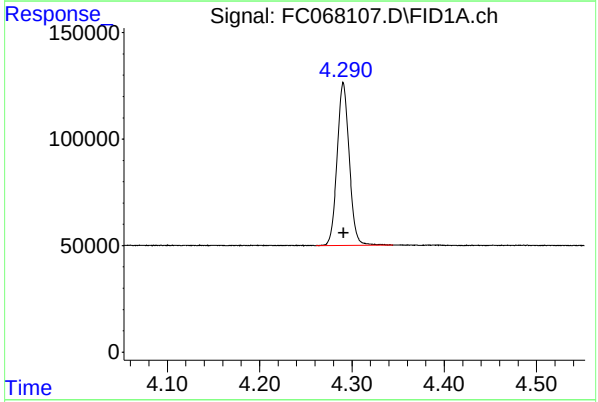




#1 n-Nonane (C9)

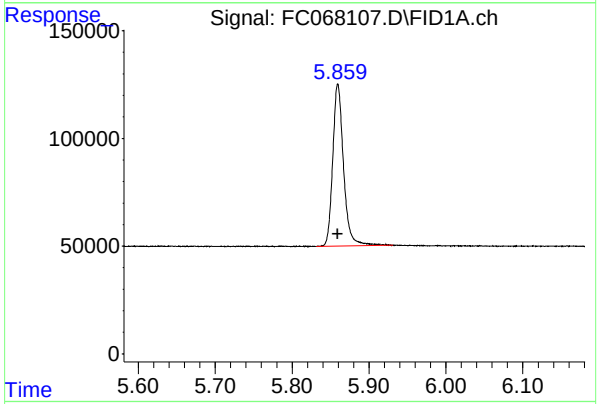
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 694002
Conc: 4.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



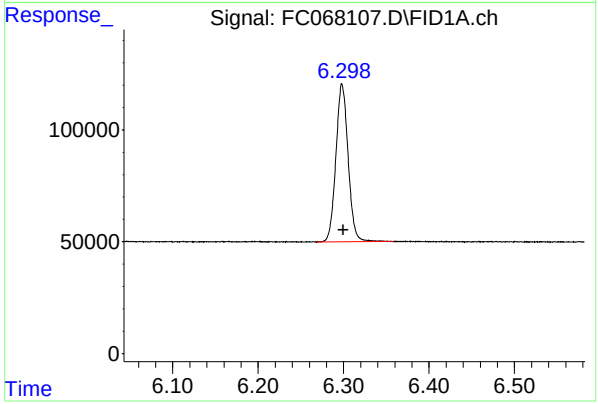
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: 0.000 min
Response: 696954
Conc: 4.87 ug/ml



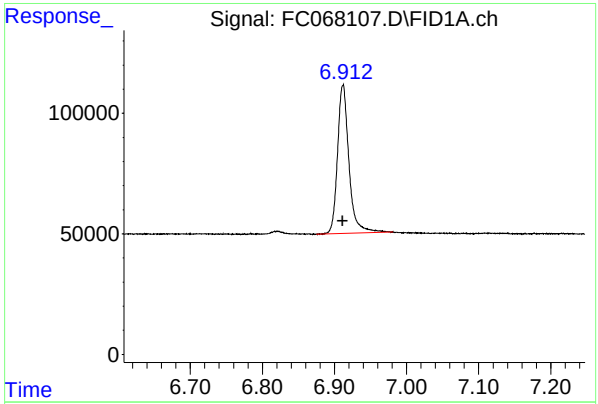
#3 A~Naphthalene (C11.7)

R.T.: 5.860 min
Delta R.T.: 0.000 min
Response: 735461
Conc: 4.73 ug/ml



#4 n-Dodecane (C12)

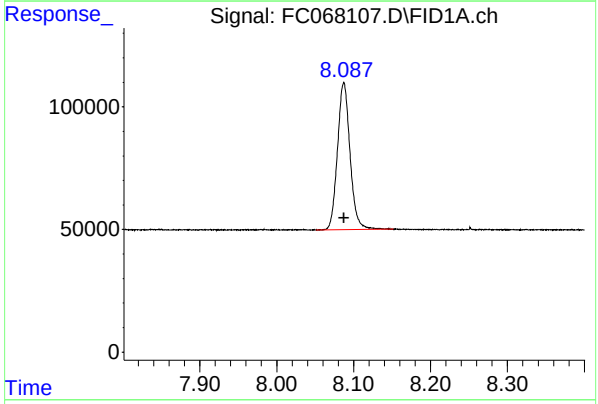
R.T.: 6.298 min
Delta R.T.: -0.001 min
Response: 701967
Conc: 4.86 ug/ml



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

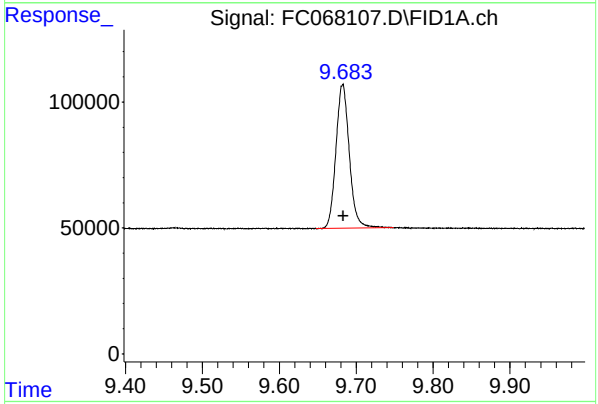
R.T.: 6.912 min
Delta R.T.: 0.000 min
Response: 679817
Conc: 4.54 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



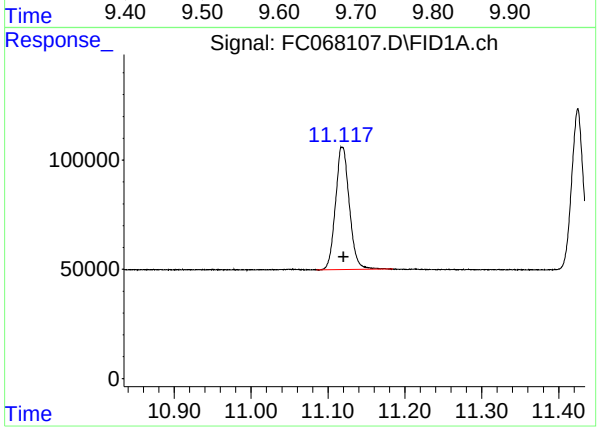
#6 n-Tetradecane (C14)

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 678873
Conc: 4.80 ug/ml



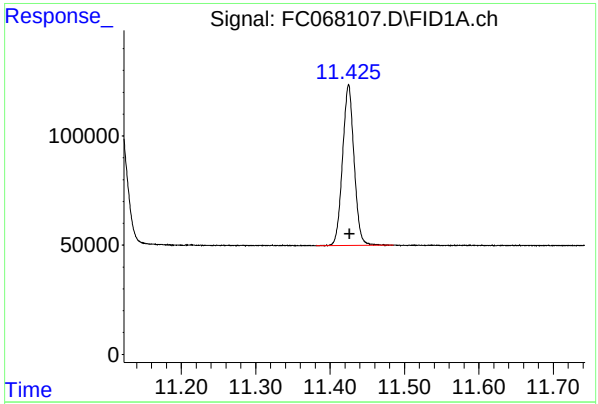
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: 0.000 min
Response: 690786
Conc: 4.79 ug/ml



#8 n-Octadecane (C18)

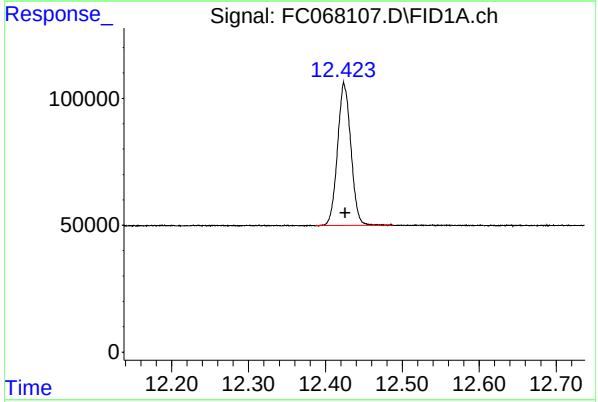
R.T.: 11.119 min
Delta R.T.: -0.002 min
Response: 701017
Conc: 4.83 ug/ml



#9 ortho-Terphenyl (SURR)

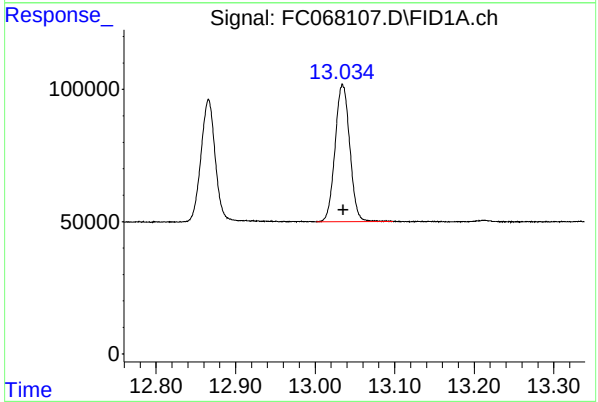
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 791222
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



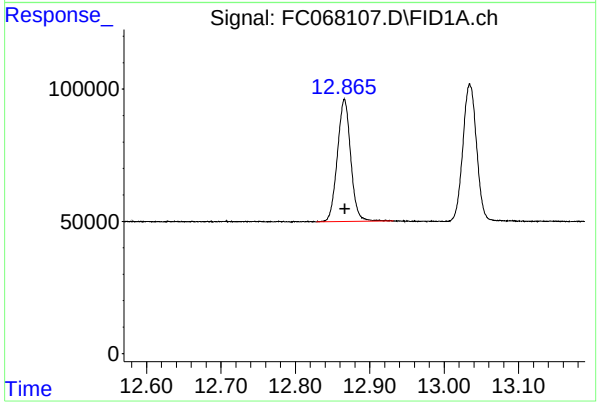
#10 n-Eicosane (C20)

R.T.: 12.425 min
Delta R.T.: 0.000 min
Response: 676915
Conc: 4.88 ug/ml



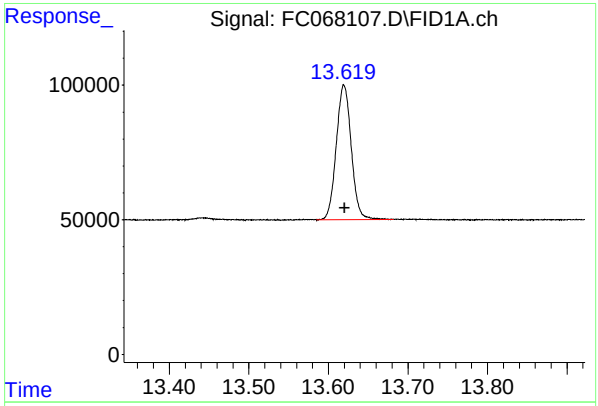
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: 0.000 min
Response: 664598
Conc: 4.88 ug/ml



#12 1-chlorooctadecane (SURR)

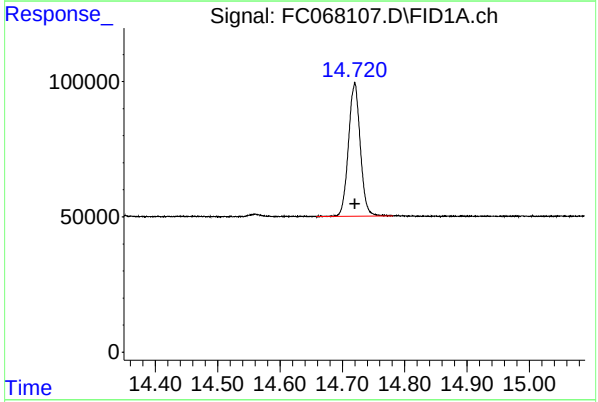
R.T.: 12.866 min
Delta R.T.: 0.000 min
Response: 575543
Conc: 4.82 ug/ml



#13 n-Docosane (C22)

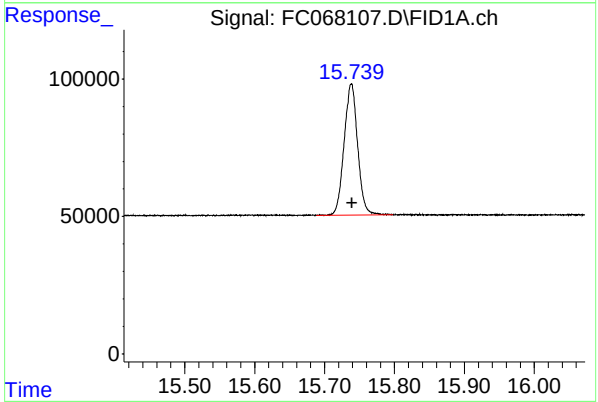
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 653737
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



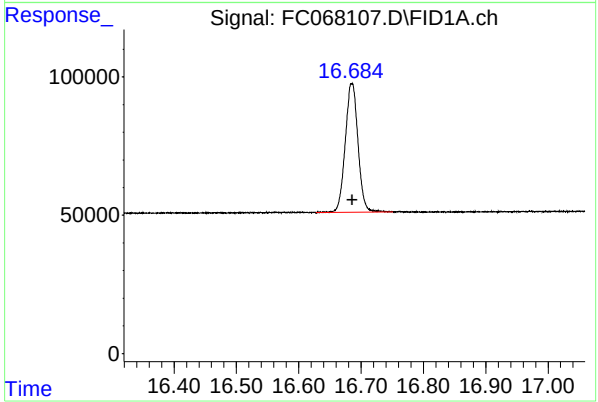
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: 0.000 min
Response: 647347
Conc: 4.87 ug/ml



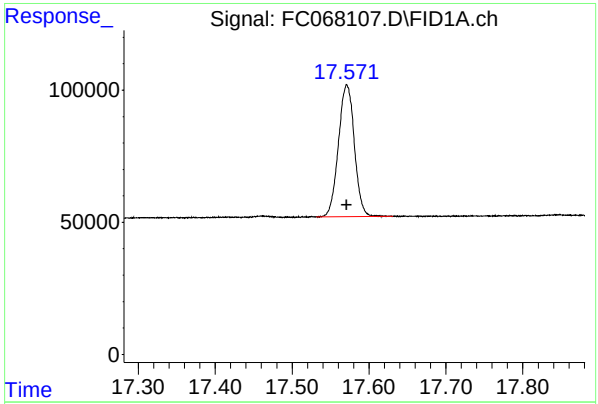
#15 n-Hexacosane (C26)

R.T.: 15.738 min
Delta R.T.: 0.000 min
Response: 640168
Conc: 4.92 ug/ml



#16 n-Octacosane (C28)

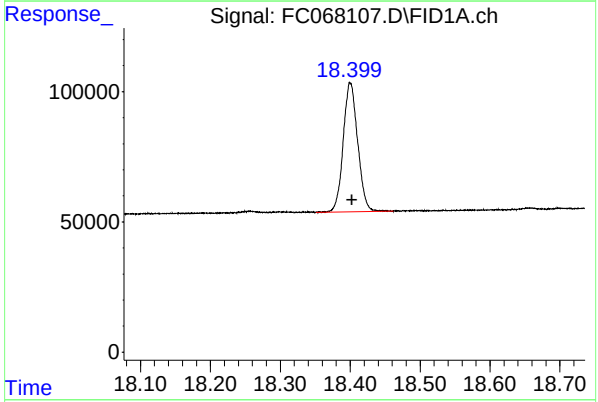
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 660648
Conc: 5.16 ug/ml



#17 n-Tricontane (C30)

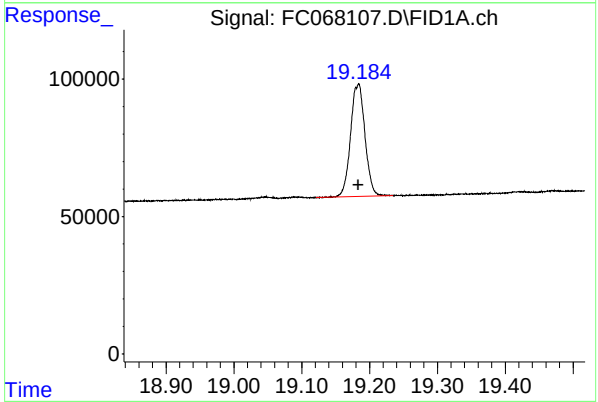
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 717917
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



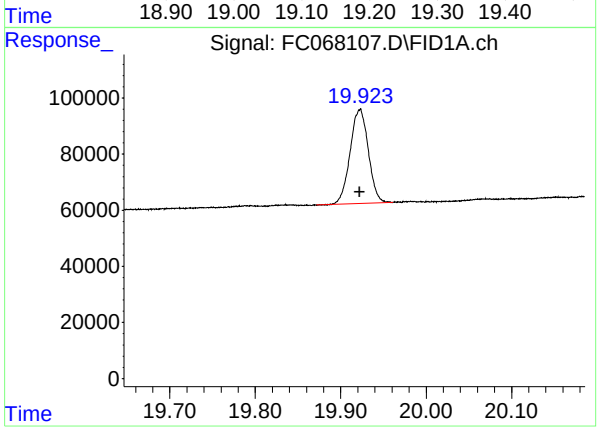
#18 n-Dotriacontane (C32)

R.T.: 18.400 min
Delta R.T.: -0.002 min
Response: 712580
Conc: 5.64 ug/ml



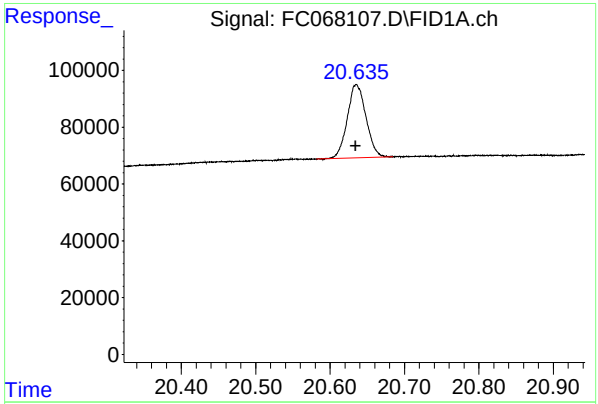
#19 n-Tetratriacontane (C34)

R.T.: 19.183 min
Delta R.T.: 0.000 min
Response: 604670
Conc: 5.50 ug/ml



#20 n-Hexatriacontane (C36)

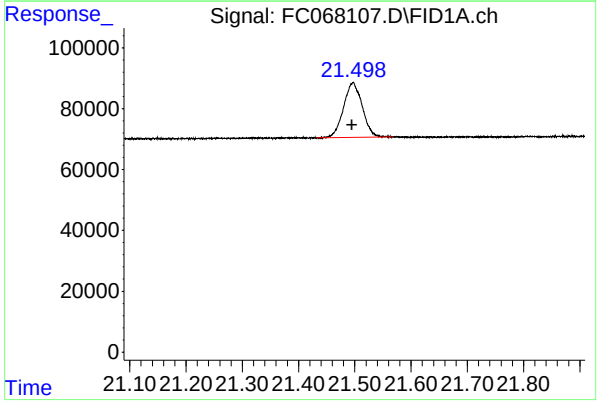
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 497419
Conc: 5.30 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.635 min
Delta R.T.: 0.001 min
Response: 450417
Conc: 5.13 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.497 min
Delta R.T.: 0.002 min
Response: 416329
Conc: 5.09 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.205	3.295	BB	81211	694002	87.71%	4.857%
2	4.291	4.261	4.345	BB	76093	696954	88.09%	4.878%
3	5.860	5.831	5.931	BB	74115	735461	92.95%	5.147%
4	6.298	6.268	6.358	BB	70358	701967	88.72%	4.913%
5	6.912	6.875	6.981	BB	61540	679817	85.92%	4.758%
6	8.087	8.051	8.151	BB	59884	678873	85.80%	4.751%
7	9.682	9.648	9.748	BB	57178	690786	87.31%	4.835%
8	11.119	11.085	11.185	BB	56462	701017	88.60%	4.906%
9	11.425	11.381	11.485	BB	73366	791222	100.00%	5.538%
10	12.425	12.388	12.488	BB	55734	676915	85.55%	4.738%
11	12.866	12.828	12.931	BB	45879	575543	72.74%	4.028%
12	13.035	13.001	13.098	BB	51716	664598	84.00%	4.651%
13	13.620	13.585	13.681	BB	49760	653737	82.62%	4.575%
14	14.720	14.658	14.781	BB	49743	647347	81.82%	4.531%
15	15.738	15.688	15.798	BB	47829	640168	80.91%	4.480%
16	16.685	16.628	16.751	BB	46740	660648	83.50%	4.624%
17	17.571	17.531	17.631	BB	49806	717917	90.74%	5.024%
18	18.400	18.351	18.461	BB	49533	712580	90.06%	4.987%
19	19.183	19.121	19.235	BB	41551	604670	76.42%	4.232%
20	19.922	19.871	19.961	BB	33283	497419	62.87%	3.481%
21	20.635	20.581	20.685	BB	25685	450417	56.93%	3.152%
22	21.497	21.431	21.568	BB	18210	416329	52.62%	2.914%
			Sum of corrected areas:			14288387		

Aliphatic EPH 012425.M Sat Jan 25 04:56:17 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 04:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.426	3210149	20.543 ug/ml
Spiked Amount	50.000		Recovery =	41.09%
12) S	1-chlorooctadecane (S...	12.866	2353417	20.464 ug/ml
Spiked Amount	50.000		Recovery =	40.93%
	Target Compounds			
1) T	n-Nonane (C9)	3.233	2856850	20.863 ug/ml
2) T	n-Decane (C10)	4.291	2892910	20.837 ug/ml
3) T	A~Naphthalene (C11.7)	5.859	3146417	20.959 ug/ml
4) T	n-Dodecane (C12)	6.299	2898986	20.752 ug/ml
5) T	A~2-methylnaphthalene...	6.912	3016045	20.998 ug/ml
6) T	n-Tetradecane (C14)	8.088	2823344	20.687 ug/ml
7) T	n-Hexadecane (C16)	9.682	2866683	20.631 ug/ml
8) T	n-Octadecane (C18)	11.120	2860062	20.441 ug/ml
10) T	n-Eicosane (C20)	12.425	2726294	20.376 ug/ml
11) T	n-Heneicosane (C21)	13.035	2669582	20.326 ug/ml
13) T	n-Docosane (C22)	13.621	2632473	20.323 ug/ml
14) T	n-Tetracosane (C24)	14.720	2607107	20.307 ug/ml
15) T	n-Hexacosane (C26)	15.738	2544255	20.219 ug/ml
16) T	n-Octacosane (C28)	16.686	2514179	20.102 ug/ml
17) T	n-Tricontane (C30)	17.572	2583068	19.984 ug/ml
18) T	n-Dotriacontane (C32)	18.402	2485515	19.882 ug/ml
19) T	n-Tetratriacontane (C34)	19.184	2168265	19.989 ug/ml
20) T	n-Hexatriacontane (C36)	19.922	1856990	20.066 ug/ml
21) T	n-Octatriacontane (C38)	20.634	1734577	20.243 ug/ml
22) T	n-Tetracontane (C40)	21.496	1670521	20.660 ug/ml

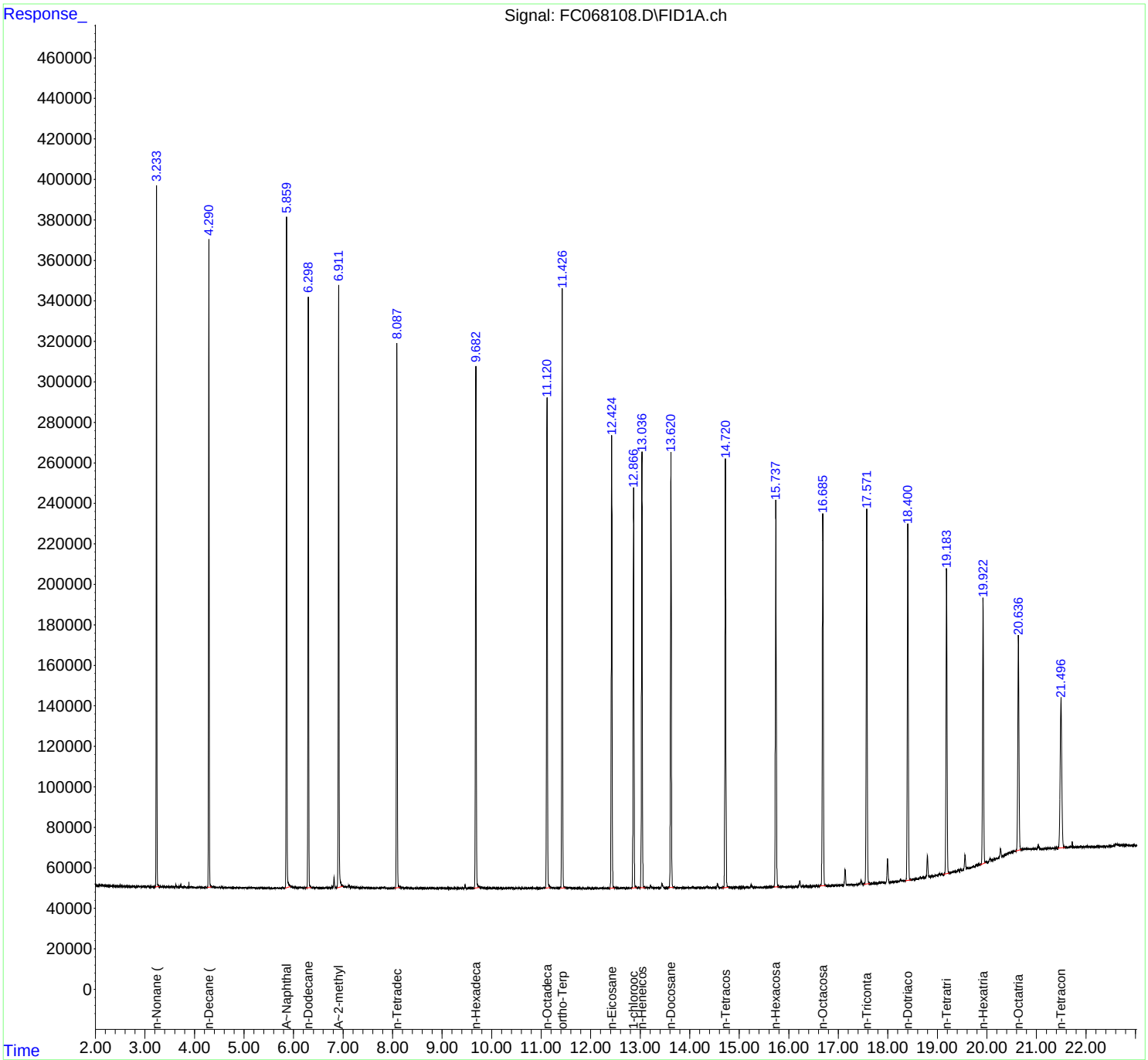
(f)=RT Delta > 1/2 Window (m)=manual int.

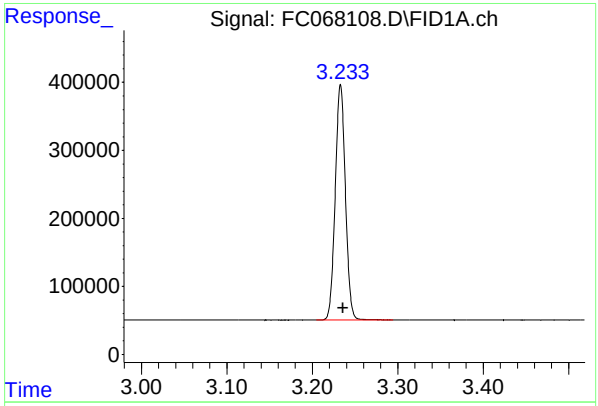
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 04:32:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

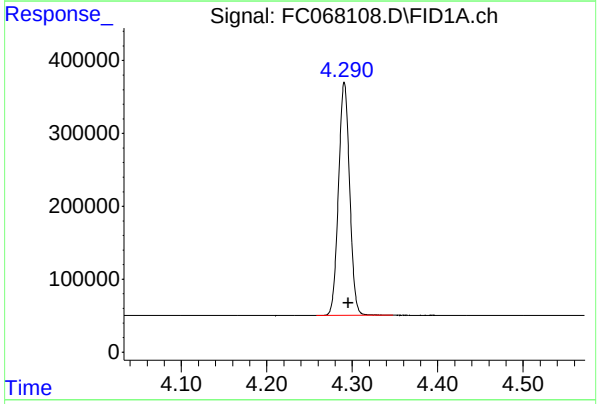




#1 n-Nonane (C9)

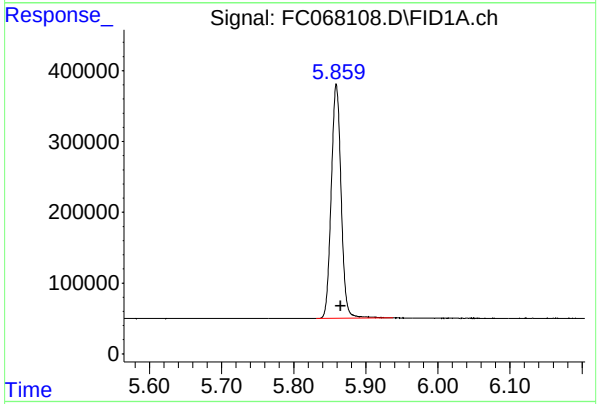
R.T.: 3.233 min
Delta R.T.: -0.003 min
Response: 2856850
Conc: 20.86 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



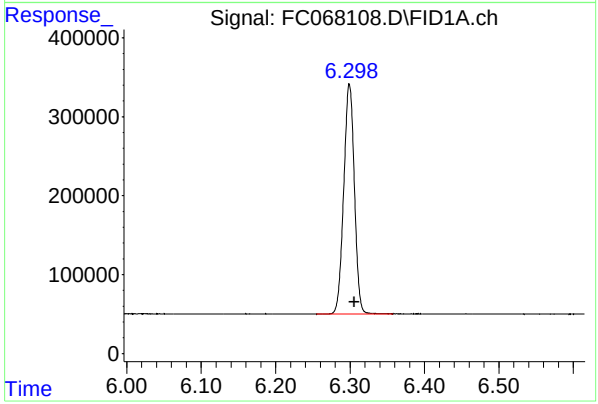
#2 n-Decane (C10)

R.T.: 4.291 min
Delta R.T.: -0.005 min
Response: 2892910
Conc: 20.84 ug/ml



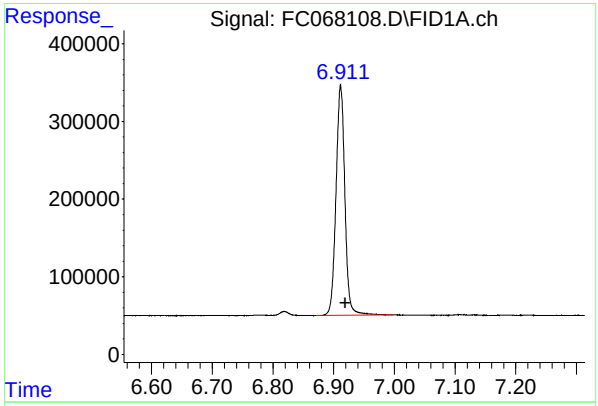
#3 A~Naphthalene (C11.7)

R.T.: 5.859 min
Delta R.T.: -0.006 min
Response: 3146417
Conc: 20.96 ug/ml



#4 n-Dodecane (C12)

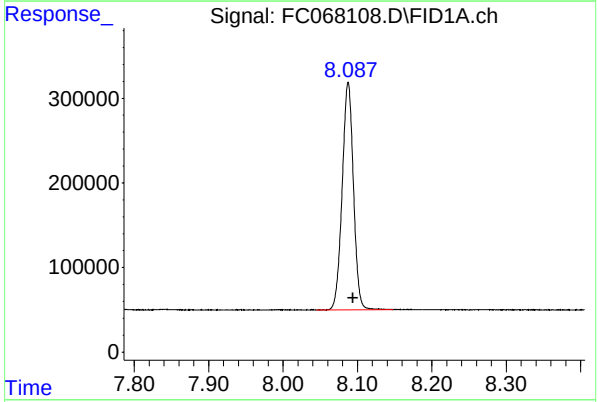
R.T.: 6.299 min
Delta R.T.: -0.006 min
Response: 2898986
Conc: 20.75 ug/ml



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

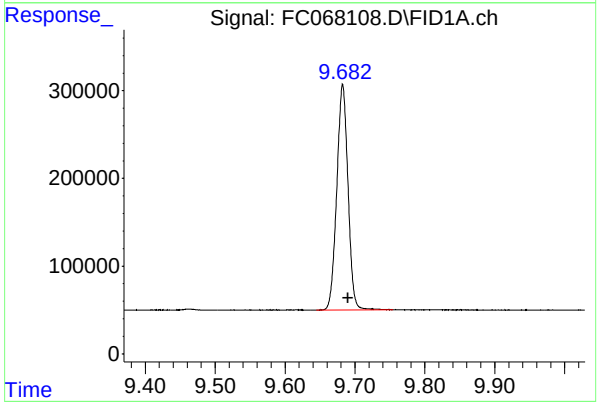
R.T.: 6.912 min
Delta R.T.: -0.008 min
Response: 3016045
Conc: 21.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



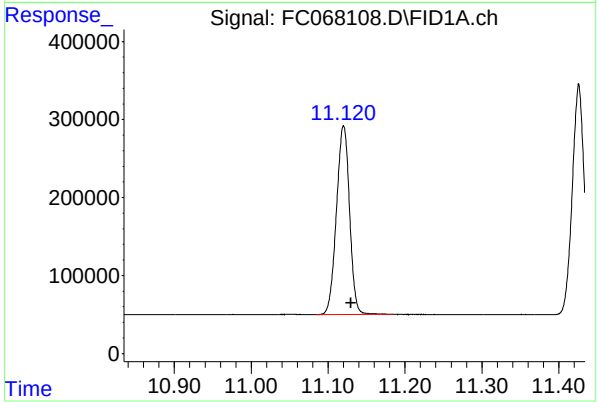
#6 n-Tetradecane (C14)

R.T.: 8.088 min
Delta R.T.: -0.006 min
Response: 2823344
Conc: 20.69 ug/ml



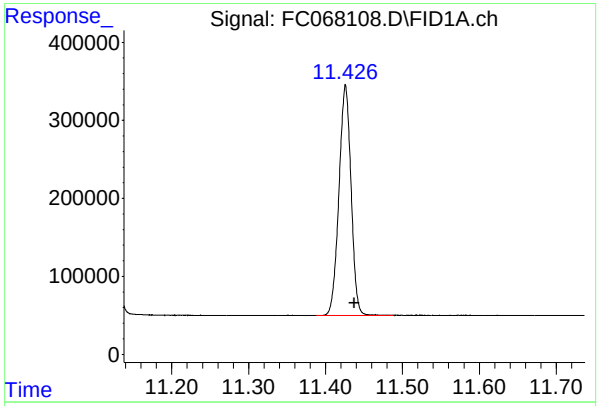
#7 n-Hexadecane (C16)

R.T.: 9.682 min
Delta R.T.: -0.008 min
Response: 2866683
Conc: 20.63 ug/ml



#8 n-Octadecane (C18)

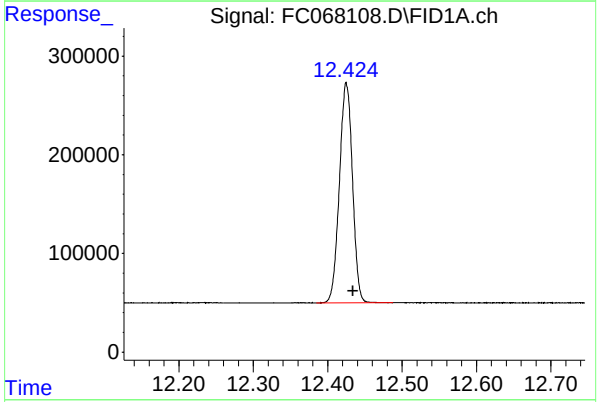
R.T.: 11.120 min
Delta R.T.: -0.009 min
Response: 2860062
Conc: 20.44 ug/ml



#9 ortho-Terphenyl (SURR)

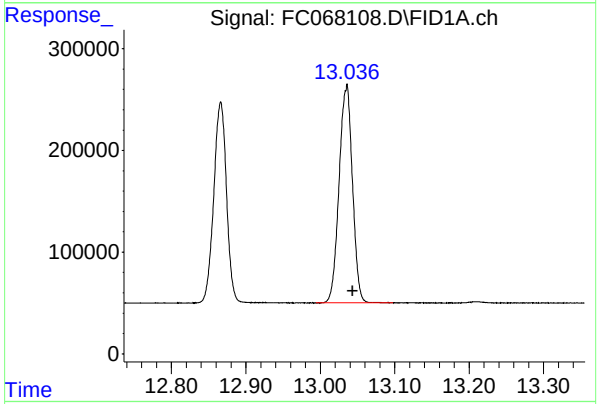
R.T.: 11.426 min
Delta R.T.: -0.011 min
Response: 3210149
Conc: 20.54 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



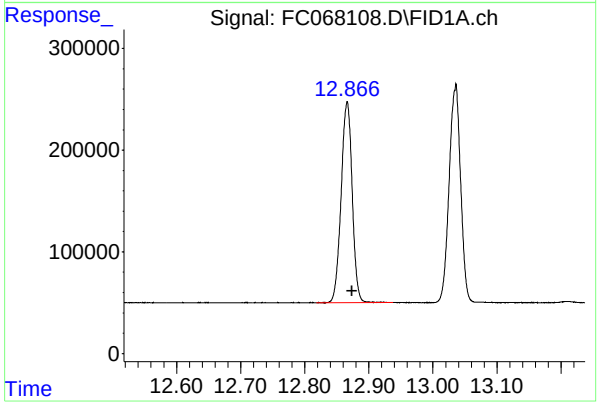
#10 n-Eicosane (C20)

R.T.: 12.425 min
Delta R.T.: -0.009 min
Response: 2726294
Conc: 20.38 ug/ml



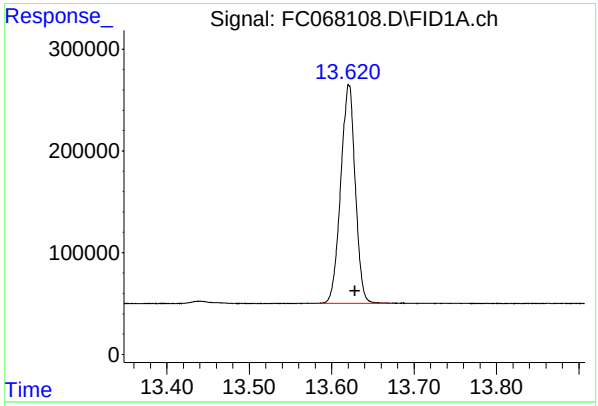
#11 n-Heneicosane (C21)

R.T.: 13.035 min
Delta R.T.: -0.009 min
Response: 2669582
Conc: 20.33 ug/ml



#12 1-chlorooctadecane (SURR)

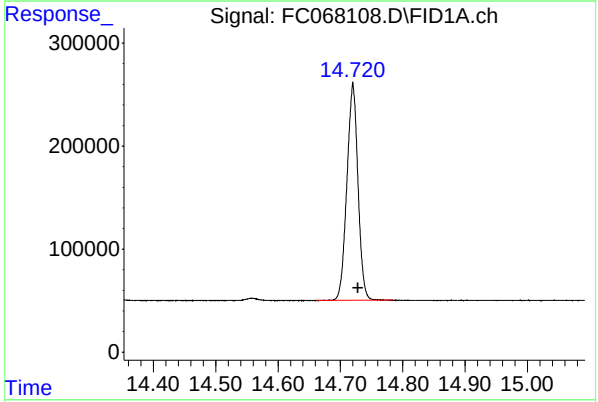
R.T.: 12.866 min
Delta R.T.: -0.008 min
Response: 2353417
Conc: 20.46 ug/ml



#13 n-Docosane (C22)

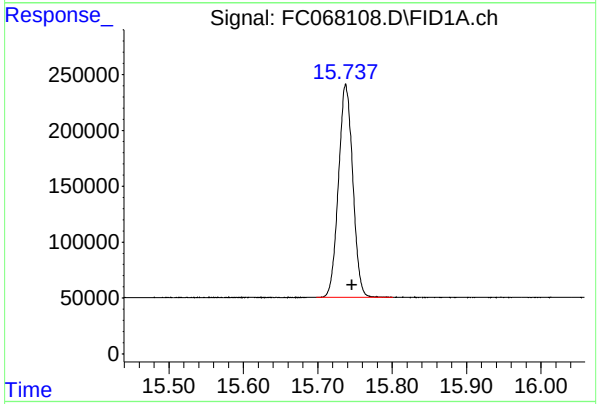
R.T.: 13.621 min
Delta R.T.: -0.008 min
Response: 2632473
Conc: 20.32 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



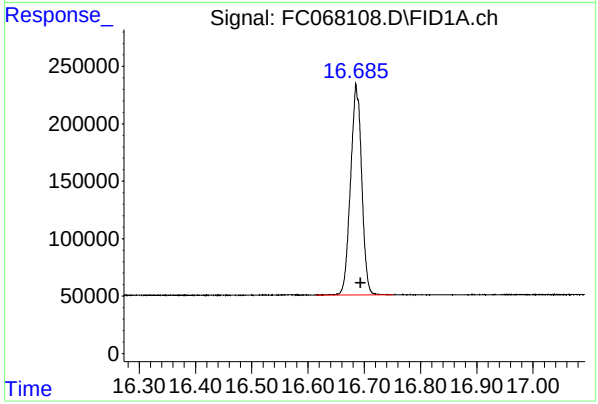
#14 n-Tetracosane (C24)

R.T.: 14.720 min
Delta R.T.: -0.008 min
Response: 2607107
Conc: 20.31 ug/ml



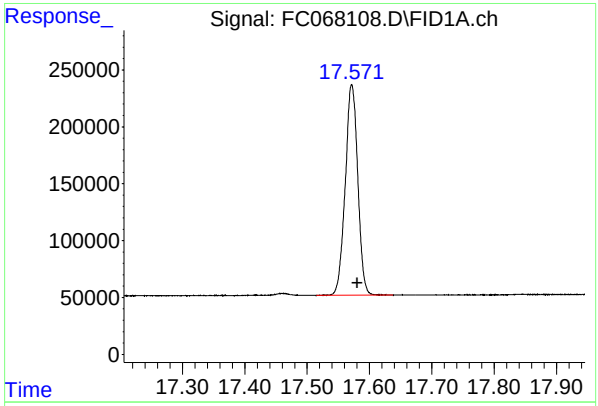
#15 n-Hexacosane (C26)

R.T.: 15.738 min
Delta R.T.: -0.008 min
Response: 2544255
Conc: 20.22 ug/ml



#16 n-Octacosane (C28)

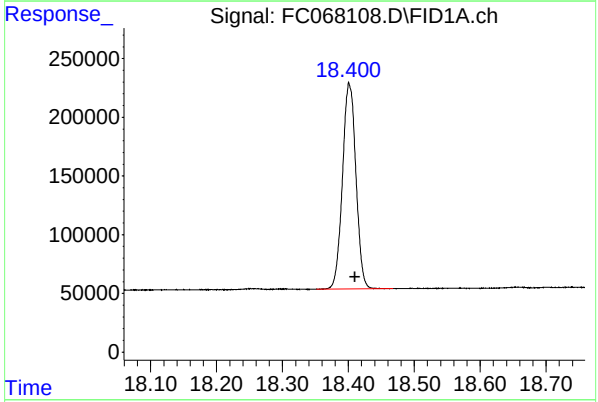
R.T.: 16.686 min
Delta R.T.: -0.007 min
Response: 2514179
Conc: 20.10 ug/ml



#17 n-Tricontane (C30)

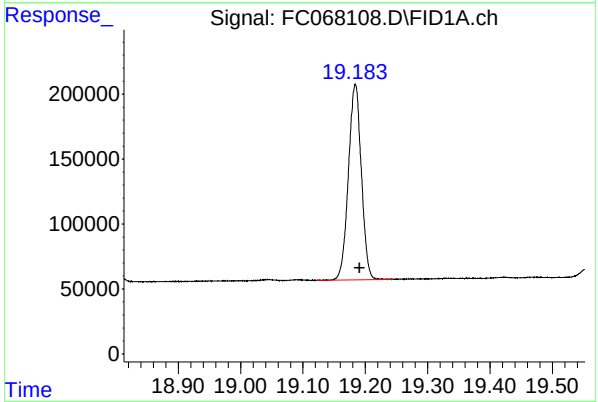
R.T.: 17.572 min
Delta R.T.: -0.009 min
Response: 2583068
Conc: 19.98 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



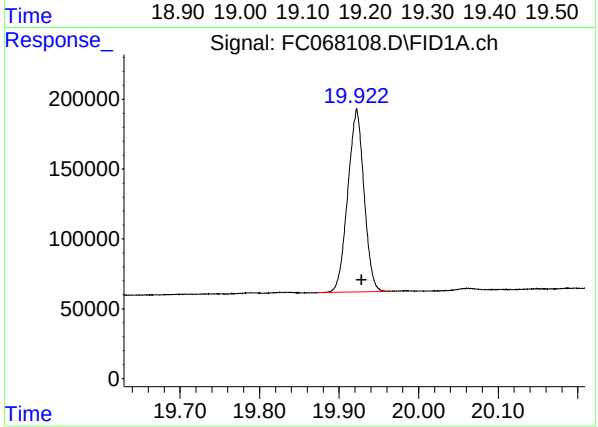
#18 n-Dotriacontane (C32)

R.T.: 18.402 min
Delta R.T.: -0.009 min
Response: 2485515
Conc: 19.88 ug/ml



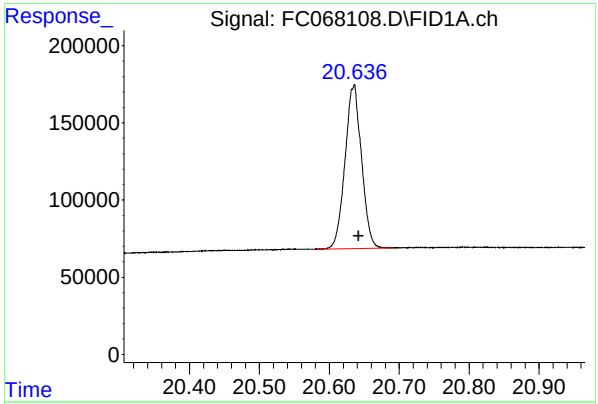
#19 n-Tetratriacontane (C34)

R.T.: 19.184 min
Delta R.T.: -0.007 min
Response: 2168265
Conc: 19.99 ug/ml



#20 n-Hexatriacontane (C36)

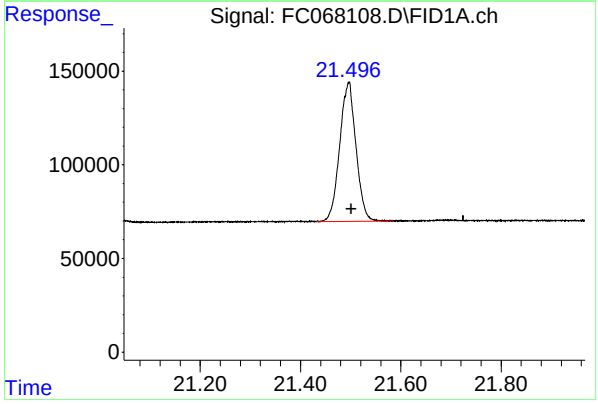
R.T.: 19.922 min
Delta R.T.: -0.006 min
Response: 1856990
Conc: 20.07 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.634 min
Delta R.T.: -0.008 min
Response: 1734577
Conc: 20.24 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.496 min
Delta R.T.: -0.005 min
Response: 1670521
Conc: 20.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.233	3.204	3.294	BB	343704	2856850	88.99%	5.002%
2	4.291	4.258	4.348	BB	319572	2892910	90.12%	5.065%
3	5.859	5.831	5.938	BB	328241	3146417	98.01%	5.509%
4	6.299	6.254	6.358	BB	290866	2898986	90.31%	5.075%
5	6.912	6.871	6.998	BB	295864	3016045	93.95%	5.280%
6	8.088	8.044	8.148	BB	268893	2823344	87.95%	4.943%
7	9.682	9.644	9.754	BB	254778	2866683	89.30%	5.019%
8	11.120	11.084	11.184	BB	242579	2860062	89.09%	5.007%
9	11.426	11.388	11.488	BB	290771	3210149	100.00%	5.620%
10	12.425	12.384	12.488	BB	223122	2726294	84.93%	4.773%
11	12.866	12.818	12.938	BB	197552	2353417	73.31%	4.120%
12	13.035	12.994	13.098	BB	211315	2669582	83.16%	4.674%
13	13.621	13.581	13.674	BB	216625	2632473	82.00%	4.609%
14	14.720	14.661	14.784	BB	209276	2607107	81.21%	4.564%
15	15.738	15.698	15.801	BB	189595	2544255	79.26%	4.454%
16	16.686	16.614	16.751	BB	174808	2514179	78.32%	4.402%
17	17.572	17.514	17.638	BB	185211	2583068	80.47%	4.522%
18	18.402	18.351	18.468	BB	175194	2485515	77.43%	4.352%
19	19.184	19.121	19.244	BB	150939	2168265	67.54%	3.796%
20	19.922	19.871	19.968	BB	128729	1856990	57.85%	3.251%
21	20.634	20.581	20.691	BB	104780	1734577	54.03%	3.037%
22	21.496	21.431	21.584	BB	73905	1670521	52.04%	2.925%
			Sum of corrected areas:			57117687		

Aliphatic EPH 012425.M Sat Jan 25 04:56:39 2025

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

Inital Calibration Report for SequenceID : FD012425AR

AreaCount

Parameter Range	FD048945.D	FD048946.D	FD048947.D	FD048948.D	FD048949.D	
Aromatic C10-C12	30613634.000	15394701.000	6122051.000	3223218.000	1549258.000	
Aromatic C12-C16	46428964.000	23585820.000	9503278.000	5073670.000	2573200.000	
Aromatic C16-C21	61020495.000	30945609.000	12177178.000	6382159.000	3083864.000	
Aromatic C21-C36	126755619.000	64546927.000	25163411.000	13252912.000	6353375.000	
Aromatic EPH	264818712.000	134473057.000	52965918.000	27931959.000	13559697.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	155230.631	2.193				
Aromatic C12-C16	162211.7959996	4.672				
Aromatic C16-C21	154648.2365	1.902				
Aromatic C21-C36	142502.9217772	2.084				
Aromatic EPH	149900.8828886	2.214				

Concentration

Parameter Range	FD048945.D	FD048946.D	FD048947.D	FD048948.D	FD048949.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	FD048945.D	FD048946.D	FD048947.D	FD048948.D	FD048949.D	
Aromatic C10-C12	153068.170000	153947.010000	153051.275000	161160.900000	154925.800000	
Aromatic C12-C16	154763.213333	157238.800000	158387.966666	169122.333333	171546.666666	
Aromatic C16-C21	152551.237500	154728.045000	152214.725000	159553.975000	154193.200000	
Aromatic C21-C36	140839.576666	143437.615555	139796.727777	147254.577777	141186.111111	
Aromatic EPH	147121.506666	149414.507777	147127.550000	155177.550000	150663.300000	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048945.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 03:30:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.361	13922522	99.159 ug/ml
Spiked Amount	50.000		Recovery =	198.32%
6) S	2-Flurobiphenyl (SURR)	8.212	9285844	106.723 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	213.45%#
11) S	ortho-Terphenyl (SURR)	11.248	15536261	97.044 ug/ml
Spiked Amount	50.000		Recovery =	194.09%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.183	14992132	99.140 ug/ml
2) T	Naphthalene (C11.7)	5.701	15621502	100.862 ug/ml
3) T	2-Methylnaphthalene (...	6.749	15294014	99.536 ug/ml
5) T	Acenaphthylene (C15.06)	8.016	15709296	98.092 ug/ml
7) T	Acenaphthene (C15.5)	8.312	15425654	95.597 ug/ml
8) T	Flouorene (C16.55)	9.090	15561239	100.161 ug/ml
9) T	Phenanthrene (C19.36)	10.478	15143368	100.608 ug/ml
10) T	Anthracene (C19.43)	10.554	15070696	99.531 ug/ml
12) T	Fluoranthene (C21.85)	12.284	15255755	99.511 ug/ml
13) T	Pyrene (C20.8)	12.578	15245192	100.588 ug/ml
14) T	Benzo[a]anthracene (C...	14.448	14536834	108.005 ug/ml
15) T	Chrysene (C27.41)	14.493	14824620	93.785 ug/ml
16) T	benzo[b]fluoranthene ...	15.998	14473755	103.784 ug/ml
17) T	Bnezo[k]fluoranthene ...	15.998	14473755	94.453 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.376	13621709	100.096 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.744	12714636	128.017 ug/ml
20) T	Dibenz[a,h]anthracene...	17.781	13210762	91.042 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.999	13643793	98.165 ug/ml

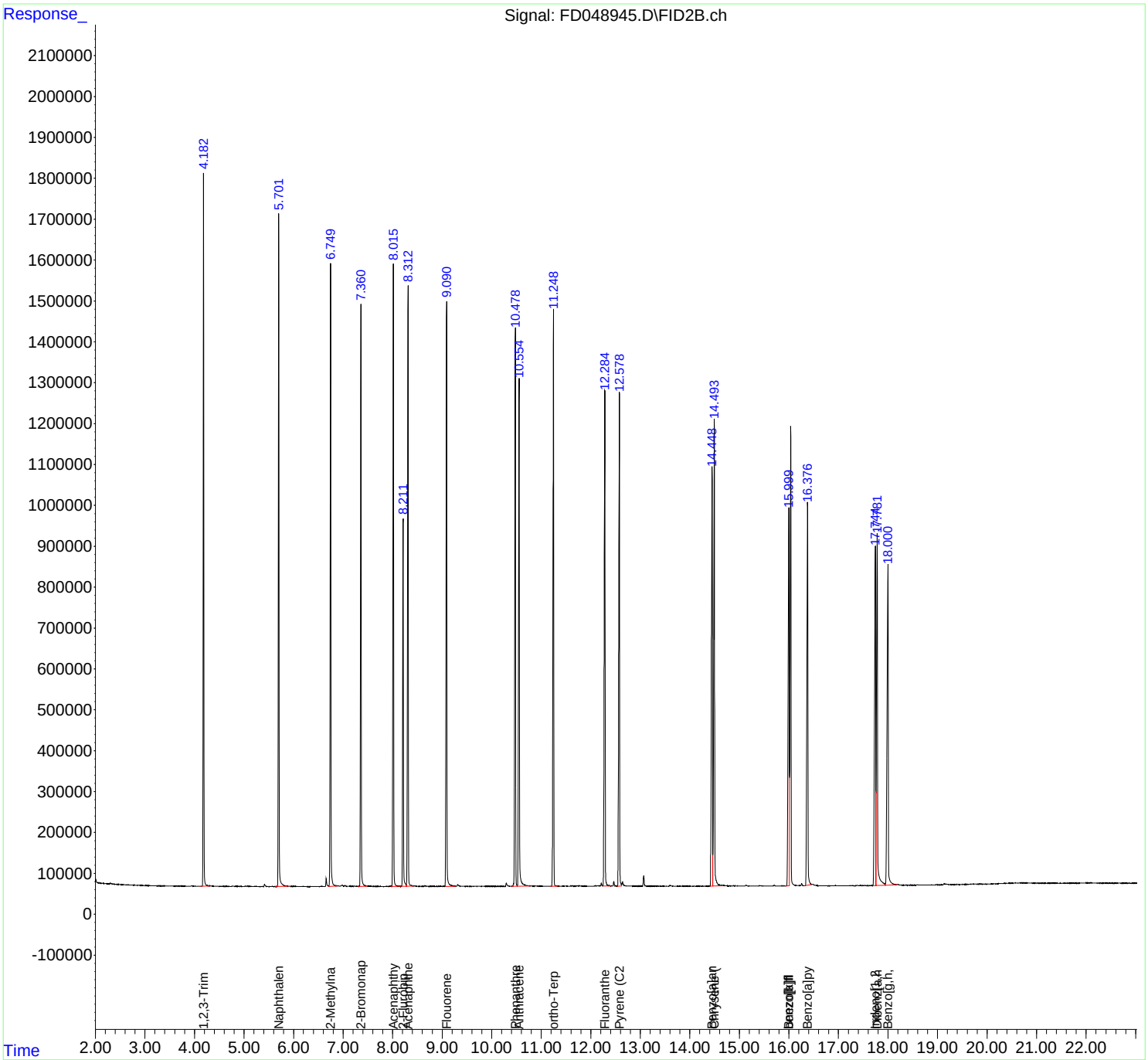
(f)=RT Delta > 1/2 Window (m)=manual int.

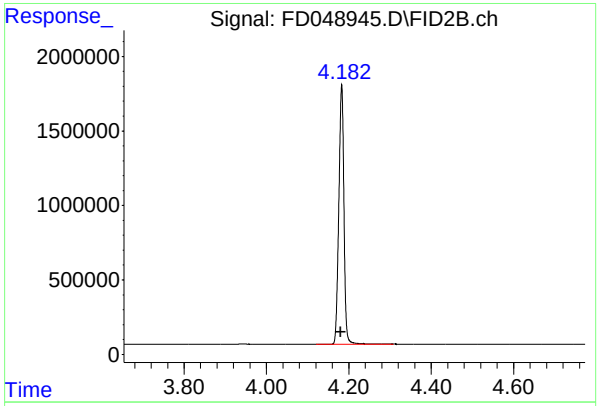
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048945.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 25 03:30:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

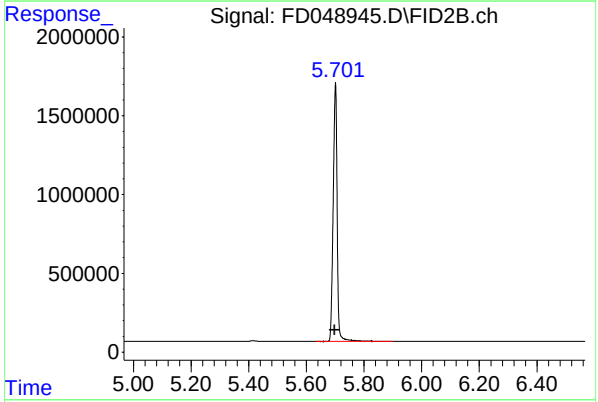




#1 1,2,3-Trimethylbenzene (C10.1)

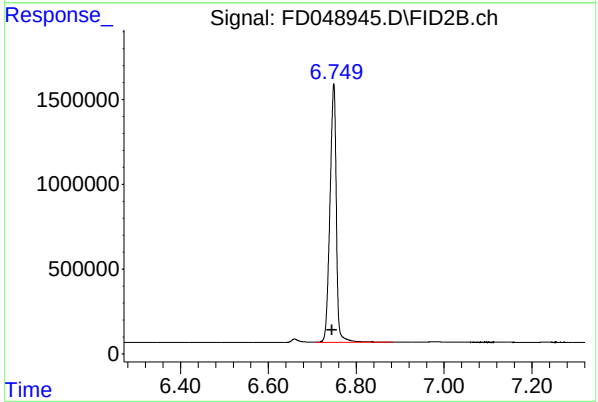
R.T.: 4.183 min
Delta R.T.: 0.003 min
Response: 14992132
Conc: 99.14 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



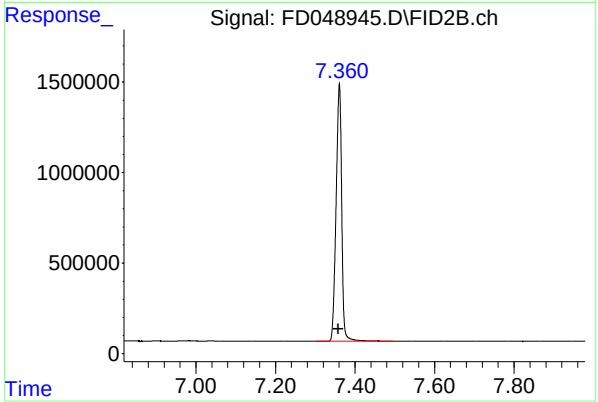
#2 Naphthalene (C11.7)

R.T.: 5.701 min
Delta R.T.: 0.003 min
Response: 15621502
Conc: 100.86 ug/ml



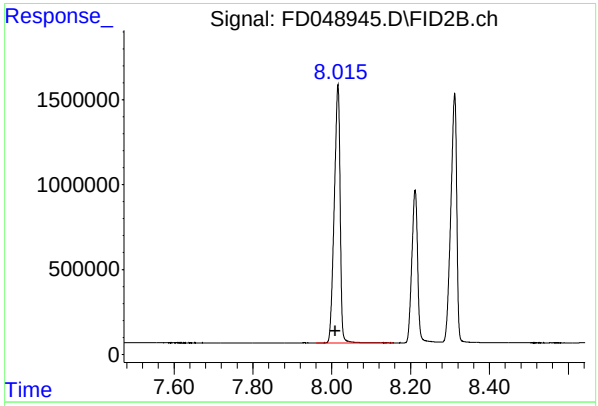
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.749 min
Delta R.T.: 0.004 min
Response: 15294014
Conc: 99.54 ug/ml



#4 2-Bromonaphthalene (SURR)

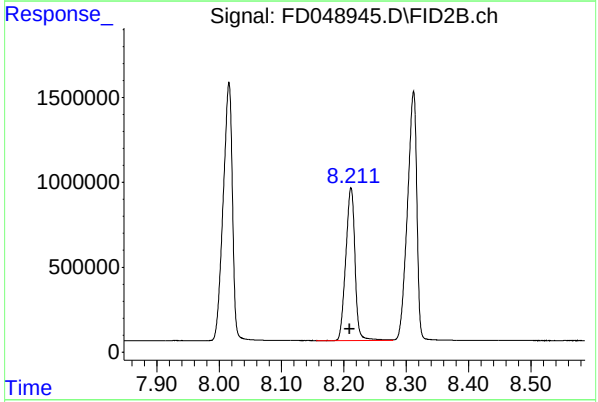
R.T.: 7.361 min
Delta R.T.: 0.003 min
Response: 13922522
Conc: 99.16 ug/ml



#5 Acenaphthylene (C15.06)

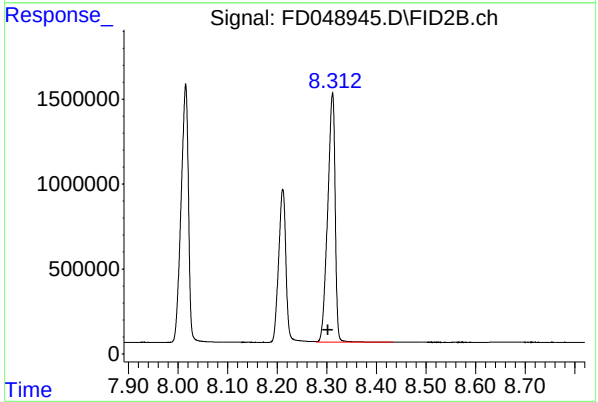
R.T.: 8.016 min
Delta R.T.: 0.006 min
Response: 15709296
Conc: 98.09 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



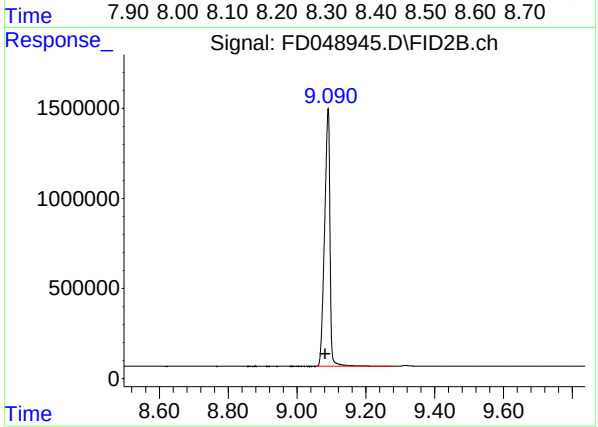
#6 2-Flurobiphenyl (SURR)

R.T.: 8.212 min
Delta R.T.: 0.002 min
Response: 9285844
Conc: 106.72 ug/ml



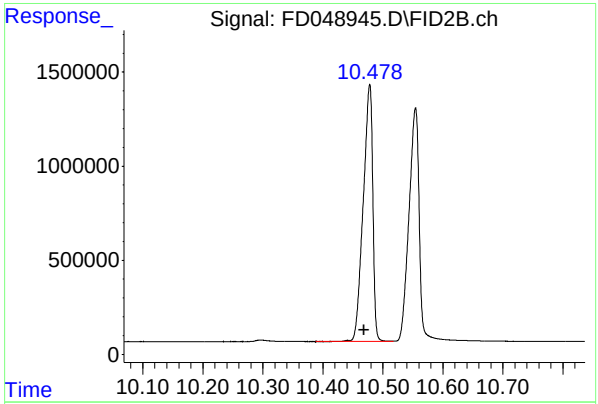
#7 Acenaphthene (C15.5)

R.T.: 8.312 min
Delta R.T.: 0.009 min
Response: 15425654
Conc: 95.60 ug/ml



#8 Flouorene (C16.55)

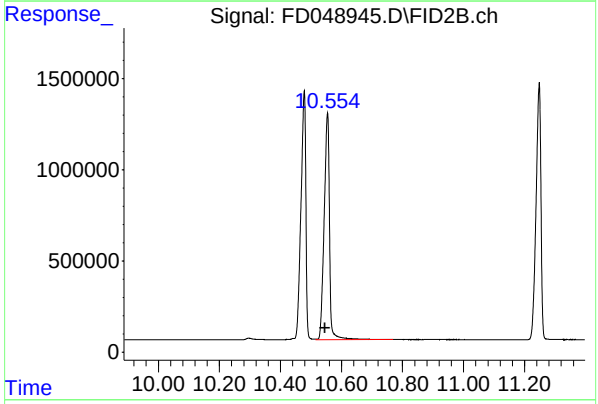
R.T.: 9.090 min
Delta R.T.: 0.008 min
Response: 15561239
Conc: 100.16 ug/ml



#9 Phenanthrene (C19.36)

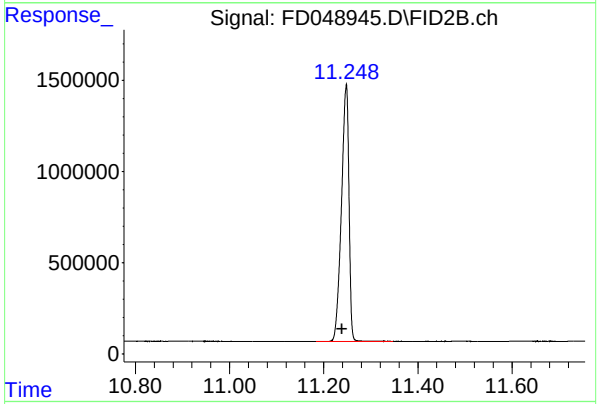
R.T.: 10.478 min
Delta R.T.: 0.009 min
Response: 15143368
Conc: 100.61 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



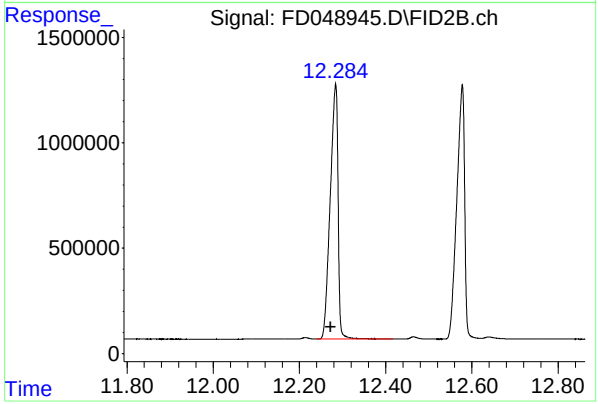
#10 Anthracene (C19.43)

R.T.: 10.554 min
Delta R.T.: 0.008 min
Response: 15070696
Conc: 99.53 ug/ml



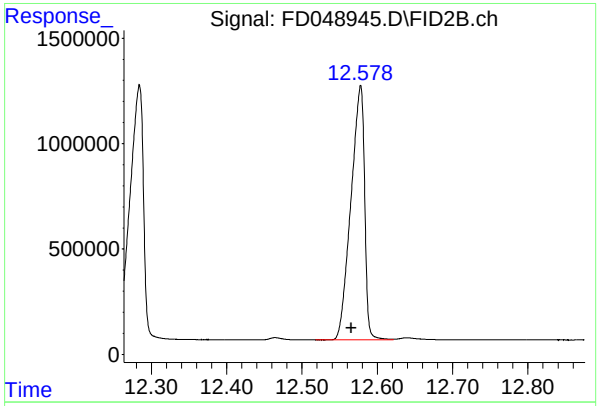
#11 ortho-Terphenyl (SURR)

R.T.: 11.248 min
Delta R.T.: 0.009 min
Response: 15536261
Conc: 97.04 ug/ml



#12 Fluoranthene (C21.85)

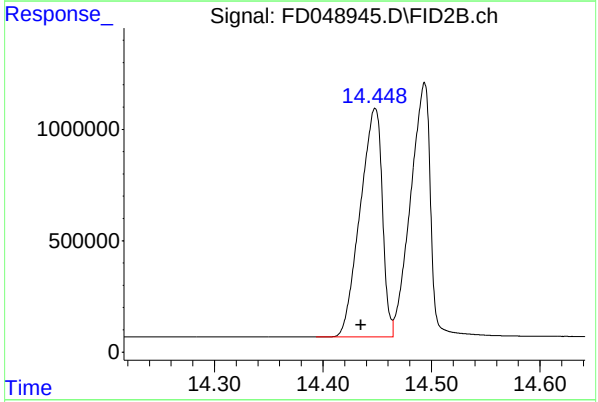
R.T.: 12.284 min
Delta R.T.: 0.011 min
Response: 15255755
Conc: 99.51 ug/ml



#13 Pyrene (C20.8)

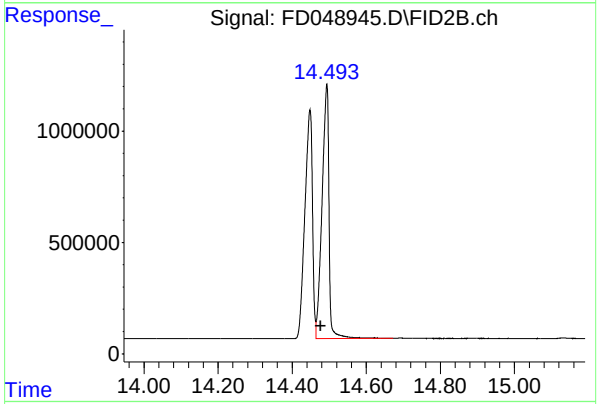
R.T.: 12.578 min
Delta R.T.: 0.012 min
Response: 15245192
Conc: 100.59 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



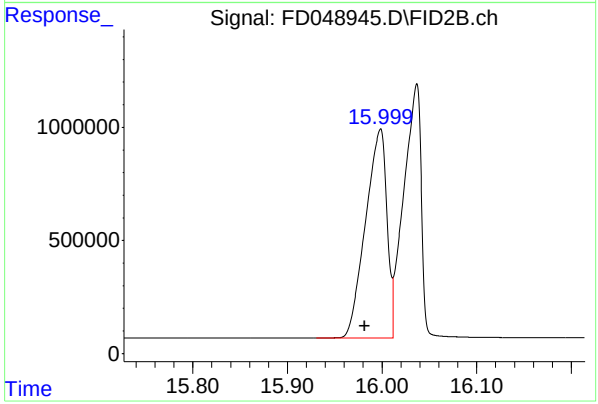
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.448 min
Delta R.T.: 0.013 min
Response: 14536834
Conc: 108.00 ug/ml



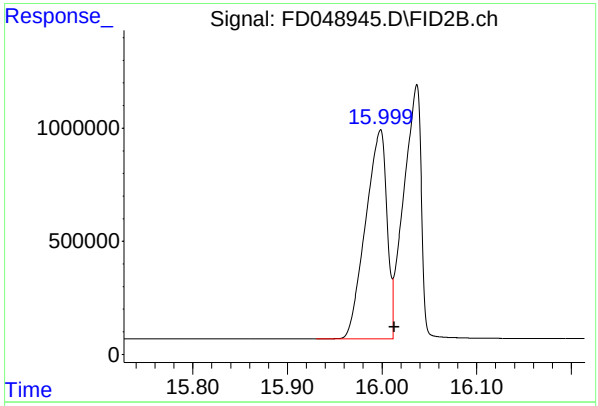
#15 Chrysene (C27.41)

R.T.: 14.493 min
Delta R.T.: 0.017 min
Response: 14824620
Conc: 93.78 ug/ml



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

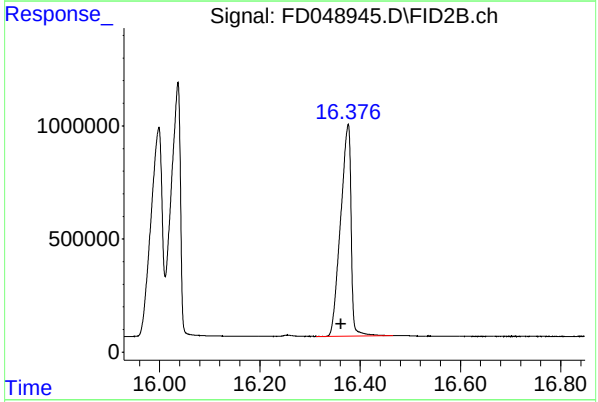
R.T.: 15.998 min
Delta R.T.: 0.017 min
Response: 14473755
Conc: 103.78 ug/ml



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

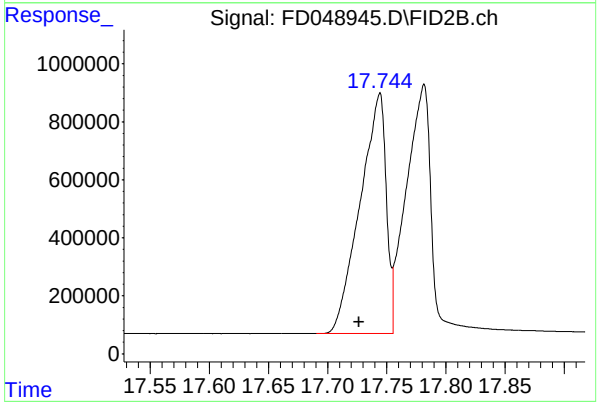
R.T.: 15.998 min
Delta R.T.: -0.015 min
Response: 14473755
Conc: 94.45 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



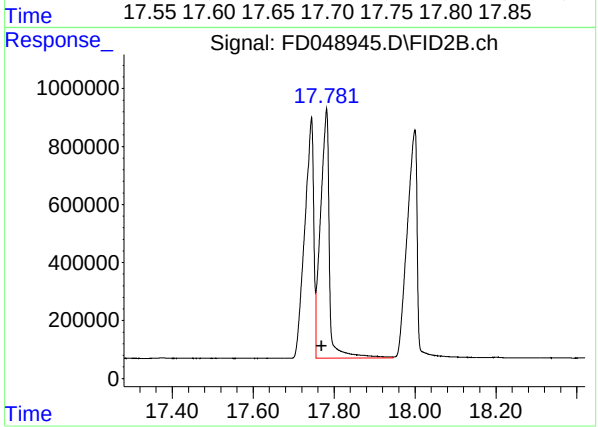
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.376 min
Delta R.T.: 0.014 min
Response: 13621709
Conc: 100.10 ug/ml



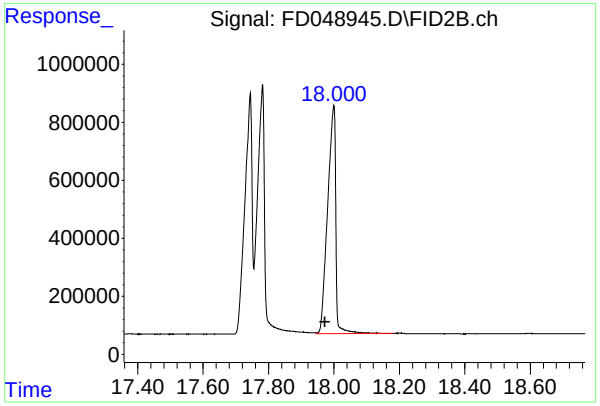
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.744 min
Delta R.T.: 0.017 min
Response: 12714636
Conc: 128.02 ug/ml



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

R.T.: 17.781 min
Delta R.T.: 0.012 min
Response: 13210762
Conc: 91.04 ug/ml



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

R.T.: 17.999 min
Delta R.T.: 0.027 mi
Response: 13643793
Conc: 98.16 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048945.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 08:47
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.183	4.120	4.307	BB	1736777	14992132	95.43%	4.938%
2	5.701	5.634	5.900	BB	1636672	15621502	99.44%	5.145%
3	6.749	6.709	6.884	VV	1523243	15294014	97.36%	5.037%
4	7.361	7.302	7.495	BB	1420699	13922522	88.63%	4.586%
5	8.016	7.960	8.155	BB	1519038	15709296	100.00%	5.174%
6	8.212	8.155	8.279	BV	899991	9285844	59.11%	3.058%
7	8.312	8.279	8.434	VB	1470056	15425654	98.19%	5.081%
8	9.090	9.055	9.279	BV	1431998	15561239	99.06%	5.125%
9	10.478	10.389	10.517	BV	1370701	15143368	96.40%	4.988%
10	10.554	10.517	10.769	VB	1239458	15070696	95.93%	4.964%
11	11.248	11.184	11.347	BB	1417944	15536261	98.90%	5.117%
12	12.284	12.239	12.417	PB	1209317	15255755	97.11%	5.025%
13	12.578	12.519	12.621	BV	1203145	15245192	97.05%	5.021%
14	14.448	14.394	14.464	BV	1026109	14536834	92.54%	4.788%
15	14.493	14.464	14.672	VV	1143610	14824620	94.37%	4.883%
16	15.998	15.930	16.012	BV	924869	14473755	92.13%	4.767%
17	16.036	16.012	16.170	VB	1127650	14526725	92.47%	4.785%
18	16.376	16.312	16.465	BV	933031	13621709	86.71%	4.486%
19	17.744	17.690	17.755	BV	825909	12714636	80.94%	4.188%
20	17.781	17.755	17.945	VV	862836	13210762	84.10%	4.351%
21	17.999	17.945	18.180	VV	783684	13643793	86.85%	4.494%
			Sum of corrected areas:			303616305		

Aromatic EPH 012425.M Sat Jan 25 03:46:58 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048946.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 03:31:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.357	7023342	50.022 ug/ml
Spiked Amount	50.000		Recovery =	100.04%
6) S	2-Flurobiphenyl (SURR)	8.208	4633464	53.253 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	106.51%
11) S	ortho-Terphenyl (SURR)	11.242	7916217	49.447 ug/ml
Spiked Amount	50.000		Recovery =	98.89%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.180	7560849	49.998 ug/ml
2) T	Naphthalene (C11.7)	5.698	7833852	50.580 ug/ml
3) T	2-Methylnaphthalene (...	6.745	7715439	50.213 ug/ml
5) T	Acenaphthylene (C15.06)	8.011	7975025	49.797 ug/ml
7) T	Acenaphthene (C15.5)	8.305	7895356	48.930 ug/ml
8) T	Flouorene (C16.55)	9.083	7857497	50.576 ug/ml
9) T	Phenanthrene (C19.36)	10.471	7661334	50.900 ug/ml
10) T	Anthracene (C19.43)	10.546	7663855	50.614 ug/ml
12) T	Fluoranthene (C21.85)	12.275	7770594	50.686 ug/ml
13) T	Pyrene (C20.8)	12.568	7762923	51.220 ug/ml
14) T	Benzo[a]anthracene (C...	14.441	7288947	54.155 ug/ml
15) T	Chrysene (C27.41)	14.482	7652930	48.415 ug/ml
16) T	benzo[b]fluoranthene ...	15.989	7300281	52.346 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.022	7491870	48.891 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.363	7044465	51.765 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.730	5943659	59.844 ug/ml
20) T	Dibenz[a,h]anthracene...	17.766	7086685	48.838 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	6967496	50.130 ug/ml

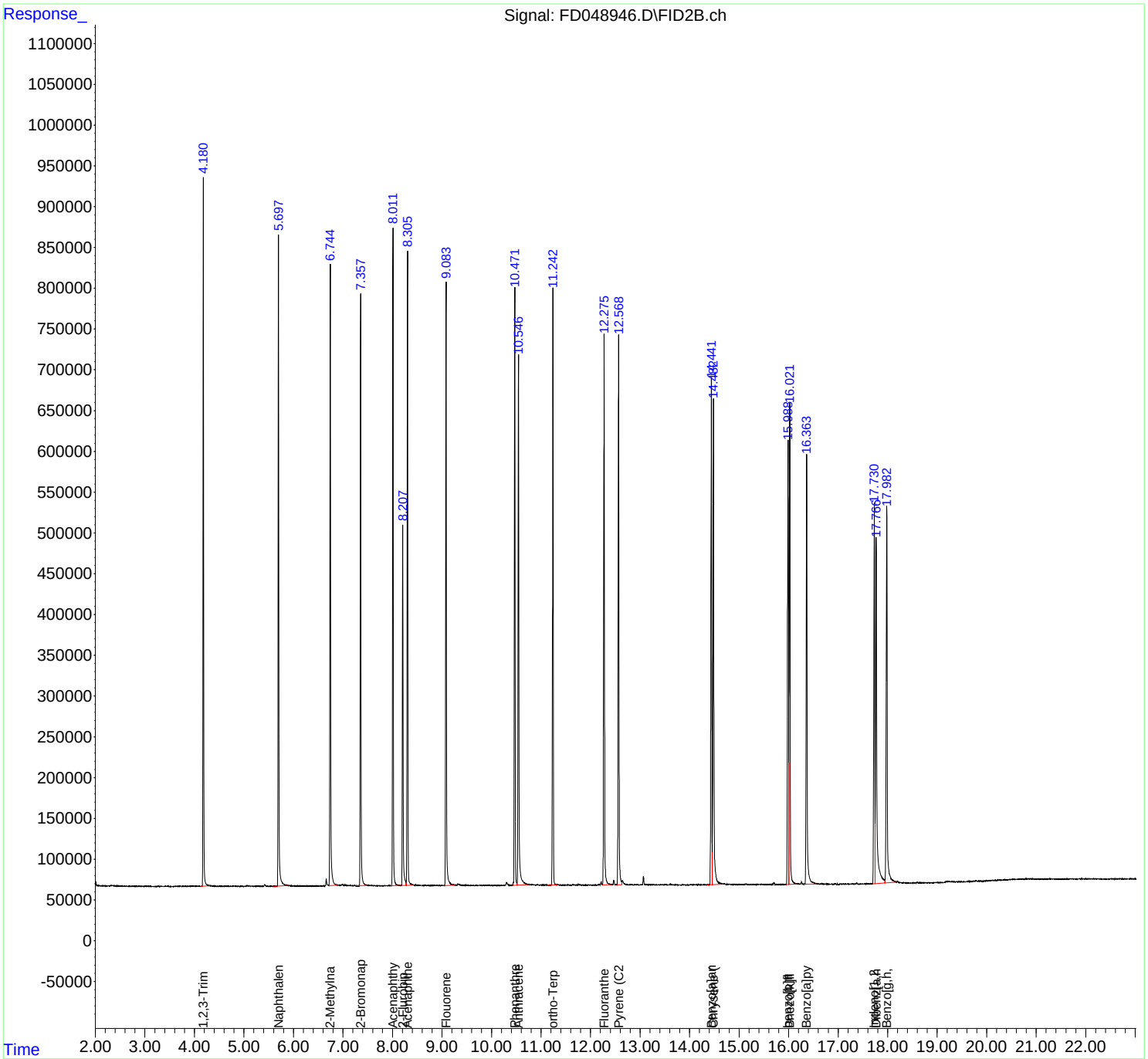
(f)=RT Delta > 1/2 Window (m)=manual int.

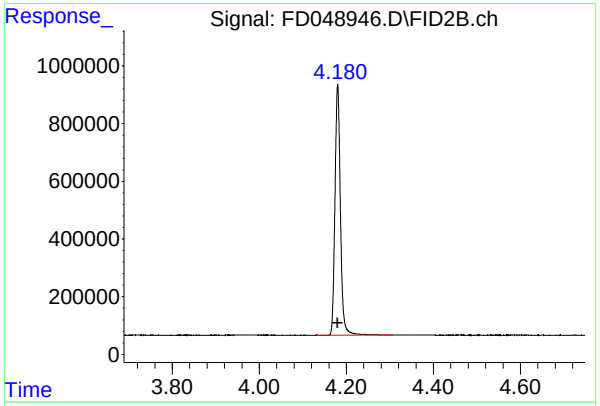
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048946.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 25 03:31:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

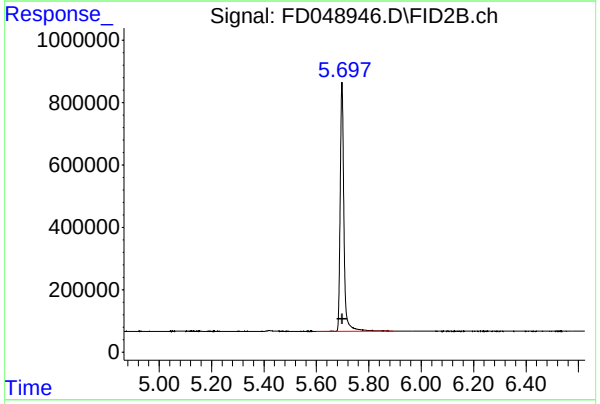




#1 1,2,3-Trimethylbenzene (C10.1)

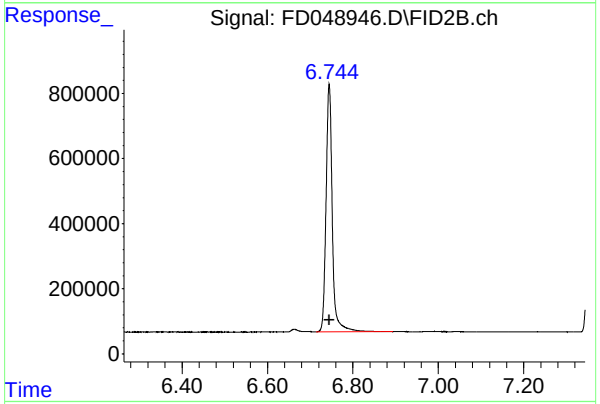
R.T.: 4.180 min
Delta R.T.: 0.000 min
Response: 7560849
Conc: 50.00 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



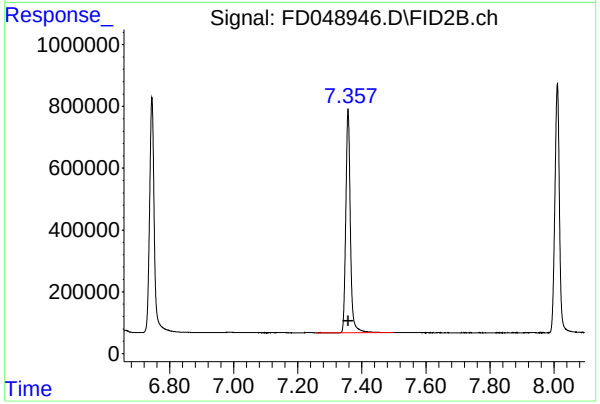
#2 Naphthalene (C11.7)

R.T.: 5.698 min
Delta R.T.: 0.000 min
Response: 7833852
Conc: 50.58 ug/ml



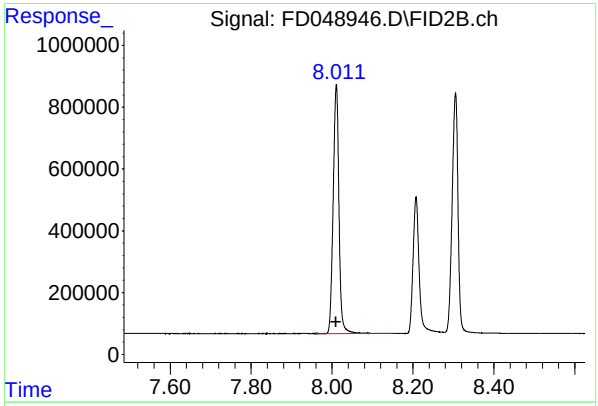
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.745 min
Delta R.T.: 0.000 min
Response: 7715439
Conc: 50.21 ug/ml



#4 2-Bromonaphthalene (SURR)

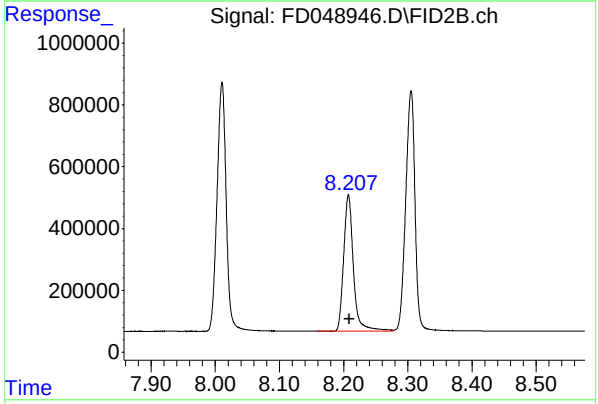
R.T.: 7.357 min
Delta R.T.: 0.000 min
Response: 7023342
Conc: 50.02 ug/ml



#5 Acenaphthylene (C15.06)

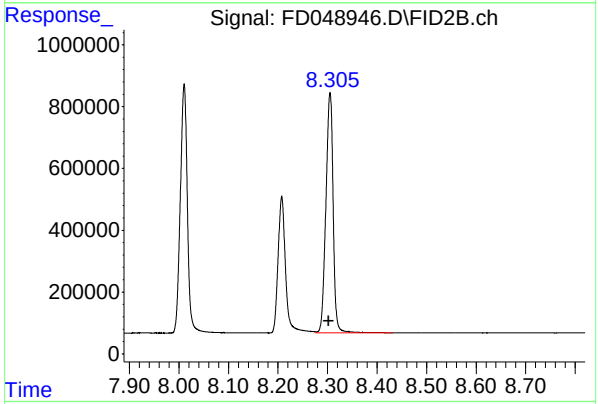
R.T.: 8.011 min
Delta R.T.: 0.001 min
Response: 7975025
Conc: 49.80 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



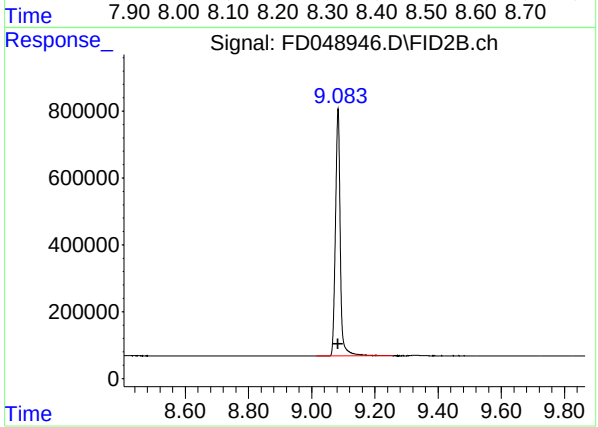
#6 2-Flurobiphenyl (SURR)

R.T.: 8.208 min
Delta R.T.: -0.002 min
Response: 4633464
Conc: 53.25 ug/ml



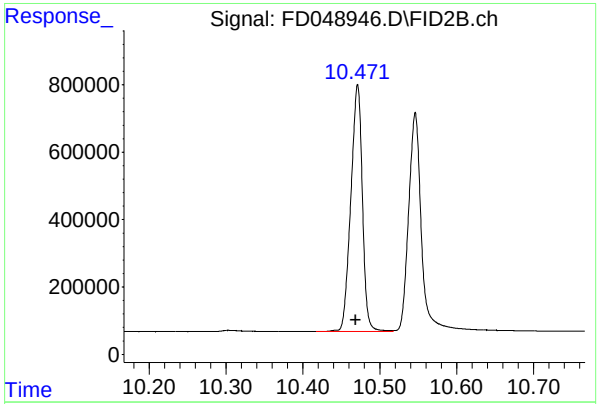
#7 Acenaphthene (C15.5)

R.T.: 8.305 min
Delta R.T.: 0.003 min
Response: 7895356
Conc: 48.93 ug/ml



#8 Flouorene (C16.55)

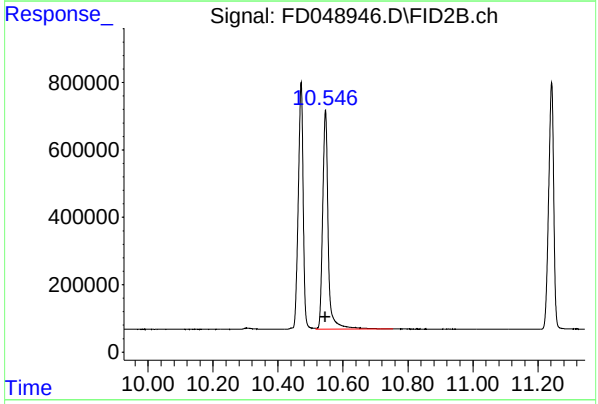
R.T.: 9.083 min
Delta R.T.: 0.000 min
Response: 7857497
Conc: 50.58 ug/ml



#9 Phenanthrene (C19.36)

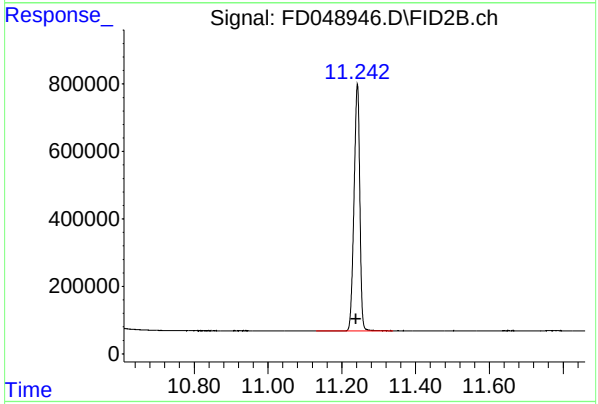
R.T.: 10.471 min
Delta R.T.: 0.003 min
Response: 7661334
Conc: 50.90 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



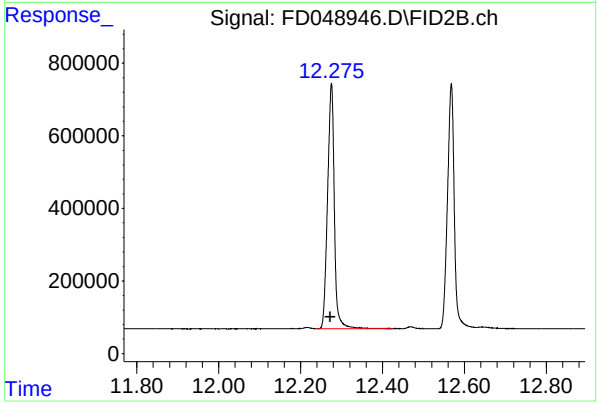
#10 Anthracene (C19.43)

R.T.: 10.546 min
Delta R.T.: 0.000 min
Response: 7663855
Conc: 50.61 ug/ml



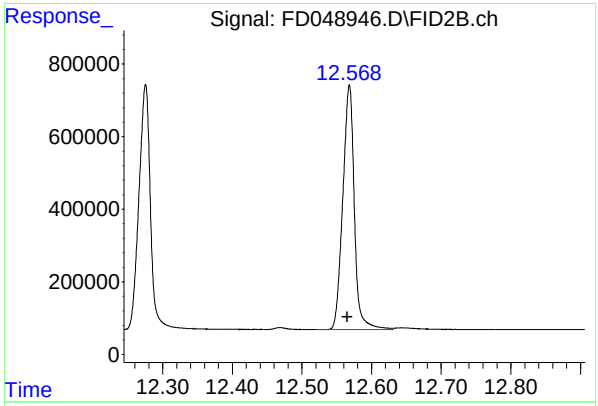
#11 ortho-Terphenyl (SURR)

R.T.: 11.242 min
Delta R.T.: 0.003 min
Response: 7916217
Conc: 49.45 ug/ml



#12 Fluoranthene (C21.85)

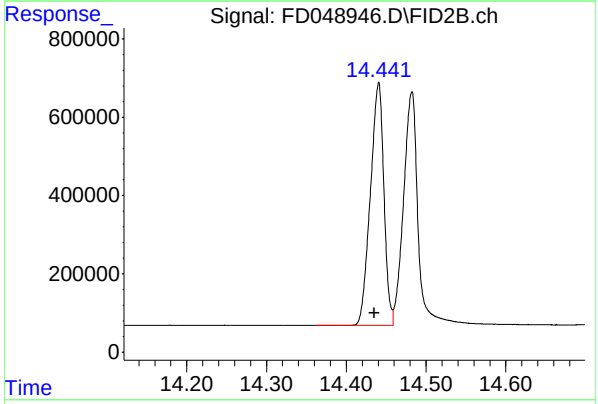
R.T.: 12.275 min
Delta R.T.: 0.002 min
Response: 7770594
Conc: 50.69 ug/ml



#13 Pyrene (C20.8)

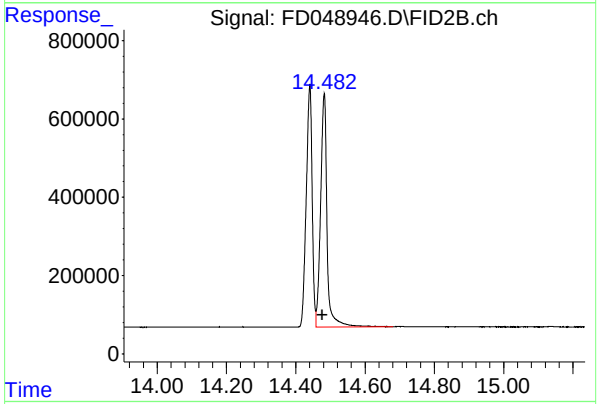
R.T.: 12.568 min
Delta R.T.: 0.003 min
Response: 7762923
Conc: 51.22 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



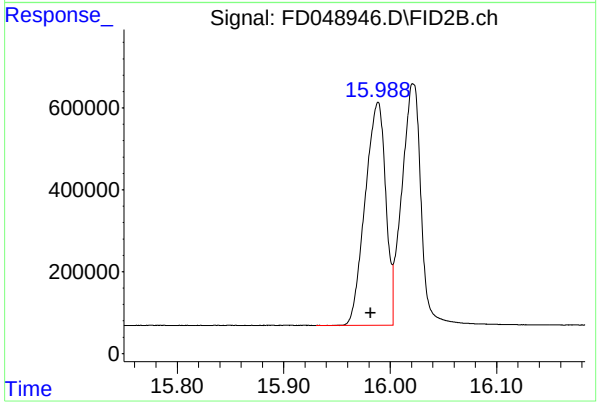
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.441 min
Delta R.T.: 0.006 min
Response: 7288947
Conc: 54.16 ug/ml



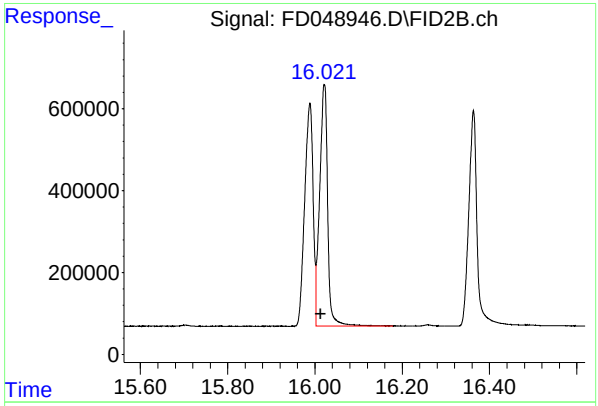
#15 Chrysene (C27.41)

R.T.: 14.482 min
Delta R.T.: 0.006 min
Response: 7652930
Conc: 48.41 ug/ml



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

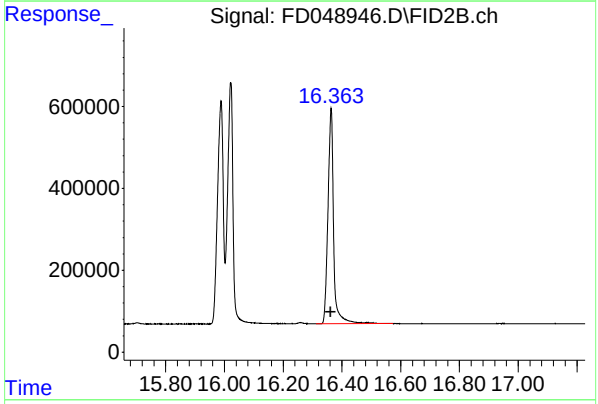
R.T.: 15.989 min
Delta R.T.: 0.007 min
Response: 7300281
Conc: 52.35 ug/ml



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

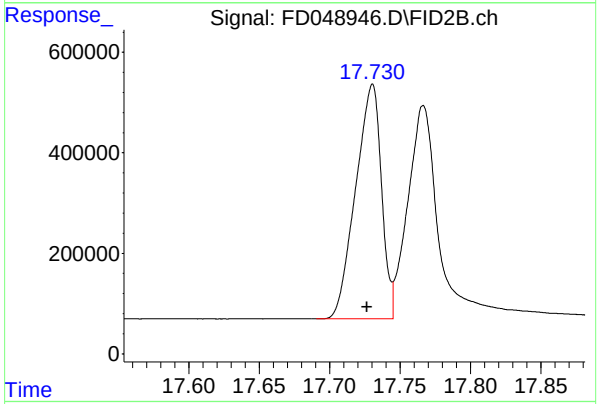
R.T.: 16.022 min
Delta R.T.: 0.009 min
Response: 7491870
Conc: 48.89 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



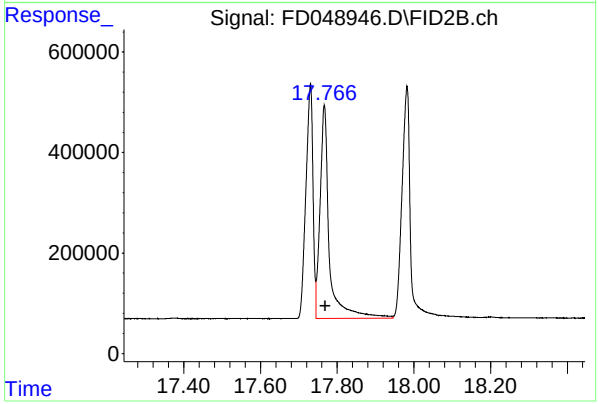
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.363 min
Delta R.T.: 0.002 min
Response: 7044465
Conc: 51.76 ug/ml



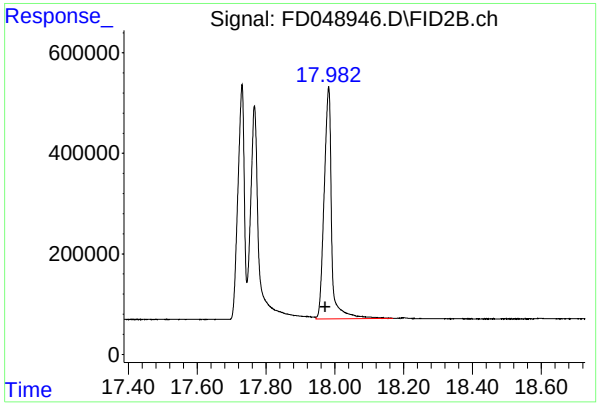
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.730 min
Delta R.T.: 0.004 min
Response: 5943659
Conc: 59.84 ug/ml



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

R.T.: 17.766 min
Delta R.T.: -0.003 min
Response: 7086685
Conc: 48.84 ug/ml



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

R.T.: 17.982 min
Delta R.T.: 0.010 mi
Response: 6967496
Conc: 50.13 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048946.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 09:23
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.180	4.130	4.307	BB	868449	7560849	94.81%	4.908%
2	5.698	5.599	5.892	BB	798478	7833852	98.23%	5.085%
3	6.745	6.714	6.894	VV	762428	7715439	96.75%	5.009%
4	7.357	7.257	7.497	PB	724369	7023342	88.07%	4.559%
5	8.011	7.960	8.150	BB	805518	7975025	100.00%	5.177%
6	8.208	8.157	8.277	BV	440660	4633464	58.10%	3.008%
7	8.305	8.277	8.432	VB	777977	7895356	99.00%	5.125%
8	9.083	9.014	9.257	BB	740035	7857497	98.53%	5.101%
9	10.471	10.417	10.517	BV	733078	7661334	96.07%	4.973%
10	10.546	10.517	10.754	VB	649439	7663855	96.10%	4.975%
11	11.242	11.130	11.339	BB	731852	7916217	99.26%	5.139%
12	12.275	12.238	12.425	VB	675814	7770594	97.44%	5.044%
13	12.568	12.520	12.631	BV	675194	7762923	97.34%	5.039%
14	14.441	14.362	14.458	BV	618813	7288947	91.40%	4.732%
15	14.482	14.458	14.680	VV	595519	7652930	95.96%	4.968%
16	15.989	15.930	16.003	BV	545666	7300281	91.54%	4.739%
17	16.022	16.003	16.179	VB	589707	7491870	93.94%	4.863%
18	16.363	16.312	16.574	BB	526307	7044465	88.33%	4.573%
19	17.730	17.690	17.745	BV	467658	5943659	74.53%	3.858%
20	17.766	17.745	17.945	VV	424602	7086685	88.86%	4.600%
21	17.982	17.945	18.169	VV	461651	6967496	87.37%	4.523%

Sum of corrected areas: 154046082

Aromatic EPH 012425.M Sat Jan 25 03:47:24 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048947.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 03:29:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.358	2808122	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.209	1740176	20.000 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.00%	
11)	S ortho-Terphenyl (SURR)	11.239	3201898	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.180	3024439	20.000 ug/ml
2)	T Naphthalene (C11.7)	5.699	3097612	20.000 ug/ml
3)	T 2-Methylnaphthalene (...	6.745	3073064	20.000 ug/ml
5)	T Acenaphthylene (C15.06)	8.009	3202988	20.000 ug/ml
7)	T Acenaphthene (C15.5)	8.302	3227226	20.000 ug/ml
8)	T Flouorene (C16.55)	9.083	3107231	20.000 ug/ml
9)	T Phenanthrene (C19.36)	10.469	3010366	20.000 ug/ml
10)	T Anthracene (C19.43)	10.546	3028354	20.000 ug/ml
12)	T Fluoranthene (C21.85)	12.273	3066144	20.000 ug/ml
13)	T Pyrene (C20.8)	12.565	3031227	20.000 ug/ml
14)	T Benzo[a]anthracene (C...	14.435	2691882	20.000 ug/ml
15)	T Chrysene (C27.41)	14.476	3161412	20.000 ug/ml
16)	T benzo[b]fluoranthene ...	15.982	2789216	20.000 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.013	3064740	20.000 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.362	2721730	20.000 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.727	1986390	20.000 ug/ml
20)	T Dibenz[a,h]anthracene...	17.769	2902119	20.000 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.972	2779778	20.000 ug/ml

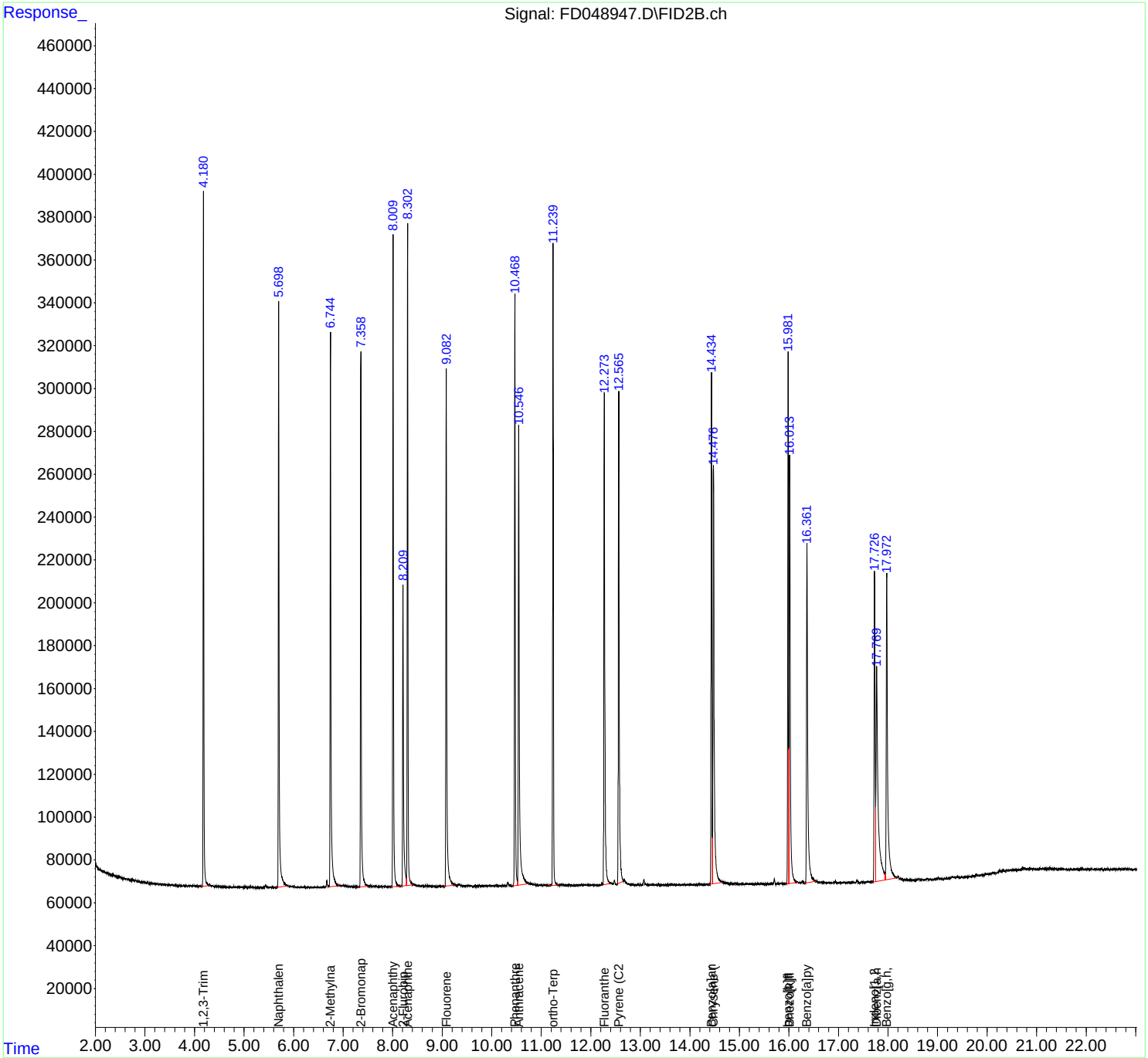
(f)=RT Delta > 1/2 Window (m)=manual int.

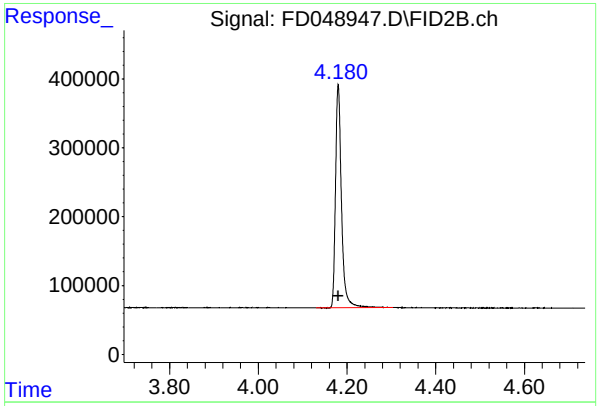
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048947.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 25 03:29:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

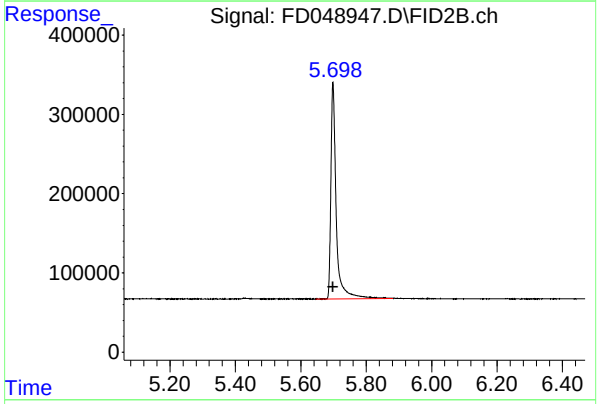




#1 1,2,3-Trimethylbenzene (C10.1)

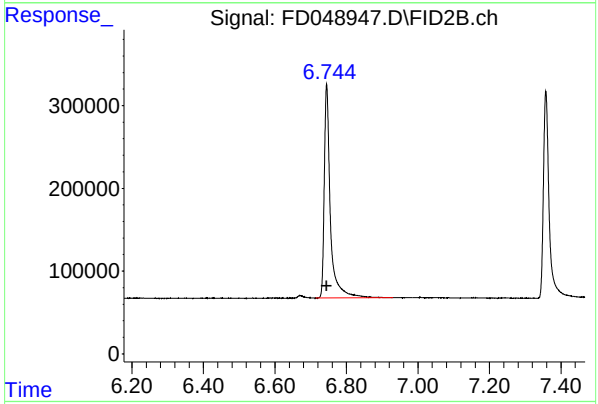
R.T.: 4.180 min
Delta R.T.: 0.000 min
Response: 3024439
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



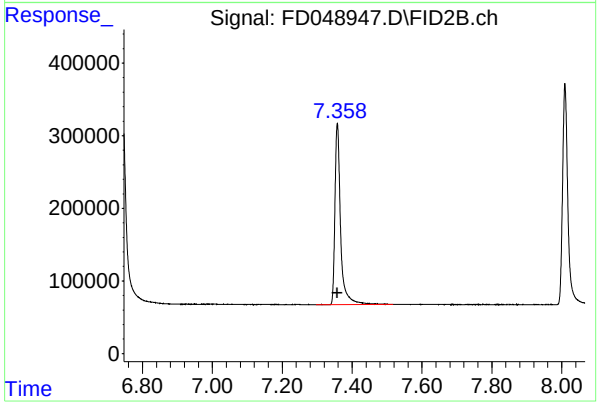
#2 Naphthalene (C11.7)

R.T.: 5.699 min
Delta R.T.: 0.000 min
Response: 3097612
Conc: 20.00 ug/ml



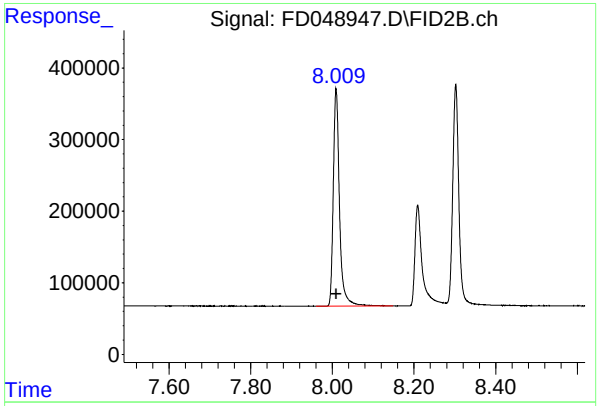
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.745 min
Delta R.T.: 0.000 min
Response: 3073064
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

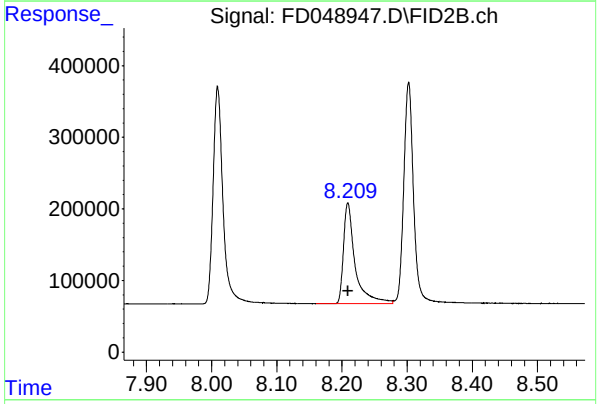
R.T.: 7.358 min
Delta R.T.: 0.000 min
Response: 2808122
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

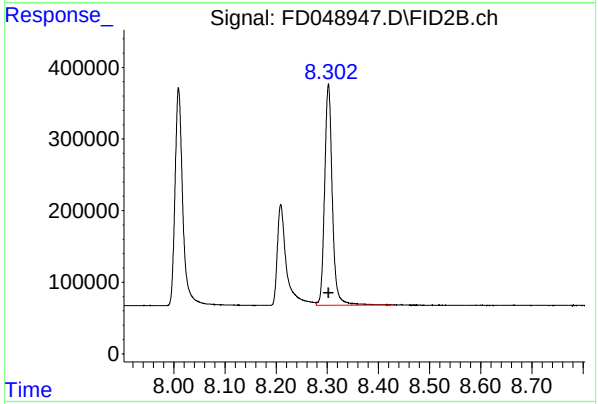
R.T.: 8.009 min
Delta R.T.: 0.000 min
Response: 3202988
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



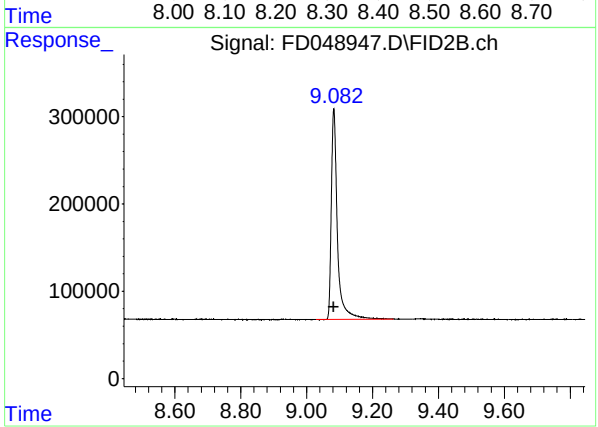
#6 2-Flurobiphenyl (SURR)

R.T.: 8.209 min
Delta R.T.: 0.000 min
Response: 1740176
Conc: 20.00 ug/ml



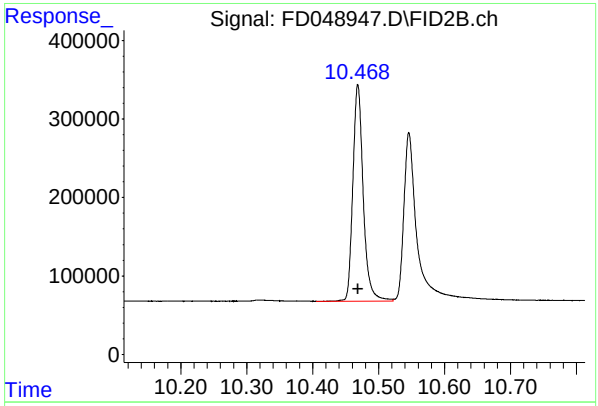
#7 Acenaphthene (C15.5)

R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 3227226
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

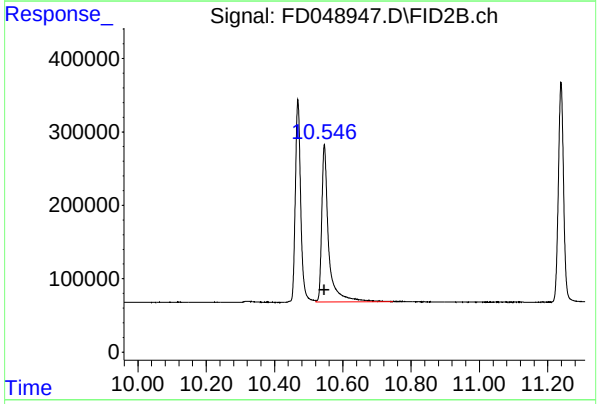
R.T.: 9.083 min
Delta R.T.: 0.000 min
Response: 3107231
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

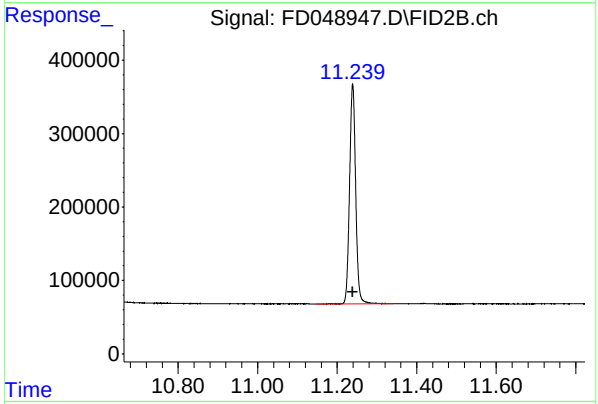
R.T.: 10.469 min
Delta R.T.: 0.000 min
Response: 3010366
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



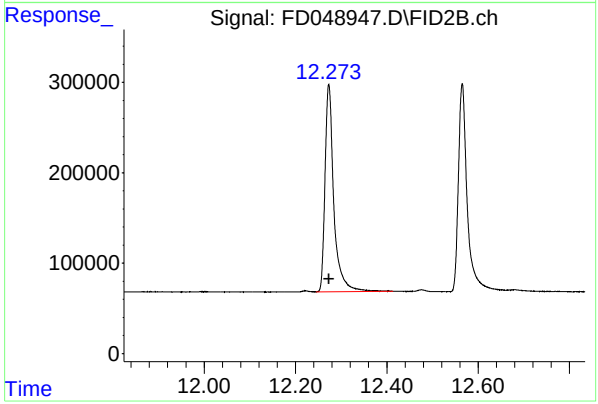
#10 Anthracene (C19.43)

R.T.: 10.546 min
Delta R.T.: 0.000 min
Response: 3028354
Conc: 20.00 ug/ml



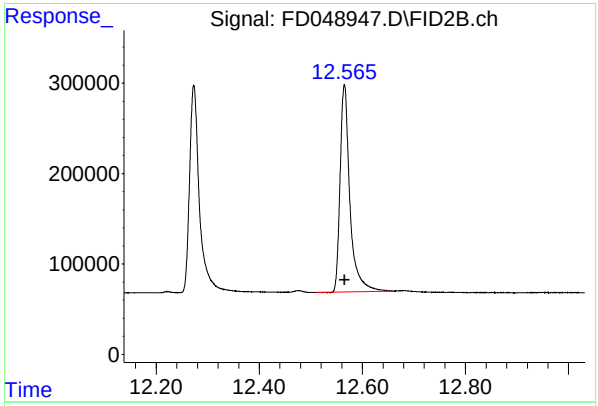
#11 ortho-Terphenyl (SURR)

R.T.: 11.239 min
Delta R.T.: 0.000 min
Response: 3201898
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

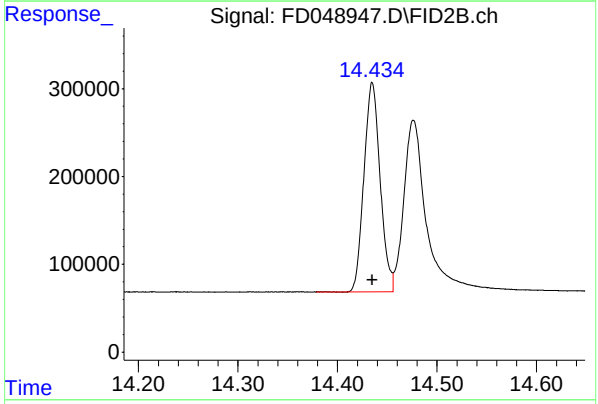
R.T.: 12.273 min
Delta R.T.: 0.000 min
Response: 3066144
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

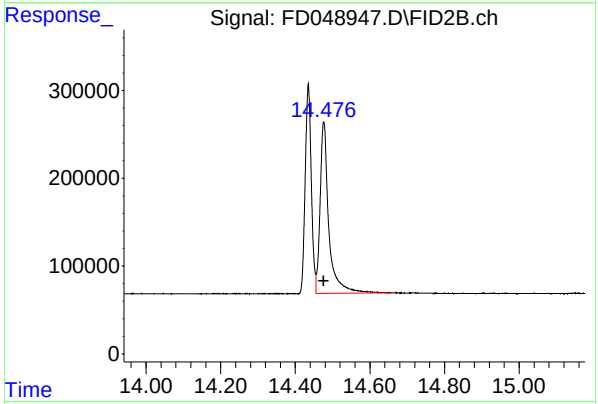
R.T.: 12.565 min
Delta R.T.: 0.000 min
Response: 3031227
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



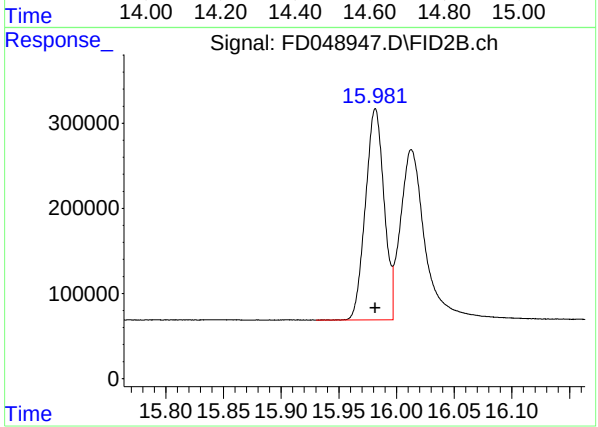
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.435 min
Delta R.T.: 0.000 min
Response: 2691882
Conc: 20.00 ug/ml



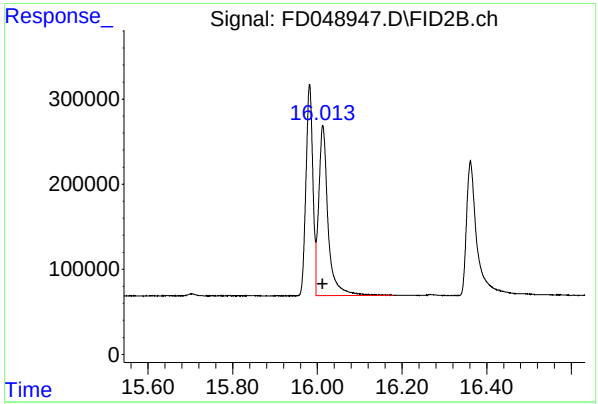
#15 Chrysene (C27.41)

R.T.: 14.476 min
Delta R.T.: 0.000 min
Response: 3161412
Conc: 20.00 ug/ml



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

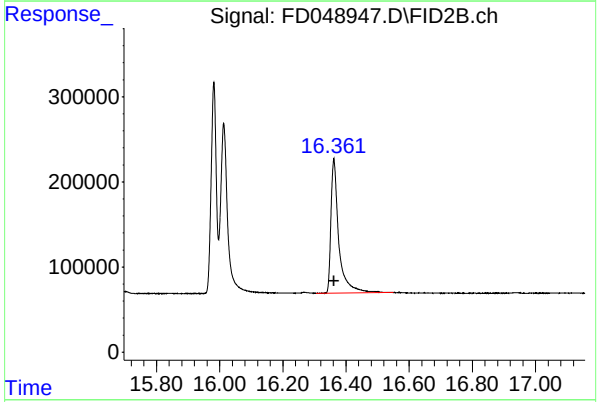
R.T.: 15.982 min
Delta R.T.: 0.000 min
Response: 2789216
Conc: 20.00 ug/ml



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

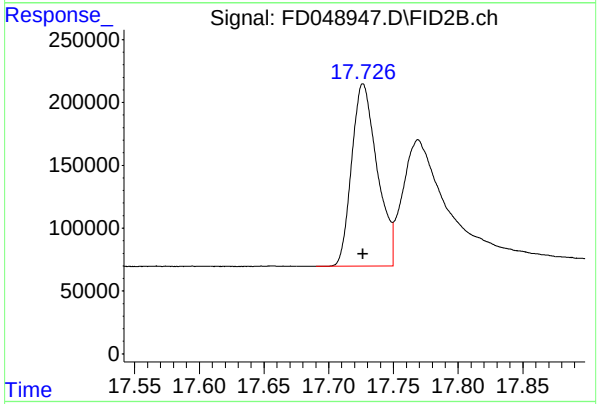
R.T.: 16.013 min
Delta R.T.: 0.000 min
Response: 3064740
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



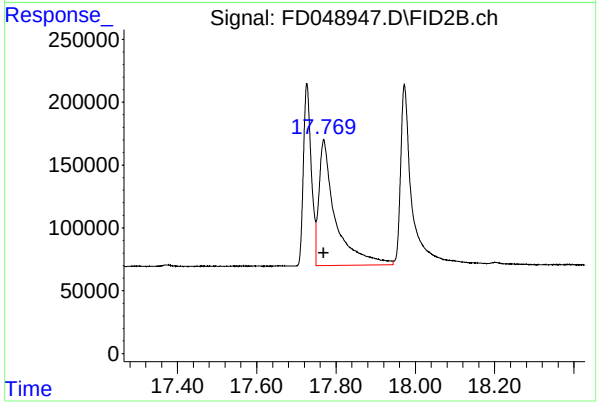
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.000 min
Response: 2721730
Conc: 20.00 ug/ml



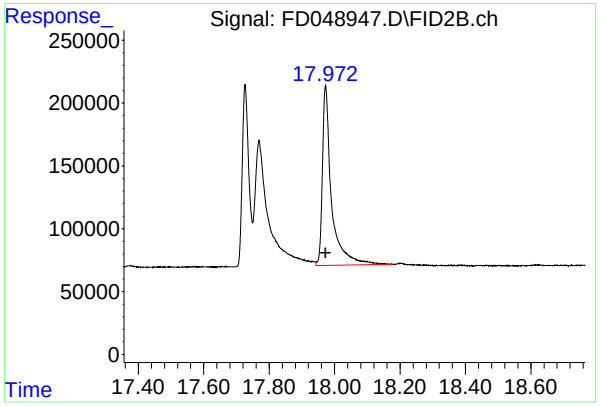
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.727 min
Delta R.T.: 0.000 min
Response: 1986390
Conc: 20.00 ug/ml



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

R.T.: 17.769 min
Delta R.T.: 0.000 min
Response: 2902119
Conc: 20.00 ug/ml



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

R.T.: 17.972 min
Delta R.T.: 0.000 mi
Response: 2779778
Conc: 20.00 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048947.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 09:58
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.180	4.130	4.303	BB	324018	3024439	93.72%	4.981%
2	5.699	5.647	5.882	BB	272926	3097612	95.98%	5.102%
3	6.745	6.715	6.930	BB	258229	3073064	95.22%	5.061%
4	7.358	7.297	7.517	BB	250433	2808122	87.01%	4.625%
5	8.009	7.960	8.148	BB	303813	3202988	99.25%	5.275%
6	8.209	8.160	8.278	BV	140619	1740176	53.92%	2.866%
7	8.302	8.278	8.428	VB	308524	3227226	100.00%	5.315%
8	9.083	9.028	9.262	BB	241476	3107231	96.28%	5.118%
9	10.469	10.405	10.522	BV	276143	3010366	93.28%	4.958%
10	10.546	10.522	10.747	VB	213957	3028354	93.84%	4.988%
11	11.239	11.147	11.340	BB	299992	3201898	99.22%	5.274%
12	12.273	12.245	12.413	BB	229453	3066144	95.01%	5.050%
13	12.565	12.510	12.659	BV	229677	3031227	93.93%	4.992%
14	14.435	14.378	14.456	BV	238271	2691882	83.41%	4.434%
15	14.476	14.456	14.662	VB	195270	3161412	97.96%	5.207%
16	15.982	15.930	15.997	BV	248399	2789216	86.43%	4.594%
17	16.013	15.997	16.178	VB	199815	3064740	94.97%	5.048%
18	16.362	16.305	16.548	BB	158092	2721730	84.34%	4.483%
19	17.727	17.690	17.750	BV	145010	1986390	61.55%	3.272%
20	17.769	17.750	17.943	VV	100428	2902119	89.93%	4.780%
21	17.972	17.943	18.178	VV	142970	2779778	86.14%	4.578%
			Sum of corrected areas:			60716111		

Aromatic EPH 012425.M Sat Jan 25 03:47:39 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048948.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 03:31:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.360	1479402	10.537 ug/ml
Spiked Amount	50.000		Recovery =	21.07%
6) S	2-Flurobiphenyl (SURR)	8.215	849450	9.763 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	19.53%
11) S	ortho-Terphenyl (SURR)	11.239	1726263	10.783 ug/ml
Spiked Amount	50.000		Recovery =	21.57%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.182	1604565	10.611 ug/ml
2) T	Naphthalene (C11.7)	5.702	1618653	10.451 ug/ml
3) T	2-Methylnaphthalene (...	6.748	1607311	10.461 ug/ml
5) T	Acenaphthylene (C15.06)	8.011	1700004	10.615 ug/ml
7) T	Acenaphthene (C15.5)	8.302	1766355	10.947 ug/ml
8) T	Flouorene (C16.55)	9.086	1613538	10.386 ug/ml
9) T	Phenanthrene (C19.36)	10.471	1562014	10.378 ug/ml
10) T	Anthracene (C19.43)	10.550	1574502	10.398 ug/ml
12) T	Fluoranthene (C21.85)	12.278	1631103	10.639 ug/ml
13) T	Pyrene (C20.8)	12.569	1632105	10.769 ug/ml
14) T	Benzo[a]anthracene (C...	14.439	1226846	9.115 ug/ml
15) T	Chrysene (C27.41)	14.478	1859136	11.761 ug/ml
16) T	benzo[b]fluoranthene ...	15.984	1354636	9.713 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.016	1754098	11.447 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.371	1447102	10.634 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.739	938875	9.453 ug/ml
20) T	Dibenz[a,h]anthracene...	17.785	1549713	10.680 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.980	1491403	10.730 ug/ml

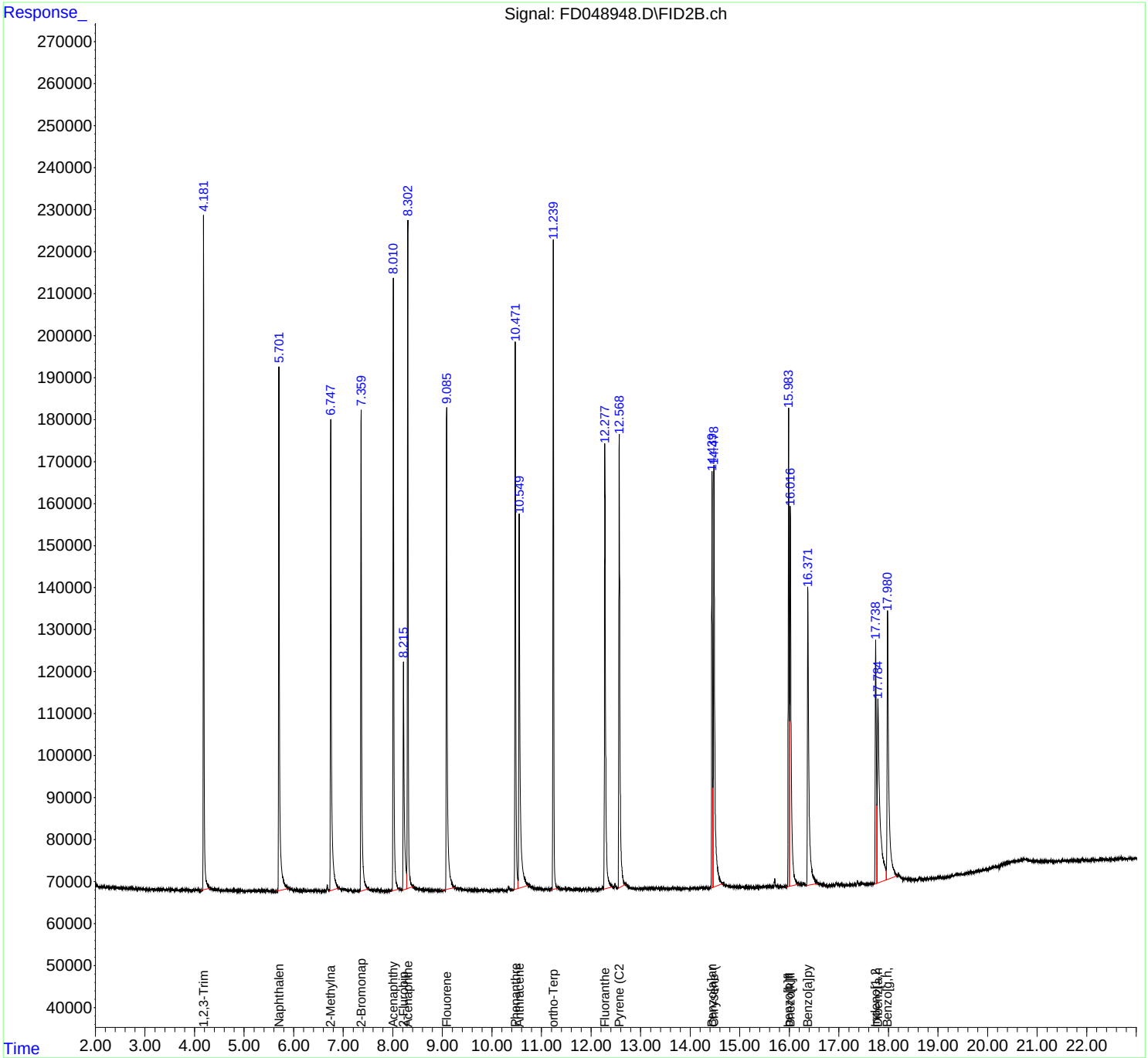
(f)=RT Delta > 1/2 Window (m)=manual int.

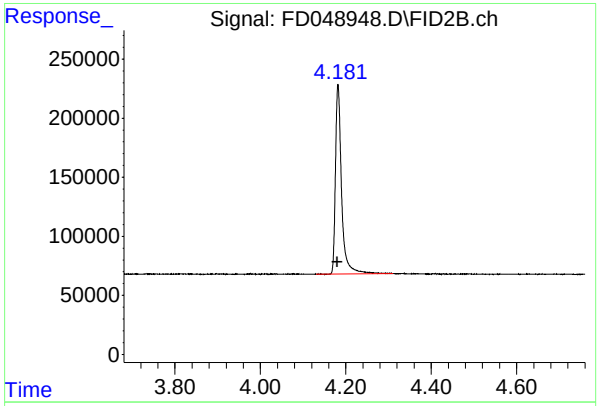
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048948.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 25 03:31:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

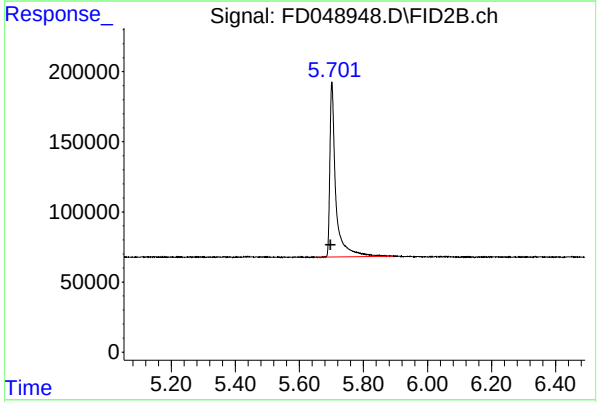




#1 1,2,3-Trimethylbenzene (C10.1)

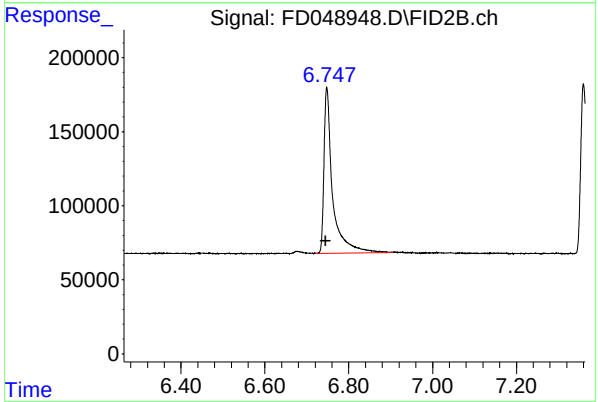
R.T.: 4.182 min
Delta R.T.: 0.002 min
Response: 1604565
Conc: 10.61 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



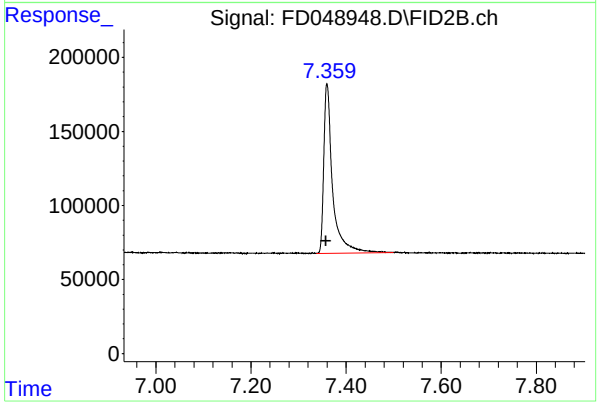
#2 Naphthalene (C11.7)

R.T.: 5.702 min
Delta R.T.: 0.003 min
Response: 1618653
Conc: 10.45 ug/ml



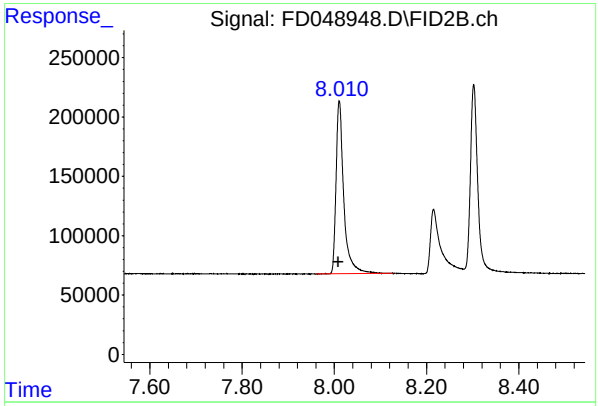
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.748 min
Delta R.T.: 0.003 min
Response: 1607311
Conc: 10.46 ug/ml



#4 2-Bromonaphthalene (SURR)

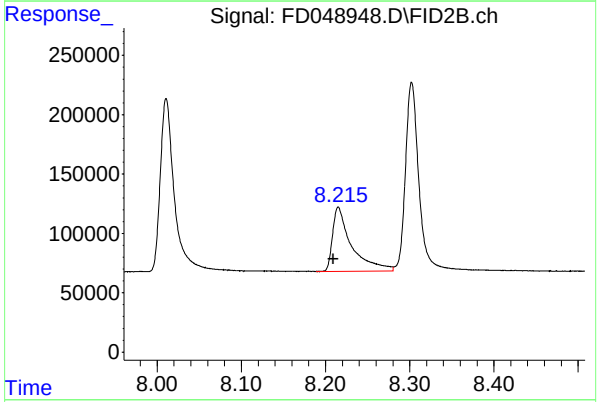
R.T.: 7.360 min
Delta R.T.: 0.002 min
Response: 1479402
Conc: 10.54 ug/ml



#5 Acenaphthylene (C15.06)

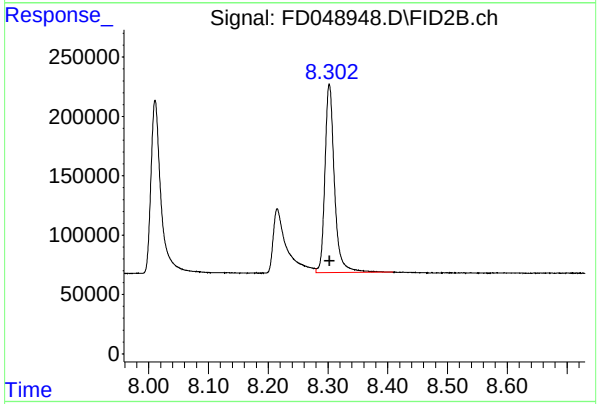
R.T.: 8.011 min
Delta R.T.: 0.002 min
Response: 1700004
Conc: 10.62 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



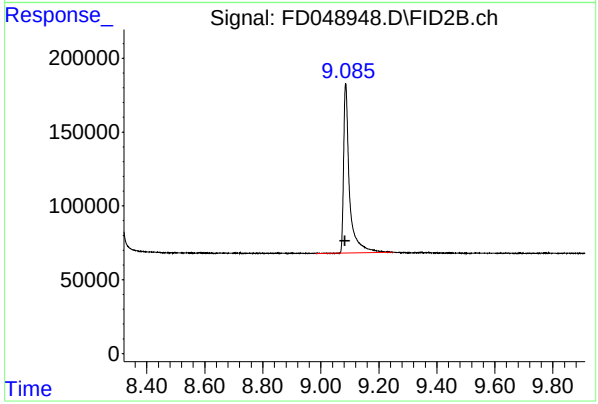
#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: 0.006 min
Response: 849450
Conc: 9.76 ug/ml



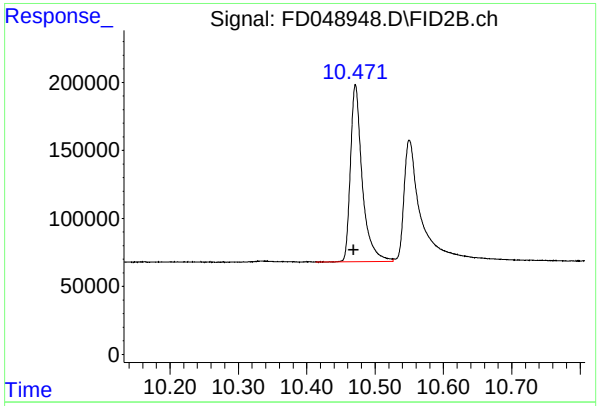
#7 Acenaphthene (C15.5)

R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 1766355
Conc: 10.95 ug/ml



#8 Flouorene (C16.55)

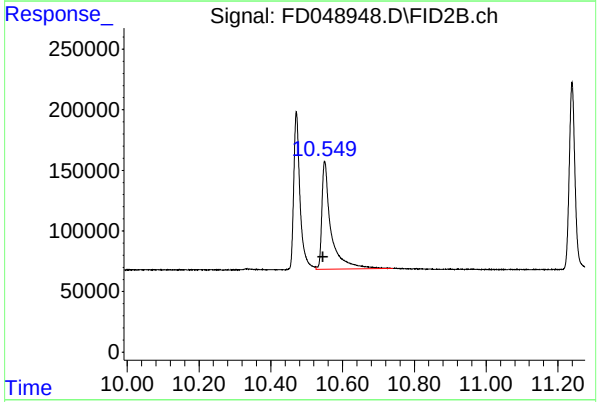
R.T.: 9.086 min
Delta R.T.: 0.003 min
Response: 1613538
Conc: 10.39 ug/ml



#9 Phenanthrene (C19.36)

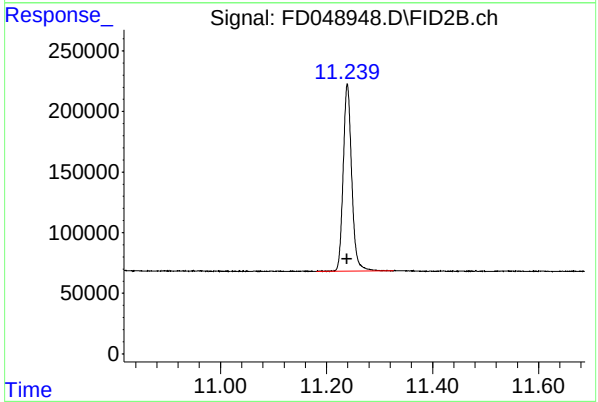
R.T.: 10.471 min
Delta R.T.: 0.003 min
Response: 1562014
Conc: 10.38 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



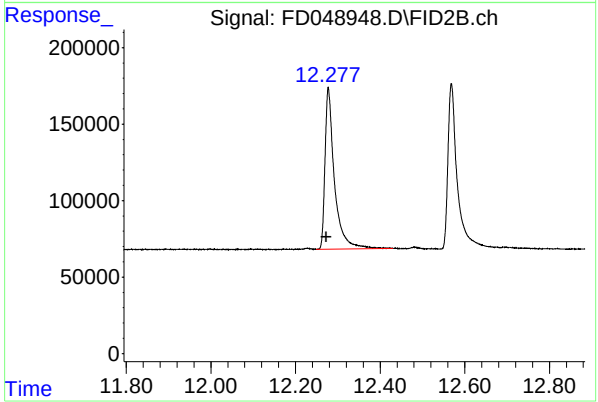
#10 Anthracene (C19.43)

R.T.: 10.550 min
Delta R.T.: 0.004 min
Response: 1574502
Conc: 10.40 ug/ml



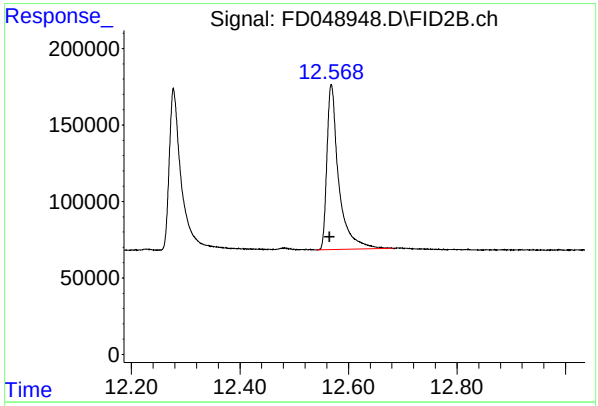
#11 ortho-Terphenyl (SURR)

R.T.: 11.239 min
Delta R.T.: 0.000 min
Response: 1726263
Conc: 10.78 ug/ml



#12 Fluoranthene (C21.85)

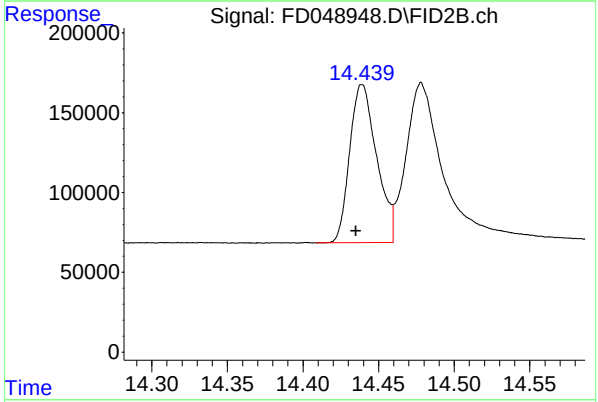
R.T.: 12.278 min
Delta R.T.: 0.005 min
Response: 1631103
Conc: 10.64 ug/ml



#13 Pyrene (C20.8)

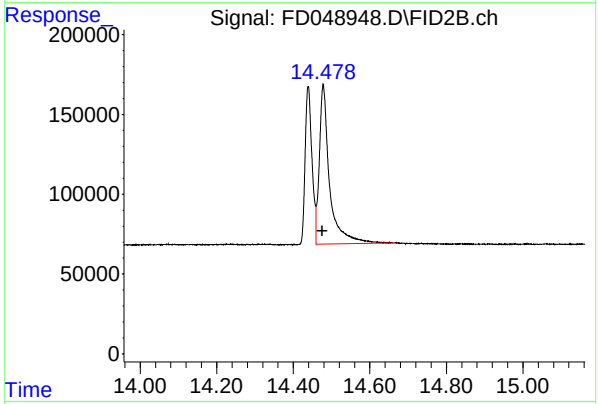
R.T.: 12.569 min
Delta R.T.: 0.003 min
Response: 1632105
Conc: 10.77 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



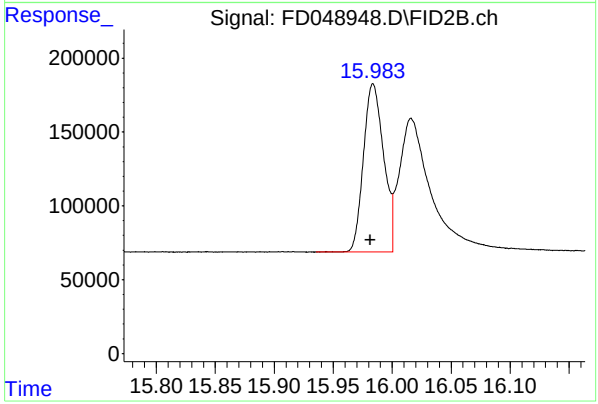
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.439 min
Delta R.T.: 0.004 min
Response: 1226846
Conc: 9.12 ug/ml



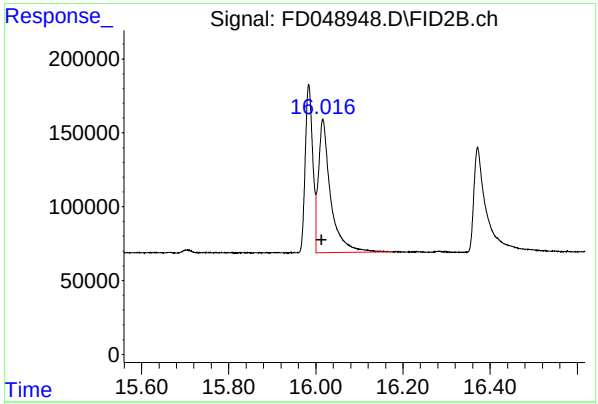
#15 Chrysene (C27.41)

R.T.: 14.478 min
Delta R.T.: 0.002 min
Response: 1859136
Conc: 11.76 ug/ml



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

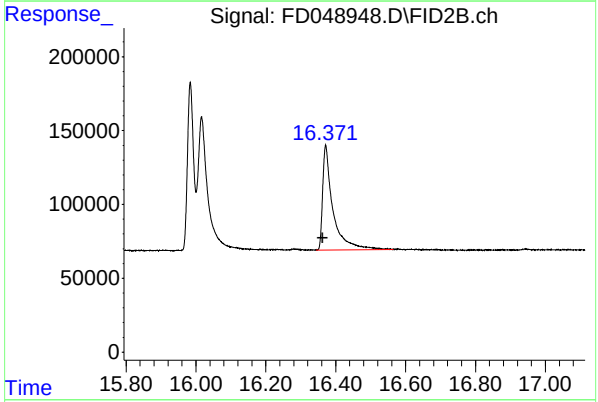
R.T.: 15.984 min
Delta R.T.: 0.002 min
Response: 1354636
Conc: 9.71 ug/ml



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

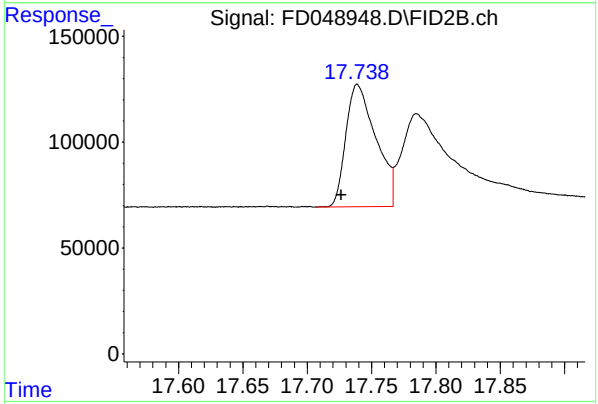
R.T.: 16.016 min
Delta R.T.: 0.003 min
Response: 1754098
Conc: 11.45 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4



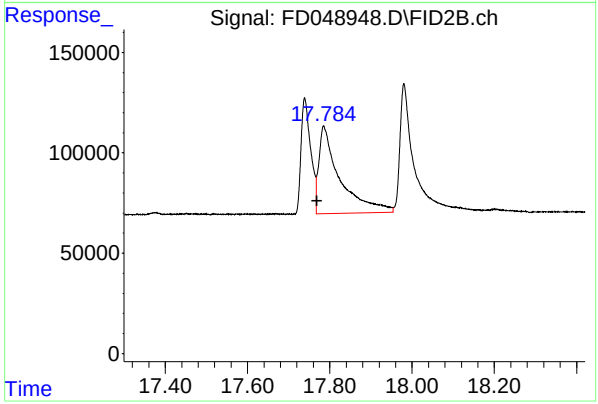
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.371 min
Delta R.T.: 0.010 min
Response: 1447102
Conc: 10.63 ug/ml



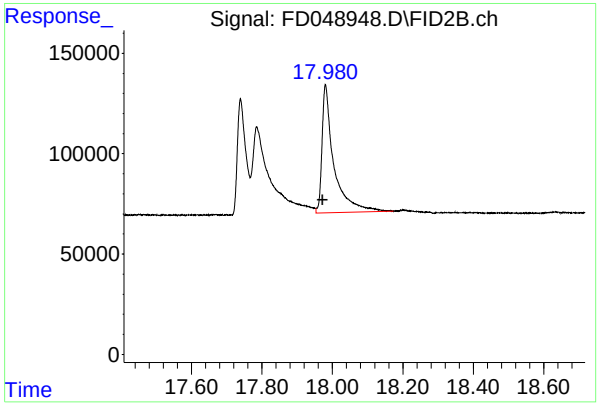
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.739 min
Delta R.T.: 0.012 min
Response: 938875
Conc: 9.45 ug/ml



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

R.T.: 17.785 min
Delta R.T.: 0.016 min
Response: 1549713
Conc: 10.68 ug/ml



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

R.T.: 17.980 min
Delta R.T.: 0.008 mi
Response: 1491403
Conc: 10.73 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048948.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 10:34
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.182	4.130	4.310	BB	160261	1604565	86.31%	5.016%
2	5.702	5.652	5.892	BB	124577	1618653	87.06%	5.060%
3	6.748	6.722	6.905	BB	111484	1607311	86.45%	5.025%
4	7.360	7.337	7.499	BB	114130	1479402	79.57%	4.625%
5	8.011	7.960	8.127	BB	145971	1700004	91.44%	5.315%
6	8.215	8.189	8.280	BV	54185	849450	45.69%	2.656%
7	8.302	8.280	8.409	VB	159016	1766355	95.01%	5.522%
8	9.086	8.984	9.249	BB	114852	1613538	86.79%	5.044%
9	10.471	10.414	10.526	BV	129870	1562014	84.02%	4.883%
10	10.550	10.526	10.740	VB	88970	1574502	84.69%	4.922%
11	11.239	11.180	11.325	BV	154484	1726263	92.85%	5.397%
12	12.278	12.249	12.430	BB	105878	1631103	87.73%	5.099%
13	12.569	12.540	12.682	BV	107859	1632105	87.79%	5.102%
14	14.439	14.409	14.459	BV	99278	1226846	65.99%	3.835%
15	14.478	14.459	14.660	VB	100202	1859136	100.00%	5.812%
16	15.984	15.935	16.001	BV	113801	1354636	72.86%	4.235%
17	16.016	16.001	16.177	VV	89932	1754098	94.35%	5.484%
18	16.371	16.344	16.564	BB	70909	1447102	77.84%	4.524%
19	17.739	17.707	17.767	BV	57877	938875	50.50%	2.935%
20	17.785	17.767	17.954	VV	43754	1549713	83.36%	4.845%
21	17.980	17.954	18.172	VB	63902	1491403	80.22%	4.663%
			Sum of corrected areas:			31987074		

Aromatic EPH 012425.M Sat Jan 25 03:47:53 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048949.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025

Integration File: autoint1.e
Quant Time: Jan 25 03:32:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.368	717868	5.113 ug/ml
Spiked Amount	50.000		Recovery =	10.23%
6) S	2-Flurobiphenyl (SURR)	8.233	339783	3.905 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	7.81%
11) S	ortho-Terphenyl (SURR)	11.242	879266	5.492 ug/ml
Spiked Amount	50.000		Recovery =	10.98%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.184	789589	5.221 ug/ml
2) T	Naphthalene (C11.7)	5.708	759669	4.905 ug/ml
3) T	2-Methylnaphthalene (...	6.756	770079	5.012 ug/ml
5) T	Acenaphthylene (C15.06)	8.016	854846	5.338 ug/ml
7) T	Acenaphthene (C15.5)	8.305	948275	5.877 ug/ml
8) T	Flouorene (C16.55)	9.095	763400	4.914 ug/ml
9) T	Phenanthrene (C19.36)	10.483	750630	4.987 ug/ml
10) T	Anthracene (C19.43)	10.566	743883	4.913 ug/ml
12) T	Fluoranthene (C21.85)	12.291	810442	5.286 ug/ml
13) T	Pyrene (C20.8)	12.579	825951	5.450 ug/ml
14) T	Benzo[a]anthracene (C...	14.456	474873	3.528 ug/ml
15) T	Chrysene (C27.41)	14.492	1000984	6.333 ug/ml
16) T	benzo[b]fluoranthene ...	15.999	587465	4.212 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.034	932809	6.087 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.395	689943	5.070 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.768	411157	4.140 ug/ml
20) T	Dibenz[a,h]anthracene...	17.816	699298	4.819 ug/mlm
21) T	Benzo[g,h,i]perylene ...	17.998	746404	5.370 ug/ml

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048949.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

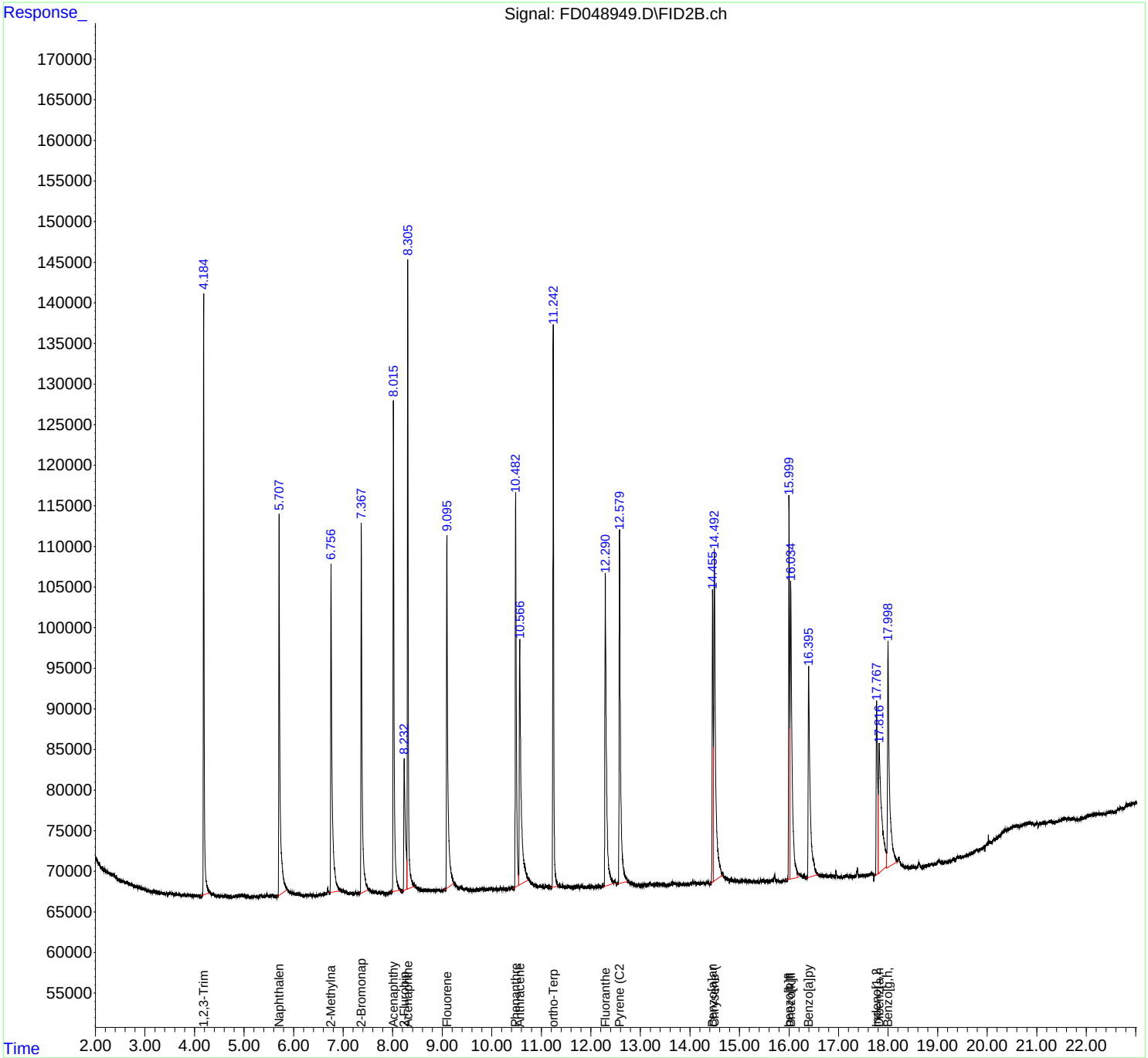
Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

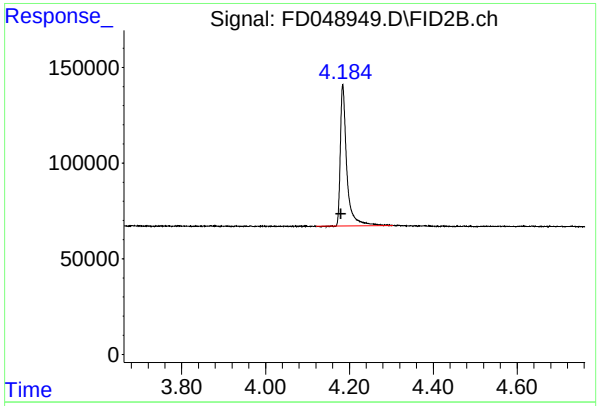
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025

Integration File: autoint1.e
Quant Time: Jan 25 03:32:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:28:54 2025
Response via : Initial Calibration
Integrator: ChemStation

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





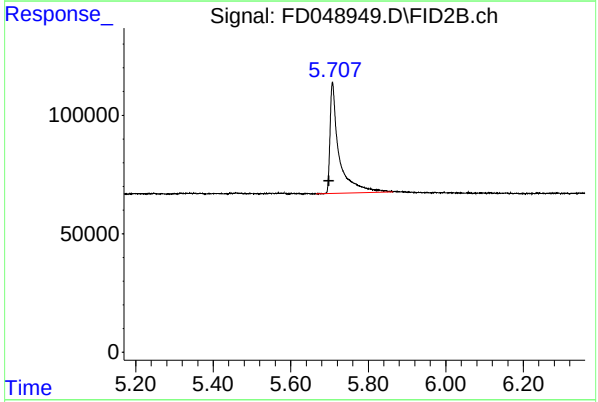
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.184 min
Delta R.T.: 0.004 min
Response: 789589
Conc: 5.22 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

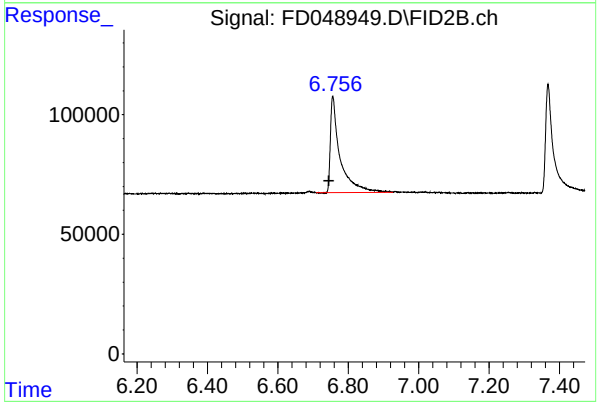
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025



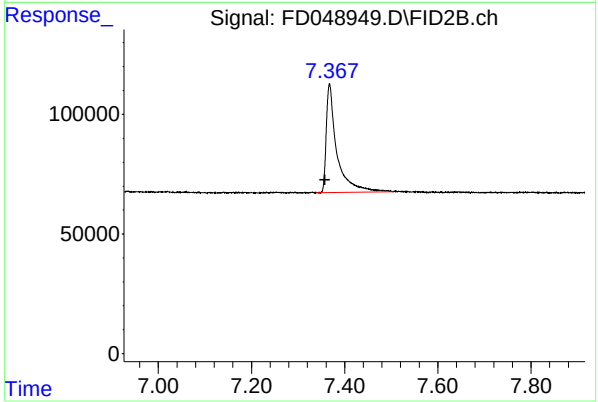
#2 Naphthalene (C11.7)

R.T.: 5.708 min
Delta R.T.: 0.009 min
Response: 759669
Conc: 4.90 ug/ml



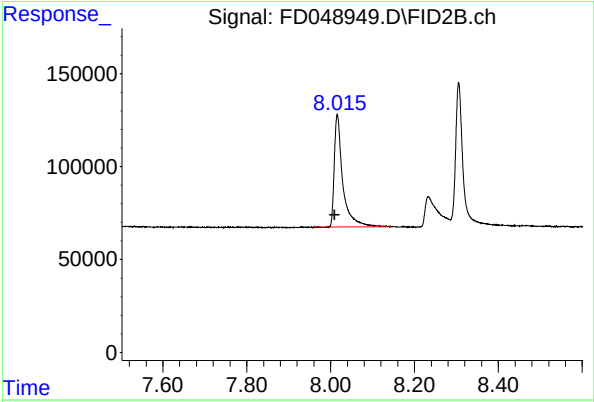
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.756 min
Delta R.T.: 0.011 min
Response: 770079
Conc: 5.01 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.368 min
Delta R.T.: 0.010 min
Response: 717868
Conc: 5.11 ug/ml



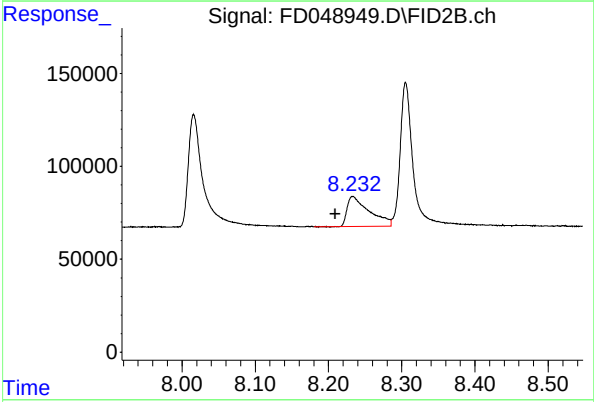
#5 Acenaphthylene (C15.06)

R.T.: 8.016 min
Delta R.T.: 0.007 min
Response: 854846
Conc: 5.34 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

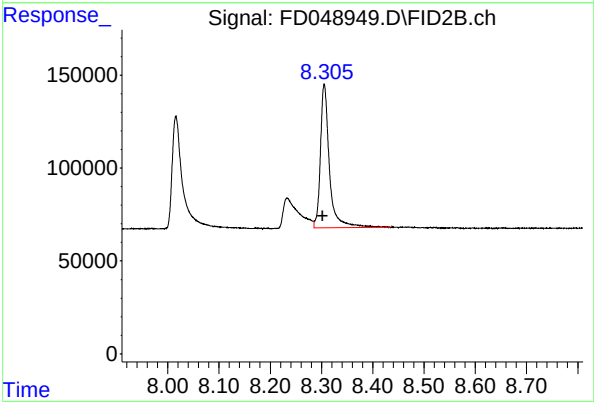
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025



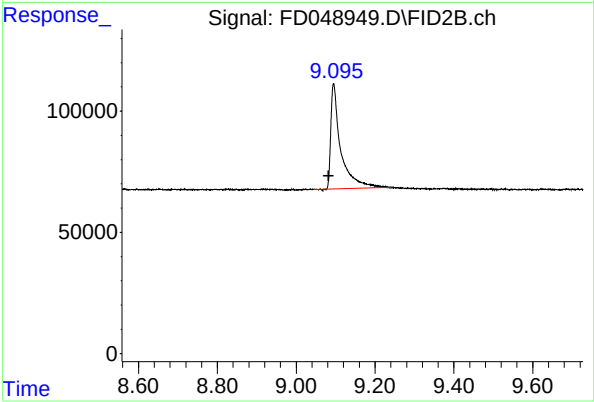
#6 2-Flurobiphenyl (SURR)

R.T.: 8.233 min
Delta R.T.: 0.024 min
Response: 339783
Conc: 3.91 ug/ml



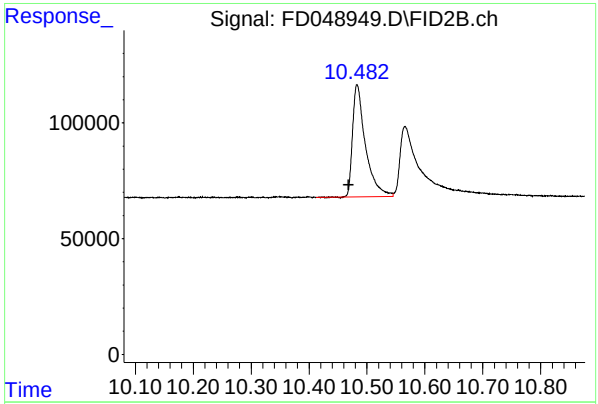
#7 Acenaphthene (C15.5)

R.T.: 8.305 min
Delta R.T.: 0.003 min
Response: 948275
Conc: 5.88 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.095 min
Delta R.T.: 0.012 min
Response: 763400
Conc: 4.91 ug/ml



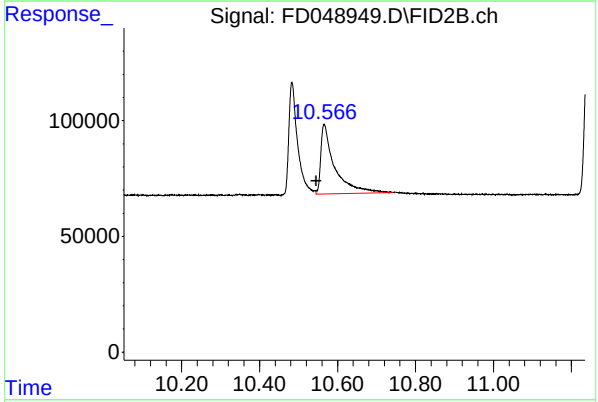
#9 Phenanthrene (C19.36)

R.T.: 10.483 min
Delta R.T.: 0.015 min
Response: 750630
Conc: 4.99 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

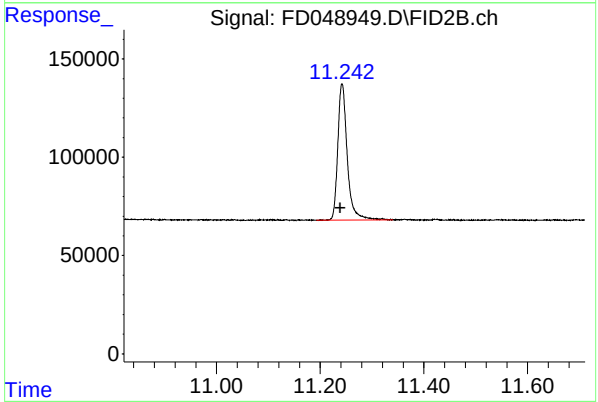
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025



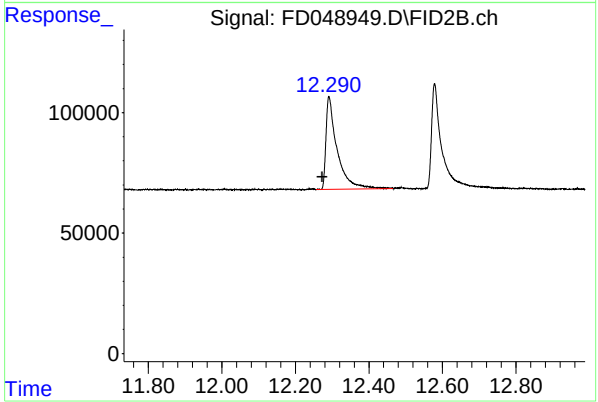
#10 Anthracene (C19.43)

R.T.: 10.566 min
Delta R.T.: 0.020 min
Response: 743883
Conc: 4.91 ug/ml



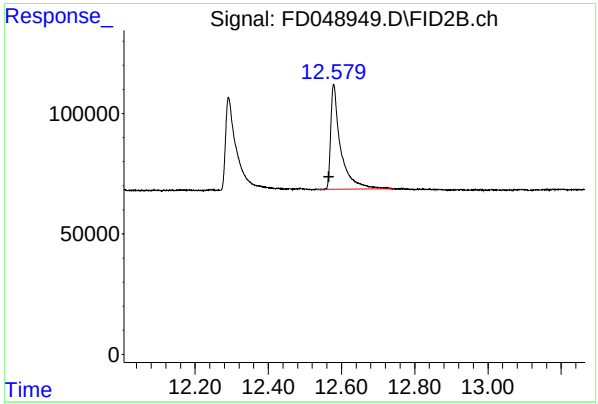
#11 ortho-Terphenyl (SURR)

R.T.: 11.242 min
Delta R.T.: 0.003 min
Response: 879266
Conc: 5.49 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.291 min
Delta R.T.: 0.018 min
Response: 810442
Conc: 5.29 ug/ml



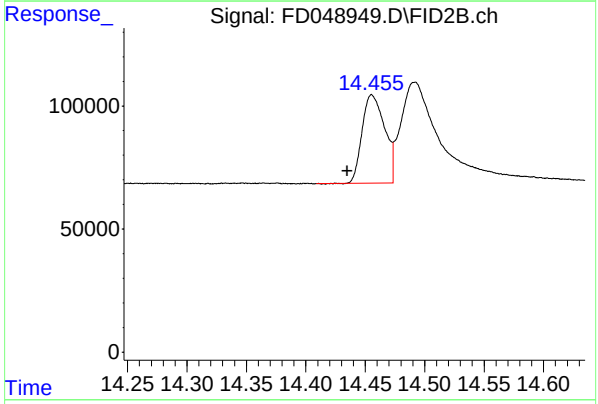
#13 Pyrene (C20.8)

R.T.: 12.579 min
Delta R.T.: 0.014 mi
Response: 825951
Conc: 5.45 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

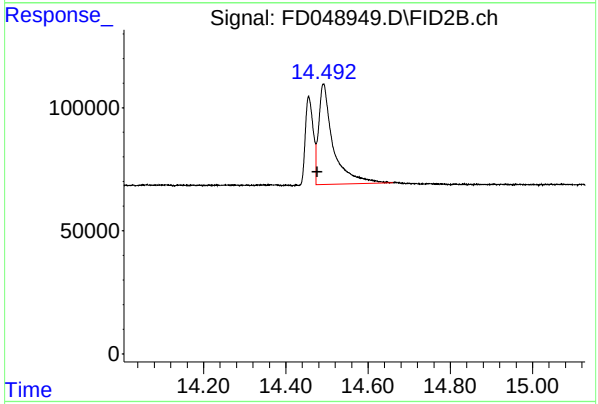
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025



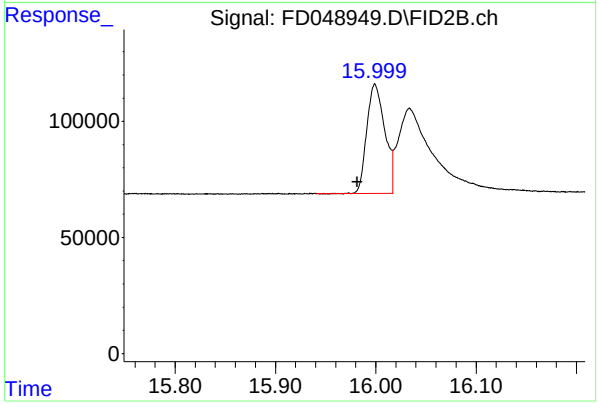
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.456 min
Delta R.T.: 0.021 min
Response: 474873
Conc: 3.53 ug/ml



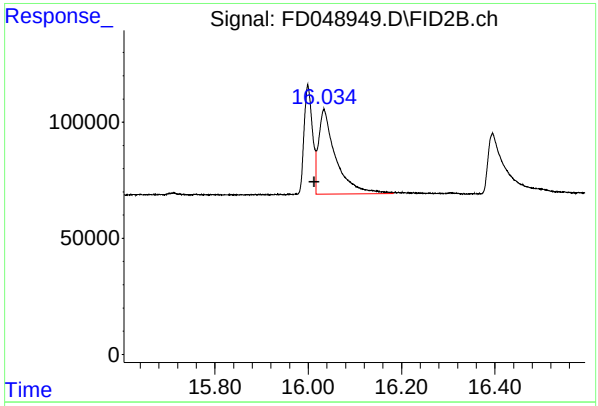
#15 Chrysene (C27.41)

R.T.: 14.492 min
Delta R.T.: 0.015 min
Response: 1000984
Conc: 6.33 ug/ml



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

R.T.: 15.999 min
Delta R.T.: 0.018 min
Response: 587465
Conc: 4.21 ug/ml



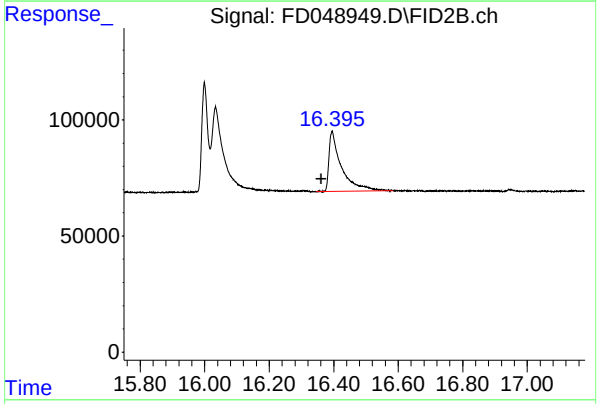
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.034 min
Delta R.T.: 0.021 min
Response: 932809
Conc: 6.09 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

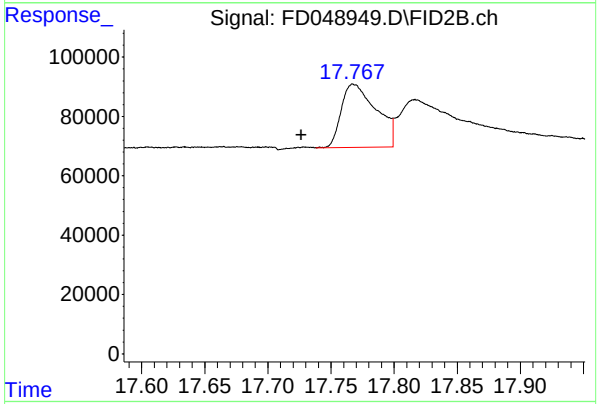
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025



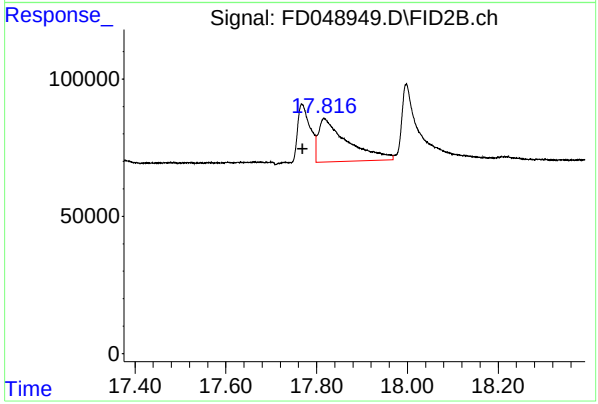
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.395 min
Delta R.T.: 0.033 min
Response: 689943
Conc: 5.07 ug/ml



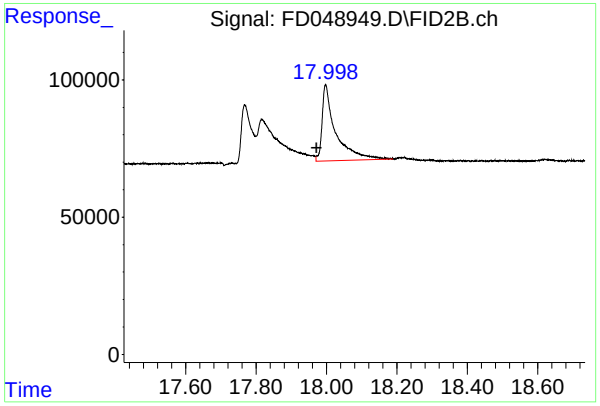
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.768 min
Delta R.T.: 0.041 min
Response: 411157
Conc: 4.14 ug/ml



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

R.T.: 17.816 min
Delta R.T.: 0.047 min
Response: 699298
Conc: 4.82 ug/ml m



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

R.T.: 17.998 min
Delta R.T.: 0.025 mi
Response: 746404
Conc: 5.37 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025

Instrument :
FID_D
LabSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/27/2025
Supervised By :Ankita Jodhani 01/27/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD01242
Data File : FD048949.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 11:10
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.184	4.120	4.304	BB	73910	789589	78.88%	5.095%
2	5.708	5.665	5.864	BB	46903	759669	75.89%	4.902%
3	6.756	6.709	6.927	BV	40283	770079	76.93%	4.969%
4	7.368	7.339	7.504	BB	45492	717868	71.72%	4.632%
5	8.016	7.960	8.144	BB	60468	854846	85.40%	5.516%
6	8.233	8.180	8.285	BV	16107	339783	33.94%	2.192%
7	8.305	8.285	8.435	VB	77409	948275	94.73%	6.119%
8	9.095	9.045	9.240	BB	43393	763400	76.26%	4.926%
9	10.483	10.412	10.545	BV	48278	750630	74.99%	4.843%
10	10.566	10.545	10.742	VB	30142	743883	74.32%	4.800%
11	11.242	11.192	11.340	BB	69350	879266	87.84%	5.673%
12	12.292	12.256	12.465	PB	38358	810442	80.96%	5.229%
13	12.579	12.530	12.740	BB	43505	825951	82.51%	5.329%
14	14.456	14.409	14.473	BV	35912	474873	47.44%	3.064%
15	14.492	14.473	14.660	VB	40862	1000984	100.00%	6.459%
16	15.999	15.940	16.017	BV	47044	587465	58.69%	3.791%
17	16.034	16.017	16.204	VB	36440	919938	91.90%	5.936%
18	16.395	16.345	16.584	BB	25965	689943	68.93%	4.452%
19	17.768	17.738	17.799	PV	21343	411157	41.08%	2.653%
20	17.817	17.799	17.970	VV	15909	713471	71.28%	4.604%
21	17.998	17.970	18.189	VB	27630	746404	74.57%	4.816%
			Sum of corrected areas:			15497915		

Aromatic EPH 012425.M Sat Jan 25 03:48:09 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048950.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 03:39:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.357	2887094	20.286 ug/ml
Spiked Amount	50.000		Recovery =	40.57%
6) S	2-Flurobiphenyl (SURR)	8.209	1813337	21.311 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.62%
11) S	ortho-Terphenyl (SURR)	11.239	3311463	20.136 ug/ml
Spiked Amount	50.000		Recovery =	40.27%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.180	3137844	20.356 ug/ml
2) T	Naphthalene (C11.7)	5.698	3187176	20.390 ug/ml
3) T	2-Methylnaphthalene (...	6.744	3164394	20.398 ug/ml
5) T	Acenaphthylene (C15.06)	8.009	3303580	20.200 ug/ml
7) T	Acenaphthene (C15.5)	8.302	3339705	19.884 ug/ml
8) T	Flouorene (C16.55)	9.082	3225268	20.618 ug/ml
9) T	Phenanthrene (C19.36)	10.469	3110469	20.423 ug/ml
10) T	Anthracene (C19.43)	10.546	3128088	20.536 ug/ml
12) T	Fluoranthene (C21.85)	12.273	3227346	20.518 ug/ml
13) T	Pyrene (C20.8)	12.565	3146895	19.976 ug/ml
14) T	Benzo[a]anthracene (C...	14.435	2842185	22.087 ug/ml
15) T	Chrysene (C27.41)	14.476	3307605	19.560 ug/ml
16) T	benzo[b]fluoranthene ...	15.981	2946816	21.568 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.013	3210095	19.821 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.362	2755524	19.799 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.727	2116534	20.294 ug/ml
20) T	Dibenz[a,h]anthracene...	17.768	3065764	21.476 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.973	2893272	20.284 ug/ml

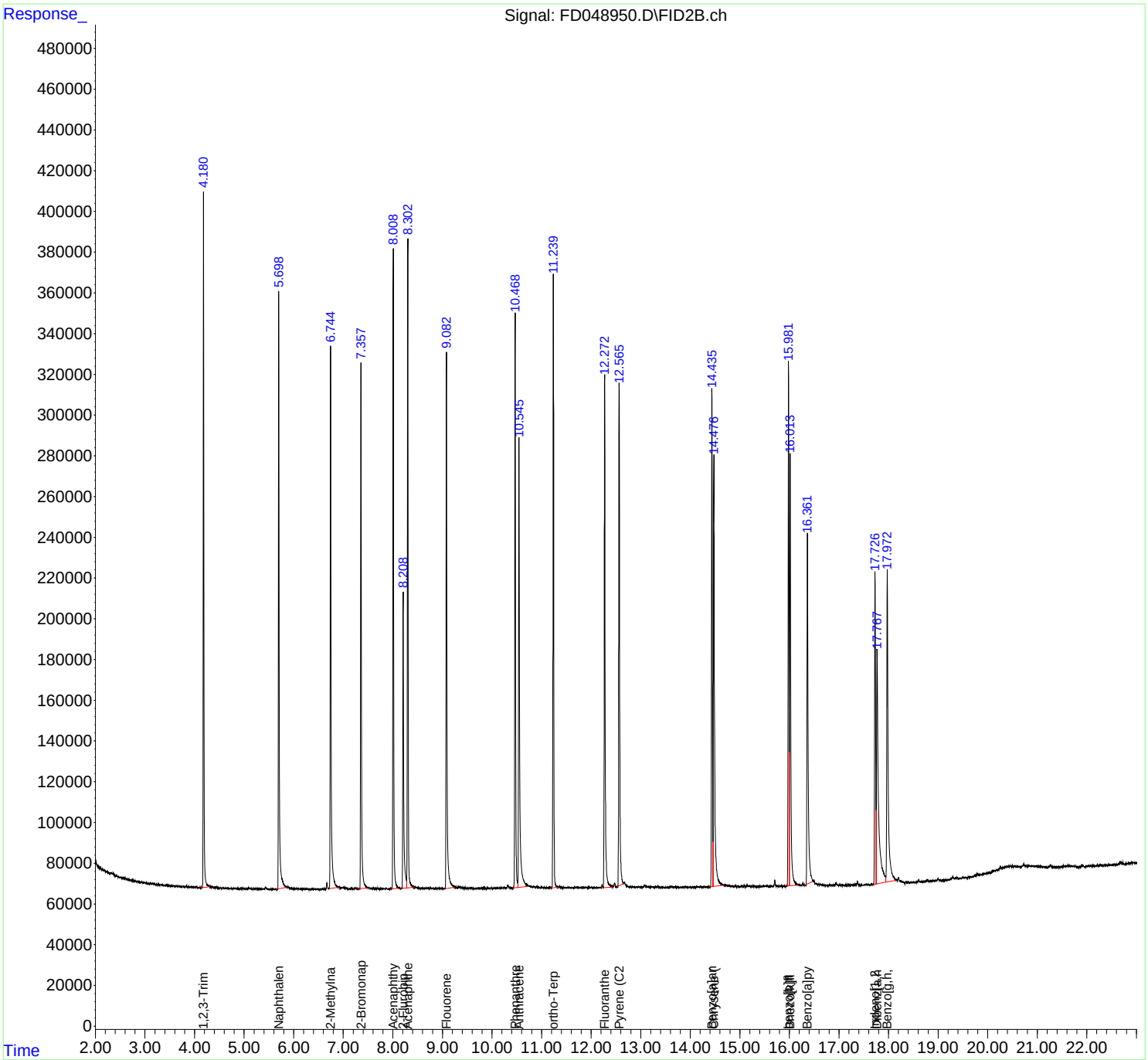
(f)=RT Delta > 1/2 Window (m)=manual int.

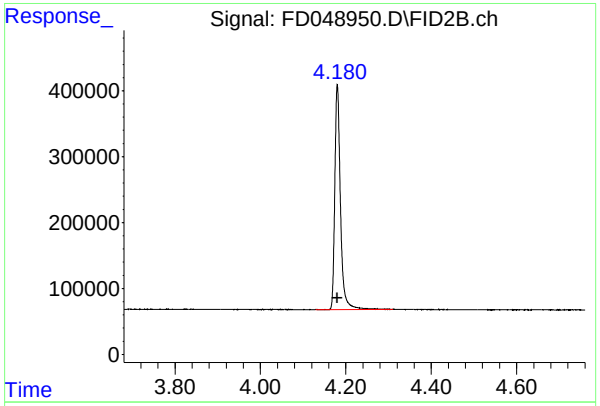
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048950.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 25 03:39:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

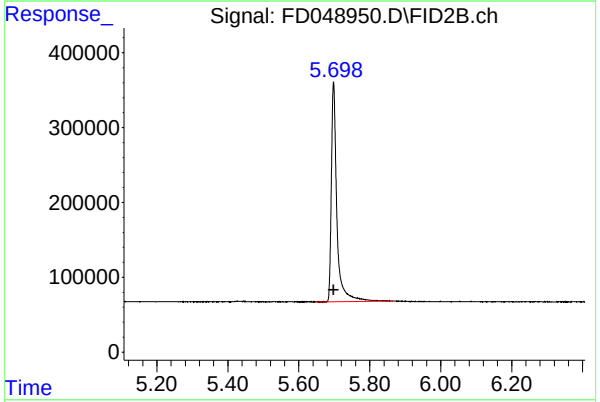




#1 1,2,3-Trimethylbenzene (C10.1)

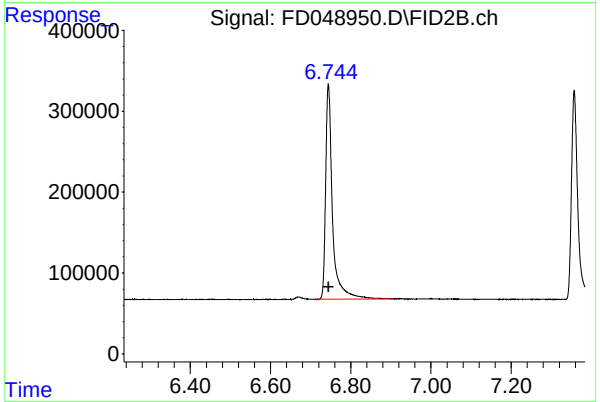
R.T.: 4.180 min
Delta R.T.: 0.000 min
Response: 3137844
Conc: 20.36 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



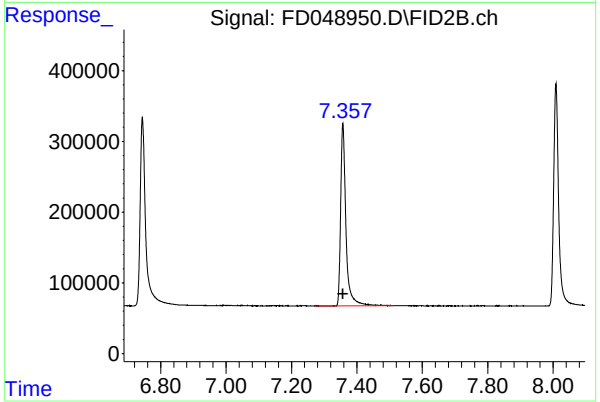
#2 Naphthalene (C11.7)

R.T.: 5.698 min
Delta R.T.: 0.000 min
Response: 3187176
Conc: 20.39 ug/ml



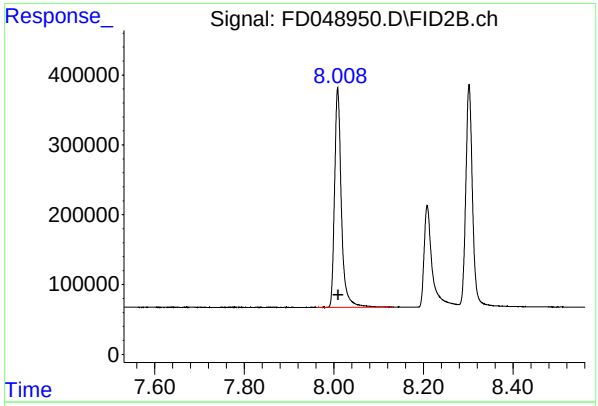
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.744 min
Delta R.T.: 0.000 min
Response: 3164394
Conc: 20.40 ug/ml



#4 2-Bromonaphthalene (SURR)

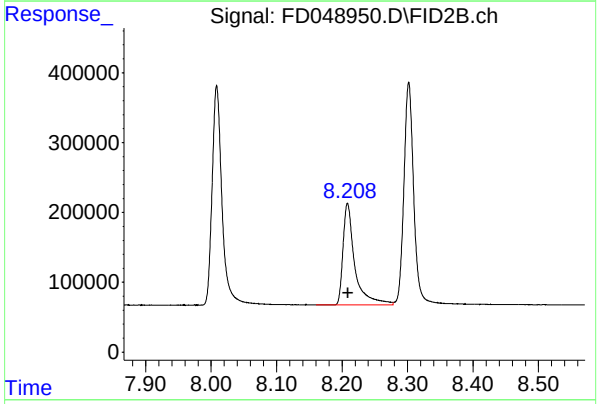
R.T.: 7.357 min
Delta R.T.: 0.000 min
Response: 2887094
Conc: 20.29 ug/ml



#5 Acenaphthylene (C15.06)

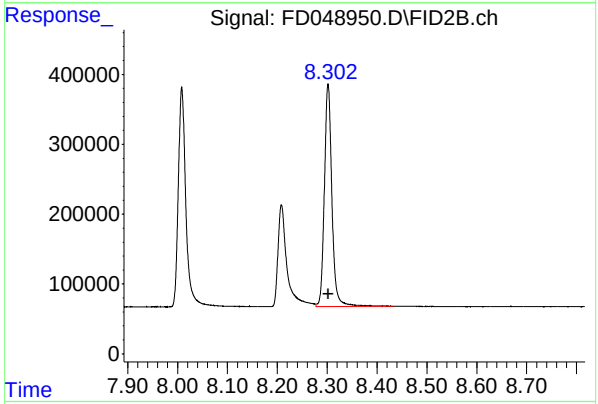
R.T.: 8.009 min
Delta R.T.: 0.000 min
Response: 3303580
Conc: 20.20 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



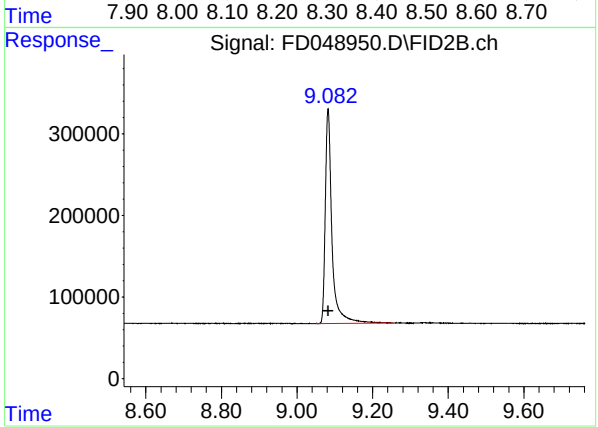
#6 2-Flurobiphenyl (SURR)

R.T.: 8.209 min
Delta R.T.: 0.000 min
Response: 1813337
Conc: 21.31 ug/ml



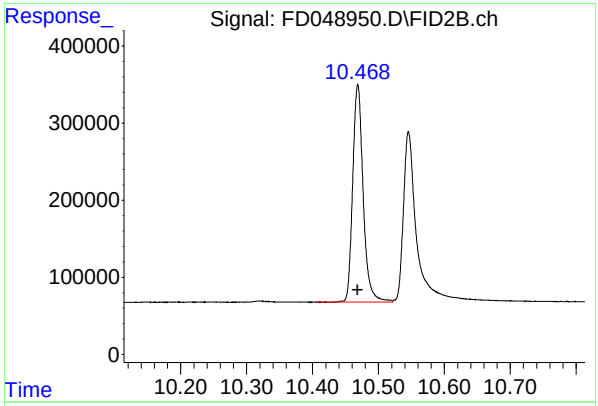
#7 Acenaphthene (C15.5)

R.T.: 8.302 min
Delta R.T.: 0.000 min
Response: 3339705
Conc: 19.88 ug/ml



#8 Flouorene (C16.55)

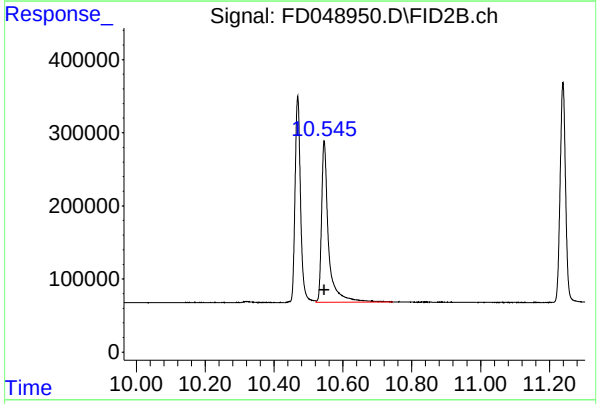
R.T.: 9.082 min
Delta R.T.: 0.000 min
Response: 3225268
Conc: 20.62 ug/ml



#9 Phenanthrene (C19.36)

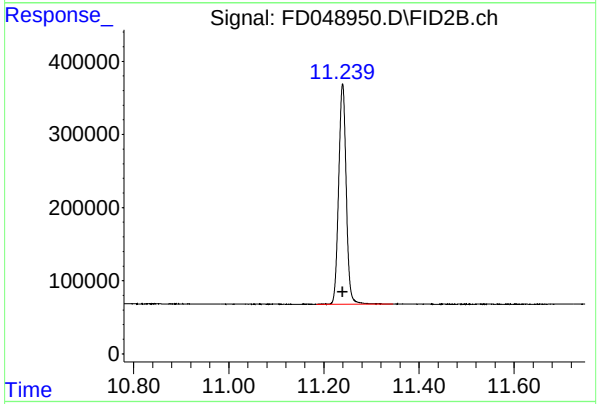
R.T.: 10.469 min
Delta R.T.: 0.000 min
Response: 3110469
Conc: 20.42 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



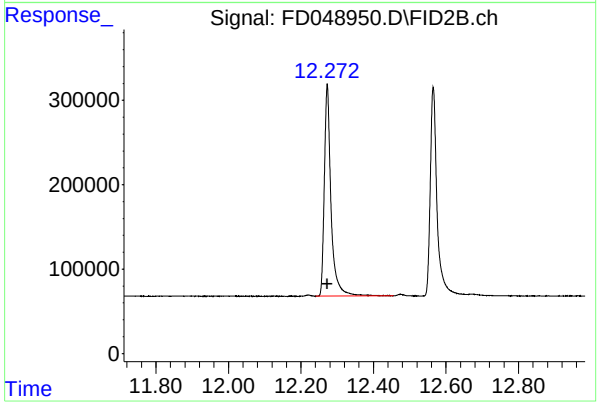
#10 Anthracene (C19.43)

R.T.: 10.546 min
Delta R.T.: 0.000 min
Response: 3128088
Conc: 20.54 ug/ml



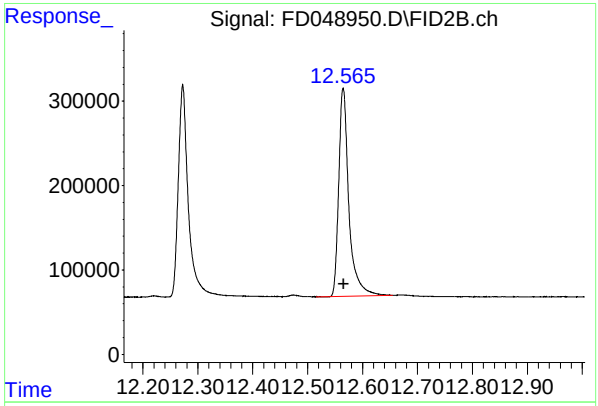
#11 ortho-Terphenyl (SURR)

R.T.: 11.239 min
Delta R.T.: 0.000 min
Response: 3311463
Conc: 20.14 ug/ml



#12 Fluoranthene (C21.85)

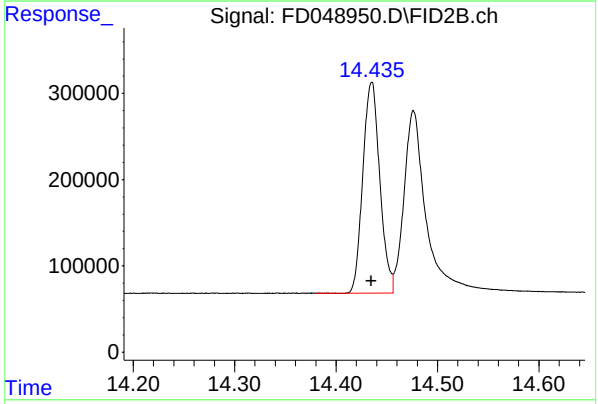
R.T.: 12.273 min
Delta R.T.: 0.000 min
Response: 3227346
Conc: 20.52 ug/ml



#13 Pyrene (C20.8)

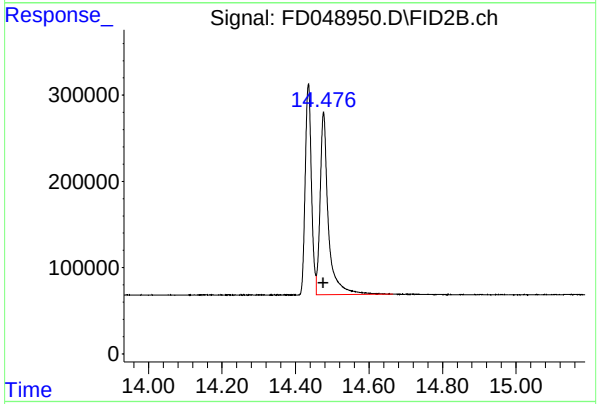
R.T.: 12.565 min
Delta R.T.: 0.000 min
Response: 3146895
Conc: 19.98 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



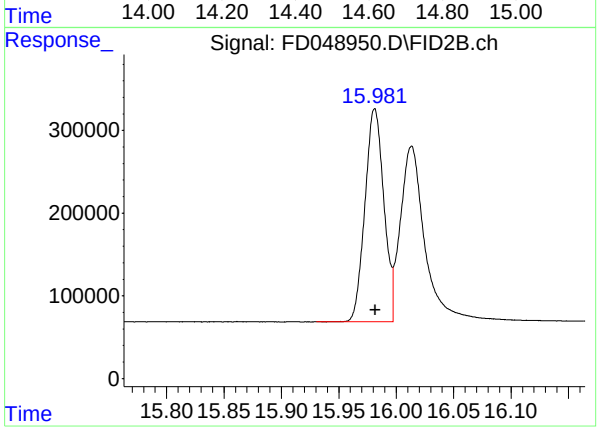
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.435 min
Delta R.T.: 0.000 min
Response: 2842185
Conc: 22.09 ug/ml



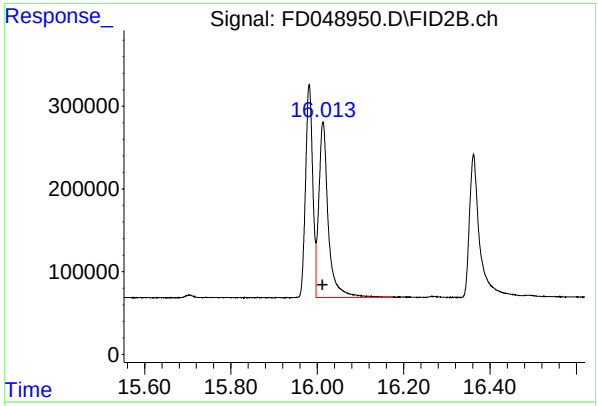
#15 Chrysene (C27.41)

R.T.: 14.476 min
Delta R.T.: 0.000 min
Response: 3307605
Conc: 19.56 ug/ml



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

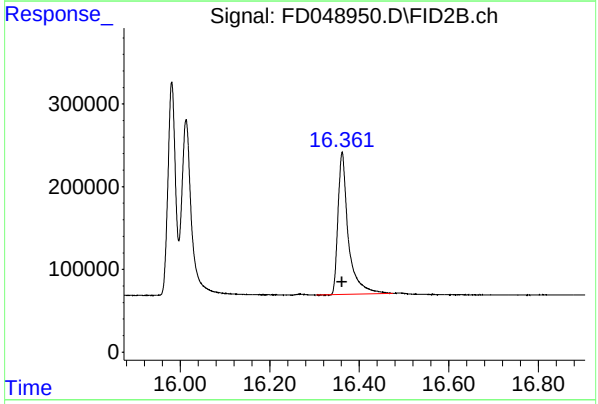
R.T.: 15.981 min
Delta R.T.: 0.000 min
Response: 2946816
Conc: 21.57 ug/ml



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

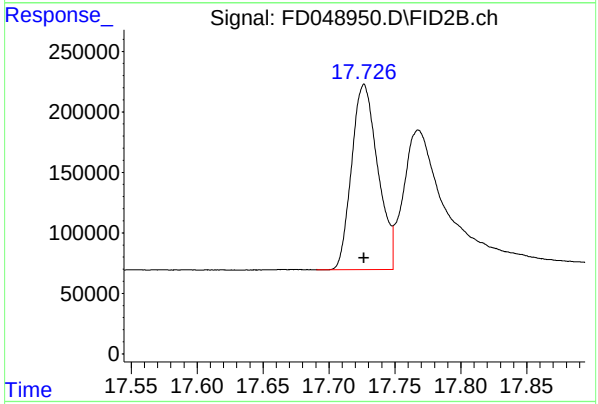
R.T.: 16.013 min
Delta R.T.: 0.000 min
Response: 3210095
Conc: 19.82 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



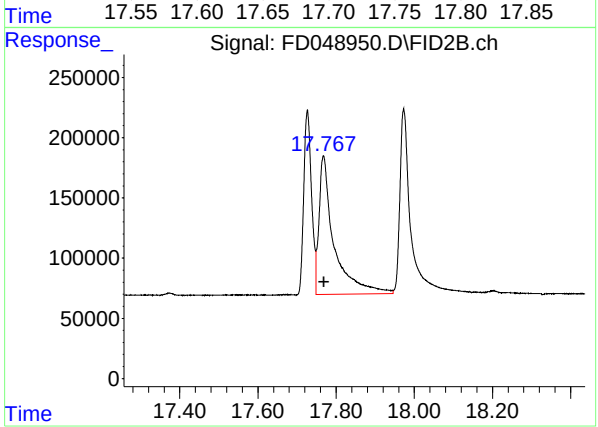
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.362 min
Delta R.T.: 0.000 min
Response: 2755524
Conc: 19.80 ug/ml



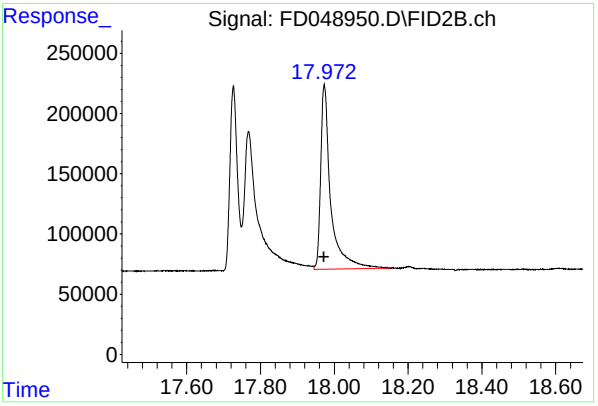
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.727 min
Delta R.T.: 0.000 min
Response: 2116534
Conc: 20.29 ug/ml



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

R.T.: 17.768 min
Delta R.T.: -0.001 min
Response: 3065764
Conc: 21.48 ug/ml



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

R.T.: 17.973 min
Delta R.T.: 0.000 mi
Response: 2893272
Conc: 20.28 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012425AR\
Data File : FD048950.D
Signal(s) : FID2B.ch
Acq On : 24 Jan 2025 11:46
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.180	4.130	4.310	BB	341313	3137844	93.96%	4.971%
2	5.698	5.649	5.865	BB	292567	3187176	95.43%	5.049%
3	6.744	6.714	6.905	BB	266178	3164394	94.75%	5.013%
4	7.357	7.275	7.510	BB	258041	2887094	86.45%	4.574%
5	8.009	7.960	8.132	BB	313828	3303580	98.92%	5.234%
6	8.209	8.160	8.278	BV	145410	1813337	54.30%	2.873%
7	8.302	8.278	8.432	VB	318754	3339705	100.00%	5.291%
8	9.082	9.050	9.254	BB	263286	3225268	96.57%	5.110%
9	10.469	10.405	10.522	BV	282049	3110469	93.14%	4.928%
10	10.546	10.522	10.745	VB	220641	3128088	93.66%	4.956%
11	11.239	11.184	11.345	BB	301119	3311463	99.15%	5.246%
12	12.273	12.242	12.454	PB	250955	3227346	96.64%	5.113%
13	12.565	12.515	12.655	BV	246736	3146895	94.23%	4.986%
14	14.435	14.380	14.456	BV	244706	2842185	85.10%	4.503%
15	14.476	14.456	14.665	VB	211452	3307605	99.04%	5.240%
16	15.981	15.930	15.997	BV	257651	2946816	88.24%	4.669%
17	16.013	15.997	16.175	VB	212277	3210095	96.12%	5.086%
18	16.362	16.304	16.475	BV	172243	2755524	82.51%	4.366%
19	17.727	17.690	17.749	BV	153458	2116534	63.37%	3.353%
20	17.768	17.749	17.945	VV	115186	3065764	91.80%	4.857%
21	17.973	17.945	18.154	VV	152571	2893272	86.63%	4.584%
			Sum of corrected areas:			63120453		

Aromatic EPH 012425.M Sat Jan 25 03:48:24 2025

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

Inital Calibration Report for SequenceID : FF011425AR

AreaCount

Parameter Range	FF015238.D	FF015239.D	FF015240.D	FF015241.D	FF015242.D	
Aromatic C10-C12	30965620.000	15769068.000	6560469.000	3276731.000	1614787.000	
Aromatic C12-C16	47800506.000	24008637.000	9928159.000	4881993.000	2310555.000	
Aromatic C16-C21	60600751.000	30656802.000	12907218.000	6448234.000	3121870.000	
Aromatic C21-C36	124937823.000	63025276.000	26734403.000	13637803.000	6706840.000	
Aromatic EPH	264304700.000	133459783.000	56130249.000	28244761.000	13754052.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	160369.151	2.502				
Aromatic C12-C16	160326.4033332	2.662				
Aromatic C16-C21	156685.0925	2.87				
Aromatic C21-C36	145594.4933328	3.95				
Aromatic EPH	152156.0178884	2.948				

Concentration

Parameter Range	FF015238.D	FF015239.D	FF015240.D	FF015241.D	FF015242.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	FF015238.D	FF015239.D	FF015240.D	FF015241.D	FF015242.D	
Aromatic C10-C12	154828.100000	157690.680000	164011.725000	163836.550000	161478.700000	
Aromatic C12-C16	159335.020000	160057.580000	165469.316666	162733.100000	154037.000000	
Aromatic C16-C21	151501.877500	153284.010000	161340.225000	161205.850000	156093.500000	
Aromatic C21-C36	138819.803333	140056.168888	148524.461111	151531.144444	149040.888888	
Aromatic EPH	146835.944444	148288.647777	155917.358333	156915.338888	152822.800000	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015238.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 18:45
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 15 07:01:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.996	13473334	98.656 ug/ml
Spiked Amount	50.000		Recovery =	197.31%
6) S	2-Flurobiphenyl (SURR)	8.870	9124066	104.358 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	208.72%#
11) S	ortho-Terphenyl (SURR)	11.933	16061243	91.027 ug/ml
Spiked Amount	50.000		Recovery =	182.05%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.607	15267468	93.380 ug/ml
2) T	Naphthalene (C11.7)	6.276	15698152	95.414 ug/ml
3) T	2-Methylnaphthalene (...	7.371	15952296	97.360 ug/ml
5) T	Acenaphthylene (C15.06)	8.672	15815959	96.337 ug/ml
7) T	Acenaphthene (C15.5)	8.973	16032251	95.211 ug/ml
8) T	Flouorene (C16.55)	9.761	15744142	97.031 ug/ml
9) T	Phenanthrene (C19.36)	11.166	15446040	93.999 ug/ml
10) T	Anthracene (C19.43)	11.242	14086098	92.718 ug/ml
12) T	Fluoranthene (C21.85)	12.989	15513262	91.766 ug/ml
13) T	Pyrene (C20.8)	13.288	15324471	91.843 ug/ml
14) T	Benzo[a]anthracene (C...	15.167	14342524	93.776 ug/ml
15) T	Chrysene (C27.41)	15.216	14584566	92.516 ug/ml
16) T	benzo[b]fluoranthene ...	16.728	14386286	94.790 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.770	13588027	94.915 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.112	13682965	94.650 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.485	13013123	101.563 ug/ml
20) T	Dibenz[a,h]anthracene...	18.526	12764611	84.027 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.748	13062459	94.968 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015238.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 18:45
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 71 Sample Multiplier: 1

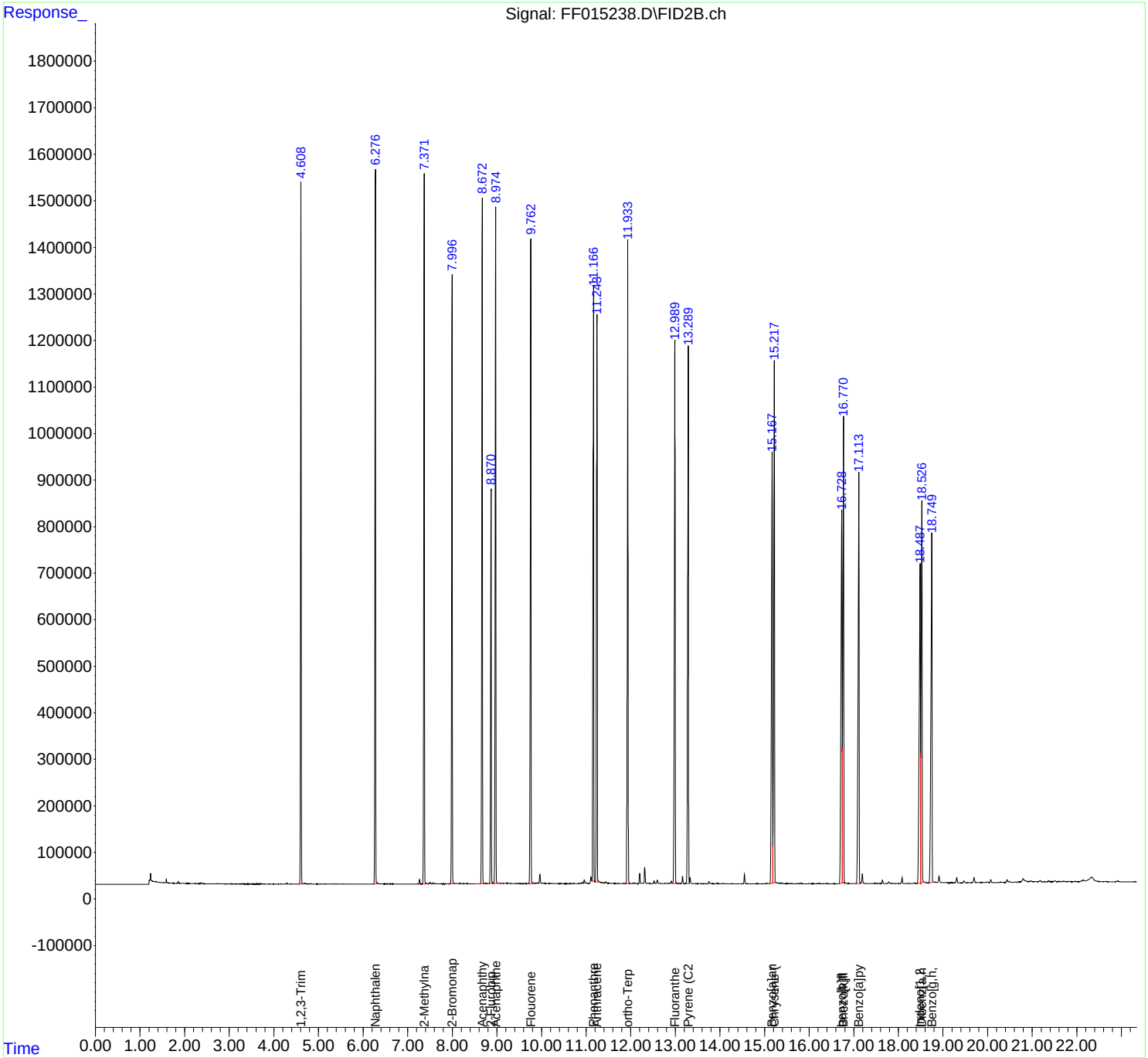
Integration File: autoint1.e
Quant Time: Jan 15 07:01:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

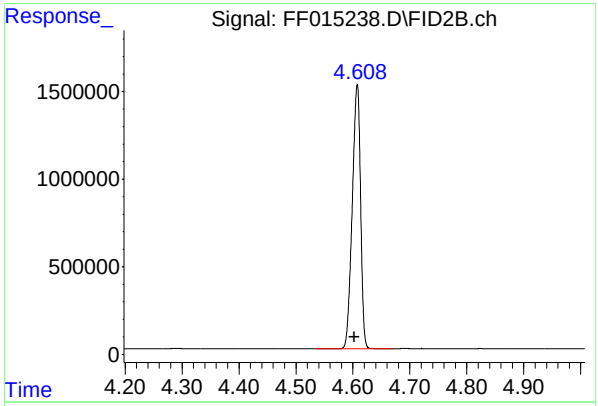
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025





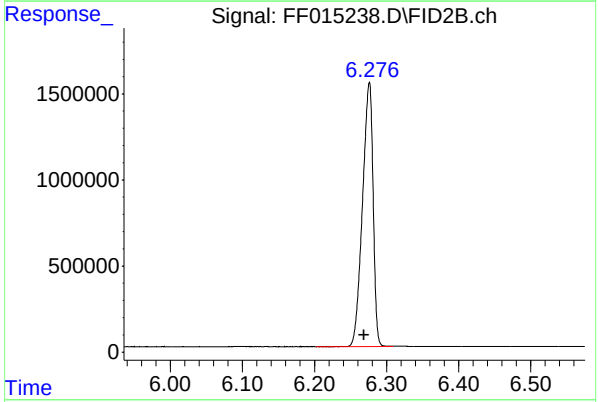
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.607 min
Delta R.T.: 0.005 min
Response: 15267468
Conc: 93.38 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

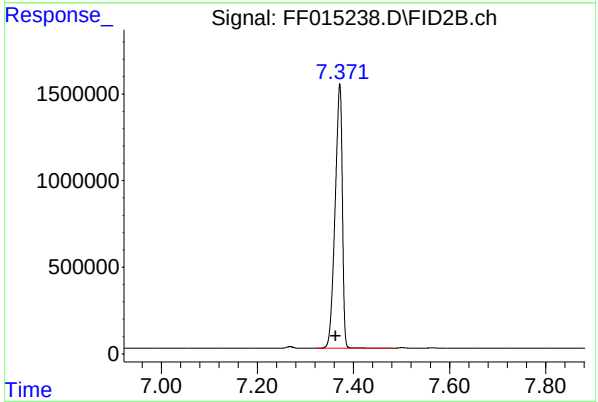
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



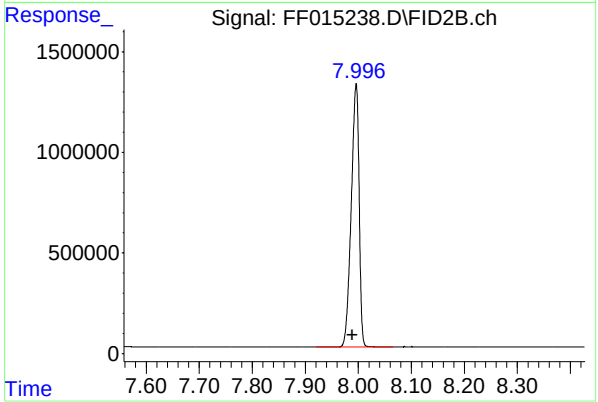
#2 Naphthalene (C11.7)

R.T.: 6.276 min
Delta R.T.: 0.007 min
Response: 15698152
Conc: 95.41 ug/ml



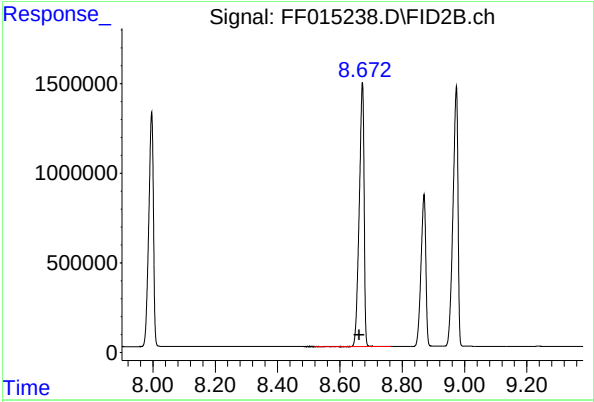
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.371 min
Delta R.T.: 0.008 min
Response: 15952296
Conc: 97.36 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.996 min
Delta R.T.: 0.007 min
Response: 13473334
Conc: 98.66 ug/ml



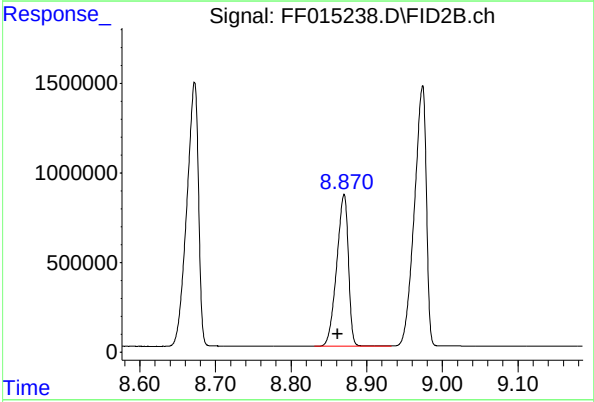
#5 Acenaphthylene (C15.06)

R.T.: 8.672 min
Delta R.T.: 0.010 min
Response: 15815959
Conc: 96.34 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

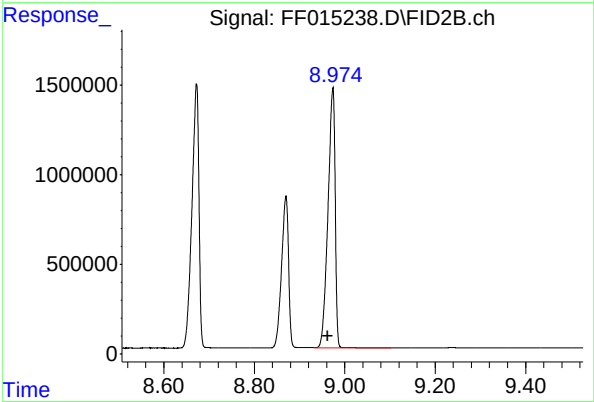
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



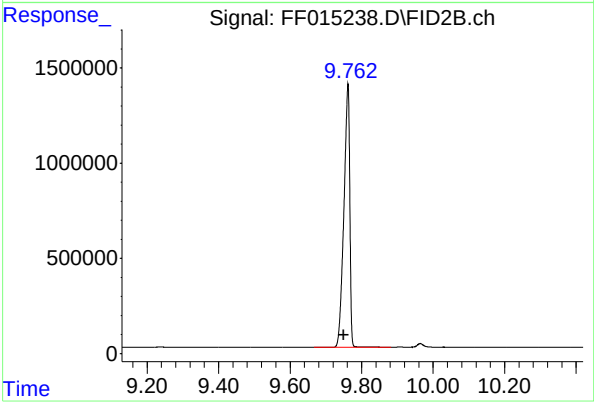
#6 2-Flurobiphenyl (SURR)

R.T.: 8.870 min
Delta R.T.: 0.008 min
Response: 9124066
Conc: 104.36 ug/ml



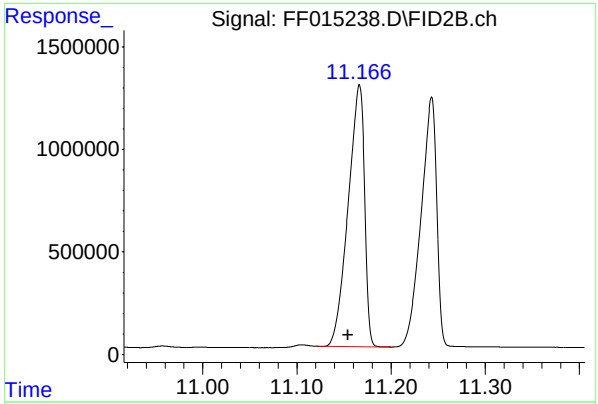
#7 Acenaphthene (C15.5)

R.T.: 8.973 min
Delta R.T.: 0.011 min
Response: 16032251
Conc: 95.21 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.761 min
Delta R.T.: 0.012 min
Response: 15744142
Conc: 97.03 ug/ml



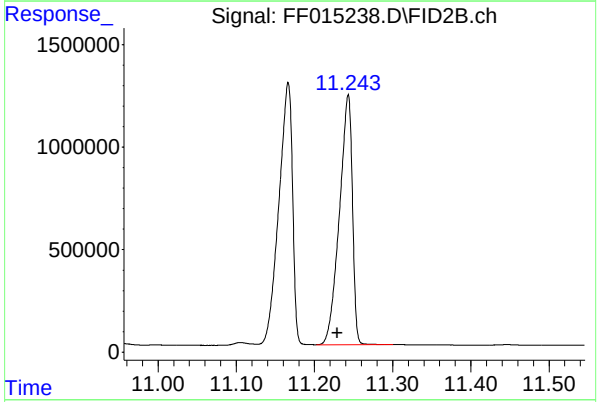
#9 Phenanthrene (C19.36)

R.T.: 11.166 min
Delta R.T.: 0.011 min
Response: 15446040
Conc: 94.00 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

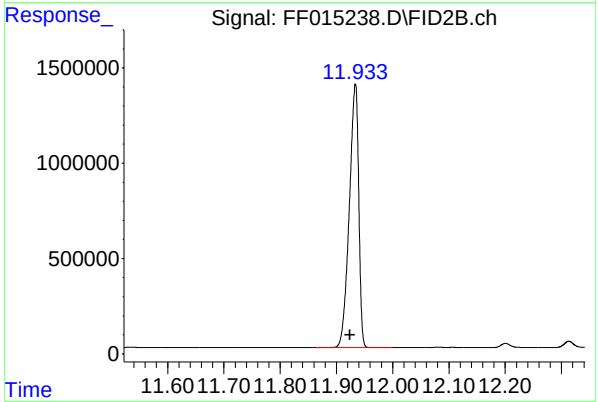
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



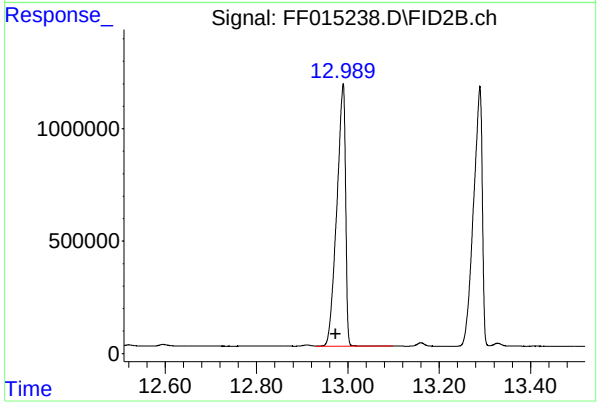
#10 Anthracene (C19.43)

R.T.: 11.242 min
Delta R.T.: 0.013 min
Response: 14086098
Conc: 92.72 ug/ml



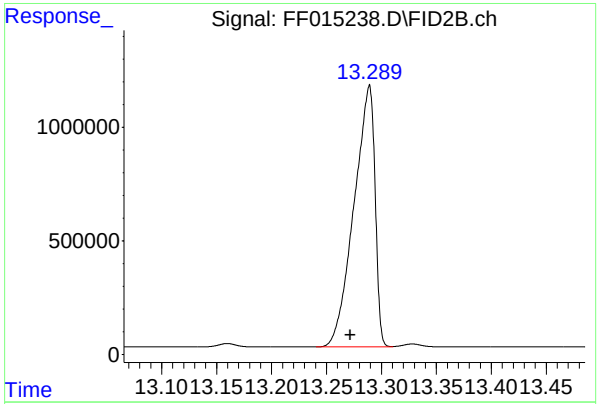
#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.009 min
Response: 16061243
Conc: 91.03 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.989 min
Delta R.T.: 0.015 min
Response: 15513262
Conc: 91.77 ug/ml



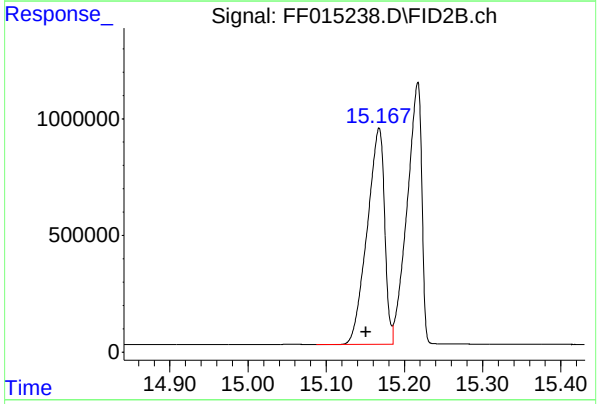
#13 Pyrene (C20.8)

R.T.: 13.288 min
Delta R.T.: 0.017 min
Response: 15324471
Conc: 91.84 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

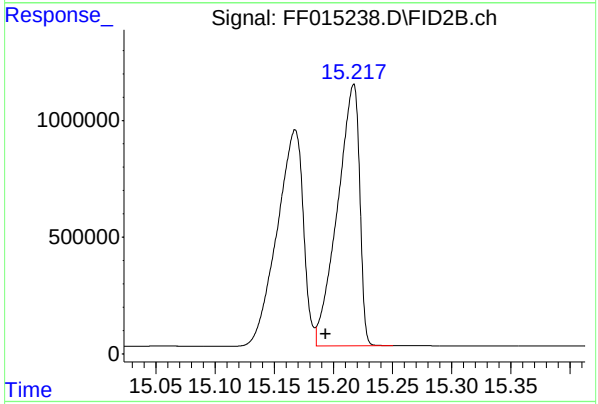
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



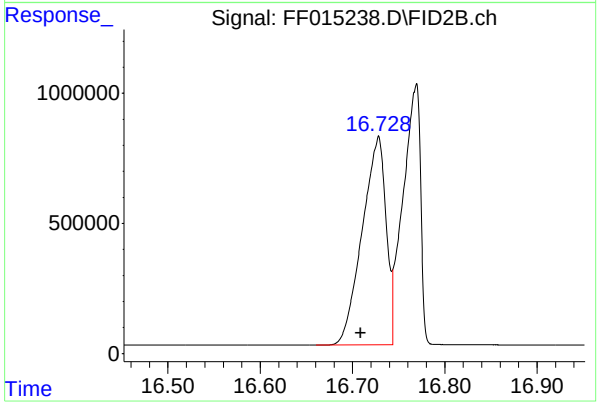
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.167 min
Delta R.T.: 0.016 min
Response: 14342524
Conc: 93.78 ug/ml



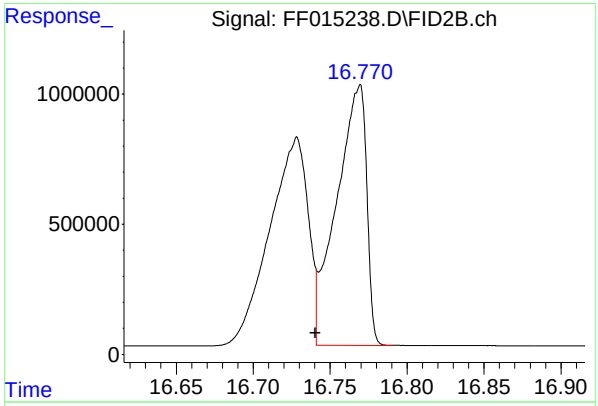
#15 Chrysene (C27.41)

R.T.: 15.216 min
Delta R.T.: 0.023 min
Response: 14584566
Conc: 92.52 ug/ml



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

R.T.: 16.728 min
Delta R.T.: 0.019 min
Response: 14386286
Conc: 94.79 ug/ml



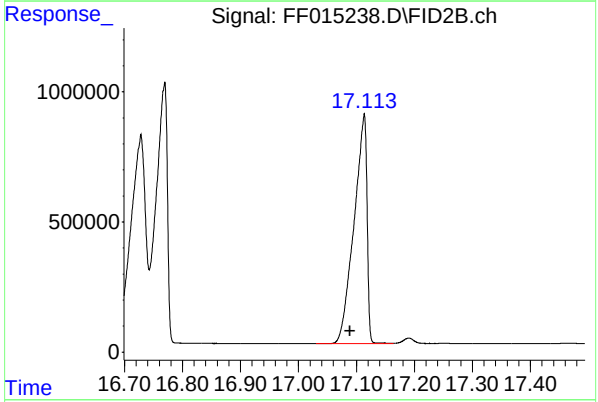
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.770 min
Delta R.T.: 0.029 min
Response: 13588027
Conc: 94.91 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

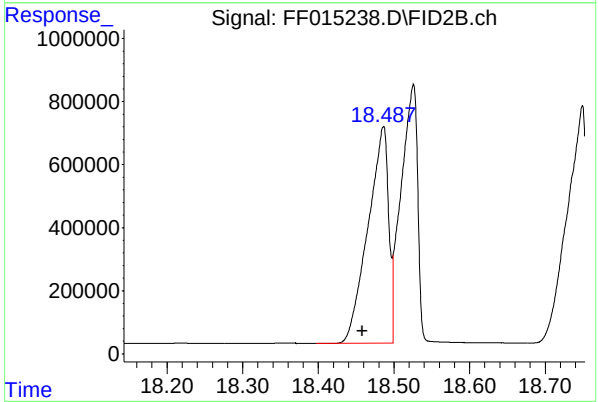
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



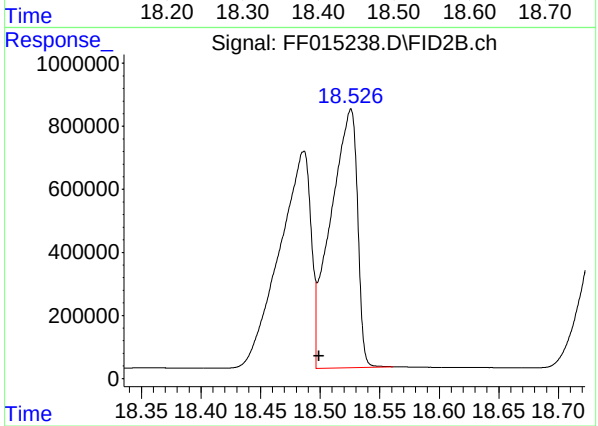
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.112 min
Delta R.T.: 0.023 min
Response: 13682965
Conc: 94.65 ug/ml



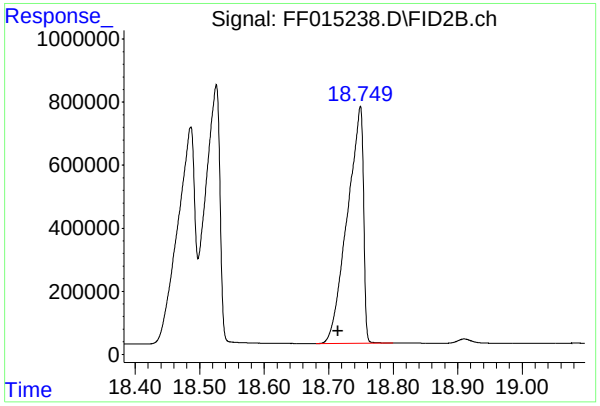
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.485 min
Delta R.T.: 0.027 min
Response: 13013123
Conc: 101.56 ug/ml



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

R.T.: 18.526 min
Delta R.T.: 0.027 min
Response: 12764611
Conc: 84.03 ug/ml m



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

R.T.: 18.748 min
Delta R.T.: 0.033 mi
Response: 13062459
Conc: 94.97 ug/m

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

Instrument :
FID_F
LabSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01142
Data File : FF015238.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 18:45
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 011425.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	4.607	4.535	4.670	BV	1507750	15267468	95.06%	5.053%
2	6.276	6.202	6.309	BV	1531123	15698152	97.74%	5.196%
3	7.371	7.322	7.482	BV	1517404	15952296	99.32%	5.280%
4	7.996	7.920	8.065	BV	1303829	13473334	83.89%	4.459%
5	8.672	8.517	8.764	BB	1480790	15815959	98.47%	5.235%
6	8.870	8.830	8.932	BV	853395	9124066	56.81%	3.020%
7	8.973	8.932	9.102	VB	1457328	16032251	99.82%	5.306%
8	9.761	9.667	9.882	BV	1362874	15744142	98.03%	5.211%
9	11.166	11.120	11.202	BV	1275092	15446040	96.17%	5.112%
10	11.242	11.202	11.300	PBA	1214210	14086098	87.70%	4.662%
11	11.933	11.864	12.000	BB	1389947	16061243	100.00%	5.316%
12	12.989	12.930	13.099	VV	1159133	15513262	96.59%	5.134%
13	13.288	13.240	13.310	BV	1153537	15324471	95.41%	5.072%
14	15.167	15.087	15.185	PV	926818	14342524	89.30%	4.747%
15	15.216	15.185	15.250	VBA	1110163	14584566	90.81%	4.827%
16	16.728	16.660	16.744	BV	791620	14386286	89.57%	4.761%
17	16.768	16.744	16.790	VBA	981736	13187826	82.11%	4.365%
18	17.112	17.030	17.163	BV	865108	13682965	85.19%	4.529%
19	18.485	18.397	18.499	BV	684892	12953890	80.65%	4.287%
20	18.525	18.499	18.560	VBA	818313	12402800	77.22%	4.105%
21	18.748	18.680	18.800	BBA	738989	13062459	81.33%	4.323%
			Sum of corrected areas:			302142098		

Aromatic EPH 011425.M Wed Jan 15 05:51:55 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015239.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 19:13
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: Jan 15 07:01:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.991	6706329	49.106 ug/ml
Spiked Amount	50.000		Recovery =	98.21%
6) S	2-Flurobiphenyl (SURR)	8.864	4458085	50.990 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	101.98%
11) S	ortho-Terphenyl (SURR)	11.927	8219088	46.581 ug/ml
Spiked Amount	50.000		Recovery =	93.16%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.603	7827551	47.876 ug/ml
2) T	Naphthalene (C11.7)	6.271	7941517	48.269 ug/ml
3) T	2-Methylnaphthalene (...	7.366	7979495	48.700 ug/ml
5) T	Acenaphthylene (C15.06)	8.665	7944180	48.389 ug/ml
7) T	Acenaphthene (C15.5)	8.966	8084962	48.014 ug/ml
8) T	Flouorene (C16.55)	9.754	7889867	48.625 ug/ml
9) T	Phenanthrene (C19.36)	11.159	7798615	47.459 ug/ml
10) T	Anthracene (C19.43)	11.234	7158533	47.119 ug/ml
12) T	Fluoranthene (C21.85)	12.980	7908397	46.781 ug/ml
13) T	Pyrene (C20.8)	13.279	7809787	46.806 ug/ml
14) T	Benzo[a]anthracene (C...	15.158	7255394	47.438 ug/ml
15) T	Chrysene (C27.41)	15.203	7417176	47.050 ug/ml
16) T	benzo[b]fluoranthene ...	16.716	7212940	47.525 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.752	6761403	47.229 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.097	6941461	48.017 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.469	6290650	49.096 ug/ml
20) T	Dibenz[a,h]anthracene...	18.508	6651715	43.787 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.728	6586140	47.883 ug/ml

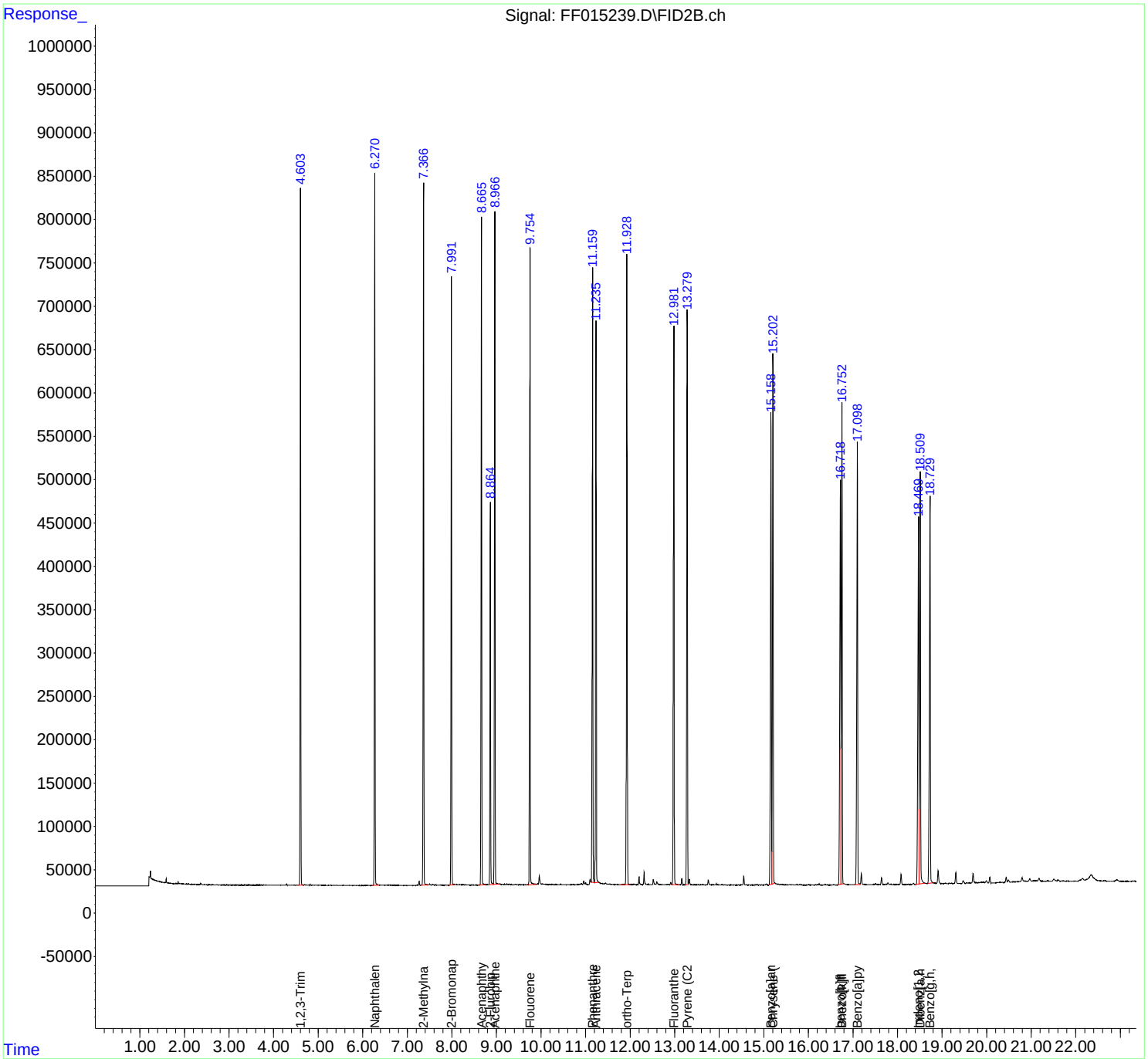
(f)=RT Delta > 1/2 Window (m)=manual int.

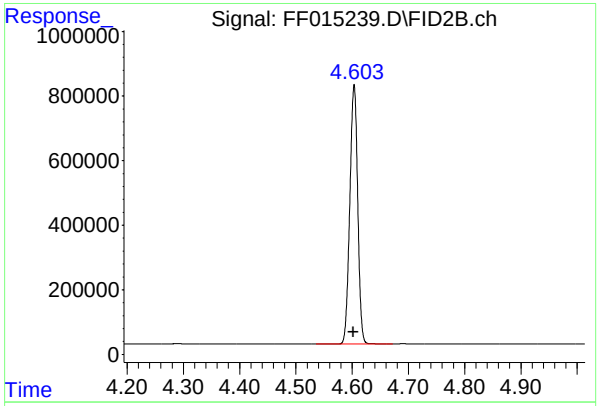
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015239.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 19:13
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 15 07:01:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

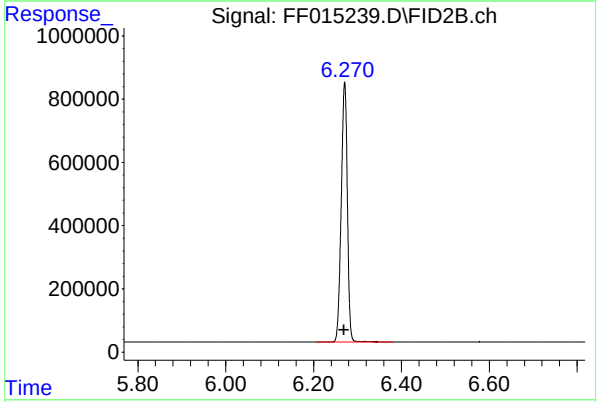




#1 1,2,3-Trimethylbenzene (C10.1)

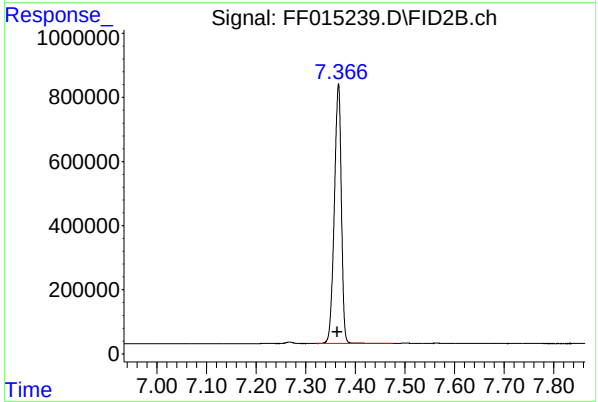
R.T.: 4.603 min
Delta R.T.: 0.001 min
Response: 7827551
Conc: 47.88 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



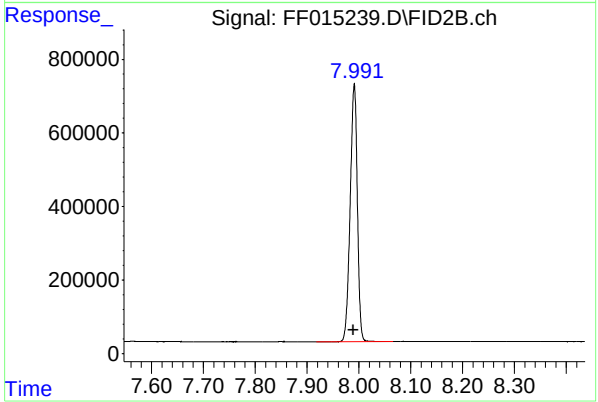
#2 Naphthalene (C11.7)

R.T.: 6.271 min
Delta R.T.: 0.002 min
Response: 7941517
Conc: 48.27 ug/ml



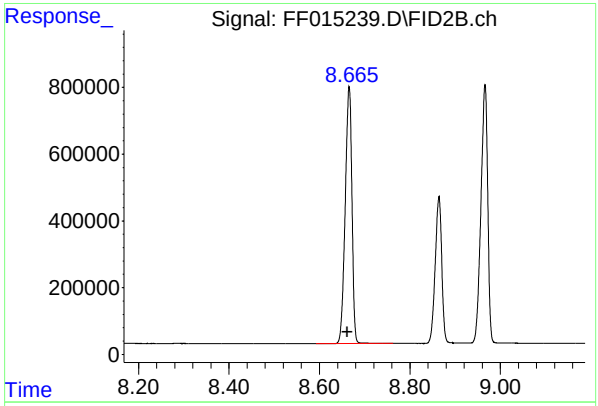
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.366 min
Delta R.T.: 0.003 min
Response: 7979495
Conc: 48.70 ug/ml



#4 2-Bromonaphthalene (SURR)

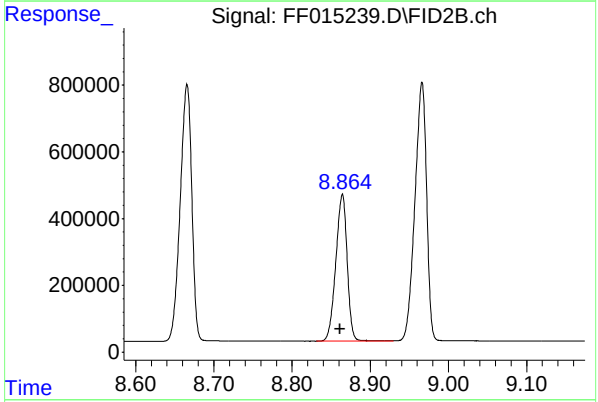
R.T.: 7.991 min
Delta R.T.: 0.002 min
Response: 6706329
Conc: 49.11 ug/ml



#5 Acenaphthylene (C15.06)

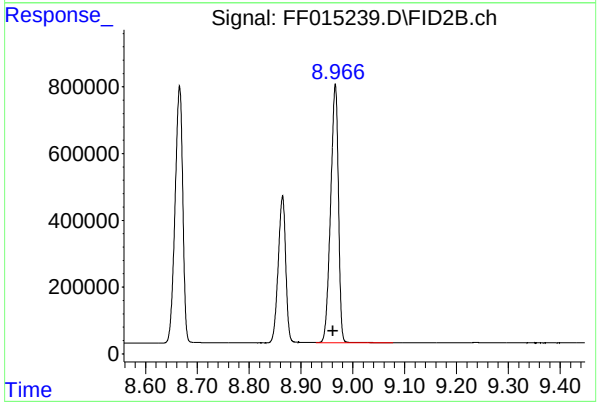
R.T.: 8.665 min
Delta R.T.: 0.003 min
Response: 7944180
Conc: 48.39 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



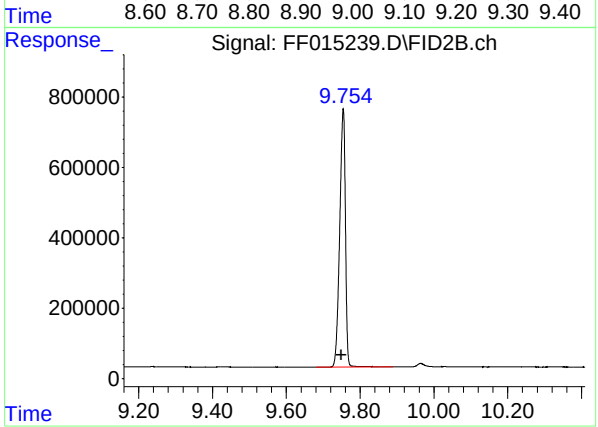
#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: 0.003 min
Response: 4458085
Conc: 50.99 ug/ml



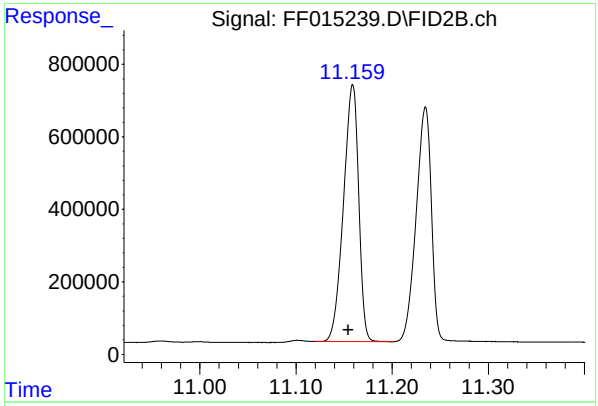
#7 Acenaphthene (C15.5)

R.T.: 8.966 min
Delta R.T.: 0.004 min
Response: 8084962
Conc: 48.01 ug/ml



#8 Flouorene (C16.55)

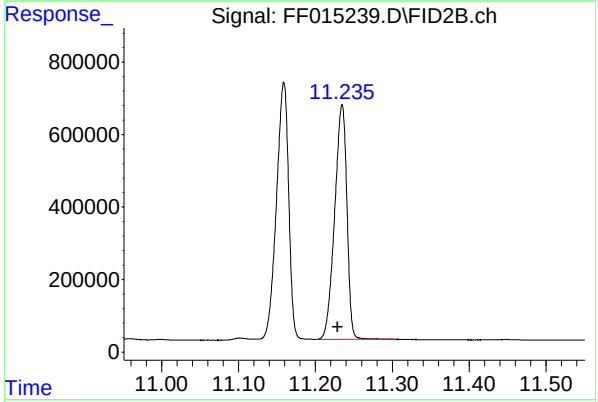
R.T.: 9.754 min
Delta R.T.: 0.005 min
Response: 7889867
Conc: 48.62 ug/ml



#9 Phenanthrene (C19.36)

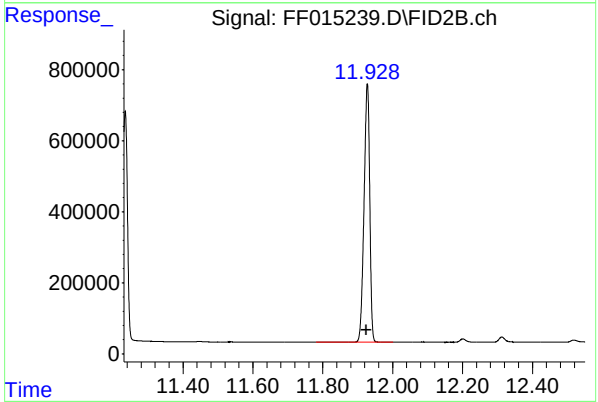
R.T.: 11.159 min
Delta R.T.: 0.004 min
Response: 7798615
Conc: 47.46 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



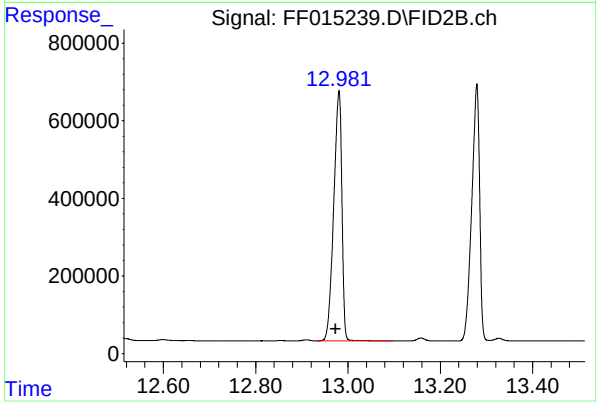
#10 Anthracene (C19.43)

R.T.: 11.234 min
Delta R.T.: 0.005 min
Response: 7158533
Conc: 47.12 ug/ml



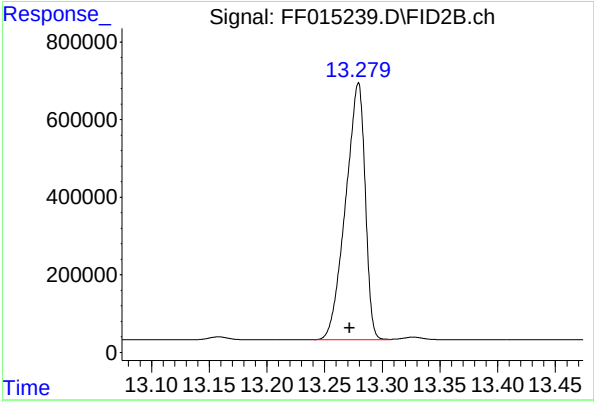
#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.003 min
Response: 8219088
Conc: 46.58 ug/ml



#12 Fluoranthene (C21.85)

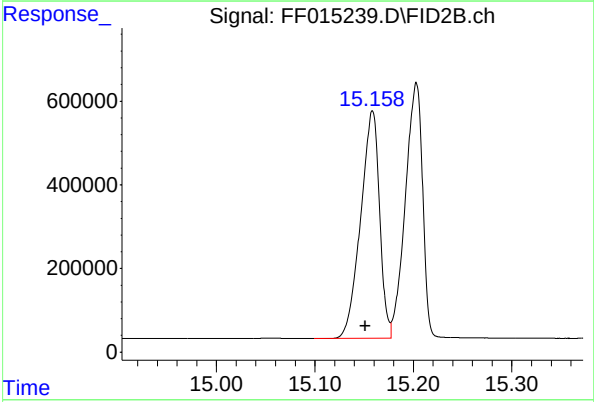
R.T.: 12.980 min
Delta R.T.: 0.007 min
Response: 7908397
Conc: 46.78 ug/ml



#13 Pyrene (C20.8)

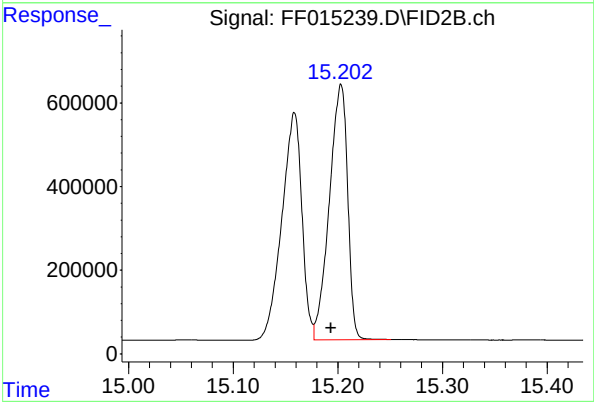
R.T.: 13.279 min
Delta R.T.: 0.007 min
Response: 7809787
Conc: 46.81 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



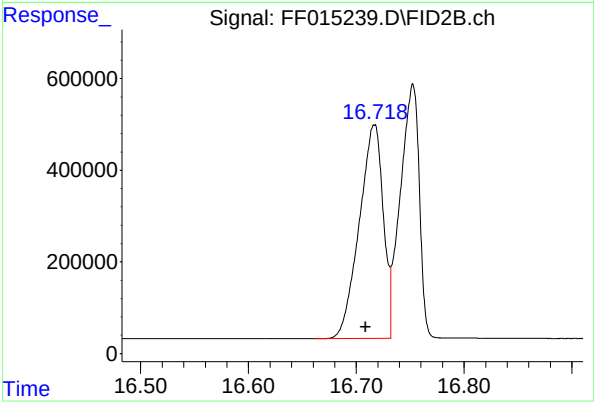
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.158 min
Delta R.T.: 0.007 min
Response: 7255394
Conc: 47.44 ug/ml



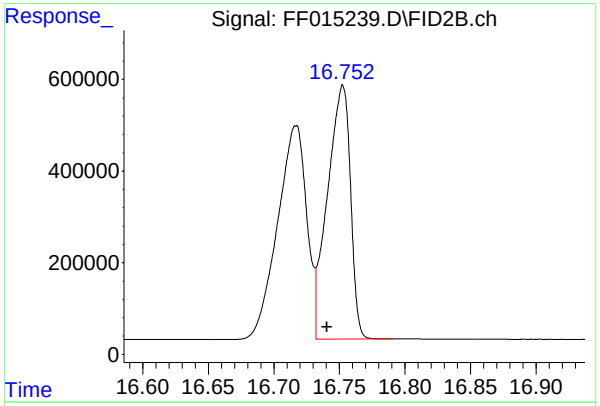
#15 Chrysene (C27.41)

R.T.: 15.203 min
Delta R.T.: 0.009 min
Response: 7417176
Conc: 47.05 ug/ml



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

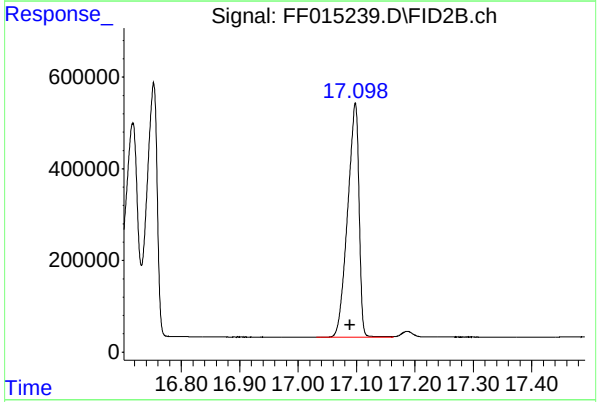
R.T.: 16.716 min
Delta R.T.: 0.008 min
Response: 7212940
Conc: 47.53 ug/ml



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

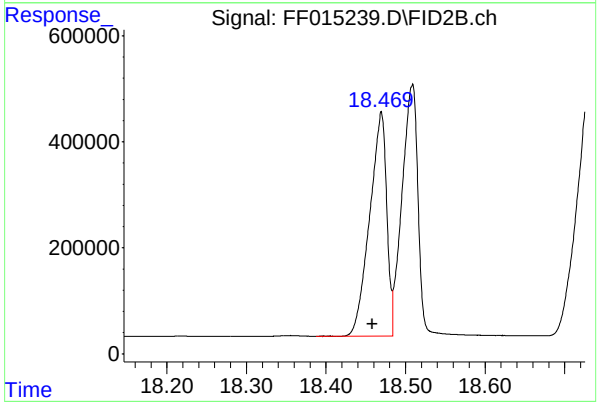
R.T.: 16.752 min
Delta R.T.: 0.011 min
Response: 6761403
Conc: 47.23 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



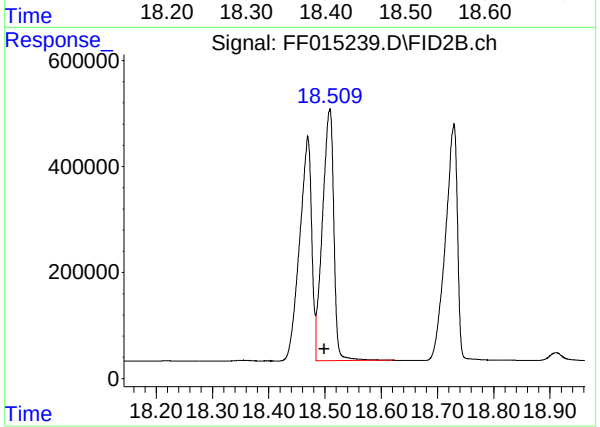
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.097 min
Delta R.T.: 0.008 min
Response: 6941461
Conc: 48.02 ug/ml



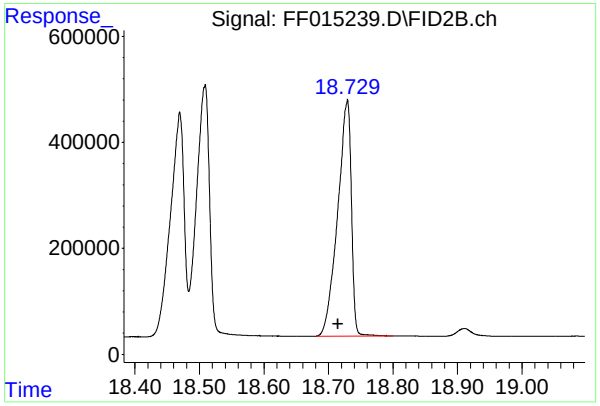
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.469 min
Delta R.T.: 0.011 min
Response: 6290650
Conc: 49.10 ug/ml



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

R.T.: 18.508 min
Delta R.T.: 0.009 min
Response: 6651715
Conc: 43.79 ug/ml



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

R.T.: 18.728 min
Delta R.T.: 0.014 mi
Response: 6586140
Conc: 47.88 ug/m

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015239.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 19:13
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 011425.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	4.603	4.536	4.672	BV	806276	7827551	95.24%	5.126%
2	6.271	6.206	6.381	BB	822773	7941517	96.62%	5.201%
3	7.366	7.321	7.476	BB	811179	7979495	97.08%	5.226%
4	7.991	7.917	8.066	BB	700156	6706329	81.59%	4.392%
5	8.665	8.592	8.762	BB	771795	7944180	96.66%	5.203%
6	8.864	8.831	8.929	BV	440156	4458085	54.24%	2.920%
7	8.966	8.929	9.077	VB	776251	8084962	98.37%	5.295%
8	9.754	9.681	9.889	BV	736641	7889867	95.99%	5.167%
9	11.159	11.121	11.201	BV	710926	7798615	94.88%	5.108%
10	11.234	11.201	11.301	PBA	646029	7158533	87.10%	4.688%
11	11.927	11.781	12.001	BV	729683	8219088	100.00%	5.383%
12	12.980	12.931	13.097	VB	647513	7908397	96.22%	5.179%
13	13.279	13.241	13.307	BV	663229	7809787	95.02%	5.115%
14	15.158	15.099	15.177	BV	544644	7255394	88.27%	4.752%
15	15.203	15.177	15.251	VBA	611311	7417176	90.24%	4.858%
16	16.716	16.661	16.732	BV	466128	7212940	87.76%	4.724%
17	16.752	16.732	16.791	VBA	556688	6761403	82.26%	4.428%
18	17.097	17.031	17.162	BV	511221	6941461	84.46%	4.546%
19	18.469	18.387	18.484	PV	423131	6252458	76.07%	4.095%
20	18.508	18.484	18.561	VBA	470967	6535971	79.52%	4.281%
21	18.728	18.681	18.800	BBA	444428	6586140	80.13%	4.313%

Sum of corrected areas: 152689350

Aromatic EPH 011425.M Wed Jan 15 05:53:51 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015240.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 19:42
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: Jan 15 07:00:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.989	2731387	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
6)	S 2-Flurobiphenyl (SURR)	8.862	1748615	20.000 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 40.00%	
11)	S ortho-Terphenyl (SURR)	11.924	3528908	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.602	3269952	20.000 ug/ml
2)	T Naphthalene (C11.7)	6.269	3290517	20.000 ug/ml
3)	T 2-Methylnaphthalene (...	7.363	3276967	20.000 ug/ml
5)	T Acenaphthylene (C15.06)	8.662	3283469	20.000 ug/ml
7)	T Acenaphthene (C15.5)	8.962	3367723	20.000 ug/ml
8)	T Flouorene (C16.55)	9.749	3245190	20.000 ug/ml
9)	T Phenanthrene (C19.36)	11.154	3286441	20.000 ug/ml
10)	T Anthracene (C19.43)	11.229	3038486	20.000 ug/ml
12)	T Fluoranthene (C21.85)	12.973	3381047	20.000 ug/ml
13)	T Pyrene (C20.8)	13.272	3337101	20.000 ug/ml
14)	T Benzo[a]anthracene (C...	15.151	3058875	20.000 ug/ml
15)	T Chrysene (C27.41)	15.194	3152882	20.000 ug/ml
16)	T benzo[b]fluoranthene ...	16.709	3035406	20.000 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.740	2863212	20.000 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.089	2891270	20.000 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.458	2562567	20.000 ug/ml
20)	T Dibenz[a,h]anthracene...	18.499	3038214	20.000 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.714	2750930	20.000 ug/ml

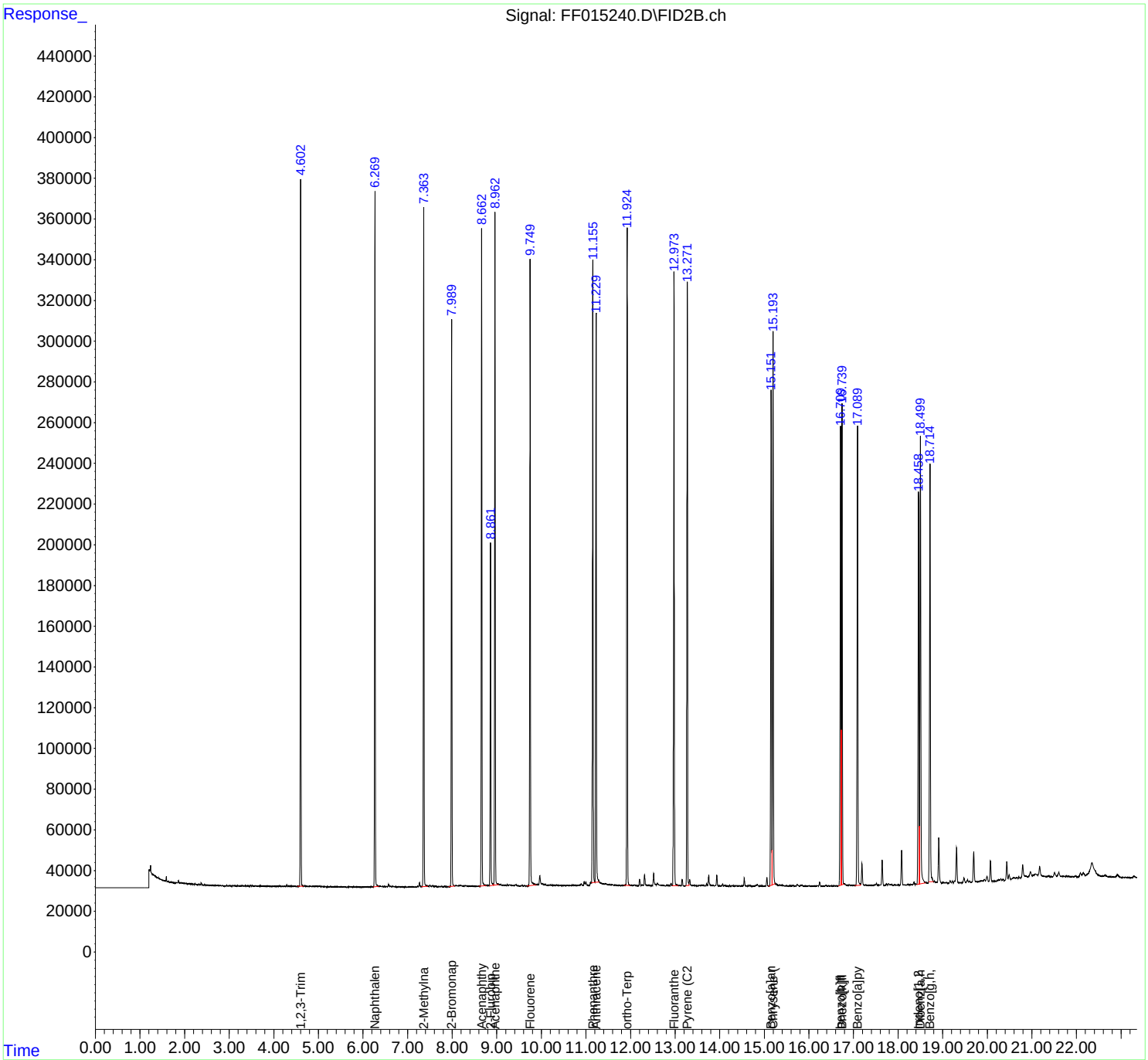
(f)=RT Delta > 1/2 Window (m)=manual int.

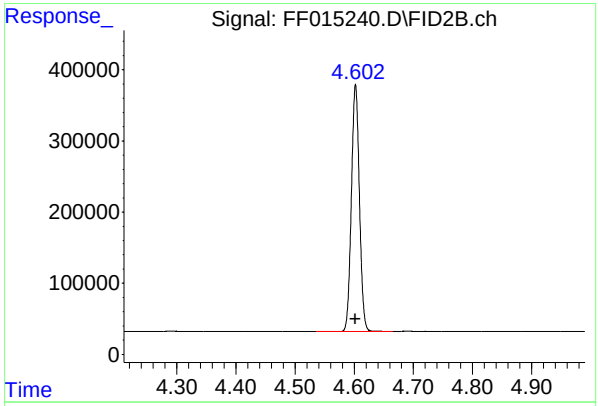
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015240.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 19:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 15 07:00:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

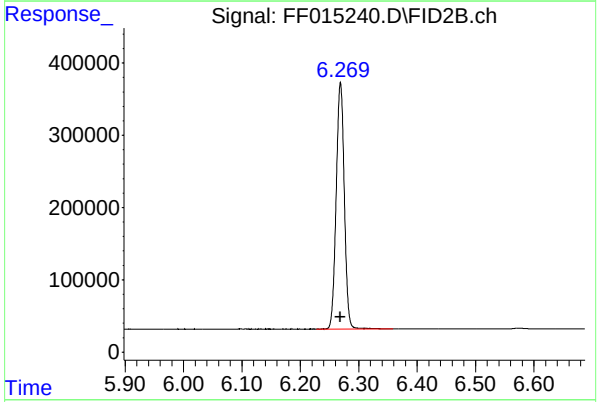




#1 1,2,3-Trimethylbenzene (C10.1)

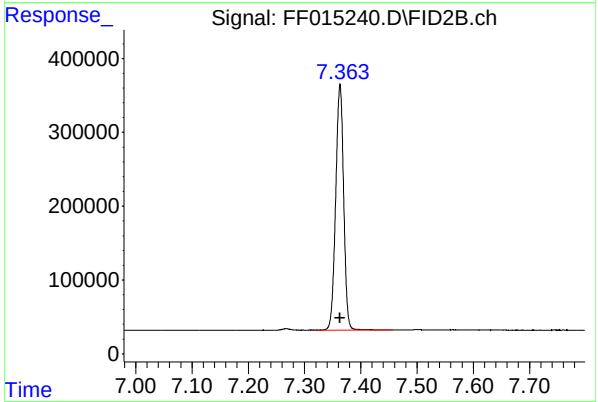
R.T.: 4.602 min
Delta R.T.: 0.000 min
Response: 3269952
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



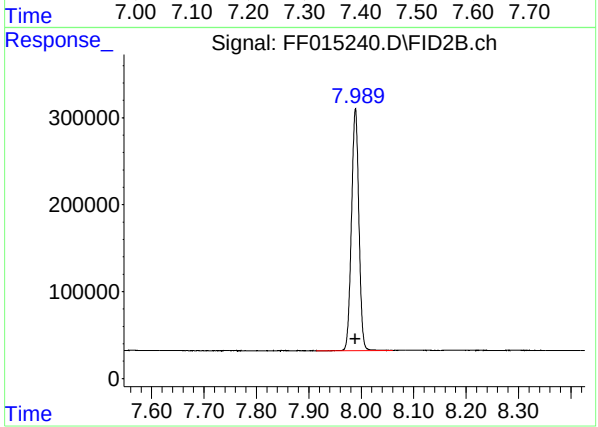
#2 Naphthalene (C11.7)

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 3290517
Conc: 20.00 ug/ml



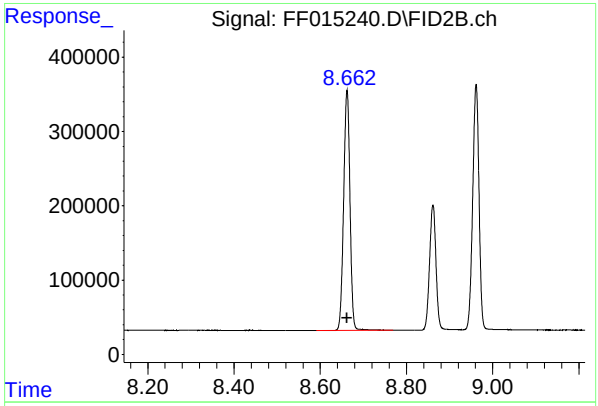
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.363 min
Delta R.T.: 0.000 min
Response: 3276967
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

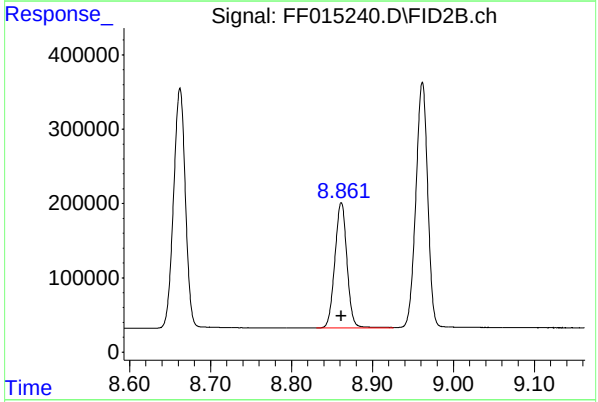
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 2731387
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

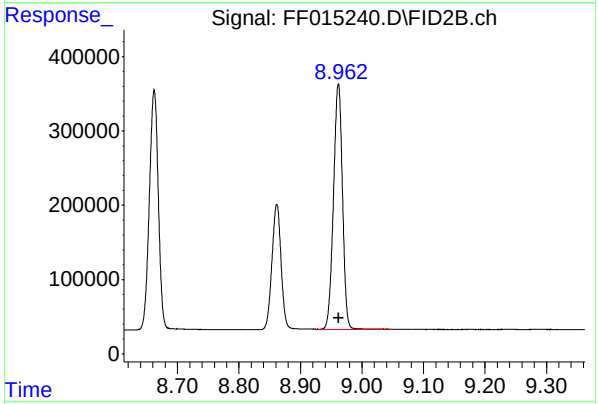
R.T.: 8.662 min
Delta R.T.: 0.000 min
Response: 3283469
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



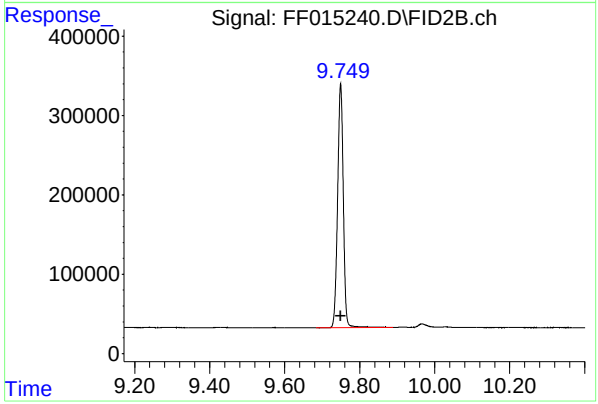
#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 1748615
Conc: 20.00 ug/ml



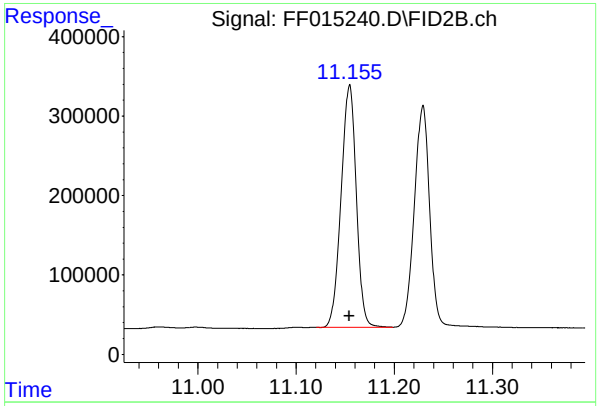
#7 Acenaphthene (C15.5)

R.T.: 8.962 min
Delta R.T.: 0.000 min
Response: 3367723
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

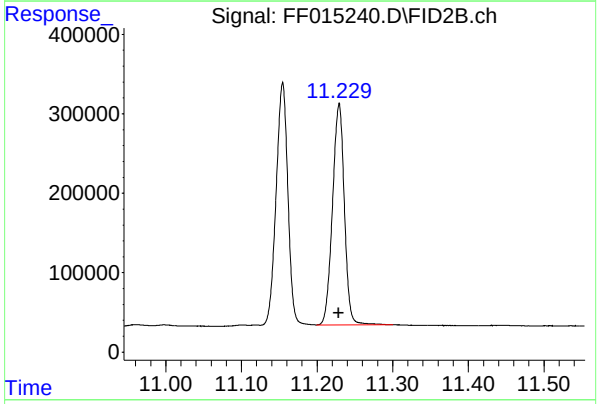
R.T.: 9.749 min
Delta R.T.: 0.000 min
Response: 3245190
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

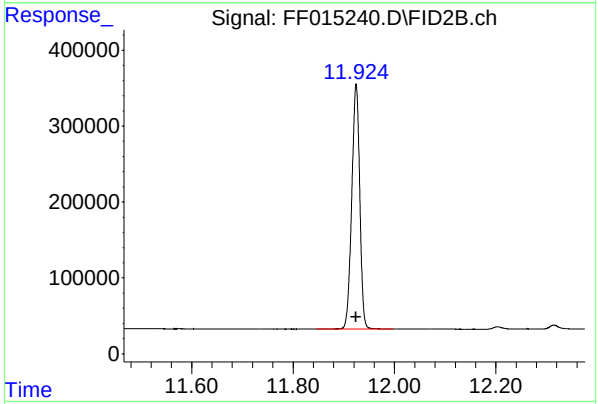
R.T.: 11.154 min
Delta R.T.: 0.000 min
Response: 3286441
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



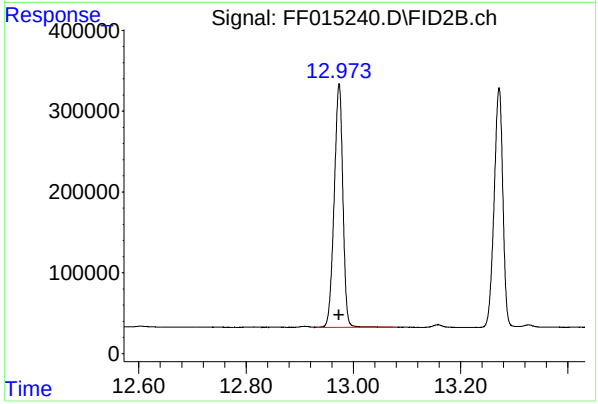
#10 Anthracene (C19.43)

R.T.: 11.229 min
Delta R.T.: 0.000 min
Response: 3038486
Conc: 20.00 ug/ml



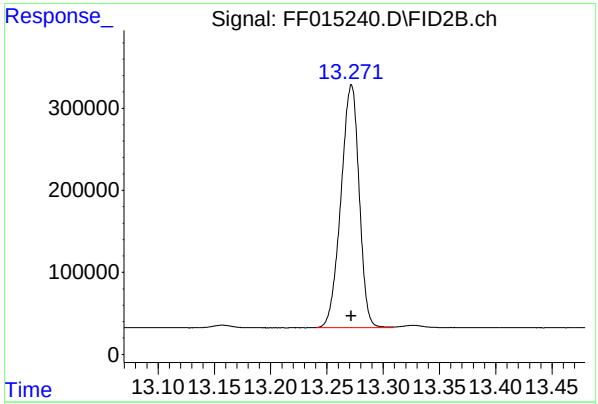
#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.000 min
Response: 3528908
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

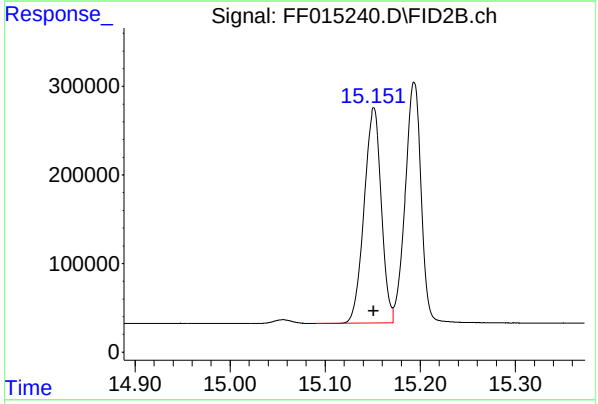
R.T.: 12.973 min
Delta R.T.: 0.000 min
Response: 3381047
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

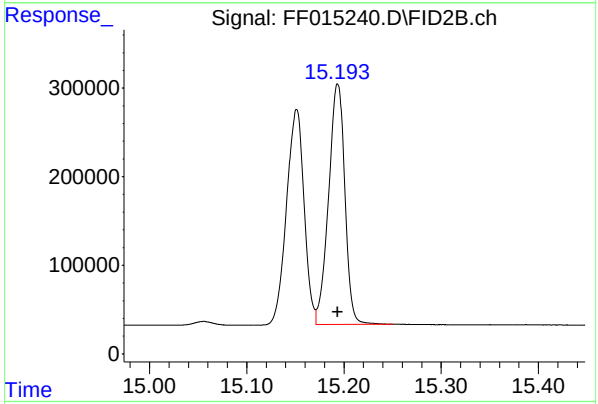
R.T.: 13.272 min
Delta R.T.: 0.000 min
Response: 3337101
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



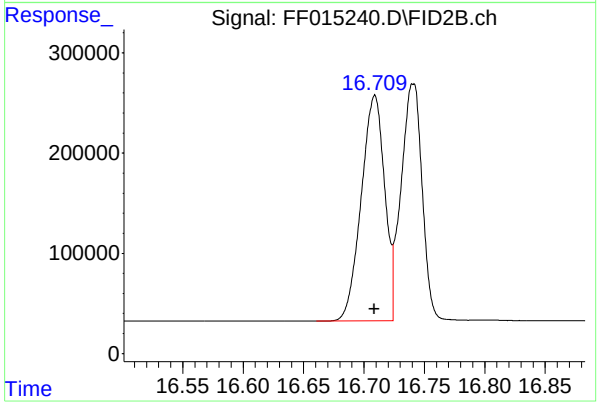
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.151 min
Delta R.T.: 0.000 min
Response: 3058875
Conc: 20.00 ug/ml



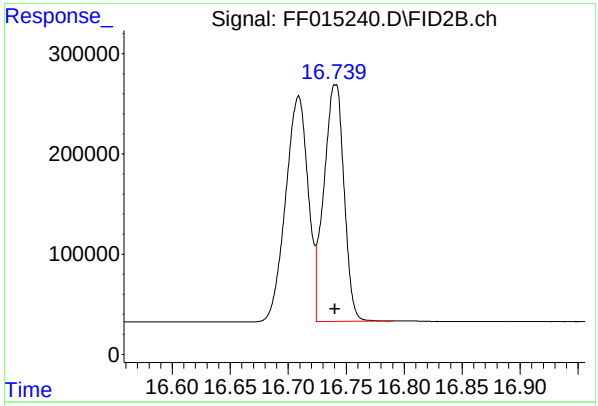
#15 Chrysene (C27.41)

R.T.: 15.194 min
Delta R.T.: 0.000 min
Response: 3152882
Conc: 20.00 ug/ml



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

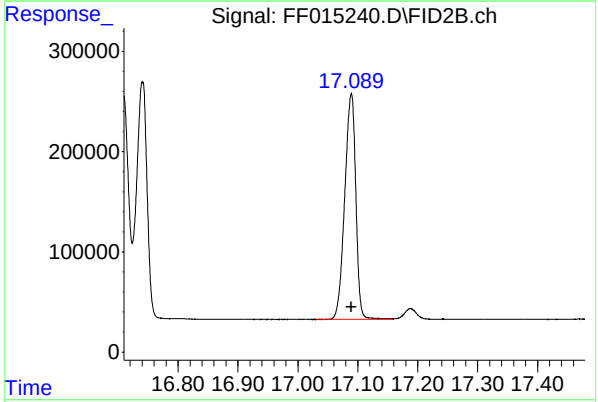
R.T.: 16.709 min
Delta R.T.: 0.000 min
Response: 3035406
Conc: 20.00 ug/ml



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

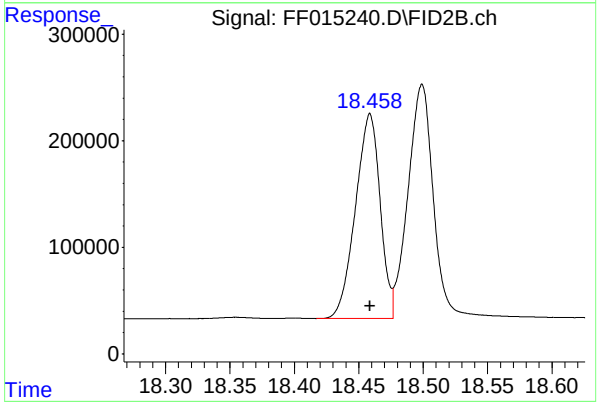
R.T.: 16.740 min
Delta R.T.: 0.000 min
Response: 2863212
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



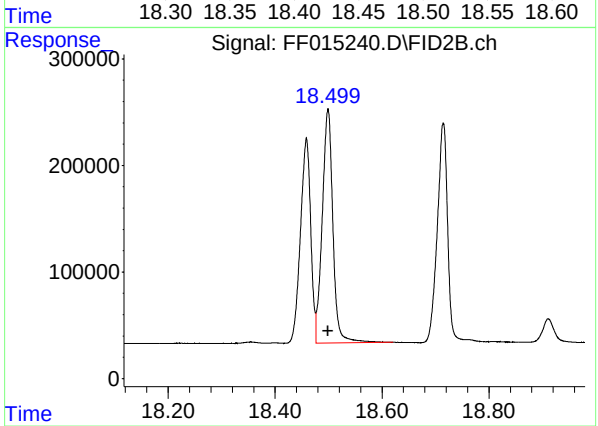
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.089 min
Delta R.T.: 0.000 min
Response: 2891270
Conc: 20.00 ug/ml



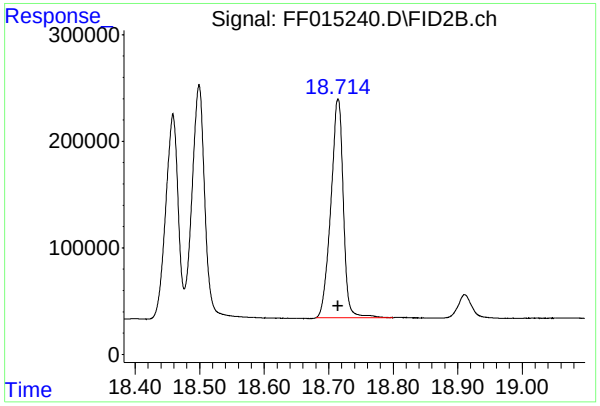
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.458 min
Delta R.T.: 0.000 min
Response: 2562567
Conc: 20.00 ug/ml



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

R.T.: 18.499 min
Delta R.T.: 0.000 min
Response: 3038214
Conc: 20.00 ug/ml



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

R.T.: 18.714 min
Delta R.T.: 0.000 mi
Response: 2750930
Conc: 20.00 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015240.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 19:42
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 011425.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	4.602	4.535	4.665	BV	347025	3269952	92.66%	5.106%
2	6.269	6.227	6.359	BB	341297	3290517	93.24%	5.138%
3	7.363	7.320	7.457	BB	334602	3276967	92.86%	5.117%
4	7.989	7.914	8.060	BB	277910	2731387	77.40%	4.265%
5	8.662	8.590	8.769	BB	322996	3283469	93.04%	5.127%
6	8.862	8.830	8.925	BV	168871	1748615	49.55%	2.730%
7	8.962	8.925	9.050	VB	331223	3367723	95.43%	5.259%
8	9.749	9.684	9.889	BB	307180	3245190	91.96%	5.067%
9	11.154	11.120	11.199	BV	304166	3286441	93.13%	5.132%
10	11.229	11.199	11.300	VBA	278356	3038486	86.10%	4.745%
11	11.924	11.845	11.997	BV	322126	3528908	100.00%	5.510%
12	12.973	12.930	13.074	PB	302470	3381047	95.81%	5.279%
13	13.272	13.240	13.309	BV	296759	3337101	94.56%	5.211%
14	15.151	15.090	15.171	PV	243859	3058875	86.68%	4.776%
15	15.194	15.171	15.250	VBA	271916	3152882	89.34%	4.923%
16	16.709	16.660	16.724	BV	225248	3035406	86.02%	4.740%
17	16.740	16.724	16.790	VBA	236362	2863212	81.14%	4.471%
18	17.089	17.030	17.159	BV	225062	2891270	81.93%	4.515%
19	18.458	18.417	18.477	PV	192183	2549630	72.25%	3.981%
20	18.499	18.477	18.560	VBA	218440	2953549	83.70%	4.612%
21	18.714	18.680	18.800	BBA	205088	2750930	77.95%	4.296%
			Sum of corrected areas:			64041559		

Aromatic EPH 011425.M Wed Jan 15 05:54:49 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015241.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 20:10
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 15 07:01:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.989	1325151	9.703 ug/ml
	Spiked Amount 50.000		Recovery =	19.41%
6)	S 2-Flurobiphenyl (SURR)	8.861	812579	9.294 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	18.59%
11)	S ortho-Terphenyl (SURR)	11.923	1807583	10.244 ug/ml
	Spiked Amount 50.000		Recovery =	20.49%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.603	1642634	10.047 ug/ml
2)	T Naphthalene (C11.7)	6.269	1634097	9.932 ug/ml
3)	T 2-Methylnaphthalene (...	7.363	1607329	9.810 ug/ml
5)	T Acenaphthylene (C15.06)	8.662	1613284	9.827 ug/ml
7)	T Acenaphthene (C15.5)	8.961	1661380	9.866 ug/ml
8)	T Flouorene (C16.55)	9.749	1574177	9.702 ug/ml
9)	T Phenanthrene (C19.36)	11.153	1645993	10.017 ug/ml
10)	T Anthracene (C19.43)	11.228	1530830	10.076 ug/ml
12)	T Fluoranthene (C21.85)	12.972	1740645	10.296 ug/ml
13)	T Pyrene (C20.8)	13.270	1697234	10.172 ug/ml
14)	T Benzo[a]anthracene (C...	15.149	1554594	10.164 ug/ml
15)	T Chrysene (C27.41)	15.190	1627555	10.324 ug/ml
16)	T benzo[b]fluoranthene ...	16.705	1530446	10.084 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.736	1467978	10.254 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.085	1467773	10.153 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.455	1261241	9.844 ug/ml
20)	T Dibenz[a,h]anthracene...	18.496	1584865	10.433 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.709	1402706	10.198 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015241.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 20:10
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 74 Sample Multiplier: 1

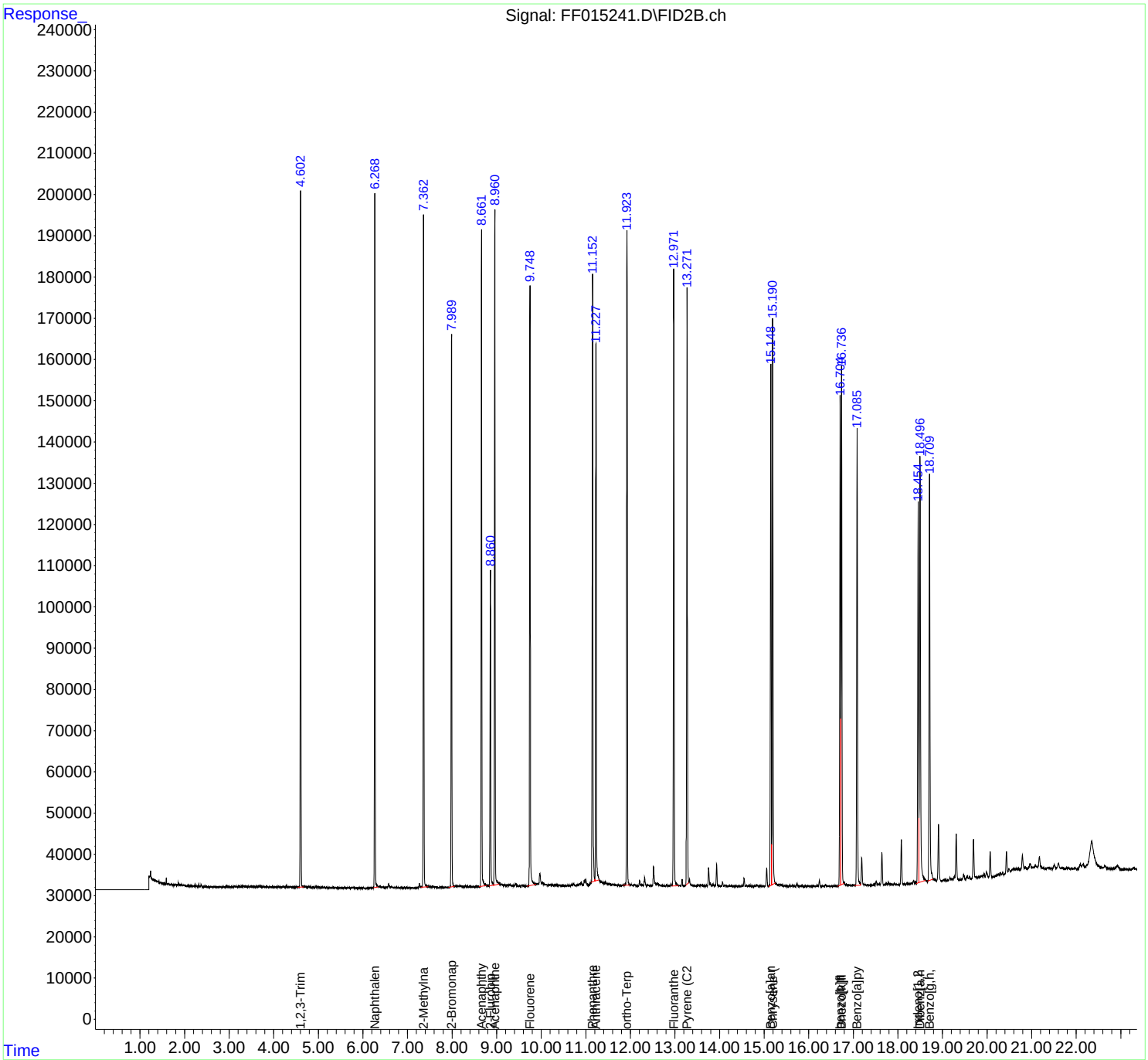
Integration File: autoint1.e
Quant Time: Jan 15 07:01:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

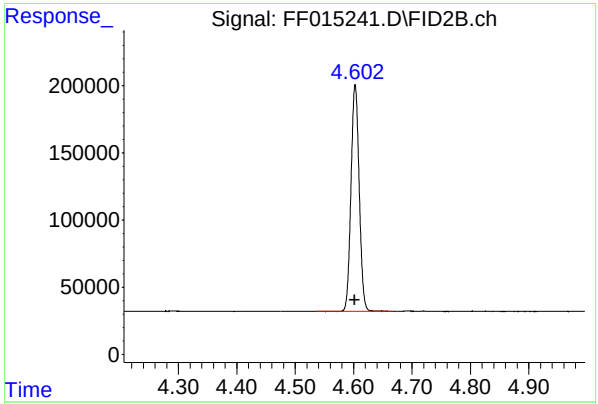
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025





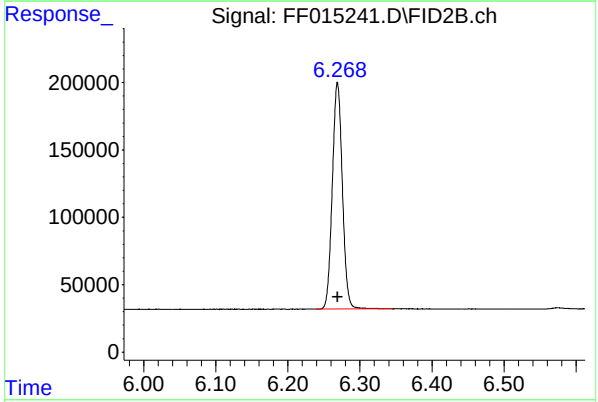
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.603 min
Delta R.T.: 0.000 min
Response: 1642634
Conc: 10.05 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

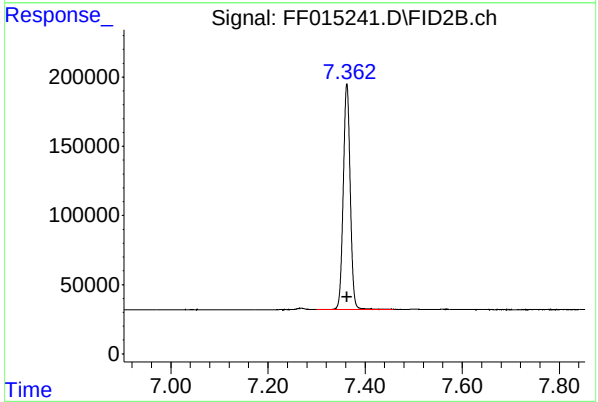
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



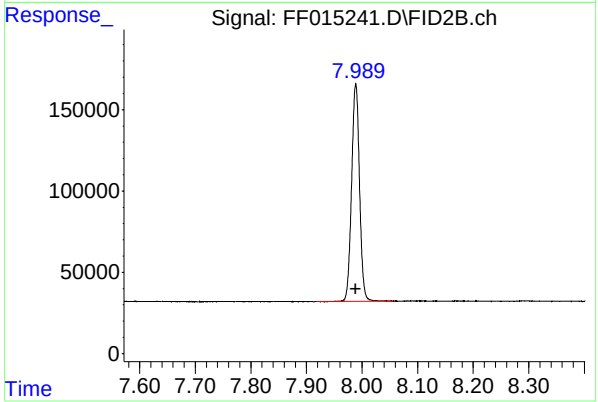
#2 Naphthalene (C11.7)

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 1634097
Conc: 9.93 ug/ml



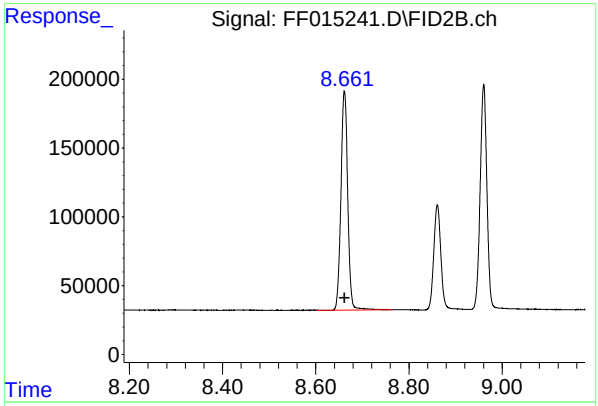
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.363 min
Delta R.T.: 0.000 min
Response: 1607329
Conc: 9.81 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 1325151
Conc: 9.70 ug/ml



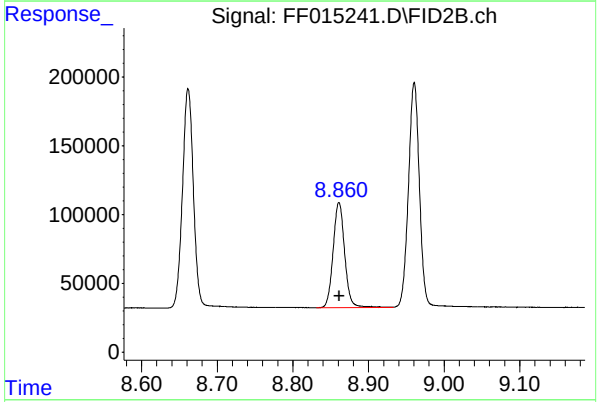
#5 Acenaphthylene (C15.06)

R.T.: 8.662 min
Delta R.T.: 0.000 min
Response: 1613284
Conc: 9.83 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

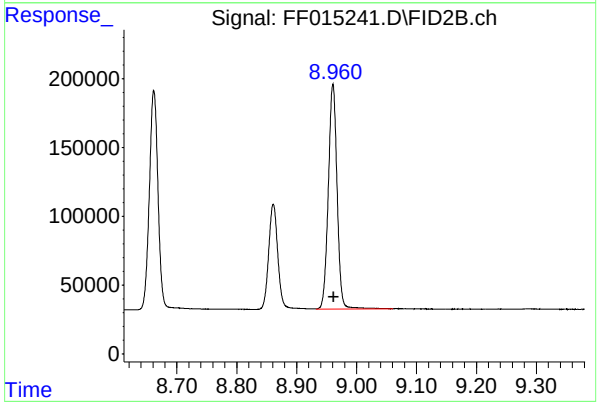
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



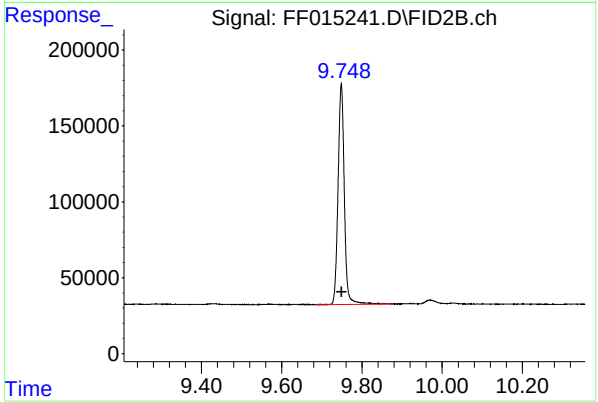
#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 812579
Conc: 9.29 ug/ml



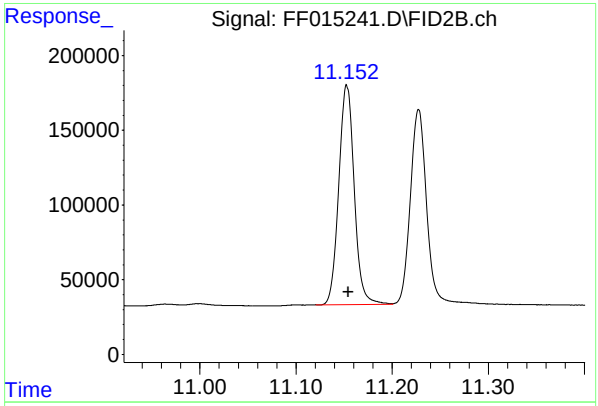
#7 Acenaphthene (C15.5)

R.T.: 8.961 min
Delta R.T.: -0.001 min
Response: 1661380
Conc: 9.87 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.749 min
Delta R.T.: 0.000 min
Response: 1574177
Conc: 9.70 ug/ml



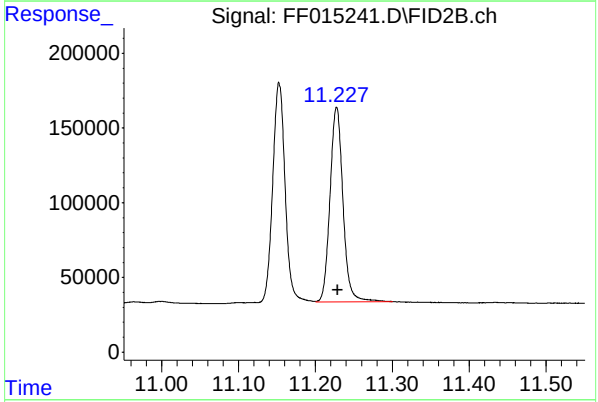
#9 Phenanthrene (C19.36)

R.T.: 11.153 min
Delta R.T.: -0.002 min
Response: 1645993
Conc: 10.02 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

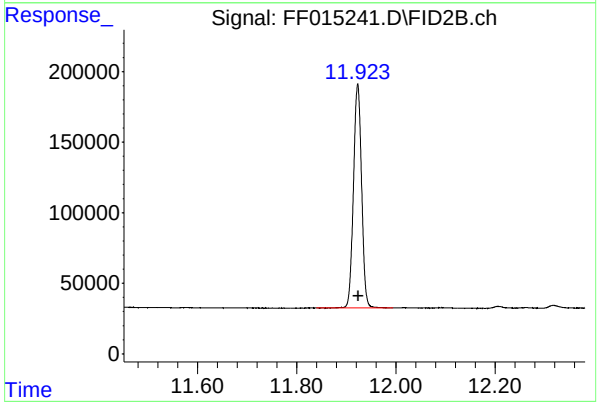
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



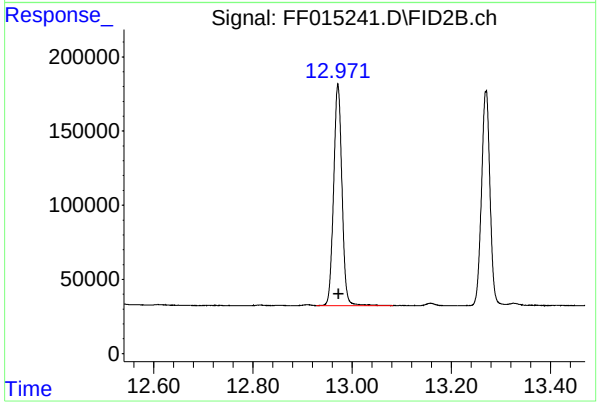
#10 Anthracene (C19.43)

R.T.: 11.228 min
Delta R.T.: -0.001 min
Response: 1530830
Conc: 10.08 ug/ml



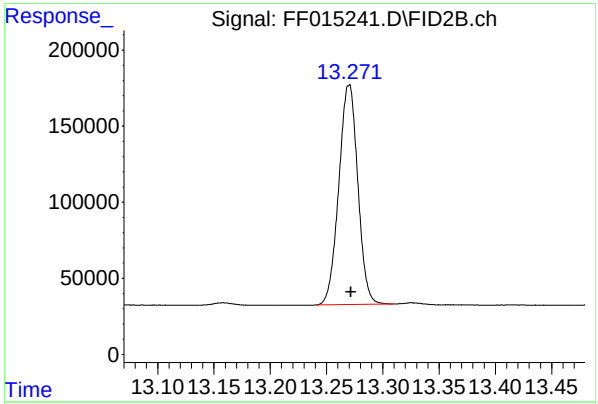
#11 ortho-Terphenyl (SURR)

R.T.: 11.923 min
Delta R.T.: -0.001 min
Response: 1807583
Conc: 10.24 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.972 min
Delta R.T.: -0.002 min
Response: 1740645
Conc: 10.30 ug/ml



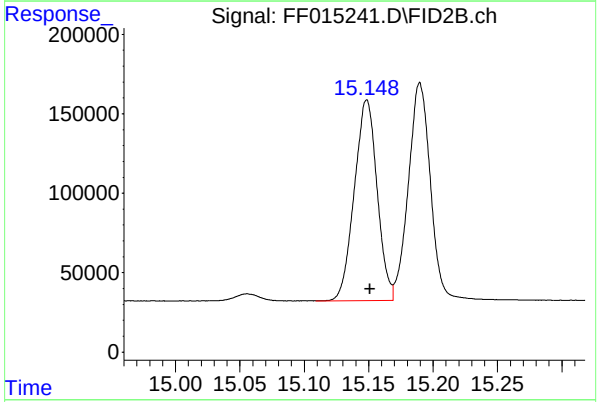
#13 Pyrene (C20.8)

R.T.: 13.270 min
Delta R.T.: -0.002 min
Response: 1697234
Conc: 10.17 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

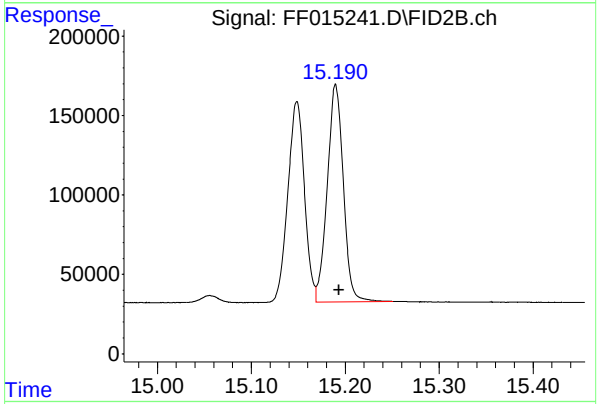
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



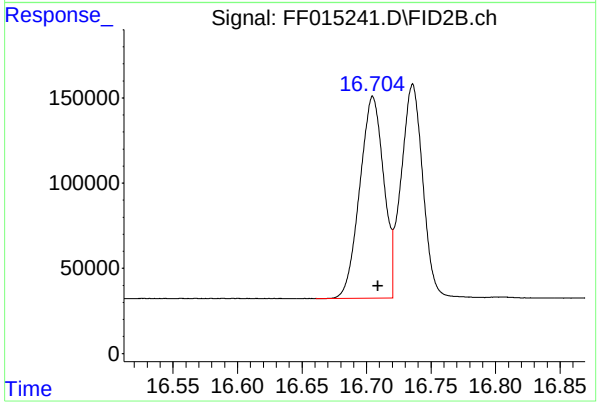
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.149 min
Delta R.T.: -0.003 min
Response: 1554594
Conc: 10.16 ug/ml



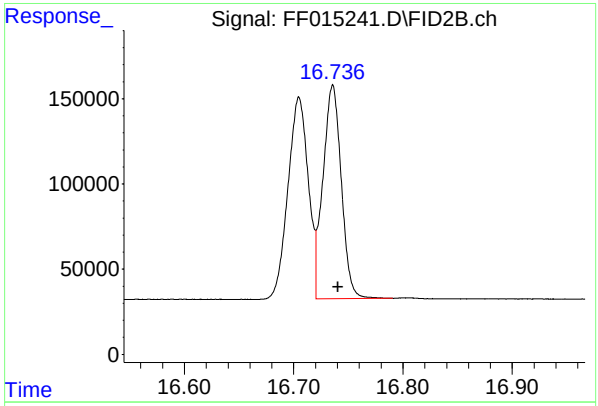
#15 Chrysene (C27.41)

R.T.: 15.190 min
Delta R.T.: -0.004 min
Response: 1627555
Conc: 10.32 ug/ml



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

R.T.: 16.705 min
Delta R.T.: -0.004 min
Response: 1530446
Conc: 10.08 ug/ml



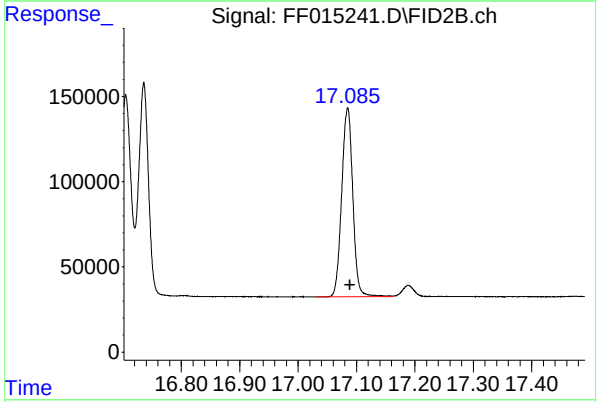
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.736 min
Delta R.T.: -0.005 mi
Response: 1467978
Conc: 10.25 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

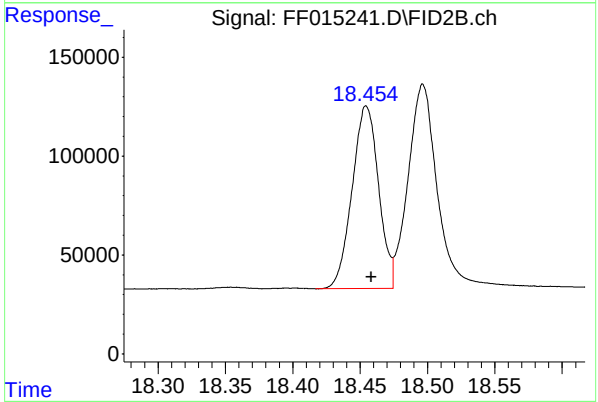
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025



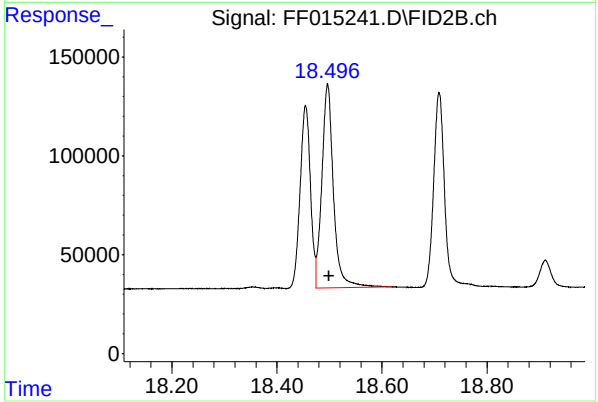
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.085 min
Delta R.T.: -0.004 min
Response: 1467773
Conc: 10.15 ug/ml



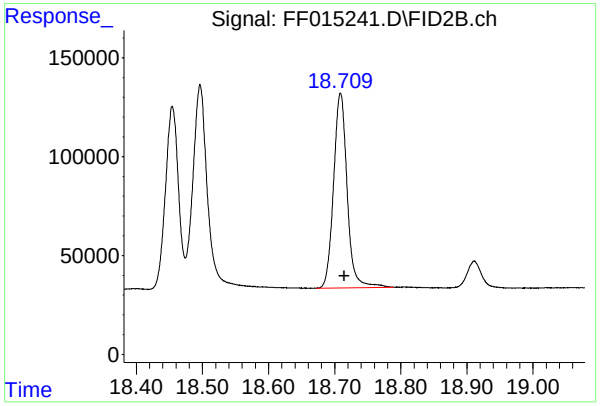
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.455 min
Delta R.T.: -0.004 min
Response: 1261241
Conc: 9.84 ug/ml



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

R.T.: 18.496 min
Delta R.T.: -0.002 min
Response: 1584865
Conc: 10.43 ug/ml



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

R.T.: 18.709 min
Delta R.T.: -0.006 mi
Response: 1402706
Conc: 10.20 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

Instrument :
FID_F
LabSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/15/2025
Supervised By :Ankita Jodhani 01/15/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01142
Data File : FF015241.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 20:10
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 011425.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	4.603	4.536	4.667	BB	168754	1642634	90.87%	5.253%
2	6.269	6.239	6.346	BB	167940	1634097	90.40%	5.226%
3	7.363	7.299	7.457	BB	163039	1607329	88.92%	5.140%
4	7.989	7.917	8.056	BB	133978	1325151	73.31%	4.238%
5	8.662	8.601	8.766	BB	158907	1613284	89.25%	5.159%
6	8.961	8.932	9.061	VB	163755	1661380	91.91%	5.313%
7	9.749	9.686	9.877	BB	145550	1574177	87.09%	5.034%
8	11.153	11.121	11.201	BV	147161	1645993	91.06%	5.264%
9	11.228	11.201	11.301	VBA	130487	1530830	84.69%	4.895%
10	11.923	11.839	11.994	BV	158592	1807583	100.00%	5.781%
11	12.972	12.927	13.082	PB	149198	1740645	96.30%	5.566%
12	13.270	13.241	13.309	BV	145095	1697234	93.90%	5.428%
13	15.044	15.044	15.044	M	117	9	0.00%	0.000%
14	15.149	15.109	15.169	BV	126630	1554594	86.00%	4.971%
15	15.190	15.169	15.251	VBA	136630	1627555	90.04%	5.205%
16	16.705	16.661	16.720	BV	118442	1530446	84.67%	4.894%
17	16.736	16.720	16.791	VBA	125490	1467978	81.21%	4.694%
18	17.085	17.031	17.162	BV	110758	1467773	81.20%	4.694%
19	18.455	18.417	18.474	PV	92080	1252153	69.27%	4.004%
20	18.496	18.474	18.561	VBA	102480	1517310	83.94%	4.852%
21	18.709	18.681	18.800	BBA	97922	1372104	75.91%	4.388%
			Sum of corrected areas:			31270260		

Aromatic EPH 011425.M Wed Jan 15 05:55:58 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015242.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 20:39
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: Jan 15 07:01:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.989	610289	4.469 ug/ml
Spiked Amount	50.000		Recovery =	8.94%
6)	S 2-Flurobiphenyl (SURR)	8.861	364751	4.172 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	8.34%
11)	S ortho-Terphenyl (SURR)	11.921	892597	5.059 ug/ml
Spiked Amount	50.000		Recovery =	10.12%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.603	825147	5.047 ug/ml
2)	T Naphthalene (C11.7)	6.269	789640	4.799 ug/ml
3)	T 2-Methylnaphthalene (...	7.362	756966	4.620 ug/ml
5)	T Acenaphthylene (C15.06)	8.661	759771	4.628 ug/ml
7)	T Acenaphthene (C15.5)	8.959	793818	4.714 ug/ml
8)	T Flouorene (C16.55)	9.748	761825	4.695 ug/ml
9)	T Phenanthrene (C19.36)	11.152	794849	4.837 ug/ml
10)	T Anthracene (C19.43)	11.227	745852	4.909 ug/ml
12)	T Fluoranthene (C21.85)	12.970	853770	5.050 ug/ml
13)	T Pyrene (C20.8)	13.269	819344	4.911 ug/ml
14)	T Benzo[a]anthracene (C...	15.147	744827	4.870 ug/ml
15)	T Chrysene (C27.41)	15.188	810280	5.140 ug/ml
16)	T benzo[b]fluoranthene ...	16.703	734955	4.843 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.733	729393	5.095 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.084	717031	4.960 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.454	599225	4.677 ug/ml
20)	T Dibenz[a,h]anthracene...	18.497	843394	5.552 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.707	673965	4.900 ug/ml

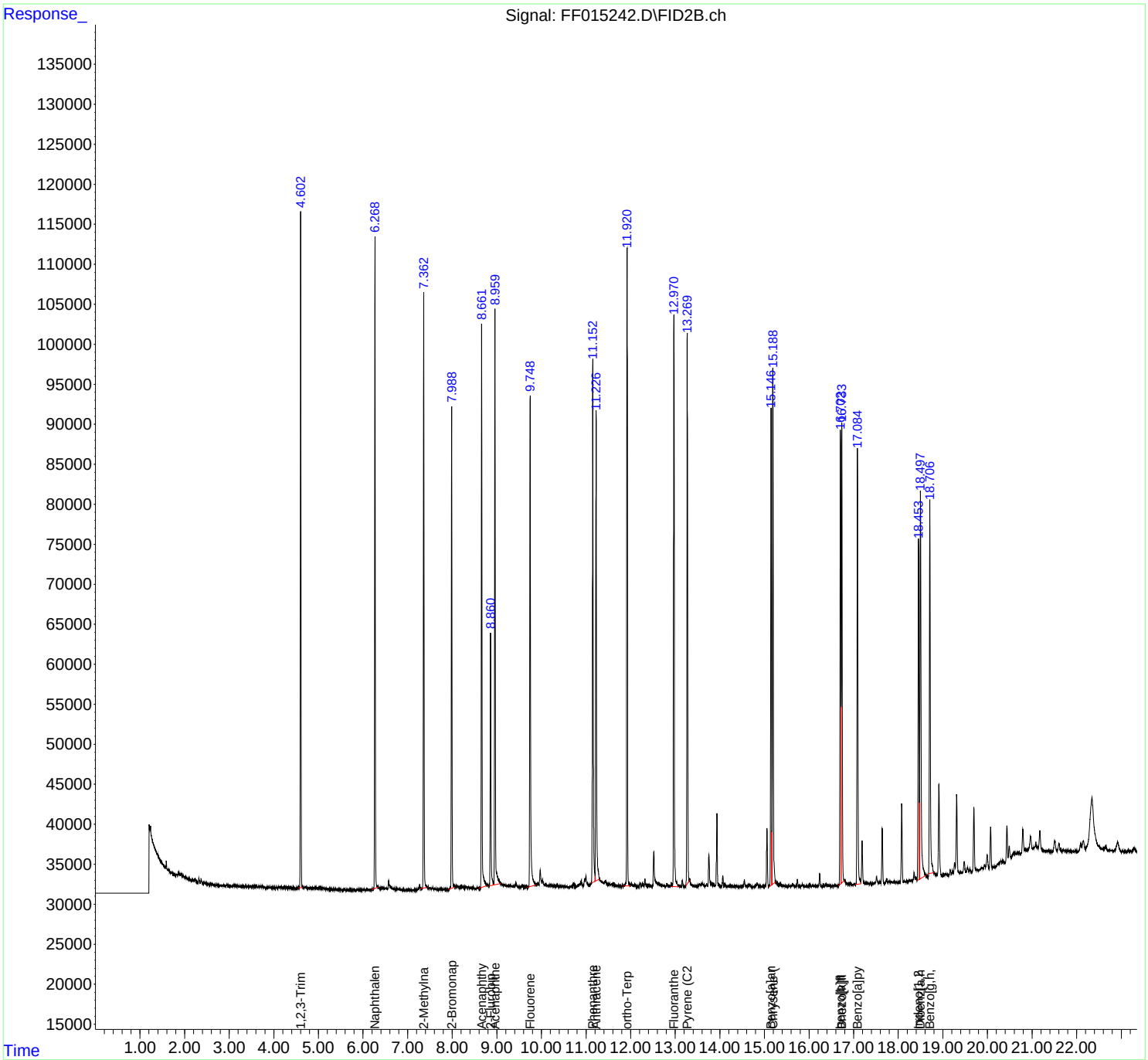
(f)=RT Delta > 1/2 Window (m)=manual int.

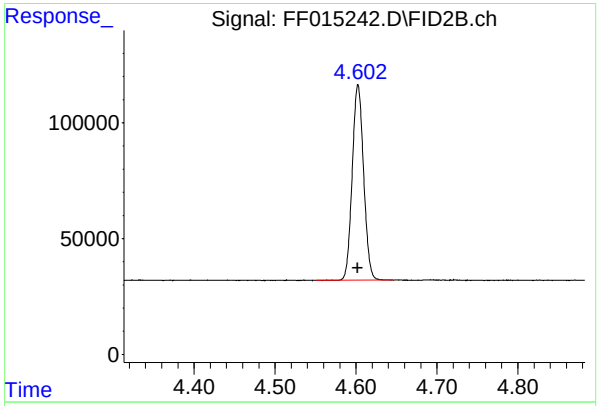
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015242.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 20:39
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 75 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 15 07:01:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 06:59:49 2025
Response via : Initial Calibration
Integrator: ChemStation

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

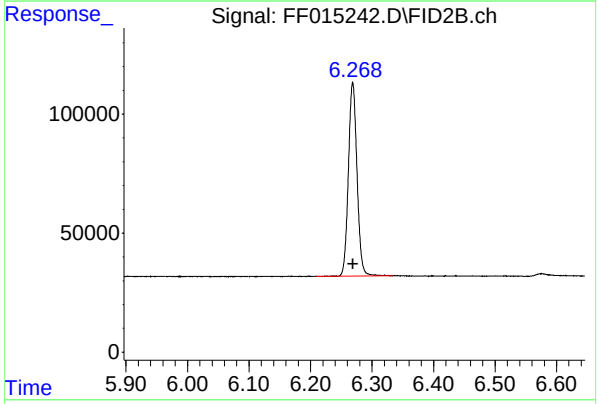




#1 1,2,3-Trimethylbenzene (C10.1)

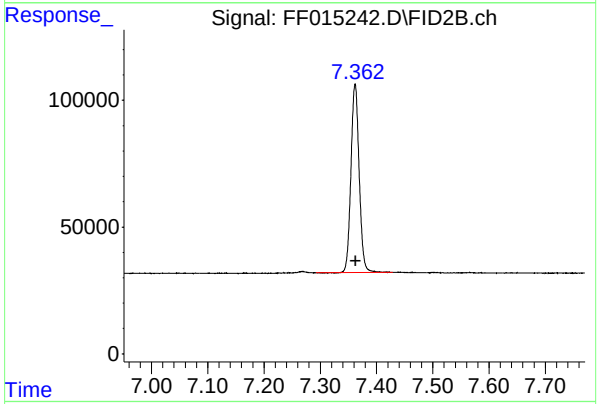
R.T.: 4.603 min
Delta R.T.: 0.000 min
Response: 825147
Conc: 5.05 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



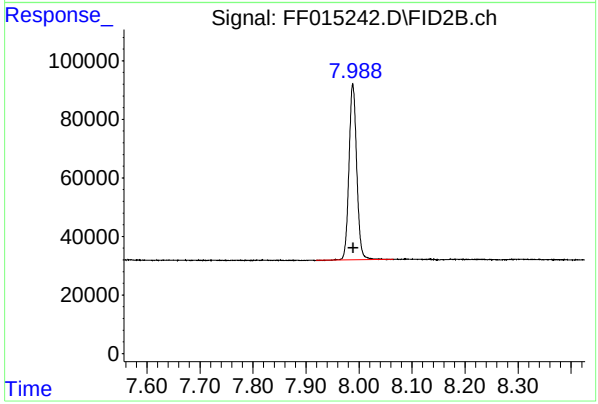
#2 Naphthalene (C11.7)

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 789640
Conc: 4.80 ug/ml



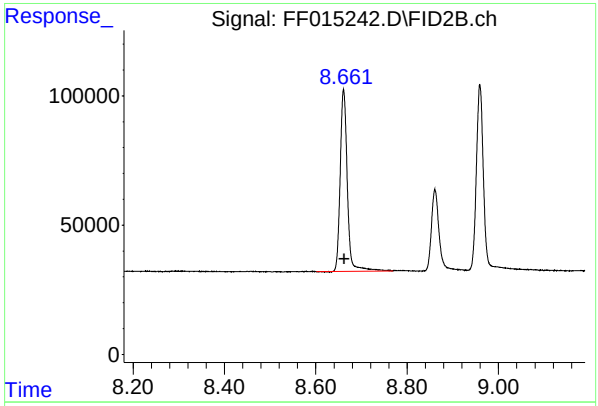
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.362 min
Delta R.T.: -0.001 min
Response: 756966
Conc: 4.62 ug/ml



#4 2-Bromonaphthalene (SURR)

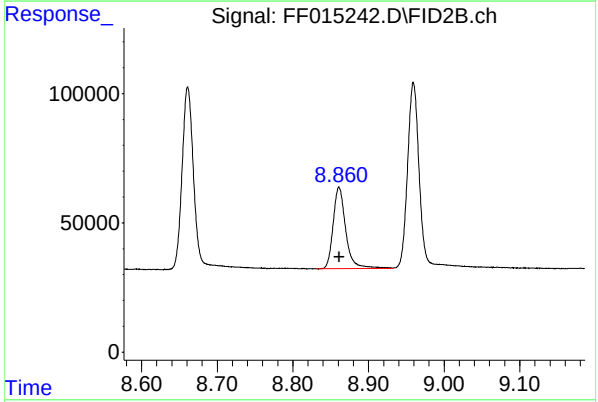
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 610289
Conc: 4.47 ug/ml



#5 Acenaphthylene (C15.06)

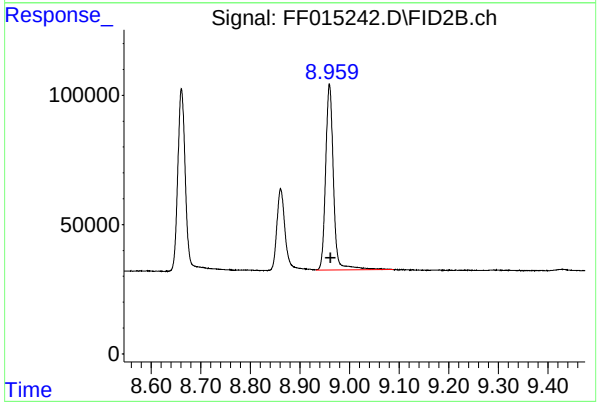
R.T.: 8.661 min
Delta R.T.: -0.001 min
Response: 759771
Conc: 4.63 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



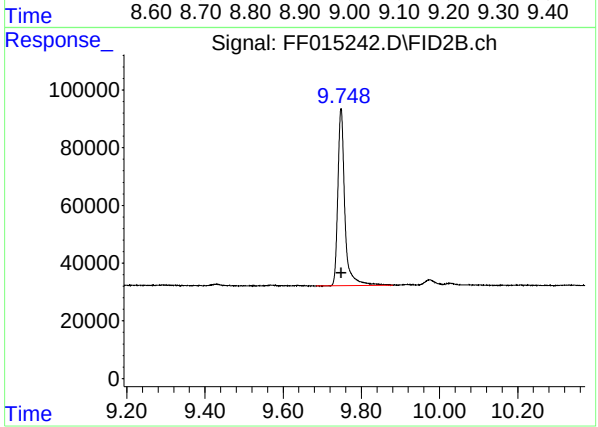
#6 2-Flurobiphenyl (SURR)

R.T.: 8.861 min
Delta R.T.: 0.000 min
Response: 364751
Conc: 4.17 ug/ml



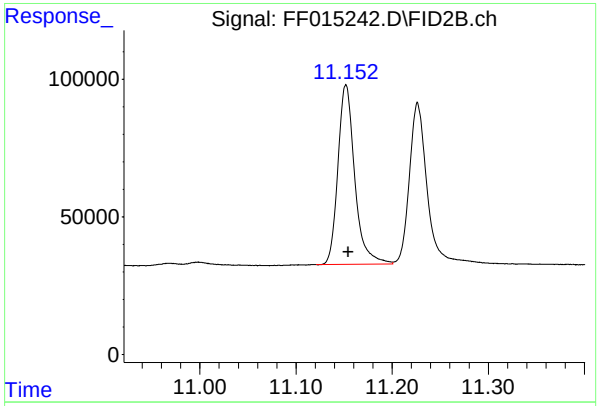
#7 Acenaphthene (C15.5)

R.T.: 8.959 min
Delta R.T.: -0.002 min
Response: 793818
Conc: 4.71 ug/ml



#8 Flouorene (C16.55)

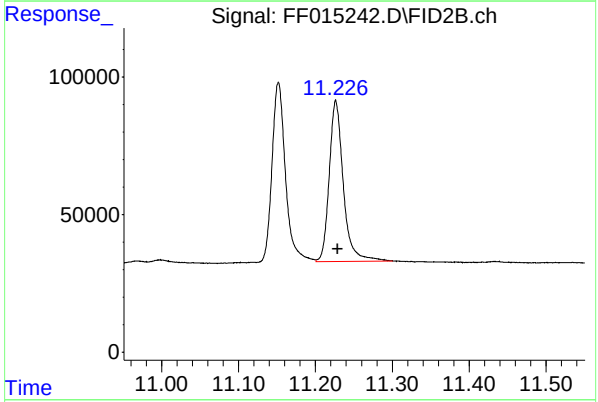
R.T.: 9.748 min
Delta R.T.: -0.001 min
Response: 761825
Conc: 4.70 ug/ml



#9 Phenanthrene (C19.36)

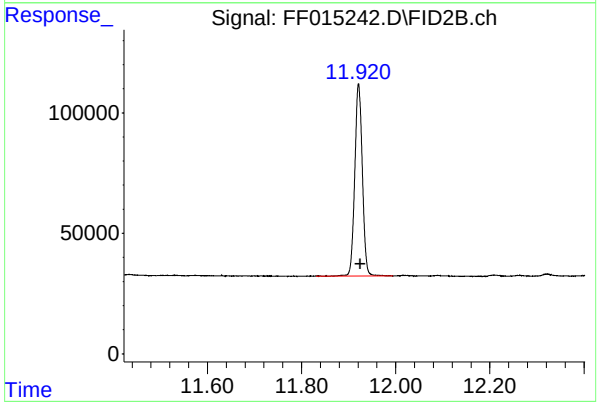
R.T.: 11.152 min
Delta R.T.: -0.002 min
Response: 794849
Conc: 4.84 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



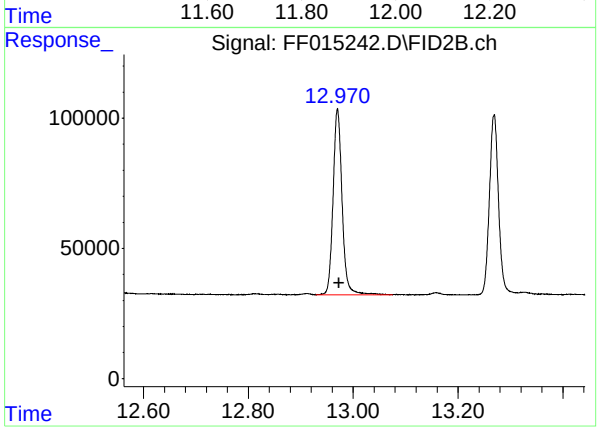
#10 Anthracene (C19.43)

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 745852
Conc: 4.91 ug/ml



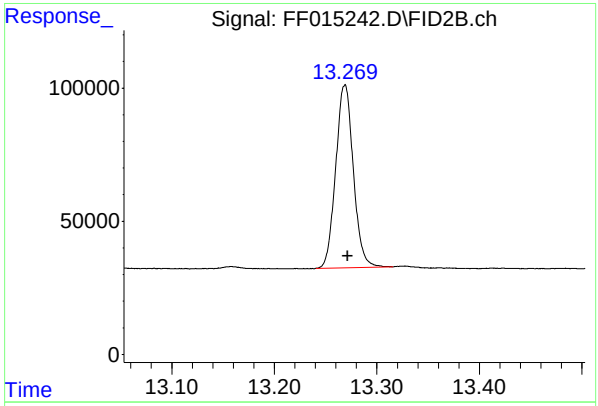
#11 ortho-Terphenyl (SURR)

R.T.: 11.921 min
Delta R.T.: -0.003 min
Response: 892597
Conc: 5.06 ug/ml



#12 Fluoranthene (C21.85)

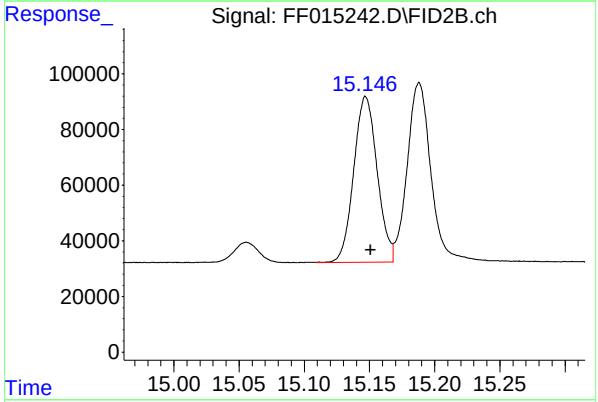
R.T.: 12.970 min
Delta R.T.: -0.003 min
Response: 853770
Conc: 5.05 ug/ml



#13 Pyrene (C20.8)

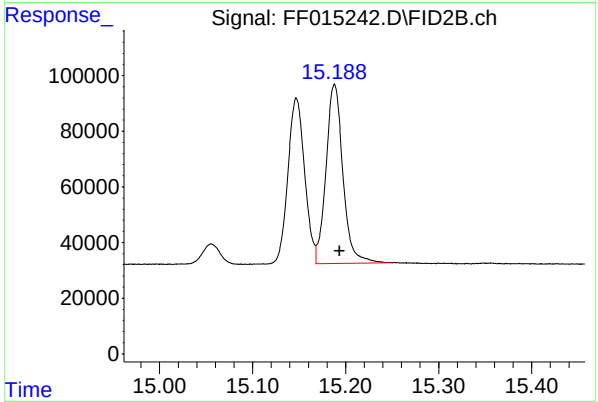
R.T.: 13.269 min
Delta R.T.: -0.003 min
Response: 819344
Conc: 4.91 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



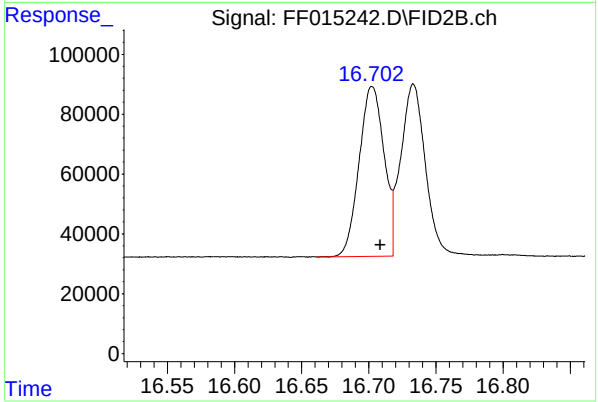
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.147 min
Delta R.T.: -0.004 min
Response: 744827
Conc: 4.87 ug/ml



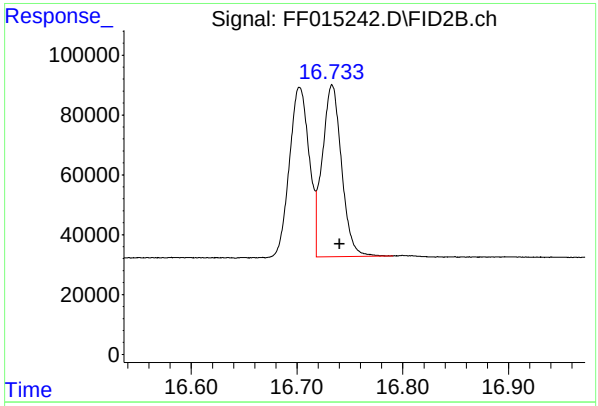
#15 Chrysene (C27.41)

R.T.: 15.188 min
Delta R.T.: -0.006 min
Response: 810280
Conc: 5.14 ug/ml



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

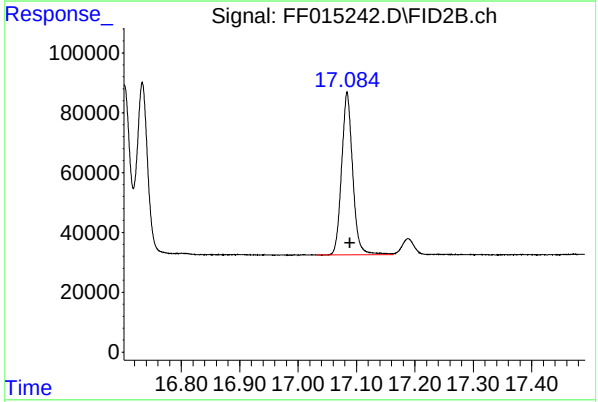
R.T.: 16.703 min
Delta R.T.: -0.006 min
Response: 734955
Conc: 4.84 ug/ml



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

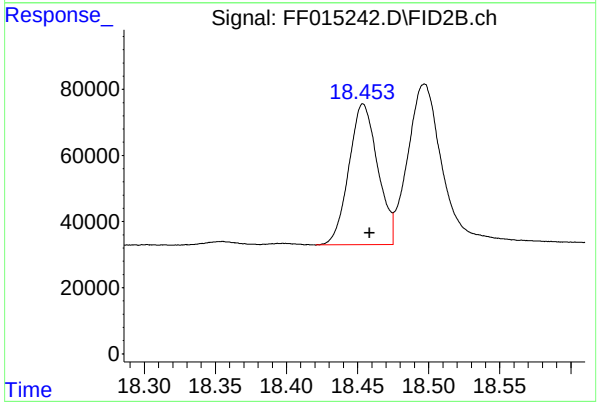
R.T.: 16.733 min
Delta R.T.: -0.007 min
Response: 729393
Conc: 5.09 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



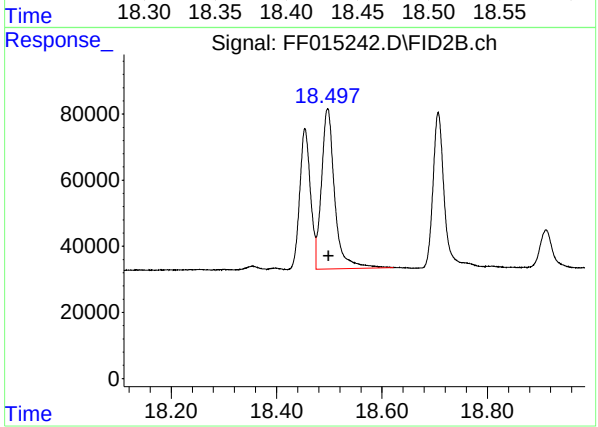
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.084 min
Delta R.T.: -0.005 min
Response: 717031
Conc: 4.96 ug/ml



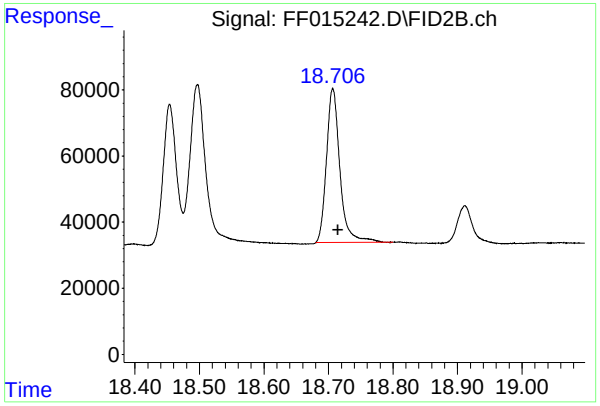
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.454 min
Delta R.T.: -0.004 min
Response: 599225
Conc: 4.68 ug/ml



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

R.T.: 18.497 min
Delta R.T.: -0.002 min
Response: 843394
Conc: 5.55 ug/ml



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

R.T.: 18.707 min
Delta R.T.: -0.008 mi
Response: 673965
Conc: 4.90 ug/m

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015242.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 20:39
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 011425.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	4.603	4.551	4.646	BB	84476	825147	92.44%	5.303%
2	6.269	6.209	6.334	BB	81283	789640	88.47%	5.075%
3	7.362	7.292	7.429	BB	74555	756966	84.80%	4.865%
4	7.989	7.919	8.064	BB	59871	610289	68.37%	3.922%
5	8.661	8.601	8.769	BB	70335	759771	85.12%	4.883%
6	8.861	8.831	8.932	BV	31550	364751	40.86%	2.344%
7	8.959	8.932	9.087	VB	72051	793818	88.93%	5.102%
8	9.748	9.684	9.881	BB	61470	761825	85.35%	4.896%
9	11.152	11.121	11.201	BV	65320	794849	89.05%	5.108%
10	11.227	11.201	11.301	VBA	58156	745852	83.56%	4.794%
11	11.921	11.831	11.994	BB	79755	892597	100.00%	5.737%
12	12.970	12.929	13.076	PB	71470	853770	95.65%	5.487%
13	13.269	13.241	13.316	BV	68718	819344	91.79%	5.266%
14	15.147	15.109	15.168	BV	59486	744827	83.44%	4.787%
15	15.188	15.168	15.251	VBA	64218	810280	90.78%	5.208%
16	16.703	16.661	16.718	BV	56748	734955	82.34%	4.724%
17	16.733	16.718	16.791	VBA	57464	729393	81.72%	4.688%
18	17.084	17.031	17.162	BV	54403	717031	80.33%	4.608%
19	18.454	18.421	18.475	PV	42311	592283	66.35%	3.807%
20	18.497	18.475	18.561	VBA	47888	788160	88.30%	5.065%
21	18.707	18.681	18.800	BBA	46587	673965	75.51%	4.332%
			Sum of corrected areas:			15559512		

Aromatic EPH 011425.M Wed Jan 15 05:57:25 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015243.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 21:35
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 15 07:06:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.989	2755908	20.878 ug/ml
	Spiked Amount 50.000		Recovery =	41.76%
6)	S 2-Flurobiphenyl (SURR)	8.862	1779655	21.084 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	42.17%
11)	S ortho-Terphenyl (SURR)	11.924	3509808	20.389 ug/ml
	Spiked Amount 50.000		Recovery =	40.78%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.602	3295617	20.546 ug/ml
2)	T Naphthalene (C11.7)	6.269	3305467	20.616 ug/ml
3)	T 2-Methylnaphthalene (...	7.363	3298655	20.744 ug/ml
5)	T Acenaphthylene (C15.06)	8.662	3308026	20.818 ug/ml
7)	T Acenaphthene (C15.5)	8.961	3385425	20.762 ug/ml
8)	T Flouorene (C16.55)	9.750	3261470	20.714 ug/ml
9)	T Phenanthrene (C19.36)	11.154	3284454	20.571 ug/ml
10)	T Anthracene (C19.43)	11.229	3029323	20.518 ug/ml
12)	T Fluoranthene (C21.85)	12.974	3368840	20.364 ug/ml
13)	T Pyrene (C20.8)	13.272	3319182	20.492 ug/ml
14)	T Benzo[a]anthracene (C...	15.152	3058267	20.500 ug/ml
15)	T Chrysene (C27.41)	15.194	3159259	20.339 ug/ml
16)	T benzo[b]fluoranthene ...	16.708	3049657	20.608 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.741	2880053	20.370 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.089	2916807	20.529 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.459	2591702	20.568 ug/ml
20)	T Dibenz[a,h]anthracene...	18.500	3059657	20.680 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.715	2761955	20.460 ug/ml

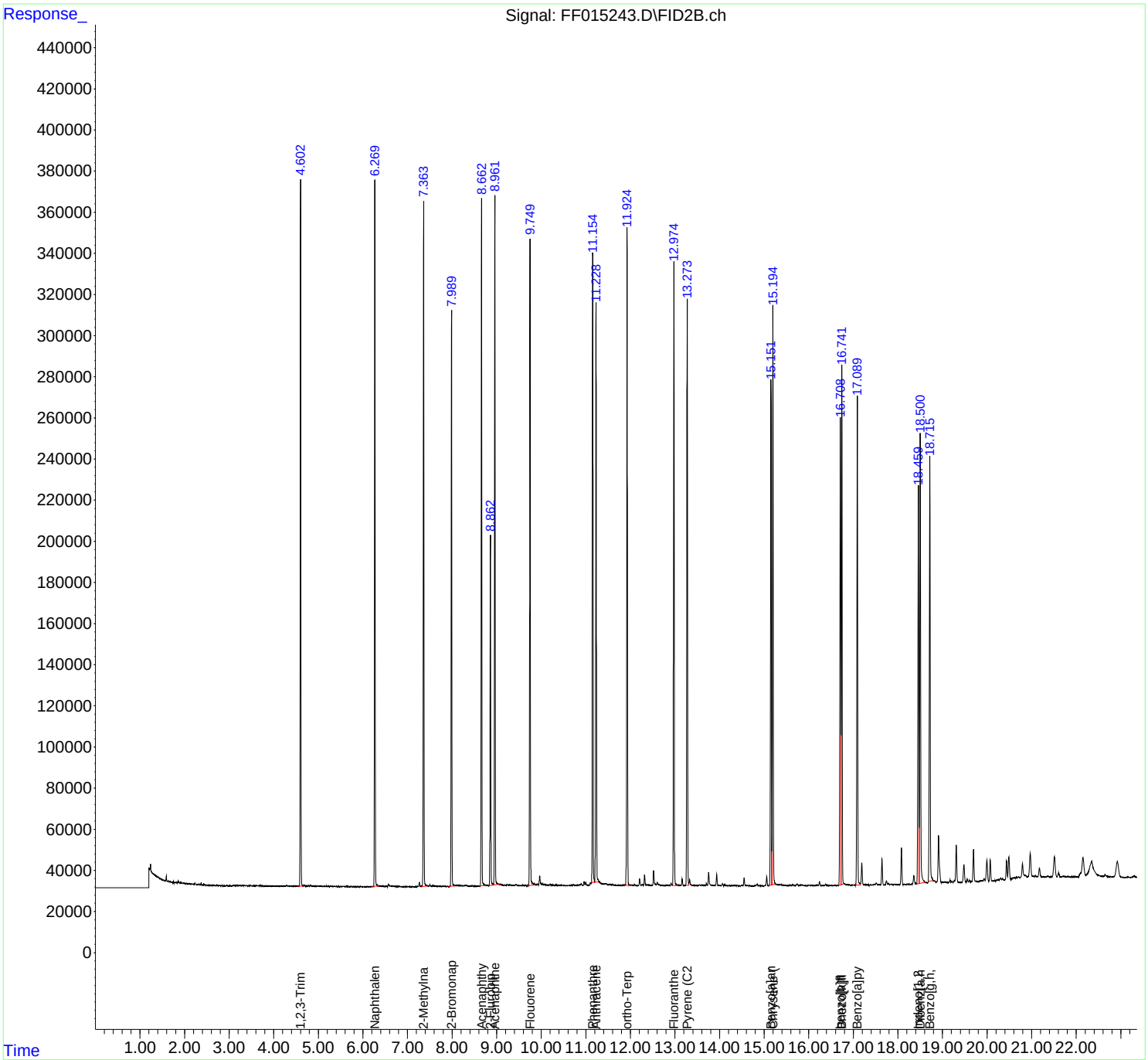
(f)=RT Delta > 1/2 Window (m)=manual int.

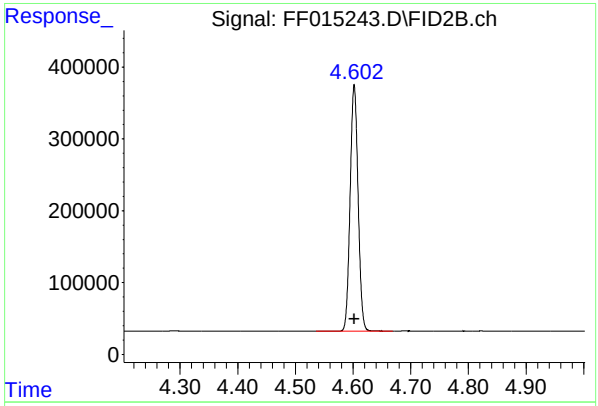
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF011425AR\
Data File : FF015243.D
Signal(s) : FID2B.ch
Acq On : 14 Jan 2025 21:35
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 15 07:06:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

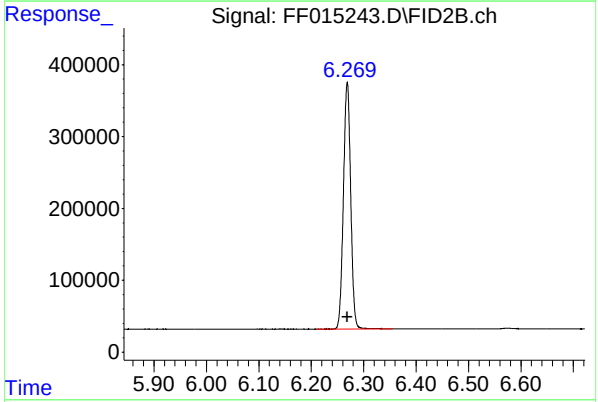




#1 1,2,3-Trimethylbenzene (C10.1)

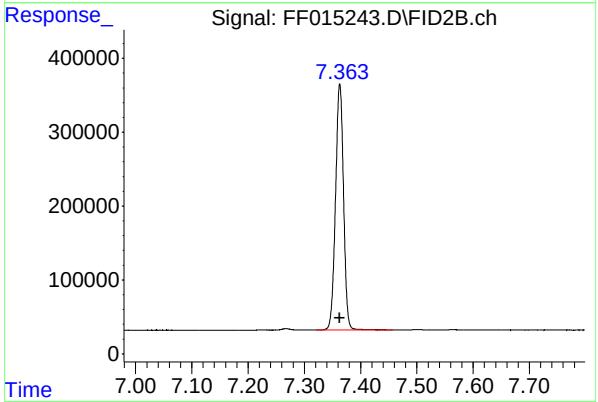
R.T.: 4.602 min
Delta R.T.: 0.000 min
Response: 3295617
Conc: 20.55 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



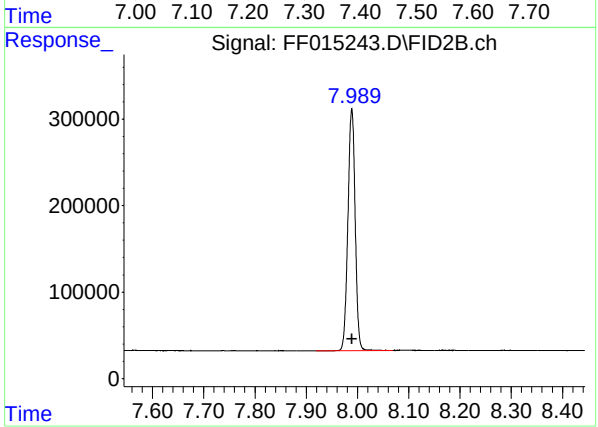
#2 Naphthalene (C11.7)

R.T.: 6.269 min
Delta R.T.: 0.000 min
Response: 3305467
Conc: 20.62 ug/ml



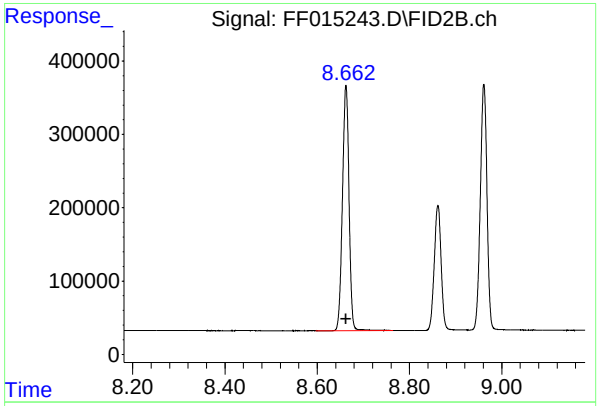
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.363 min
Delta R.T.: 0.000 min
Response: 3298655
Conc: 20.74 ug/ml



#4 2-Bromonaphthalene (SURR)

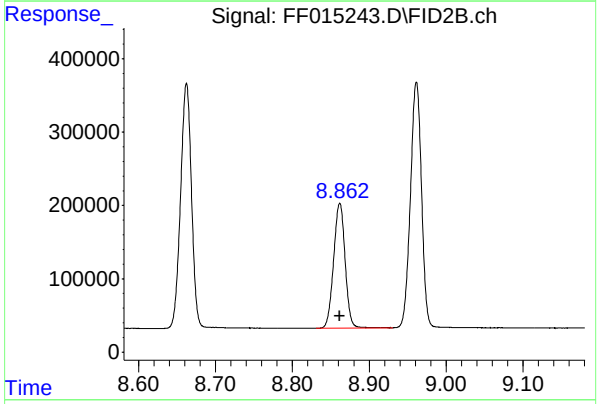
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 2755908
Conc: 20.88 ug/ml



#5 Acenaphthylene (C15.06)

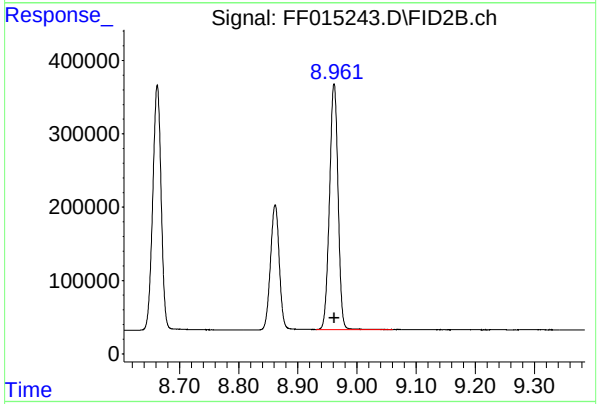
R.T.: 8.662 min
Delta R.T.: 0.000 min
Response: 3308026
Conc: 20.82 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



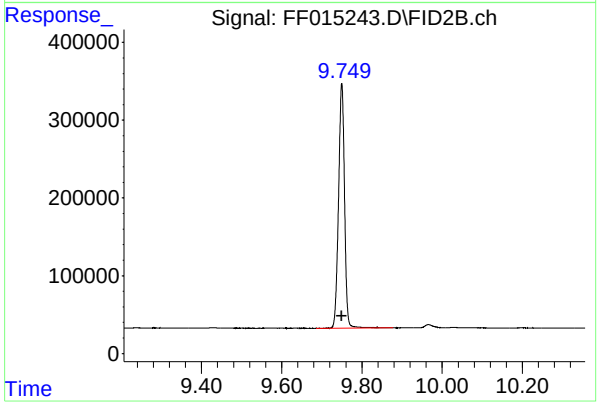
#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 1779655
Conc: 21.08 ug/ml



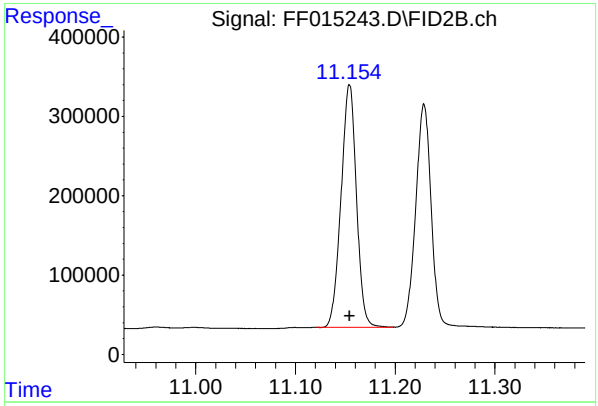
#7 Acenaphthene (C15.5)

R.T.: 8.961 min
Delta R.T.: 0.000 min
Response: 3385425
Conc: 20.76 ug/ml



#8 Flouorene (C16.55)

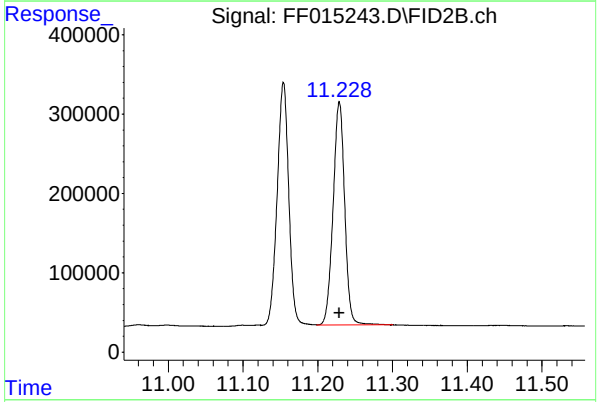
R.T.: 9.750 min
Delta R.T.: 0.000 min
Response: 3261470
Conc: 20.71 ug/ml



#9 Phenanthrene (C19.36)

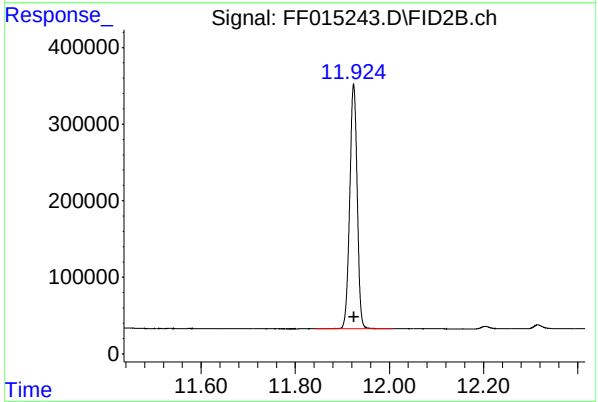
R.T.: 11.154 min
Delta R.T.: 0.000 min
Response: 3284454
Conc: 20.57 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



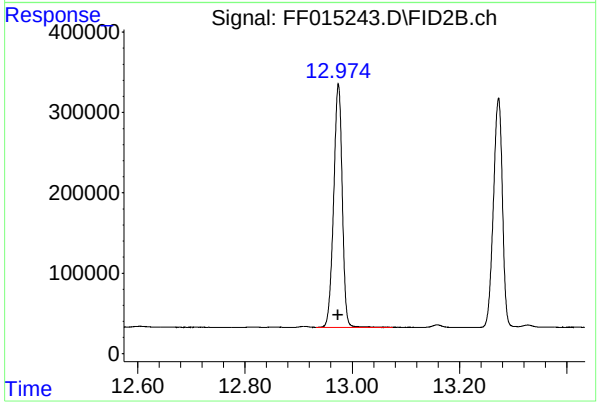
#10 Anthracene (C19.43)

R.T.: 11.229 min
Delta R.T.: 0.000 min
Response: 3029323
Conc: 20.52 ug/ml



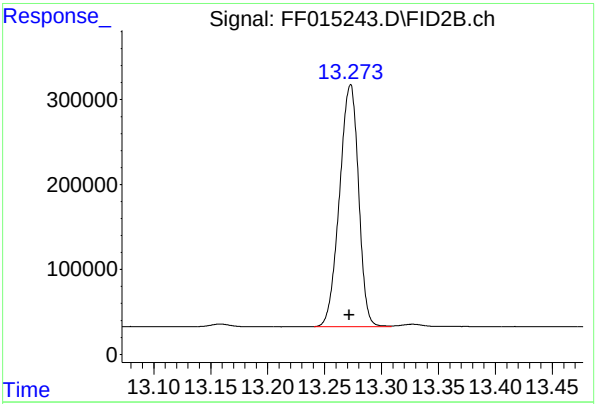
#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.000 min
Response: 3509808
Conc: 20.39 ug/ml



#12 Fluoranthene (C21.85)

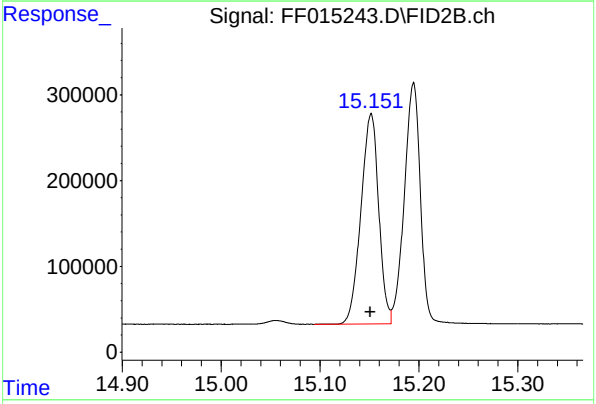
R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 3368840
Conc: 20.36 ug/ml



#13 Pyrene (C20.8)

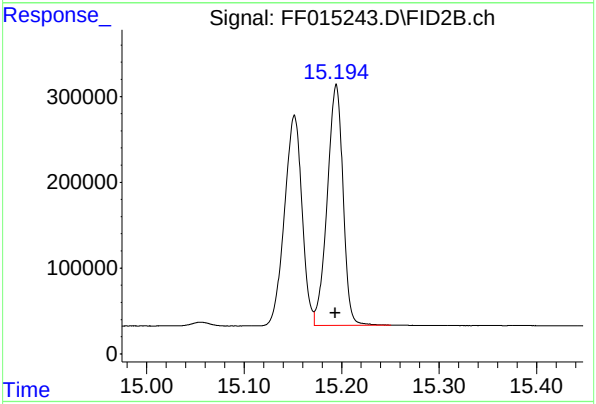
R.T.: 13.272 min
Delta R.T.: 0.000 min
Response: 3319182
Conc: 20.49 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



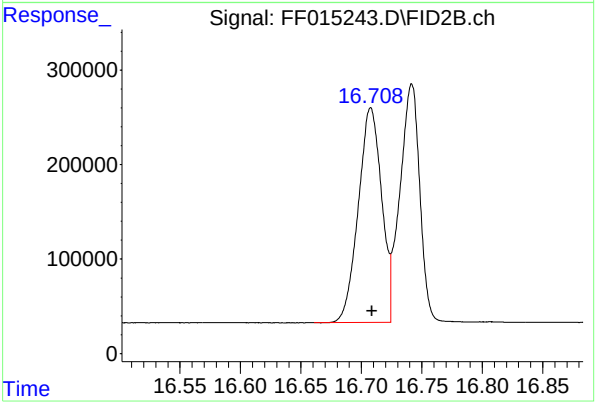
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.152 min
Delta R.T.: 0.000 min
Response: 3058267
Conc: 20.50 ug/ml



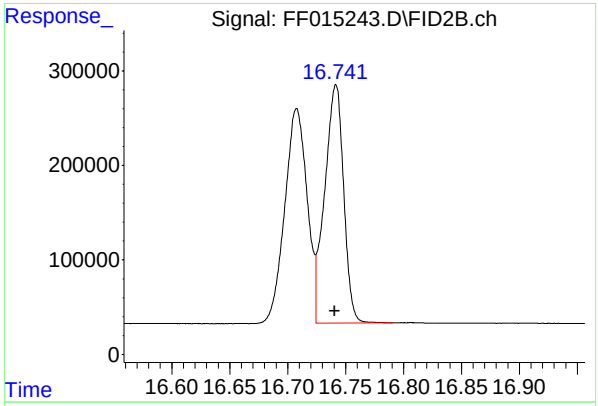
#15 Chrysene (C27.41)

R.T.: 15.194 min
Delta R.T.: 0.000 min
Response: 3159259
Conc: 20.34 ug/ml



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

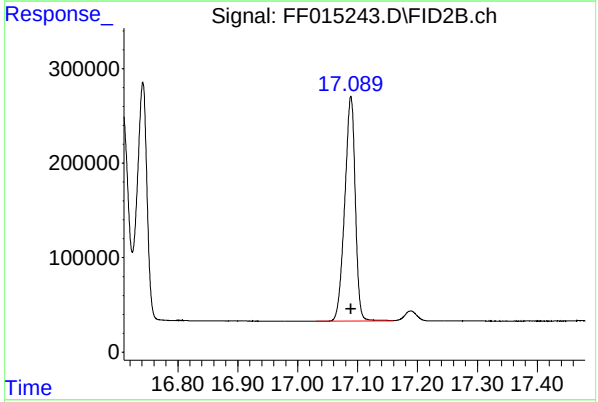
R.T.: 16.708 min
Delta R.T.: 0.000 min
Response: 3049657
Conc: 20.61 ug/ml



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

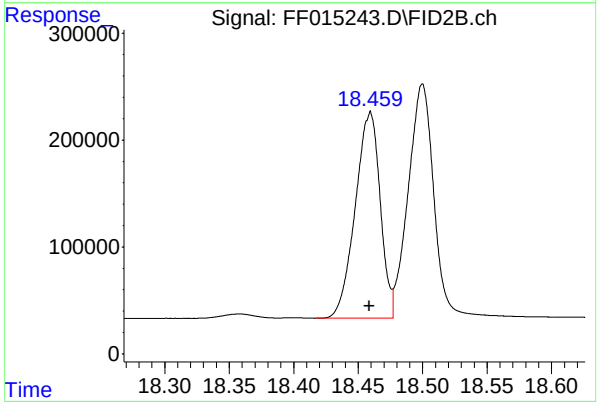
R.T.: 16.741 min
Delta R.T.: 0.000 min
Response: 2880053
Conc: 20.37 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



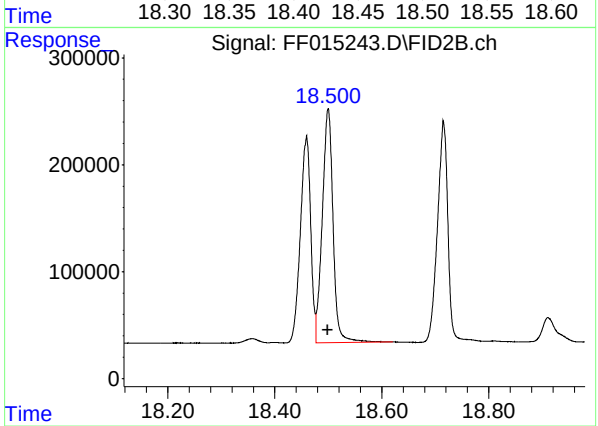
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.089 min
Delta R.T.: 0.000 min
Response: 2916807
Conc: 20.53 ug/ml



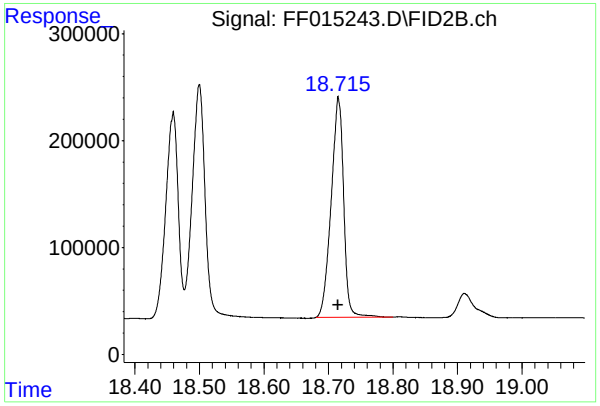
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.459 min
Delta R.T.: 0.000 min
Response: 2591702
Conc: 20.57 ug/ml



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

R.T.: 18.500 min
Delta R.T.: 0.000 min
Response: 3059657
Conc: 20.68 ug/ml



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

R.T.: 18.715 min
Delta R.T.: 0.000 mi
Response: 2761955
Conc: 20.46 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

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

Inital Calibration Report for SequenceID : FG011425AL

AreaCount

Parameter Range	FG015065.D	FG015066.D	FG015067.D	FG015068.D	FG015069.D	
Aliphatic C9-C12	37338222.000	18885892.000	8024842.000	4337273.000	2036305.000	
Aliphatic C12-C16	26609204.000	13446955.000	5681659.000	3063045.000	1433400.000	
Aliphatic C16-C21	40794587.000	20648058.000	8740875.000	4708602.000	2194851.000	
Aliphatic C21-C28	51414694.000	26225278.000	11042694.000	5907986.000	2762843.000	
Aliphatic C28-C40	57555754.000	29937954.000	12725662.000	6876373.000	3347374.000	
Aliphatic EPH	213712461.000	109144137.000	46215732.000	24893279.000	11774773.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	132888.6973328	6.129				
Aliphatic C12-C16	141209.859	5.709				
Aliphatic C16-C21	144518.7453332	5.781				
Aliphatic C21-C28	136707.72	5.456				
Aliphatic C28-C40	105590.3939996	7.402				
Aliphatic EPH	127500.8494442	6.127				

Concentration

Parameter Range	FG015065.D	FG015066.D	FG015067.D	FG015068.D	FG015069.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	FG015065.D	FG015066.D	FG015067.D	FG015068.D	FG015069.D	
Aliphatic C9-C12	124460.740000	125905.946666	133747.366666	144575.766666	135753.666666	
Aliphatic C12-C16	133046.020000	134469.550000	142041.475000	153152.250000	143340.000000	
Aliphatic C16-C21	135981.956666	137653.720000	145681.250000	156953.400000	146323.400000	

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

Inital Calibration Report for SequenceID : FG011425AL

Aliphatic C21-C28	128536.735000	131126.390000	138033.675000	147699.650000	138142.150000	
Aliphatic C28-C40	95926.256666	99793.180000	106047.183333	114606.216666	111579.133333	
Aliphatic EPH	118729.145000	121271.263333	128377.033333	138295.994444	130830.811111	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015065.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 09:35
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 14 10:44:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 10:41:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.953	14721312	96.661 ug/ml
Spiked Amount	50.000		Recovery =	193.32%
12) S	1-chlorooctadecane (S...	13.395	11570552	96.881 ug/ml
Spiked Amount	50.000		Recovery =	193.76%
	Target Compounds			
1) T	n-Nonane (C9)	3.290	12126828	96.242 ug/ml
2) T	n-Decane (C10)	4.551	12439608	96.345 ug/ml
3) T	A~Naphthalene (C11.7)	6.262	13728908	96.588 ug/ml
4) T	n-Dodecane (C12)	6.731	12771786	96.614 ug/ml
5) T	A~2-methylnaphthalene...	7.366	13445797	96.700 ug/ml
6) T	n-Tetradecane (C14)	8.569	12962485	96.793 ug/ml
7) T	n-Hexadecane (C16)	10.185	13646719	96.670 ug/ml
8) T	n-Octadecane (C18)	11.636	13955424	96.555 ug/ml
10) T	n-Eicosane (C20)	12.950	13516213	96.558 ug/ml
11) T	n-Heneicosane (C21)	13.565	13322950	96.557 ug/ml
13) T	n-Docosane (C22)	14.154	13256898	96.548 ug/ml
14) T	n-Tetracosane (C24)	15.261	13119448	96.535 ug/ml
15) T	n-Hexacosane (C26)	16.286	12753771	96.471 ug/ml
16) T	n-Octacosane (C28)	17.240	12284577	96.180 ug/ml
17) T	n-Tricontane (C30)	18.130	12117295	95.265 ug/ml
18) T	n-Dotriacontane (C32)	18.965	11357410	94.744 ug/ml
19) T	n-Tetratriacontane (C34)	19.747	9848384	94.898 ug/ml
20) T	n-Hexatriacontane (C36)	20.490	8488320	95.111 ug/ml
21) T	n-Octatriacontane (C38)	21.241	8002059	95.042 ug/ml
22) T	n-Tetracontane (C40)	22.182	7742286	94.845 ug/ml

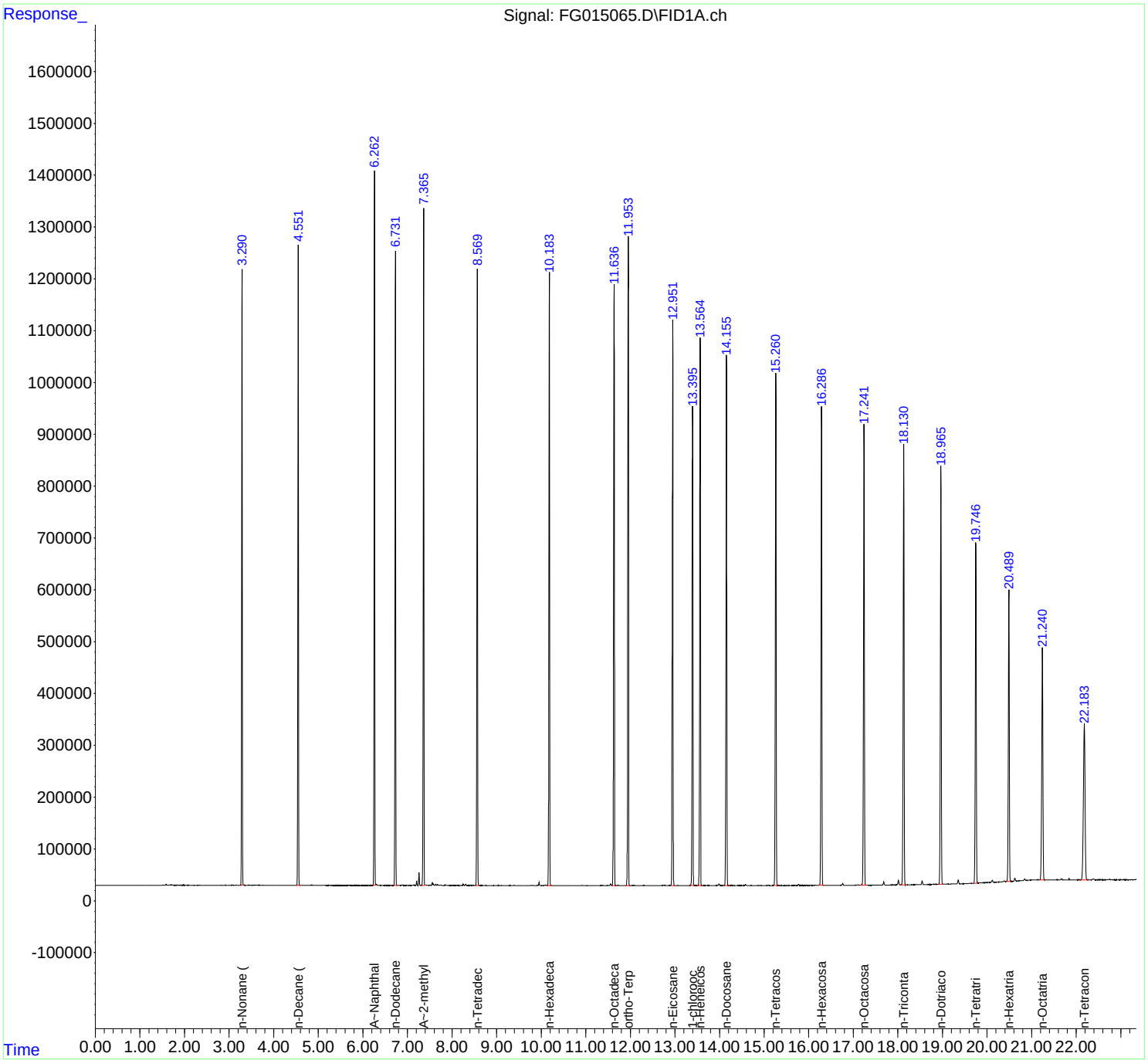
(f)=RT Delta > 1/2 Window (m)=manual int.

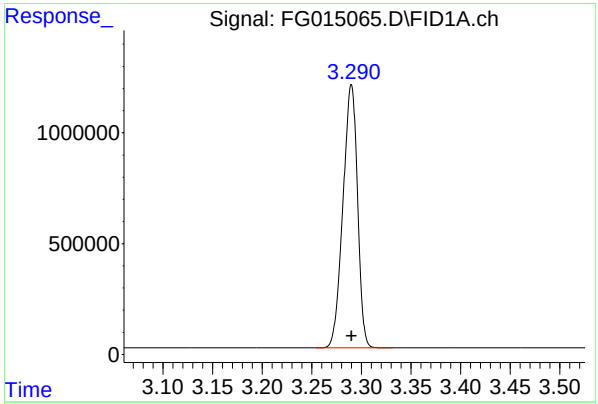
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015065.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 09:35
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Jan 14 10:44:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 10:41:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

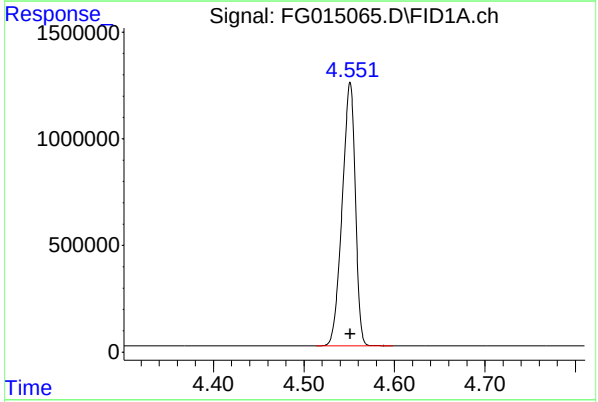




#1 n-Nonane (C9)

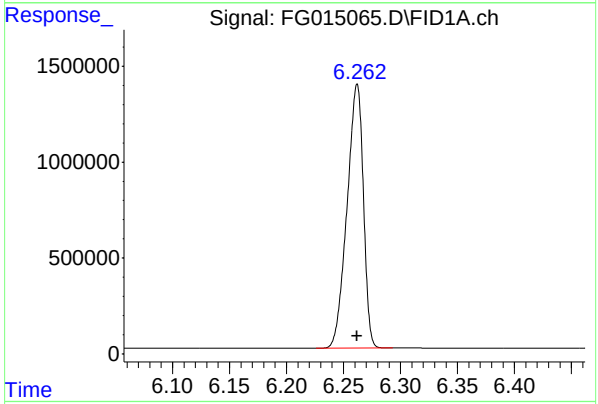
R.T.: 3.290 min
Delta R.T.: 0.000 min
Response: 12126828
Conc: 96.24 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



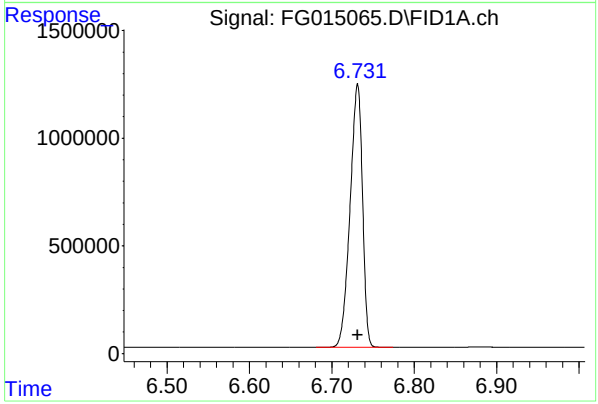
#2 n-Decane (C10)

R.T.: 4.551 min
Delta R.T.: 0.000 min
Response: 12439608
Conc: 96.34 ug/ml



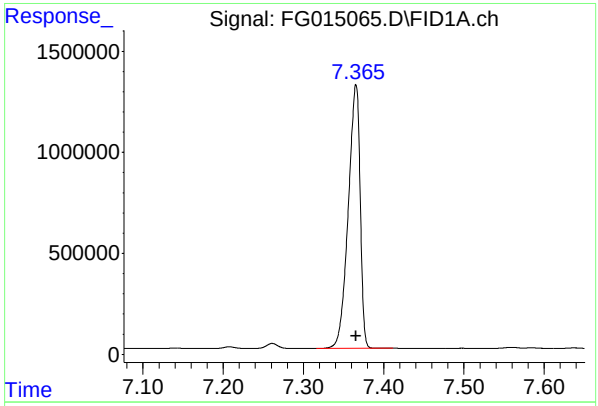
#3 A~Naphthalene (C11.7)

R.T.: 6.262 min
Delta R.T.: 0.000 min
Response: 13728908
Conc: 96.59 ug/ml



#4 n-Dodecane (C12)

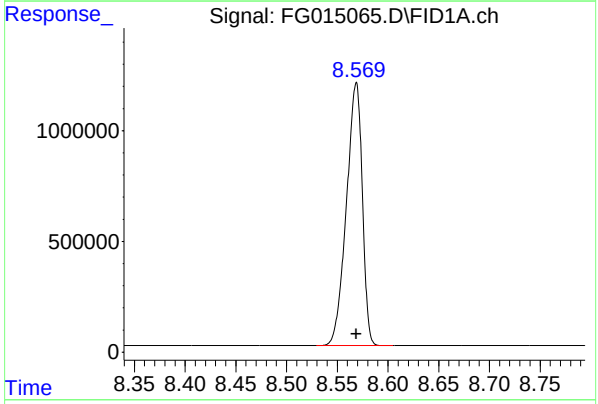
R.T.: 6.731 min
Delta R.T.: 0.000 min
Response: 12771786
Conc: 96.61 ug/ml



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

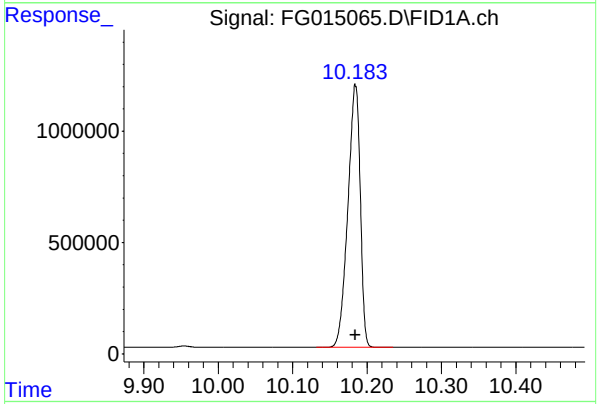
R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 13445797
Conc: 96.70 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



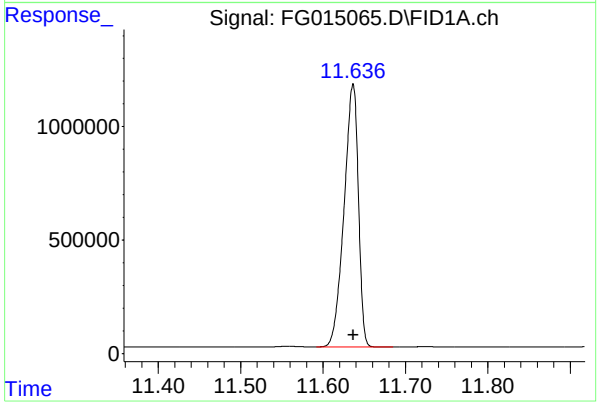
#6 n-Tetradecane (C14)

R.T.: 8.569 min
Delta R.T.: 0.000 min
Response: 12962485
Conc: 96.79 ug/ml



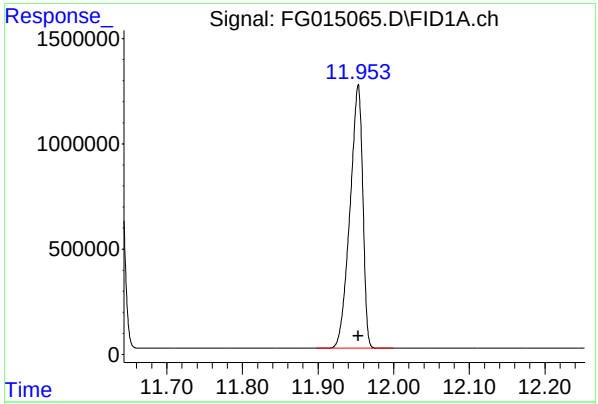
#7 n-Hexadecane (C16)

R.T.: 10.185 min
Delta R.T.: 0.000 min
Response: 13646719
Conc: 96.67 ug/ml



#8 n-Octadecane (C18)

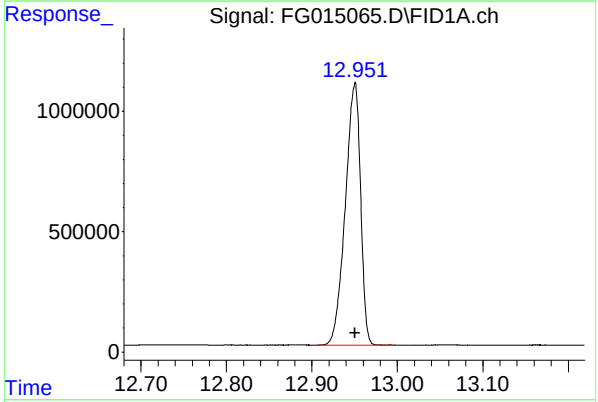
R.T.: 11.636 min
Delta R.T.: 0.000 min
Response: 13955424
Conc: 96.56 ug/ml



#9 ortho-Terphenyl (SURR)

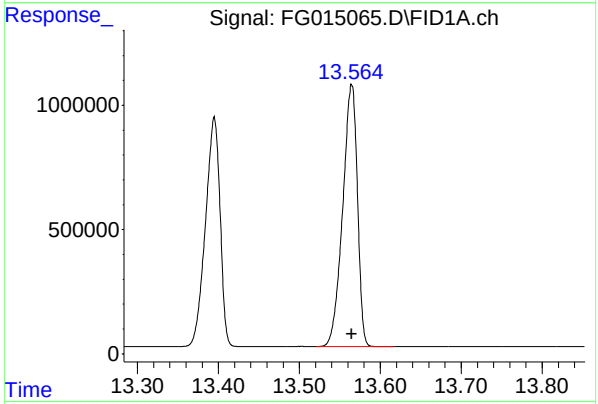
R.T.: 11.953 min
Delta R.T.: 0.000 min
Response: 14721312
Conc: 96.66 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



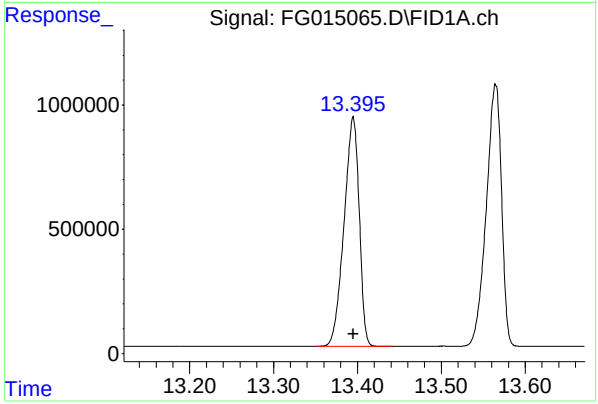
#10 n-Eicosane (C20)

R.T.: 12.950 min
Delta R.T.: 0.000 min
Response: 13516213
Conc: 96.56 ug/ml



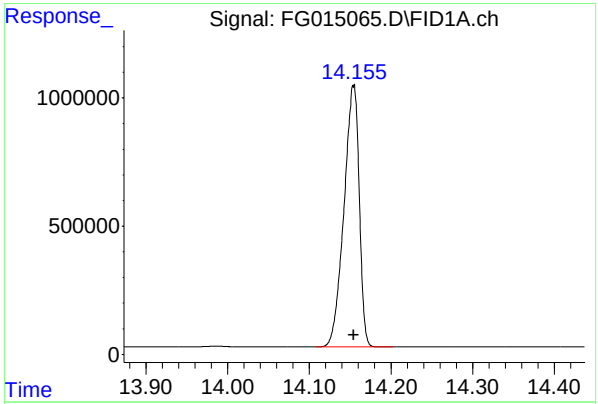
#11 n-Heneicosane (C21)

R.T.: 13.565 min
Delta R.T.: 0.000 min
Response: 13322950
Conc: 96.56 ug/ml



#12 1-chlorooctadecane (SURR)

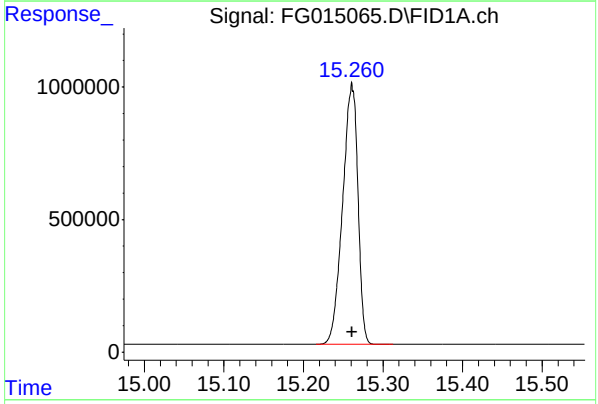
R.T.: 13.395 min
Delta R.T.: 0.000 min
Response: 11570552
Conc: 96.88 ug/ml



#13 n-Docosane (C22)

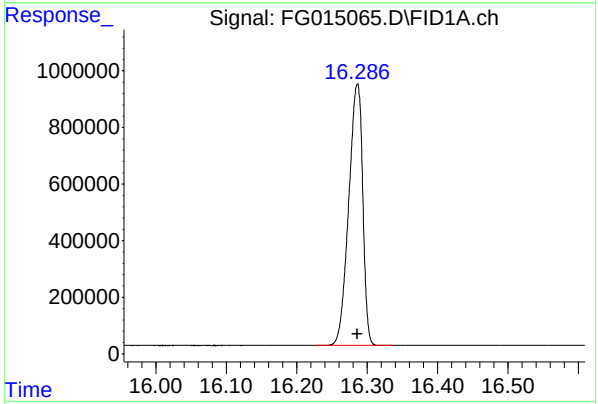
R.T.: 14.154 min
Delta R.T.: 0.000 min
Response: 13256898
Conc: 96.55 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



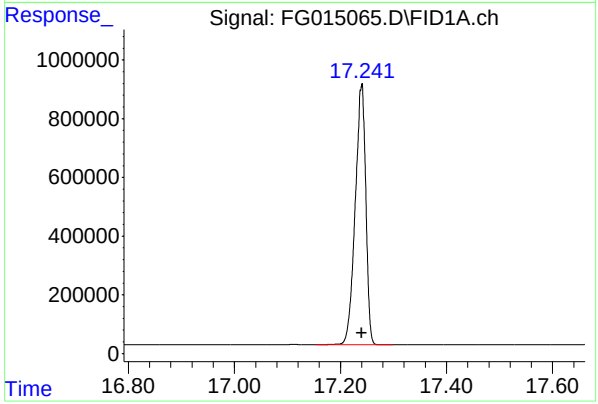
#14 n-Tetracosane (C24)

R.T.: 15.261 min
Delta R.T.: 0.000 min
Response: 13119448
Conc: 96.54 ug/ml



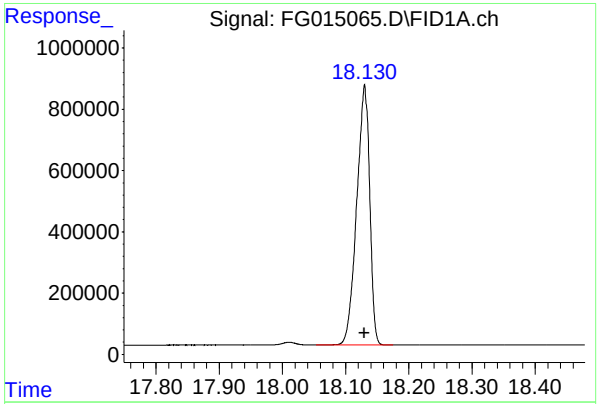
#15 n-Hexacosane (C26)

R.T.: 16.286 min
Delta R.T.: 0.000 min
Response: 12753771
Conc: 96.47 ug/ml



#16 n-Octacosane (C28)

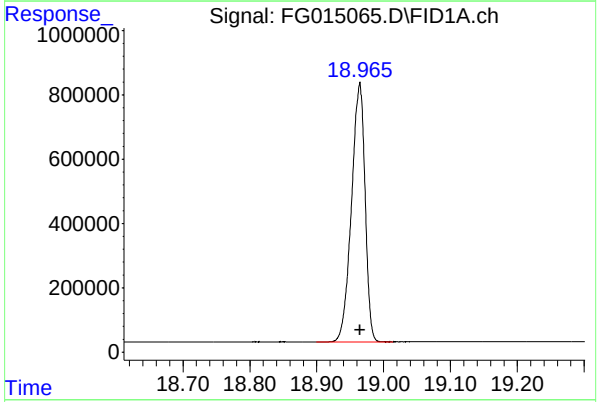
R.T.: 17.240 min
Delta R.T.: 0.000 min
Response: 12284577
Conc: 96.18 ug/ml



#17 n-Tricontane (C30)

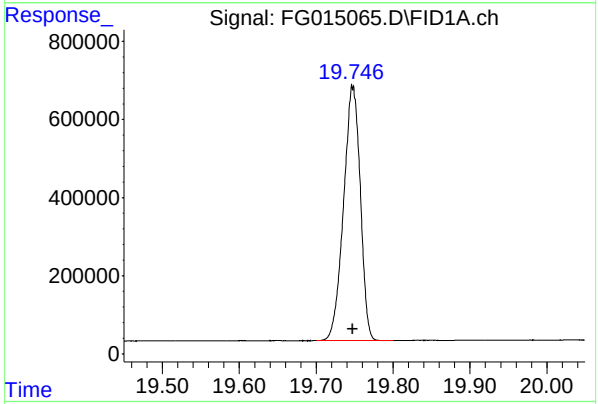
R.T.: 18.130 min
Delta R.T.: 0.000 min
Response: 12117295
Conc: 95.27 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



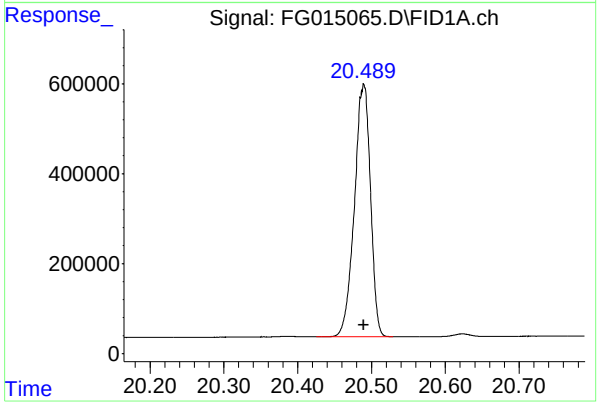
#18 n-Dotriacontane (C32)

R.T.: 18.965 min
Delta R.T.: 0.000 min
Response: 11357410
Conc: 94.74 ug/ml



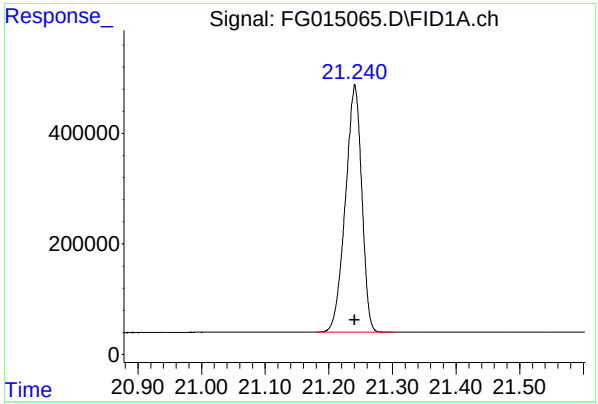
#19 n-Tetratriacontane (C34)

R.T.: 19.747 min
Delta R.T.: 0.000 min
Response: 9848384
Conc: 94.90 ug/ml



#20 n-Hexatriacontane (C36)

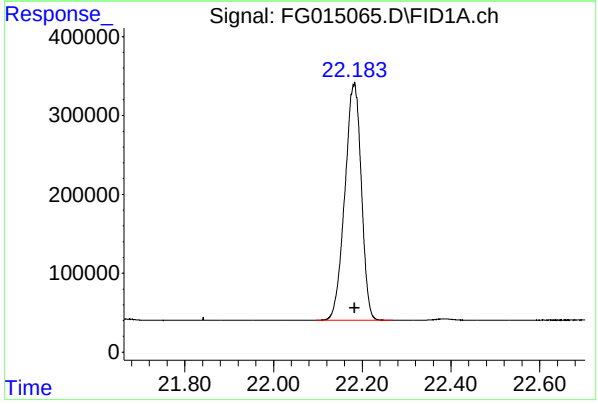
R.T.: 20.490 min
Delta R.T.: 0.000 min
Response: 8488320
Conc: 95.11 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.241 min
Delta R.T.: 0.000 min
Response: 8002059
Conc: 95.04 ug/ml

Instrument :
FID_G
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.182 min
Delta R.T.: 0.000 min
Response: 7742286
Conc: 94.84 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015065.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 09:35
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.290	3.254	3.332	BB	1188842	12126828	82.38%	4.539%
2	4.551	4.513	4.598	BB	1234741	12439608	84.50%	4.656%
3	6.262	6.226	6.293	BV	1376639	13728908	93.26%	5.138%
4	6.731	6.681	6.774	BB	1222412	12771786	86.76%	4.780%
5	7.366	7.316	7.412	BB	1303664	13445797	91.34%	5.033%
6	8.569	8.529	8.605	BB	1191150	12962485	88.05%	4.852%
7	10.185	10.132	10.235	BB	1178071	13646719	92.70%	5.108%
8	11.636	11.592	11.685	BB	1160372	13955424	94.80%	5.223%
9	11.953	11.898	11.999	BB	1253184	14721312	100.00%	5.510%
10	12.950	12.905	12.995	BB	1083884	13516213	91.81%	5.059%
11	13.395	13.351	13.443	BB	924316	11570552	78.60%	4.331%
12	13.565	13.521	13.616	BB	1050334	13322950	90.50%	4.987%
13	14.154	14.108	14.203	BB	1014780	13256898	90.05%	4.962%
14	15.261	15.216	15.313	BB	982738	13119448	89.12%	4.910%
15	16.286	16.227	16.337	BB	924037	12753771	86.63%	4.773%
16	17.240	17.154	17.299	BB	880957	12284577	83.45%	4.598%
17	18.130	18.053	18.175	BB	849105	12117295	82.31%	4.535%
18	18.965	18.899	19.014	BB	804627	11357410	77.15%	4.251%
19	19.747	19.700	19.800	BB	642564	9848384	66.90%	3.686%
20	20.490	20.425	20.529	BB	560861	8488320	57.66%	3.177%
21	21.241	21.180	21.301	BB	448281	8002059	54.36%	2.995%
22	22.182	22.096	22.269	BB	300990	7742286	52.59%	2.898%

Sum of corrected areas: 267179028

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015066.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 10:04
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 14 10:45:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 10:41:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.946	7437868	49.219 ug/ml
Spiked Amount	50.000		Recovery =	98.44%
12) S	1-chlorooctadecane (S...	13.391	5836752	49.242 ug/ml
Spiked Amount	50.000		Recovery =	98.48%
	Target Compounds			
1) T	n-Nonane (C9)	3.288	6139189	49.141 ug/ml
2) T	n-Decane (C10)	4.548	6294140	49.158 ug/ml
3) T	A~Naphthalene (C11.7)	6.258	6934772	49.186 ug/ml
4) T	n-Dodecane (C12)	6.728	6452563	49.201 ug/ml
5) T	A~2-methylnaphthalene...	7.360	6793040	49.230 ug/ml
6) T	n-Tetradecane (C14)	8.564	6546492	49.250 ug/ml
7) T	n-Hexadecane (C16)	10.179	6900463	49.248 ug/ml
8) T	n-Octadecane (C18)	11.630	7063598	49.242 ug/ml
10) T	n-Eicosane (C20)	12.945	6844759	49.260 ug/ml
11) T	n-Heneicosane (C21)	13.560	6739701	49.224 ug/ml
13) T	n-Docosane (C22)	14.149	6717972	49.279 ug/ml
14) T	n-Tetracosane (C24)	15.256	6684115	49.452 ug/ml
15) T	n-Hexacosane (C26)	16.282	6505634	49.470 ug/ml
16) T	n-Octacosane (C28)	17.234	6317557	49.640 ug/ml
17) T	n-Tricontane (C30)	18.125	6299830	49.685 ug/ml
18) T	n-Dotriacontane (C32)	18.959	5948426	49.747 ug/ml
19) T	n-Tetratriacontane (C34)	19.745	5130304	49.622 ug/ml
20) T	n-Hexatriacontane (C36)	20.485	4387407	49.437 ug/ml
21) T	n-Octatriacontane (C38)	21.235	4131630	49.378 ug/ml
22) T	n-Tetracontane (C40)	22.175	4040357	49.662 ug/ml

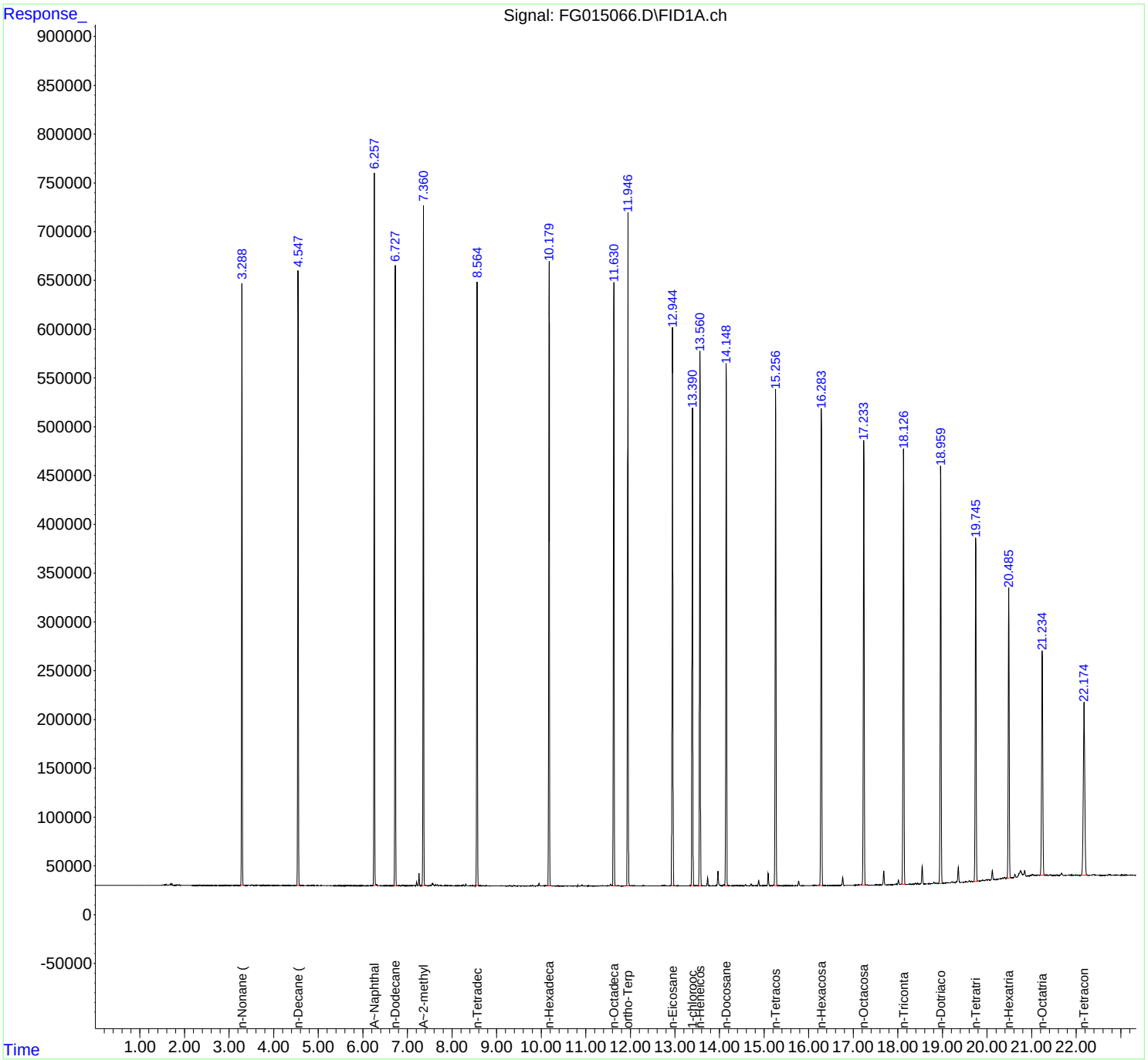
(f)=RT Delta > 1/2 Window (m)=manual int.

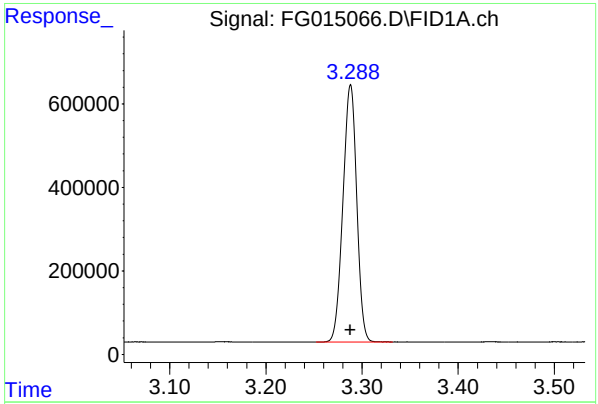
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015066.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 10:04
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Jan 14 10:45:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 10:41:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

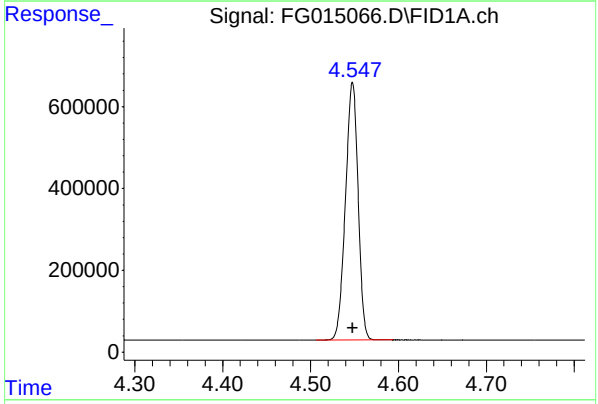




#1 n-Nonane (C9)

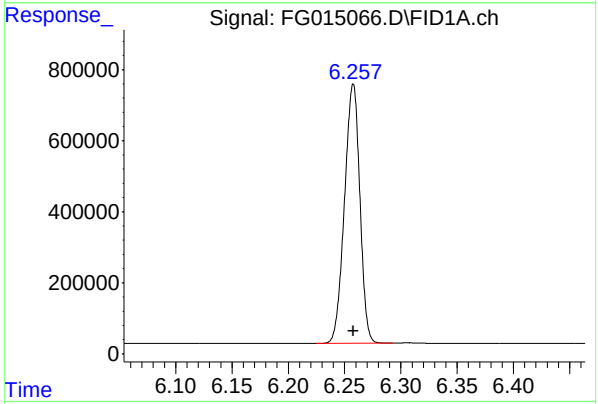
R.T.: 3.288 min
Delta R.T.: 0.000 min
Response: 6139189
Conc: 49.14 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



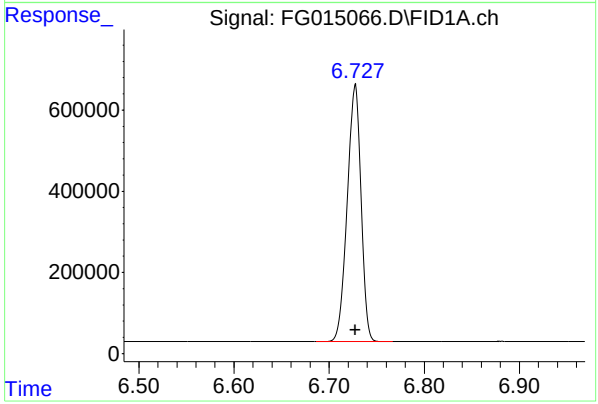
#2 n-Decane (C10)

R.T.: 4.548 min
Delta R.T.: 0.000 min
Response: 6294140
Conc: 49.16 ug/ml



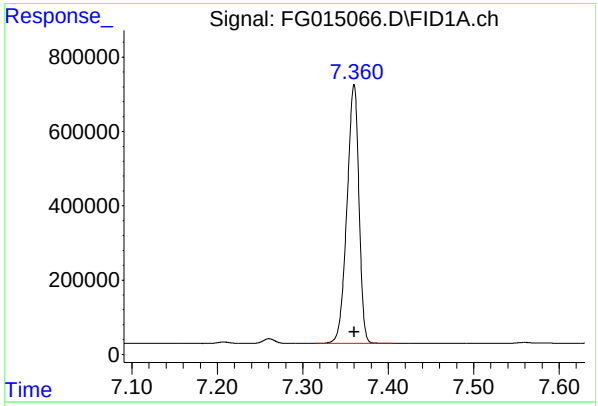
#3 A~Naphthalene (C11.7)

R.T.: 6.258 min
Delta R.T.: 0.000 min
Response: 6934772
Conc: 49.19 ug/ml



#4 n-Dodecane (C12)

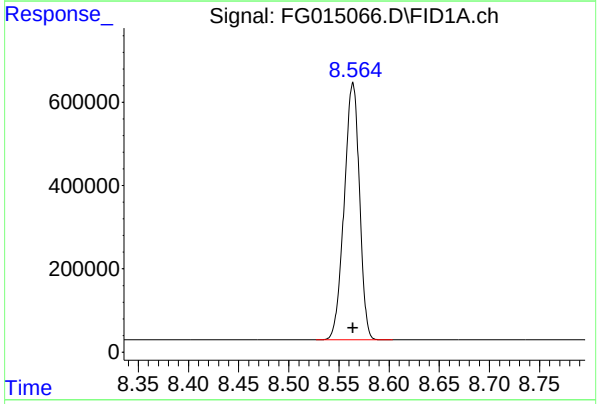
R.T.: 6.728 min
Delta R.T.: 0.000 min
Response: 6452563
Conc: 49.20 ug/ml



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

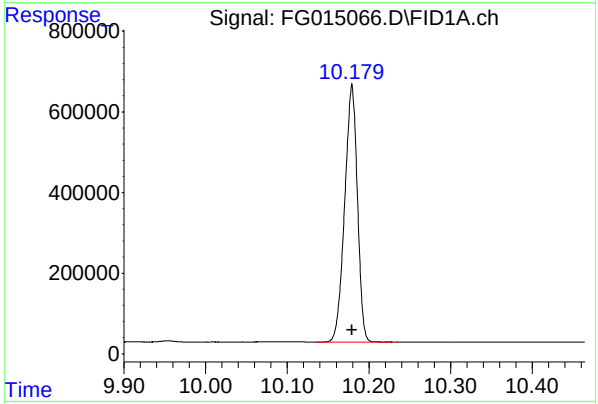
R.T.: 7.360 min
Delta R.T.: 0.000 min
Response: 6793040
Conc: 49.23 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



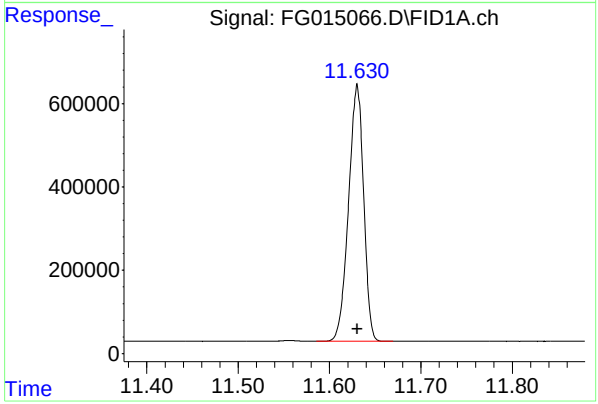
#6 n-Tetradecane (C14)

R.T.: 8.564 min
Delta R.T.: 0.000 min
Response: 6546492
Conc: 49.25 ug/ml



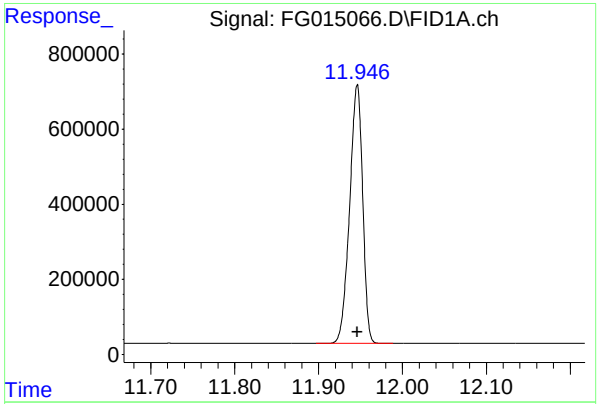
#7 n-Hexadecane (C16)

R.T.: 10.179 min
Delta R.T.: 0.000 min
Response: 6900463
Conc: 49.25 ug/ml



#8 n-Octadecane (C18)

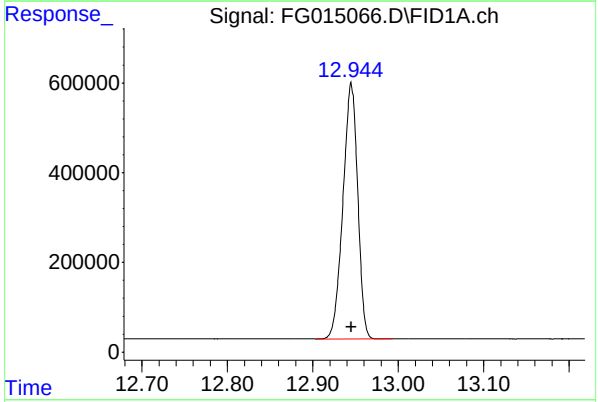
R.T.: 11.630 min
Delta R.T.: 0.000 min
Response: 7063598
Conc: 49.24 ug/ml



#9 ortho-Terphenyl (SURR)

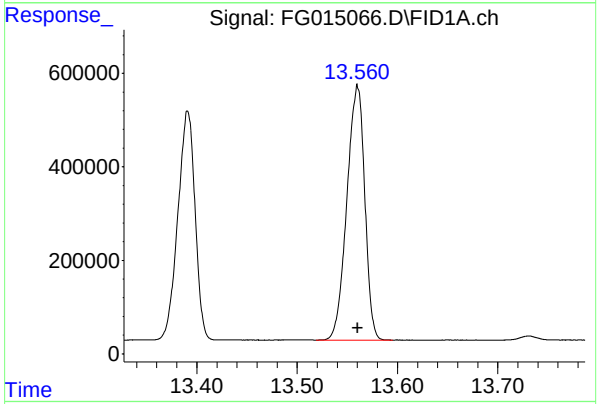
R.T.: 11.946 min
Delta R.T.: 0.000 min
Response: 7437868
Conc: 49.22 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



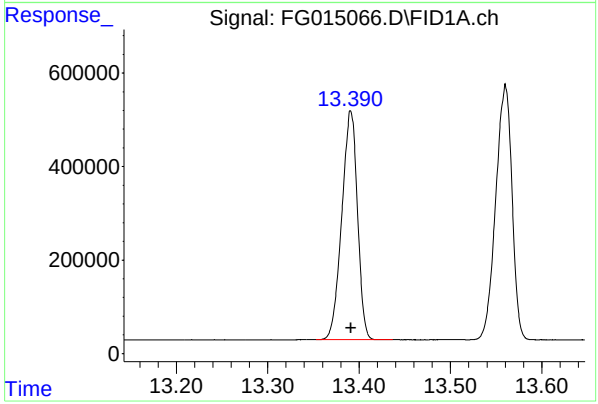
#10 n-Eicosane (C20)

R.T.: 12.945 min
Delta R.T.: 0.000 min
Response: 6844759
Conc: 49.26 ug/ml



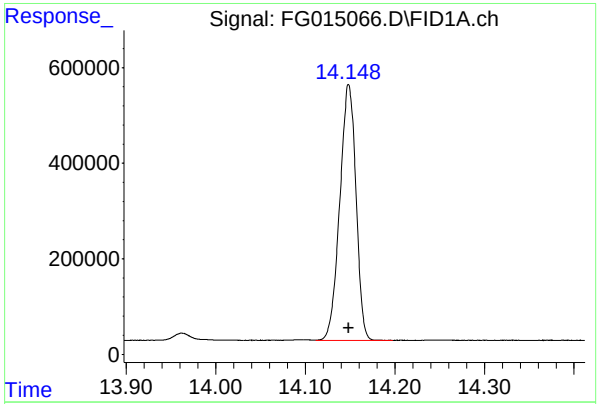
#11 n-Heneicosane (C21)

R.T.: 13.560 min
Delta R.T.: 0.000 min
Response: 6739701
Conc: 49.22 ug/ml



#12 1-chlorooctadecane (SURR)

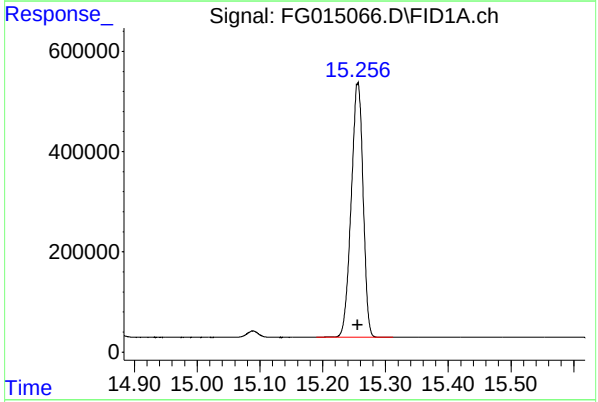
R.T.: 13.391 min
Delta R.T.: 0.000 min
Response: 5836752
Conc: 49.24 ug/ml



#13 n-Docosane (C22)

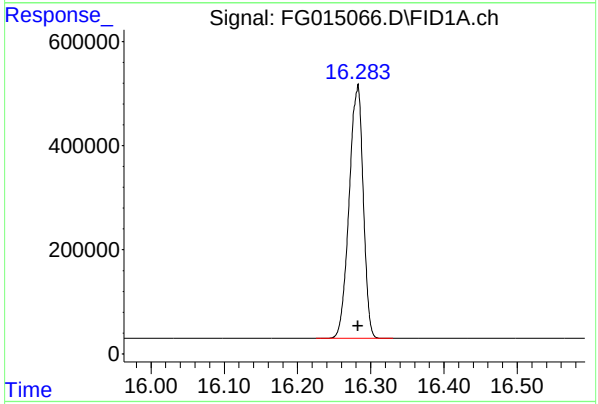
R.T.: 14.149 min
Delta R.T.: 0.000 min
Response: 6717972
Conc: 49.28 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



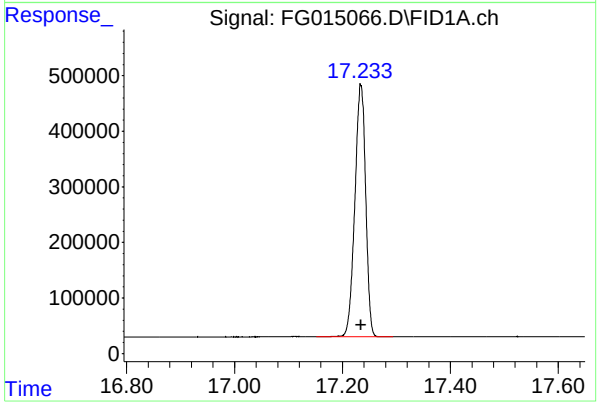
#14 n-Tetracosane (C24)

R.T.: 15.256 min
Delta R.T.: 0.000 min
Response: 6684115
Conc: 49.45 ug/ml



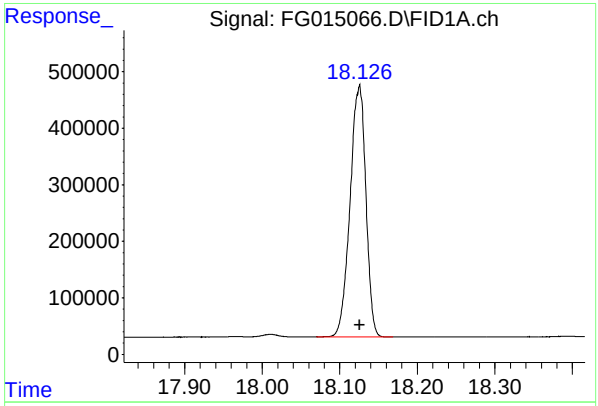
#15 n-Hexacosane (C26)

R.T.: 16.282 min
Delta R.T.: 0.000 min
Response: 6505634
Conc: 49.47 ug/ml



#16 n-Octacosane (C28)

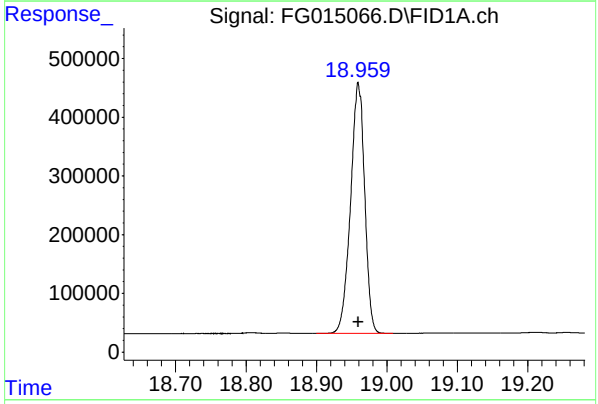
R.T.: 17.234 min
Delta R.T.: 0.000 min
Response: 6317557
Conc: 49.64 ug/ml



#17 n-Tricontane (C30)

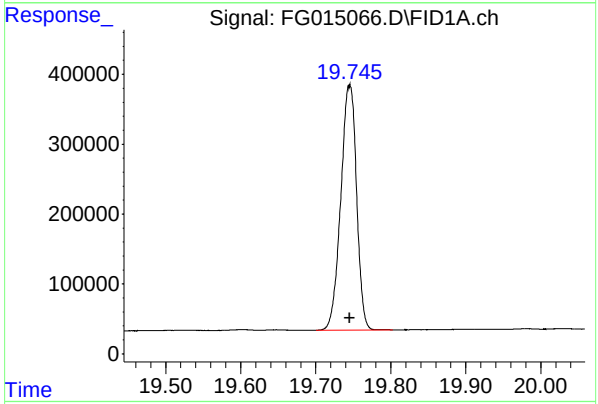
R.T.: 18.125 min
Delta R.T.: 0.000 min
Response: 6299830
Conc: 49.68 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



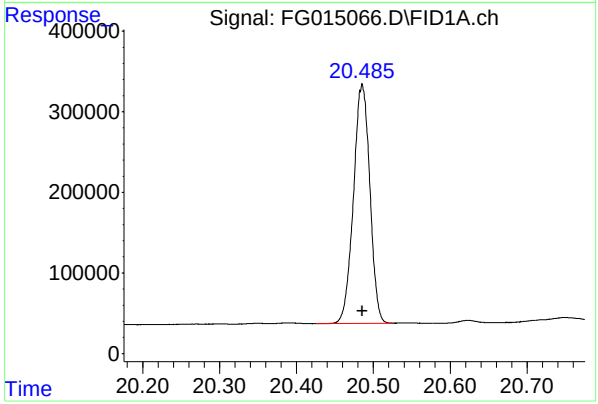
#18 n-Dotriacontane (C32)

R.T.: 18.959 min
Delta R.T.: 0.000 min
Response: 5948426
Conc: 49.75 ug/ml



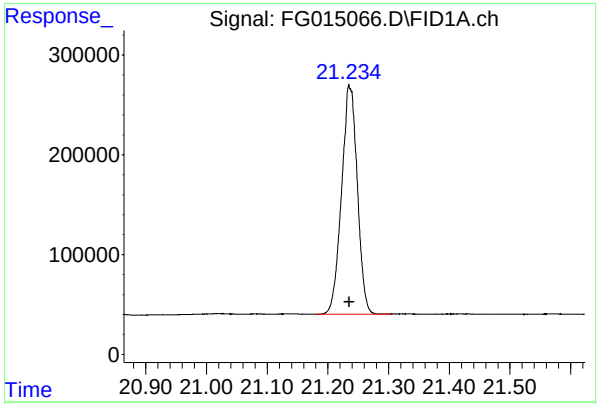
#19 n-Tetratriacontane (C34)

R.T.: 19.745 min
Delta R.T.: 0.000 min
Response: 5130304
Conc: 49.62 ug/ml



#20 n-Hexatriacontane (C36)

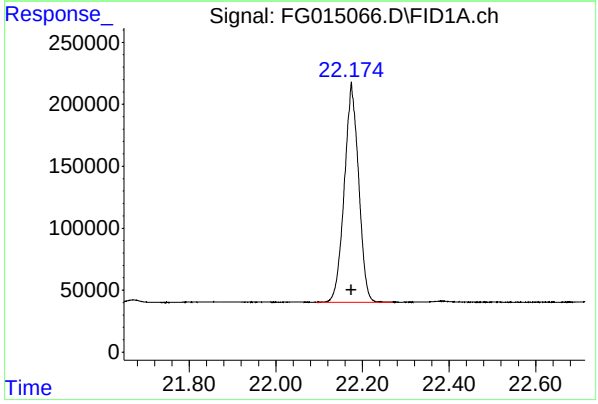
R.T.: 20.485 min
Delta R.T.: 0.000 min
Response: 4387407
Conc: 49.44 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.235 min
Delta R.T.: 0.000 min
Response: 4131630
Conc: 49.38 ug/ml

Instrument :
FID_G
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.175 min
Delta R.T.: 0.000 min
Response: 4040357
Conc: 49.66 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015066.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 10:04
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.288	3.252	3.332	BB	616013	6139189	82.54%	4.509%
2	4.548	4.506	4.594	BB	629575	6294140	84.62%	4.623%
3	6.258	6.224	6.293	BV	730177	6934772	93.24%	5.094%
4	6.728	6.686	6.767	BB	636307	6452563	86.75%	4.739%
5	7.360	7.315	7.405	BB	697829	6793040	91.33%	4.990%
6	8.564	8.527	8.604	BB	617739	6546492	88.02%	4.808%
7	10.179	10.135	10.230	BB	639140	6900463	92.77%	5.068%
8	11.630	11.585	11.670	BB	617730	7063598	94.97%	5.188%
9	11.946	11.897	11.989	BB	688793	7437868	100.00%	5.463%
10	12.945	12.904	12.994	BB	569289	6844759	92.03%	5.027%
11	13.391	13.353	13.437	BB	488496	5836752	78.47%	4.287%
12	13.560	13.519	13.595	BB	544182	6739701	90.61%	4.950%
13	14.149	14.112	14.198	VB	534750	6717972	90.32%	4.934%
14	15.256	15.190	15.312	BB	506422	6684115	89.87%	4.909%
15	16.283	16.225	16.330	BB	489330	6505634	87.47%	4.778%
16	17.234	17.151	17.294	BB	452365	6317557	84.94%	4.640%
17	18.125	18.070	18.169	BB	443869	6299830	84.70%	4.627%
18	18.959	18.900	19.009	BB	426588	5948426	79.97%	4.369%
19	19.745	19.700	19.803	BB	350457	5130304	68.98%	3.768%
20	20.485	20.425	20.525	BB	297477	4387407	58.99%	3.223%
21	21.235	21.180	21.307	BB	228329	4131630	55.55%	3.035%
22	22.175	22.093	22.270	BB	177364	4040357	54.32%	2.968%

Sum of corrected areas: 136146565

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015067.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 10:32
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 14 10:42:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 10:41:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.942	3147685	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
12)	S 1-chlorooctadecane (S...	13.388	2463128	20.000 ug/ml
	Spiked Amount 50.000		Recovery = 40.00%	
	Target Compounds			
1)	T n-Nonane (C9)	3.286	2614767	20.000 ug/ml
2)	T n-Decane (C10)	4.546	2676689	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	6.255	2939792	20.000 ug/ml
4)	T n-Dodecane (C12)	6.725	2733386	20.000 ug/ml
5)	T A~2-methylnaphthalene...	7.357	2872724	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.562	2764267	20.000 ug/ml
7)	T n-Hexadecane (C16)	10.177	2917392	20.000 ug/ml
8)	T n-Octadecane (C18)	11.626	2990249	20.000 ug/ml
10)	T n-Eicosane (C20)	12.942	2895988	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.556	2854638	20.000 ug/ml
13)	T n-Docosane (C22)	14.146	2840997	20.000 ug/ml
14)	T n-Tetracosane (C24)	15.253	2812228	20.000 ug/ml
15)	T n-Hexacosane (C26)	16.278	2737370	20.000 ug/ml
16)	T n-Octacosane (C28)	17.230	2652099	20.000 ug/ml
17)	T n-Tricontane (C30)	18.120	2664360	20.000 ug/ml
18)	T n-Dotriacontane (C32)	18.958	2523491	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.742	2181450	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	20.483	1872181	20.000 ug/ml
21)	T n-Octatriacontane (C38)	21.233	1767390	20.000 ug/ml
22)	T n-Tetracontane (C40)	22.172	1716790	20.000 ug/ml

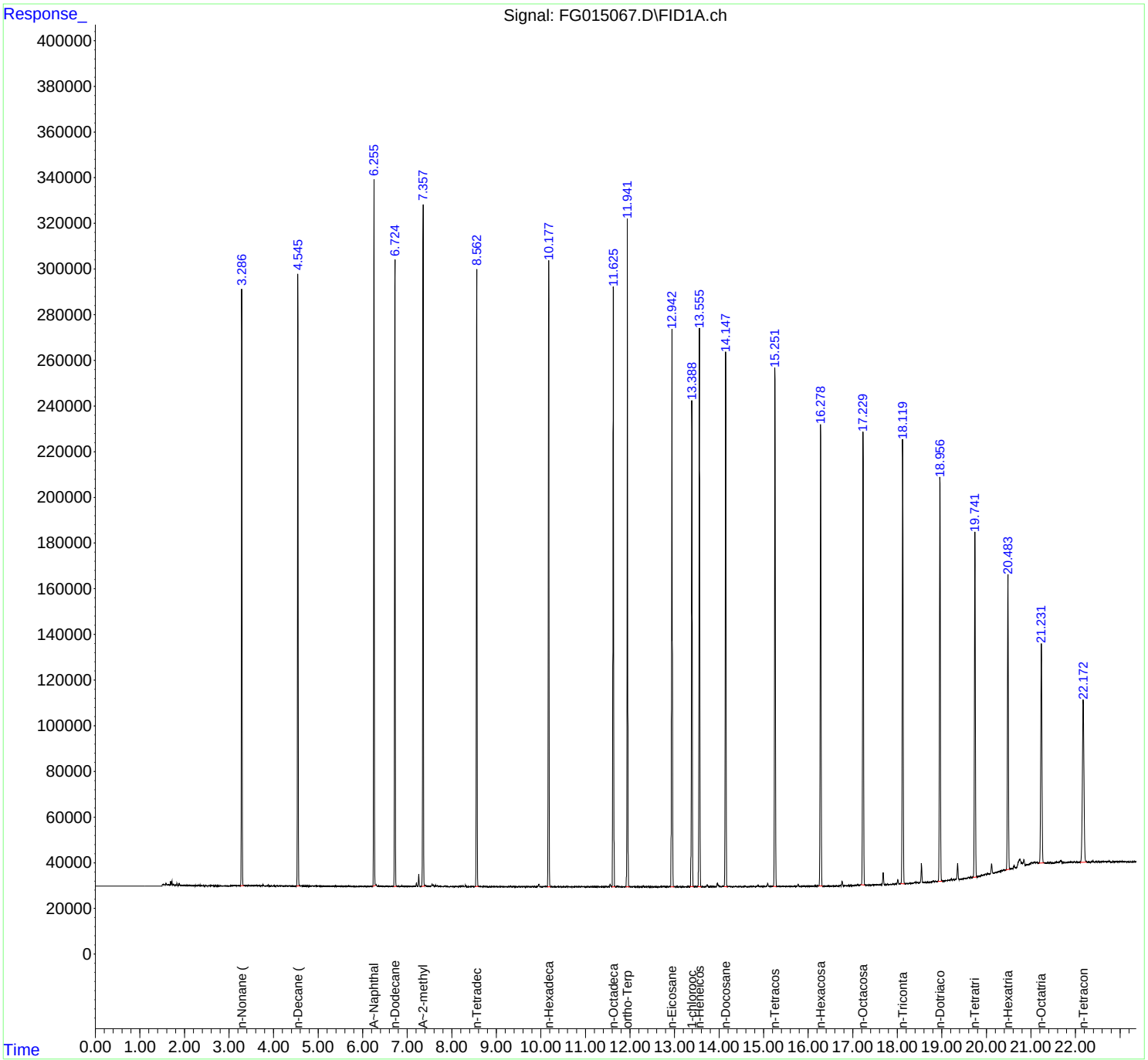
(f)=RT Delta > 1/2 Window (m)=manual int.

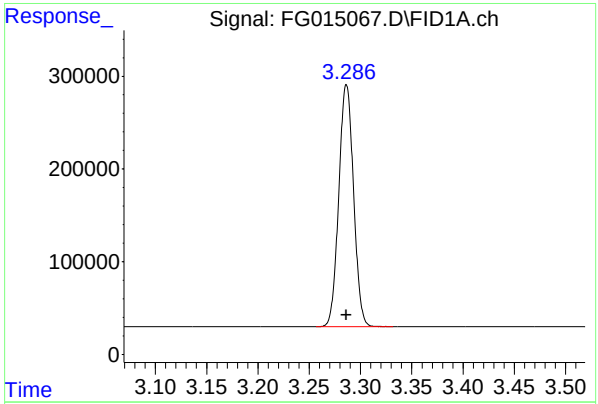
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015067.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 10:32
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Jan 14 10:42:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 10:41:47 2025
Response via : Initial Calibration
Integrator: ChemStation

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

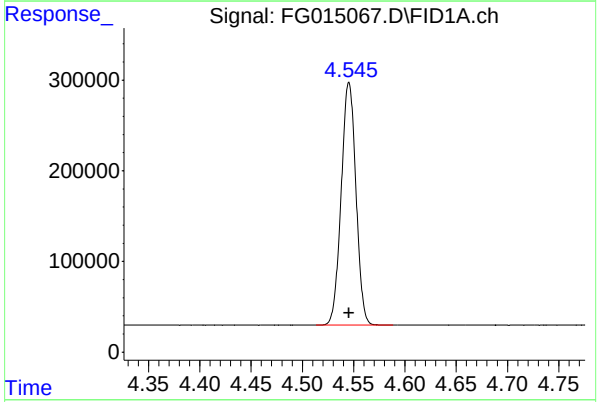




#1 n-Nonane (C9)

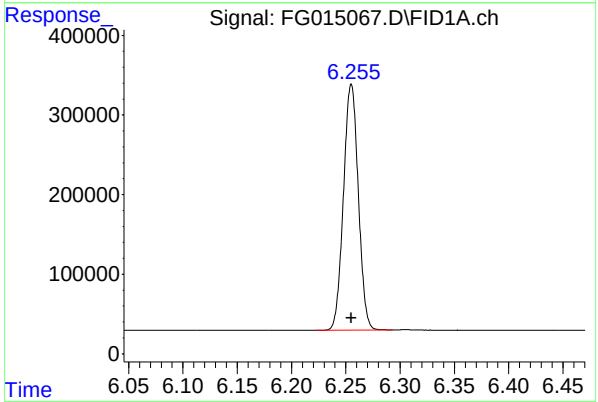
R.T.: 3.286 min
Delta R.T.: 0.000 min
Response: 2614767
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



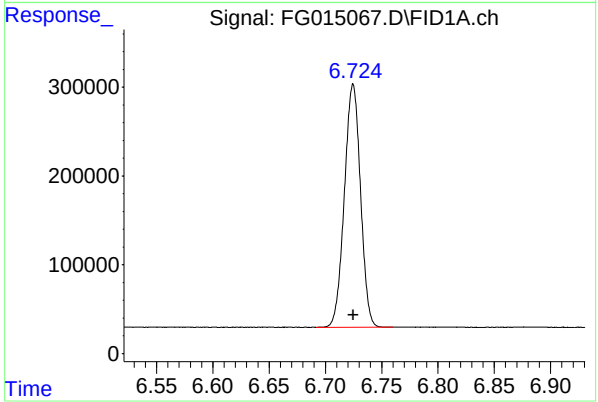
#2 n-Decane (C10)

R.T.: 4.546 min
Delta R.T.: 0.000 min
Response: 2676689
Conc: 20.00 ug/ml



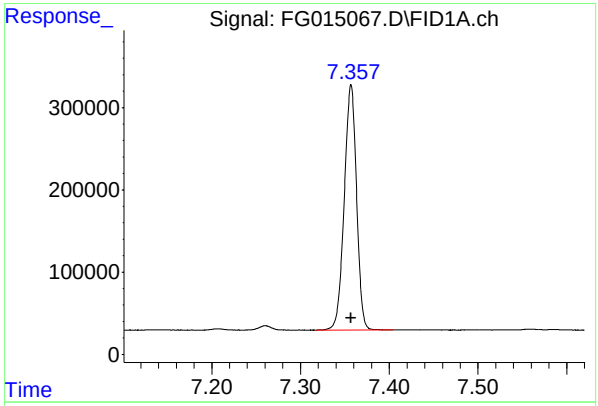
#3 A~Naphthalene (C11.7)

R.T.: 6.255 min
Delta R.T.: 0.000 min
Response: 2939792
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

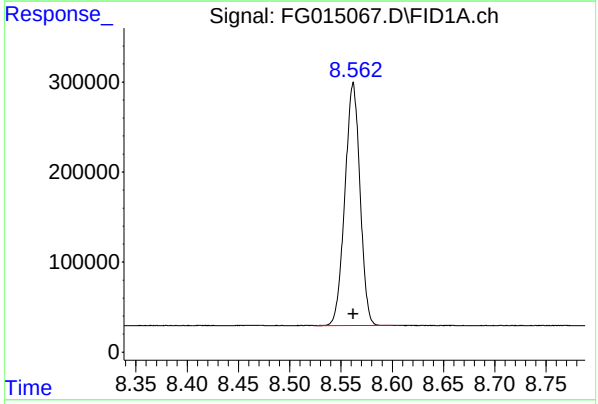
R.T.: 6.725 min
Delta R.T.: 0.000 min
Response: 2733386
Conc: 20.00 ug/ml



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

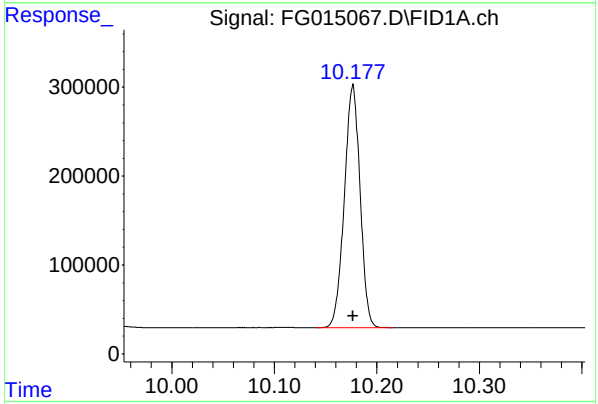
R.T.: 7.357 min
Delta R.T.: 0.000 min
Response: 2872724
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



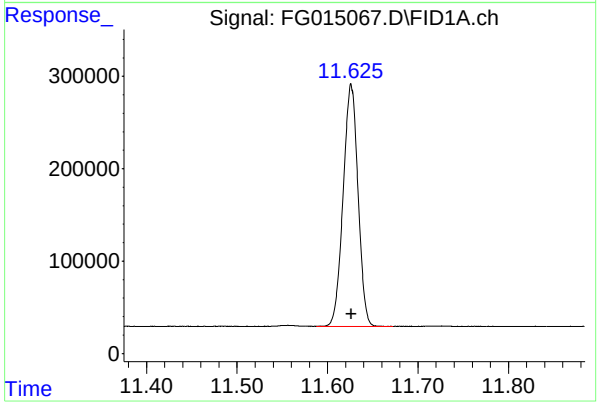
#6 n-Tetradecane (C14)

R.T.: 8.562 min
Delta R.T.: 0.000 min
Response: 2764267
Conc: 20.00 ug/ml



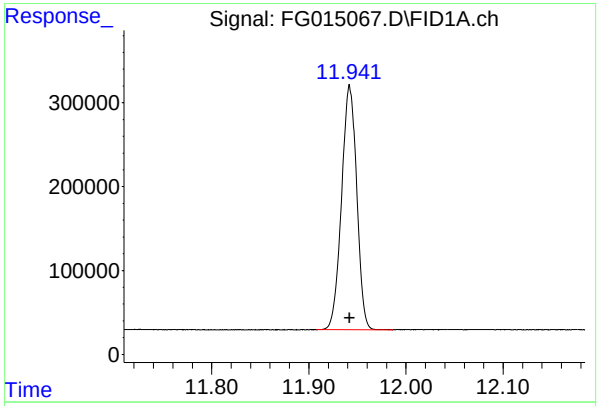
#7 n-Hexadecane (C16)

R.T.: 10.177 min
Delta R.T.: 0.000 min
Response: 2917392
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

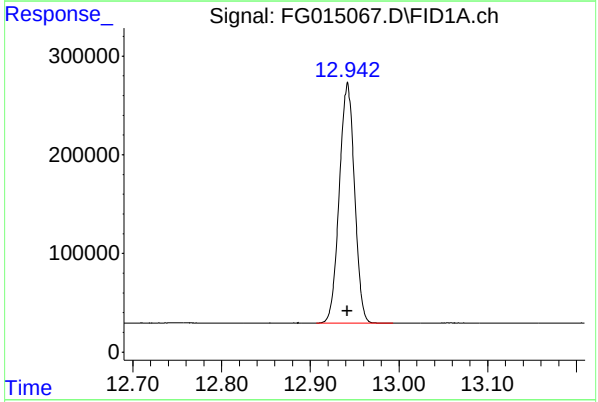
R.T.: 11.626 min
Delta R.T.: 0.000 min
Response: 2990249
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

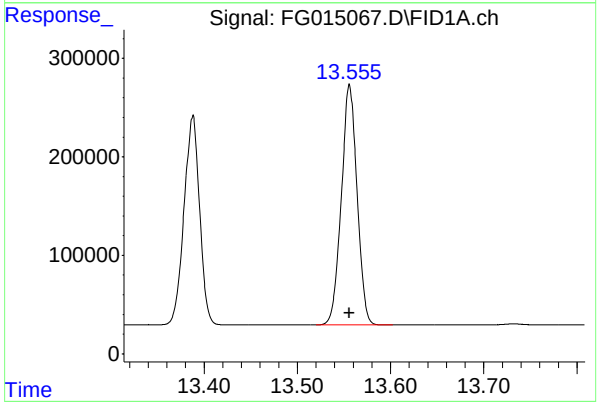
R.T.: 11.942 min
Delta R.T.: 0.000 min
Response: 3147685
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



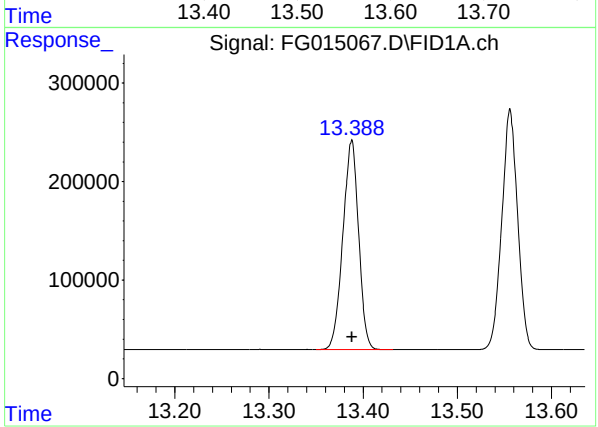
#10 n-Eicosane (C20)

R.T.: 12.942 min
Delta R.T.: 0.000 min
Response: 2895988
Conc: 20.00 ug/ml



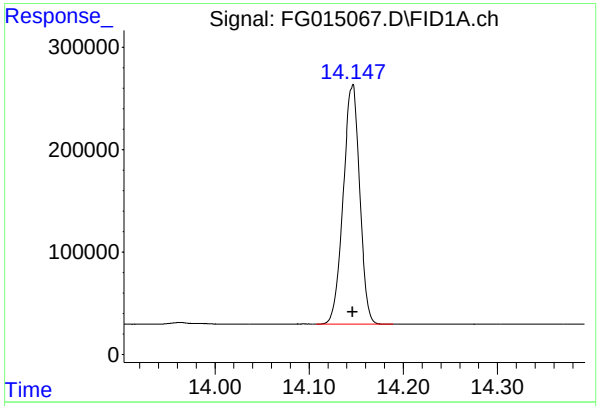
#11 n-Heneicosane (C21)

R.T.: 13.556 min
Delta R.T.: 0.000 min
Response: 2854638
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

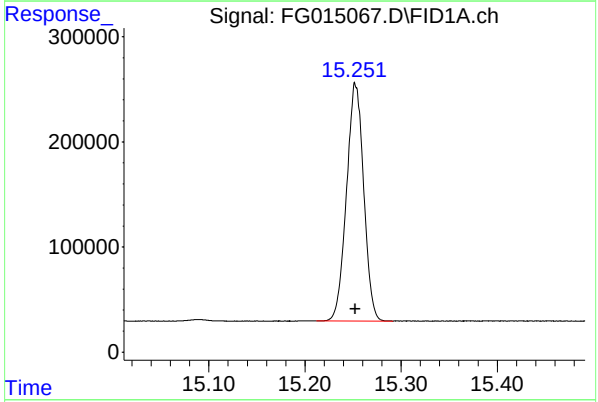
R.T.: 13.388 min
Delta R.T.: 0.000 min
Response: 2463128
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

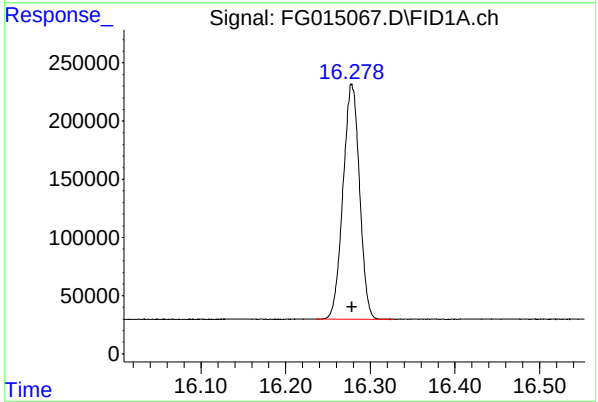
R.T.: 14.146 min
Delta R.T.: 0.000 min
Response: 2840997
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



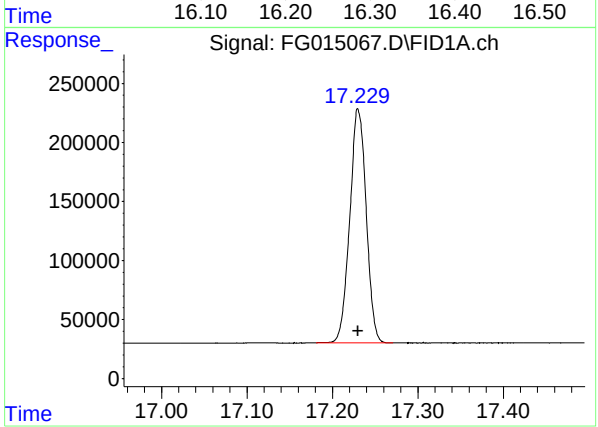
#14 n-Tetracosane (C24)

R.T.: 15.253 min
Delta R.T.: 0.000 min
Response: 2812228
Conc: 20.00 ug/ml



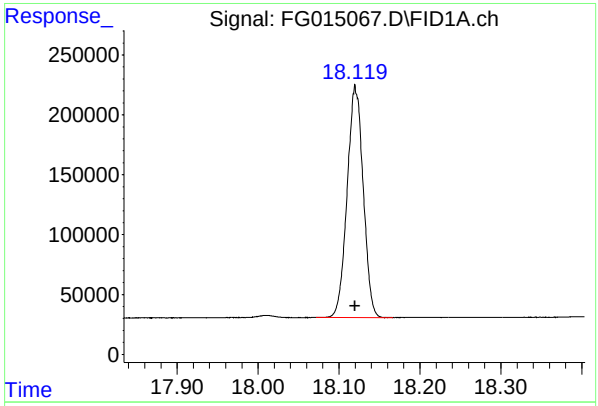
#15 n-Hexacosane (C26)

R.T.: 16.278 min
Delta R.T.: 0.000 min
Response: 2737370
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

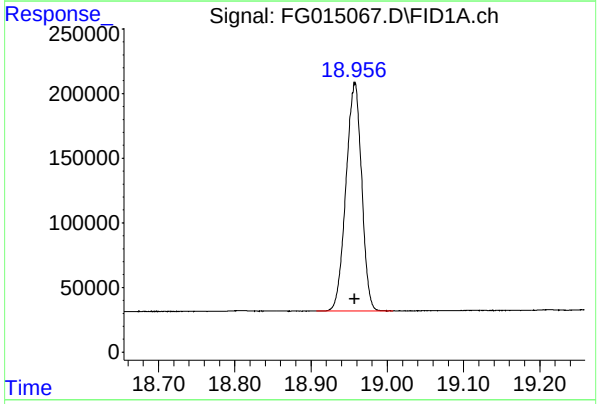
R.T.: 17.230 min
Delta R.T.: 0.000 min
Response: 2652099
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

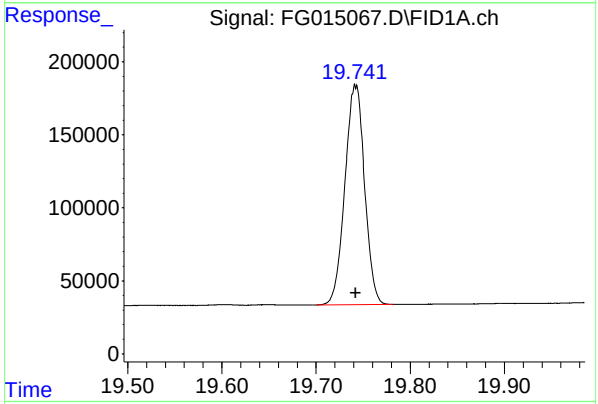
R.T.: 18.120 min
Delta R.T.: 0.000 min
Response: 2664360
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



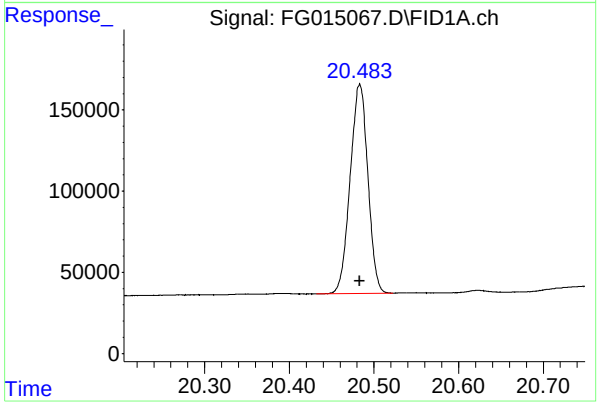
#18 n-Dotriacontane (C32)

R.T.: 18.958 min
Delta R.T.: 0.000 min
Response: 2523491
Conc: 20.00 ug/ml



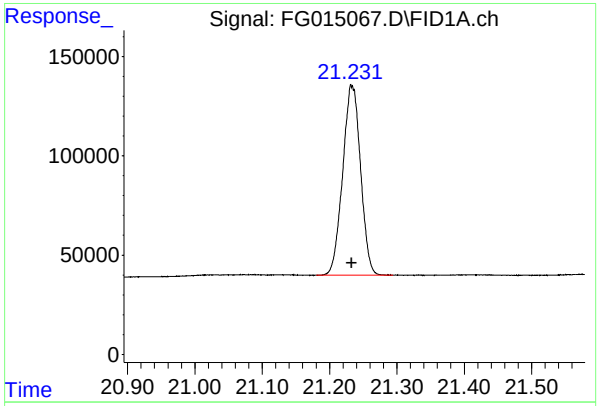
#19 n-Tetratriacontane (C34)

R.T.: 19.742 min
Delta R.T.: 0.000 min
Response: 2181450
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

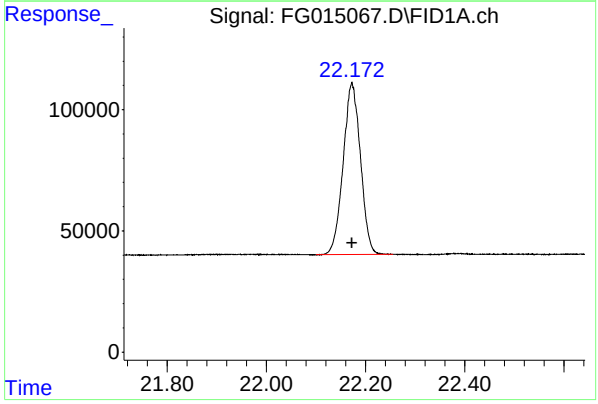
R.T.: 20.483 min
Delta R.T.: 0.000 min
Response: 1872181
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.233 min
Delta R.T.: 0.000 min
Response: 1767390
Conc: 20.00 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.172 min
Delta R.T.: 0.000 min
Response: 1716790
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015067.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 10:32
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.286	3.257	3.332	BB	261204	2614767	83.07%	4.536%
2	4.546	4.513	4.588	BB	267662	2676689	85.04%	4.644%
3	6.255	6.223	6.293	BB	309206	2939792	93.40%	5.100%
4	6.725	6.692	6.760	BB	274221	2733386	86.84%	4.742%
5	7.357	7.318	7.404	BB	298379	2872724	91.26%	4.984%
6	8.562	8.526	8.601	BB	269719	2764267	87.82%	4.796%
7	10.177	10.141	10.216	BB	274082	2917392	92.68%	5.061%
8	11.626	11.588	11.673	BB	259504	2990249	95.00%	5.188%
9	11.942	11.908	11.987	BB	289602	3147685	100.00%	5.461%
10	12.942	12.907	12.993	BB	243555	2895988	92.00%	5.024%
11	13.388	13.350	13.432	BB	213103	2463128	78.25%	4.273%
12	13.556	13.520	13.603	BB	244258	2854638	90.69%	4.953%
13	14.146	14.108	14.189	BB	232509	2840997	90.26%	4.929%
14	15.253	15.212	15.292	BB	224027	2812228	89.34%	4.879%
15	16.278	16.236	16.327	BB	201932	2737370	86.96%	4.749%
16	17.230	17.181	17.271	BB	198008	2652099	84.26%	4.601%
17	18.120	18.072	18.167	BB	193745	2664360	84.65%	4.622%
18	18.958	18.907	19.008	BB	175466	2523491	80.17%	4.378%
19	19.742	19.700	19.782	BB	147879	2181450	69.30%	3.785%
20	20.483	20.432	20.523	BB	129158	1872181	59.48%	3.248%
21	21.233	21.180	21.294	BB	94746	1767390	56.15%	3.066%
22	22.172	22.100	22.255	BB	71138	1716790	54.54%	2.979%
					Sum of corrected areas:	57639058		

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015068.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:00
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 14 11:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:29:05 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.941	1696095	10.890 ug/ml
Spiked Amount	50.000		Recovery =	21.78%
12) S	1-chlorooctadecane (S...	13.386	1316129	10.805 ug/ml
Spiked Amount	50.000		Recovery =	21.61%
	Target Compounds			
1) T	n-Nonane (C9)	3.286	1414022	10.957 ug/ml
2) T	n-Decane (C10)	4.546	1445560	10.937 ug/ml
3) T	A~Naphthalene (C11.7)	6.256	1588241	10.920 ug/ml
4) T	n-Dodecane (C12)	6.725	1477691	10.921 ug/ml
5) T	A~2-methylnaphthalene...	7.357	1548912	10.892 ug/ml
6) T	n-Tetradecane (C14)	8.561	1492489	10.894 ug/ml
7) T	n-Hexadecane (C16)	10.176	1570556	10.880 ug/ml
8) T	n-Octadecane (C18)	11.625	1621142	10.945 ug/ml
10) T	n-Eicosane (C20)	12.941	1555013	10.867 ug/ml
11) T	n-Heneicosane (C21)	13.555	1532447	10.868 ug/ml
13) T	n-Docosane (C22)	14.144	1520670	10.842 ug/ml
14) T	n-Tetracosane (C24)	15.251	1504153	10.823 ug/ml
15) T	n-Hexacosane (C26)	16.276	1464425	10.828 ug/ml
16) T	n-Octacosane (C28)	17.229	1418738	10.837 ug/ml
17) T	n-Tricontane (C30)	18.120	1429882	10.928 ug/ml
18) T	n-Dotriacontane (C32)	18.956	1361904	11.007 ug/ml
19) T	n-Tetratriacontane (C34)	19.741	1178833	11.016 ug/ml
20) T	n-Hexatriacontane (C36)	20.483	1017042	11.056 ug/ml
21) T	n-Octatriacontane (C38)	21.233	958741	11.055 ug/ml
22) T	n-Tetracontane (C40)	22.171	929971	11.036 ug/ml

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

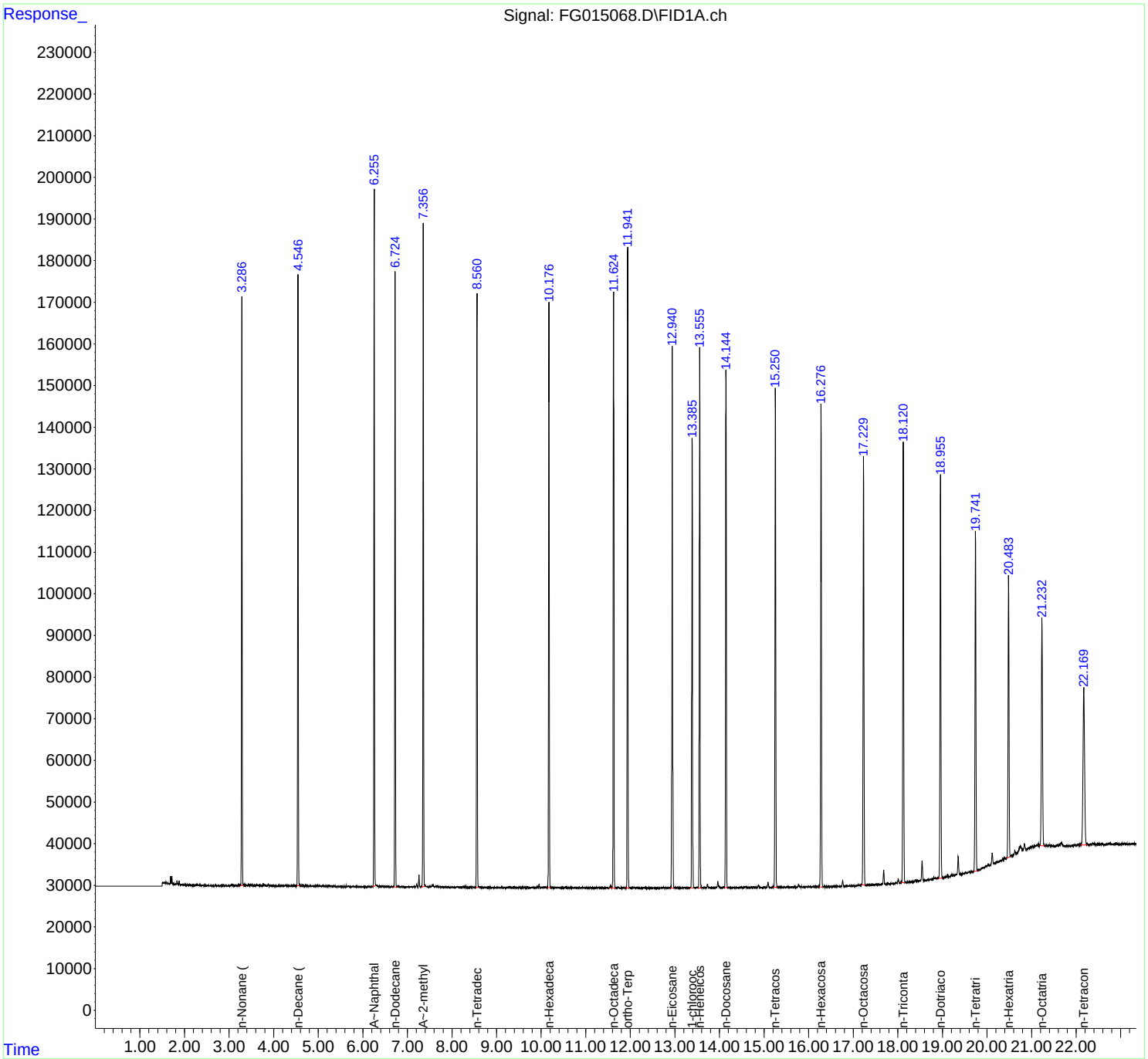
Quantitation Report (QT Reviewed)

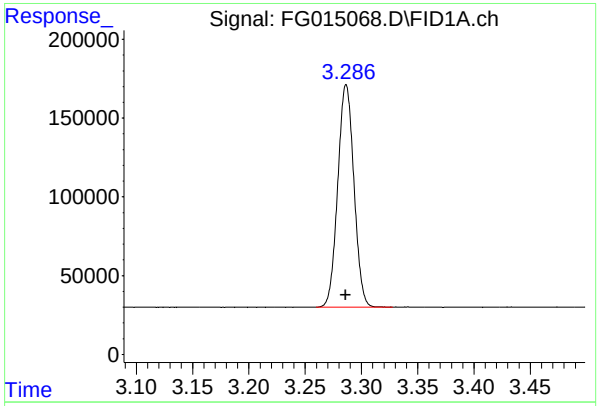
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015068.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:00
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Jan 14 11:29:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:29:05 2025
Response via : Initial Calibration
Integrator: ChemStation

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

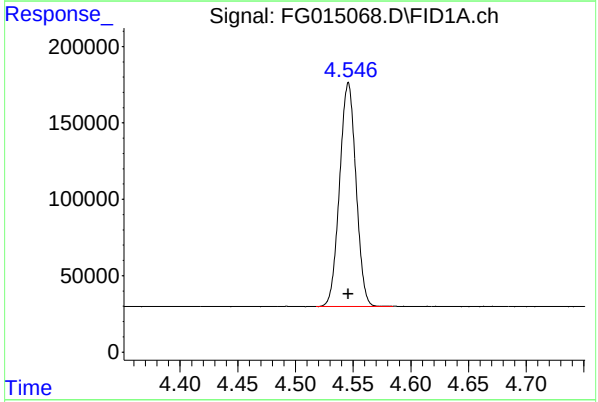




#1 n-Nonane (C9)

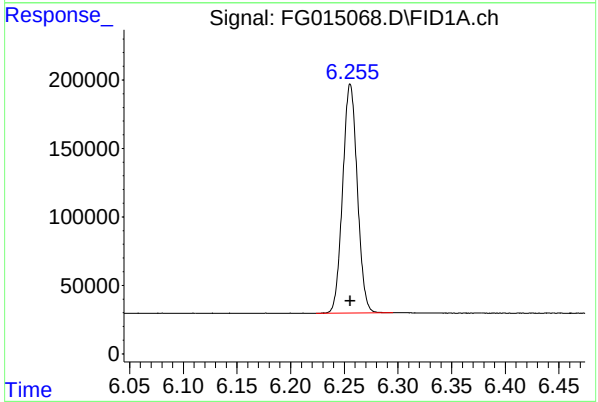
R.T.: 3.286 min
Delta R.T.: 0.000 min
Response: 1414022
Conc: 10.96 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



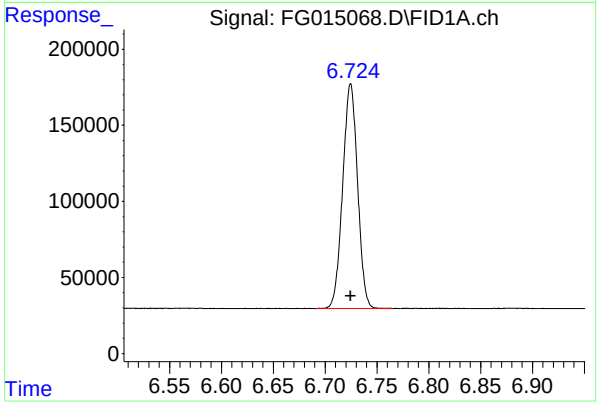
#2 n-Decane (C10)

R.T.: 4.546 min
Delta R.T.: 0.000 min
Response: 1445560
Conc: 10.94 ug/ml



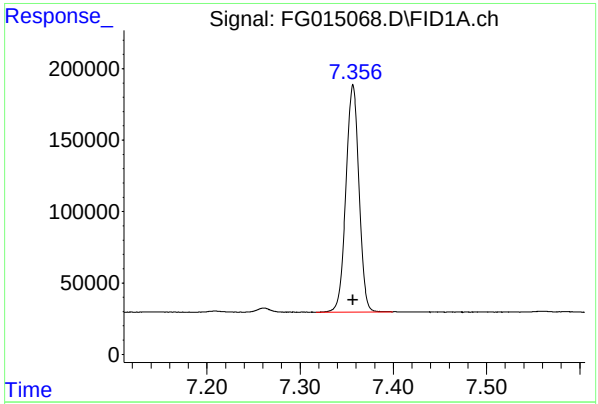
#3 A~Naphthalene (C11.7)

R.T.: 6.256 min
Delta R.T.: 0.000 min
Response: 1588241
Conc: 10.92 ug/ml



#4 n-Dodecane (C12)

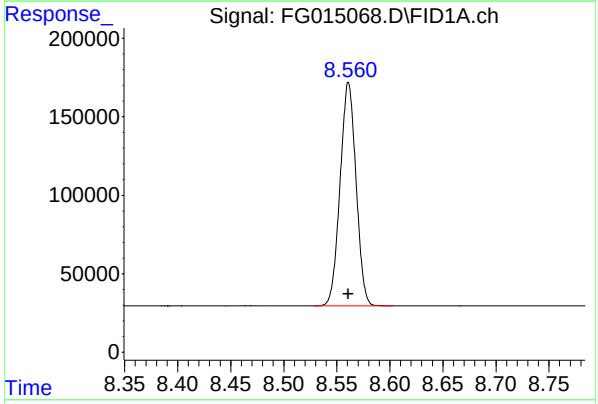
R.T.: 6.725 min
Delta R.T.: 0.000 min
Response: 1477691
Conc: 10.92 ug/ml



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

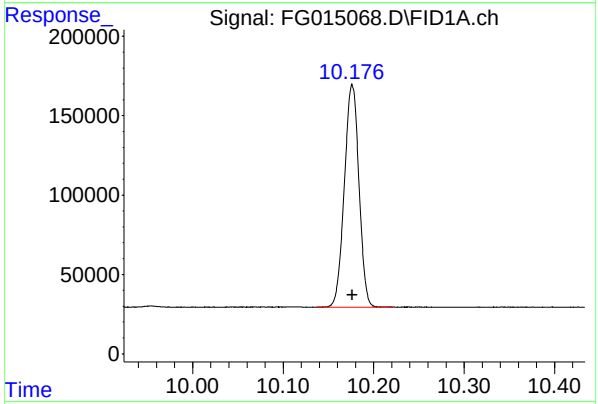
R.T.: 7.357 min
Delta R.T.: 0.000 min
Response: 1548912
Conc: 10.89 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



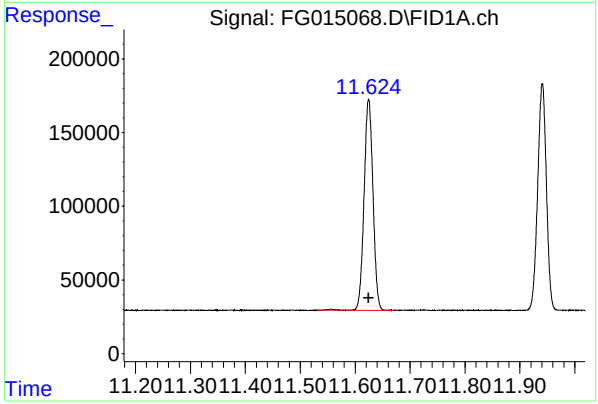
#6 n-Tetradecane (C14)

R.T.: 8.561 min
Delta R.T.: 0.000 min
Response: 1492489
Conc: 10.89 ug/ml



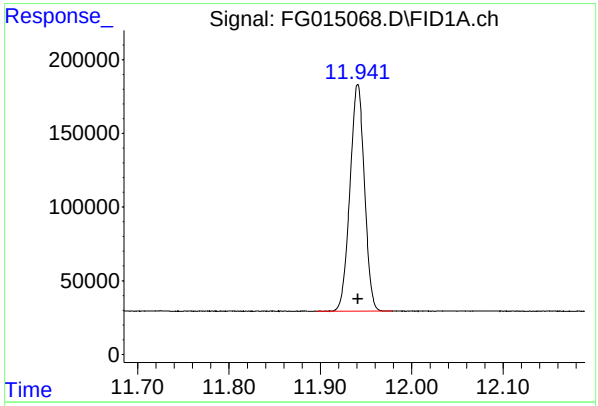
#7 n-Hexadecane (C16)

R.T.: 10.176 min
Delta R.T.: 0.000 min
Response: 1570556
Conc: 10.88 ug/ml



#8 n-Octadecane (C18)

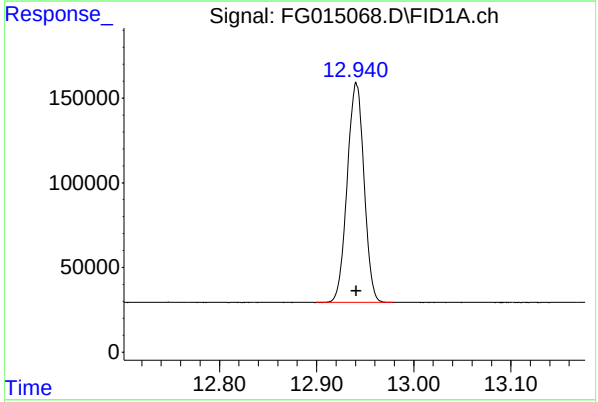
R.T.: 11.625 min
Delta R.T.: 0.000 min
Response: 1621142
Conc: 10.95 ug/ml



#9 ortho-Terphenyl (SURR)

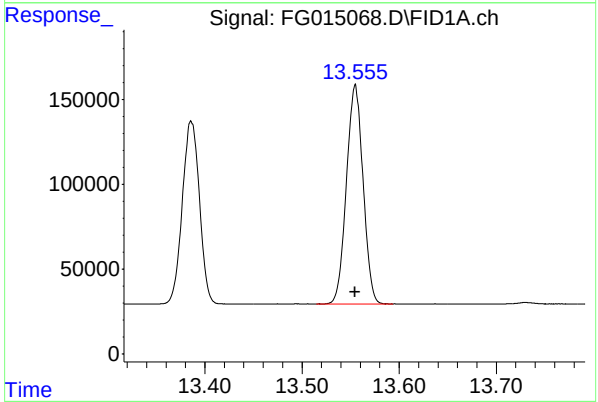
R.T.: 11.941 min
Delta R.T.: 0.000 min
Response: 1696095
Conc: 10.89 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



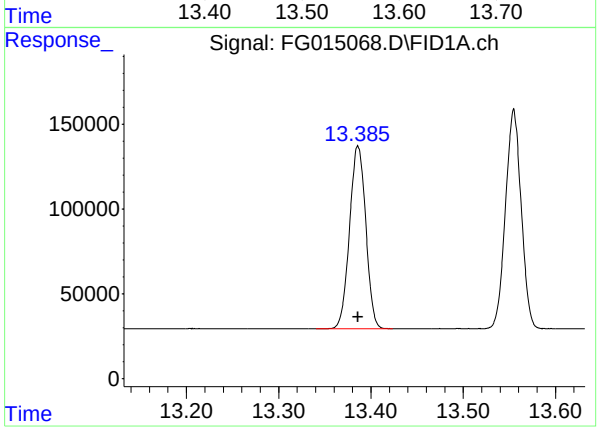
#10 n-Eicosane (C20)

R.T.: 12.941 min
Delta R.T.: 0.000 min
Response: 1555013
Conc: 10.87 ug/ml



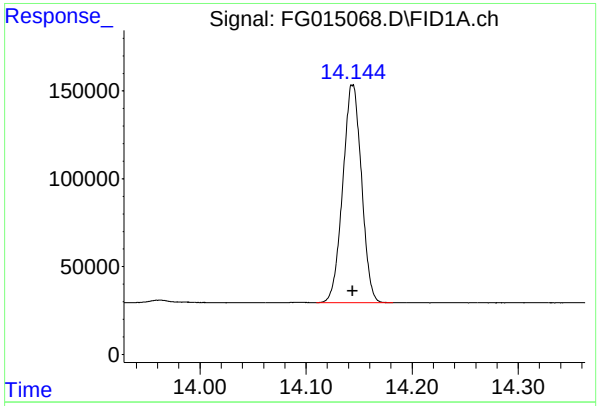
#11 n-Heneicosane (C21)

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 1532447
Conc: 10.87 ug/ml



#12 1-chlorooctadecane (SURR)

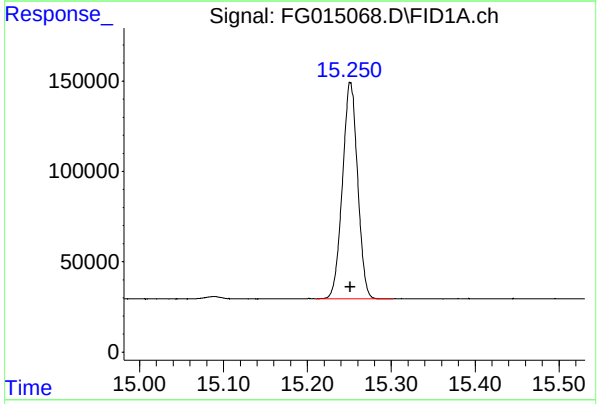
R.T.: 13.386 min
Delta R.T.: 0.000 min
Response: 1316129
Conc: 10.81 ug/ml



#13 n-Docosane (C22)

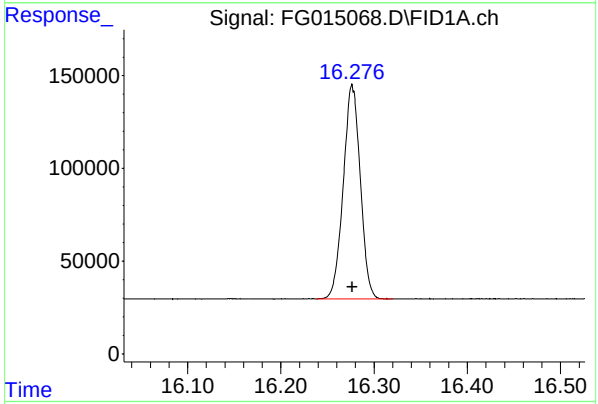
R.T.: 14.144 min
Delta R.T.: 0.000 min
Response: 1520670
Conc: 10.84 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



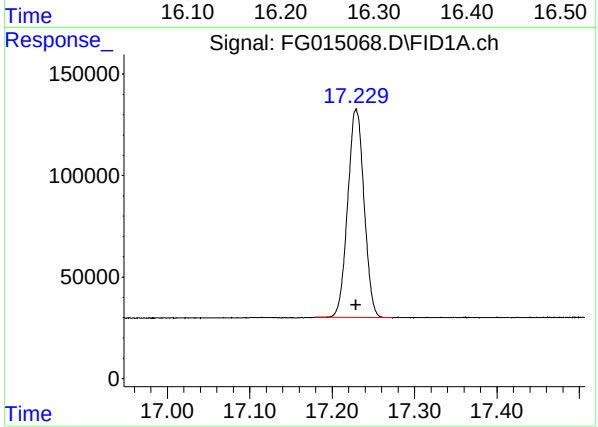
#14 n-Tetracosane (C24)

R.T.: 15.251 min
Delta R.T.: 0.000 min
Response: 1504153
Conc: 10.82 ug/ml



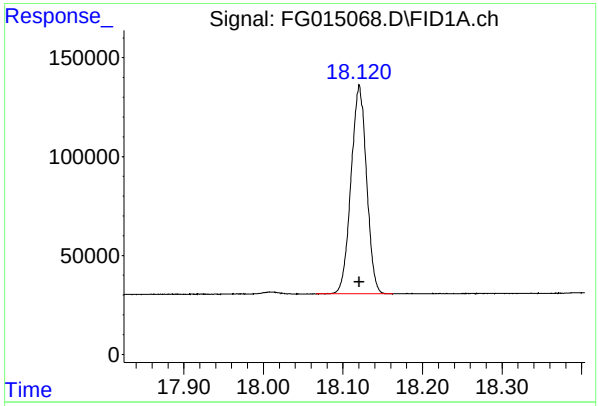
#15 n-Hexacosane (C26)

R.T.: 16.276 min
Delta R.T.: 0.000 min
Response: 1464425
Conc: 10.83 ug/ml



#16 n-Octacosane (C28)

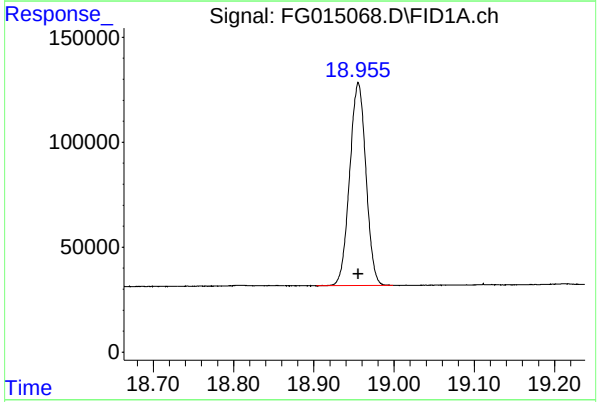
R.T.: 17.229 min
Delta R.T.: 0.000 min
Response: 1418738
Conc: 10.84 ug/ml



#17 n-Tricontane (C30)

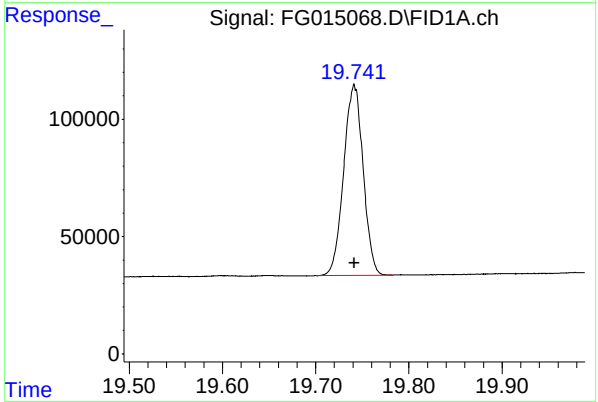
R.T.: 18.120 min
Delta R.T.: 0.000 min
Response: 1429882
Conc: 10.93 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



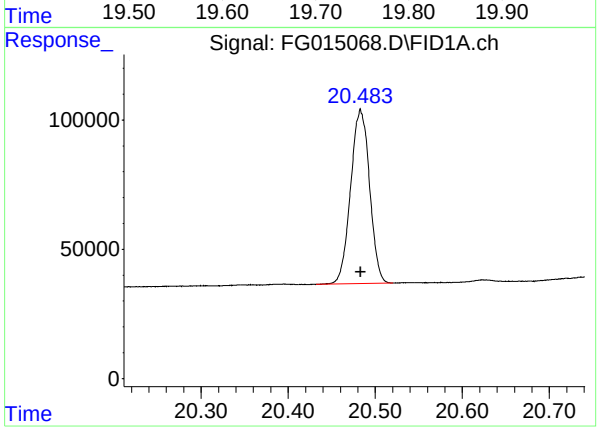
#18 n-Dotriacontane (C32)

R.T.: 18.956 min
Delta R.T.: 0.000 min
Response: 1361904
Conc: 11.01 ug/ml



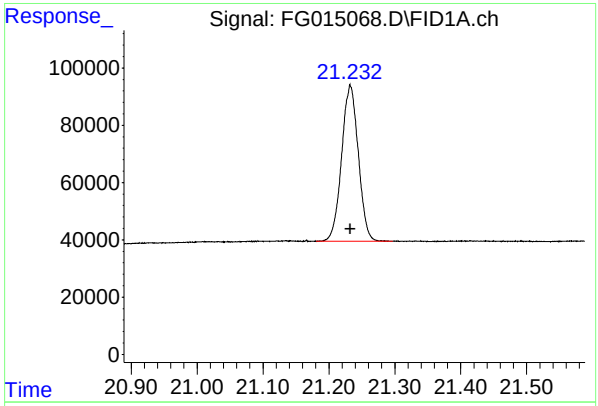
#19 n-Tetratriacontane (C34)

R.T.: 19.741 min
Delta R.T.: 0.000 min
Response: 1178833
Conc: 11.02 ug/ml



#20 n-Hexatriacontane (C36)

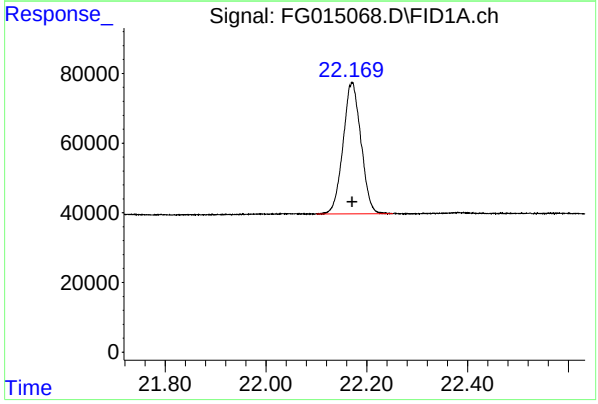
R.T.: 20.483 min
Delta R.T.: 0.000 min
Response: 1017042
Conc: 11.06 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.233 min
Delta R.T.: 0.000 min
Response: 958741
Conc: 11.06 ug/ml

Instrument :
FID_G
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.171 min
Delta R.T.: 0.000 min
Response: 929971
Conc: 11.04 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015068.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:00
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.286	3.260	3.328	BB	141436	1414022	83.37%	4.555%
2	4.546	4.518	4.585	BB	146827	1445560	85.23%	4.657%
3	6.256	6.224	6.295	BB	167372	1588241	93.64%	5.116%
4	6.725	6.691	6.765	BB	147707	1477691	87.12%	4.760%
5	7.357	7.317	7.400	BB	158941	1548912	91.32%	4.990%
6	8.561	8.530	8.603	BB	142365	1492489	88.00%	4.808%
7	10.176	10.136	10.221	BB	140145	1570556	92.60%	5.059%
8	11.625	11.529	11.669	BB	143066	1621142	95.58%	5.222%
9	11.941	11.895	11.980	BB	153791	1696095	100.00%	5.464%
10	12.941	12.900	12.979	BB	128917	1555013	91.68%	5.009%
11	13.386	13.340	13.424	BB	107509	1316129	77.60%	4.240%
12	13.555	13.515	13.594	BB	129564	1532447	90.35%	4.937%
13	14.144	14.110	14.182	BB	123484	1520670	89.66%	4.899%
14	15.251	15.210	15.302	BB	119455	1504153	88.68%	4.845%
15	16.276	16.238	16.320	BB	115417	1464425	86.34%	4.717%
16	17.229	17.180	17.274	BB	102975	1418738	83.65%	4.570%
17	18.120	18.066	18.163	BB	105834	1429882	84.30%	4.606%
18	18.956	18.903	18.999	BB	96848	1361904	80.30%	4.387%
19	19.741	19.700	19.783	BB	81334	1178833	69.50%	3.797%
20	20.483	20.432	20.520	BB	67427	1017042	59.96%	3.276%
21	21.233	21.180	21.297	BB	54180	958741	56.53%	3.088%
22	22.171	22.100	22.252	BB	37517	929971	54.83%	2.996%
			Sum of corrected areas:			31042656		

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015069.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:29
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 14 11:44:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:44:36 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.940	793826	5.077 ug/ml
Spiked Amount	50.000		Recovery =	10.15%
12) S	1-chlorooctadecane (S...	13.387	608003	4.993 ug/ml
Spiked Amount	50.000		Recovery =	9.99%
	Target Compounds			
1) T	n-Nonane (C9)	3.287	664889	5.121 ug/ml
2) T	n-Decane (C10)	4.546	678916	5.109 ug/ml
3) T	A~Naphthalene (C11.7)	6.256	741908	5.080 ug/ml
4) T	n-Dodecane (C12)	6.724	692500	5.094 ug/ml
5) T	A~2-methylnaphthalene...	7.356	724639	5.076 ug/ml
6) T	n-Tetradecane (C14)	8.560	698008	5.076 ug/ml
7) T	n-Hexadecane (C16)	10.175	735392	5.075 ug/ml
8) T	n-Octadecane (C18)	11.625	753432	5.069 ug/ml
10) T	n-Eicosane (C20)	12.940	726588	5.062 ug/ml
11) T	n-Heneicosane (C21)	13.555	714831	5.056 ug/ml
13) T	n-Docosane (C22)	14.143	709791	5.048 ug/ml
14) T	n-Tetracosane (C24)	15.251	700082	5.030 ug/ml
15) T	n-Hexacosane (C26)	16.276	681420	5.031 ug/ml
16) T	n-Octacosane (C28)	17.229	671550	5.103 ug/ml
17) T	n-Tricontane (C30)	18.120	699551	5.273 ug/ml
18) T	n-Dotriacontane (C32)	18.955	678547	5.380 ug/ml
19) T	n-Tetratriacontane (C34)	19.741	581837	5.344 ug/ml
20) T	n-Hexatriacontane (C36)	20.482	494323	5.295 ug/ml
21) T	n-Octatriacontane (C38)	21.233	459379	5.235 ug/ml
22) T	n-Tetracontane (C40)	22.172	433737	5.117 ug/ml

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

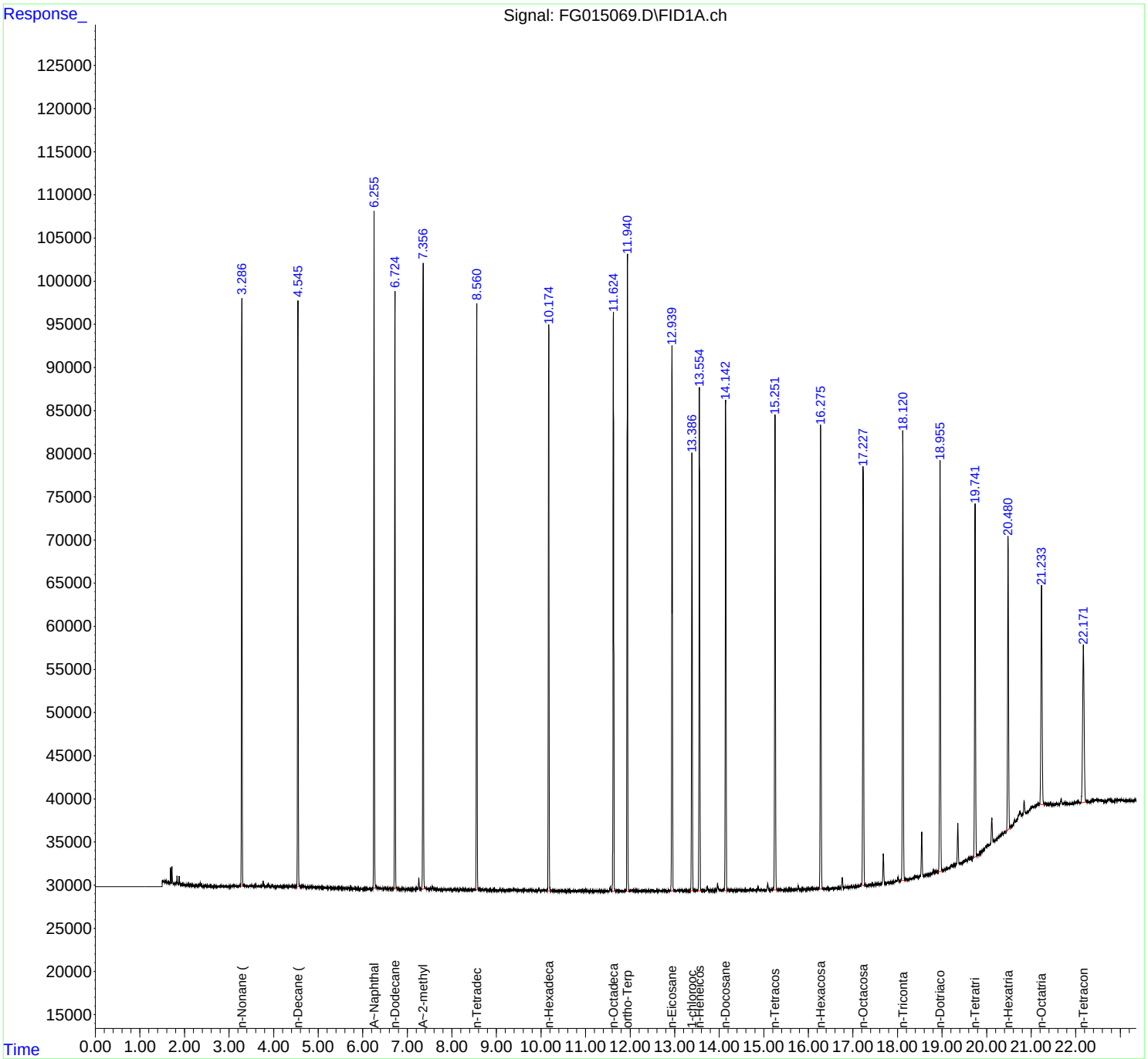
Quantitation Report (QT Reviewed)

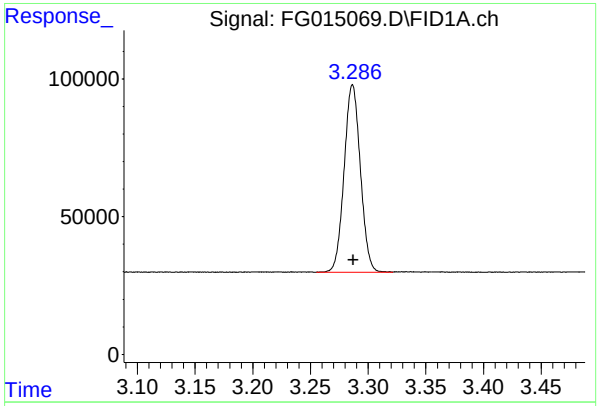
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015069.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:29
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Jan 14 11:44:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:44:36 2025
Response via : Initial Calibration
Integrator: ChemStation

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

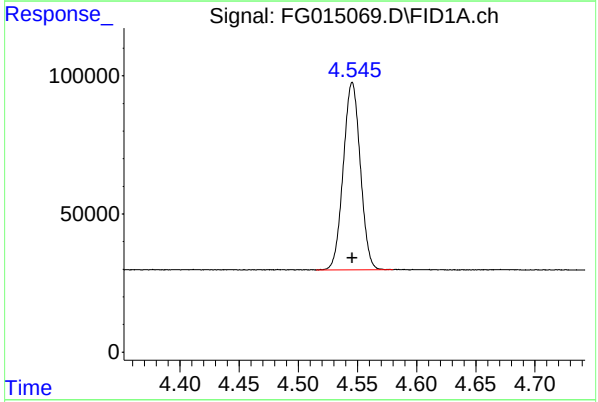




#1 n-Nonane (C9)

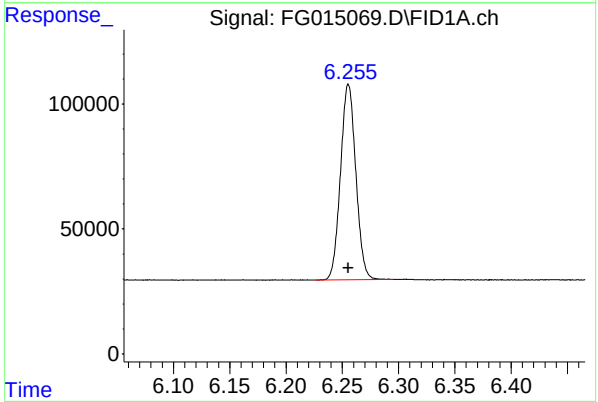
R.T.: 3.287 min
Delta R.T.: 0.000 min
Response: 664889
Conc: 5.12 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



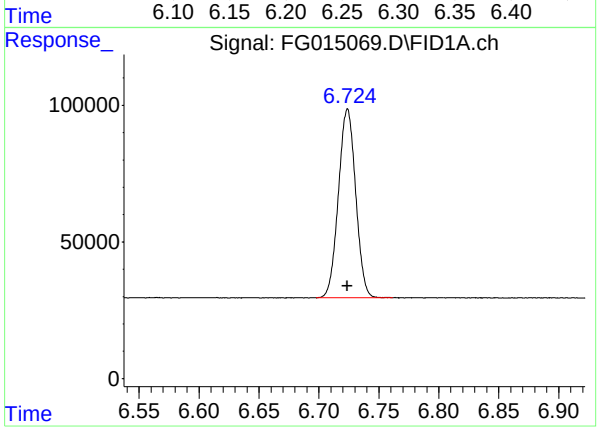
#2 n-Decane (C10)

R.T.: 4.546 min
Delta R.T.: 0.000 min
Response: 678916
Conc: 5.11 ug/ml



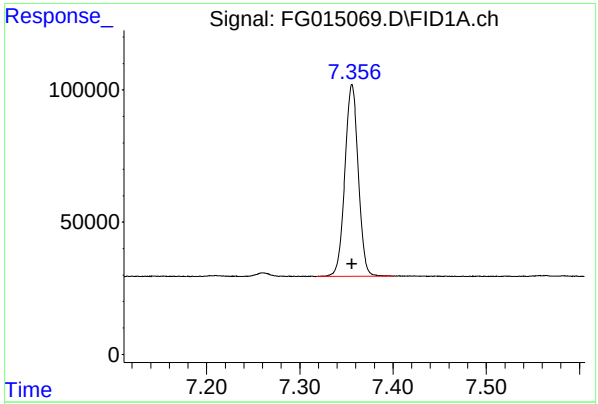
#3 A~Naphthalene (C11.7)

R.T.: 6.256 min
Delta R.T.: 0.000 min
Response: 741908
Conc: 5.08 ug/ml



#4 n-Dodecane (C12)

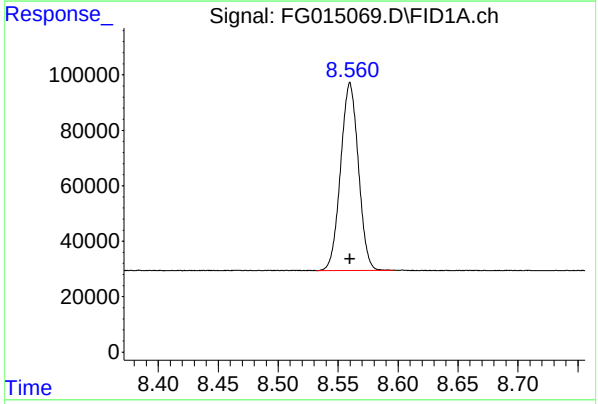
R.T.: 6.724 min
Delta R.T.: 0.000 min
Response: 692500
Conc: 5.09 ug/ml



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

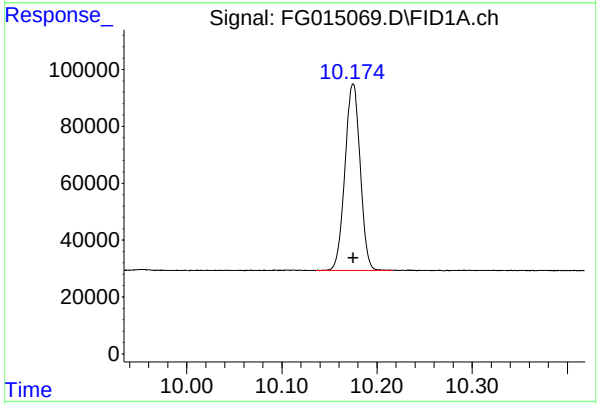
R.T.: 7.356 min
Delta R.T.: 0.000 min
Response: 724639
Conc: 5.08 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



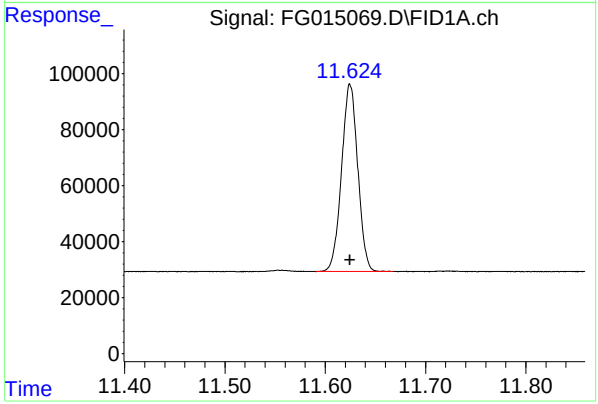
#6 n-Tetradecane (C14)

R.T.: 8.560 min
Delta R.T.: 0.000 min
Response: 698008
Conc: 5.08 ug/ml



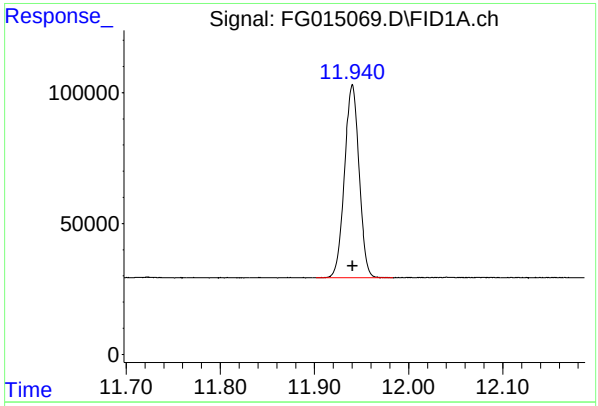
#7 n-Hexadecane (C16)

R.T.: 10.175 min
Delta R.T.: 0.000 min
Response: 735392
Conc: 5.08 ug/ml



#8 n-Octadecane (C18)

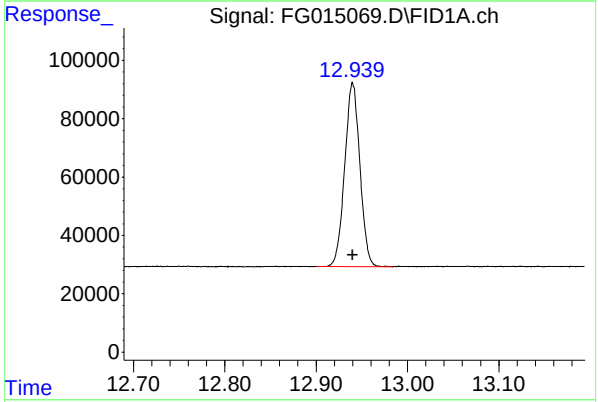
R.T.: 11.625 min
Delta R.T.: 0.000 min
Response: 753432
Conc: 5.07 ug/ml



#9 ortho-Terphenyl (SURR)

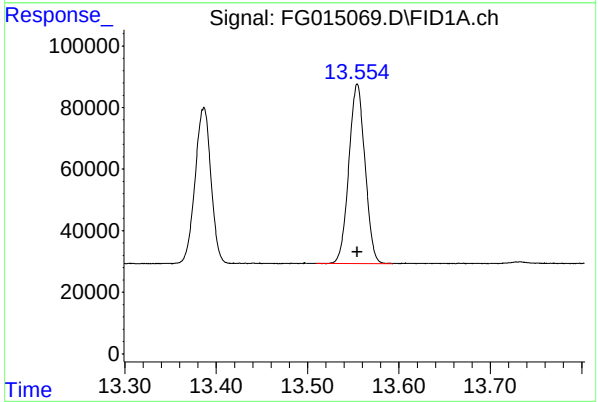
R.T.: 11.940 min
Delta R.T.: 0.000 min
Response: 793826
Conc: 5.08 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



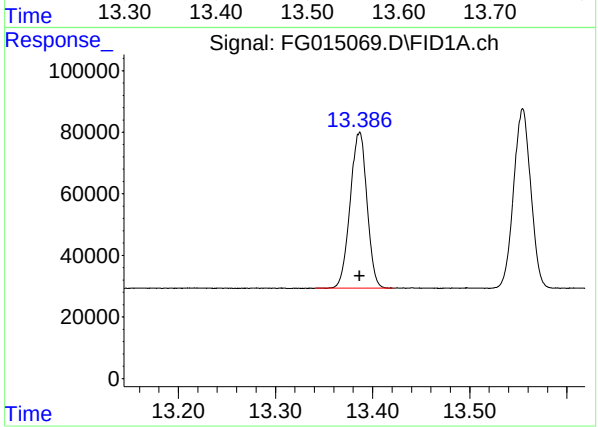
#10 n-Eicosane (C20)

R.T.: 12.940 min
Delta R.T.: 0.000 min
Response: 726588
Conc: 5.06 ug/ml



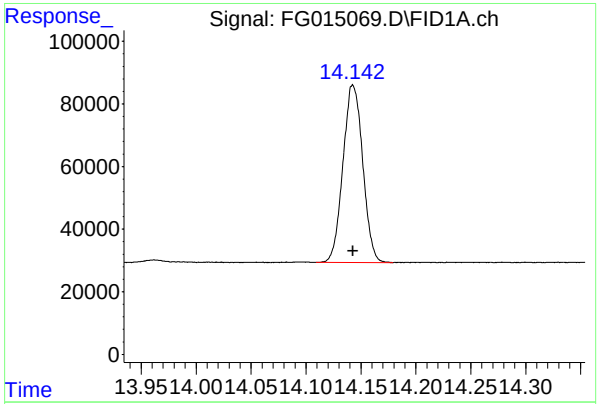
#11 n-Heneicosane (C21)

R.T.: 13.555 min
Delta R.T.: 0.000 min
Response: 714831
Conc: 5.06 ug/ml



#12 1-chlorooctadecane (SURR)

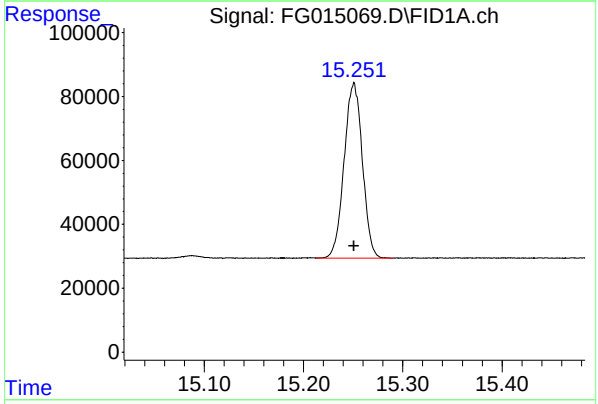
R.T.: 13.387 min
Delta R.T.: 0.000 min
Response: 608003
Conc: 4.99 ug/ml



#13 n-Docosane (C22)

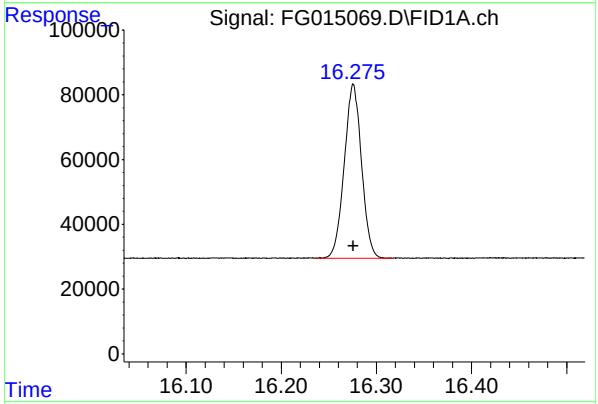
R.T.: 14.143 min
Delta R.T.: 0.000 min
Response: 709791
Conc: 5.05 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



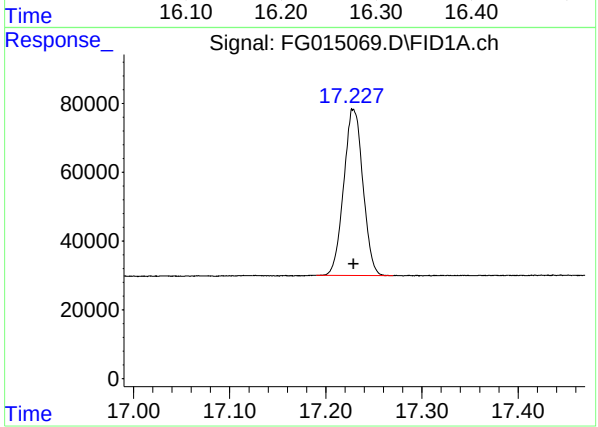
#14 n-Tetracosane (C24)

R.T.: 15.251 min
Delta R.T.: 0.000 min
Response: 700082
Conc: 5.03 ug/ml



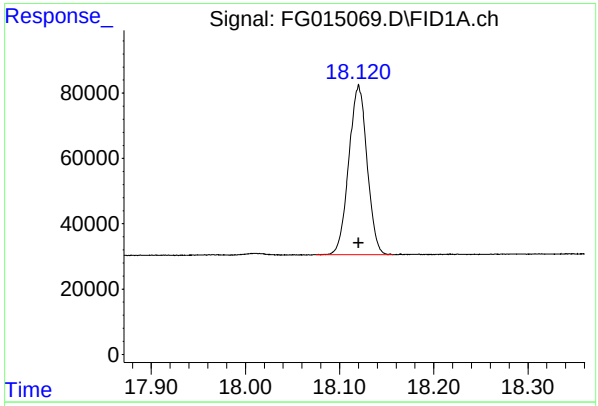
#15 n-Hexacosane (C26)

R.T.: 16.276 min
Delta R.T.: 0.000 min
Response: 681420
Conc: 5.03 ug/ml



#16 n-Octacosane (C28)

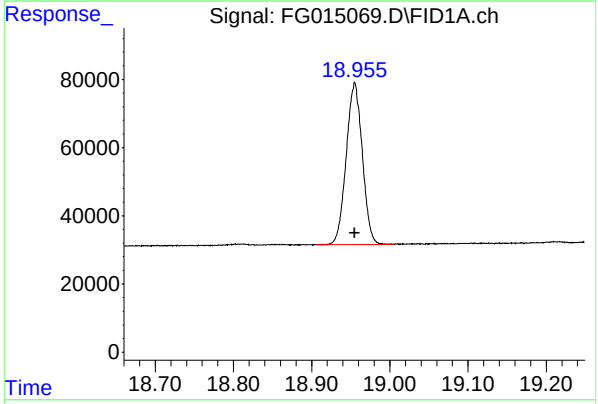
R.T.: 17.229 min
Delta R.T.: 0.000 min
Response: 671550
Conc: 5.10 ug/ml



#17 n-Tricontane (C30)

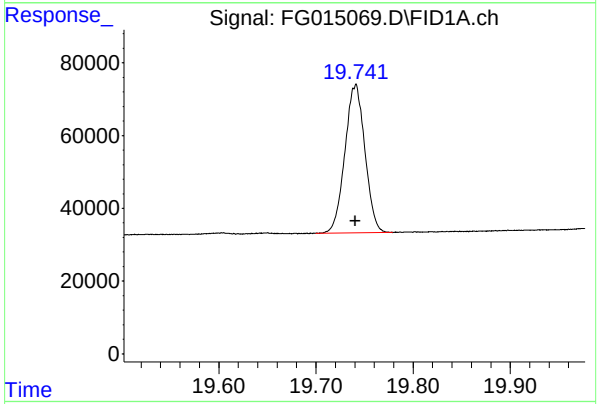
R.T.: 18.120 min
Delta R.T.: 0.000 min
Response: 699551
Conc: 5.27 ug/ml

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



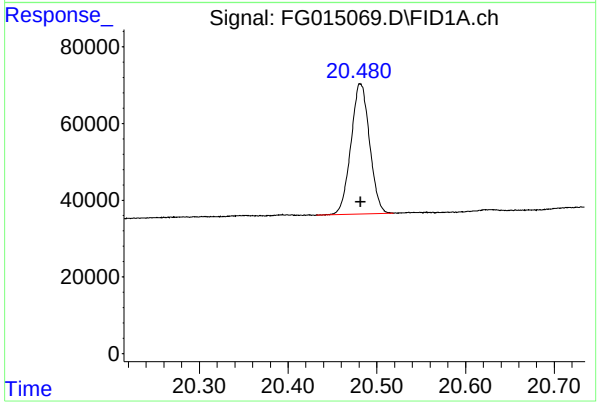
#18 n-Dotriacontane (C32)

R.T.: 18.955 min
Delta R.T.: 0.000 min
Response: 678547
Conc: 5.38 ug/ml



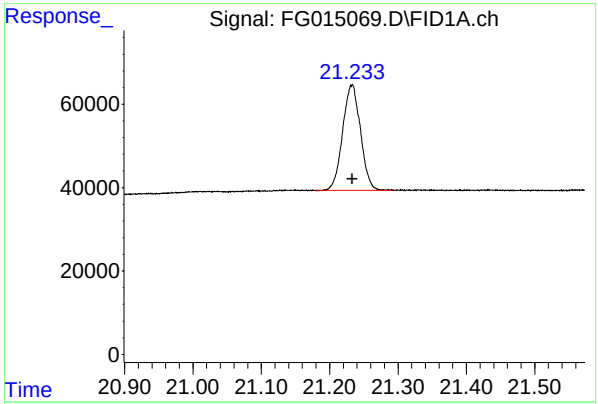
#19 n-Tetratriacontane (C34)

R.T.: 19.741 min
Delta R.T.: 0.000 min
Response: 581837
Conc: 5.34 ug/ml



#20 n-Hexatriacontane (C36)

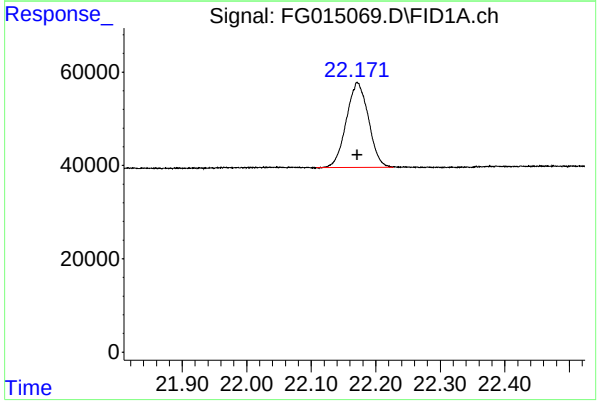
R.T.: 20.482 min
Delta R.T.: 0.000 min
Response: 494323
Conc: 5.29 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.233 min
Delta R.T.: 0.000 mi
Response: 459379
Conc: 5.23 ug/m

Instrument :
FID_G
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.172 min
Delta R.T.: 0.000 min
Response: 433737
Conc: 5.12 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015069.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:29
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.287	3.255	3.322	BB	68164	664889	83.76%	4.541%
2	4.546	4.515	4.580	BB	67882	678916	85.52%	4.636%
3	6.256	6.227	6.295	BB	78166	741908	93.46%	5.067%
4	6.724	6.698	6.762	BB	69332	692500	87.24%	4.729%
5	7.356	7.318	7.400	BB	72530	724639	91.28%	4.949%
6	8.560	8.532	8.596	BB	67907	698008	87.93%	4.767%
7	10.175	10.136	10.217	BB	65609	735392	92.64%	5.022%
8	11.625	11.591	11.668	BB	66742	753432	94.91%	5.145%
9	11.940	11.902	11.983	BB	73689	793826	100.00%	5.421%
10	12.940	12.900	12.984	BB	62917	726588	91.53%	4.962%
11	13.387	13.342	13.421	BB	50709	608003	76.59%	4.152%
12	13.555	13.509	13.593	BB	58343	714831	90.05%	4.882%
13	14.143	14.109	14.179	BB	56758	709791	89.41%	4.847%
14	15.251	15.213	15.290	BB	54917	700082	88.19%	4.781%
15	16.276	16.237	16.318	BB	53686	681420	85.84%	4.654%
16	17.229	17.190	17.270	BB	48183	671550	84.60%	4.586%
17	18.120	18.075	18.157	BB	51943	699551	88.12%	4.777%
18	18.955	18.906	19.004	BB	47643	678547	85.48%	4.634%
19	19.741	19.700	19.779	BB	40829	581837	73.30%	3.973%
20	20.482	20.432	20.518	BB	33791	494323	62.27%	3.376%
21	21.233	21.180	21.293	BB	25439	459379	57.87%	3.137%
22	22.172	22.108	22.227	BB	18260	433737	54.64%	2.962%
			Sum of corrected areas:			14643147		

Aliphatic EPH 011425.M Tue Jan 14 12:15:47 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015070.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:57
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 14 12:09:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.942	3157928	20.198 ug/ml
Spiked Amount	50.000		Recovery =	40.40%
12)	S 1-chlorooctadecane (S...	13.388	2467859	20.268 ug/ml
Spiked Amount	50.000		Recovery =	40.54%
	Target Compounds			
1)	T n-Nonane (C9)	3.287	2614988	20.141 ug/ml
2)	T n-Decane (C10)	4.546	2679348	20.162 ug/ml
3)	T A~Naphthalene (C11.7)	6.256	2948919	20.193 ug/ml
4)	T n-Dodecane (C12)	6.725	2738909	20.148 ug/ml
5)	T A~2-methylnaphthalene...	7.358	2882199	20.190 ug/ml
6)	T n-Tetradecane (C14)	8.562	2774707	20.176 ug/ml
7)	T n-Hexadecane (C16)	10.177	2926379	20.196 ug/ml
8)	T n-Octadecane (C18)	11.626	2998960	20.178 ug/ml
10)	T n-Eicosane (C20)	12.942	2901830	20.217 ug/ml
11)	T n-Heneicosane (C21)	13.556	2861156	20.235 ug/ml
13)	T n-Docosane (C22)	14.145	2843115	20.221 ug/ml
14)	T n-Tetracosane (C24)	15.253	2810799	20.195 ug/ml
15)	T n-Hexacosane (C26)	16.278	2733964	20.184 ug/ml
16)	T n-Octacosane (C28)	17.231	2647191	20.116 ug/ml
17)	T n-Tricontane (C30)	18.122	2666884	20.104 ug/ml
18)	T n-Dotriacontane (C32)	18.957	2526757	20.034 ug/ml
19)	T n-Tetratriacontane (C34)	19.742	2182601	20.045 ug/ml
20)	T n-Hexatriacontane (C36)	20.485	1874043	20.073 ug/ml
21)	T n-Octatriacontane (C38)	21.235	1767727	20.144 ug/ml
22)	T n-Tetracontane (C40)	22.171	1714051	20.222 ug/ml

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

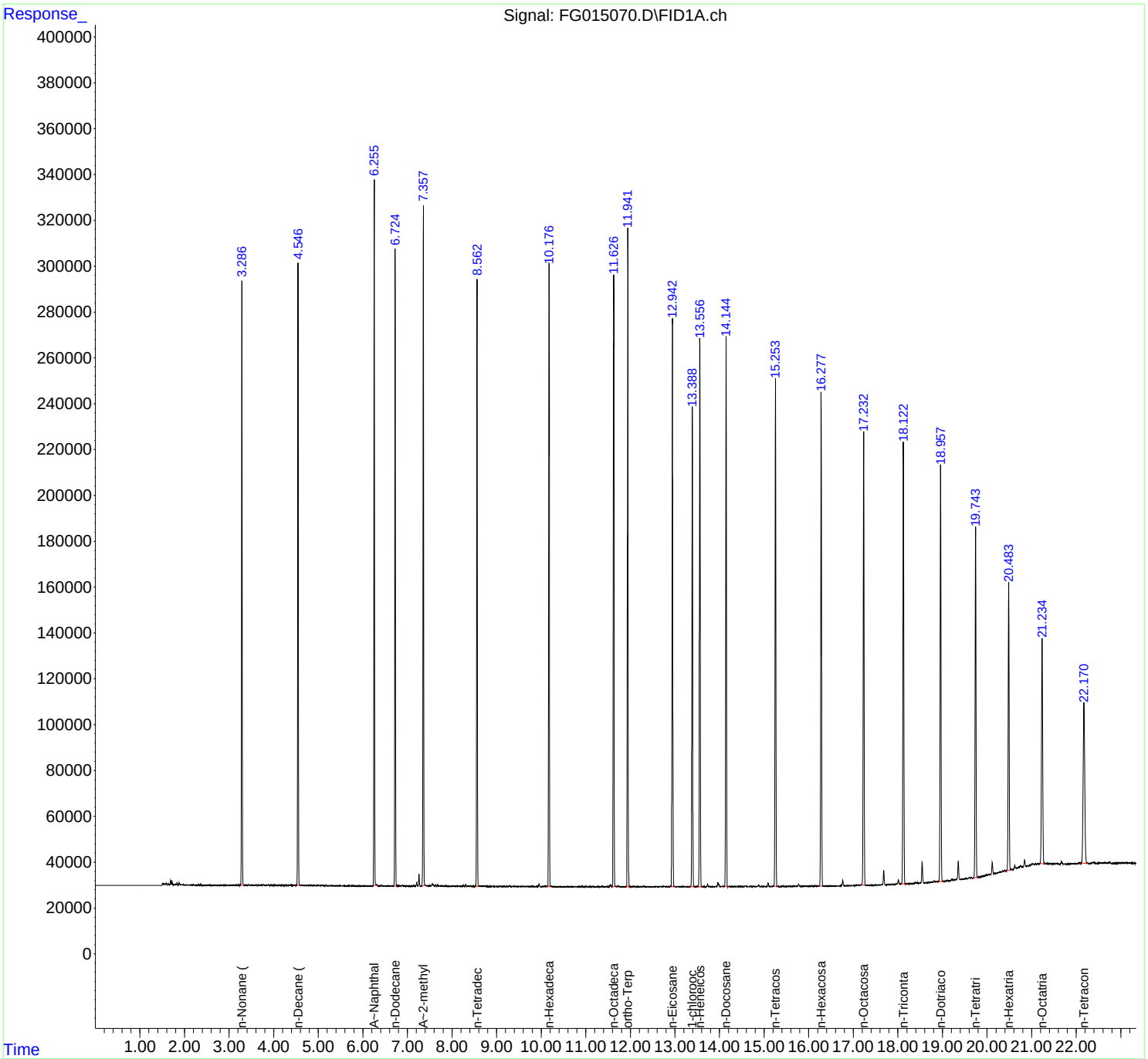
Quantitation Report (QT Reviewed)

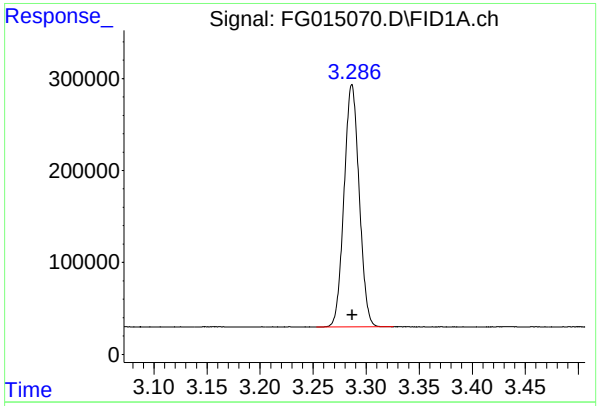
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015070.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:57
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Jan 14 12:09:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

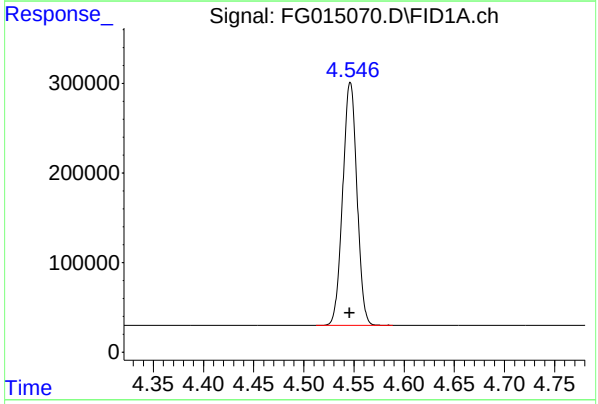




#1 n-Nonane (C9)

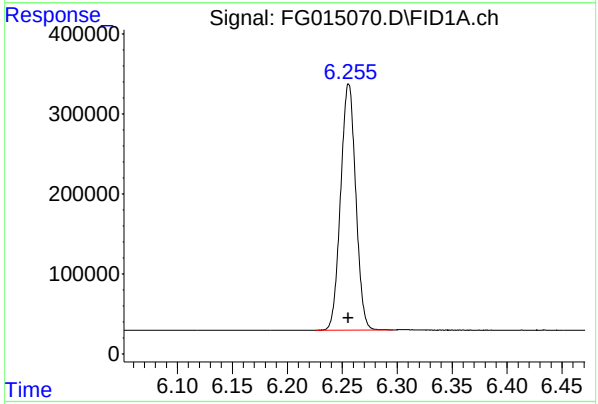
R.T.: 3.287 min
Delta R.T.: 0.000 min
Response: 2614988
Conc: 20.14 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



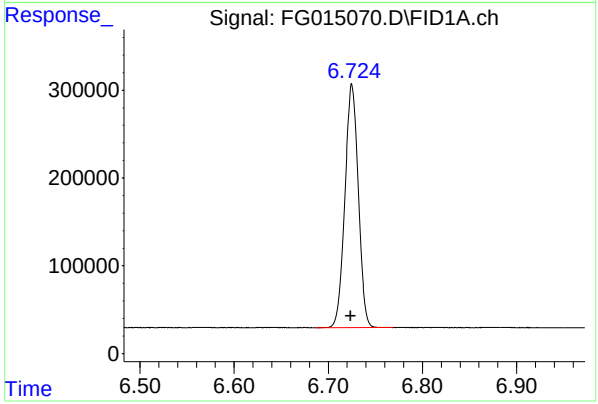
#2 n-Decane (C10)

R.T.: 4.546 min
Delta R.T.: 0.000 min
Response: 2679348
Conc: 20.16 ug/ml



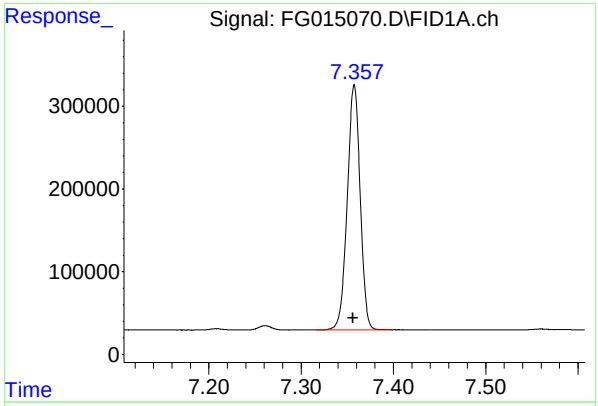
#3 A~Naphthalene (C11.7)

R.T.: 6.256 min
Delta R.T.: 0.000 min
Response: 2948919
Conc: 20.19 ug/ml



#4 n-Dodecane (C12)

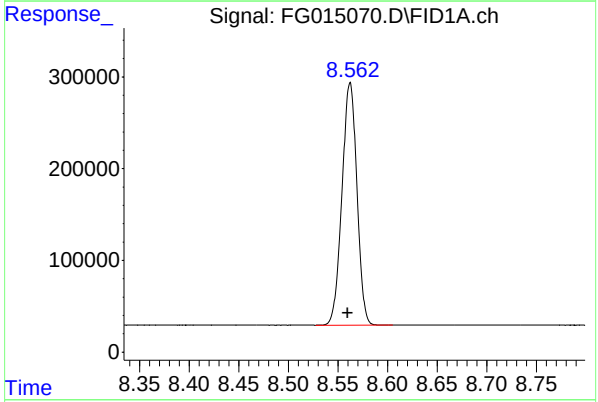
R.T.: 6.725 min
Delta R.T.: 0.001 min
Response: 2738909
Conc: 20.15 ug/ml



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

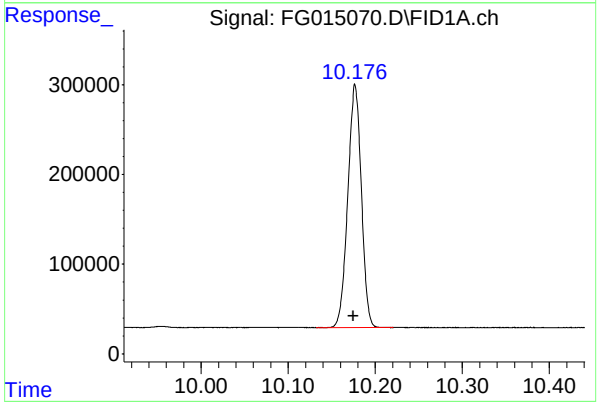
R.T.: 7.358 min
Delta R.T.: 0.002 min
Response: 2882199
Conc: 20.19 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



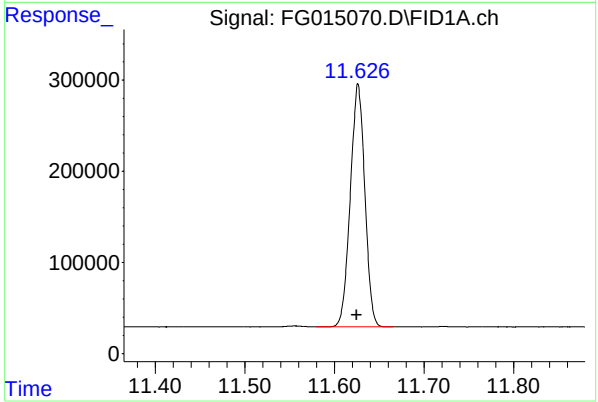
#6 n-Tetradecane (C14)

R.T.: 8.562 min
Delta R.T.: 0.002 min
Response: 2774707
Conc: 20.18 ug/ml



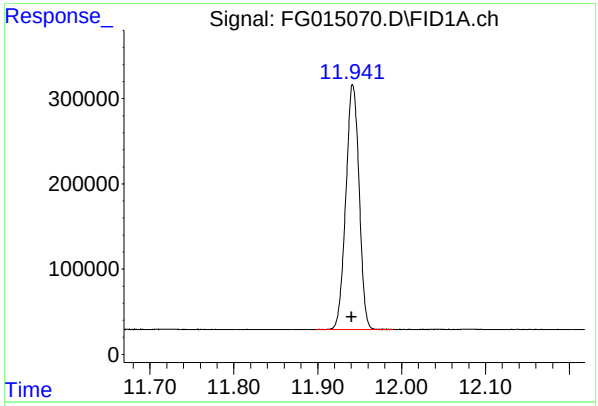
#7 n-Hexadecane (C16)

R.T.: 10.177 min
Delta R.T.: 0.002 min
Response: 2926379
Conc: 20.20 ug/ml



#8 n-Octadecane (C18)

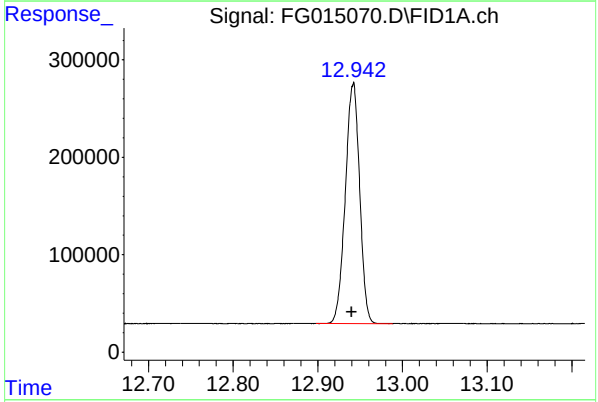
R.T.: 11.626 min
Delta R.T.: 0.002 min
Response: 2998960
Conc: 20.18 ug/ml



#9 ortho-Terphenyl (SURR)

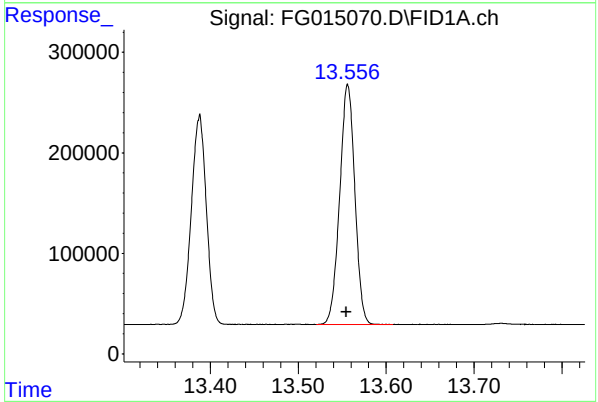
R.T.: 11.942 min
Delta R.T.: 0.002 min
Response: 3157928
Conc: 20.20 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



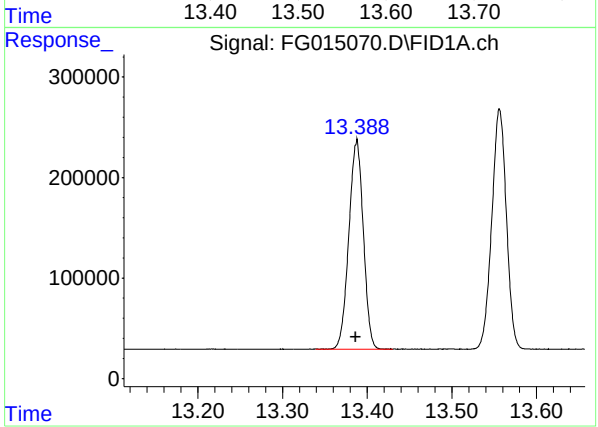
#10 n-Eicosane (C20)

R.T.: 12.942 min
Delta R.T.: 0.002 min
Response: 2901830
Conc: 20.22 ug/ml



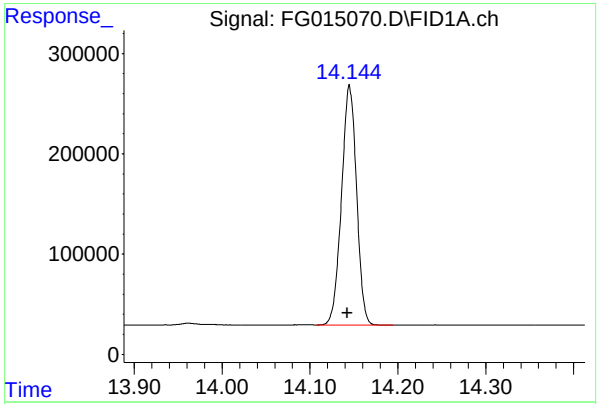
#11 n-Heneicosane (C21)

R.T.: 13.556 min
Delta R.T.: 0.002 min
Response: 2861156
Conc: 20.24 ug/ml



#12 1-chlorooctadecane (SURR)

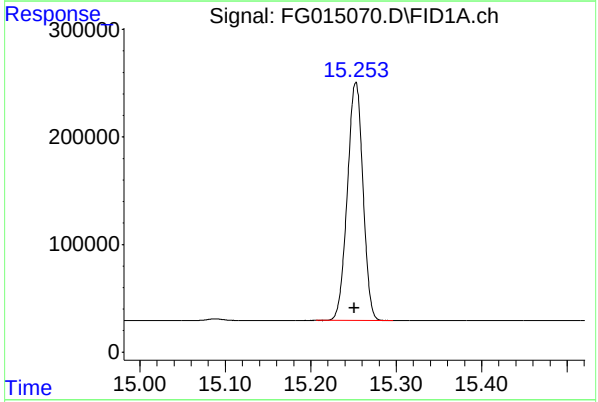
R.T.: 13.388 min
Delta R.T.: 0.001 min
Response: 2467859
Conc: 20.27 ug/ml



#13 n-Docosane (C22)

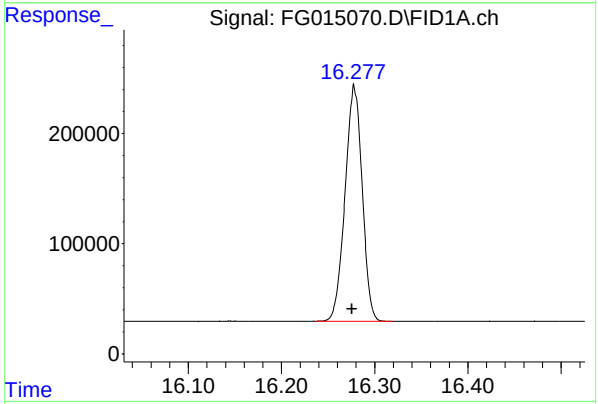
R.T.: 14.145 min
Delta R.T.: 0.002 min
Response: 2843115
Conc: 20.22 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



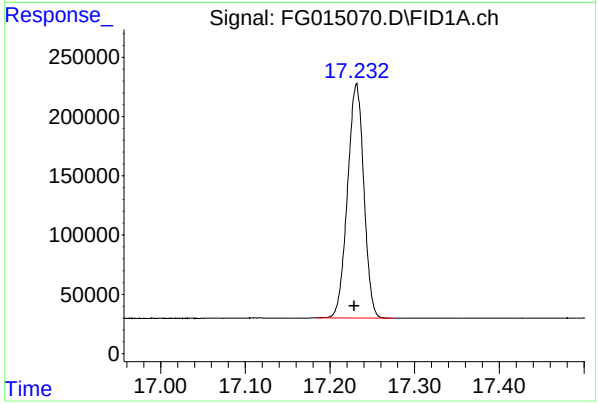
#14 n-Tetracosane (C24)

R.T.: 15.253 min
Delta R.T.: 0.002 min
Response: 2810799
Conc: 20.19 ug/ml



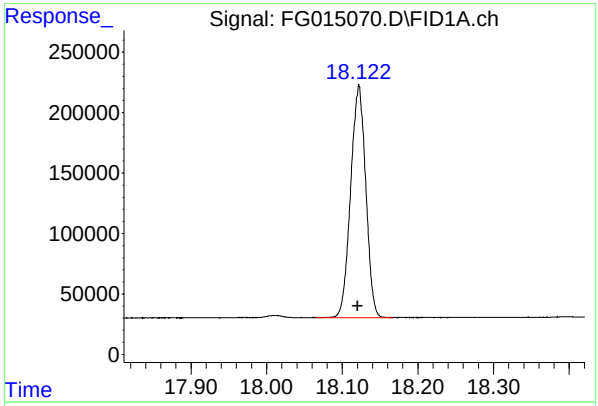
#15 n-Hexacosane (C26)

R.T.: 16.278 min
Delta R.T.: 0.002 min
Response: 2733964
Conc: 20.18 ug/ml



#16 n-Octacosane (C28)

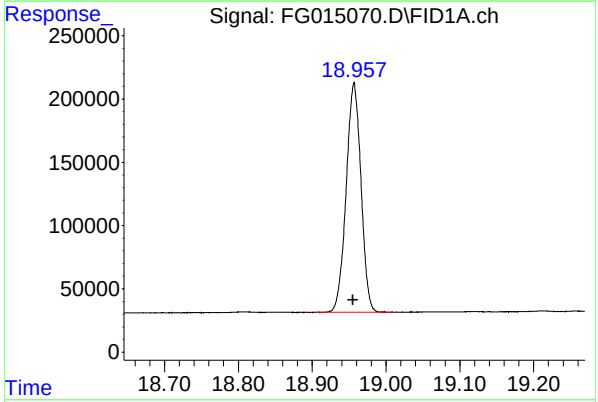
R.T.: 17.231 min
Delta R.T.: 0.003 min
Response: 2647191
Conc: 20.12 ug/ml



#17 n-Tricontane (C30)

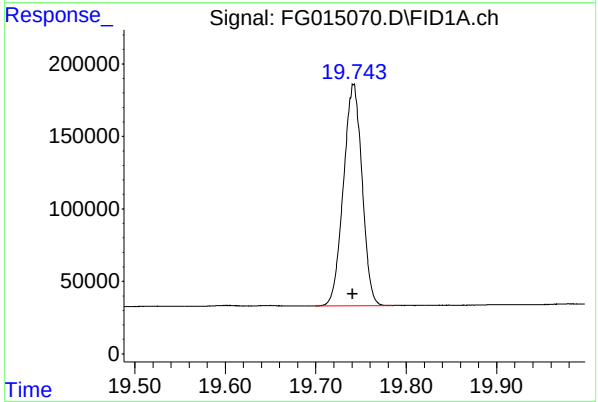
R.T.: 18.122 min
Delta R.T.: 0.002 min
Response: 2666884
Conc: 20.10 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



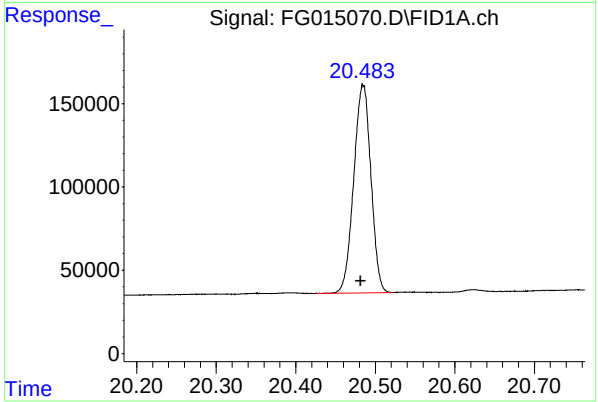
#18 n-Dotriacontane (C32)

R.T.: 18.957 min
Delta R.T.: 0.002 min
Response: 2526757
Conc: 20.03 ug/ml



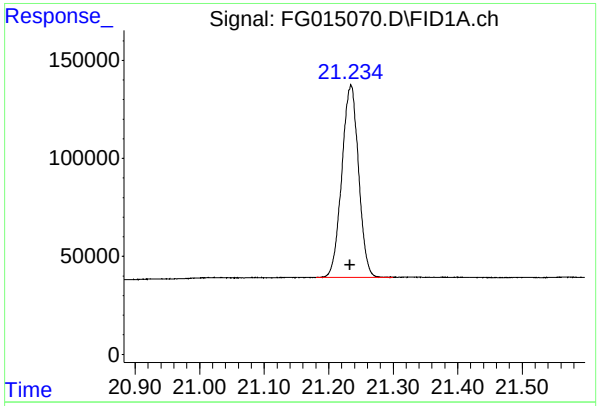
#19 n-Tetratriacontane (C34)

R.T.: 19.742 min
Delta R.T.: 0.001 min
Response: 2182601
Conc: 20.05 ug/ml



#20 n-Hexatriacontane (C36)

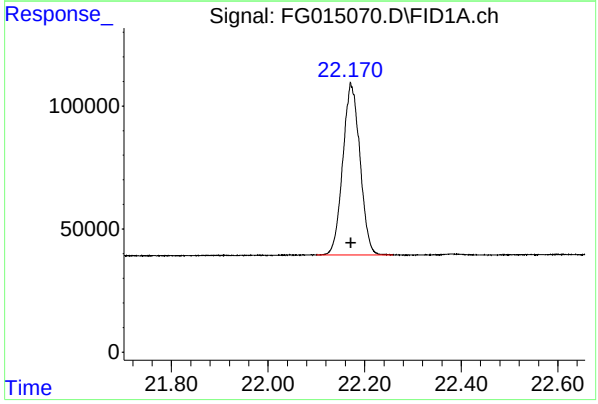
R.T.: 20.485 min
Delta R.T.: 0.003 min
Response: 1874043
Conc: 20.07 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.235 min
Delta R.T.: 0.002 min
Response: 1767727
Conc: 20.14 ug/ml

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.171 min
Delta R.T.: 0.000 min
Response: 1714051
Conc: 20.22 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG011425AL\
Data File : FG015070.D
Signal(s) : FID1A.ch
Acq On : 14 Jan 2025 11:57
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.287	3.253	3.325	BB	264052	2614988	82.81%	4.530%
2	4.546	4.512	4.589	BB	271232	2679348	84.85%	4.642%
3	6.256	6.226	6.296	BB	307237	2948919	93.38%	5.109%
4	6.725	6.687	6.769	BB	276692	2738909	86.73%	4.745%
5	7.358	7.316	7.400	BB	296603	2882199	91.27%	4.993%
6	8.562	8.528	8.605	BB	264206	2774707	87.86%	4.807%
7	10.177	10.132	10.220	BB	270071	2926379	92.67%	5.070%
8	11.626	11.580	11.665	BB	266781	2998960	94.97%	5.196%
9	11.942	11.898	11.990	BB	286466	3157928	100.00%	5.471%
10	12.942	12.898	12.989	BB	245622	2901830	91.89%	5.027%
11	13.388	13.340	13.430	BB	208162	2467859	78.15%	4.276%
12	13.556	13.520	13.608	BB	238945	2861156	90.60%	4.957%
13	14.145	14.107	14.195	BB	238962	2843115	90.03%	4.926%
14	15.253	15.206	15.296	BB	221104	2810799	89.01%	4.870%
15	16.278	16.237	16.320	BB	213031	2733964	86.57%	4.737%
16	17.231	17.184	17.275	BB	197399	2647191	83.83%	4.586%
17	18.122	18.065	18.167	BB	192875	2666884	84.45%	4.620%
18	18.957	18.905	19.009	BB	181968	2526757	80.01%	4.378%
19	19.742	19.700	19.785	BB	152284	2182601	69.11%	3.781%
20	20.485	20.425	20.522	BB	124336	1874043	59.34%	3.247%
21	21.235	21.180	21.300	BB	98260	1767727	55.98%	3.063%
22	22.171	22.100	22.259	BB	69882	1714051	54.28%	2.970%

Sum of corrected areas: 57720314

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FC012825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068132.D**						
Aliphatic EPH	41511557.000	360.000	3.129	21.605	115309.881	123700.655	6.783
Aliphatic C9-C12	7659890.000	60.000	3.129	6.397	127664.833	138488.174	7.815
Aliphatic C12-C16	5096643.000	40.000	6.398	9.782	127416.075	137713.071	7.477
Aliphatic C16-C21	7434215.000	60.000	9.783	13.137	123903.583	135019.289	8.233
Aliphatic C21-C28	9356083.000	80.000	13.138	16.791	116951.038	127207.526	8.063
Aliphatic C28-C40	11964726.000	120.000	16.792	21.605	99706.050	103638.860	3.795

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Jan 2025 15:06
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068132.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.129	6.397	7659890.000	60.000	ug/ml
Aliphatic C12-C16	6.398	9.782	5096643.000	40.000	ug/ml
Aliphatic C16-C21	9.783	13.137	7434215.000	60.000	ug/ml
Aliphatic C21-C28	13.138	16.791	9356083.000	80.000	ug/ml
Aliphatic C28-C40	16.792	21.605	11964726.000	120.000	ug/ml
Aliphatic EPH	3.129	21.605	41511557.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068132.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:06
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:44:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.427	2859008	18.296 ug/ml
	Spiked Amount 50.000		Recovery = 36.59%	
12)	S 1-chlorooctadecane (S...	12.868	2105479	18.308 ug/ml
	Spiked Amount 50.000		Recovery = 36.62%	
	Target Compounds			
1)	T n-Nonane (C9)	3.229	2507198	18.310 ug/ml
2)	T n-Decane (C10)	4.288	2574730	18.546 ug/ml
3)	T A~Naphthalene (C11.7)	5.857	2801716	18.662 ug/ml
4)	T n-Dodecane (C12)	6.297	2577962	18.454 ug/ml
5)	T A~2-methylnaphthalene...	6.910	2681687	18.670 ug/ml
6)	T n-Tetradecane (C14)	8.086	2524741	18.499 ug/ml
7)	T n-Hexadecane (C16)	9.682	2571902	18.510 ug/ml
8)	T n-Octadecane (C18)	11.121	2575161	18.405 ug/ml
10)	T n-Eicosane (C20)	12.427	2455034	18.348 ug/ml
11)	T n-Heneicosane (C21)	13.037	2404020	18.304 ug/ml
13)	T n-Docosane (C22)	13.623	2375706	18.340 ug/ml
14)	T n-Tetracosane (C24)	14.723	2350334	18.307 ug/ml
15)	T n-Hexacosane (C26)	15.742	2304647	18.315 ug/ml
16)	T n-Octacosane (C28)	16.691	2325396	18.592 ug/ml
17)	T n-Tricontane (C30)	17.576	2467640	19.091 ug/ml
18)	T n-Dotriacontane (C32)	18.407	2419064	19.351 ug/ml
19)	T n-Tetratriacontane (C34)	19.190	2095897	19.321 ug/ml
20)	T n-Hexatriacontane (C36)	19.929	1775801	19.189 ug/ml
21)	T n-Octatriacontane (C38)	20.643	1642652	19.170 ug/ml
22)	T n-Tetracontane (C40)	21.505	1563672	19.338 ug/ml

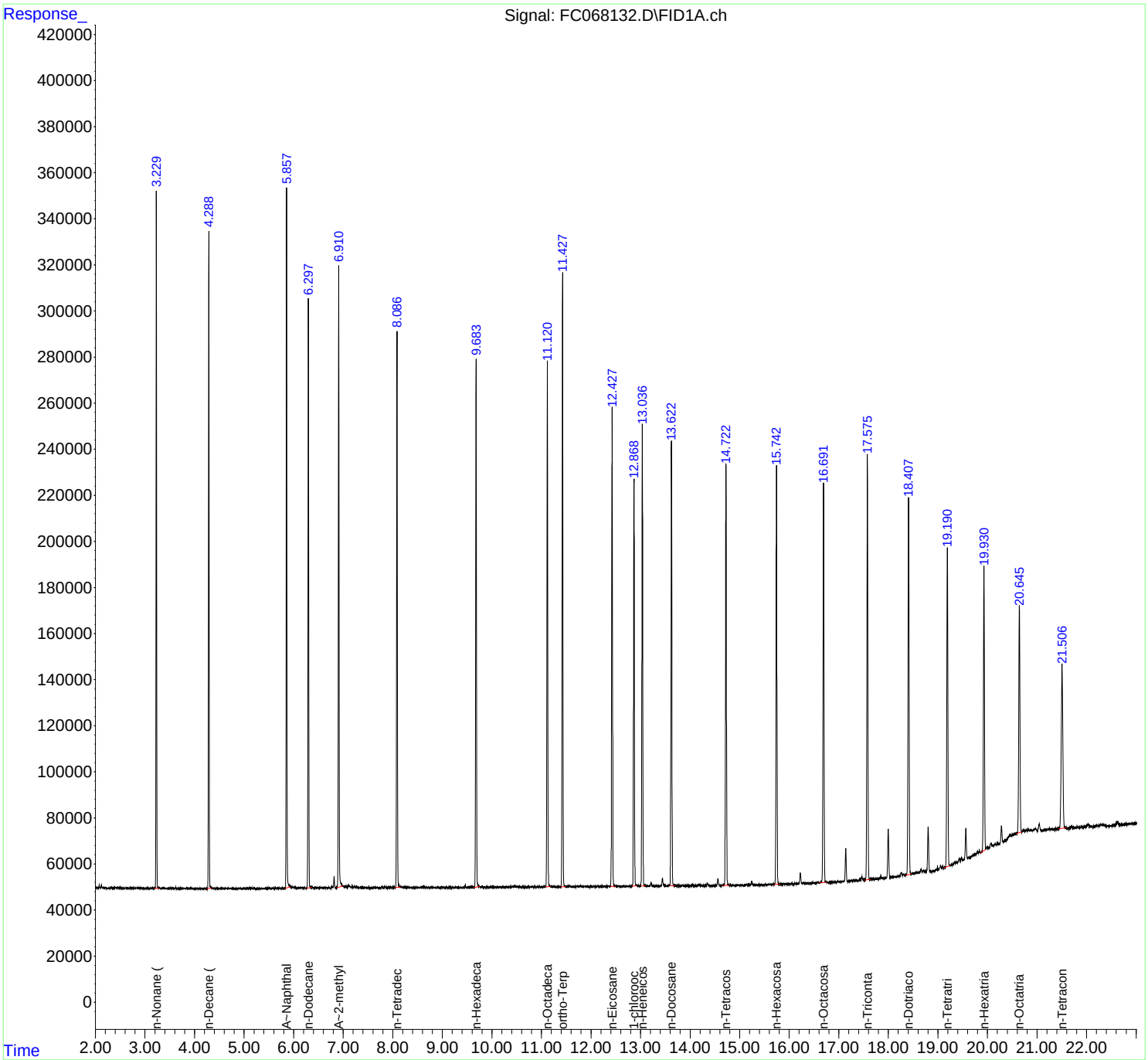
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068132.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:06
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:44:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068132.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:06
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.229	3.198	3.288	BB	298213	2507198	87.69%	4.825%
2	4.288	4.244	4.351	BB	284008	2574730	90.06%	4.955%
3	5.857	5.828	5.931	BB	303730	2801716	98.00%	5.392%
4	6.297	6.258	6.358	BB	256117	2577962	90.17%	4.961%
5	6.910	6.868	6.994	BB	268654	2681687	93.80%	5.161%
6	8.086	8.048	8.151	BB	241321	2524741	88.31%	4.859%
7	9.682	9.644	9.748	BB	226882	2571902	89.96%	4.950%
8	11.121	11.084	11.181	BB	229275	2575161	90.07%	4.956%
9	11.427	11.391	11.491	BB	266897	2859008	100.00%	5.502%
10	12.427	12.388	12.491	BB	207217	2455034	85.87%	4.725%
11	12.868	12.831	12.924	BB	176263	2105479	73.64%	4.052%
12	13.037	13.001	13.098	BB	199536	2404020	84.09%	4.627%
13	13.623	13.588	13.684	BB	190156	2375706	83.10%	4.572%
14	14.723	14.651	14.784	BB	183141	2350334	82.21%	4.523%
15	15.742	15.688	15.808	BB	179487	2304647	80.61%	4.435%
16	16.691	16.614	16.754	BB	173537	2325396	81.34%	4.475%
17	17.576	17.524	17.641	BB	182017	2467640	86.31%	4.749%
18	18.407	18.344	18.468	BB	163269	2419064	84.61%	4.656%
19	19.190	19.121	19.248	BB	139057	2095897	73.31%	4.034%
20	19.929	19.871	19.966	BV	122501	1775801	62.11%	3.418%
21	20.643	20.581	20.694	BB	99195	1642652	57.46%	3.161%
22	21.505	21.431	21.584	BB	70304	1563672	54.69%	3.009%
			Sum of corrected areas:			51959447		

Aliphatic EPH 012425.M Wed Jan 29 02:06:25 2025

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

Continuing Calibration Report for SequenceID : FC012825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC068141.D**						
Aliphatic EPH	42381773.000	360.000	3.129	21.605	117727.147	123700.655	4.829
Aliphatic C9-C12	7788410.000	60.000	3.129	6.397	129806.833	138488.174	6.269
Aliphatic C12-C16	5151715.000	40.000	6.398	9.782	128792.875	137713.071	6.477
Aliphatic C16-C21	7539228.000	60.000	9.783	13.137	125653.800	135019.289	6.936
Aliphatic C21-C28	9526036.000	80.000	13.138	16.791	119075.450	127207.526	6.393
Aliphatic C28-C40	12376384.000	120.000	16.792	21.605	103136.533	103638.860	0.485

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Jan 2025 21:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068141.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.129	6.397	7788410.000	60.000	ug/ml
Aliphatic C12-C16	6.398	9.782	5151715.000	40.000	ug/ml
Aliphatic C16-C21	9.783	13.137	7539228.000	60.000	ug/ml
Aliphatic C21-C28	13.138	16.791	9526036.000	80.000	ug/ml
Aliphatic C28-C40	16.792	21.605	12376384.000	120.000	ug/ml
Aliphatic EPH	3.129	21.605	42381773.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068141.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:12
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:46:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.425	2888212	18.483 ug/ml
Spiked Amount	50.000		Recovery =	36.97%
12) S	1-chlorooctadecane (S...	12.866	2146239	18.662 ug/ml
Spiked Amount	50.000		Recovery =	37.32%
	Target Compounds			
1) T	n-Nonane (C9)	3.230	2552300	18.639 ug/ml
2) T	n-Decane (C10)	4.289	2618993	18.864 ug/ml
3) T	A~Naphthalene (C11.7)	5.857	2831973	18.864 ug/ml
4) T	n-Dodecane (C12)	6.298	2617117	18.734 ug/ml
5) T	A~2-methylnaphthalene...	6.910	2713564	18.892 ug/ml
6) T	n-Tetradecane (C14)	8.086	2554107	18.714 ug/ml
7) T	n-Hexadecane (C16)	9.681	2597608	18.695 ug/ml
8) T	n-Octadecane (C18)	11.119	2609291	18.649 ug/ml
10) T	n-Eicosane (C20)	12.425	2489966	18.609 ug/ml
11) T	n-Heneicosane (C21)	13.035	2439971	18.578 ug/ml
13) T	n-Docosane (C22)	13.620	2410985	18.613 ug/ml
14) T	n-Tetracosane (C24)	14.721	2381382	18.549 ug/ml
15) T	n-Hexacosane (C26)	15.739	2350657	18.680 ug/ml
16) T	n-Octacosane (C28)	16.687	2383012	19.053 ug/ml
17) T	n-Tricontane (C30)	17.573	2543730	19.680 ug/ml
18) T	n-Dotriacontane (C32)	18.404	2506302	20.049 ug/ml
19) T	n-Tetratriacontane (C34)	19.186	2179135	20.089 ug/ml
20) T	n-Hexatriacontane (C36)	19.924	1837859	19.859 ug/ml
21) T	n-Octatriacontane (C38)	20.639	1692566	19.753 ug/ml
22) T	n-Tetracontane (C40)	21.501	1616792	19.995 ug/ml

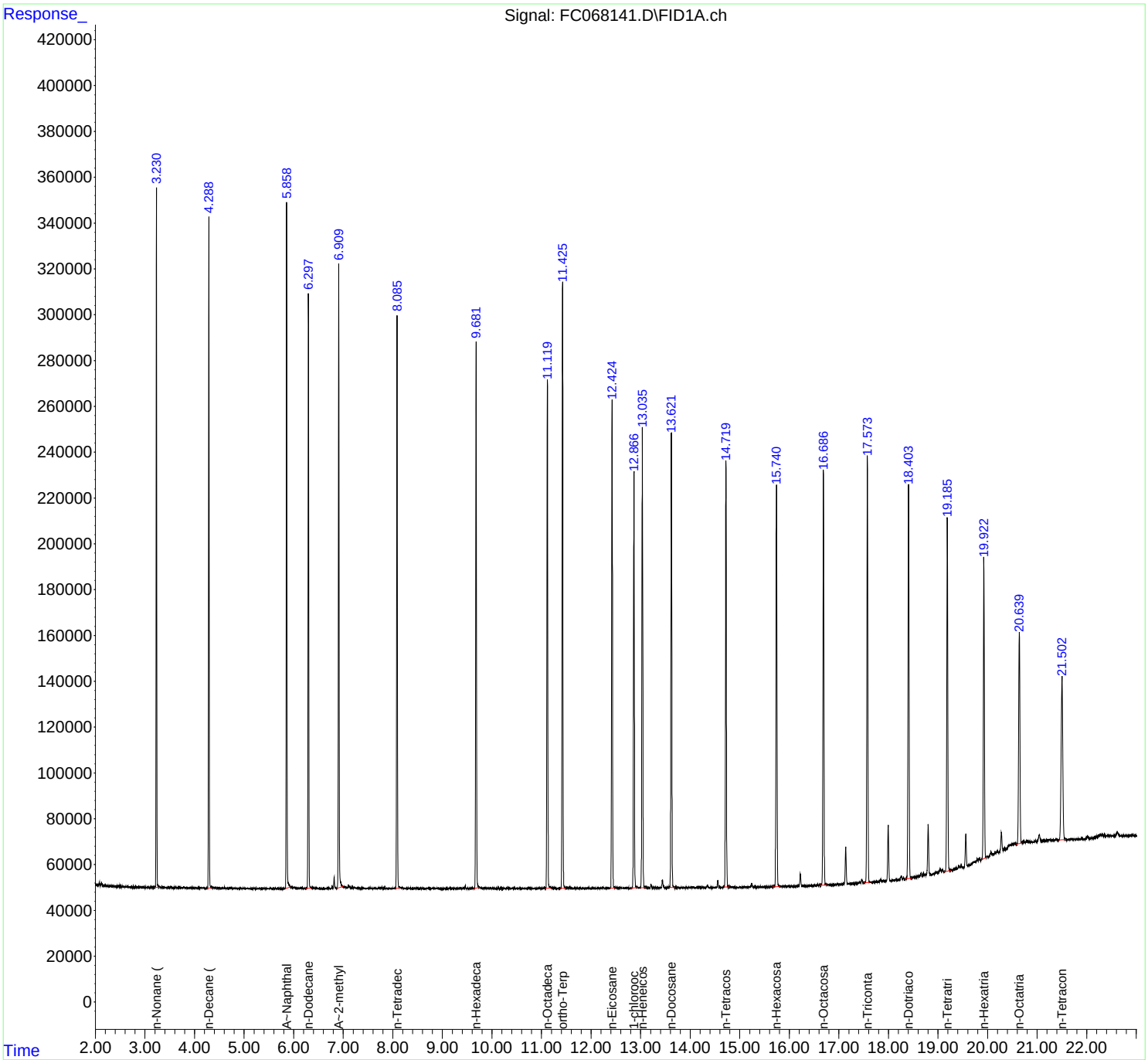
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068141.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:12
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:46:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068141.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 21:12
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.230	3.201	3.291	BB	304636	2552300	88.37%	4.819%
2	4.289	4.251	4.351	BB	291638	2618993	90.68%	4.945%
3	5.857	5.824	5.934	BB	299929	2831973	98.05%	5.347%
4	6.298	6.248	6.361	BB	261007	2617117	90.61%	4.942%
5	6.910	6.868	6.994	BB	271583	2713564	93.95%	5.124%
6	8.086	8.051	8.151	BB	249263	2554107	88.43%	4.823%
7	9.681	9.634	9.751	BB	237543	2597608	89.94%	4.905%
8	11.119	11.074	11.188	BB	219965	2609291	90.34%	4.927%
9	11.425	11.378	11.488	BB	264356	2888212	100.00%	5.453%
10	12.425	12.388	12.491	BB	213418	2489966	86.21%	4.701%
11	12.866	12.808	12.941	BB	182800	2146239	74.31%	4.052%
12	13.035	12.994	13.104	BB	201301	2439971	84.48%	4.607%
13	13.620	13.584	13.691	BB	199905	2410985	83.48%	4.552%
14	14.721	14.681	14.791	BB	185586	2381382	82.45%	4.496%
15	15.739	15.664	15.801	BB	178792	2350657	81.39%	4.438%
16	16.687	16.614	16.758	BB	180887	2383012	82.51%	4.499%
17	17.573	17.494	17.634	BB	184967	2543730	88.07%	4.803%
18	18.404	18.334	18.468	BB	169216	2506302	86.78%	4.732%
19	19.186	19.121	19.258	BB	153749	2179135	75.45%	4.115%
20	19.924	19.871	19.964	BB	128751	1837859	63.63%	3.470%
21	20.639	20.581	20.694	BB	92165	1692566	58.60%	3.196%
22	21.501	21.431	21.581	BB	70126	1616792	55.98%	3.053%
			Sum of corrected areas:			52961761		

Aliphatic EPH 012425.M Wed Jan 29 02:09:05 2025

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FD012825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048966.D**						
Aromatic C12-C16	9924062.000	60.000	5.795	8.400	165401.033	162211.796	-1.966
Aromatic C16-C21	12250818.000	80.000	8.401	12.666	153135.225	154648.237	0.978
Aromatic C21-C36	26642499.000	180.000	12.667	18.077	148013.883	142502.922	-3.867
Aromatic EPH	55294847.000	360.000	4.075	18.077	153596.797	149900.883	-2.466
Aromatic C10-C12	6477468.000	40.000	4.075	5.794	161936.700	155230.631	-4.320

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Jan 2025 15:06
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048966.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.794	6477468.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.400	9924062.000	60.000	ug/ml
Aromatic C16-C21	8.401	12.666	12250818.000	80.000	ug/ml
Aromatic C21-C36	12.667	18.077	26642499.000	180.000	ug/ml
Aromatic EPH	4.075	18.077	55294847.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048966.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:06
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 02:10:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.354	2955271	20.765 ug/ml
Spiked Amount	50.000		Recovery =	41.53%
6) S	2-Flurobiphenyl (SURR)	8.206	1825763	21.457 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.91%
11) S	ortho-Terphenyl (SURR)	11.240	3328258	20.238 ug/ml
Spiked Amount	50.000		Recovery =	40.48%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.175	3201194	20.767 ug/ml
2) T	Naphthalene (C11.7)	5.694	3276274	20.960 ug/ml
3) T	2-Methylnaphthalene (...	6.741	3230426	20.824 ug/ml
5) T	Acenaphthylene (C15.06)	8.006	3323055	20.319 ug/ml
7) T	Acenaphthene (C15.5)	8.300	3370581	20.067 ug/ml
8) T	Flouorene (C16.55)	9.080	3219383	20.580 ug/ml
9) T	Phenanthrene (C19.36)	10.468	3161455	20.758 ug/ml
10) T	Anthracene (C19.43)	10.546	2693336	17.681 ug/ml
12) T	Fluoranthene (C21.85)	12.274	3251935	20.674 ug/ml
13) T	Pyrene (C20.8)	12.566	3176644	20.165 ug/ml
14) T	Benzo[a]anthracene (C...	14.437	2794103	21.714 ug/ml
15) T	Chrysene (C27.41)	14.478	3351398	19.819 ug/ml
16) T	benzo[b]fluoranthene ...	15.985	2944020	21.547 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.015	3229473	19.940 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	2791507	20.057 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.729	2149769	20.613 ug/ml
20) T	Dibenz[a,h]anthracene...	17.770	3198421	22.405 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.977	2931873	20.554 ug/ml

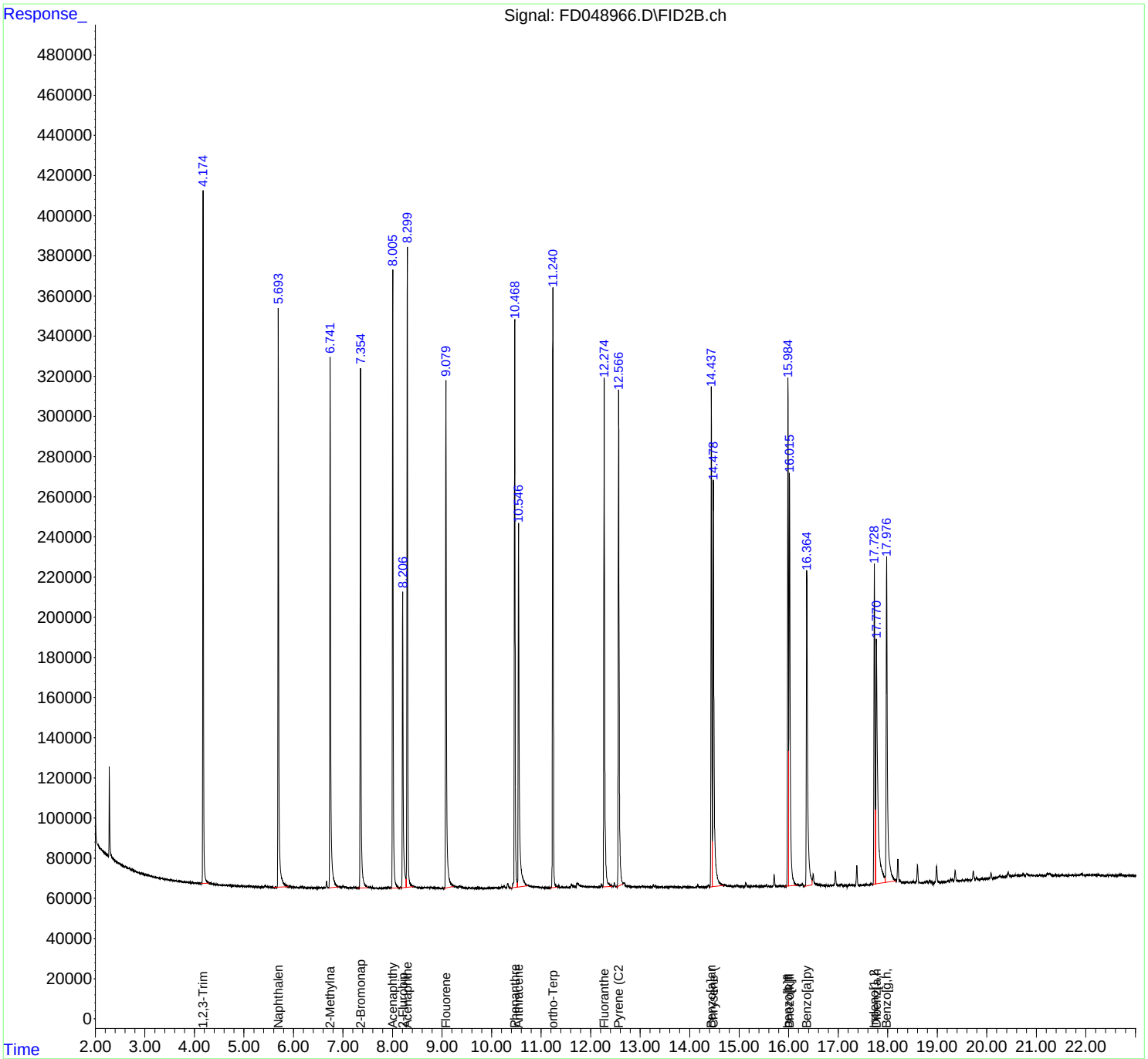
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048966.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:06
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 02:10:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048966.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:06
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.175	4.130	4.295	BB	343043	3201194	94.97%	5.049%
2	5.694	5.598	5.898	BB	288014	3276274	97.20%	5.167%
3	6.741	6.713	6.918	BB	263024	3230426	95.84%	5.095%
4	7.354	7.277	7.503	BB	258895	2955271	87.68%	4.661%
5	8.006	7.960	8.143	BB	307295	3323055	98.59%	5.241%
6	8.206	8.155	8.274	BV	146746	1825763	54.17%	2.880%
7	8.300	8.274	8.425	VB	318879	3370581	100.00%	5.316%
8	9.080	9.032	9.233	BB	251511	3219383	95.51%	5.078%
9	10.468	10.385	10.523	BV	282865	3161455	93.80%	4.986%
10	10.546	10.523	10.738	VB	179838	2693336	79.91%	4.248%
11	11.240	11.187	11.332	BV	299354	3328258	98.74%	5.249%
12	12.274	12.245	12.437	VB	252945	3251935	96.48%	5.129%
13	12.566	12.520	12.651	BV	246761	3176644	94.25%	5.010%
14	14.437	14.408	14.458	BV	248659	2794103	82.90%	4.407%
15	14.478	14.458	14.687	VB	202603	3351398	99.43%	5.286%
16	15.985	15.930	16.000	BV	253409	2944020	87.34%	4.643%
17	16.015	16.000	16.188	VB	205580	3229473	95.81%	5.093%
18	16.364	16.311	16.472	PV	157006	2791507	82.82%	4.403%
19	17.729	17.690	17.751	BV	159223	2149769	63.78%	3.391%
20	17.770	17.751	17.948	VV	121725	3198421	94.89%	5.044%
21	17.977	17.948	18.172	VV	162203	2931873	86.98%	4.624%
			Sum of corrected areas:			63404139		

Aromatic EPH 012425.M Wed Jan 29 02:46:16 2025

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

Continuing Calibration Report for SequenceID : FD012825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048975.D**						
Aromatic C12-C16	9985859.000	60.000	5.795	8.400	166430.983	162211.796	-2.601
Aromatic C16-C21	12307844.000	80.000	8.401	12.666	153848.050	154648.237	0.517
Aromatic C21-C36	26576852.000	180.000	12.667	18.077	147649.178	142502.922	-3.611
Aromatic EPH	55347488.000	360.000	4.075	18.077	153743.022	149900.883	-2.563
Aromatic C10-C12	6476933.000	40.000	4.075	5.794	161923.325	155230.631	-4.311

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Jan 2025 21:12
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048975.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.075	5.794	6476933.000	40.000	ug/ml
Aromatic C12-C16	5.795	8.400	9985859.000	60.000	ug/ml
Aromatic C16-C21	8.401	12.666	12307844.000	80.000	ug/ml
Aromatic C21-C36	12.667	18.077	26576852.000	180.000	ug/ml
Aromatic EPH	4.075	18.077	55347488.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048975.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:12
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 02:12:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.358	2951394	20.737 ug/ml
Spiked Amount	50.000		Recovery =	41.47%
6) S	2-Flurobiphenyl (SURR)	8.209	1815917	21.342 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	42.68%
11) S	ortho-Terphenyl (SURR)	11.241	3342919	20.328 ug/ml
Spiked Amount	50.000		Recovery =	40.66%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.179	3208509	20.815 ug/ml
2) T	Naphthalene (C11.7)	5.698	3268424	20.909 ug/ml
3) T	2-Methylnaphthalene (...	6.745	3247821	20.936 ug/ml
5) T	Acenaphthylene (C15.06)	8.009	3332407	20.376 ug/ml
7) T	Acenaphthene (C15.5)	8.302	3405631	20.276 ug/ml
8) T	Flouorene (C16.55)	9.083	3239892	20.711 ug/ml
9) T	Phenanthrene (C19.36)	10.470	3160937	20.755 ug/ml
10) T	Anthracene (C19.43)	10.548	2729771	17.921 ug/ml
12) T	Fluoranthene (C21.85)	12.275	3235179	20.568 ug/ml
13) T	Pyrene (C20.8)	12.567	3177244	20.169 ug/ml
14) T	Benzo[a]anthracene (C...	14.438	2792505	21.701 ug/ml
15) T	Chrysene (C27.41)	14.479	3347386	19.796 ug/ml
16) T	benzo[b]fluoranthene ...	15.985	2944310	21.549 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.016	3225871	19.918 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.364	2757460	19.812 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.730	2131713	20.440 ug/ml
20) T	Dibenz[a,h]anthracene...	17.772	3223730	22.582 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.978	2918698	20.462 ug/ml

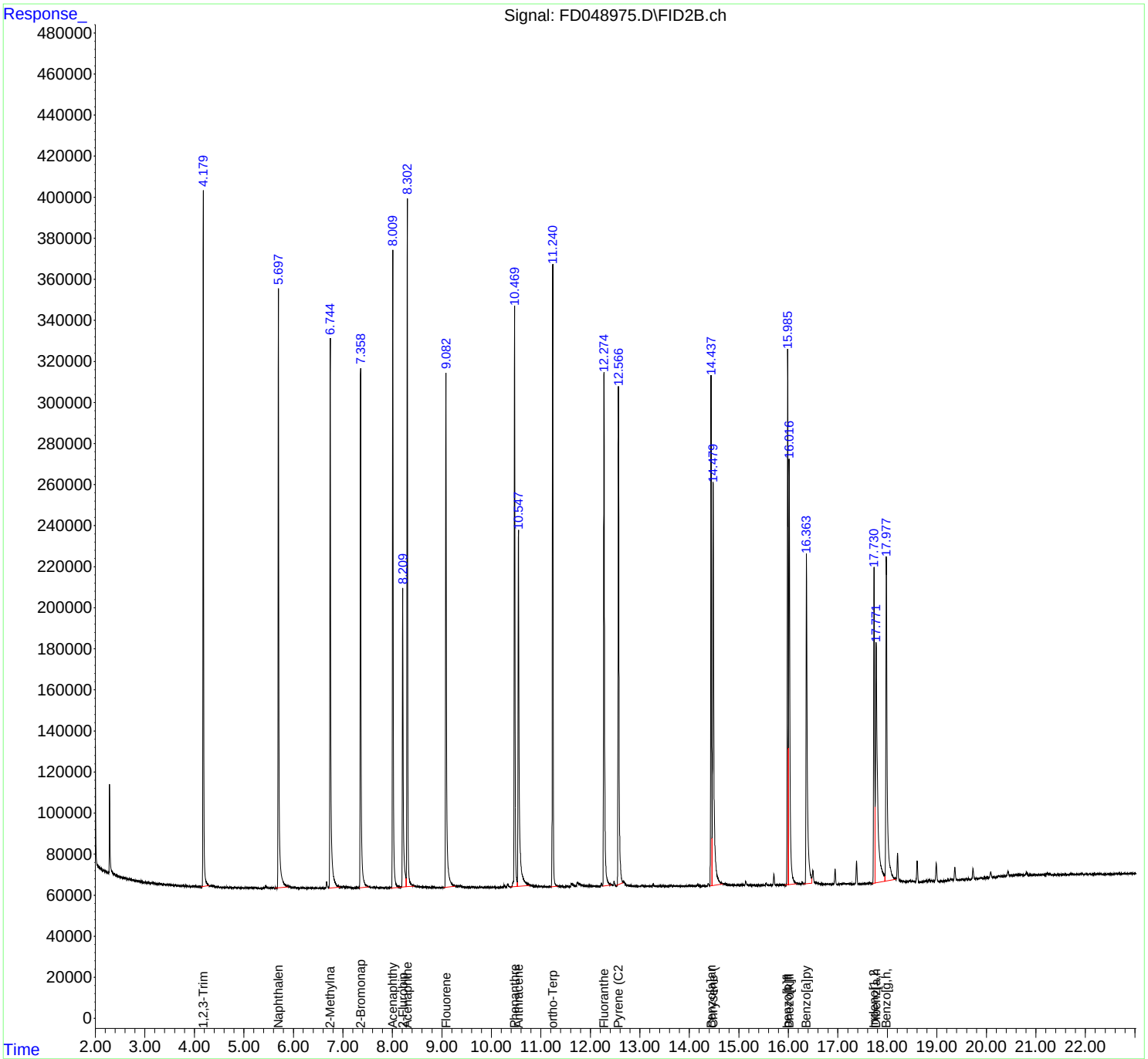
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048975.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:12
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 02:12:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048975.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 21:12
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.179	4.130	4.300	BB	338135	3208509	94.21%	5.056%
2	5.698	5.625	5.903	BB	291487	3268424	95.97%	5.151%
3	6.745	6.717	6.947	PB	266992	3247821	95.37%	5.118%
4	7.358	7.332	7.520	BB	254029	2951394	86.66%	4.651%
5	8.009	7.960	8.138	BV	311109	3332407	97.85%	5.251%
6	8.209	8.138	8.279	PV	145207	1815917	53.32%	2.862%
7	8.302	8.279	8.440	VB	334807	3405631	100.00%	5.367%
8	9.083	9.028	9.272	BB	250456	3239892	95.13%	5.106%
9	10.470	10.378	10.525	BV	282130	3160937	92.82%	4.981%
10	10.548	10.525	10.777	VB	173071	2729771	80.15%	4.302%
11	11.241	11.195	11.345	BB	302576	3342919	98.16%	5.268%
12	12.275	12.248	12.428	PB	250473	3235179	94.99%	5.098%
13	12.567	12.517	12.658	BV	242515	3177244	93.29%	5.007%
14	14.438	14.410	14.458	PV	247886	2792505	82.00%	4.401%
15	14.479	14.458	14.675	VB	196934	3347386	98.29%	5.275%
16	15.985	15.930	16.000	BV	260856	2944310	86.45%	4.640%
17	16.016	16.000	16.173	VB	206797	3225871	94.72%	5.083%
18	16.364	16.308	16.472	BV	160473	2757460	80.97%	4.345%
19	17.730	17.690	17.753	BV	154004	2131713	62.59%	3.359%
20	17.772	17.753	17.950	VV	117120	3223730	94.66%	5.080%
21	17.978	17.950	18.173	VV	158204	2918698	85.70%	4.599%
			Sum of corrected areas:			63457719		

Aromatic EPH 012425.M Wed Jan 29 02:49:39 2025

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

Continuing Calibration Report for SequenceID : FF012825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015325.D**						
Aromatic C10-C12	6827875.000	40.000	4.485	6.355	170696.875	160369.151	-6.440
Aromatic C12-C16	9997025.000	60.000	6.356	9.053	166617.083	160326.403	-3.924
Aromatic C16-C21	12162785.000	80.000	9.054	13.372	152034.813	156685.093	2.968
Aromatic C21-C36	25021267.000	180.000	13.373	18.824	139007.039	145594.493	4.525
Aromatic EPH	54008952.000	360.000	4.485	18.824	150024.867	152156.018	1.401

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Jan 2025 14:00
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015325.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.485	6.355	6827875.000	40.000	ug/ml
Aromatic C12-C16	6.356	9.053	9997025.000	60.000	ug/ml
Aromatic C16-C21	9.054	13.372	12162785.000	80.000	ug/ml
Aromatic C21-C36	13.373	18.824	25021267.000	180.000	ug/ml
Aromatic EPH	4.485	18.824	54008952.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015325.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 14:00
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:46:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.979	2987640	22.634 ug/ml
Spiked Amount	50.000		Recovery =	45.27%
6) S	2-Flurobiphenyl (SURR)	8.854	1973199	23.377 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	46.75%
11) S	ortho-Terphenyl (SURR)	11.922	3362904	19.535 ug/ml
Spiked Amount	50.000		Recovery =	39.07%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.585	3385204	21.104 ug/ml
2) T	Naphthalene (C11.7)	6.255	3442671	21.472 ug/ml
3) T	2-Methylnaphthalene (...	7.352	3358759	21.122 ug/ml
5) T	Acenaphthylene (C15.06)	8.654	3330577	20.960 ug/ml
7) T	Acenaphthene (C15.5)	8.953	3307689	20.285 ug/ml
8) T	Flouorene (C16.55)	9.743	3307245	21.004 ug/ml
9) T	Phenanthrene (C19.36)	11.151	3107523	19.463 ug/ml
10) T	Anthracene (C19.43)	11.225	2668185	18.072 ug/ml
12) T	Fluoranthene (C21.85)	12.974	3148072	19.029 ug/ml
13) T	Pyrene (C20.8)	13.272	3079832	19.014 ug/ml
14) T	Benzo[a]anthracene (C...	15.155	2731786	18.312 ug/ml
15) T	Chrysene (C27.41)	15.198	2874492	18.506 ug/ml
16) T	benzo[b]fluoranthene ...	16.715	2801288	18.929 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.748	2818784	19.936 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.095	2635262	18.548 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.468	2423404	19.232 ug/ml
20) T	Dibenz[a,h]anthracene...	18.508	2816447	19.036 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.724	2771732	20.533 ug/ml

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

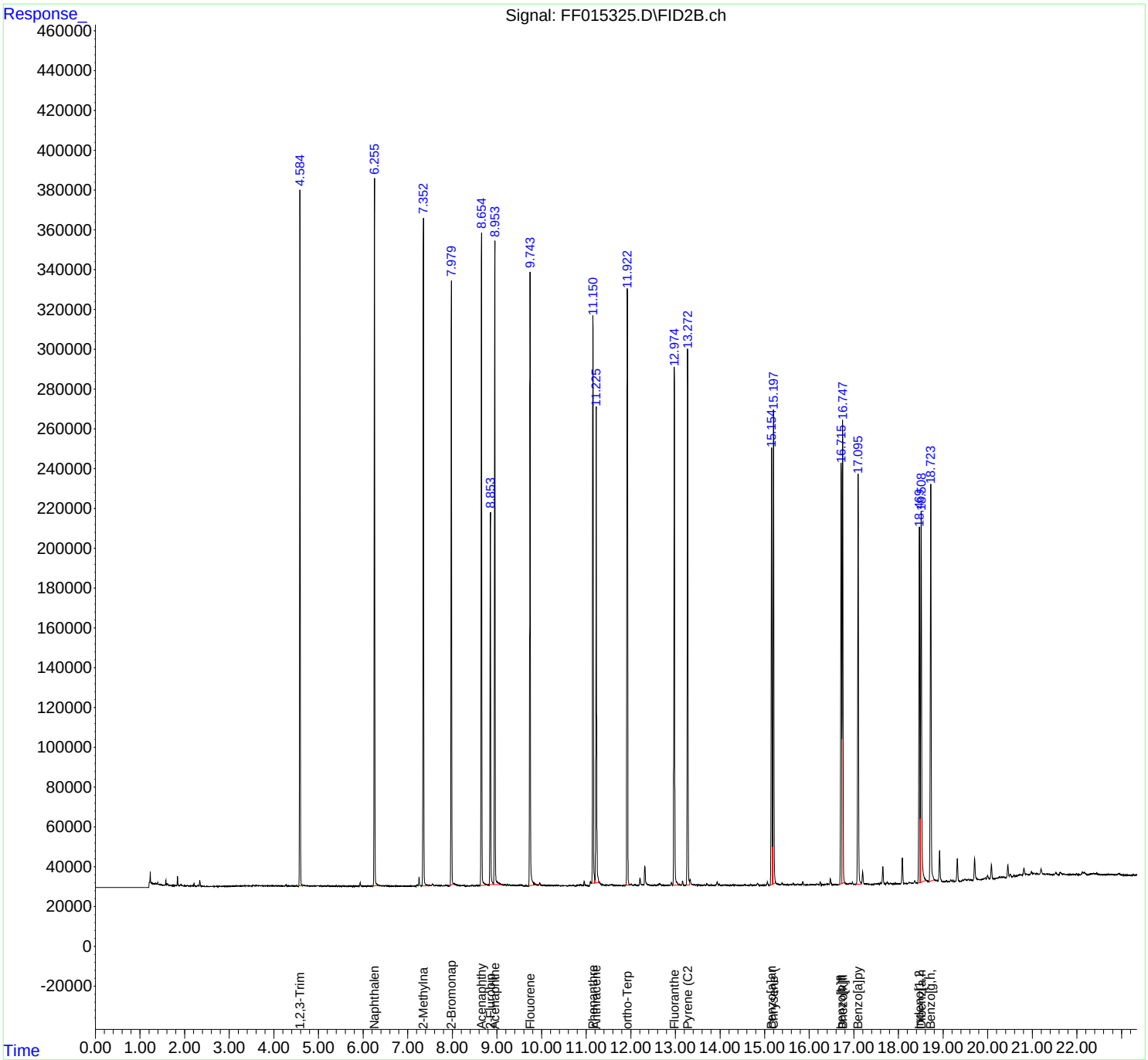
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015325.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 14:00
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:46:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015325.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 14:00
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.585	4.520	4.657	BB	348752	3385204	98.33%	5.431%
2	6.255	6.199	6.355	BB	355380	3442671	100.00%	5.523%
3	7.352	7.310	7.464	BB	335731	3358759	97.56%	5.388%
4	7.979	7.922	8.029	BV	304105	2987640	86.78%	4.793%
5	8.654	8.617	8.800	BB	328159	3330577	96.74%	5.343%
6	8.854	8.830	8.921	BV	186156	1973199	57.32%	3.166%
7	8.953	8.921	9.124	VB	323934	3307689	96.08%	5.307%
8	9.743	9.684	9.895	BB	308871	3307245	96.07%	5.306%
9	11.151	11.120	11.196	BV	285398	3107523	90.26%	4.985%
10	11.225	11.196	11.300	VBA	237931	2668185	77.50%	4.281%
11	11.922	11.840	11.985	BV	300744	3362904	97.68%	5.395%
12	12.974	12.935	13.102	VB	260666	3148072	91.44%	5.050%
13	13.272	13.240	13.313	BV	269703	3079832	89.46%	4.941%
14	15.155	15.114	15.175	BV	217947	2731786	79.35%	4.383%
15	15.198	15.175	15.250	VBA	236683	2874492	83.50%	4.612%
16	16.715	16.660	16.730	BV	211121	2801288	81.37%	4.494%
17	16.748	16.730	16.790	VBA	231783	2818784	81.88%	4.522%
18	17.095	17.030	17.168	BV	205874	2635262	76.55%	4.228%
19	18.468	18.427	18.486	PV	178633	2423404	70.39%	3.888%
20	18.508	18.486	18.620	VBA	186752	2816447	81.81%	4.518%
21	18.724	18.680	18.800	BBA	198994	2771732	80.51%	4.447%
			Sum of corrected areas:			62332697		

Aromatic EPH 011425.M Wed Jan 29 01:30:29 2025

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

Continuing Calibration Report for SequenceID : FF012825AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015340.D**						
Aromatic C10-C12	6826376.000	40.000	4.485	6.355	170659.400	160369.151	-6.417
Aromatic C12-C16	9928652.000	60.000	6.356	9.053	165477.533	160326.403	-3.213
Aromatic C16-C21	12128232.000	80.000	9.054	13.372	151602.900	156685.093	3.244
Aromatic C21-C36	25569173.000	180.000	13.373	18.824	142050.961	145594.493	2.434
Aromatic EPH	54452433.000	360.000	4.485	18.824	151256.758	152156.018	0.591

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	28 Jan 2025 22:59
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015340.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.485	6.355	6826376.000	40.000	ug/ml
Aromatic C12-C16	6.356	9.053	9928652.000	60.000	ug/ml
Aromatic C16-C21	9.054	13.372	12128232.000	80.000	ug/ml
Aromatic C21-C36	13.373	18.824	25569173.000	180.000	ug/ml
Aromatic EPH	4.485	18.824	54452433.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015340.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 22:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:52:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.990	2996506	22.701 ug/ml
Spiked Amount	50.000		Recovery =	45.40%
6) S	2-Flurobiphenyl (SURR)	8.863	1967629	23.311 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	46.62%
11) S	ortho-Terphenyl (SURR)	11.927	3358668	19.511 ug/ml
Spiked Amount	50.000		Recovery =	39.02%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.603	3388166	21.123 ug/ml
2) T	Naphthalene (C11.7)	6.269	3438210	21.444 ug/ml
3) T	2-Methylnaphthalene (...	7.364	3351659	21.077 ug/ml
5) T	Acenaphthylene (C15.06)	8.663	3299598	20.765 ug/ml
7) T	Acenaphthene (C15.5)	8.962	3277395	20.099 ug/ml
8) T	Flouorene (C16.55)	9.751	3303088	20.978 ug/ml
9) T	Phenanthrene (C19.36)	11.156	3086310	19.330 ug/ml
10) T	Anthracene (C19.43)	11.232	2654425	17.979 ug/ml
12) T	Fluoranthene (C21.85)	12.977	3129767	18.918 ug/ml
13) T	Pyrene (C20.8)	13.276	3084409	19.042 ug/ml
14) T	Benzo[a]anthracene (C...	15.158	2741882	18.380 ug/ml
15) T	Chrysene (C27.41)	15.199	2912259	18.749 ug/ml
16) T	benzo[b]fluoranthene ...	16.717	2808811	18.980 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.748	2846599	20.133 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.096	2683425	18.887 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.469	2557026	20.293 ug/ml
20) T	Dibenz[a,h]anthracene...	18.509	3014549	20.375 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.725	2874855	21.297 ug/ml

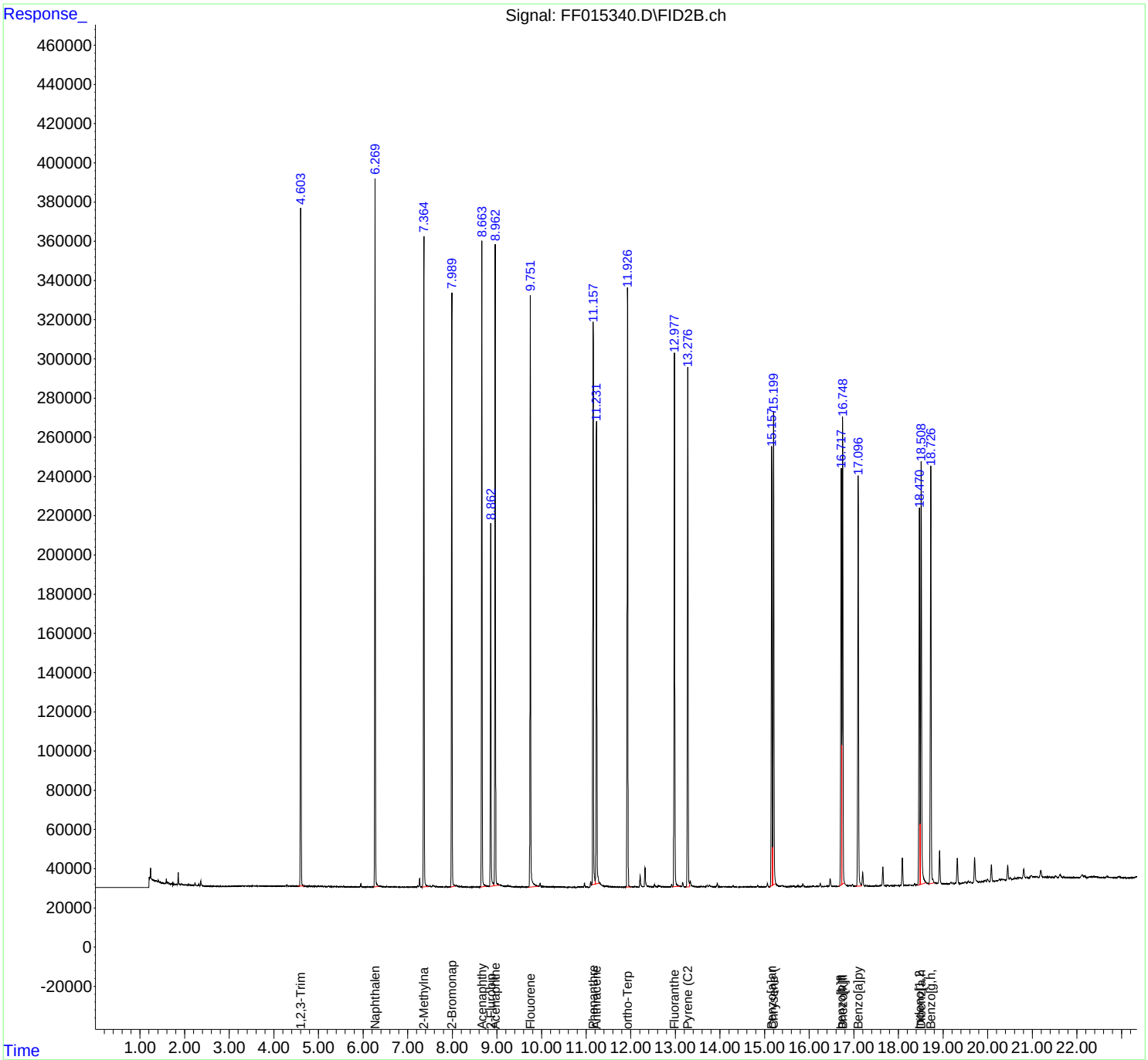
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015340.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 22:59
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 00:52:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015340.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 22:59
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.603	4.536	4.684	BB	345686	3388166	98.54%	5.397%
2	6.270	6.239	6.354	BB	360902	3438210	100.00%	5.477%
3	7.364	7.322	7.472	BB	333016	3351659	97.48%	5.339%
4	7.990	7.947	8.069	BB	301855	2996506	87.15%	4.773%
5	8.663	8.622	8.774	BB	330205	3299598	95.97%	5.256%
6	8.863	8.831	8.931	BV	185305	1967629	57.23%	3.134%
7	8.962	8.931	9.057	VB	327132	3277395	95.32%	5.221%
8	9.751	9.709	9.929	BB	302260	3303088	96.07%	5.262%
9	11.156	11.121	11.204	BV	286033	3086310	89.77%	4.916%
10	11.232	11.204	11.301	VBA	234543	2654425	77.20%	4.228%
11	11.927	11.891	12.001	BB	305436	3358668	97.69%	5.350%
12	12.977	12.939	13.104	PB	272456	3129767	91.03%	4.986%
13	13.276	13.241	13.315	BV	265274	3084409	89.71%	4.913%
14	15.158	15.116	15.178	BV	224323	2741882	79.75%	4.368%
15	15.199	15.178	15.251	VBA	240900	2912259	84.70%	4.639%
16	16.717	16.661	16.731	BV	212126	2808811	81.69%	4.474%
17	16.748	16.731	16.791	VBA	237656	2846599	82.79%	4.535%
18	17.096	17.031	17.171	BV	208444	2683425	78.05%	4.275%
19	18.469	18.428	18.487	PV	191482	2557026	74.37%	4.073%
20	18.509	18.487	18.621	VBA	214853	3014549	87.68%	4.802%
21	18.725	18.681	18.800	BBA	213665	2874855	83.61%	4.580%
			Sum of corrected areas:			62775236		

Aromatic EPH 011425.M Wed Jan 29 02:03:59 2025

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

Continuing Calibration Report for SequenceID : FF012925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015352.D**						
Aromatic C10-C12	7060922.000	40.000	4.500	6.368	176523.050	160369.151	-10.073
Aromatic C12-C16	10213821.000	60.000	6.369	9.062	170230.350	160326.403	-6.177
Aromatic C16-C21	12400069.000	80.000	9.063	13.376	155000.863	156685.093	1.075
Aromatic C21-C36	26284946.000	180.000	13.377	18.826	146027.478	145594.493	-0.297
Aromatic EPH	55959758.000	360.000	4.500	18.826	155443.772	152156.018	-2.161

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	29 Jan 2025 09:16
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015352.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.500	6.368	7060922.000	40.000	ug/ml
Aromatic C12-C16	6.369	9.062	10213821.000	60.000	ug/ml
Aromatic C16-C21	9.063	13.376	12400069.000	80.000	ug/ml
Aromatic C21-C36	13.377	18.826	26284946.000	180.000	ug/ml
Aromatic EPH	4.500	18.826	55959758.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015352.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 09:16
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 30 02:43:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.989	3062013	23.197 ug/ml
Spiked Amount	50.000		Recovery =	46.39%
6) S	2-Flurobiphenyl (SURR)	8.862	1981286	23.473 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	46.95%
11) S	ortho-Terphenyl (SURR)	11.926	3462978	20.117 ug/ml
Spiked Amount	50.000		Recovery =	40.23%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.600	3507963	21.870 ug/ml
2) T	Naphthalene (C11.7)	6.268	3552959	22.160 ug/ml
3) T	2-Methylnaphthalene (...	7.363	3440509	21.636 ug/ml
5) T	Acenaphthylene (C15.06)	8.663	3376474	21.249 ug/ml
7) T	Acenaphthene (C15.5)	8.962	3396838	20.832 ug/ml
8) T	Flouorene (C16.55)	9.751	3357433	21.323 ug/ml
9) T	Phenanthrene (C19.36)	11.157	3165116	19.824 ug/ml
10) T	Anthracene (C19.43)	11.231	2699249	18.282 ug/ml
12) T	Fluoranthene (C21.85)	12.978	3216046	19.440 ug/ml
13) T	Pyrene (C20.8)	13.276	3178271	19.622 ug/ml
14) T	Benzo[a]anthracene (C...	15.157	2799923	18.769 ug/ml
15) T	Chrysene (C27.41)	15.199	2961102	19.063 ug/ml
16) T	benzo[b]fluoranthene ...	16.716	2890160	19.530 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.749	2921592	20.663 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.097	2750683	19.360 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.469	2645192	20.992 ug/ml
20) T	Dibenz[a,h]anthracene...	18.509	3122367	21.104 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.726	2977881	22.060 ug/ml

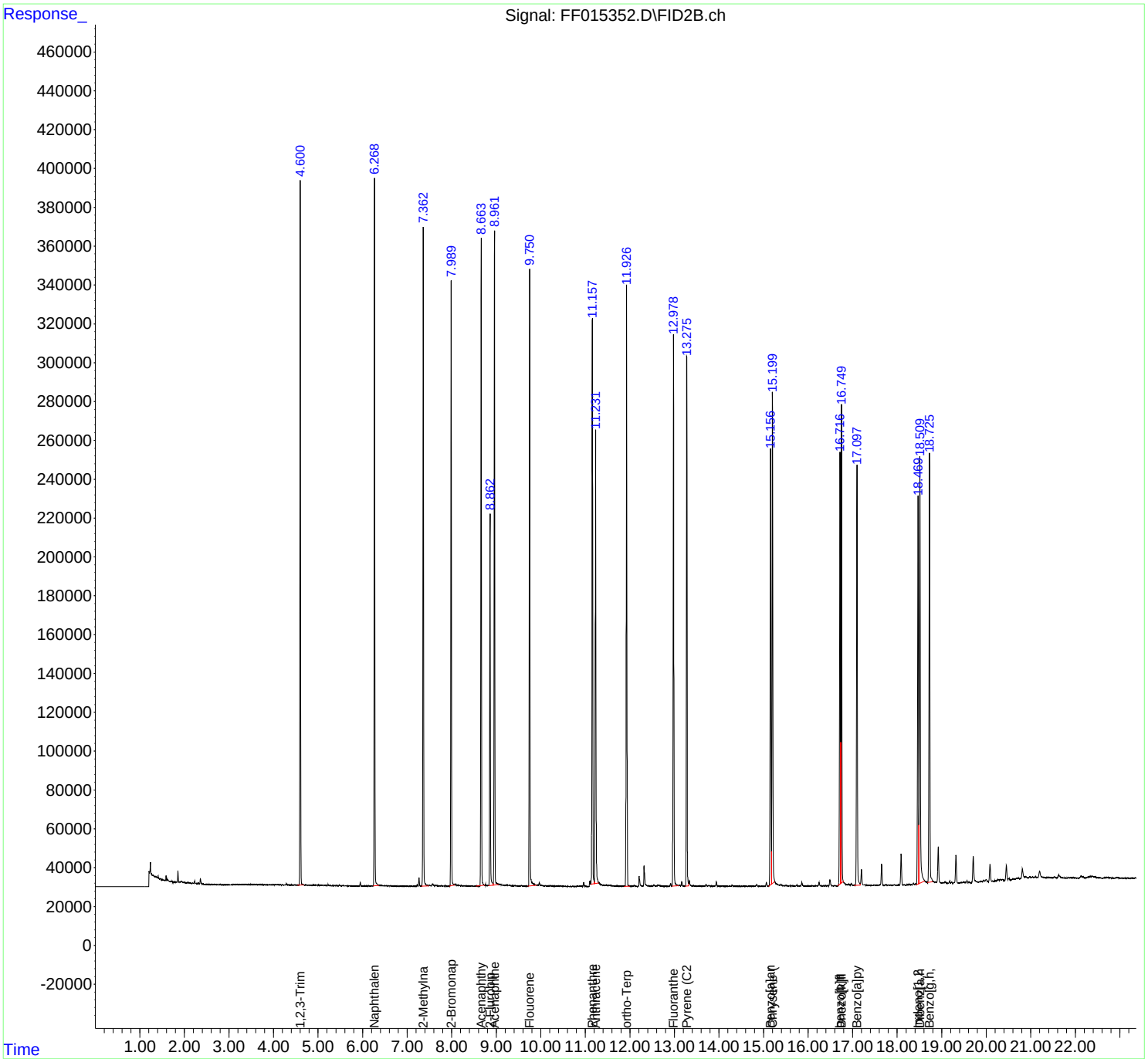
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015352.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 09:16
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 30 02:43:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015352.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 09:16
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.600	4.536	4.681	BB	362739	3507963	98.73%	5.442%
2	6.268	6.236	6.376	BB	363195	3552959	100.00%	5.511%
3	7.363	7.321	7.486	BB	338793	3440509	96.84%	5.337%
4	7.989	7.951	8.071	BB	311491	3062013	86.18%	4.750%
5	8.663	8.539	8.741	BB	332481	3376474	95.03%	5.238%
6	8.862	8.831	8.930	BV	191461	1981286	55.76%	3.073%
7	8.962	8.930	9.056	VB	334563	3396838	95.61%	5.269%
8	9.751	9.707	9.911	BB	317646	3357433	94.50%	5.208%
9	11.157	11.121	11.202	BV	289855	3165116	89.08%	4.910%
10	11.231	11.202	11.301	VBA	233382	2699249	75.97%	4.187%
11	11.926	11.869	12.001	BB	308959	3462978	97.47%	5.372%
12	12.978	12.942	13.097	PB	283325	3216046	90.52%	4.989%
13	13.276	13.241	13.317	BV	273239	3178271	89.45%	4.930%
14	15.157	15.116	15.177	BV	224000	2799923	78.81%	4.343%
15	15.199	15.177	15.251	VBA	252983	2961102	83.34%	4.593%
16	16.716	16.661	16.732	BV	221544	2890160	81.35%	4.483%
17	16.749	16.732	16.791	VBA	245325	2921592	82.23%	4.532%
18	17.097	17.031	17.171	BV	216636	2750683	77.42%	4.267%
19	18.469	18.431	18.487	PV	200066	2645192	74.45%	4.103%
20	18.509	18.487	18.621	VBA	219806	3122367	87.88%	4.843%
21	18.726	18.681	18.800	BBA	221186	2977881	83.81%	4.619%
			Sum of corrected areas:			64466037		

Aromatic EPH 011425.M Thu Jan 30 03:12:07 2025

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

Continuing Calibration Report for SequenceID : FF012925AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015359.D**						
Aromatic C10-C12	6826723.000	40.000	4.500	6.368	170668.075	160369.151	-6.422
Aromatic C12-C16	9825201.000	60.000	6.369	9.062	163753.350	160326.403	-2.137
Aromatic C16-C21	11801724.000	80.000	9.063	13.376	147521.550	156685.093	5.848
Aromatic C21-C36	25508347.000	180.000	13.377	18.826	141713.039	145594.493	2.666
Aromatic EPH	53961995.000	360.000	4.500	18.826	149894.431	152156.018	1.486

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

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	29 Jan 2025 12:39
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015359.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.500	6.368	6826723.000	40.000	ug/ml
Aromatic C12-C16	6.369	9.062	9825201.000	60.000	ug/ml
Aromatic C16-C21	9.063	13.376	11801724.000	80.000	ug/ml
Aromatic C21-C36	13.377	18.826	25508347.000	180.000	ug/ml
Aromatic EPH	4.500	18.826	53961995.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015359.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 12:39
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 30 02:46:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.990	2942074	22.288 ug/ml
Spiked Amount	50.000		Recovery =	44.58%
6) S	2-Flurobiphenyl (SURR)	8.864	1901081	22.522 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	45.04%
11) S	ortho-Terphenyl (SURR)	11.927	3305291	19.201 ug/ml
Spiked Amount	50.000		Recovery =	38.40%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.602	3408168	21.248 ug/ml
2) T	Naphthalene (C11.7)	6.270	3418555	21.321 ug/ml
3) T	2-Methylnaphthalene (...	7.364	3298733	20.744 ug/ml
5) T	Acenaphthylene (C15.06)	8.664	3265547	20.551 ug/ml
7) T	Acenaphthene (C15.5)	8.963	3260921	19.998 ug/ml
8) T	Flouorene (C16.55)	9.752	3187889	20.246 ug/ml
9) T	Phenanthrene (C19.36)	11.156	3021412	18.923 ug/ml
10) T	Anthracene (C19.43)	11.232	2565390	17.376 ug/ml
12) T	Fluoranthene (C21.85)	12.978	3067400	18.542 ug/ml
13) T	Pyrene (C20.8)	13.276	3027033	18.688 ug/ml
14) T	Benzo[a]anthracene (C...	15.157	2691284	18.040 ug/ml
15) T	Chrysene (C27.41)	15.200	2819790	18.154 ug/ml
16) T	benzo[b]fluoranthene ...	16.716	2815696	19.027 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.748	2824178	19.975 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.096	2677221	18.843 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.470	2615186	20.754 ug/ml
20) T	Dibenz[a,h]anthracene...	18.509	3056873	20.661 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.725	2940719	21.784 ug/ml

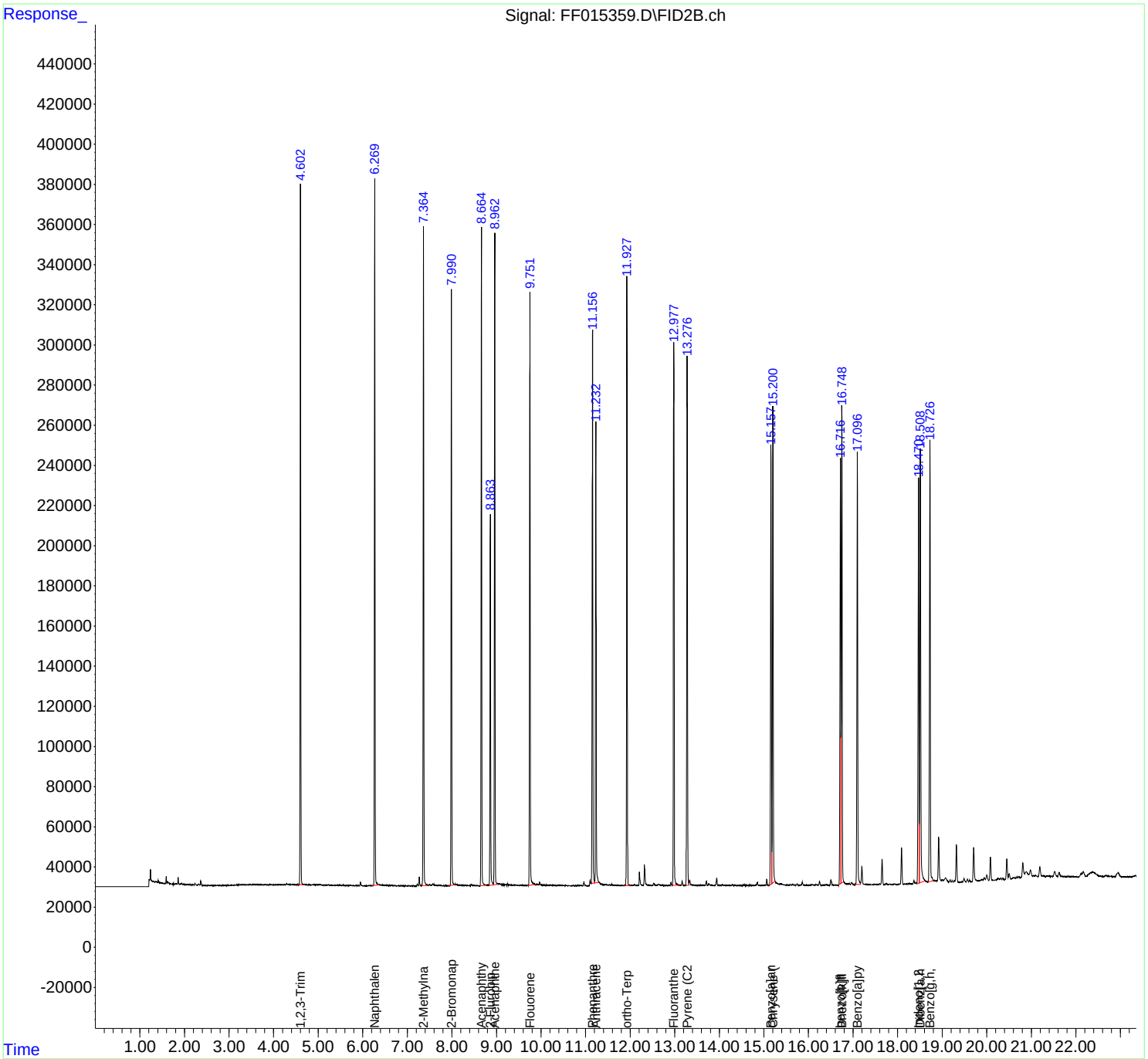
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015359.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 12:39
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 30 02:46:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012925AR\
Data File : FF015359.D
Signal(s) : FID2B.ch
Acq On : 29 Jan 2025 12:39
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.602	4.536	4.707	BB	349059	3408168	99.70%	5.487%
2	6.270	6.199	6.364	BB	351519	3418555	100.00%	5.504%
3	7.364	7.322	7.481	BB	328295	3298733	96.49%	5.311%
4	7.990	7.934	8.074	BB	296327	2942074	86.06%	4.737%
5	8.664	8.629	8.774	BB	328363	3265547	95.52%	5.258%
6	8.864	8.831	8.934	BV	184768	1901081	55.61%	3.061%
7	8.963	8.934	9.049	VB	325017	3260921	95.39%	5.250%
8	9.752	9.687	9.877	BB	295741	3187889	93.25%	5.133%
9	11.156	11.121	11.202	BV	275779	3021412	88.38%	4.865%
10	11.232	11.202	11.301	VBA	230641	2565390	75.04%	4.130%
11	11.927	11.854	12.006	BB	303612	3305291	96.69%	5.322%
12	12.978	12.937	13.097	VB	270741	3067400	89.73%	4.939%
13	13.276	13.241	13.317	BV	263842	3027033	88.55%	4.874%
14	15.157	15.116	15.178	BV	218774	2691284	78.73%	4.333%
15	15.200	15.178	15.251	VBA	237874	2819790	82.48%	4.540%
16	16.716	16.661	16.731	BV	211408	2815696	82.37%	4.533%
17	16.748	16.731	16.791	VBA	236885	2824178	82.61%	4.547%
18	17.096	17.031	17.169	BV	214363	2677221	78.31%	4.310%
19	18.470	18.431	18.487	PV	200147	2615186	76.50%	4.211%
20	18.509	18.487	18.621	VBA	216653	3056873	89.42%	4.922%
21	18.725	18.681	18.800	BBA	220649	2940719	86.02%	4.735%
			Sum of corrected areas:			62110440		

Aromatic EPH 011425.M Thu Jan 30 03:25:47 2025

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

Continuing Calibration Report for SequenceID : FG012825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG015182.D**						
Aliphatic C9-C12	7819920.000	60.000	3.178	6.820	130332.000	132888.697	1.924
Aliphatic C12-C16	5548295.000	40.000	6.821	10.273	138707.375	141209.859	1.772
Aliphatic C16-C21	8448943.000	60.000	10.274	13.656	140815.717	144518.745	2.562
Aliphatic C21-C28	10685002.000	80.000	13.657	17.330	133562.525	136707.720	2.301
Aliphatic C28-C40	12783559.000	120.000	17.331	22.272	106529.658	105590.394	-0.890
Aliphatic EPH	45285719.000	360.000	3.178	22.272	125793.664	127500.849	1.339

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Jan 2025 14:00
Client Sample ID:		Operator:	YP\AJ
Data file:	FG015182.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.178	6.820	7819920.000	60.000	ug/ml
Aliphatic C12-C16	6.821	10.273	5548295.000	40.000	ug/ml
Aliphatic C16-C21	10.274	13.656	8448943.000	60.000	ug/ml
Aliphatic C21-C28	13.657	17.330	10685002.000	80.000	ug/ml
Aliphatic C28-C40	17.331	22.272	12783559.000	120.000	ug/ml
Aliphatic EPH	3.178	22.272	45285719.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015182.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 14:00
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 02:33:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.940	3060013	19.572 ug/ml
Spiked Amount	50.000		Recovery =	39.14%
12)	S 1-chlorooctadecane (S...	13.386	2355709	19.347 ug/ml
Spiked Amount	50.000		Recovery =	38.69%
	Target Compounds			
1)	T n-Nonane (C9)	3.278	2539183	19.557 ug/ml
2)	T n-Decane (C10)	4.538	2604898	19.602 ug/ml
3)	T A~Naphthalene (C11.7)	6.249	2860044	19.585 ug/ml
4)	T n-Dodecane (C12)	6.720	2675839	19.684 ug/ml
5)	T A~2-methylnaphthalene...	7.352	2799502	19.611 ug/ml
6)	T n-Tetradecane (C14)	8.558	2706493	19.680 ug/ml
7)	T n-Hexadecane (C16)	10.173	2841802	19.613 ug/ml
8)	T n-Octadecane (C18)	11.625	2900742	19.517 ug/ml
10)	T n-Eicosane (C20)	12.941	2794241	19.467 ug/ml
11)	T n-Heneicosane (C21)	13.556	2753960	19.477 ug/ml
13)	T n-Docosane (C22)	14.144	2732211	19.432 ug/ml
14)	T n-Tetracosane (C24)	15.253	2715727	19.512 ug/ml
15)	T n-Hexacosane (C26)	16.278	2638012	19.476 ug/ml
16)	T n-Octacosane (C28)	17.230	2599052	19.750 ug/ml
17)	T n-Tricontane (C30)	18.121	2690212	20.279 ug/ml
18)	T n-Dotriacontane (C32)	18.956	2588632	20.525 ug/ml
19)	T n-Tetratriacontane (C34)	19.741	2233353	20.512 ug/ml
20)	T n-Hexatriacontane (C36)	20.484	1894439	20.291 ug/ml
21)	T n-Octatriacontane (C38)	21.233	1751630	19.961 ug/ml
22)	T n-Tetracontane (C40)	22.172	1625293	19.175 ug/ml

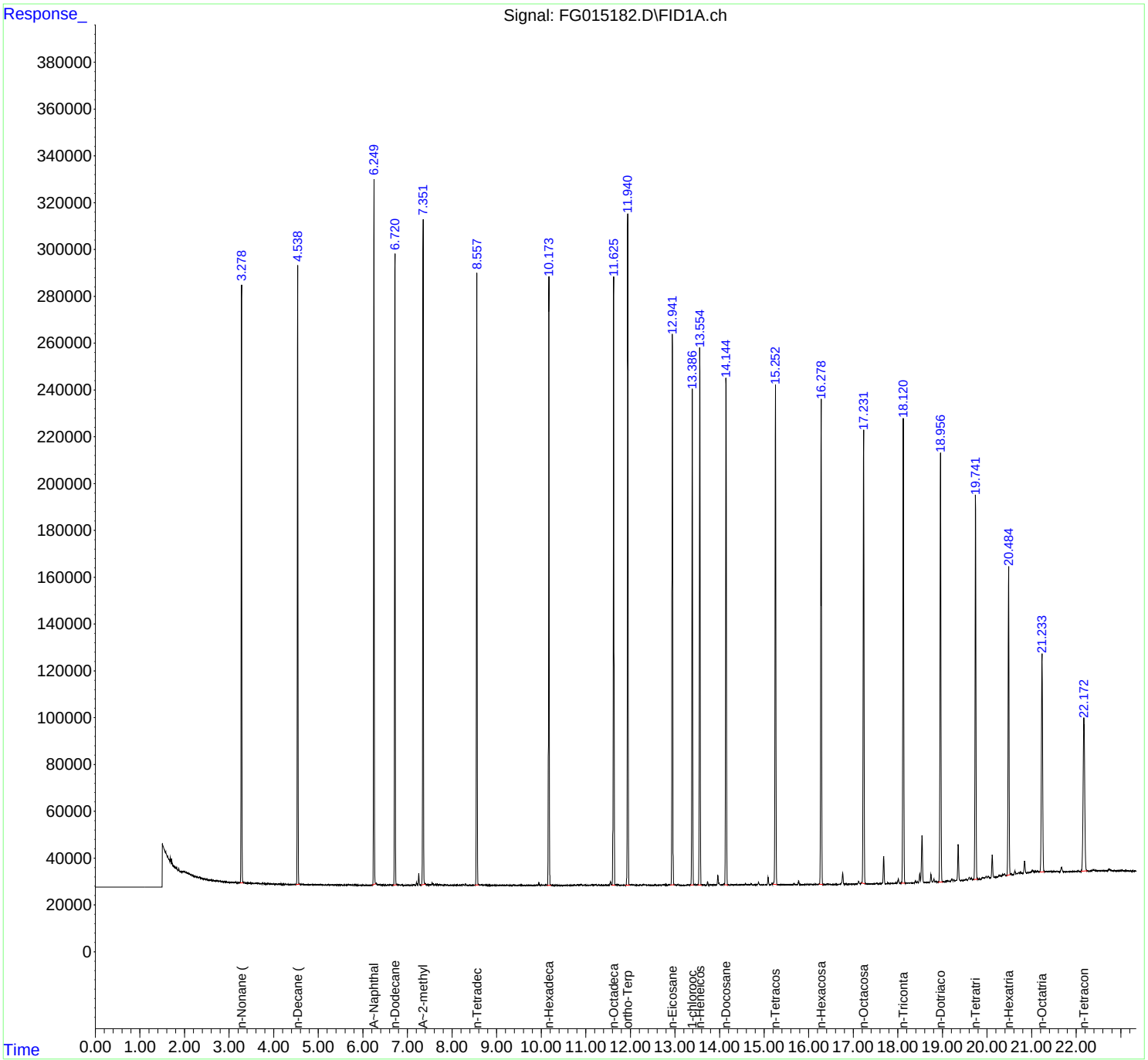
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015182.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 14:00
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Jan 29 02:33:40 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015182.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 14:00
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.278	3.240	3.318	BB	255172	2539183	82.98%	4.505%
2	4.538	4.497	4.582	BB	264387	2604898	85.13%	4.622%
3	6.249	6.209	6.288	BB	301122	2860044	93.47%	5.075%
4	6.720	6.675	6.761	BB	269810	2675839	87.45%	4.748%
5	7.352	7.305	7.401	BB	284177	2799502	91.49%	4.967%
6	8.558	8.513	8.599	BB	260877	2706493	88.45%	4.802%
7	10.173	10.130	10.218	BB	257933	2841802	92.87%	5.042%
8	11.625	11.578	11.660	BB	258349	2900742	94.80%	5.147%
9	11.940	11.893	11.987	BB	283486	3060013	100.00%	5.429%
10	12.941	12.893	12.988	BB	235367	2794241	91.31%	4.958%
11	13.386	13.342	13.422	BB	211163	2355709	76.98%	4.180%
12	13.556	13.507	13.603	BB	225929	2753960	90.00%	4.886%
13	14.144	14.107	14.190	BB	215729	2732211	89.29%	4.848%
14	15.253	15.193	15.292	BB	212344	2715727	88.75%	4.818%
15	16.278	16.230	16.327	BB	205943	2638012	86.21%	4.681%
16	17.230	17.183	17.266	BB	192772	2599052	84.94%	4.611%
17	18.121	18.065	18.160	BB	198592	2690212	87.92%	4.773%
18	18.956	18.901	19.012	BB	181115	2588632	84.60%	4.593%
19	19.741	19.700	19.794	BB	163819	2233353	72.99%	3.963%
20	20.484	20.432	20.523	BB	131481	1894439	61.91%	3.361%
21	21.233	21.180	21.288	BB	93029	1751630	57.24%	3.108%
22	22.172	22.102	22.253	BB	65564	1625293	53.11%	2.884%
			Sum of corrected areas:			56360985		

Aliphatic EPH 011425.M Wed Jan 29 03:36:30 2025

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

Continuing Calibration Report for SequenceID : FG012825AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FG015197.D**						
Aliphatic C9-C12	7701724.000	60.000	3.178	6.820	128362.067	132888.697	3.406
Aliphatic C12-C16	5462110.000	40.000	6.821	10.273	136552.750	141209.859	3.298
Aliphatic C16-C21	8325655.000	60.000	10.274	13.656	138760.917	144518.745	3.984
Aliphatic C21-C28	10490876.000	80.000	13.657	17.330	131135.950	136707.720	4.076
Aliphatic C28-C40	12721706.000	120.000	17.331	22.272	106014.217	105590.394	-0.401
Aliphatic EPH	44702071.000	360.000	3.178	22.272	124172.419	127500.849	2.611

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

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	28 Jan 2025 22:59
Client Sample ID:		Operator:	YP\AJ
Data file:	FG015197.D	Misc:	
Instrument:	FID_G	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.178	6.820	7701724.000	60.000	ug/ml
Aliphatic C12-C16	6.821	10.273	5462110.000	40.000	ug/ml
Aliphatic C16-C21	10.274	13.656	8325655.000	60.000	ug/ml
Aliphatic C21-C28	13.657	17.330	10490876.000	80.000	ug/ml
Aliphatic C28-C40	17.331	22.272	12721706.000	120.000	ug/ml
Aliphatic EPH	3.178	22.272	44702071.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015197.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 22:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Integration File: autoint1.e
Quant Time: Jan 29 02:39:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.937	3023418	19.338 ug/ml
Spiked Amount	50.000		Recovery =	38.68%
12) S	1-chlorooctadecane (S...	13.382	2328568	19.124 ug/ml
Spiked Amount	50.000		Recovery =	38.25%
	Target Compounds			
1) T	n-Nonane (C9)	3.279	2502594	19.275 ug/ml
2) T	n-Decane (C10)	4.540	2566103	19.310 ug/ml
3) T	A~Naphthalene (C11.7)	6.250	2817055	19.290 ug/ml
4) T	n-Dodecane (C12)	6.720	2633027	19.369 ug/ml
5) T	A~2-methylnaphthalene...	7.351	2760963	19.341 ug/ml
6) T	n-Tetradecane (C14)	8.556	2660490	19.346 ug/ml
7) T	n-Hexadecane (C16)	10.171	2801620	19.335 ug/ml
8) T	n-Octadecane (C18)	11.622	2858728	19.234 ug/ml
10) T	n-Eicosane (C20)	12.936	2756231	19.202 ug/ml
11) T	n-Heneicosane (C21)	13.551	2710696	19.171 ug/ml
13) T	n-Docosane (C22)	14.139	2691283	19.141 ug/mlm
14) T	n-Tetracosane (C24)	15.247	2654596	19.073 ug/ml
15) T	n-Hexacosane (C26)	16.273	2589560	19.118 ug/ml
16) T	n-Octacosane (C28)	17.224	2555437	19.419 ug/ml
17) T	n-Tricontane (C30)	18.115	2655566	20.018 ug/ml
18) T	n-Dotriacontane (C32)	18.949	2560773	20.304 ug/ml
19) T	n-Tetratriacontane (C34)	19.735	2204775	20.249 ug/ml
20) T	n-Hexatriacontane (C36)	20.477	1890027	20.244 ug/ml
21) T	n-Octatriacontane (C38)	21.226	1752555	19.971 ug/ml
22) T	n-Tetracontane (C40)	22.164	1658010	19.561 ug/ml

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015197.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 22:59
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

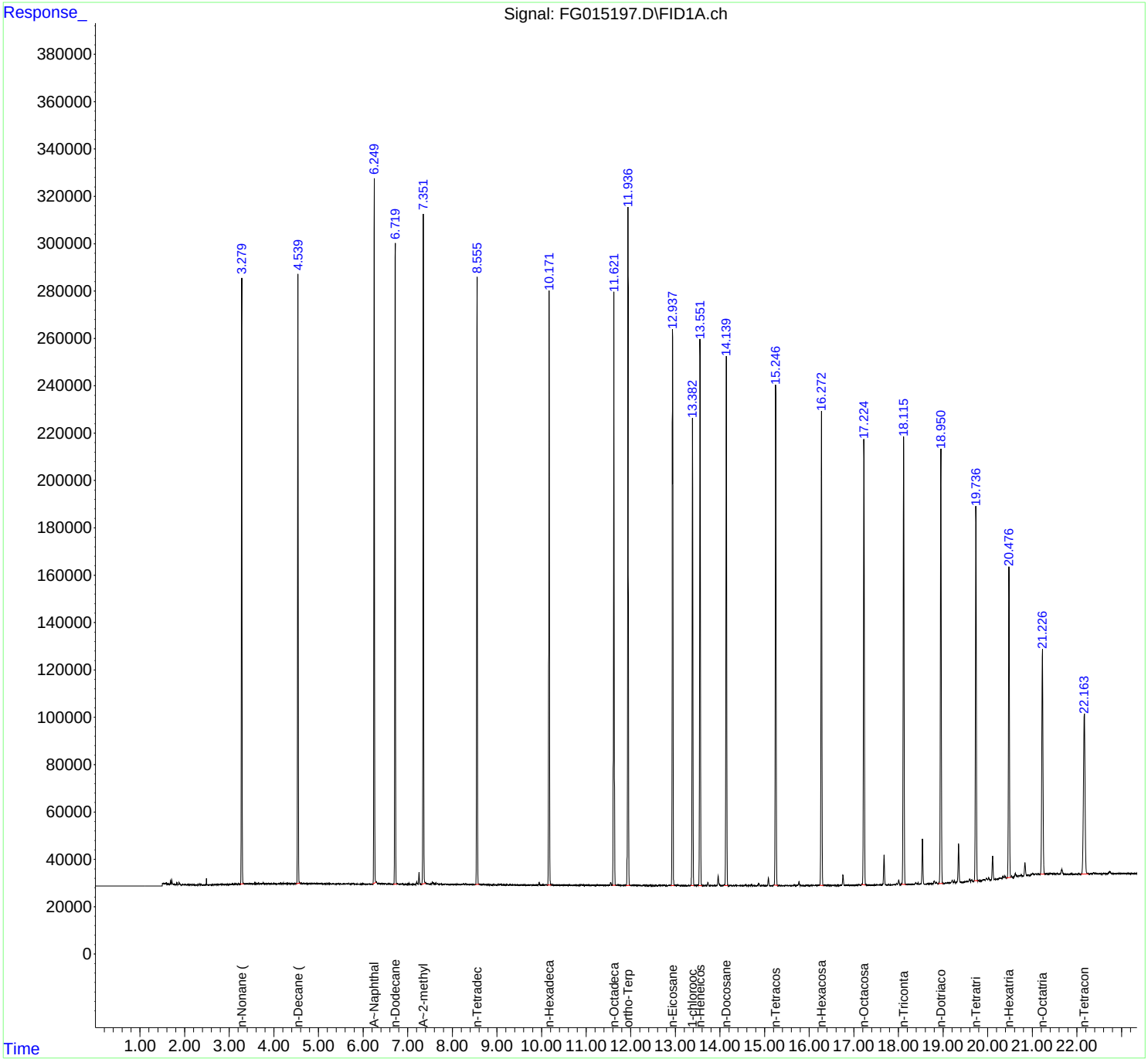
Integration File: autoint1.e
Quant Time: Jan 29 02:39:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_G
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025



rteres

Instrument :
FID_G
LabSampleId :
20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG01282
Data File : FG015197.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 22:59
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.279	3.240	3.325	BB	255694	2502594	82.77%	4.498%
2	4.540	4.500	4.585	BB	257004	2566103	84.87%	4.612%
3	6.250	6.211	6.290	BB	297721	2817055	93.17%	5.063%
4	6.720	6.679	6.761	BB	270650	2633027	87.09%	4.732%
5	7.351	7.303	7.403	BB	282526	2760963	91.32%	4.962%
6	8.556	8.511	8.601	BB	256318	2660490	88.00%	4.782%
7	10.171	10.127	10.219	BB	250388	2801620	92.66%	5.035%
8	11.622	11.585	11.665	BB	249236	2858728	94.55%	5.138%
9	11.937	11.900	11.984	BB	286544	3023418	100.00%	5.434%
10	12.936	12.897	12.980	BB	234014	2756231	91.16%	4.954%
11	13.382	13.342	13.418	BB	197560	2328568	77.02%	4.185%
12	13.551	13.515	13.600	BB	229720	2710696	89.66%	4.872%
13	14.139	14.071	14.185	BB	223371	2697493	89.22%	4.848%
14	15.247	15.211	15.298	BB	208568	2654596	87.80%	4.771%
15	16.273	16.233	16.320	BB	200251	2589560	85.65%	4.654%
16	17.224	17.175	17.264	BB	186913	2555437	84.52%	4.593%
17	18.115	18.064	18.169	BB	189111	2655566	87.83%	4.773%
18	18.949	18.893	19.000	BB	183594	2560773	84.70%	4.603%
19	19.735	19.700	19.790	BB	157597	2204775	72.92%	3.963%
20	20.477	20.425	20.519	BB	129744	1890027	62.51%	3.397%
21	21.226	21.180	21.280	BB	94733	1752555	57.97%	3.150%
22	22.164	22.087	22.259	BB	67473	1658010	54.84%	2.980%
			Sum of corrected areas:			55638283		

Aliphatic EPH 011425.M Wed Jan 29 03:42:32 2025

QC SAMPLE DATA

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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166218BL		SDG No.:	Q1194	
Lab Sample ID:	PB166218BL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015326.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.3		40 - 140	111%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.9		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.2		40 - 140	82%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166218BL	Acq On:	28 Jan 2025 15:52
Client Sample ID:	PB166218BL	Operator:	YP\AJ
Data file:	FF015326.D	Misc:	
Instrument:	FID_F	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	0	0	200	ug/ml
Aromatic C12-C16	6.356	9.053	0	0	300	ug/ml
Aromatic C16-C21	9.054	13.372	0	0	500	ug/ml
Aromatic C21-C36	13.373	18.824	0	0	800	ug/ml
Aromatic EPH	4.485	18.824	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.979	7.979	7299905	55.3		ug/ml
2-Flurobiphenyl (SURR)	8.852	8.852	4549221	53.9		ug/ml
ortho-Terphenyl (SURR)	11.923	11.923	7094985	41.22		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015326.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:52
Operator : YP\AJ
Sample : PB166218BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 29 00:46:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
PB166218BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.979	7299905	55.302 ug/ml
Spiked Amount 50.000		Recovery = 110.60%	
6) S 2-Flurobiphenyl (SURR)	8.852	4549221	53.895 ug/mlm
Spiked Amount 50.000 Range 0 - 131		Recovery = 107.79%	
11) S ortho-Terphenyl (SURR)	11.923	7094985	41.216 ug/ml
Spiked Amount 50.000		Recovery = 82.43%	
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015326.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:52
Operator : YP\AJ
Sample : PB166218BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

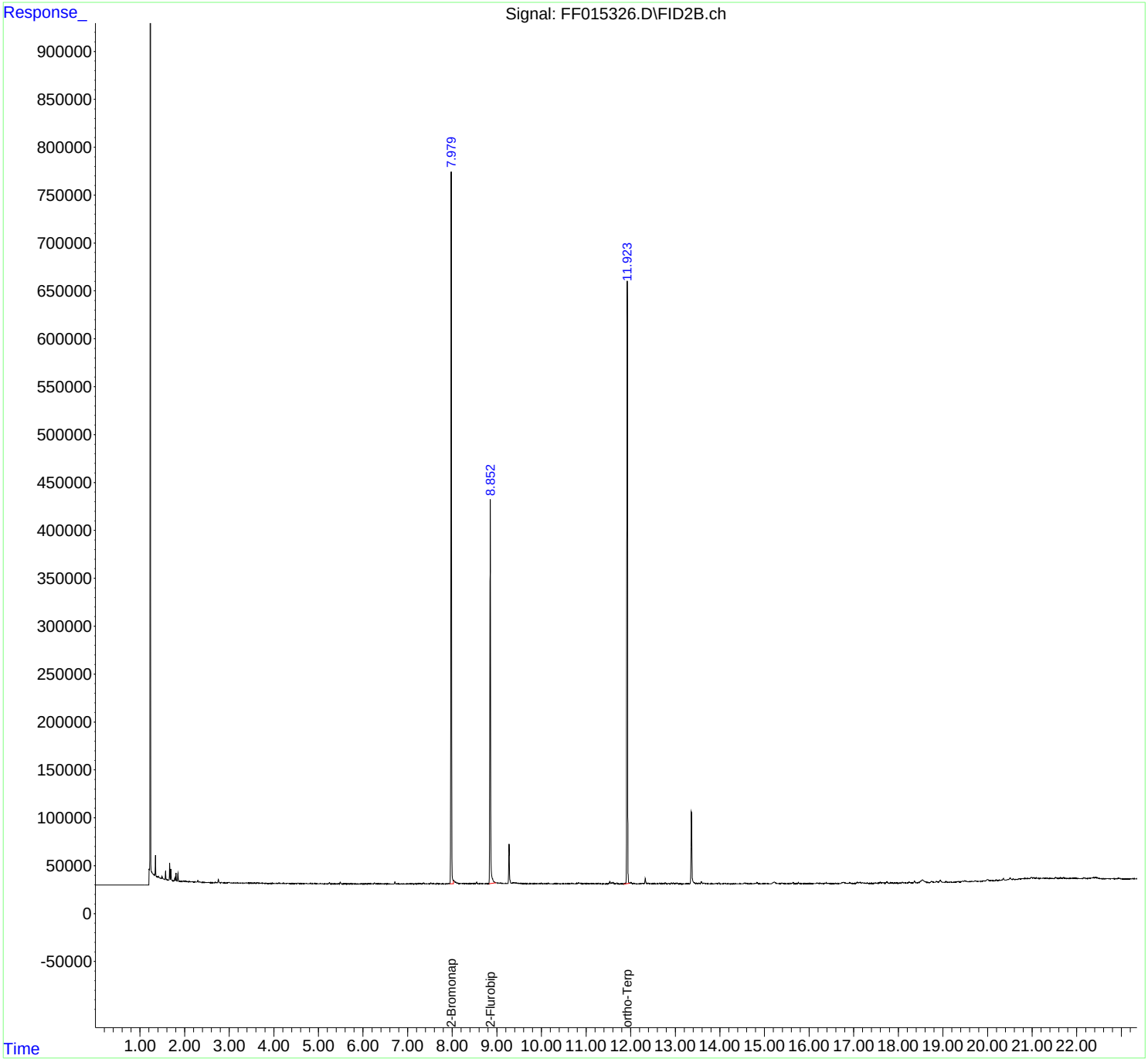
Instrument :
FID_F
ClientSampleId :
PB166218BL

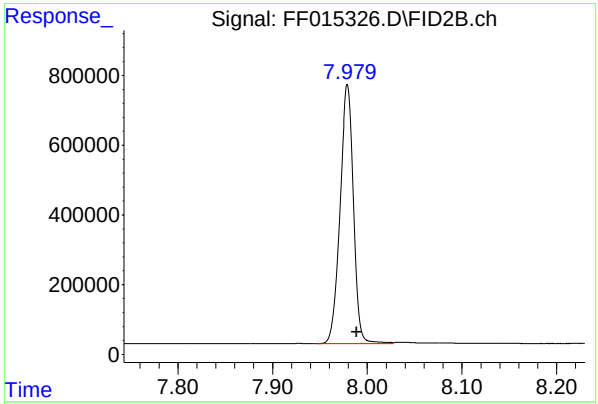
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Integration File: autoint1.e
Quant Time: Jan 29 00:46:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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





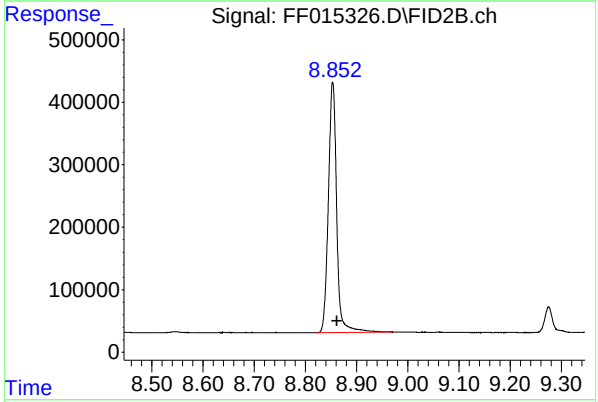
#4 2-Bromonaphthalene (SURR)

R.T.: 7.979 min
Delta R.T.: -0.010 min
Response: 7299905
Conc: 55.30 ug/ml

Instrument :
FID_F
ClientSampleId :
PB166218BL

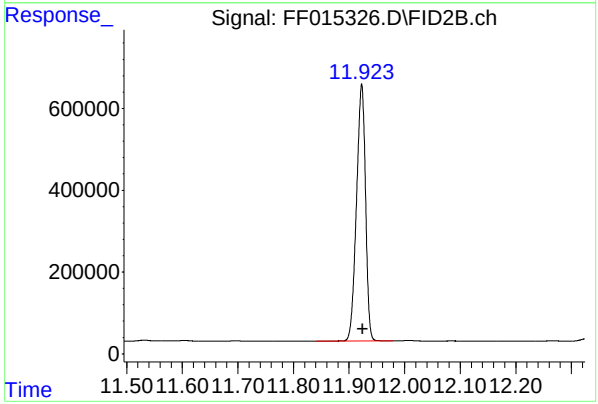
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025



#6 2-Flurobiphenyl (SURR)

R.T.: 8.852 min
Delta R.T.: -0.009 min
Response: 4549221
Conc: 53.90 ug/ml m



#11 ortho-Terphenyl (SURR)

R.T.: 11.923 min
Delta R.T.: -0.002 min
Response: 7094985
Conc: 41.22 ug/ml

Instrument :
FID_F
ClientSampleId :
PB166218BL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01282
Data File : FF015326.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:52
Sample : PB166218BL
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.979	7.946	8.027	PV	744026	7299905	100.00%	38.946%
2	8.853	8.831	9.024	BB	397372	4348903	59.57%	23.202%
3	11.923	11.841	11.979	BV	629337	7094985	97.19%	37.852%

Sum of corrected areas: 18743793

Aromatic EPH 011425.M Wed Jan 29 03:28:33 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BL	SDG No.:	Q1194
Lab Sample ID:	PB166218BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 15:52	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FG015183.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FG015183.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FG015183.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FG015183.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FG015183.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FF015326.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FF015326.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FF015326.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FF015326.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	3.60	U		3.60	6.01	mg/kg	
Total EPH	Total EPH	7.12	U		7.12	12.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BL	SDG No.:	Q1194
Lab Sample ID:	PB166218BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015183.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.38	U	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.24	U	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.30	U	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.80	U	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		1.80	U	1.80	2.00	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.9		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166218BL	Acq On:	28 Jan 2025 15:52
Client Sample ID:	PB166218BL	Operator:	YP\AJ
Data file:	FG015183.D	Misc:	
Instrument:	FID_G	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	0	0	300	ug/ml
Aliphatic C12-C16	6.821	10.273	0	0	200	ug/ml
Aliphatic C16-C21	10.274	13.656	0	0	300	ug/ml
Aliphatic C21-C28	13.657	17.330	0	0	400	ug/ml
Aliphatic C28-C40	17.331	22.272	0	0	600	ug/ml
Aliphatic EPH	3.178	22.272	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.387	13.387	4247483	34.88		ug/ml
Aliphatic C9-C28	3.178	17.330	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015183.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:52
Operator : YP\AJ
Sample : PB166218BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166218BL

Integration File: autoint1.e
Quant Time: Jan 29 02:34:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.387	4247483	34.883 ug/ml
Spiked Amount 50.000		Recovery = 69.77%	
Target Compounds			

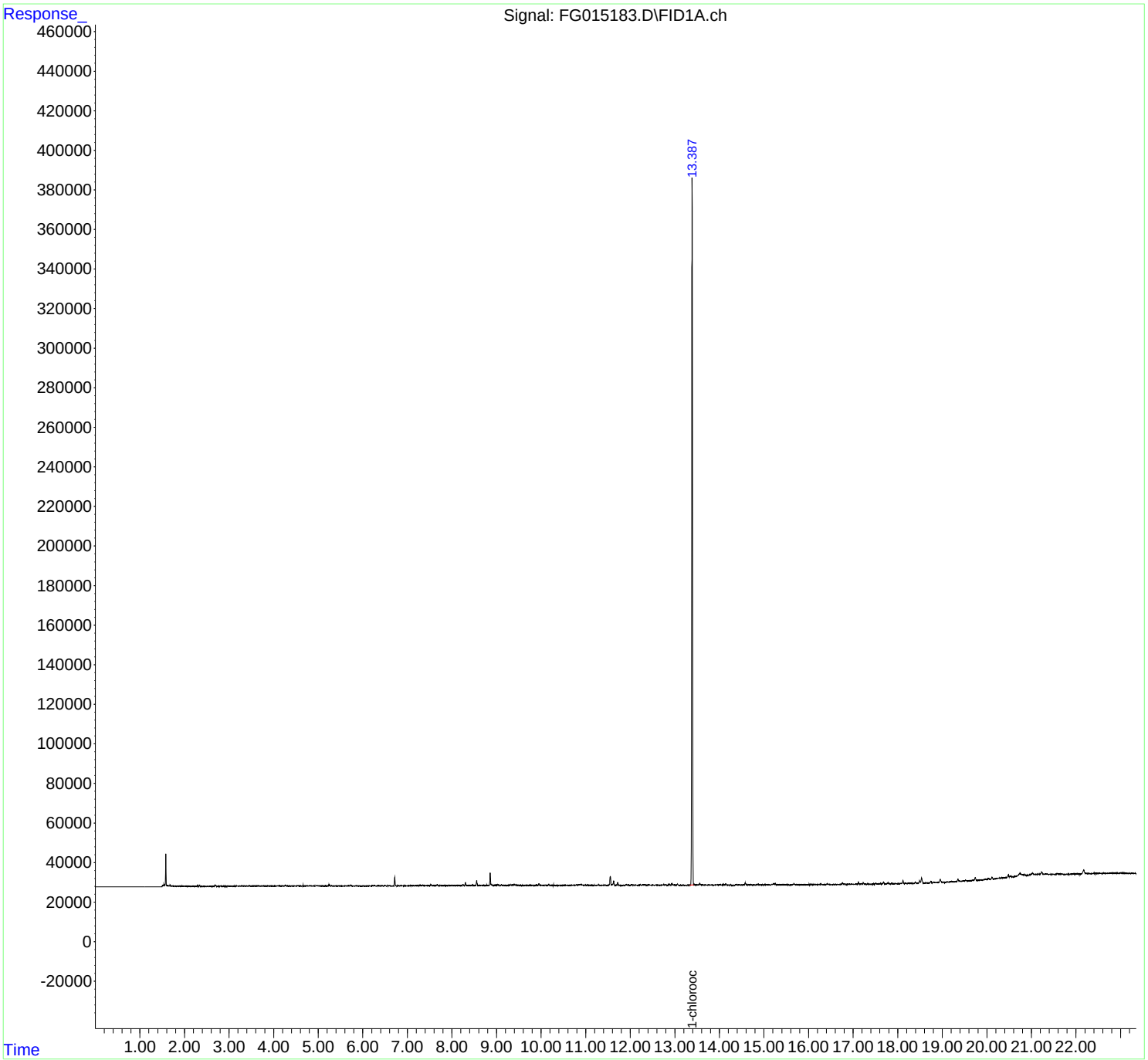
(f)=RT Delta > 1/2 Window (m)=manual int.

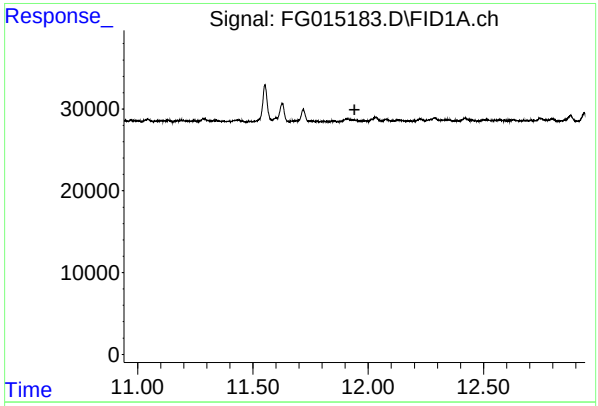
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015183.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:52
Operator : YP\AJ
Sample : PB166218BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166218BL

Integration File: autoint1.e
Quant Time: Jan 29 02:34:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

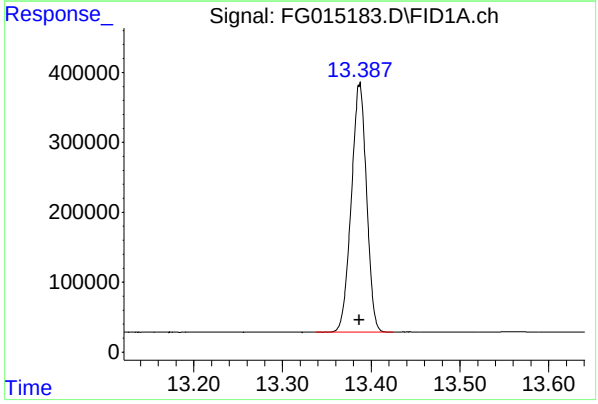




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.940 min
Response: 0
Conc: N.D.

Instrument :
FID_G
ClientSampleId :
PB166218BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.387 min
Delta R.T.: 0.000 min
Response: 4247483
Conc: 34.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015183.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:52
Sample : PB166218BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.387	13.338	13.425	BB	353703	4247483	100.00%	100.000%

Sum of corrected areas: 4247483

Aliphatic EPH 011425.M Wed Jan 29 03:37:15 2025

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BL	SDG No.:	Q1194
Lab Sample ID:	PB166219BL	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
01/28/25 08:31	01/28/25 15:42	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068133.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068133.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068133.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068133.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068133.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048967.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048967.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048967.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048967.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BL	SDG No.:	Q1194
Lab Sample ID:	PB166219BL	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
01/28/25 08:31	01/28/25 15:42	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068133.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068133.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068133.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068133.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068133.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048967.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048967.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048967.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048967.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BL	SDG No.:	Q1194
Lab Sample ID:	PB166219BL	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
01/28/25 08:31	01/28/25 15:42	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	1	5.76	30.0	ug/l	FC068133.D
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	1	3.61	20.0	ug/l	FC068133.D
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	1	5.14	30.0	ug/l	FC068133.D
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	1	8.97	40.0	ug/l	FC068133.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	1	17.0	60.0	ug/l	FC068133.D
Aromatic C10-C12	Aromatic C10-C12	3.32	U	1	3.32	20.0	ug/l	FD048967.D
Aromatic C12-C16	Aromatic C12-C16	3.69	U	1	3.69	30.0	ug/l	FD048967.D
Aromatic C16-C21	Aromatic C16-C21	12.7	U	1	12.7	50.0	ug/l	FD048967.D
Aromatic C21-C36	Aromatic C21-C36	25.2	U	1	25.2	80.0	ug/l	FD048967.D
Total AliphaticEPH	Total AliphaticEPH	40.5	U		40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	44.9	U		44.9	180	ug/l	
Total EPH	Total EPH	85.4	U		85.4	360	ug/l	

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166219BL		SDG No.:	Q1194	
Lab Sample ID:	PB166219BL		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
FC068133.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.76	U	5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	3.61	U	3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	5.14	U	5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	8.97	U	8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	17.0	U	17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.4		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166219BL	Acq On:	28 Jan 2025 15:42
Client Sample ID:	PB166219BL	Operator:	YP/AJ
Data file:	FC068133.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.129	6.397	0	0	300	ug/ml
Aliphatic C12-C16	6.398	9.782	0	0	200	ug/ml
Aliphatic C16-C21	9.783	13.137	0	0	300	ug/ml
Aliphatic C21-C28	13.138	16.791	0	0	400	ug/ml
Aliphatic C28-C40	16.792	21.605	0	0	600	ug/ml
Aliphatic EPH	3.129	21.605	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.869	12.869	4180609	36.35		ug/ml
Aliphatic C9-C28	3.129	16.791	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068133.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:42
Operator : YP/AJ
Sample : PB166219BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166219BL

Integration File: autoint1.e
Quant Time: Jan 29 00:44:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.869	4180609	36.352 ug/ml
Spiked Amount 50.000		Recovery = 72.70%	
Target Compounds			

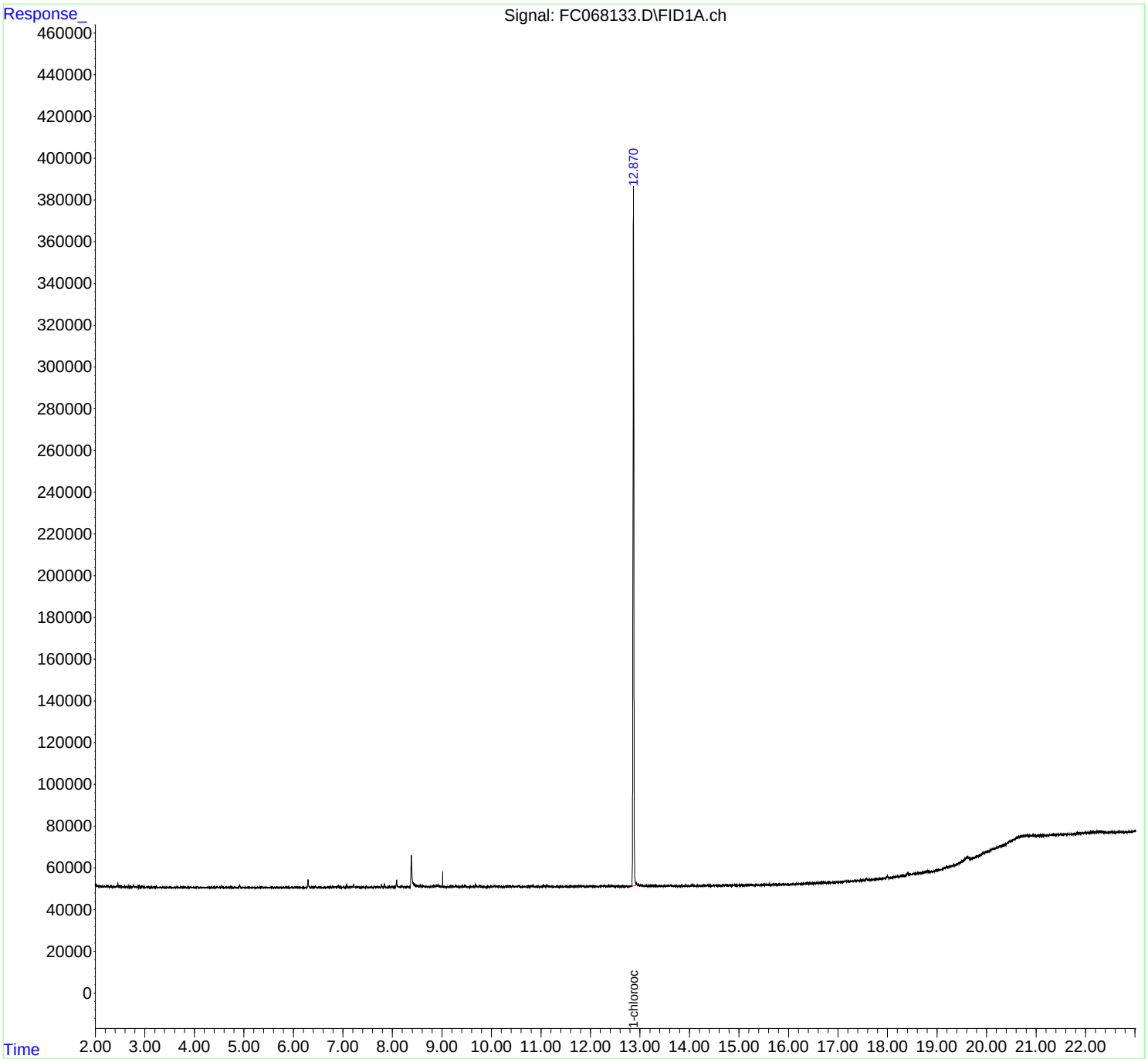
(f)=RT Delta > 1/2 Window (m)=manual int.

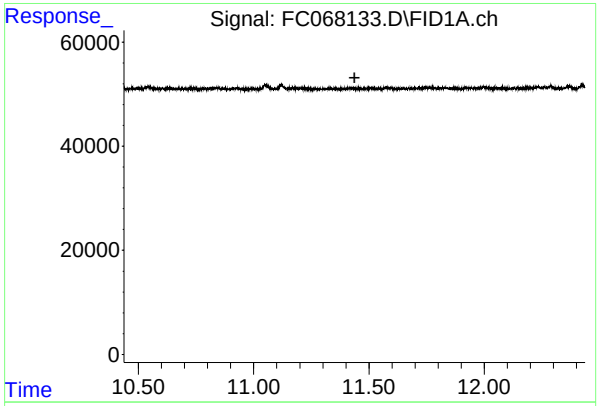
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068133.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:42
Operator : YP/AJ
Sample : PB166219BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166219BL

Integration File: autoint1.e
Quant Time: Jan 29 00:44:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

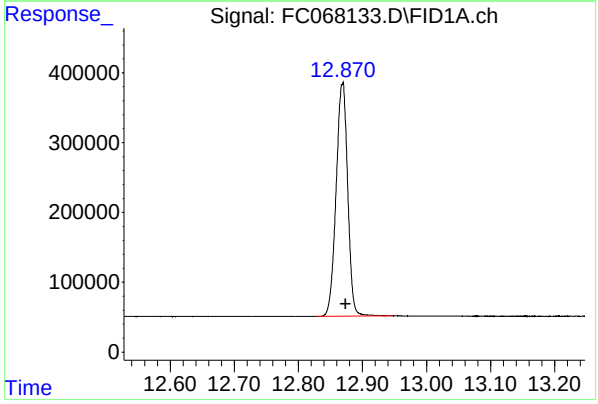




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.437 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB166219BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.869 min
Delta R.T.: -0.005 min
Response: 4180609
Conc: 36.35 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068133.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 15:42
Sample : PB166219BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.869	12.828	12.948	BB	333310	4180609	100.00%	100.000%

Sum of corrected areas: 4180609

Aliphatic EPH 012425.M Wed Jan 29 02:06:43 2025

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166219BL		SDG No.:	Q1194	
Lab Sample ID:	PB166219BL		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
FD048967.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.32	U	3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	3.69	U	3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	12.7	U	12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	25.2	U	25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.4		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.8		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.1		40 - 140	90%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166219BL	Acq On:	28 Jan 2025 15:42
Client Sample ID:	PB166219BL	Operator:	YP/AJ
Data file:	FD048967.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.794	0	0	200	ug/ml
Aromatic C12-C16	5.795	8.400	0	0	300	ug/ml
Aromatic C16-C21	8.401	12.666	0	0	500	ug/ml
Aromatic C21-C36	12.667	18.077	0	0	800	ug/ml
Aromatic EPH	4.075	18.077	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.357	7.357	7600058	53.4		ug/ml
2-Flurobiphenyl (SURR)	8.208	8.208	4575671	53.78		ug/ml
ortho-Terphenyl (SURR)	11.243	11.243	7420730	45.12		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048967.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:42
Operator : YP/AJ
Sample : PB166219BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166219BL

Integration File: autoint1.e
Quant Time: Jan 29 02:11:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.357	7600058	53.400 ug/ml
Spiked Amount 50.000		Recovery = 106.80%	
6) S 2-Flurobiphenyl (SURR)	8.208	4575671	53.776 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 107.55%	
11) S ortho-Terphenyl (SURR)	11.243	7420730	45.124 ug/ml
Spiked Amount 50.000		Recovery = 90.25%	
Target Compounds			

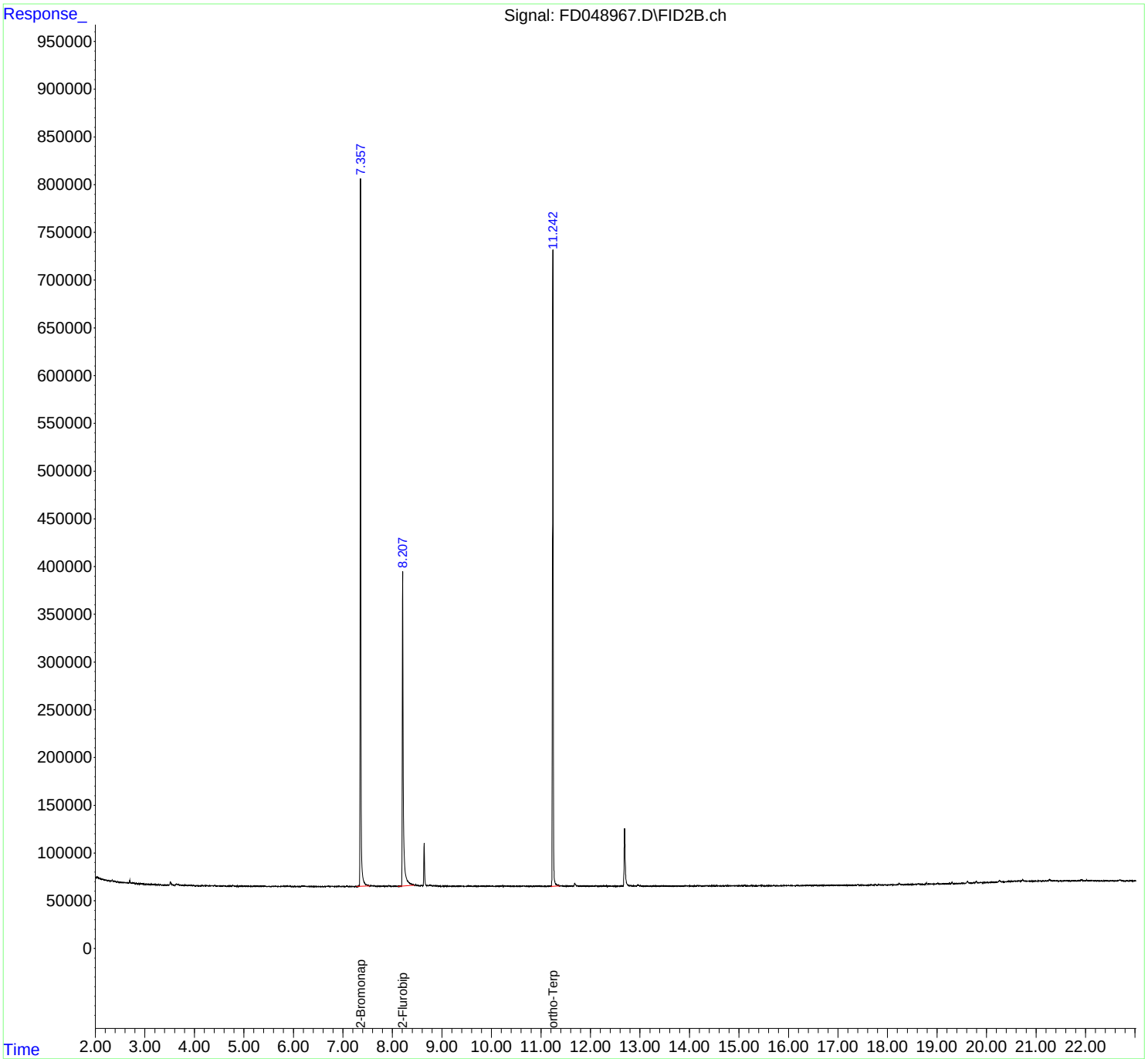
(f)=RT Delta > 1/2 Window (m)=manual int.

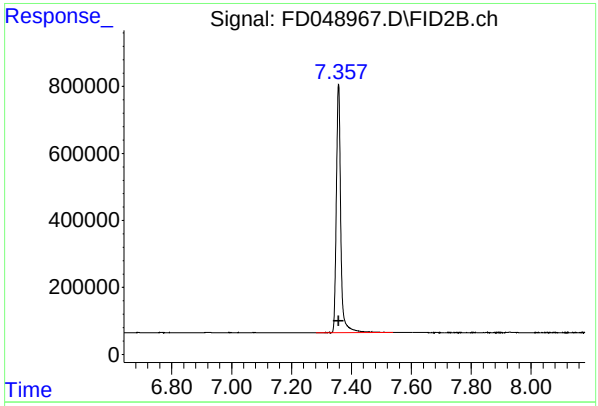
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048967.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:42
Operator : YP/AJ
Sample : PB166219BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166219BL

Integration File: autoint1.e
Quant Time: Jan 29 02:11:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

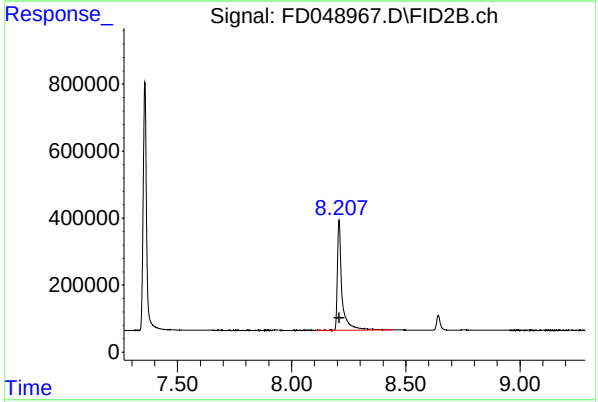




#4 2-Bromonaphthalene (SURR)

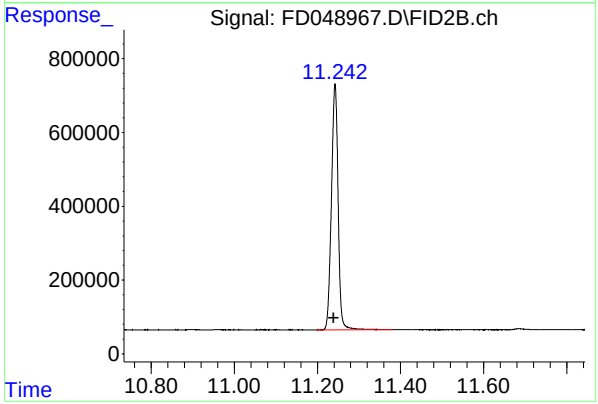
R.T.: 7.357 min
Delta R.T.: 0.000 min
Response: 7600058
Conc: 53.40 ug/ml

Instrument :
FID_D
ClientSampleId :
PB166219BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.208 min
Delta R.T.: -0.002 min
Response: 4575671
Conc: 53.78 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.243 min
Delta R.T.: 0.003 min
Response: 7420730
Conc: 45.12 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048967.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 15:42
Sample : PB166219BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	7.357	7.282	7.539	BV	742293	7600058	100.00%	38.783%
2	8.208	8.107	8.444	BV	328833	4575671	60.21%	23.349%
3	11.243	11.197	11.382	BB	666759	7420730	97.64%	37.868%

Sum of corrected areas: 19596459

Aromatic EPH 012425.M Wed Jan 29 02:46:35 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BS	SDG No.:	Q1194
Lab Sample ID:	PB166218BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 16:20	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.72		1	0.38	1.00	mg/kg	FG015184.D
Aliphatic C12-C16	Aliphatic C12-C16	6.16		1	0.24	0.67	mg/kg	FG015184.D
Aliphatic C16-C21	Aliphatic C16-C21	11.2		1	0.30	1.00	mg/kg	FG015184.D
Aliphatic C21-C28	Aliphatic C21-C28	15.1		1	0.80	1.33	mg/kg	FG015184.D
Aliphatic C28-C40	Aliphatic C28-C40	25.5		1	1.80	2.00	mg/kg	FG015184.D
Aromatic C10-C12	Aromatic C10-C12	5.79		1	0.30	0.67	mg/kg	FF015327.D
Aromatic C12-C16	Aromatic C12-C16	10.8		1	0.34	1.00	mg/kg	FF015327.D
Aromatic C16-C21	Aromatic C16-C21	20.6		1	0.96	1.67	mg/kg	FF015327.D
Aromatic C21-C36	Aromatic C21-C36	32.0		1	2.00	2.66	mg/kg	FF015327.D
Total AliphaticEPH	Total AliphaticEPH	64.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	69.2			3.60	6.00	mg/kg	
Total EPH	Total EPH	134			7.12	12.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BS	SDG No.:	Q1194
Lab Sample ID:	PB166218BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 16:20	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.72		1	0.38	1.00	mg/kg	FG015184.D
Aliphatic C12-C16	Aliphatic C12-C16	6.16		1	0.24	0.67	mg/kg	FG015184.D
Aliphatic C16-C21	Aliphatic C16-C21	11.2		1	0.30	1.00	mg/kg	FG015184.D
Aliphatic C21-C28	Aliphatic C21-C28	15.1		1	0.80	1.33	mg/kg	FG015184.D
Aliphatic C28-C40	Aliphatic C28-C40	25.5		1	1.80	2.00	mg/kg	FG015184.D
Aromatic C10-C12	Aromatic C10-C12	5.79		1	0.30	0.67	mg/kg	FF015327.D
Aromatic C12-C16	Aromatic C12-C16	10.8		1	0.34	1.00	mg/kg	FF015327.D
Aromatic C16-C21	Aromatic C16-C21	20.6		1	0.96	1.67	mg/kg	FF015327.D
Aromatic C21-C36	Aromatic C21-C36	32.0		1	2.00	2.66	mg/kg	FF015327.D
Total AliphaticEPH	Total AliphaticEPH	64.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	69.2			3.60	6.00	mg/kg	
Total EPH	Total EPH	134			7.12	12.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BS	SDG No.:	Q1194
Lab Sample ID:	PB166218BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 16:20	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.72		1	0.38	1.00	mg/kg	FG015184.D
Aliphatic C12-C16	Aliphatic C12-C16	6.16		1	0.24	0.67	mg/kg	FG015184.D
Aliphatic C16-C21	Aliphatic C16-C21	11.2		1	0.30	1.00	mg/kg	FG015184.D
Aliphatic C21-C28	Aliphatic C21-C28	15.1		1	0.80	1.33	mg/kg	FG015184.D
Aliphatic C28-C40	Aliphatic C28-C40	25.5		1	1.80	2.00	mg/kg	FG015184.D
Aromatic C10-C12	Aromatic C10-C12	5.79		1	0.30	0.67	mg/kg	FF015327.D
Aromatic C12-C16	Aromatic C12-C16	10.8		1	0.34	1.00	mg/kg	FF015327.D
Aromatic C16-C21	Aromatic C16-C21	20.6		1	0.96	1.67	mg/kg	FF015327.D
Aromatic C21-C36	Aromatic C21-C36	32.0		1	2.00	2.66	mg/kg	FF015327.D
Total AliphaticEPH	Total AliphaticEPH	64.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	69.2			3.60	6.00	mg/kg	
Total EPH	Total EPH	134			7.12	12.0	mg/kg	

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BS	SDG No.:	Q1194
Lab Sample ID:	PB166218BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015327.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.79		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	10.8		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	20.6		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	32.0		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.7		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.4		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.3		40 - 140	93%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166218BS	Acq On:	28 Jan 2025 16:20
Client Sample ID:	PB166218BS	Operator:	YP\AJ
Data file:	FF015327.D	Misc:	
Instrument:	FID_F	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	13940227	86.926	200	ug/ml
Aromatic C12-C16	6.356	9.053	25994375	162.134	300	ug/ml
Aromatic C16-C21	9.054	13.372	48498475	309.528	500	ug/ml
Aromatic C21-C36	13.373	18.824	69937175	480.356	800	ug/ml
Aromatic EPH	4.485	18.824	158370252	1040		ug/ml
2-Bromonaphthalene (SURR)	7.990	7.990	8139073	61.66		ug/ml
2-Flurobiphenyl (SURR)	8.864	8.864	4588846	54.36		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	7969827	46.3		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015327.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:20
Operator : YP\AJ
Sample : PB166218BS
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 29 00:46:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
PB166218BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.990	8139073	61.659 ug/ml
Spiked Amount	50.000		Recovery =	123.32%
6) S	2-Flurobiphenyl (SURR)	8.864	4588846	54.365 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	108.73%
11) S	ortho-Terphenyl (SURR)	11.929	7969827	46.298 ug/ml
Spiked Amount	50.000		Recovery =	92.60%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.601	6293947	39.238 ug/ml
2) T	Naphthalene (C11.7)	6.268	7646280	47.689 ug/ml
3) T	2-Methylnaphthalene (...	7.364	7570916	47.611 ug/ml
5) T	Acenaphthylene (C15.06)	8.666	9013730	56.726 ug/ml
7) T	Acenaphthene (C15.5)	8.966	9409729	57.706 ug/ml
8) T	Flouorene (C16.55)	9.755	9729007	61.789 ug/ml
9) T	Phenanthrene (C19.36)	11.162	9681125	60.634 ug/ml
10) T	Anthracene (C19.43)	11.239	9657662	65.413 ug/ml
12) T	Fluoranthene (C21.85)	12.984	9770898	59.062 ug/ml
13) T	Pyrene (C20.8)	13.284	9659783	59.637 ug/ml
14) T	Benzo[a]anthracene (C...	15.165	8901226	59.668 ug/ml
15) T	Chrysene (C27.41)	15.212	9851376	63.423 ug/ml
16) T	benzo[b]fluoranthene ...	16.726	8756873	59.174 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.764	8792087	62.184 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.108	8341702	58.711 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.484	8902052	70.647 ug/ml
20) T	Dibenz[a,h]anthracene...	18.523	7907333	53.446 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.744	8570181	63.487 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015327.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:20
Operator : YP\AJ
Sample : PB166218BS
Misc :
ALS Vial : 64 Sample Multiplier: 1

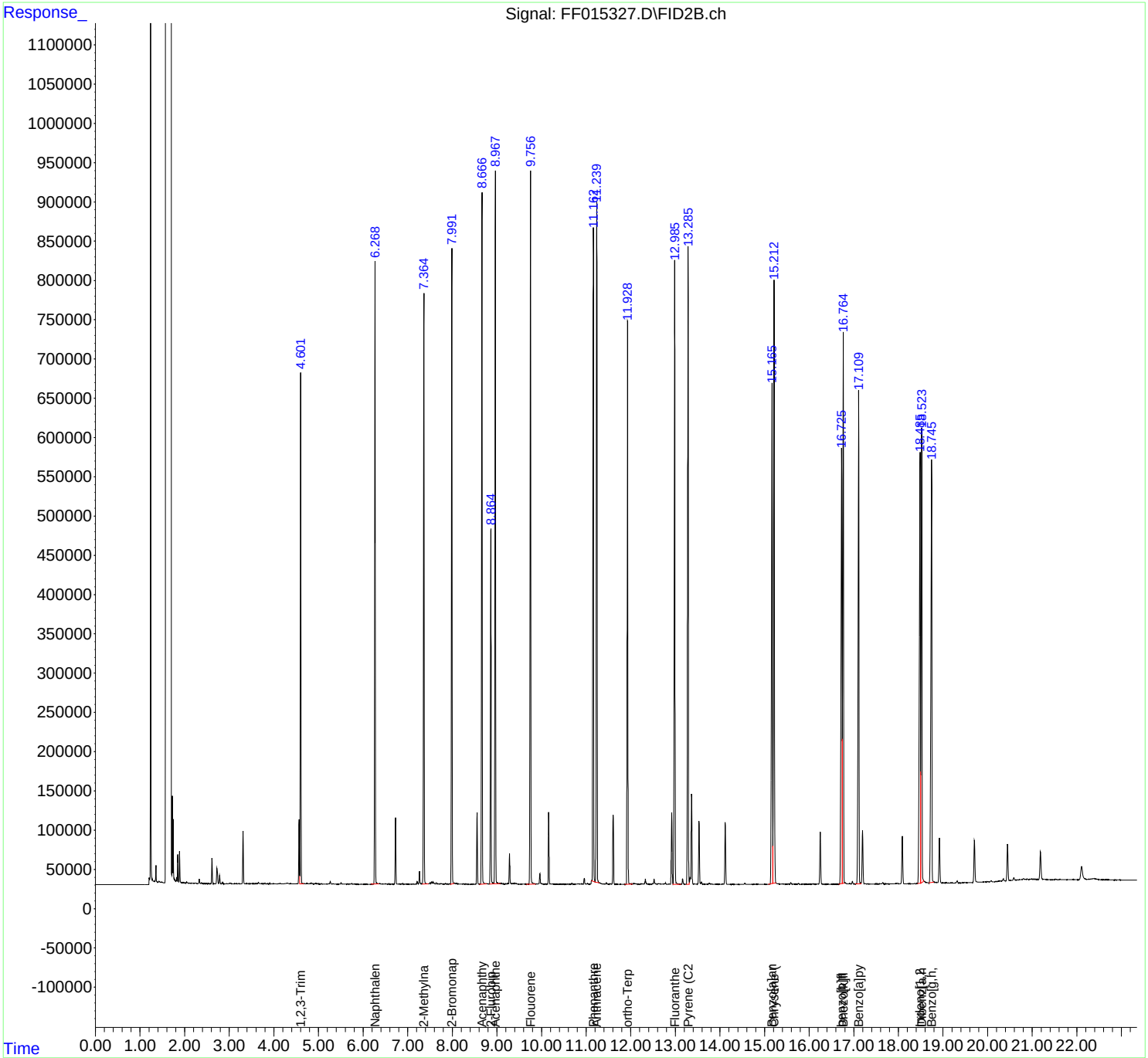
Integration File: autoint1.e
Quant Time: Jan 29 00:46:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
PB166218BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025



Instrument :
FID_F
ClientSampleId :
PB166218BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01282
Data File : FF015327.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:20
Sample : PB166218BS
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.601	4.580	4.670	VV	649920	6293947	63.89%	3.515%
2	6.268	6.175	6.355	BV	794503	7646280	77.62%	4.270%
3	7.364	7.320	7.464	PB	752043	7570916	76.85%	4.228%
4	7.990	7.957	8.039	PV	809841	8139073	82.62%	4.545%
5	8.666	8.602	8.775	PV	878943	9013730	91.50%	5.034%
6	8.864	8.830	8.932	BV	452427	4588846	46.58%	2.563%
7	8.966	8.932	9.085	VB	913620	9409729	95.52%	5.255%
8	9.755	9.649	9.869	BV	907743	9729007	98.76%	5.433%
9	11.162	11.120	11.201	BV	830712	9681125	98.27%	5.406%
10	11.239	11.201	11.300	PBA	868306	9657662	98.03%	5.393%
11	11.929	11.859	12.044	BV	719519	7969827	80.90%	4.451%
12	12.984	12.944	13.127	VB	789143	9770898	99.18%	5.457%
13	13.284	13.240	13.312	BV	808415	9659783	98.06%	5.394%
14	15.165	15.077	15.184	BV	635509	8901226	90.36%	4.971%
15	15.212	15.184	15.250	VBA	769863	9851376	100.00%	5.501%
16	16.726	16.660	16.742	BV	554220	8756873	88.89%	4.890%
17	16.763	16.742	16.790	VBA	701444	8676329	88.07%	4.845%
18	17.108	17.030	17.162	BV	628999	8341702	84.68%	4.658%
19	18.484	18.426	18.499	PV	542757	8902052	90.36%	4.971%
20	18.522	18.499	18.620	VBA	573155	7937436	80.57%	4.433%
21	18.744	18.680	18.800	BBA	531199	8570181	86.99%	4.786%
			Sum of corrected areas:			179067997		

Aromatic EPH 011425.M Wed Jan 29 01:34:31 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BS	SDG No.:	Q1194
Lab Sample ID:	PB166218BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015184.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.72		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.16		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.2		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	15.1		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	25.5		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.7		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166218BS	Acq On:	28 Jan 2025 16:20
Client Sample ID:	PB166218BS	Operator:	YP\AJ
Data file:	FG015184.D	Misc:	
Instrument:	FID_G	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	13399408	100.832	300	ug/ml
Aliphatic C12-C16	6.821	10.273	13046289	92.389	200	ug/ml
Aliphatic C16-C21	10.274	13.656	24368059	168.615	300	ug/ml
Aliphatic C21-C28	13.657	17.330	31064529	227.233	400	ug/ml
Aliphatic C28-C40	17.331	22.272	40438634	382.976	600	ug/ml
Aliphatic EPH	3.178	22.272	122316919	972.046		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.386	13.386	5562109	45.68		ug/ml
Aliphatic C9-C28	3.178	17.330	81878285	589.069	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015184.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:20
Operator : YP\AJ
Sample : PB166218BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166218BS

Integration File: autoint1.e
Quant Time: Jan 29 02:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.386	5562109	45.680 ug/ml
Spiked Amount	50.000		Recovery =	91.36%
	Target Compounds			
1) T	n-Nonane (C9)	3.281	3612920	27.827 ug/ml
2) T	n-Decane (C10)	4.540	4504308	33.895 ug/ml
4) T	n-Dodecane (C12)	6.720	5282180	38.856 ug/ml
6) T	n-Tetradecane (C14)	8.559	6153130	44.742 ug/ml
7) T	n-Hexadecane (C16)	10.175	6893159	47.573 ug/ml
8) T	n-Octadecane (C18)	11.625	7916527	53.264 ug/ml
10) T	n-Eicosane (C20)	12.941	8383911	58.410 ug/ml
11) T	n-Heneicosane (C21)	13.555	8067621	57.058 ug/ml
13) T	n-Docosane (C22)	14.144	8038143	57.170 ug/ml
14) T	n-Tetracosane (C24)	15.252	7894531	56.720 ug/ml
15) T	n-Hexacosane (C26)	16.278	7682019	56.715 ug/ml
16) T	n-Octacosane (C28)	17.231	7449836	56.611 ug/ml
17) T	n-Tricontane (C30)	18.121	7371534	55.568 ug/ml
18) T	n-Dotriacontane (C32)	18.954	7113942	56.405 ug/ml
19) T	n-Tetratriacontane (C34)	19.743	6857927	62.985 ug/ml
20) T	n-Hexatriacontane (C36)	20.483	6504420	69.669 ug/ml
21) T	n-Octatriacontane (C38)	21.232	6359416	72.468 ug/ml
22) T	n-Tetracontane (C40)	22.174	6231395	73.516 ug/ml

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

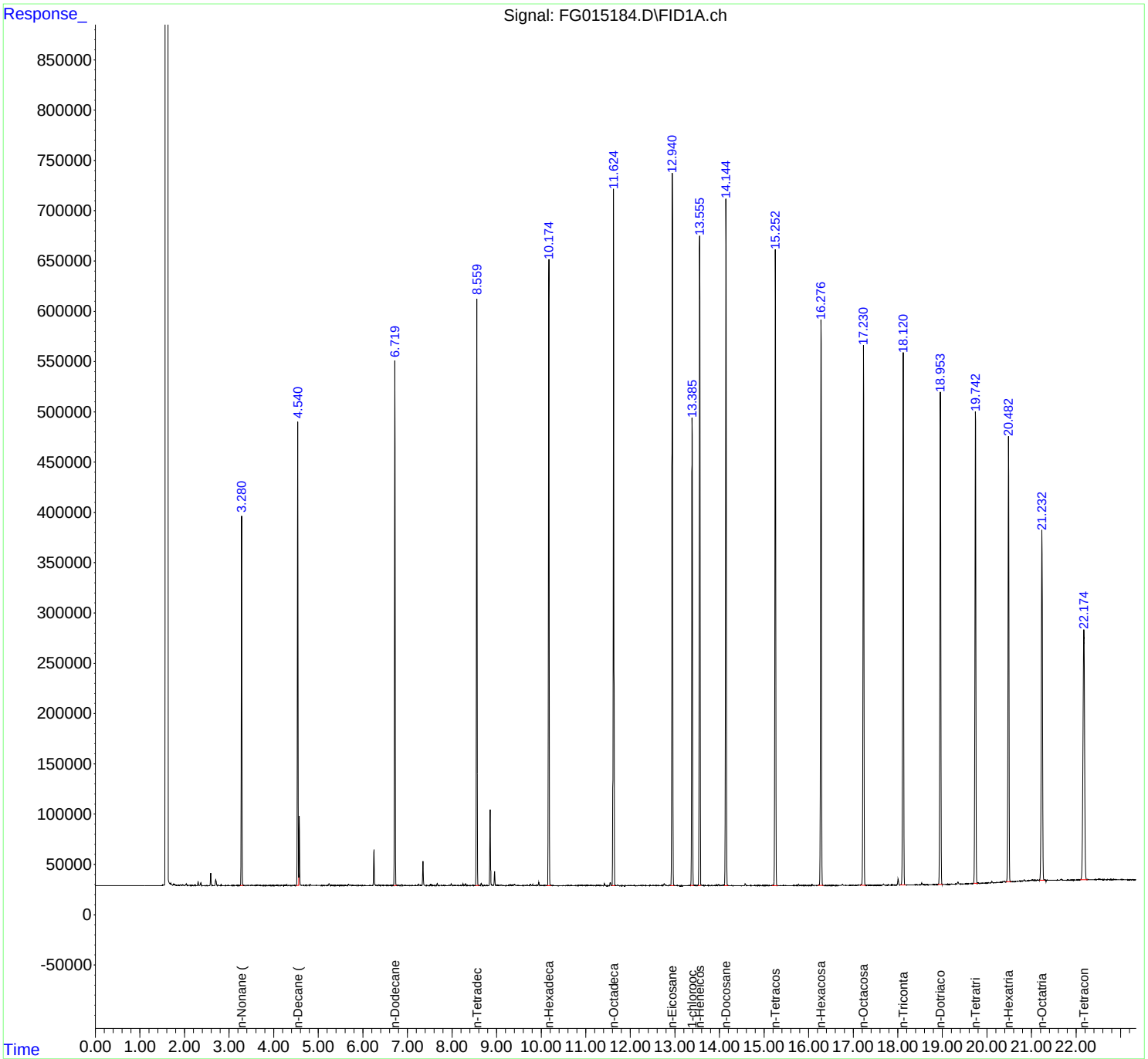
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015184.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:20
Operator : YP\AJ
Sample : PB166218BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166218BS

Integration File: autoint1.e
Quant Time: Jan 29 02:34:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015184.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:20
Sample : PB166218BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.281	3.246	3.321	BB	367496	3612920	43.09%	2.825%
2	4.540	4.508	4.560	BV	460938	4504308	53.73%	3.522%
3	6.720	6.688	6.763	BB	520663	5282180	63.00%	4.131%
4	8.559	8.521	8.605	BB	583548	6153130	73.39%	4.812%
5	10.175	10.128	10.225	BB	617203	6893159	82.22%	5.390%
6	11.625	11.585	11.662	BB	690704	7916527	94.43%	6.191%
7	12.941	12.899	12.986	BB	703741	8383911	100.00%	6.556%
8	13.386	13.347	13.430	BB	465364	5562109	66.34%	4.350%
9	13.555	13.515	13.589	BB	645504	8067621	96.23%	6.309%
10	14.144	14.105	14.190	VB	680301	8038143	95.88%	6.286%
11	15.252	15.178	15.306	BB	630904	7894531	94.16%	6.173%
12	16.278	16.210	16.333	BB	560194	7682019	91.63%	6.007%
13	17.231	17.156	17.285	BB	536005	7449836	88.86%	5.826%
14	18.121	18.052	18.178	BB	525752	7371534	87.92%	5.764%
15	18.954	18.898	19.011	BB	488000	7113942	84.85%	5.563%
16	19.743	19.700	19.797	BB	468794	6857927	81.80%	5.363%
17	20.483	20.425	20.541	BB	441576	6504420	77.58%	5.086%
18	21.232	21.180	21.299	BB	345997	6359416	75.85%	4.973%
19	22.174	22.089	22.263	BB	248803	6231395	74.33%	4.873%

Sum of corrected areas: 127879029

Aliphatic EPH 011425.M Wed Jan 29 03:37:51 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BS	SDG No.:	Q1194
Lab Sample ID:	PB166219BS	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
01/28/25 08:31	01/28/25 16:18	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	194		1	5.76	30.0	ug/l	FC068134.D
Aliphatic C12-C16	Aliphatic C12-C16	175		1	3.61	20.0	ug/l	FC068134.D
Aliphatic C16-C21	Aliphatic C16-C21	292		1	5.14	30.0	ug/l	FC068134.D
Aliphatic C21-C28	Aliphatic C21-C28	391		1	8.97	40.0	ug/l	FC068134.D
Aliphatic C28-C40	Aliphatic C28-C40	644		1	17.0	60.0	ug/l	FC068134.D
Aromatic C10-C12	Aromatic C10-C12	192		1	3.32	20.0	ug/l	FD048968.D
Aromatic C12-C16	Aromatic C12-C16	325		1	3.69	30.0	ug/l	FD048968.D
Aromatic C16-C21	Aromatic C16-C21	645		1	12.7	50.0	ug/l	FD048968.D
Aromatic C21-C36	Aromatic C21-C36	1040		1	25.2	80.0	ug/l	FD048968.D
Total AliphaticEPH	Total AliphaticEPH	1700			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2200			44.9	180	ug/l	
Total EPH	Total EPH	3900			85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BS	SDG No.:	Q1194
Lab Sample ID:	PB166219BS	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
01/28/25 08:31	01/28/25 16:18	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	194		1	5.76	30.0	ug/l	FC068134.D
Aliphatic C12-C16	Aliphatic C12-C16	175		1	3.61	20.0	ug/l	FC068134.D
Aliphatic C16-C21	Aliphatic C16-C21	292		1	5.14	30.0	ug/l	FC068134.D
Aliphatic C21-C28	Aliphatic C21-C28	391		1	8.97	40.0	ug/l	FC068134.D
Aliphatic C28-C40	Aliphatic C28-C40	644		1	17.0	60.0	ug/l	FC068134.D
Aromatic C10-C12	Aromatic C10-C12	192		1	3.32	20.0	ug/l	FD048968.D
Aromatic C12-C16	Aromatic C12-C16	325		1	3.69	30.0	ug/l	FD048968.D
Aromatic C16-C21	Aromatic C16-C21	645		1	12.7	50.0	ug/l	FD048968.D
Aromatic C21-C36	Aromatic C21-C36	1040		1	25.2	80.0	ug/l	FD048968.D
Total AliphaticEPH	Total AliphaticEPH	1700			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2200			44.9	180	ug/l	
Total EPH	Total EPH	3900			85.4	360	ug/l	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BS	SDG No.:	Q1194
Lab Sample ID:	PB166219BS	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
01/28/25 08:31	01/28/25 16:18	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	194		1	5.76	30.0	ug/l	FC068134.D
Aliphatic C12-C16	Aliphatic C12-C16	175		1	3.61	20.0	ug/l	FC068134.D
Aliphatic C16-C21	Aliphatic C16-C21	292		1	5.14	30.0	ug/l	FC068134.D
Aliphatic C21-C28	Aliphatic C21-C28	391		1	8.97	40.0	ug/l	FC068134.D
Aliphatic C28-C40	Aliphatic C28-C40	644		1	17.0	60.0	ug/l	FC068134.D
Aromatic C10-C12	Aromatic C10-C12	192		1	3.32	20.0	ug/l	FD048968.D
Aromatic C12-C16	Aromatic C12-C16	325		1	3.69	30.0	ug/l	FD048968.D
Aromatic C16-C21	Aromatic C16-C21	645		1	12.7	50.0	ug/l	FD048968.D
Aromatic C21-C36	Aromatic C21-C36	1040		1	25.2	80.0	ug/l	FD048968.D
Total AliphaticEPH	Total AliphaticEPH	1700			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2200			44.9	180	ug/l	
Total EPH	Total EPH	3900			85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BS	SDG No.:	Q1194
Lab Sample ID:	PB166219BS	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
FC068134.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	194		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	175		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	292		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	391		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	644		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.4		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166219BS	Acq On:	28 Jan 2025 16:18
Client Sample ID:	PB166219BS	Operator:	YP/AJ
Data file:	FC068134.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.129	6.397	13478505	97.326	300	ug/ml
Aliphatic C12-C16	6.398	9.782	12117967	87.994	200	ug/ml
Aliphatic C16-C21	9.783	13.137	19760847	146.356	300	ug/ml
Aliphatic C21-C28	13.138	16.791	24926480	195.951	400	ug/ml
Aliphatic C28-C40	16.792	21.605	33380338	322.083	600	ug/ml
Aliphatic EPH	3.129	21.605	103664137	849.711		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.869	12.869	4525889	39.35		ug/ml
Aliphatic C9-C28	3.129	16.791	70283799	527.627	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068134.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:18
Operator : YP/AJ
Sample : PB166219BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166219BS

Integration File: autoint1.e
Quant Time: Jan 29 00:44:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.869	4525889	39.355 ug/ml
Spiked Amount	50.000		Recovery =	78.71%
	Target Compounds			
1) T	n-Nonane (C9)	3.232	3725844	27.209 ug/ml
2) T	n-Decane (C10)	4.290	4555651	32.814 ug/ml
4) T	n-Dodecane (C12)	6.299	5197010	37.202 ug/ml
6) T	n-Tetradecane (C14)	8.088	5832813	42.738 ug/ml
7) T	n-Hexadecane (C16)	9.684	6285154	45.234 ug/ml
8) T	n-Octadecane (C18)	11.122	6551000	46.821 ug/ml
10) T	n-Eicosane (C20)	12.428	6752597	50.467 ug/ml
11) T	n-Heneicosane (C21)	13.039	6457250	49.164 ug/ml
13) T	n-Docosane (C22)	13.625	6421955	49.577 ug/ml
14) T	n-Tetracosane (C24)	14.725	6306255	49.119 ug/ml
15) T	n-Hexacosane (C26)	15.743	6166745	49.006 ug/ml
16) T	n-Octacosane (C28)	16.691	6031525	48.224 ug/ml
17) T	n-Tricontane (C30)	17.577	6039631	46.726 ug/ml
18) T	n-Dotriacontane (C32)	18.408	5921192	47.365 ug/ml
19) T	n-Tetratriacontane (C34)	19.191	5768275	53.176 ug/ml
20) T	n-Hexatriacontane (C36)	19.929	5431797	58.695 ug/ml
21) T	n-Octatriacontane (C38)	20.642	5185853	60.520 ug/ml
22) T	n-Tetracontane (C40)	21.506	5033590	62.251 ug/ml

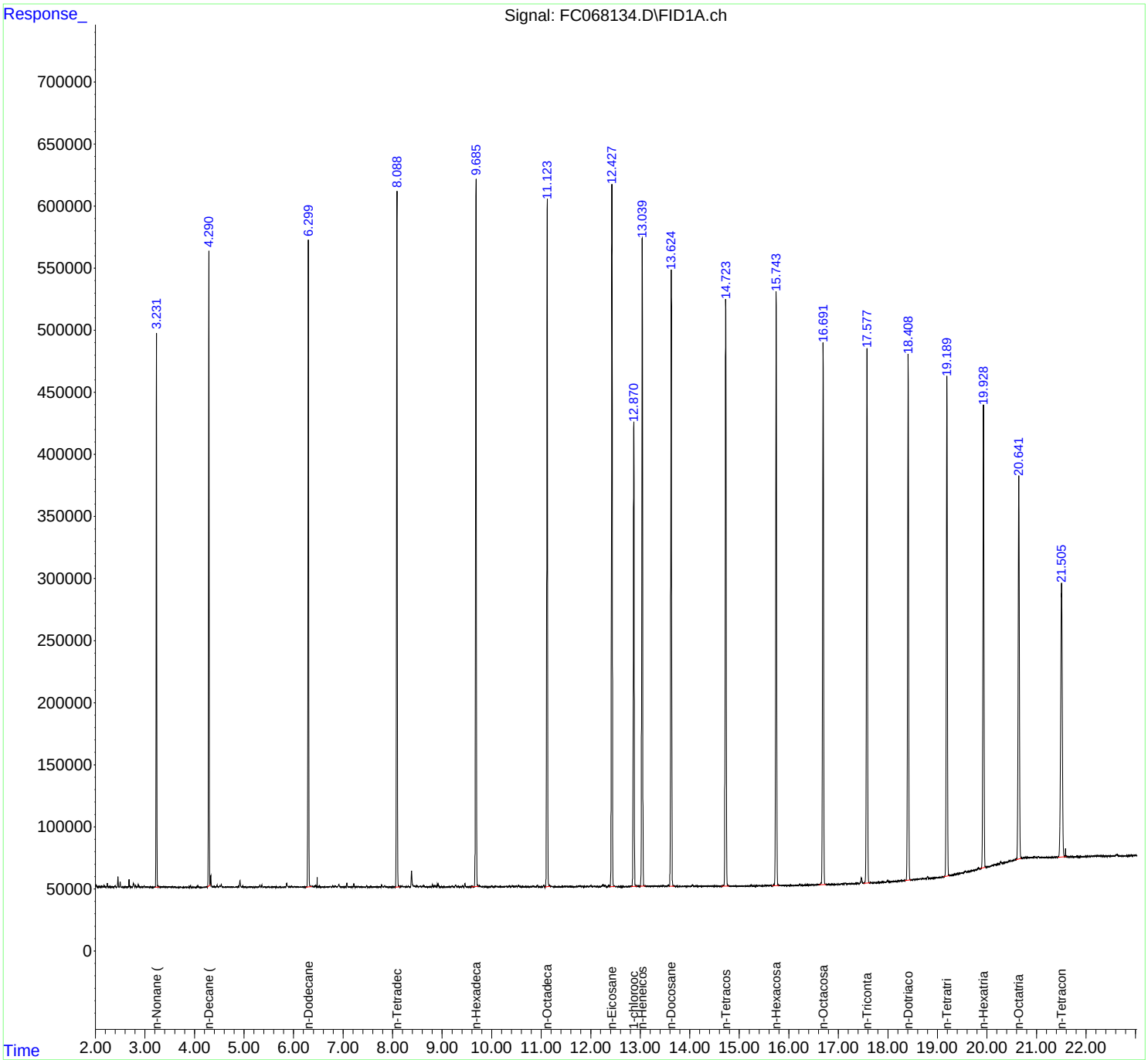
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068134.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:18
Operator : YP/AJ
Sample : PB166219BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166219BS

Integration File: autoint1.e
Quant Time: Jan 29 00:44:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068134.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:18
Sample : PB166219BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.232	3.204	3.291	BB	446276	3725844	55.18%	3.444%
2	4.290	4.258	4.315	BV	511963	4555651	67.47%	4.211%
3	6.299	6.248	6.361	BB	519044	5197010	76.96%	4.804%
4	8.088	8.048	8.151	BB	559167	5832813	86.38%	5.391%
5	9.684	9.584	9.738	BB	566712	6285154	93.08%	5.809%
6	11.122	11.081	11.184	BB	546465	6551000	97.01%	6.055%
7	12.428	12.388	12.491	BB	562701	6752597	100.00%	6.241%
8	12.869	12.811	12.941	BB	377834	4525889	67.02%	4.183%
9	13.039	12.994	13.104	BB	520536	6457250	95.63%	5.968%
10	13.625	13.584	13.684	VB	493720	6421955	95.10%	5.936%
11	14.725	14.634	14.791	BB	474246	6306255	93.39%	5.829%
12	15.743	15.661	15.808	BB	477951	6166745	91.32%	5.700%
13	16.691	16.608	16.754	BB	435732	6031525	89.32%	5.575%
14	17.577	17.511	17.641	BB	431354	6039631	89.44%	5.582%
15	18.408	18.341	18.464	BB	421300	5921192	87.69%	5.473%
16	19.191	19.121	19.241	BB	395194	5768275	85.42%	5.332%
17	19.929	19.871	19.968	BB	372570	5431797	80.44%	5.021%
18	20.642	20.581	20.694	BB	307493	5185853	76.80%	4.793%
19	21.506	21.431	21.608	BB	219336	5033590	74.54%	4.653%

Sum of corrected areas: 108190026

Aliphatic EPH 012425.M Wed Jan 29 02:06:57 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166219BS		SDG No.:	Q1194	
Lab Sample ID:	PB166219BS		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
FD048968.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	192		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	325		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	645		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	1040		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	56.8		40 - 140	114%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	60.8		40 - 140	122%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	48.0		40 - 140	96%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166219BS	Acq On:	28 Jan 2025 16:18
Client Sample ID:	PB166219BS	Operator:	YP/AJ
Data file:	FD048968.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.794	14951023	96.315	200	ug/ml
Aromatic C12-C16	5.795	8.400	26375285	162.598	300	ug/ml
Aromatic C16-C21	8.401	12.666	49912193	322.747	500	ug/ml
Aromatic C21-C36	12.667	18.077	74109610	520.057	800	ug/ml
Aromatic EPH	4.075	18.077	165348111	1100		ug/ml
2-Bromonaphthalene (SURR)	7.357	7.357	8086195	56.82		ug/ml
2-Flurobiphenyl (SURR)	8.209	8.209	5175064	60.82		ug/ml
ortho-Terphenyl (SURR)	11.243	11.243	7890956	47.98		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048968.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:18
Operator : YP/AJ
Sample : PB166219BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166219BS

Integration File: autoint1.e
Quant Time: Jan 29 02:11:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.357	8086195	56.816 ug/ml
	Spiked Amount 50.000		Recovery = 113.63%	
6)	S 2-Flurobiphenyl (SURR)	8.209	5175064	60.820 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 121.64%	
11)	S ortho-Terphenyl (SURR)	11.243	7890956	47.983 ug/ml
	Spiked Amount 50.000		Recovery = 95.97%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.181	7004263	45.439 ug/ml
2)	T Naphthalene (C11.7)	5.698	7946760	50.838 ug/ml
3)	T 2-Methylnaphthalene (...	6.744	7756673	50.001 ug/ml
5)	T Acenaphthylene (C15.06)	8.011	8962245	54.801 ug/ml
7)	T Acenaphthene (C15.5)	8.307	9656367	57.491 ug/ml
8)	T Flouorene (C16.55)	9.086	9674552	61.845 ug/ml
9)	T Phenanthrene (C19.36)	10.474	9900566	65.006 ug/ml
10)	T Anthracene (C19.43)	10.550	10067480	66.092 ug/ml
12)	T Fluoranthene (C21.85)	12.280	10189858	64.782 ug/ml
13)	T Pyrene (C20.8)	12.573	10079737	63.984 ug/ml
14)	T Benzo[a]anthracene (C...	14.445	9566321	74.342 ug/ml
15)	T Chrysene (C27.41)	14.486	9445146	55.856 ug/ml
16)	T benzo[b]fluoranthene ...	15.995	9483980	69.413 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.030	9671545	59.717 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.370	9138771	65.662 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.741	8962541	85.937 ug/ml
20)	T Dibenz[a,h]anthracene...	17.775	8895841	62.315 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.993	8945465	62.714 ug/ml

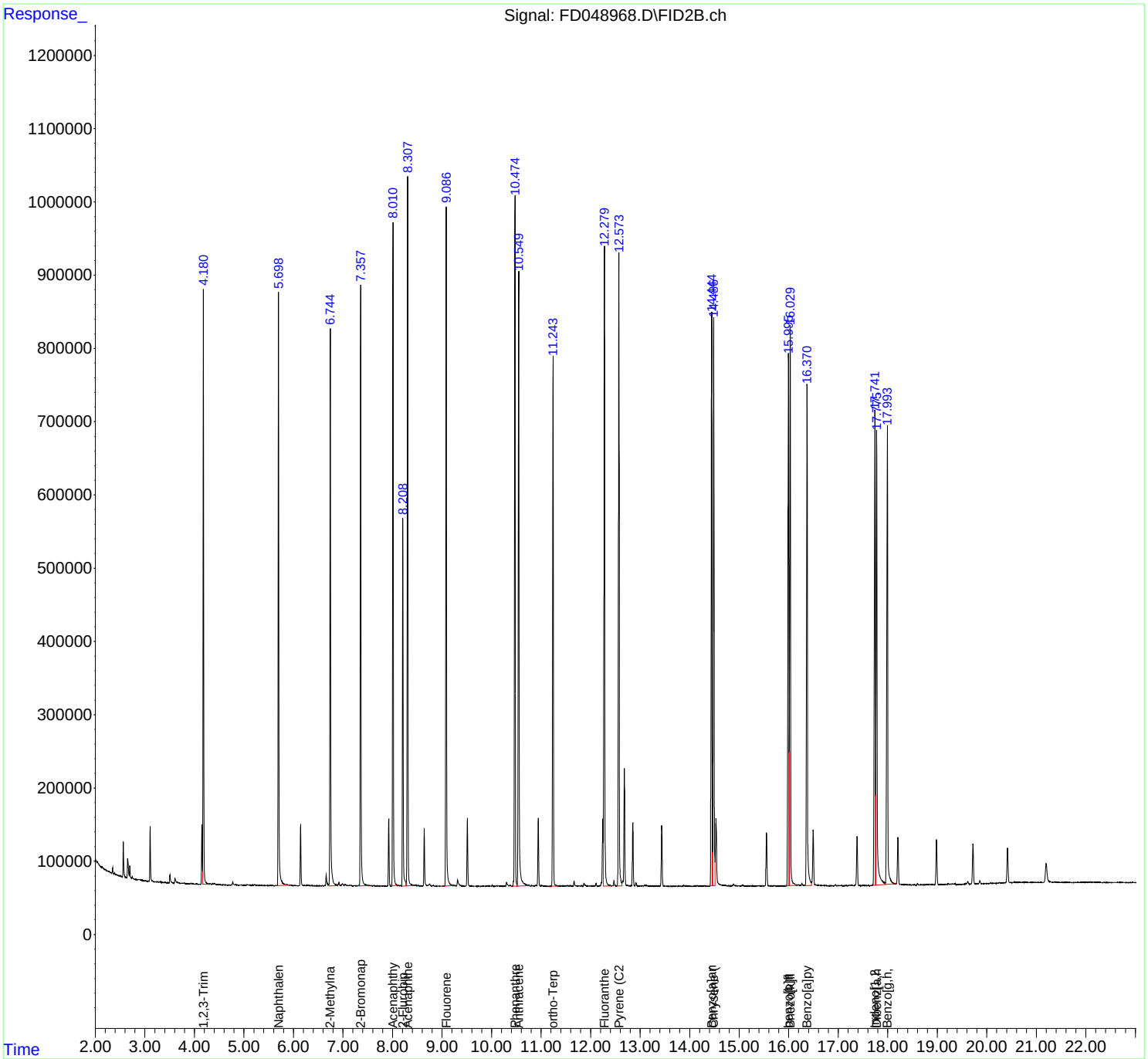
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048968.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:18
Operator : YP/AJ
Sample : PB166219BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166219BS

Integration File: autoint1.e
Quant Time: Jan 29 02:11:10 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048968.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:18
Sample : PB166219BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.181	4.164	4.307	VV	811523	7004263	68.74%	3.756%
2	5.698	5.650	5.893	BB	811969	7946760	77.99%	4.261%
3	6.744	6.715	6.887	VV	763289	7756673	76.12%	4.159%
4	7.357	7.332	7.512	VB	818179	8086195	79.36%	4.336%
5	8.011	7.960	8.113	BV	903550	8962245	87.95%	4.805%
6	8.209	8.180	8.278	BV	501732	5175064	50.79%	2.775%
7	8.307	8.278	8.448	VV	967217	9656367	94.76%	5.178%
8	9.086	8.980	9.230	BV	922909	9674552	94.94%	5.187%
9	10.474	10.402	10.517	BV	941323	9900566	97.16%	5.309%
10	10.550	10.517	10.777	VB	838961	10067480	98.80%	5.398%
11	11.243	11.183	11.342	BB	723830	7890956	77.44%	4.231%
12	12.280	12.255	12.430	VB	871202	10189858	100.00%	5.464%
13	12.573	12.523	12.633	BV	866476	10079737	98.92%	5.405%
14	14.445	14.343	14.461	BV	782583	9566321	93.88%	5.129%
15	14.487	14.461	14.514	VV	773830	9445146	92.69%	5.064%
16	15.995	15.930	16.008	BV	727373	9483980	93.07%	5.085%
17	16.030	16.008	16.163	VB	766183	9671545	94.91%	5.186%
18	16.370	16.310	16.461	BV	684073	9138771	89.68%	4.900%
19	17.741	17.690	17.754	BV	645574	8962541	87.96%	4.806%
20	17.775	17.754	17.950	VV	620736	8895841	87.30%	4.770%
21	17.993	17.950	18.165	VV	629009	8945465	87.79%	4.796%
			Sum of corrected areas:			186500327		

Aromatic EPH 012425.M Wed Jan 29 02:47:39 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BSD	SDG No.:	Q1194
Lab Sample ID:	PB166218BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 16:49	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.22		1	0.38	1.00	mg/kg	FG015185.D
Aliphatic C12-C16	Aliphatic C12-C16	6.61		1	0.24	0.67	mg/kg	FG015185.D
Aliphatic C16-C21	Aliphatic C16-C21	12.1		1	0.30	1.00	mg/kg	FG015185.D
Aliphatic C21-C28	Aliphatic C21-C28	16.3		1	0.80	1.33	mg/kg	FG015185.D
Aliphatic C28-C40	Aliphatic C28-C40	27.7		1	1.80	2.00	mg/kg	FG015185.D
Aromatic C10-C12	Aromatic C10-C12	6.32		1	0.30	0.67	mg/kg	FF015328.D
Aromatic C12-C16	Aromatic C12-C16	11.8		1	0.34	1.00	mg/kg	FF015328.D
Aromatic C16-C21	Aromatic C16-C21	22.8		1	0.96	1.67	mg/kg	FF015328.D
Aromatic C21-C36	Aromatic C21-C36	35.7		1	2.00	2.67	mg/kg	FF015328.D
Total AliphaticEPH	Total AliphaticEPH	69.9			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	76.6			3.60	6.01	mg/kg	
Total EPH	Total EPH	147			7.12	12.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BSD	SDG No.:	Q1194
Lab Sample ID:	PB166218BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 16:49	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.22		1	0.38	1.00	mg/kg	FG015185.D
Aliphatic C12-C16	Aliphatic C12-C16	6.61		1	0.24	0.67	mg/kg	FG015185.D
Aliphatic C16-C21	Aliphatic C16-C21	12.1		1	0.30	1.00	mg/kg	FG015185.D
Aliphatic C21-C28	Aliphatic C21-C28	16.3		1	0.80	1.33	mg/kg	FG015185.D
Aliphatic C28-C40	Aliphatic C28-C40	27.7		1	1.80	2.00	mg/kg	FG015185.D
Aromatic C10-C12	Aromatic C10-C12	6.32		1	0.30	0.67	mg/kg	FF015328.D
Aromatic C12-C16	Aromatic C12-C16	11.8		1	0.34	1.00	mg/kg	FF015328.D
Aromatic C16-C21	Aromatic C16-C21	22.8		1	0.96	1.67	mg/kg	FF015328.D
Aromatic C21-C36	Aromatic C21-C36	35.7		1	2.00	2.67	mg/kg	FF015328.D
Total AliphaticEPH	Total AliphaticEPH	69.9			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	76.6			3.60	6.01	mg/kg	
Total EPH	Total EPH	147			7.12	12.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BSD	SDG No.:	Q1194
Lab Sample ID:	PB166218BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 16:49	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.22		1	0.38	1.00	mg/kg	FG015185.D
Aliphatic C12-C16	Aliphatic C12-C16	6.61		1	0.24	0.67	mg/kg	FG015185.D
Aliphatic C16-C21	Aliphatic C16-C21	12.1		1	0.30	1.00	mg/kg	FG015185.D
Aliphatic C21-C28	Aliphatic C21-C28	16.3		1	0.80	1.33	mg/kg	FG015185.D
Aliphatic C28-C40	Aliphatic C28-C40	27.7		1	1.80	2.00	mg/kg	FG015185.D
Aromatic C10-C12	Aromatic C10-C12	6.32		1	0.30	0.67	mg/kg	FF015328.D
Aromatic C12-C16	Aromatic C12-C16	11.8		1	0.34	1.00	mg/kg	FF015328.D
Aromatic C16-C21	Aromatic C16-C21	22.8		1	0.96	1.67	mg/kg	FF015328.D
Aromatic C21-C36	Aromatic C21-C36	35.7		1	2.00	2.67	mg/kg	FF015328.D
Total AliphaticEPH	Total AliphaticEPH	69.9			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	76.6			3.60	6.01	mg/kg	
Total EPH	Total EPH	147			7.12	12.0	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BSD	SDG No.:	Q1194
Lab Sample ID:	PB166218BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015328.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.32		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	11.8		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	22.8		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	35.7		2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	67.4		40 - 140	135%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.7		40 - 140	119%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.6		40 - 140	101%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166218BSD	Acq On:	28 Jan 2025 16:49
Client Sample ID:	PB166218BSD	Operator:	YP\AJ
Data file:	FF015328.D	Misc:	
Instrument:	FID_F	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	15213196	94.864	200	ug/ml
Aromatic C12-C16	6.356	9.053	28427662	177.311	300	ug/ml
Aromatic C16-C21	9.054	13.372	53542946	341.723	500	ug/ml
Aromatic C21-C36	13.373	18.824	78100409	536.424	800	ug/ml
Aromatic EPH	4.485	18.824	175284213	1150		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	8894035	67.38		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	5036514	59.67		ug/ml
ortho-Terphenyl (SURR)	11.931	11.931	8717752	50.64		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015328.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:49
Operator : YP\AJ
Sample : PB166218BSD
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 29 00:47:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
PB166218BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.993	8894035	67.379 ug/ml
Spiked Amount	50.000		Recovery =	134.76%
6) S	2-Flurobiphenyl (SURR)	8.866	5036514	59.669 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	119.34%
11) S	ortho-Terphenyl (SURR)	11.931	8717752	50.642 ug/ml
Spiked Amount	50.000		Recovery =	101.28%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.604	6860785	42.772 ug/ml
2) T	Naphthalene (C11.7)	6.271	8352411	52.093 ug/ml
3) T	2-Methylnaphthalene (...	7.366	8276884	52.050 ug/ml
5) T	Acenaphthylene (C15.06)	8.668	9848852	61.982 ug/ml
7) T	Acenaphthene (C15.5)	8.969	10301926	63.178 ug/ml
8) T	Flouorene (C16.55)	9.758	10667883	67.751 ug/ml
9) T	Phenanthrene (C19.36)	11.164	10688075	66.941 ug/ml
10) T	Anthracene (C19.43)	11.241	10674090	72.297 ug/ml
12) T	Fluoranthene (C21.85)	12.987	10809095	65.338 ug/ml
13) T	Pyrene (C20.8)	13.287	10703803	66.082 ug/ml
14) T	Benzo[a]anthracene (C...	15.168	9917954	66.483 ug/ml
15) T	Chrysene (C27.41)	15.214	10932388	70.382 ug/ml
16) T	benzo[b]fluoranthene ...	16.728	9730394	65.752 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.765	9811165	69.391 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.111	9269954	65.244 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.488	10032761	79.620 ug/ml
20) T	Dibenz[a,h]anthracene...	18.526	9219293	62.313 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.748	9625386	71.304 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015328.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:49
Operator : YP\AJ
Sample : PB166218BSD
Misc :
ALS Vial : 65 Sample Multiplier: 1

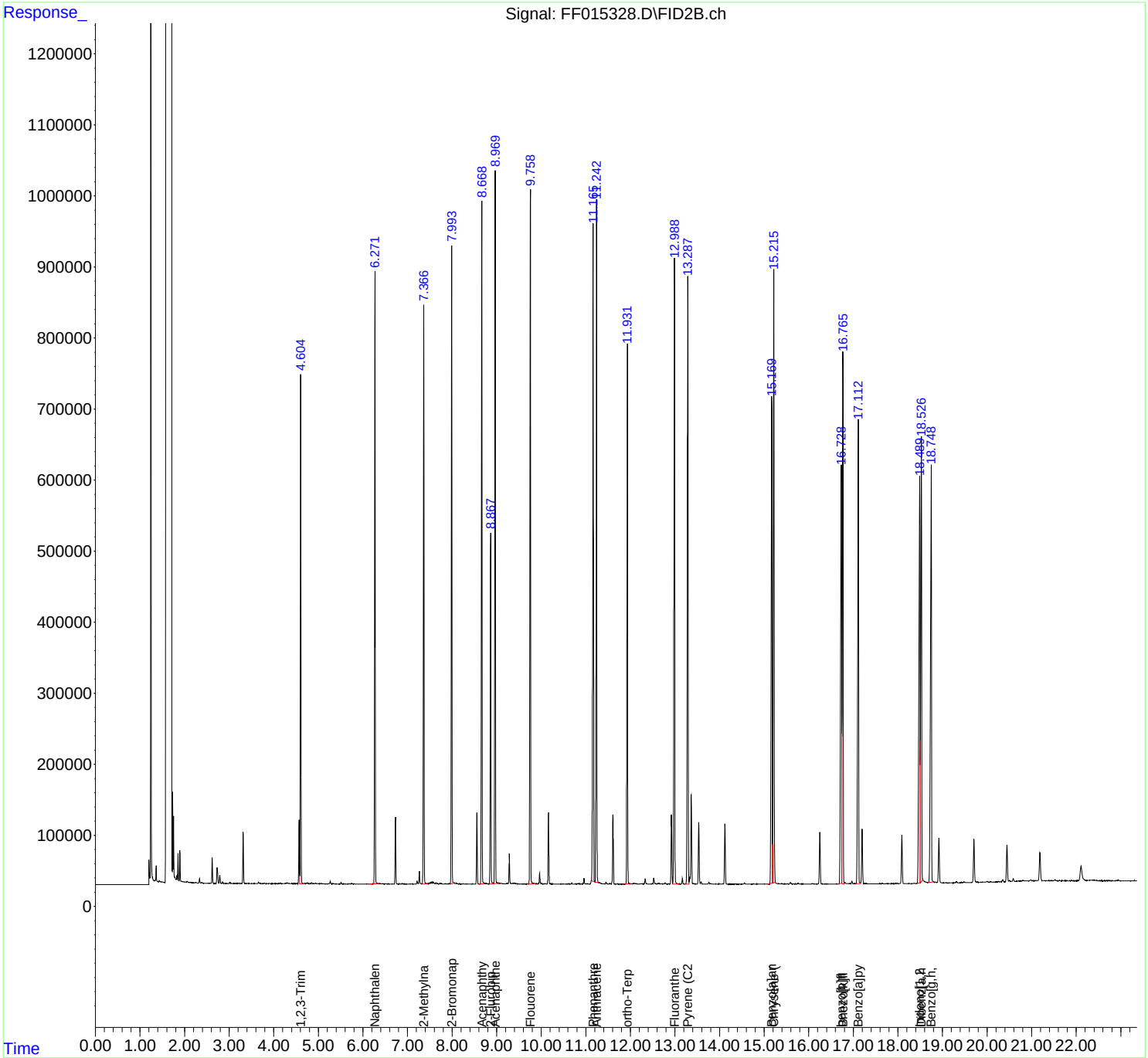
Instrument :
FID_F
ClientSampleId :
PB166218BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Integration File: autoint1.e
Quant Time: Jan 29 00:47:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_F
ClientSampleId :
PB166218BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01282
Data File : FF015328.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:49
Sample : PB166218BSD
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.604	4.583	4.675	VV	714868	6860785	62.76%	3.466%
2	6.271	6.145	6.359	BV	865189	8352411	76.40%	4.220%
3	7.366	7.325	7.464	PB	819063	8276884	75.71%	4.182%
4	7.993	7.960	8.044	PV	891556	8894035	81.35%	4.493%
5	8.668	8.600	8.740	PV	965801	9848852	90.09%	4.976%
6	8.866	8.830	8.935	BV	497838	5036514	46.07%	2.545%
7	8.969	8.935	9.062	VV	999157	10301926	94.23%	5.205%
8	9.758	9.702	9.875	BV	970313	10667883	97.58%	5.390%
9	11.164	11.120	11.205	BV	919877	10688075	97.77%	5.400%
10	11.241	11.205	11.300	PBA	964179	10674090	97.64%	5.393%
11	11.931	11.845	12.010	BB	760737	8717752	79.74%	4.404%
12	12.987	12.946	13.099	VB	880591	10809095	98.87%	5.461%
13	13.287	13.240	13.313	BV	858643	10703803	97.91%	5.408%
14	15.168	15.085	15.187	BV	686092	9917954	90.72%	5.011%
15	15.214	15.187	15.250	VBA	862317	10932388	100.00%	5.523%
16	16.728	16.660	16.744	BV	589940	9730394	89.01%	4.916%
17	16.766	16.744	16.790	VBA	749188	9602091	87.83%	4.851%
18	17.111	17.030	17.161	BV	655175	9269954	84.79%	4.683%
19	18.488	18.392	18.502	PV	568463	10032761	91.77%	5.069%
20	18.526	18.502	18.620	VBA	627757	8989481	82.23%	4.542%
21	18.748	18.680	18.800	BBA	582724	9625386	88.04%	4.863%
			Sum of corrected areas:			197932512		

Aromatic EPH 011425.M Wed Jan 29 01:39:05 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166218BSD	SDG No.:	Q1194
Lab Sample ID:	PB166218BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015185.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.22		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	6.61		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	12.1		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	16.3		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.7		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	50.6		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166218BSD	Acq On:	28 Jan 2025 16:49
Client Sample ID:	PB166218BSD	Operator:	YP\AJ
Data file:	FG015185.D	Misc:	
Instrument:	FID_G	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	14391362	108.296	300	ug/ml
Aliphatic C12-C16	6.821	10.273	14000715	99.148	200	ug/ml
Aliphatic C16-C21	10.274	13.656	26193483	181.246	300	ug/ml
Aliphatic C21-C28	13.657	17.330	33493778	245.003	400	ug/ml
Aliphatic C28-C40	17.331	22.272	43839847	415.188	600	ug/ml
Aliphatic EPH	3.178	22.272	131919185	1050		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.386	13.386	6163834	50.62		ug/ml
Aliphatic C9-C28	3.178	17.330	88079338	633.693	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015185.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:49
Operator : YP\AJ
Sample : PB166218BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166218BSD

Integration File: autoint1.e
Quant Time: Jan 29 02:34:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.386	6163834	50.622 ug/ml
Spiked Amount	50.000		Recovery =	101.24%
	Target Compounds			
1) T	n-Nonane (C9)	3.284	3882539	29.904 ug/ml
2) T	n-Decane (C10)	4.543	4838579	36.410 ug/ml
4) T	n-Dodecane (C12)	6.722	5670244	41.711 ug/ml
6) T	n-Tetradecane (C14)	8.559	6603376	48.016 ug/ml
7) T	n-Hexadecane (C16)	10.175	7397339	51.053 ug/ml
8) T	n-Octadecane (C18)	11.625	8498003	57.176 ug/ml
10) T	n-Eicosane (C20)	12.942	9013642	62.797 ug/ml
11) T	n-Heneicosane (C21)	13.556	8681838	61.402 ug/ml
13) T	n-Docosane (C22)	14.145	8653145	61.544 ug/ml
14) T	n-Tetracosane (C24)	15.253	8514303	61.173 ug/ml
15) T	n-Hexacosane (C26)	16.278	8288902	61.196 ug/ml
16) T	n-Octacosane (C28)	17.230	8037428	61.076 ug/ml
17) T	n-Tricontane (C30)	18.120	7944286	59.886 ug/ml
18) T	n-Dotriacontane (C32)	18.956	7663135	60.759 ug/ml
19) T	n-Tetratriacontane (C34)	19.740	7387709	67.850 ug/ml
20) T	n-Hexatriacontane (C36)	20.481	7029656	75.295 ug/ml
21) T	n-Octatriacontane (C38)	21.231	6915140	78.801 ug/ml
22) T	n-Tetracontane (C40)	22.173	6899921	81.403 ug/ml

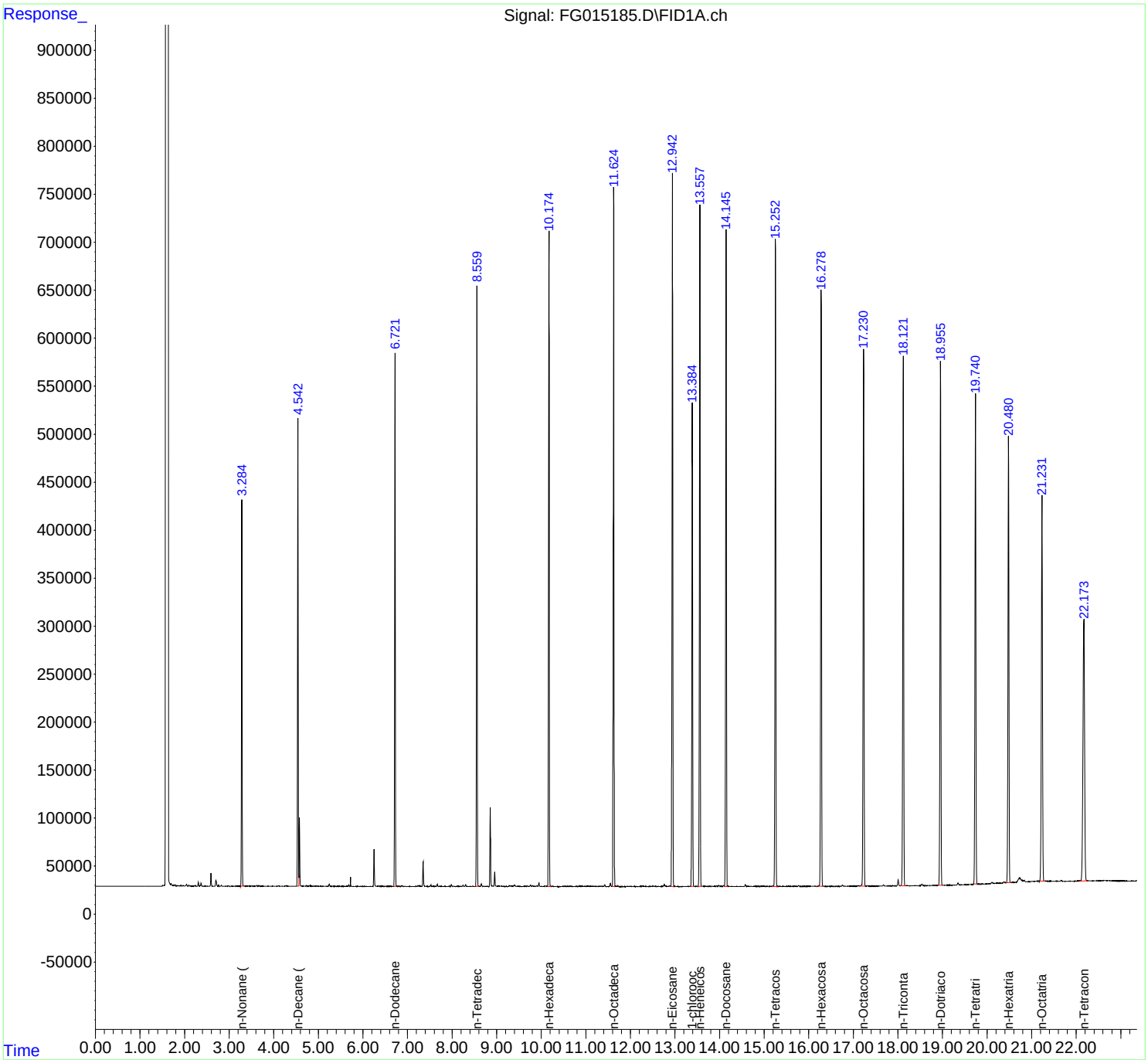
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015185.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:49
Operator : YP\AJ
Sample : PB166218BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
PB166218BSD

Integration File: autoint1.e
Quant Time: Jan 29 02:34:52 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015185.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:49
Sample : PB166218BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.284	3.250	3.328	BB	402902	3882539	43.07%	2.812%
2	4.543	4.508	4.562	BV	487261	4838579	53.68%	3.504%
3	6.722	6.687	6.765	BB	555355	5670244	62.91%	4.106%
4	8.559	8.523	8.604	BB	623893	6603376	73.26%	4.782%
5	10.175	10.136	10.223	BB	678178	7397339	82.07%	5.357%
6	11.625	11.586	11.656	BB	726309	8498003	94.28%	6.154%
7	12.942	12.901	12.987	BB	742650	9013642	100.00%	6.528%
8	13.386	13.347	13.422	BB	498697	6163834	68.38%	4.464%
9	13.556	13.515	13.591	BB	706810	8681838	96.32%	6.287%
10	14.145	14.105	14.190	VB	683592	8653145	96.00%	6.267%
11	15.253	15.174	15.307	BB	673092	8514303	94.46%	6.166%
12	16.278	16.208	16.328	BB	618827	8288902	91.96%	6.003%
13	17.230	17.156	17.286	BB	558918	8037428	89.17%	5.821%
14	18.120	18.053	18.171	BB	541690	7944286	88.14%	5.753%
15	18.956	18.893	19.001	BB	545827	7663135	85.02%	5.550%
16	19.740	19.700	19.793	BB	509700	7387709	81.96%	5.350%
17	20.481	20.425	20.538	BB	465046	7029656	77.99%	5.091%
18	21.231	21.180	21.300	BB	397862	6915140	76.72%	5.008%
19	22.173	22.072	22.272	BB	272659	6899921	76.55%	4.997%

Sum of corrected areas: 138083018

Aliphatic EPH 011425.M Wed Jan 29 03:39:11 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BSD	SDG No.:	Q1194
Lab Sample ID:	PB166219BSD	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
01/28/25 08:31	01/28/25 16:55	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	193		1	5.76	30.0	ug/l	FC068135.D
Aliphatic C12-C16	Aliphatic C12-C16	177		1	3.61	20.0	ug/l	FC068135.D
Aliphatic C16-C21	Aliphatic C16-C21	297		1	5.14	30.0	ug/l	FC068135.D
Aliphatic C21-C28	Aliphatic C21-C28	396		1	8.97	40.0	ug/l	FC068135.D
Aliphatic C28-C40	Aliphatic C28-C40	647		1	17.0	60.0	ug/l	FC068135.D
Aromatic C10-C12	Aromatic C10-C12	195		1	3.32	20.0	ug/l	FD048969.D
Aromatic C12-C16	Aromatic C12-C16	331		1	3.69	30.0	ug/l	FD048969.D
Aromatic C16-C21	Aromatic C16-C21	661		1	12.7	50.0	ug/l	FD048969.D
Aromatic C21-C36	Aromatic C21-C36	1070		1	25.2	80.0	ug/l	FD048969.D
Total AliphaticEPH	Total AliphaticEPH	1710			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2260			44.9	180	ug/l	
Total EPH	Total EPH	3970			85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BSD	SDG No.:	Q1194
Lab Sample ID:	PB166219BSD	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
01/28/25 08:31	01/28/25 16:55	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	193		1	5.76	30.0	ug/l	FC068135.D
Aliphatic C12-C16	Aliphatic C12-C16	177		1	3.61	20.0	ug/l	FC068135.D
Aliphatic C16-C21	Aliphatic C16-C21	297		1	5.14	30.0	ug/l	FC068135.D
Aliphatic C21-C28	Aliphatic C21-C28	396		1	8.97	40.0	ug/l	FC068135.D
Aliphatic C28-C40	Aliphatic C28-C40	647		1	17.0	60.0	ug/l	FC068135.D
Aromatic C10-C12	Aromatic C10-C12	195		1	3.32	20.0	ug/l	FD048969.D
Aromatic C12-C16	Aromatic C12-C16	331		1	3.69	30.0	ug/l	FD048969.D
Aromatic C16-C21	Aromatic C16-C21	661		1	12.7	50.0	ug/l	FD048969.D
Aromatic C21-C36	Aromatic C21-C36	1070		1	25.2	80.0	ug/l	FD048969.D
Total AliphaticEPH	Total AliphaticEPH	1710			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2260			44.9	180	ug/l	
Total EPH	Total EPH	3970			85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166219BSD	SDG No.:	Q1194
Lab Sample ID:	PB166219BSD	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
01/28/25 08:31	01/28/25 16:55	PB166219

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	193		1	5.76	30.0	ug/l	FC068135.D
Aliphatic C12-C16	Aliphatic C12-C16	177		1	3.61	20.0	ug/l	FC068135.D
Aliphatic C16-C21	Aliphatic C16-C21	297		1	5.14	30.0	ug/l	FC068135.D
Aliphatic C21-C28	Aliphatic C21-C28	396		1	8.97	40.0	ug/l	FC068135.D
Aliphatic C28-C40	Aliphatic C28-C40	647		1	17.0	60.0	ug/l	FC068135.D
Aromatic C10-C12	Aromatic C10-C12	195		1	3.32	20.0	ug/l	FD048969.D
Aromatic C12-C16	Aromatic C12-C16	331		1	3.69	30.0	ug/l	FD048969.D
Aromatic C16-C21	Aromatic C16-C21	661		1	12.7	50.0	ug/l	FD048969.D
Aromatic C21-C36	Aromatic C21-C36	1070		1	25.2	80.0	ug/l	FD048969.D
Total AliphaticEPH	Total AliphaticEPH	1710			40.5	180	ug/l	
Total AromaticEPH	Total AromaticEPH	2260			44.9	180	ug/l	
Total EPH	Total EPH	3970			85.4	360	ug/l	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166219BSD		SDG No.:	Q1194	
Lab Sample ID:	PB166219BSD		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
FC068135.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	193		5.76	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	177		3.61	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	297		5.14	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	396		8.97	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	647		17.0	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166219BSD	Acq On:	28 Jan 2025 16:55
Client Sample ID:	PB166219BSD	Operator:	YP/AJ
Data file:	FC068135.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.129	6.397	13399710	96.757	300	ug/ml
Aliphatic C12-C16	6.398	9.782	12196596	88.565	200	ug/ml
Aliphatic C16-C21	9.783	13.137	20055450	148.538	300	ug/ml
Aliphatic C21-C28	13.138	16.791	25217665	198.24	400	ug/ml
Aliphatic C28-C40	16.792	21.605	33539753	323.621	600	ug/ml
Aliphatic EPH	3.129	21.605	104409174	855.722		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.868	12.868	4449518	38.69		ug/ml
Aliphatic C9-C28	3.129	16.791	70869421	532.1	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068135.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:55
Operator : YP/AJ
Sample : PB166219BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166219BSD

Integration File: autoint1.e
Quant Time: Jan 29 00:45:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.868	4449518	38.690 ug/ml
Spiked Amount	50.000		Recovery =	77.38%
	Target Compounds			
1) T	n-Nonane (C9)	3.232	3698596	27.010 ug/ml
2) T	n-Decane (C10)	4.290	4519982	32.557 ug/ml
4) T	n-Dodecane (C12)	6.299	5181132	37.088 ug/ml
6) T	n-Tetradecane (C14)	8.089	5847833	42.848 ug/ml
7) T	n-Hexadecane (C16)	9.684	6348763	45.692 ug/ml
8) T	n-Octadecane (C18)	11.122	6641515	47.468 ug/ml
10) T	n-Eicosane (C20)	12.429	6856290	51.242 ug/ml
11) T	n-Heneicosane (C21)	13.039	6557645	49.929 ug/ml
13) T	n-Docosane (C22)	13.624	6518164	50.320 ug/ml
14) T	n-Tetracosane (C24)	14.724	6389113	49.765 ug/ml
15) T	n-Hexacosane (C26)	15.743	6230013	49.509 ug/ml
16) T	n-Octacosane (C28)	16.690	6080375	48.615 ug/ml
17) T	n-Tricontane (C30)	17.576	6089096	47.109 ug/ml
18) T	n-Dotriacontane (C32)	18.407	5961117	47.684 ug/ml
19) T	n-Tetratriacontane (C34)	19.190	5800339	53.471 ug/ml
20) T	n-Hexatriacontane (C36)	19.928	5455685	58.953 ug/ml
21) T	n-Octatriacontane (C38)	20.643	5204768	60.741 ug/ml
22) T	n-Tetracontane (C40)	21.504	5028748	62.191 ug/ml

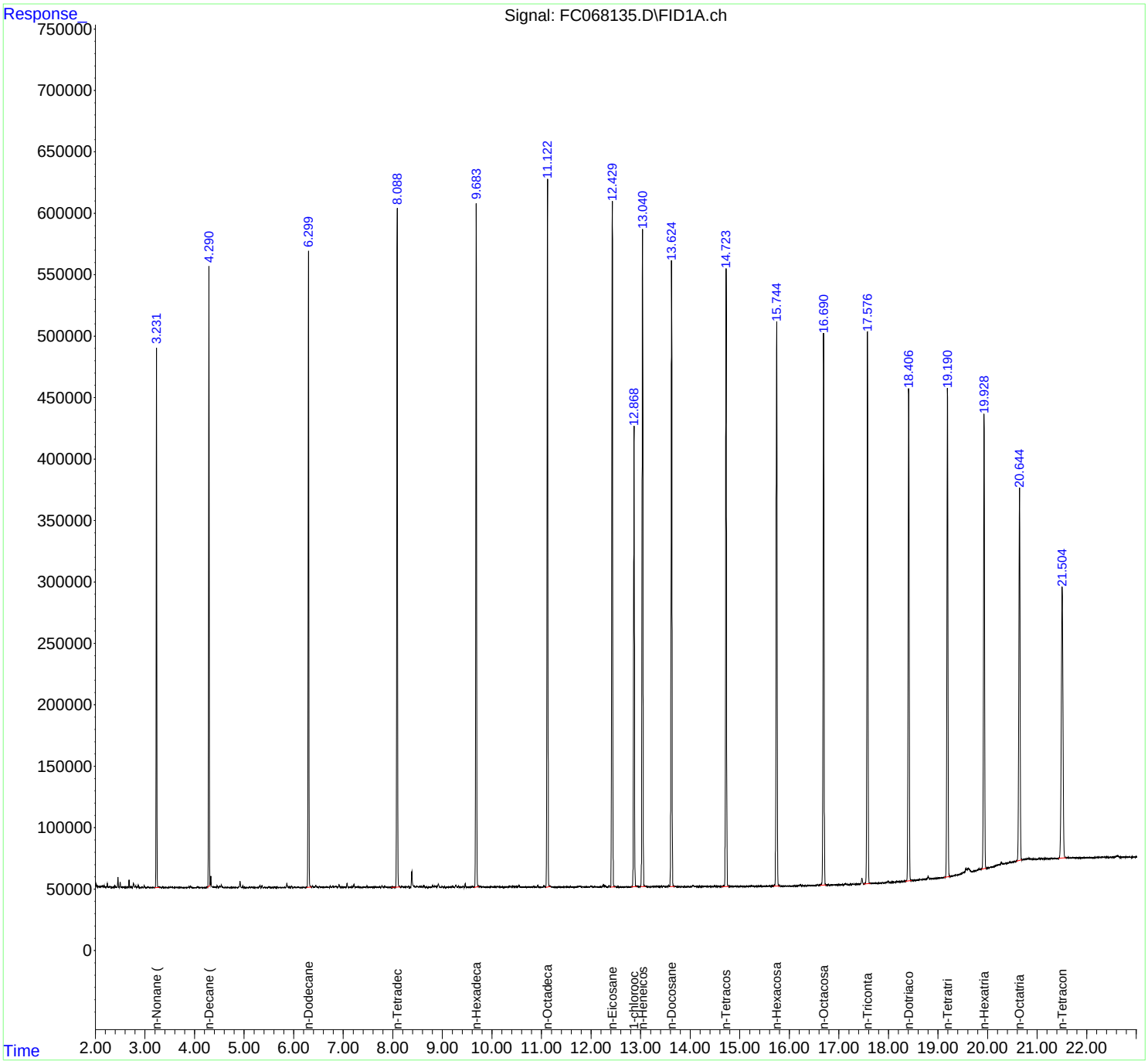
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068135.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:55
Operator : YP/AJ
Sample : PB166219BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166219BSD

Integration File: autoint1.e
Quant Time: Jan 29 00:45:03 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012825AL\
Data File : FC068135.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 16:55
Sample : PB166219BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.232	3.194	3.294	BB	438635	3698596	53.94%	3.398%
2	4.290	4.254	4.315	BV	505916	4519982	65.92%	4.152%
3	6.299	6.261	6.361	BB	524323	5181132	75.57%	4.760%
4	8.089	7.964	8.151	BB	547450	5847833	85.29%	5.372%
5	9.684	9.641	9.741	BB	555871	6348763	92.60%	5.832%
6	11.122	11.081	11.184	BB	572446	6641515	96.87%	6.101%
7	12.429	12.388	12.491	PB	556110	6856290	100.00%	6.298%
8	12.868	12.811	12.921	BB	374036	4449518	64.90%	4.087%
9	13.039	12.998	13.101	BB	532093	6557645	95.64%	6.024%
10	13.624	13.584	13.684	BB	509955	6518164	95.07%	5.988%
11	14.724	14.634	14.784	BB	503232	6389113	93.19%	5.869%
12	15.743	15.671	15.804	BB	461585	6230013	90.87%	5.723%
13	16.690	16.618	16.751	BB	446963	6080375	88.68%	5.586%
14	17.576	17.504	17.638	BB	447161	6089096	88.81%	5.594%
15	18.407	18.341	18.471	BB	399494	5961117	86.94%	5.476%
16	19.190	19.121	19.241	BB	401107	5800339	84.60%	5.328%
17	19.928	19.871	19.971	BB	368295	5455685	79.57%	5.012%
18	20.643	20.581	20.691	BB	302335	5204768	75.91%	4.781%
19	21.504	21.431	21.581	BB	220424	5028748	73.35%	4.620%

Sum of corrected areas: 108858689

Aliphatic EPH 012425.M Wed Jan 29 02:07:13 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:		
Project:	Amtrak Sawtooth Bridges 2025		Date Received:		
Client Sample ID:	PB166219BSD		SDG No.:	Q1194	
Lab Sample ID:	PB166219BSD		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
FD048969.D	1	01/28/25	01/28/25	PB166219

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	195		3.32	20.0	ug/l
Aromatic C12-C16	Aromatic C12-C16	331		3.69	30.0	ug/l
Aromatic C16-C21	Aromatic C16-C21	661		12.7	50.0	ug/l
Aromatic C21-C36	Aromatic C21-C36	1070		25.2	80.0	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.0		40 - 140	116%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.2		40 - 140	124%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.1		40 - 140	98%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB166219BSD	Acq On:	28 Jan 2025 16:55
Client Sample ID:	PB166219BSD	Operator:	YP/AJ
Data file:	FD048969.D	Misc:	
Instrument:	FID_D	ALS Vial:	63
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.075	5.794	15142688	97.55	200	ug/ml
Aromatic C12-C16	5.795	8.400	26920976	165.962	300	ug/ml
Aromatic C16-C21	8.401	12.666	51121780	330.568	500	ug/ml
Aromatic C21-C36	12.667	18.077	76213176	534.818	800	ug/ml
Aromatic EPH	4.075	18.077	169398620	1130		ug/ml
ortho-Terphenyl (SURR)	11.244	11.244	8077333	49.12		ug/ml
2-Bromonaphthalene (SURR)	7.358	7.358	8254516	58		ug/ml
2-Flurobiphenyl (SURR)	8.209	8.209	5291934	62.19		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048969.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:55
Operator : YP/AJ
Sample : PB166219BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166219BSD

Integration File: autoint1.e
Quant Time: Jan 29 02:11:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.358	8254516	57.999 ug/ml
Spiked Amount	50.000		Recovery =	116.00%
6) S	2-Flurobiphenyl (SURR)	8.209	5291934	62.194 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	124.39%
11) S	ortho-Terphenyl (SURR)	11.244	8077333	49.117 ug/ml
Spiked Amount	50.000		Recovery =	98.23%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.181	7159022	46.443 ug/ml
2) T	Naphthalene (C11.7)	5.698	7983666	51.074 ug/ml
3) T	2-Methylnaphthalene (...	6.745	7913402	51.011 ug/ml
5) T	Acenaphthylene (C15.06)	8.011	9166688	56.051 ug/ml
7) T	Acenaphthene (C15.5)	8.307	9840886	58.590 ug/ml
8) T	Flouorene (C16.55)	9.086	9927555	63.463 ug/ml
9) T	Phenanthrene (C19.36)	10.474	10148967	66.637 ug/ml
10) T	Anthracene (C19.43)	10.549	10277016	67.467 ug/ml
12) T	Fluoranthene (C21.85)	12.280	10443614	66.395 ug/ml
13) T	Pyrene (C20.8)	12.573	10324628	65.539 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	9850405	76.550 ug/ml
15) T	Chrysene (C27.41)	14.488	9711801	57.433 ug/ml
16) T	benzo[b]fluoranthene ...	15.995	9751561	71.371 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.029	9952112	61.449 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.371	9383696	67.422 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.740	9238678	88.585 ug/ml
20) T	Dibenz[a,h]anthracene...	17.775	9123557	63.910 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.992	9201366	64.508 ug/ml

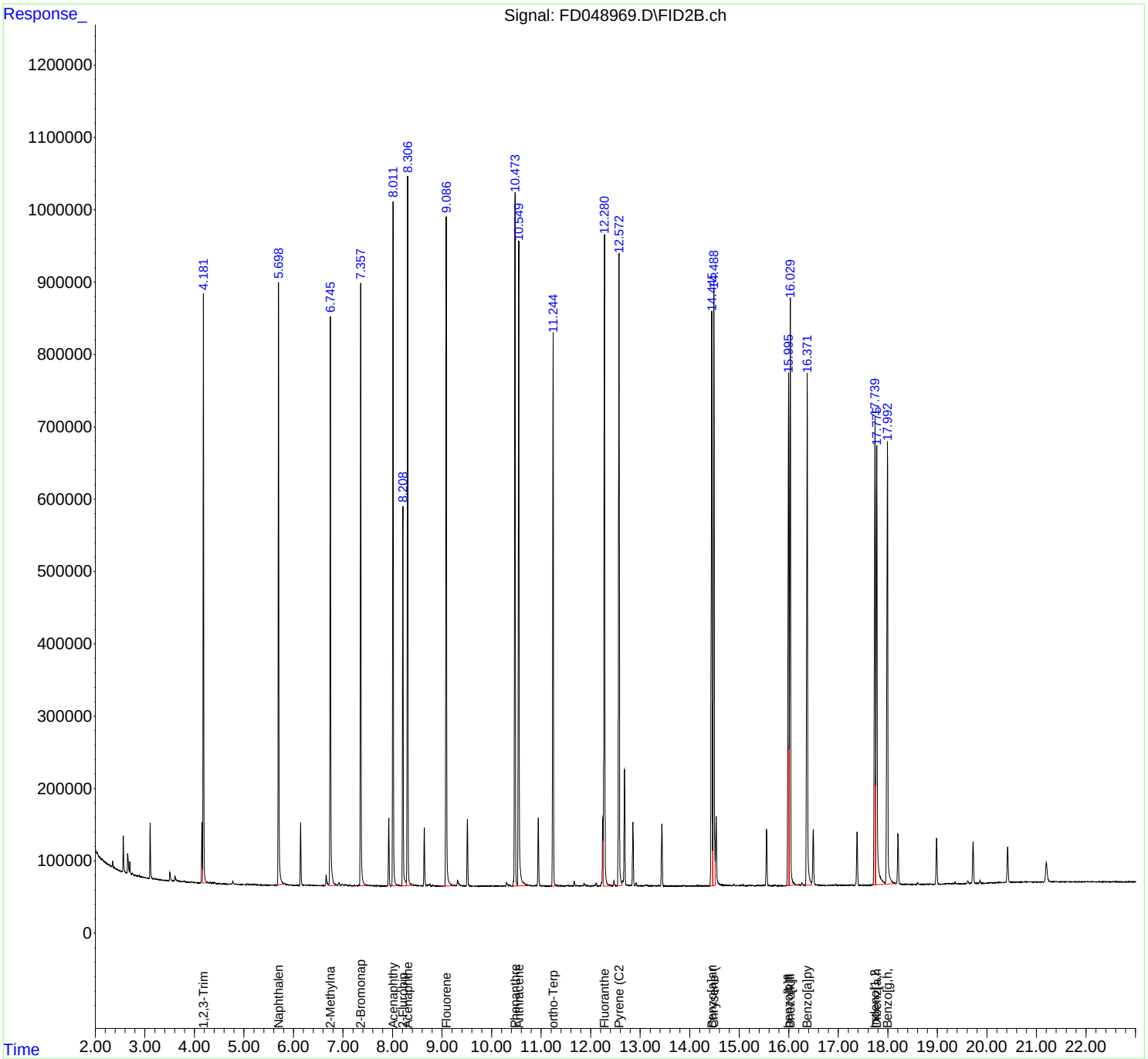
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048969.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:55
Operator : YP/AJ
Sample : PB166219BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB166219BSD

Integration File: autoint1.e
Quant Time: Jan 29 02:11:21 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 03:38:15 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD012825AR\
Data File : FD048969.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 16:55
Sample : PB166219BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 012425.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	4.181	4.164	4.300	VV	813337	7159022	68.55%	3.748%
2	5.698	5.649	5.810	BV	832483	7983666	76.45%	4.179%
3	6.745	6.715	6.887	VV	787729	7913402	75.77%	4.143%
4	7.358	7.332	7.517	VB	833854	8254516	79.04%	4.321%
5	8.011	7.960	8.110	BV	947100	9166688	87.77%	4.799%
6	8.209	8.182	8.277	BV	525585	5291934	50.67%	2.770%
7	8.307	8.277	8.408	VV	982064	9840886	94.23%	5.152%
8	9.086	8.947	9.234	BV	924464	9927555	95.06%	5.197%
9	10.474	10.409	10.519	BV	957952	10148967	97.18%	5.313%
10	10.549	10.519	10.769	VB	888904	10277016	98.40%	5.380%
11	11.244	11.184	11.339	BB	763730	8077333	77.34%	4.228%
12	12.280	12.255	12.424	VB	899690	10443614	100.00%	5.467%
13	12.573	12.520	12.632	BV	877229	10324628	98.86%	5.405%
14	14.445	14.377	14.462	BV	796642	9850405	94.32%	5.157%
15	14.488	14.462	14.513	VV	826119	9711801	92.99%	5.084%
16	15.995	15.930	16.008	BV	710336	9751561	93.37%	5.105%
17	16.029	16.008	16.170	VB	815776	9952112	95.29%	5.210%
18	16.371	16.322	16.459	BV	710892	9383696	89.85%	4.912%
19	17.740	17.690	17.753	BV	647339	9238678	88.46%	4.836%
20	17.775	17.753	17.945	VV	607523	9123557	87.36%	4.776%
21	17.992	17.945	18.169	VV	611489	9201366	88.11%	4.817%

Sum of corrected areas: 191022404

Aromatic EPH 012425.M Wed Jan 29 02:48:44 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MS	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 19:40	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.38		1	0.43	1.13	mg/kg	FG015191.D
Aliphatic C12-C16	Aliphatic C12-C16	7.50		1	0.27	0.75	mg/kg	FG015191.D
Aliphatic C16-C21	Aliphatic C16-C21	11.2		1	0.34	1.13	mg/kg	FG015191.D
Aliphatic C21-C28	Aliphatic C21-C28	14.6		1	0.90	1.51	mg/kg	FG015191.D
Aliphatic C28-C40	Aliphatic C28-C40	24.3		1	2.03	2.26	mg/kg	FG015191.D
Aromatic C10-C12	Aromatic C10-C12	6.80		1	0.34	0.75	mg/kg	FF015334.D
Aromatic C12-C16	Aromatic C12-C16	14.3		1	0.38	1.13	mg/kg	FF015334.D
Aromatic C16-C21	Aromatic C16-C21	25.6		1	1.08	1.88	mg/kg	FF015334.D
Aromatic C21-C36	Aromatic C21-C36	32.6		1	2.26	3.01	mg/kg	FF015334.D
Total AliphaticEPH	Total AliphaticEPH	66.0			3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	79.3			4.06	6.77	mg/kg	
Total EPH	Total EPH	145			8.04	13.6	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MS	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 19:40	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.38		1	0.43	1.13	mg/kg	FG015191.D
Aliphatic C12-C16	Aliphatic C12-C16	7.50		1	0.27	0.75	mg/kg	FG015191.D
Aliphatic C16-C21	Aliphatic C16-C21	11.2		1	0.34	1.13	mg/kg	FG015191.D
Aliphatic C21-C28	Aliphatic C21-C28	14.6		1	0.90	1.51	mg/kg	FG015191.D
Aliphatic C28-C40	Aliphatic C28-C40	24.3		1	2.03	2.26	mg/kg	FG015191.D
Aromatic C10-C12	Aromatic C10-C12	6.80		1	0.34	0.75	mg/kg	FF015334.D
Aromatic C12-C16	Aromatic C12-C16	14.3		1	0.38	1.13	mg/kg	FF015334.D
Aromatic C16-C21	Aromatic C16-C21	25.6		1	1.08	1.88	mg/kg	FF015334.D
Aromatic C21-C36	Aromatic C21-C36	32.6		1	2.26	3.01	mg/kg	FF015334.D
Total AliphaticEPH	Total AliphaticEPH	66.0			3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	79.3			4.06	6.77	mg/kg	
Total EPH	Total EPH	145			8.04	13.6	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MS	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 19:40	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.38		1	0.43	1.13	mg/kg	FG015191.D
Aliphatic C12-C16	Aliphatic C12-C16	7.50		1	0.27	0.75	mg/kg	FG015191.D
Aliphatic C16-C21	Aliphatic C16-C21	11.2		1	0.34	1.13	mg/kg	FG015191.D
Aliphatic C21-C28	Aliphatic C21-C28	14.6		1	0.90	1.51	mg/kg	FG015191.D
Aliphatic C28-C40	Aliphatic C28-C40	24.3		1	2.03	2.26	mg/kg	FG015191.D
Aromatic C10-C12	Aromatic C10-C12	6.80		1	0.34	0.75	mg/kg	FF015334.D
Aromatic C12-C16	Aromatic C12-C16	14.3		1	0.38	1.13	mg/kg	FF015334.D
Aromatic C16-C21	Aromatic C16-C21	25.6		1	1.08	1.88	mg/kg	FF015334.D
Aromatic C21-C36	Aromatic C21-C36	32.6		1	2.26	3.01	mg/kg	FF015334.D
Total AliphaticEPH	Total AliphaticEPH	66.0			3.97	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	79.3			4.06	6.77	mg/kg	
Total EPH	Total EPH	145			8.04	13.6	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MS	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015334.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.80		0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	14.3		0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	25.6		1.08	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	32.6		2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	54.1		40 - 140	108%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	54.3		40 - 140	109%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.2		40 - 140	70%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-01MS	Acq On:	28 Jan 2025 19:40
Client Sample ID:	Q1194-01MS	Operator:	YP\AJ
Data file:	FF015334.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	14492019	90.367	200	ug/ml
Aromatic C12-C16	6.356	9.053	30486200	190.151	300	ug/ml
Aromatic C16-C21	9.054	13.372	53272819	339.999	500	ug/ml
Aromatic C21-C36	13.373	18.824	63071614	433.201	800	ug/ml
Aromatic EPH	4.485	18.824	161322652	1050		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7140254	54.09		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4584114	54.31		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	6065574	35.24		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015334.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 19:40
Operator : YP\AJ
Sample : Q1194-01MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 29 00:49:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.993	7140254	54.093 ug/ml
Spiked Amount	50.000		Recovery =	108.19%
6) S	2-Flurobiphenyl (SURR)	8.866	4584114	54.309 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	108.62%
11) S	ortho-Terphenyl (SURR)	11.929	6065574	35.236 ug/ml
Spiked Amount	50.000		Recovery =	70.47%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.604	6180634	38.532 ug/ml
2) T	Naphthalene (C11.7)	6.271	7136326	44.509 ug/ml
3) T	2-Methylnaphthalene (...	7.366	6946332	43.683 ug/ml
5) T	Acenaphthylene (C15.06)	8.668	7812675	49.167 ug/ml
7) T	Acenaphthene (C15.5)	8.968	8217120	50.393 ug/ml
8) T	Flouorene (C16.55)	9.757	8180501	51.954 ug/ml
9) T	Phenanthrene (C19.36)	11.162	7905446	49.513 ug/ml
10) T	Anthracene (C19.43)	11.238	7910996	53.582 ug/ml
12) T	Fluoranthene (C21.85)	12.984	7933218	47.954 ug/ml
13) T	Pyrene (C20.8)	13.283	7792479	48.108 ug/ml
14) T	Benzo[a]anthracene (C...	15.164	7162559	48.013 ug/ml
15) T	Chrysene (C27.41)	15.210	8024915	51.664 ug/ml
16) T	benzo[b]fluoranthene ...	16.725	7056691	47.685 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.761	7006258	49.553 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	17.107	6734227	47.397 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.481	7350672	58.335 ug/ml
20) T	Dibenz[a,h]anthracene...	18.520	6622747	44.763 ug/mlm
21) T	Benzo[g,h,i]perylene ...	18.740	7004278	51.887 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015334.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 19:40
Operator : YP\AJ
Sample : Q1194-01MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

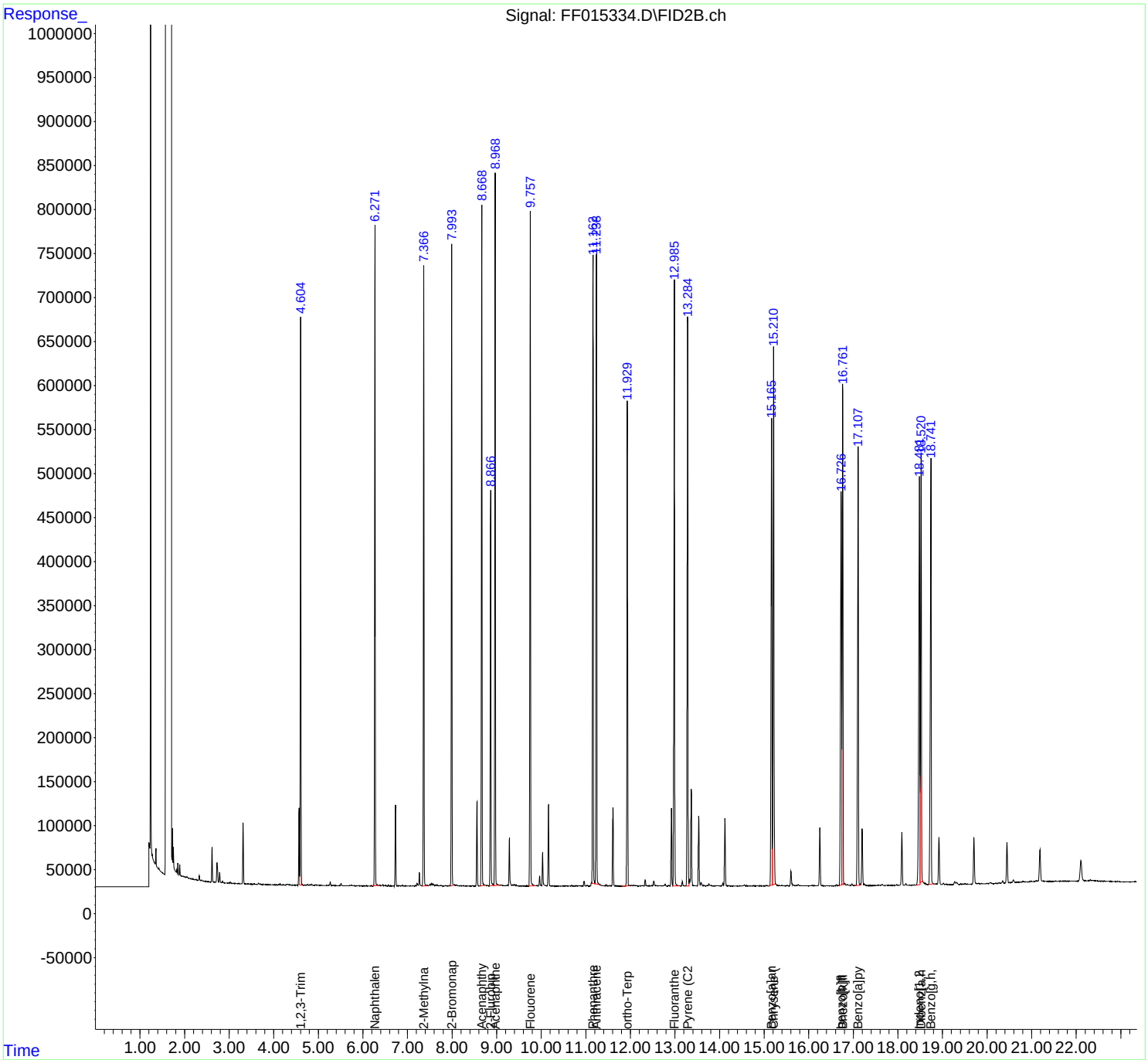
Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Integration File: autoint1.e
Quant Time: Jan 29 00:49:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01282
Data File : FF015334.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 19:40
Sample : Q1194-01MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.439	4.466	PV	186	2067	0.02%	0.001%
2	4.469	4.466	4.493	VV	114	1200	0.01%	0.001%
3	4.513	4.493	4.537	VV	255	3867	0.05%	0.002%
4	4.568	4.537	4.583	VV	88168	854190	10.33%	0.507%
5	4.604	4.583	4.670	VV	646229	6187593	74.80%	3.672%
6	4.691	4.670	4.719	VV	571	8772	0.11%	0.005%
7	4.757	4.719	4.776	VV	1258	18398	0.22%	0.011%
8	4.788	4.776	4.802	VV	268	2828	0.03%	0.002%
9	4.818	4.802	4.836	VV	967	10483	0.13%	0.006%
10	4.852	4.836	4.883	VV	1680	18577	0.22%	0.011%
11	4.887	4.883	4.915	VV	179	2239	0.03%	0.001%
12	4.941	4.915	4.969	VV	673	13835	0.17%	0.008%
13	4.981	4.969	5.021	VV	498	8872	0.11%	0.005%
14	5.028	5.021	5.031	VV	198	1183	0.01%	0.001%
15	5.034	5.031	5.040	VV	194	1002	0.01%	0.001%
16	5.060	5.040	5.101	VV	611	9518	0.12%	0.006%
17	5.107	5.101	5.133	VV	106	1553	0.02%	0.001%
18	5.183	5.166	5.207	VV	255	3249	0.04%	0.002%
19	5.245	5.207	5.250	VV	653	8746	0.11%	0.005%
20	5.268	5.250	5.304	VV	4098	48244	0.58%	0.029%
21	5.330	5.304	5.369	VV	785	10522	0.13%	0.006%
22	5.383	5.369	5.442	VV	188	3120	0.04%	0.002%
23	5.475	5.442	5.491	PV	269	2657	0.03%	0.002%
24	5.510	5.491	5.551	VV	2682	31151	0.38%	0.018%
25	5.568	5.558	5.574	VV	165	1245	0.02%	0.001%
26	5.579	5.574	5.596	VV	191	1618	0.02%	0.001%
27	5.614	5.596	5.626	VV	134	1521	0.02%	0.001%
28	5.661	5.647	5.686	VV	235	3109	0.04%	0.002%
29	5.704	5.686	5.725	VV	699	8205	0.10%	0.005%
30	5.747	5.725	5.772	VV	1319	14788	0.18%	0.009%
31	5.776	5.772	5.794	VV	102	1388	0.02%	0.001%
32	5.809	5.794	5.859	VV	340	5963	0.07%	0.004%
33	5.897	5.871	5.932	VV	258	5570	0.07%	0.003%
34	5.954	5.932	5.981	VV	247	4349	0.05%	0.003%
35	6.014	5.992	6.047	VV	258	4603	0.06%	0.003%
36	6.054	6.047	6.069	VV	196	1814	0.02%	0.001%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual IntegrationsAPPROVED

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				rteres				
37	6.075	6.069	6.102	VV	205	2677	0.03%	0.002%
38	6.112	6.102	6.124	VV	173	1338	0	
39	6.137	6.132	6.152	VV	112	1172	0	
40	6.171	6.152	6.186	VV	208	3002	0	
41	6.189	6.186	6.209	VV	219	2718	0	
42	6.218	6.209	6.228	VV	316	2734	0	
43	6.233	6.228	6.237	VV	261	1236	0.01%	0.001%
44	6.271	6.237	6.362	VV	749950	7172370	86.70%	4.257%
45	6.378	6.362	6.416	VV	1203	23290	0.28%	0.014%
46	6.447	6.416	6.477	VV	1603	27127	0.33%	0.016%
47	6.483	6.477	6.489	VV	362	2273	0.03%	0.001%
48	6.521	6.489	6.557	VV	542	15705	0.19%	0.009%
49	6.575	6.557	6.593	VV	1145	14504	0.18%	0.009%
50	6.597	6.593	6.604	VV	288	1749	0.02%	0.001%
51	6.609	6.604	6.633	VV	281	3787	0.05%	0.002%
52	6.650	6.633	6.655	VV	246	2468	0.03%	0.001%
53	6.660	6.655	6.677	VV	204	2181	0.03%	0.001%
54	6.682	6.677	6.702	VV	200	2296	0.03%	0.001%
55	6.732	6.702	6.791	VV	92030	954390	11.54%	0.566%
56	6.818	6.791	6.837	VV	707	10142	0.12%	0.006%
57	6.853	6.837	6.868	VV	476	5542	0.07%	0.003%
58	6.886	6.868	6.909	VV	1208	14279	0.17%	0.008%
59	6.920	6.909	6.937	VV	374	3798	0.05%	0.002%
60	6.960	6.937	6.985	VV	650	6928	0.08%	0.004%
61	7.001	6.985	7.024	PV	180	2480	0.03%	0.001%
62	7.065	7.037	7.090	VV	321	4878	0.06%	0.003%
63	7.119	7.090	7.134	VV	303	4666	0.06%	0.003%
64	7.137	7.134	7.166	VV	227	2021	0.02%	0.001%
65	7.186	7.166	7.200	VV	607	7024	0.08%	0.004%
66	7.217	7.200	7.248	VV	3223	47059	0.57%	0.028%
67	7.268	7.248	7.324	VV	15632	172185	2.08%	0.102%
68	7.366	7.324	7.441	VV	703659	6973837	84.30%	4.139%
69	7.453	7.441	7.466	VV	858	11485	0.14%	0.007%
70	7.479	7.466	7.489	VV	659	8656	0.10%	0.005%
71	7.503	7.489	7.517	VV	2090	22365	0.27%	0.013%
72	7.534	7.517	7.549	VV	3129	38205	0.46%	0.023%
73	7.565	7.549	7.580	VV	2926	36862	0.45%	0.022%
74	7.591	7.580	7.626	VV	1976	30971	0.37%	0.018%
75	7.642	7.626	7.660	VV	1887	22195	0.27%	0.013%
76	7.676	7.660	7.699	VV	1455	18479	0.22%	0.011%
77	7.715	7.699	7.720	VV	435	3771	0.05%	0.002%
78	7.738	7.720	7.754	VV	973	13790	0.17%	0.008%
79	7.768	7.754	7.799	VV	821	10845	0.13%	0.006%
80	7.803	7.799	7.822	VV	117	1214	0.01%	0.001%
81	7.852	7.822	7.877	VV	856	12084	0.15%	0.007%
82	7.893	7.877	7.906	VV	412	5129	0.06%	0.003%
83	7.911	7.906	7.923	VV	379	3215	0.04%	0.002%
84	7.942	7.923	7.960	VV	1095	13202	0.16%	0.008%
85	7.993	7.960	8.041	VV	728653	7174853	86.73%	4.258%
86	8.051	8.041	8.074	VV	1535	23829	0.29%	0.014%
87	8.092	8.074	8.149	VV	1251	38405	0.46%	0.023%
88	8.168	8.149	8.194	VV	522	9679	0.12%	0.006%
89	8.210	8.194	8.229	VV	356	5190	0.06%	0.003%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual IntegrationsAPPROVED

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rteres

90	8.253	8.229	8.276	VV	774	10958	0.13%	0.007%
91	8.293	8.276	8.298	VV	244	2549		
92	8.309	8.298	8.329	VV	321	4317		
93	8.338	8.329	8.356	VV	278	3580		
94	8.363	8.356	8.369	VV	194	1235		
95	8.374	8.369	8.401	VV	153	2133		
96	8.457	8.424	8.489	VV	507	9853	0.12%	0.006%
97	8.494	8.489	8.523	VV	197	2522	0.03%	0.001%
98	8.560	8.523	8.607	VV	96135	1008176	12.19%	0.598%
99	8.624	8.607	8.633	VV	232	3011	0.04%	0.002%
100	8.668	8.633	8.742	VV	777627	7852341	94.92%	4.660%
101	8.752	8.742	8.779	VV	1202	20499	0.25%	0.012%
102	8.794	8.779	8.824	VV	1104	19237	0.23%	0.011%
103	8.829	8.824	8.833	VV	378	1960	0.02%	0.001%
104	8.867	8.833	8.911	VV	448165	4587406	55.45%	2.722%
105	8.919	8.911	8.935	VV	2374	30892	0.37%	0.018%
106	8.968	8.935	9.041	VV	811390	8272601	100.00%	4.910%
107	9.046	9.041	9.064	VV	1424	18750	0.23%	0.011%
108	9.074	9.064	9.089	VV	1463	20360	0.25%	0.012%
109	9.098	9.089	9.107	VV	1364	14224	0.17%	0.008%
110	9.118	9.107	9.149	VV	1350	23250	0.28%	0.014%
111	9.163	9.149	9.189	VV	700	13105	0.16%	0.008%
112	9.197	9.189	9.204	VV	494	4153	0.05%	0.002%
113	9.215	9.204	9.223	VV	652	6649	0.08%	0.004%
114	9.242	9.223	9.260	VV	1527	21360	0.26%	0.013%
115	9.287	9.260	9.334	VV	54763	610941	7.39%	0.363%
116	9.339	9.334	9.348	VV	931	7119	0.09%	0.004%
117	9.364	9.348	9.380	VV	1806	23183	0.28%	0.014%
118	9.402	9.380	9.423	VV	1994	33564	0.41%	0.020%
119	9.437	9.423	9.461	VV	1511	20389	0.25%	0.012%
120	9.474	9.461	9.506	VV	603	7900	0.10%	0.005%
121	9.523	9.506	9.556	VV	389	5959	0.07%	0.004%
122	9.574	9.556	9.592	VV	555	7781	0.09%	0.005%
123	9.607	9.592	9.657	VV	470	9522	0.12%	0.006%
124	9.689	9.657	9.719	VV	416	9803	0.12%	0.006%
125	9.757	9.719	9.876	VV	768528	8209112	99.23%	4.872%
126	9.893	9.876	9.927	VV	767	18302	0.22%	0.011%
127	9.966	9.927	9.992	VV	11738	142931	1.73%	0.085%
128	10.001	9.992	10.009	VV	944	8361	0.10%	0.005%
129	10.033	10.009	10.130	VV	38708	466253	5.64%	0.277%
130	10.164	10.130	10.200	VV	92810	1028195	12.43%	0.610%
131	10.205	10.200	10.223	VV	339	4425	0.05%	0.003%
132	10.239	10.223	10.304	VV	411	12169	0.15%	0.007%
133	10.319	10.304	10.327	VV	203	2257	0.03%	0.001%
134	10.332	10.327	10.356	VV	207	2412	0.03%	0.001%
135	10.366	10.356	10.384	VV	246	2891	0.03%	0.002%
136	10.396	10.384	10.428	VV	239	3570	0.04%	0.002%
137	10.442	10.428	10.461	VV	291	3542	0.04%	0.002%
138	10.492	10.461	10.532	VV	454	11371	0.14%	0.007%
139	10.557	10.532	10.575	VV	437	8106	0.10%	0.005%
140	10.594	10.575	10.619	VV	462	8722	0.11%	0.005%
141	10.625	10.619	10.661	VV	356	6976	0.08%	0.004%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual IntegrationsAPPROVED

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rteres

142	10.685	10.661	10.707	VV	1093	14049	0.17%	0.008%
143	10.728	10.707	10.743	VV	316	4219		
144	10.768	10.743	10.779	VV	386	5698		
145	10.788	10.779	10.797	VV	490	3986		
146	10.800	10.797	10.806	VV	371	2051		
147	10.839	10.806	10.851	VV	587	12346		
148	10.858	10.851	10.879	VV	577	7213	0.09%	0.004%
149	10.904	10.879	10.934	VV	521	12891	0.16%	0.008%
150	10.962	10.934	11.005	VV	5710	77785	0.94%	0.046%
151	11.035	11.005	11.071	VV	1096	21979	0.27%	0.013%
152	11.077	11.071	11.082	VV	175	1031	0.01%	0.001%
153	11.162	11.082	11.204	VV	717806	8085177	97.73%	4.798%
154	11.238	11.204	11.301	VV	714081	8052998	97.35%	4.779%
155	11.308	11.301	11.378	VV	2115	59274	0.72%	0.035%
156	11.383	11.378	11.390	VV	647	3856	0.05%	0.002%
157	11.413	11.390	11.434	VV	694	13821	0.17%	0.008%
158	11.456	11.434	11.493	VV	1968	34273	0.41%	0.020%
159	11.498	11.493	11.514	VV	382	4144	0.05%	0.002%
160	11.541	11.514	11.564	VV	745	13540	0.16%	0.008%
161	11.608	11.564	11.645	VV	89650	1030829	12.46%	0.612%
162	11.654	11.645	11.659	VV	393	2885	0.03%	0.002%
163	11.686	11.659	11.727	VV	790	17332	0.21%	0.010%
164	11.733	11.727	11.745	VV	170	1166	0.01%	0.001%
165	11.770	11.745	11.784	VV	396	4586	0.06%	0.003%
166	11.803	11.784	11.835	PV	328	4872	0.06%	0.003%
167	11.843	11.835	11.858	VV	126	1053	0.01%	0.001%
168	11.930	11.858	11.982	PV	549537	6098525	73.72%	3.619%
169	11.999	11.982	12.010	VV	885	12537	0.15%	0.007%
170	12.027	12.010	12.049	VV	1244	20009	0.24%	0.012%
171	12.063	12.049	12.106	VV	1088	28907	0.35%	0.017%
172	12.110	12.106	12.127	VV	771	7925	0.10%	0.005%
173	12.137	12.127	12.187	VV	770	15089	0.18%	0.009%
174	12.271	12.187	12.301	VV	837	33631	0.41%	0.020%
175	12.331	12.301	12.357	VV	7305	93213	1.13%	0.055%
176	12.373	12.357	12.394	VV	825	11529	0.14%	0.007%
177	12.416	12.394	12.427	VV	384	5807	0.07%	0.003%
178	12.440	12.427	12.467	VV	438	7317	0.09%	0.004%
179	12.495	12.467	12.502	VV	864	12580	0.15%	0.007%
180	12.524	12.502	12.596	VV	5923	102060	1.23%	0.061%
181	12.604	12.596	12.617	VV	614	6510	0.08%	0.004%
182	12.641	12.617	12.646	VV	646	9453	0.11%	0.006%
183	12.652	12.646	12.677	VV	657	10623	0.13%	0.006%
184	12.683	12.677	12.692	VV	511	4288	0.05%	0.003%
185	12.696	12.692	12.700	VV	534	2191	0.03%	0.001%
186	12.713	12.700	12.727	VV	521	7487	0.09%	0.004%
187	12.780	12.727	12.830	VV	2642	53138	0.64%	0.032%
188	12.857	12.830	12.882	VV	1119	18845	0.23%	0.011%
189	12.919	12.882	12.947	VV	88738	1073402	12.98%	0.637%
190	12.985	12.947	13.098	VV	686548	7962928	96.26%	4.726%
191	13.110	13.098	13.137	VV	512	9706	0.12%	0.006%
192	13.164	13.137	13.234	VV	5433	79421	0.96%	0.047%
193	13.283	13.234	13.312	VV	649101	7806761	94.37%	4.633%
194	13.332	13.312	13.339	VV	7930	92205	1.11%	0.055%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

					rteres			
195	13.365	13.339	13.402	VV	110178	1414821	17.10%	0.840%
196	13.406	13.402	13.461	VV	959	22286		
197	13.466	13.461	13.498	VV	456	9296		
198	13.531	13.498	13.565	VV	79636	991404	11	
199	13.586	13.565	13.643	VV	4076	80605		
200	13.647	13.643	13.697	VV	703	16258		
201	13.759	13.697	13.796	VV	2621	59230	0.72%	0.035%
202	13.799	13.796	13.847	VV	805	17348	0.21%	0.010%
203	13.869	13.847	13.886	VV	395	7404	0.09%	0.004%
204	13.910	13.886	13.923	VV	478	8175	0.10%	0.005%
205	13.935	13.923	13.952	VV	554	7962	0.10%	0.005%
206	13.955	13.952	13.970	VV	409	4271	0.05%	0.003%
207	13.979	13.970	14.014	VV	502	9610	0.12%	0.006%
208	14.023	14.014	14.039	VV	280	3596	0.04%	0.002%
209	14.071	14.039	14.089	VV	3573	48343	0.58%	0.029%
210	14.119	14.089	14.192	VV	77014	970839	11.74%	0.576%
211	14.225	14.192	14.262	VV	368	8405	0.10%	0.005%
212	14.279	14.262	14.286	VV	232	2031	0.02%	0.001%
213	14.352	14.301	14.360	VV	215	5065	0.06%	0.003%
214	14.366	14.360	14.402	VV	185	2699	0.03%	0.002%
215	14.407	14.402	14.430	VV	131	1465	0.02%	0.001%
216	14.459	14.430	14.474	PV	261	3523	0.04%	0.002%
217	14.478	14.474	14.488	VV	175	1095	0.01%	0.001%
218	14.512	14.488	14.531	VV	568	8934	0.11%	0.005%
219	14.557	14.531	14.616	VV	1548	29726	0.36%	0.018%
220	14.619	14.616	14.628	VV	234	1289	0.02%	0.001%
221	14.638	14.634	14.666	VV	248	3069	0.04%	0.002%
222	14.685	14.666	14.701	VV	343	4933	0.06%	0.003%
223	14.725	14.712	14.728	VV	195	1568	0.02%	0.001%
224	14.749	14.728	14.772	VV	440	7800	0.09%	0.005%
225	14.787	14.772	14.809	VV	463	6787	0.08%	0.004%
226	14.820	14.809	14.825	VV	325	3027	0.04%	0.002%
227	14.852	14.825	14.876	VV	413	8417	0.10%	0.005%
228	14.886	14.876	14.924	VV	221	4171	0.05%	0.002%
229	14.929	14.924	14.960	VV	181	2797	0.03%	0.002%
230	14.999	14.960	15.018	VV	311	6628	0.08%	0.004%
231	15.027	15.018	15.043	VV	320	3956	0.05%	0.002%
232	15.062	15.043	15.104	VV	735	12620	0.15%	0.007%
233	15.164	15.112	15.184	VV	527679	7190653	86.92%	4.267%
234	15.210	15.184	15.255	VV	612753	8107024	98.00%	4.811%
235	15.265	15.255	15.336	VV	2340	52121	0.63%	0.031%
236	15.340	15.336	15.346	VV	484	2397	0.03%	0.001%
237	15.350	15.346	15.372	VV	420	5335	0.06%	0.003%
238	15.402	15.372	15.414	VV	792	11816	0.14%	0.007%
239	15.427	15.414	15.479	VV	420	10673	0.13%	0.006%
240	15.481	15.479	15.493	VV	209	1451	0.02%	0.001%
241	15.520	15.493	15.558	VV	673	12906	0.16%	0.008%
242	15.600	15.566	15.682	VV	16727	281292	3.40%	0.167%
243	15.685	15.682	15.699	VV	608	5295	0.06%	0.003%
244	15.705	15.699	15.726	VV	518	6926	0.08%	0.004%
245	15.761	15.726	15.790	VV	1700	31768	0.38%	0.019%
246	15.803	15.790	15.829	VV	383	6745	0.08%	0.004%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

rteres

247	15.842	15.829	15.853	VV	292	3472	0.04%	0.002%
248	15.867	15.853	15.935	VV	355	11410		
249	15.954	15.935	15.979	VV	396	7093		
250	15.987	15.979	15.994	VV	179	1243		
251	16.008	16.004	16.015	VV	240	1313		
252	16.024	16.015	16.036	VV	229	2328		
253	16.053	16.036	16.057	VV	259	2975	0.04%	0.002%
254	16.077	16.057	16.101	VV	637	11289	0.14%	0.007%
255	16.104	16.101	16.110	VV	713	2423	0.03%	0.001%
256	16.121	16.110	16.144	VV	523	8342	0.10%	0.005%
257	16.163	16.144	16.170	VV	289	3820	0.05%	0.002%
258	16.177	16.170	16.184	VV	311	2230	0.03%	0.001%
259	16.248	16.184	16.284	VV	65982	882737	10.67%	0.524%
260	16.301	16.284	16.346	VV	490	8092	0.10%	0.005%
261	16.361	16.346	16.372	VV	105	1078	0.01%	0.001%
262	16.389	16.372	16.416	VV	243	3128	0.04%	0.002%
263	16.431	16.427	16.458	VV	187	1725	0.02%	0.001%
264	16.480	16.458	16.513	VV	262	4665	0.06%	0.003%
265	16.618	16.579	16.668	VV	1320	26432	0.32%	0.016%
266	16.725	16.668	16.740	VV	448723	7063902	85.39%	4.192%
267	16.761	16.740	16.795	VV	569081	7036349	85.06%	4.176%
268	16.811	16.795	16.840	VV	2828	47841	0.58%	0.028%
269	16.864	16.840	16.907	VV	1828	41391	0.50%	0.025%
270	16.912	16.907	16.943	VV	729	11842	0.14%	0.007%
271	16.968	16.943	17.006	VV	2250	34956	0.42%	0.021%
272	17.039	17.006	17.045	VV	471	7423	0.09%	0.004%
273	17.048	17.045	17.055	VV	379	2287	0.03%	0.001%
274	17.108	17.055	17.161	VV	498111	6773203	81.88%	4.020%
275	17.196	17.161	17.230	VV	64542	919527	11.12%	0.546%
276	17.247	17.230	17.332	VV	2073	42064	0.51%	0.025%
277	17.335	17.332	17.361	VV	161	1611	0.02%	0.001%
278	17.386	17.373	17.411	VV	140	1773	0.02%	0.001%
279	17.439	17.411	17.454	VV	174	1758	0.02%	0.001%
280	17.488	17.454	17.499	PV	133	2046	0.02%	0.001%
281	17.530	17.499	17.546	VV	439	7586	0.09%	0.005%
282	17.565	17.546	17.590	VV	634	12596	0.15%	0.007%
283	17.599	17.590	17.614	VV	464	5334	0.06%	0.003%
284	17.618	17.614	17.622	VV	362	1756	0.02%	0.001%
285	17.648	17.622	17.690	VV	1539	26761	0.32%	0.016%
286	17.737	17.707	17.795	PV	456	12461	0.15%	0.007%
287	17.817	17.795	17.852	VV	322	7079	0.09%	0.004%
288	17.868	17.852	17.879	VV	172	2075	0.03%	0.001%
289	17.886	17.879	17.897	VV	169	1237	0.01%	0.001%
290	17.915	17.897	17.924	VV	138	1822	0.02%	0.001%
291	17.982	17.924	18.002	VV	762	16618	0.20%	0.010%
292	18.007	18.002	18.027	VV	241	2889	0.03%	0.002%
293	18.088	18.027	18.126	VV	60344	831386	10.05%	0.493%
294	18.177	18.126	18.220	VV	2187	36281	0.44%	0.022%
295	18.258	18.220	18.296	VV	288	7862	0.10%	0.005%
296	18.319	18.296	18.344	PV	258	3305	0.04%	0.002%
297	18.368	18.344	18.390	PV	413	5715	0.07%	0.003%
298	18.481	18.390	18.497	PV	462135	7363170	89.01%	4.370%
299	18.519	18.497	18.684	VV	489833	6632408	80.17%	3.936%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MS

rteres

300 18.740 18.684 18.801 PBA 485243 7006471 84.69% 4.158%

Sum of corrected areas: 1685

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Aromatic EPH 011425.M Wed Jan 29 02:05:23 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MS	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015191.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.38		0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.50		0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.2		0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	14.6		0.90	1.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	24.3		2.03	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-01MS	Acq On:	28 Jan 2025 19:40
Client Sample ID:	B-110-SB01MS	Operator:	YP\AJ
Data file:	FG015191.D	Misc:	
Instrument:	FID_G	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	14792599	111.316	300	ug/ml
Aliphatic C12-C16	6.821	10.273	14065783	99.609	200	ug/ml
Aliphatic C16-C21	10.274	13.656	21464089	148.521	300	ug/ml
Aliphatic C21-C28	13.657	17.330	26422998	193.281	400	ug/ml
Aliphatic C28-C40	17.331	22.272	34019941	322.188	600	ug/ml
Aliphatic EPH	3.178	22.272	110765410	874.915		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.385	13.385	4847143	39.81		ug/ml
Aliphatic C9-C28	3.178	17.330	76745469	552.727	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015191.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 19:40
Operator : YP\AJ
Sample : Q1194-01MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB01MS

Integration File: autoint1.e
Quant Time: Jan 29 02:37:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.385	4847143	39.808 ug/ml
Spiked Amount	50.000		Recovery =	79.62%
	Target Compounds			
1) T	n-Nonane (C9)	3.281	3730914	28.736 ug/ml
2) T	n-Decane (C10)	4.541	4756590	35.793 ug/ml
4) T	n-Dodecane (C12)	6.722	5612876	41.289 ug/ml
6) T	n-Tetradecane (C14)	8.559	6290182	45.739 ug/ml
7) T	n-Hexadecane (C16)	10.174	6712000	46.323 ug/ml
8) T	n-Octadecane (C18)	11.624	6948170	46.749 ug/ml
10) T	n-Eicosane (C20)	12.940	7125441	49.642 ug/ml
11) T	n-Heneicosane (C21)	13.555	6818547	48.224 ug/ml
13) T	n-Docosane (C22)	14.143	6772241	48.166 ug/ml
14) T	n-Tetracosane (C24)	15.251	6619118	47.557 ug/ml
15) T	n-Hexacosane (C26)	16.276	6410510	47.328 ug/ml
16) T	n-Octacosane (C28)	17.229	6194656	47.073 ug/ml
17) T	n-Tricontane (C30)	18.118	6124531	46.168 ug/ml
18) T	n-Dotriacontane (C32)	18.954	5922884	46.961 ug/ml
19) T	n-Tetratriacontane (C34)	19.739	5666885	52.046 ug/ml
20) T	n-Hexatriacontane (C36)	20.480	5273947	56.489 ug/ml
21) T	n-Octatriacontane (C38)	21.229	4972769	56.667 ug/ml
22) T	n-Tetracontane (C40)	22.168	4716890	55.648 ug/ml

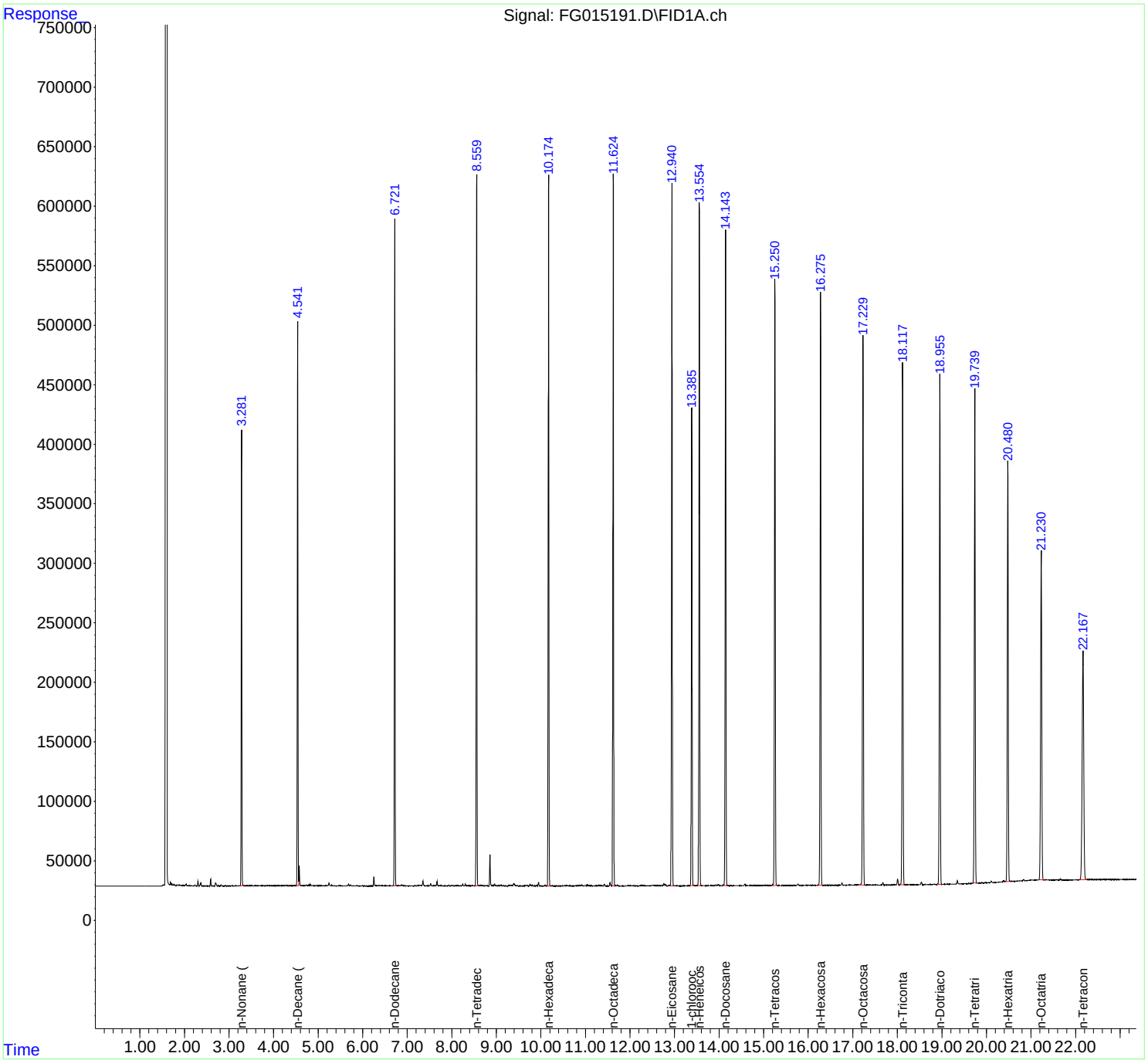
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015191.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 19:40
Operator : YP\AJ
Sample : Q1194-01MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB01MS

Integration File: autoint1.e
Quant Time: Jan 29 02:37:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015191.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 19:40
Sample : Q1194-01MS
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.281	3.222	3.382	BV	383525	3740095	52.44%	3.235%
2	3.395	3.382	3.404	VV	115	1273	0.02%	0.001%
3	3.428	3.404	3.442	VV	270	3594	0.05%	0.003%
4	3.455	3.442	3.485	VV	165	3246	0.05%	0.003%
5	3.494	3.485	3.514	VV	173	2629	0.04%	0.002%
6	3.525	3.514	3.552	VV	214	3068	0.04%	0.003%
7	3.565	3.552	3.579	VV	142	1845	0.03%	0.002%
8	3.598	3.579	3.608	VV	294	3258	0.05%	0.003%
9	3.618	3.608	3.642	VV	299	4290	0.06%	0.004%
10	3.656	3.642	3.668	VV	345	3906	0.05%	0.003%
11	3.674	3.668	3.710	VV	259	3540	0.05%	0.003%
12	3.730	3.710	3.744	VV	187	2529	0.04%	0.002%
13	3.762	3.744	3.836	VV	454	7812	0.11%	0.007%
14	3.877	3.836	3.908	VV	410	6909	0.10%	0.006%
15	3.914	3.908	3.940	VV	112	1501	0.02%	0.001%
16	3.965	3.940	4.034	VV	189	5978	0.08%	0.005%
17	4.080	4.034	4.098	VV	333	5938	0.08%	0.005%
18	4.113	4.098	4.152	VV	651	8610	0.12%	0.007%
19	4.191	4.152	4.232	VV	278	6667	0.09%	0.006%
20	4.283	4.232	4.343	VV	560	16950	0.24%	0.015%
21	4.377	4.343	4.417	VV	189	6305	0.09%	0.005%
22	4.449	4.417	4.465	VV	249	5299	0.07%	0.005%
23	4.487	4.465	4.505	VV	209	4286	0.06%	0.004%
24	4.541	4.505	4.565	VV	475595	4767251	66.85%	4.123%
25	4.577	4.565	4.645	VV	16889	171817	2.41%	0.149%
26	4.668	4.645	4.702	VV	414	8722	0.12%	0.008%
27	4.730	4.702	4.750	VV	852	12282	0.17%	0.011%
28	4.760	4.750	4.773	VV	326	3642	0.05%	0.003%
29	4.793	4.773	4.809	VV	712	9040	0.13%	0.008%
30	4.827	4.809	4.875	VV	1335	19963	0.28%	0.017%
31	4.886	4.875	4.895	VV	262	2891	0.04%	0.003%
32	4.906	4.895	4.942	VV	285	6533	0.09%	0.006%
33	4.955	4.942	4.971	VV	273	4368	0.06%	0.004%
34	5.011	4.971	5.024	VV	260	6561	0.09%	0.006%
35	5.043	5.024	5.140	VV	282	11906	0.17%	0.010%
36	5.160	5.140	5.197	VV	274	5721	0.08%	0.005%

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37	5.245	5.197	5.281	VV	2646	39251	0.55%	0.034%
38	5.307	5.281	5.342	VV	608	9499	0.13%	0.008%
39	5.356	5.342	5.422	VV	172	4712	0.07%	0.004%
40	5.453	5.422	5.472	VV	238	4033	0.06%	0.003%
41	5.494	5.472	5.538	VV	256	6089	0.09%	0.005%
42	5.585	5.538	5.611	VV	160	5255	0.07%	0.005%
43	5.622	5.611	5.632	VV	156	1513	0.02%	0.001%
44	5.648	5.632	5.659	VV	215	2180	0.03%	0.002%
45	5.684	5.659	5.707	VV	1780	21094	0.30%	0.018%
46	5.728	5.707	5.775	VV	950	13801	0.19%	0.012%
47	5.788	5.775	5.805	VV	277	3331	0.05%	0.003%
48	5.817	5.805	5.844	VV	147	2817	0.04%	0.002%
49	5.869	5.844	5.908	VV	213	5535	0.08%	0.005%
50	5.914	5.908	5.930	VV	116	1137	0.02%	0.001%
51	5.998	5.930	6.018	VV	203	5413	0.08%	0.005%
52	6.027	6.018	6.062	VV	91	1651	0.02%	0.001%
53	6.070	6.062	6.105	VV	92	2058	0.03%	0.002%
54	6.115	6.105	6.152	VV	84	1392	0.02%	0.001%
55	6.170	6.152	6.222	PV	93	2049	0.03%	0.002%
56	6.252	6.222	6.299	VV	7766	86887	1.22%	0.075%
57	6.319	6.299	6.341	VV	407	7143	0.10%	0.006%
58	6.363	6.341	6.392	VV	756	11217	0.16%	0.010%
59	6.403	6.392	6.410	VV	204	2108	0.03%	0.002%
60	6.430	6.410	6.463	VV	476	8909	0.12%	0.008%
61	6.504	6.463	6.578	VV	357	15116	0.21%	0.013%
62	6.604	6.578	6.667	VV	292	8950	0.13%	0.008%
63	6.721	6.667	6.785	VV	561433	5629991	78.94%	4.869%
64	6.807	6.785	6.826	VV	616	9243	0.13%	0.008%
65	6.844	6.826	6.856	VV	379	5175	0.07%	0.004%
66	6.875	6.856	6.896	VV	1159	14518	0.20%	0.013%
67	6.908	6.896	6.932	VV	400	5191	0.07%	0.004%
68	6.950	6.932	6.971	VV	475	6229	0.09%	0.005%
69	7.008	6.971	7.025	VV	147	3965	0.06%	0.003%
70	7.049	7.025	7.072	VV	255	4429	0.06%	0.004%
71	7.088	7.072	7.151	VV	196	6671	0.09%	0.006%
72	7.177	7.151	7.207	VV	561	8256	0.12%	0.007%
73	7.232	7.207	7.248	VV	721	10505	0.15%	0.009%
74	7.256	7.248	7.269	VV	539	5686	0.08%	0.005%
75	7.294	7.269	7.325	VV	625	13699	0.19%	0.012%
76	7.354	7.325	7.386	VV	4251	55394	0.78%	0.048%
77	7.398	7.386	7.421	VV	386	6163	0.09%	0.005%
78	7.444	7.421	7.483	VV	411	9753	0.14%	0.008%
79	7.527	7.483	7.562	VV	2080	27918	0.39%	0.024%
80	7.603	7.562	7.620	VV	324	8632	0.12%	0.007%
81	7.636	7.620	7.647	VV	492	5446	0.08%	0.005%
82	7.670	7.647	7.696	VV	3815	43735	0.61%	0.038%
83	7.705	7.696	7.717	VV	254	2676	0.04%	0.002%
84	7.734	7.717	7.750	VV	396	5681	0.08%	0.005%
85	7.763	7.750	7.783	VV	499	6161	0.09%	0.005%
86	7.793	7.783	7.808	VV	174	2176	0.03%	0.002%
87	7.844	7.808	7.908	VV	293	10776	0.15%	0.009%
88	7.937	7.908	7.968	VV	877	12201	0.17%	0.011%
89	7.986	7.968	7.995	VV	266	3020	0.04%	0.003%

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90	8.009	7.995	8.055	VV	304	8253	0.12%	0.007%
91	8.102	8.055	8.119	VV	345	8402	0.12%	0.007%
92	8.134	8.119	8.148	VV	438	5817	0.08%	0.005%
93	8.160	8.148	8.184	VV	367	5703	0.08%	0.005%
94	8.202	8.184	8.228	VV	505	7320	0.10%	0.006%
95	8.247	8.228	8.273	VV	1752	21482	0.30%	0.019%
96	8.304	8.273	8.326	VV	1461	18354	0.26%	0.016%
97	8.341	8.326	8.361	VV	303	4973	0.07%	0.004%
98	8.375	8.361	8.395	VV	511	5957	0.08%	0.005%
99	8.407	8.395	8.440	VV	275	5252	0.07%	0.005%
100	8.461	8.440	8.486	VV	744	9993	0.14%	0.009%
101	8.495	8.486	8.521	VV	208	3833	0.05%	0.003%
102	8.559	8.521	8.632	VV	592777	6307742	88.45%	5.455%
103	8.658	8.632	8.688	VV	806	16669	0.23%	0.014%
104	8.706	8.688	8.727	VV	497	7387	0.10%	0.006%
105	8.754	8.727	8.778	VV	424	8008	0.11%	0.007%
106	8.792	8.778	8.821	VV	565	7457	0.10%	0.006%
107	8.858	8.821	8.933	VV	26044	281991	3.95%	0.244%
108	8.959	8.933	8.998	VV	1897	28414	0.40%	0.025%
109	9.018	8.998	9.036	VV	452	8630	0.12%	0.007%
110	9.051	9.036	9.078	VV	536	9104	0.13%	0.008%
111	9.100	9.078	9.145	VV	998	20850	0.29%	0.018%
112	9.165	9.145	9.194	VV	378	5506	0.08%	0.005%
113	9.216	9.194	9.237	PV	326	4333	0.06%	0.004%
114	9.284	9.237	9.303	VV	962	16528	0.23%	0.014%
115	9.323	9.303	9.351	VV	825	16135	0.23%	0.014%
116	9.401	9.351	9.455	VV	1926	53992	0.76%	0.047%
117	9.475	9.455	9.501	VV	537	7819	0.11%	0.007%
118	9.525	9.501	9.562	VV	389	5628	0.08%	0.005%
119	9.580	9.562	9.592	VV	198	2540	0.04%	0.002%
120	9.630	9.592	9.638	VV	379	7387	0.10%	0.006%
121	9.646	9.638	9.662	VV	318	3768	0.05%	0.003%
122	9.689	9.662	9.729	VV	726	13889	0.19%	0.012%
123	9.760	9.729	9.790	VV	1595	25631	0.36%	0.022%
124	9.808	9.790	9.839	VV	904	12792	0.18%	0.011%
125	9.853	9.839	9.874	VV	305	4129	0.06%	0.004%
126	9.905	9.874	9.928	VV	855	14611	0.20%	0.013%
127	9.949	9.928	9.985	VV	3185	36986	0.52%	0.032%
128	10.009	9.985	10.024	VV	226	2961	0.04%	0.003%
129	10.104	10.024	10.131	VV	626	16456	0.23%	0.014%
130	10.174	10.131	10.225	VV	601770	6717616	94.19%	5.810%
131	10.244	10.225	10.308	VV	383	11429	0.16%	0.010%
132	10.320	10.308	10.333	VV	150	1756	0.02%	0.002%
133	10.344	10.333	10.364	VV	166	1875	0.03%	0.002%
134	10.378	10.364	10.407	VV	79	1036	0.01%	0.001%
135	10.451	10.407	10.468	VV	225	4068	0.06%	0.004%
136	10.494	10.468	10.532	VV	330	8214	0.12%	0.007%
137	10.567	10.532	10.585	VV	601	11511	0.16%	0.010%
138	10.604	10.585	10.624	VV	451	7231	0.10%	0.006%
139	10.655	10.624	10.675	VV	322	7561	0.11%	0.007%
140	10.687	10.675	10.728	VV	273	5500	0.08%	0.005%
141	10.731	10.728	10.745	VV	198	1434	0.02%	0.001%

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142	10.777	10.745	10.789	VV	440	7414	0.10%	0.006%
143	10.804	10.789	10.827	VV	381	7285	0.10%	0.006%
144	10.849	10.827	10.882	VV	586	13558	0.19%	0.012%
145	10.913	10.882	10.953	VV	874	20180	0.28%	0.017%
146	10.972	10.953	10.985	VV	420	6659	0.09%	0.006%
147	10.994	10.985	11.015	VV	447	7160	0.10%	0.006%
148	11.044	11.015	11.077	VV	1189	20755	0.29%	0.018%
149	11.102	11.077	11.163	VV	321	13258	0.19%	0.011%
150	11.199	11.163	11.214	VV	253	5616	0.08%	0.005%
151	11.242	11.214	11.265	VV	430	8274	0.12%	0.007%
152	11.287	11.265	11.320	VV	502	10715	0.15%	0.009%
153	11.342	11.320	11.390	VV	629	13687	0.19%	0.012%
154	11.424	11.390	11.463	VV	1725	23650	0.33%	0.020%
155	11.476	11.463	11.493	VV	176	1875	0.03%	0.002%
156	11.551	11.493	11.585	VV	2773	38776	0.54%	0.034%
157	11.624	11.585	11.685	VV	599731	6959787	97.59%	6.019%
158	11.716	11.685	11.772	VV	933	16876	0.24%	0.015%
159	11.776	11.772	11.794	VV	168	1177	0.02%	0.001%
160	11.852	11.794	11.860	PV	149	3894	0.05%	0.003%
161	11.864	11.860	11.878	VV	139	833	0.01%	0.001%
162	11.889	11.878	11.898	VV	71	629	0.01%	0.001%
163	11.975	11.898	11.988	VV	291	12255	0.17%	0.011%
164	12.012	11.988	12.053	VV	485	11384	0.16%	0.010%
165	12.079	12.053	12.125	VV	418	10763	0.15%	0.009%
166	12.146	12.125	12.162	VV	154	2686	0.04%	0.002%
167	12.230	12.162	12.238	VV	252	8566	0.12%	0.007%
168	12.287	12.238	12.315	VV	771	22223	0.31%	0.019%
169	12.336	12.315	12.367	VV	374	8014	0.11%	0.007%
170	12.385	12.367	12.408	VV	286	5066	0.07%	0.004%
171	12.427	12.408	12.438	VV	341	5094	0.07%	0.004%
172	12.449	12.438	12.475	VV	370	5849	0.08%	0.005%
173	12.512	12.475	12.552	VV	790	21544	0.30%	0.019%
174	12.580	12.552	12.604	VV	536	11622	0.16%	0.010%
175	12.626	12.604	12.653	VV	469	9331	0.13%	0.008%
176	12.760	12.653	12.781	VV	1936	45612	0.64%	0.039%
177	12.797	12.781	12.832	VV	1230	18140	0.25%	0.016%
178	12.835	12.832	12.845	VV	129	646	0.01%	0.001%
179	12.876	12.845	12.899	VV	955	13154	0.18%	0.011%
180	12.940	12.899	12.982	VV	591813	7131731	100.00%	6.168%
181	12.999	12.982	13.026	VV	378	6716	0.09%	0.006%
182	13.054	13.026	13.134	VV	267	5983	0.08%	0.005%
183	13.197	13.134	13.247	PV	185	5936	0.08%	0.005%
184	13.259	13.247	13.277	VV	146	1652	0.02%	0.001%
185	13.308	13.277	13.325	VV	251	4086	0.06%	0.004%
186	13.385	13.325	13.421	VV	401128	4858652	68.13%	4.202%
187	13.440	13.421	13.465	VV	399	7902	0.11%	0.007%
188	13.496	13.465	13.512	VV	343	7279	0.10%	0.006%
189	13.554	13.512	13.705	VV	577994	6848611	96.03%	5.923%
190	13.713	13.705	13.725	VV	145	1673	0.02%	0.001%
191	13.755	13.725	13.791	VV	316	9299	0.13%	0.008%
192	13.835	13.791	13.874	VV	423	13627	0.19%	0.012%
193	13.897	13.874	13.908	VV	312	4406	0.06%	0.004%
194	13.930	13.908	13.955	VV	734	11797	0.17%	0.010%

195	13.982	13.955	14.025	VV	1149	20603	0.29%	0.018%
196	14.088	14.025	14.103	VV	938	18020	0.25%	0.016%
197	14.143	14.103	14.255	VV	548166	6787340	95.17%	5.870%
198	14.268	14.255	14.315	VV	157	2337	0.03%	0.002%
199	14.380	14.315	14.395	PV	209	6724	0.09%	0.006%
200	14.409	14.395	14.426	VV	145	2364	0.03%	0.002%
201	14.439	14.426	14.455	VV	143	1602	0.02%	0.001%
202	14.471	14.455	14.495	VV	179	2939	0.04%	0.003%
203	14.509	14.495	14.525	VV	164	1924	0.03%	0.002%
204	14.533	14.525	14.545	VV	155	1645	0.02%	0.001%
205	14.576	14.545	14.663	VV	1429	28440	0.40%	0.025%
206	14.703	14.663	14.745	VV	505	10745	0.15%	0.009%
207	14.764	14.745	14.778	VV	205	3086	0.04%	0.003%
208	14.844	14.778	14.886	VV	278	13729	0.19%	0.012%
209	14.905	14.886	14.934	VV	247	5830	0.08%	0.005%
210	15.022	14.934	15.080	VV	303	20343	0.29%	0.018%
211	15.102	15.080	15.165	VV	320	8561	0.12%	0.007%
212	15.250	15.165	15.398	VV	515617	6636331	93.05%	5.739%
213	15.420	15.398	15.478	VV	171	5562	0.08%	0.005%
214	15.491	15.478	15.603	VV	101	4817	0.07%	0.004%
215	15.674	15.603	15.705	PV	295	6751	0.09%	0.006%
216	15.769	15.705	15.848	VV	1367	26391	0.37%	0.023%
217	15.863	15.848	15.886	VV	107	1526	0.02%	0.001%
218	15.949	15.886	16.022	VV	273	11146	0.16%	0.010%
219	16.085	16.022	16.105	VV	263	8191	0.11%	0.007%
220	16.132	16.105	16.194	VV	288	9254	0.13%	0.008%
221	16.275	16.194	16.355	VV	494705	6422192	90.05%	5.554%
222	16.367	16.355	16.392	VV	97	1024	0.01%	0.001%
223	16.446	16.392	16.475	PV	179	4405	0.06%	0.004%
224	16.489	16.475	16.542	VV	114	3100	0.04%	0.003%
225	16.596	16.542	16.612	VV	100	4567	0.06%	0.004%
226	16.639	16.612	16.674	VV	151	3794	0.05%	0.003%
227	16.756	16.674	16.857	VV	2006	36731	0.52%	0.032%
228	16.918	16.857	16.982	VV	304	13294	0.19%	0.011%
229	16.991	16.982	17.005	VV	194	2341	0.03%	0.002%
230	17.062	17.005	17.085	VV	373	11092	0.16%	0.010%
231	17.107	17.085	17.141	VV	526	13913	0.20%	0.012%
232	17.228	17.141	17.302	VV	460503	6214934	87.14%	5.375%
233	17.317	17.302	17.352	VV	221	4608	0.06%	0.004%
234	17.376	17.352	17.415	VV	170	4167	0.06%	0.004%
235	17.460	17.415	17.492	VV	122	4095	0.06%	0.004%
236	17.514	17.492	17.538	VV	128	2713	0.04%	0.002%
237	17.557	17.538	17.588	VV	135	1827	0.03%	0.002%
238	17.675	17.588	17.748	PV	2028	32328	0.45%	0.028%
239	17.782	17.748	17.801	PV	187	3513	0.05%	0.003%
240	17.821	17.801	17.858	VV	203	4414	0.06%	0.004%
241	17.911	17.858	17.975	VV	283	12247	0.17%	0.011%
242	18.005	17.975	18.042	VV	4884	72182	1.01%	0.062%
243	18.118	18.042	18.178	VV	440516	6135417	86.03%	5.306%
244	18.207	18.178	18.232	VV	268	5267	0.07%	0.005%
245	18.256	18.232	18.365	VV	259	10690	0.15%	0.009%
246	18.395	18.365	18.418	PV	208	4484	0.06%	0.004%

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247	18.435	18.418	18.458	VV	114	2139	0.03%	0.002%
248	18.538	18.458	18.576	VV	2319	37687	0.53%	0.033%
249	18.624	18.576	18.648	VV	166	4189	0.06%	0.004%
250	18.664	18.648	18.700	VV	93	2016	0.03%	0.002%
251	18.744	18.700	18.765	PV	148	3776	0.05%	0.003%
252	18.801	18.765	18.822	VV	195	5347	0.07%	0.005%
253	18.838	18.822	18.862	VV	195	3999	0.06%	0.003%
254	18.953	18.862	19.022	VV	425850	5928157	83.12%	5.127%
255	19.094	19.022	19.135	PV	114	5138	0.07%	0.004%
256	19.207	19.135	19.228	VV	89	3663	0.05%	0.003%
257	19.247	19.228	19.265	VV	63	1241	0.02%	0.001%
258	19.347	19.265	19.400	PV	2130	33170	0.47%	0.029%
259	19.521	19.400	19.562	VV	144	7265	0.10%	0.006%
260	19.738	19.562	19.812	VV	414660	5708399	80.04%	4.937%
261	19.849	19.812	19.872	VV	301	8543	0.12%	0.007%
262	19.893	19.872	19.938	VV	460	12185	0.17%	0.011%
263	19.988	19.938	20.005	VV	335	11073	0.16%	0.010%
264	20.034	20.005	20.064	VV	380	9924	0.14%	0.009%
265	20.110	20.064	20.185	VV	1416	34406	0.48%	0.030%
266	20.380	20.185	20.412	VV	1355	73090	1.02%	0.063%
267	20.479	20.412	20.594	VV	352956	5360823	75.17%	4.636%
268	20.749	20.594	20.775	VV	994	93656	1.31%	0.081%
269	20.835	20.775	20.872	VV	2108	71877	1.01%	0.062%
270	21.019	20.872	21.062	VV	1427	129682	1.82%	0.112%
271	21.129	21.062	21.145	VV	1302	61362	0.86%	0.053%
272	21.229	21.145	21.521	VV	274146	5212511	73.09%	4.508%
273	21.564	21.521	21.612	VV	799	38068	0.53%	0.033%
274	21.664	21.612	21.762	VV	1164	57562	0.81%	0.050%
275	21.892	21.762	21.938	VV	308	34944	0.49%	0.030%
276	22.035	21.938	22.055	VV	358	20838	0.29%	0.018%
277	22.167	22.055	22.288	VV	191927	4749867	66.60%	4.108%
278	22.305	22.288	22.395	VV	202	6087	0.09%	0.005%

Sum of corrected areas: 115630147

Aliphatic EPH 011425.M Wed Jan 29 03:45:05 2025

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MSD	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 20:08	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.23		1	0.43	1.13	mg/kg	FG015192.D
Aliphatic C12-C16	Aliphatic C12-C16	7.39		1	0.27	0.75	mg/kg	FG015192.D
Aliphatic C16-C21	Aliphatic C16-C21	11.1		1	0.34	1.13	mg/kg	FG015192.D
Aliphatic C21-C28	Aliphatic C21-C28	14.5		1	0.90	1.51	mg/kg	FG015192.D
Aliphatic C28-C40	Aliphatic C28-C40	24.5		1	2.04	2.26	mg/kg	FG015192.D
Aromatic C10-C12	Aromatic C10-C12	6.92		1	0.34	0.75	mg/kg	FF015335.D
Aromatic C12-C16	Aromatic C12-C16	15.8		1	0.38	1.13	mg/kg	FF015335.D
Aromatic C16-C21	Aromatic C16-C21	23.1		1	1.09	1.88	mg/kg	FF015335.D
Aromatic C21-C36	Aromatic C21-C36	33.4		1	2.26	3.01	mg/kg	FF015335.D
Total AliphaticEPH	Total AliphaticEPH	65.7			3.98	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	79.2			4.07	6.77	mg/kg	
Total EPH	Total EPH	145			8.06	13.6	mg/kg	

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

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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MSD	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 20:08	PB166218

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TARGETS								
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Aliphatic C12-C16	Aliphatic C12-C16	7.39		1	0.27	0.75	mg/kg	FG015192.D
Aliphatic C16-C21	Aliphatic C16-C21	11.1		1	0.34	1.13	mg/kg	FG015192.D
Aliphatic C21-C28	Aliphatic C21-C28	14.5		1	0.90	1.51	mg/kg	FG015192.D
Aliphatic C28-C40	Aliphatic C28-C40	24.5		1	2.04	2.26	mg/kg	FG015192.D
Aromatic C10-C12	Aromatic C10-C12	6.92		1	0.34	0.75	mg/kg	FF015335.D
Aromatic C12-C16	Aromatic C12-C16	15.8		1	0.38	1.13	mg/kg	FF015335.D
Aromatic C16-C21	Aromatic C16-C21	23.1		1	1.09	1.88	mg/kg	FF015335.D
Aromatic C21-C36	Aromatic C21-C36	33.4		1	2.26	3.01	mg/kg	FF015335.D
Total AliphaticEPH	Total AliphaticEPH	65.7			3.98	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	79.2			4.07	6.77	mg/kg	
Total EPH	Total EPH	145			8.06	13.6	mg/kg	

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MSD	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
01/28/25 08:30	01/28/25 20:08	PB166218

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	8.23		1	0.43	1.13	mg/kg	FG015192.D
Aliphatic C12-C16	Aliphatic C12-C16	7.39		1	0.27	0.75	mg/kg	FG015192.D
Aliphatic C16-C21	Aliphatic C16-C21	11.1		1	0.34	1.13	mg/kg	FG015192.D
Aliphatic C21-C28	Aliphatic C21-C28	14.5		1	0.90	1.51	mg/kg	FG015192.D
Aliphatic C28-C40	Aliphatic C28-C40	24.5		1	2.04	2.26	mg/kg	FG015192.D
Aromatic C10-C12	Aromatic C10-C12	6.92		1	0.34	0.75	mg/kg	FF015335.D
Aromatic C12-C16	Aromatic C12-C16	15.8		1	0.38	1.13	mg/kg	FF015335.D
Aromatic C16-C21	Aromatic C16-C21	23.1		1	1.09	1.88	mg/kg	FF015335.D
Aromatic C21-C36	Aromatic C21-C36	33.4		1	2.26	3.01	mg/kg	FF015335.D
Total AliphaticEPH	Total AliphaticEPH	65.7			3.98	6.78	mg/kg	
Total AromaticEPH	Total AromaticEPH	79.2			4.07	6.77	mg/kg	
Total EPH	Total EPH	145			8.06	13.6	mg/kg	

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MSD	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015335.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.92		0.34	0.75	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.8		0.38	1.13	mg/kg
Aromatic C16-C21	Aromatic C16-C21	23.1		1.09	1.88	mg/kg
Aromatic C21-C36	Aromatic C21-C36	33.4		2.26	3.01	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	55.2		40 - 140	110%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.3		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.9		40 - 140	72%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q1194-01MSD	Acq On:	28 Jan 2025 20:08
Client Sample ID:	Q1194-01MSD	Operator:	YP\AJ
Data file:	FF015335.D	Misc:	
Instrument:	FID_F	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.485	6.355	14732048	91.863	200	ug/ml
Aromatic C12-C16	6.356	9.053	33687730	210.12	300	ug/ml
Aromatic C16-C21	9.054	13.372	48072033	306.807	500	ug/ml
Aromatic C21-C36	13.373	18.824	64483861	442.9	800	ug/ml
Aromatic EPH	4.485	18.824	160975672	1050		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	7289072	55.22		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	4671163	55.34		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	6186547	35.94		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015335.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 20:08
Operator : YP\AJ
Sample : Q1194-01MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 29 00:50:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
B-110-SB01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.992	7289072	55.220 ug/ml
	Spiked Amount 50.000		Recovery = 110.44%	
6)	S 2-Flurobiphenyl (SURR)	8.866	4671163	55.340 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery = 110.68%	
11)	S ortho-Terphenyl (SURR)	11.929	6186547	35.938 ug/ml
	Spiked Amount 50.000		Recovery = 71.88%	
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.603	6277986	39.139 ug/ml
2)	T Naphthalene (C11.7)	6.271	7257624	45.265 ug/ml
3)	T 2-Methylnaphthalene (...	7.366	7060308	44.400 ug/ml
5)	T Acenaphthylene (C15.06)	8.668	7957805	50.081 ug/ml
7)	T Acenaphthene (C15.5)	8.968	8365219	51.301 ug/ml
8)	T Flouorene (C16.55)	9.756	8334685	52.933 ug/ml
9)	T Phenanthrene (C19.36)	11.162	8051558	50.428 ug/ml
10)	T Anthracene (C19.43)	11.238	8068890	54.652 ug/ml
12)	T Fluoranthene (C21.85)	12.984	8092886	48.919 ug/ml
13)	T Pyrene (C20.8)	13.283	7951215	49.088 ug/ml
14)	T Benzo[a]anthracene (C...	15.164	7331804	49.147 ug/ml
15)	T Chrysene (C27.41)	15.210	8207987	52.843 ug/ml
16)	T benzo[b]fluoranthene ...	16.724	7192638	48.604 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.761	7106098	50.259 ug/mlm
18)	T Benzo[a]pyrene (C31.34)	17.106	6881960	48.437 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.481	7529449	59.754 ug/ml
20)	T Dibenz[a,h]anthracene...	18.520	6811828	46.041 ug/mlm
21)	T Benzo[g,h,i]perylene ...	18.740	7111202	52.679 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF012825AR\
Data File : FF015335.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 20:08
Operator : YP\AJ
Sample : Q1194-01MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

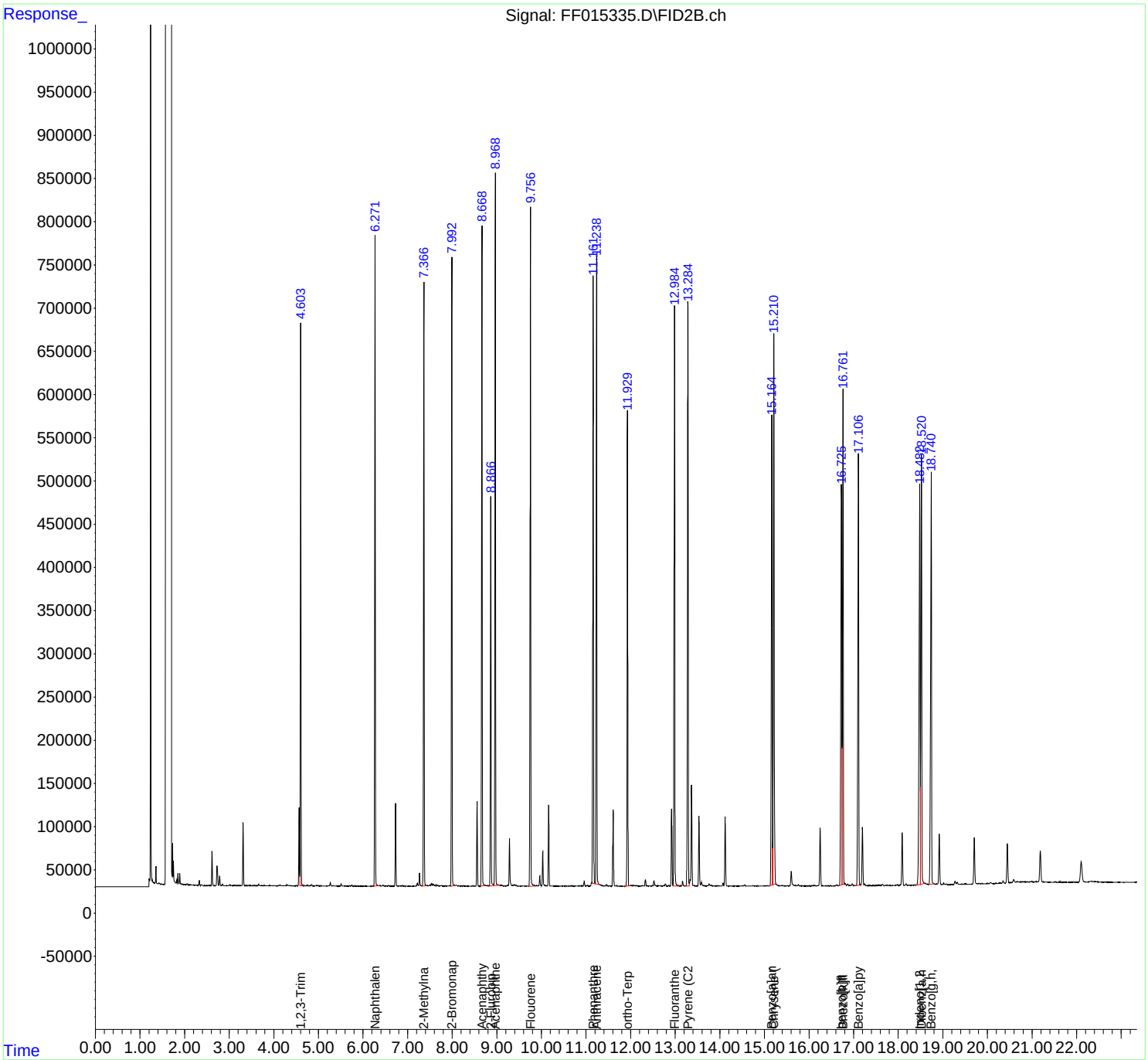
Instrument :
FID_F
ClientSampleId :
B-110-SB01MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Integration File: autoint1.e
Quant Time: Jan 29 00:50:09 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Wed Jan 15 07:05:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_F
ClientSampleId :
B-110-SB01MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF01282
Data File : FF015335.D
Signal(s) : FID2B.ch
Acq On : 28 Jan 2025 20:08
Sample : Q1194-01MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 011425.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	4.455	4.443	4.485	VV	146	2197	0.03%	0.001%
2	4.510	4.485	4.537	PV	280	4585	0.05%	0.003%
3	4.568	4.537	4.582	VV	90476	867542	10.30%	0.505%
4	4.603	4.582	4.672	VV	649907	6286396	74.62%	3.658%
5	4.693	4.672	4.715	VV	503	8662	0.10%	0.005%
6	4.756	4.715	4.776	VV	1274	19446	0.23%	0.011%
7	4.788	4.776	4.802	VV	306	3385	0.04%	0.002%
8	4.819	4.802	4.833	VV	1066	11144	0.13%	0.006%
9	4.852	4.833	4.887	VV	1751	20814	0.25%	0.012%
10	4.892	4.887	4.898	VV	214	1054	0.01%	0.001%
11	4.939	4.898	4.968	VV	634	16454	0.20%	0.010%
12	4.981	4.968	5.024	VV	490	10488	0.12%	0.006%
13	5.030	5.024	5.043	VV	276	2529	0.03%	0.001%
14	5.059	5.043	5.081	VV	618	8418	0.10%	0.005%
15	5.085	5.081	5.112	VV	182	2262	0.03%	0.001%
16	5.117	5.112	5.131	VV	130	1192	0.01%	0.001%
17	5.150	5.141	5.165	VV	151	1657	0.02%	0.001%
18	5.182	5.165	5.207	VV	371	5077	0.06%	0.003%
19	5.243	5.214	5.250	VV	663	9247	0.11%	0.005%
20	5.268	5.250	5.308	VV	4162	49931	0.59%	0.029%
21	5.329	5.308	5.369	VV	806	11497	0.14%	0.007%
22	5.384	5.369	5.406	VV	170	2962	0.04%	0.002%
23	5.473	5.430	5.490	PV	271	4114	0.05%	0.002%
24	5.510	5.490	5.557	VV	2742	32931	0.39%	0.019%
25	5.577	5.557	5.592	VV	222	3406	0.04%	0.002%
26	5.612	5.607	5.640	VV	138	1781	0.02%	0.001%
27	5.666	5.640	5.684	VV	209	3325	0.04%	0.002%
28	5.702	5.684	5.724	VV	765	8273	0.10%	0.005%
29	5.747	5.724	5.768	VV	1342	15398	0.18%	0.009%
30	5.780	5.768	5.787	VV	148	1315	0.02%	0.001%
31	5.807	5.787	5.827	VV	396	4636	0.06%	0.003%
32	5.885	5.827	5.890	VV	210	3919	0.05%	0.002%
33	5.894	5.890	5.902	VV	217	1154	0.01%	0.001%
34	5.906	5.902	5.921	VV	215	1229	0.01%	0.001%
35	5.952	5.935	5.983	PV	211	3412	0.04%	0.002%
36	6.014	5.983	6.037	VV	183	3119	0.04%	0.002%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 01/29/2025
Supervised By :Ankita Jodhani 01/29/2025

rteres

37	6.049	6.037	6.064	VV	178	1460	0.02%	0.001%
38	6.072	6.064	6.081	VV	141	1111		
39	6.083	6.081	6.144	VV	112	1738		
40	6.195	6.174	6.207	VV	191	2629		
41	6.220	6.207	6.239	VV	286	3801		
42	6.271	6.239	6.348	VV	750985	7282838	86	
43	6.351	6.348	6.362	VV	684	5717	0.07%	0.003%
44	6.377	6.362	6.406	VV	1177	18751	0.22%	0.011%
45	6.410	6.406	6.427	VV	414	4528	0.05%	0.003%
46	6.447	6.427	6.476	VV	1534	22670	0.27%	0.013%
47	6.513	6.476	6.554	VV	550	16934	0.20%	0.010%
48	6.575	6.554	6.604	VV	1153	16250	0.19%	0.009%
49	6.608	6.604	6.639	VV	301	4660	0.06%	0.003%
50	6.644	6.639	6.681	VV	261	4881	0.06%	0.003%
51	6.685	6.681	6.702	VV	214	1921	0.02%	0.001%
52	6.731	6.702	6.785	VV	95914	969848	11.51%	0.564%
53	6.817	6.785	6.838	VV	756	11897	0.14%	0.007%
54	6.855	6.838	6.868	VV	524	5894	0.07%	0.003%
55	6.886	6.868	6.904	VV	1180	13494	0.16%	0.008%
56	6.920	6.904	6.944	VV	424	4773	0.06%	0.003%
57	6.959	6.944	6.983	VV	645	6307	0.07%	0.004%
58	7.004	6.983	7.010	PV	186	1824	0.02%	0.001%
59	7.020	7.015	7.038	VV	235	2021	0.02%	0.001%
60	7.060	7.038	7.083	VV	324	4807	0.06%	0.003%
61	7.118	7.103	7.157	VV	333	5717	0.07%	0.003%
62	7.188	7.157	7.199	VV	682	7889	0.09%	0.005%
63	7.217	7.199	7.248	VV	3357	50389	0.60%	0.029%
64	7.268	7.248	7.323	VV	15478	175979	2.09%	0.102%
65	7.366	7.323	7.435	VV	701061	7094223	84.20%	4.128%
66	7.453	7.435	7.474	VV	887	17245	0.20%	0.010%
67	7.479	7.474	7.485	VV	733	4695	0.06%	0.003%
68	7.502	7.485	7.517	VV	2106	24871	0.30%	0.014%
69	7.534	7.517	7.549	VV	3217	39768	0.47%	0.023%
70	7.565	7.549	7.580	VV	2985	39119	0.46%	0.023%
71	7.591	7.580	7.625	VV	2075	32737	0.39%	0.019%
72	7.642	7.625	7.659	VV	1914	23346	0.28%	0.014%
73	7.677	7.659	7.699	VV	1491	20639	0.24%	0.012%
74	7.740	7.699	7.753	VV	1057	20042	0.24%	0.012%
75	7.767	7.753	7.789	VV	927	12594	0.15%	0.007%
76	7.812	7.799	7.822	VV	241	2331	0.03%	0.001%
77	7.850	7.822	7.874	VV	929	14301	0.17%	0.008%
78	7.891	7.874	7.903	VV	476	6402	0.08%	0.004%
79	7.910	7.903	7.924	VV	470	4601	0.05%	0.003%
80	7.942	7.924	7.960	VV	1257	14854	0.18%	0.009%
81	7.993	7.960	8.045	VV	728249	7304864	86.70%	4.250%
82	8.050	8.045	8.072	VV	1420	18568	0.22%	0.011%
83	8.093	8.072	8.099	VV	1278	18092	0.21%	0.011%
84	8.102	8.099	8.162	VV	1338	27348	0.32%	0.016%
85	8.170	8.162	8.190	VV	549	6755	0.08%	0.004%
86	8.204	8.190	8.233	VV	396	7109	0.08%	0.004%
87	8.252	8.233	8.276	VV	802	11487	0.14%	0.007%
88	8.309	8.276	8.329	VV	387	7982	0.09%	0.005%
89	8.347	8.329	8.370	VV	290	4867	0.06%	0.003%

Instrument :
FID_F
ClientSampleId :
B-110-SB01MSD

Manual IntegrationsAPPROVED

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rteres

90	8.379	8.370	8.415	VV	159	2955	0.04%	0.002%
91	8.457	8.425	8.492	VV	542	10818		
92	8.502	8.492	8.518	VV	230	2600		
93	8.559	8.518	8.607	VV	98118	1027981	12	
94	8.625	8.607	8.633	VV	287	3382		
95	8.668	8.633	8.740	VV	764390	7998117	94	
96	8.749	8.740	8.779	VV	1265	22854	0.27%	0.013%
97	8.793	8.779	8.834	VV	1225	22596	0.27%	0.013%
98	8.866	8.834	8.913	VV	452065	4676658	55.51%	2.721%
99	8.920	8.913	8.935	VV	2410	27647	0.33%	0.016%
100	8.968	8.935	9.043	VV	826047	8424964	100.00%	4.902%
101	9.048	9.043	9.059	VV	1455	13542	0.16%	0.008%
102	9.074	9.059	9.088	VV	1506	24197	0.29%	0.014%
103	9.099	9.088	9.146	VV	1446	38891	0.46%	0.023%
104	9.165	9.146	9.181	VV	717	12538	0.15%	0.007%
105	9.214	9.181	9.225	VV	749	15211	0.18%	0.009%
106	9.242	9.225	9.260	VV	1536	21665	0.26%	0.013%
107	9.286	9.260	9.348	VV	55325	630486	7.48%	0.367%
108	9.365	9.348	9.380	VV	1775	24129	0.29%	0.014%
109	9.401	9.380	9.421	VV	2100	33399	0.40%	0.019%
110	9.436	9.421	9.458	VV	1559	20814	0.25%	0.012%
111	9.474	9.458	9.500	VV	585	8203	0.10%	0.005%
112	9.522	9.500	9.550	VV	440	6471	0.08%	0.004%
113	9.573	9.550	9.593	VV	540	8178	0.10%	0.005%
114	9.608	9.593	9.653	VV	446	8888	0.11%	0.005%
115	9.672	9.653	9.680	VV	382	4429	0.05%	0.003%
116	9.688	9.680	9.704	VV	378	3927	0.05%	0.002%
117	9.757	9.717	9.870	VV	786630	8361926	99.25%	4.865%
118	9.891	9.870	9.927	VV	797	20433	0.24%	0.012%
119	9.965	9.927	9.989	VV	12057	145255	1.72%	0.085%
120	10.000	9.989	10.008	VV	1023	9823	0.12%	0.006%
121	10.031	10.008	10.132	VV	40033	475997	5.65%	0.277%
122	10.164	10.132	10.202	VV	93852	1046963	12.43%	0.609%
123	10.206	10.202	10.217	VV	362	2827	0.03%	0.002%
124	10.234	10.217	10.254	VV	473	8597	0.10%	0.005%
125	10.257	10.254	10.290	VV	367	5437	0.06%	0.003%
126	10.304	10.298	10.326	VV	191	2705	0.03%	0.002%
127	10.333	10.326	10.355	VV	243	3198	0.04%	0.002%
128	10.368	10.355	10.382	VV	262	2963	0.04%	0.002%
129	10.396	10.382	10.426	VV	214	3158	0.04%	0.002%
130	10.446	10.426	10.461	VV	336	4297	0.05%	0.003%
131	10.495	10.461	10.527	VV	467	10820	0.13%	0.006%
132	10.559	10.527	10.574	VV	446	8468	0.10%	0.005%
133	10.590	10.574	10.597	VV	428	4953	0.06%	0.003%
134	10.600	10.597	10.617	VV	402	3707	0.04%	0.002%
135	10.629	10.617	10.637	VV	388	3507	0.04%	0.002%
136	10.646	10.637	10.667	VV	329	4381	0.05%	0.003%
137	10.686	10.667	10.708	VV	1051	13911	0.17%	0.008%
138	10.724	10.708	10.740	VV	342	4352	0.05%	0.003%
139	10.768	10.740	10.776	VV	458	5965	0.07%	0.003%
140	10.795	10.776	10.816	VV	500	9600	0.11%	0.006%
141	10.836	10.816	10.846	VV	597	8755	0.10%	0.005%

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rteres

142	10.853	10.846	10.874	VV	586	8011	0.10%	0.005%
143	10.903	10.874	10.922	VV	595	13311	0	
144	10.925	10.922	10.933	VV	398	2115	0	
145	10.961	10.933	11.009	VV	5972	81210	0	
146	11.035	11.009	11.085	VV	1095	22101	0	
147	11.124	11.085	11.129	VV	4213	39309	0	
148	11.162	11.129	11.204	VV	706301	8203258	97.37%	4.773%
149	11.239	11.204	11.300	VV	729034	8216070	97.52%	4.781%
150	11.306	11.300	11.355	VV	2137	49603	0.59%	0.029%
151	11.358	11.355	11.392	VV	850	13766	0.16%	0.008%
152	11.411	11.392	11.429	VV	659	11636	0.14%	0.007%
153	11.454	11.429	11.511	VV	2011	38570	0.46%	0.022%
154	11.540	11.511	11.565	VV	693	13358	0.16%	0.008%
155	11.608	11.565	11.643	VV	88706	1046967	12.43%	0.609%
156	11.653	11.643	11.665	VV	405	4227	0.05%	0.002%
157	11.687	11.665	11.722	VV	810	14281	0.17%	0.008%
158	11.769	11.722	11.790	VV	311	5431	0.06%	0.003%
159	11.804	11.790	11.828	VV	288	3900	0.05%	0.002%
160	11.929	11.873	11.982	PV	548906	6209344	73.70%	3.613%
161	11.999	11.982	12.008	VV	844	11051	0.13%	0.006%
162	12.027	12.008	12.047	VV	1238	19763	0.23%	0.011%
163	12.064	12.047	12.082	VV	1143	18369	0.22%	0.011%
164	12.089	12.082	12.100	VV	858	8712	0.10%	0.005%
165	12.106	12.100	12.109	VV	688	3236	0.04%	0.002%
166	12.112	12.109	12.124	VV	726	5076	0.06%	0.003%
167	12.139	12.124	12.171	VV	749	12510	0.15%	0.007%
168	12.176	12.171	12.189	VV	182	1929	0.02%	0.001%
169	12.212	12.189	12.217	VV	332	4435	0.05%	0.003%
170	12.270	12.217	12.304	VV	866	27798	0.33%	0.016%
171	12.331	12.304	12.357	VV	7351	93296	1.11%	0.054%
172	12.371	12.357	12.396	VV	789	10930	0.13%	0.006%
173	12.410	12.396	12.435	VV	351	6547	0.08%	0.004%
174	12.440	12.435	12.464	VV	335	3672	0.04%	0.002%
175	12.524	12.464	12.593	VV	6254	115476	1.37%	0.067%
176	12.604	12.593	12.624	VV	557	8494	0.10%	0.005%
177	12.634	12.624	12.649	VV	653	8353	0.10%	0.005%
178	12.653	12.649	12.656	VV	668	2789	0.03%	0.002%
179	12.659	12.656	12.677	VV	650	6962	0.08%	0.004%
180	12.685	12.677	12.691	VV	543	3959	0.05%	0.002%
181	12.694	12.691	12.698	VV	486	1943	0.02%	0.001%
182	12.704	12.698	12.729	VV	543	8485	0.10%	0.005%
183	12.780	12.729	12.831	VV	2703	51695	0.61%	0.030%
184	12.859	12.831	12.884	VV	1115	17846	0.21%	0.010%
185	12.919	12.884	12.947	VV	89118	1092756	12.97%	0.636%
186	12.984	12.947	13.136	VV	672133	8128430	96.48%	4.730%
187	13.164	13.136	13.232	VV	5745	80079	0.95%	0.047%
188	13.284	13.232	13.314	VV	674110	7963659	94.52%	4.634%
189	13.333	13.314	13.340	VV	7875	92228	1.09%	0.054%
190	13.364	13.340	13.401	VV	117221	1441007	17.10%	0.838%
191	13.405	13.401	13.463	VV	939	23902	0.28%	0.014%
192	13.485	13.463	13.500	VV	529	10500	0.12%	0.006%
193	13.531	13.500	13.566	VV	81028	1012732	12.02%	0.589%
194	13.585	13.566	13.627	VV	4182	77875	0.92%	0.045%

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rteres

195	13.632	13.627	13.635	VV	738	3596	0.04%	0.002%
196	13.642	13.635	13.686	VV	799	17920		
197	13.759	13.686	13.796	VV	2656	63678		
198	13.800	13.796	13.847	VV	763	17643		
199	13.873	13.847	13.889	VV	401	7901		
200	13.912	13.889	13.926	VV	481	8586		
201	13.936	13.926	13.957	VV	526	7722	0.09%	0.004%
202	13.967	13.957	13.972	VV	433	3416	0.04%	0.002%
203	13.986	13.972	14.017	VV	567	9505	0.11%	0.006%
204	14.029	14.017	14.035	VV	291	2368	0.03%	0.001%
205	14.071	14.035	14.090	VV	3623	49742	0.59%	0.029%
206	14.118	14.090	14.165	VV	80861	985268	11.69%	0.573%
207	14.172	14.165	14.204	VV	272	4041	0.05%	0.002%
208	14.226	14.204	14.255	VV	360	7130	0.08%	0.004%
209	14.282	14.255	14.309	VV	238	3881	0.05%	0.002%
210	14.335	14.318	14.345	VV	168	1981	0.02%	0.001%
211	14.360	14.356	14.403	VV	161	2543	0.03%	0.001%
212	14.408	14.403	14.435	PV	107	1196	0.01%	0.001%
213	14.452	14.435	14.469	VV	221	2985	0.04%	0.002%
214	14.476	14.469	14.492	VV	175	1893	0.02%	0.001%
215	14.513	14.492	14.532	VV	537	9016	0.11%	0.005%
216	14.556	14.532	14.599	VV	1605	28527	0.34%	0.017%
217	14.603	14.599	14.632	VV	307	4597	0.05%	0.003%
218	14.641	14.632	14.662	VV	233	2925	0.03%	0.002%
219	14.685	14.662	14.705	VV	326	5144	0.06%	0.003%
220	14.717	14.705	14.728	VV	275	2573	0.03%	0.001%
221	14.750	14.728	14.771	VV	525	8563	0.10%	0.005%
222	14.783	14.771	14.814	VV	421	8248	0.10%	0.005%
223	14.824	14.814	14.830	VV	341	2950	0.04%	0.002%
224	14.848	14.830	14.874	VV	455	7684	0.09%	0.004%
225	14.889	14.881	14.918	VV	271	3778	0.04%	0.002%
226	14.929	14.918	14.937	VV	158	1607	0.02%	0.001%
227	14.960	14.953	14.966	VV	169	1055	0.01%	0.001%
228	14.976	14.966	14.984	VV	228	1873	0.02%	0.001%
229	15.006	14.984	15.017	VV	311	4921	0.06%	0.003%
230	15.034	15.017	15.042	VV	335	4205	0.05%	0.002%
231	15.062	15.042	15.110	VV	760	13211	0.16%	0.008%
232	15.164	15.110	15.184	VV	545278	7366955	87.44%	4.287%
233	15.210	15.184	15.255	VV	639909	8293793	98.44%	4.826%
234	15.266	15.255	15.349	VV	2383	56460	0.67%	0.033%
235	15.355	15.349	15.362	VV	363	2725	0.03%	0.002%
236	15.364	15.362	15.374	VV	362	2464	0.03%	0.001%
237	15.394	15.374	15.425	VV	691	15246	0.18%	0.009%
238	15.428	15.425	15.489	VV	479	9935	0.12%	0.006%
239	15.520	15.489	15.560	VV	622	13644	0.16%	0.008%
240	15.600	15.560	15.715	VV	16885	302127	3.59%	0.176%
241	15.762	15.715	15.788	VV	1690	34001	0.40%	0.020%
242	15.805	15.788	15.821	VV	358	5808	0.07%	0.003%
243	15.825	15.821	15.842	VV	276	3002	0.04%	0.002%
244	15.846	15.842	15.856	VV	296	2292	0.03%	0.001%
245	15.877	15.856	15.899	VV	358	7310	0.09%	0.004%
246	15.903	15.899	15.908	VV	220	1146	0.01%	0.001%

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rteres

247	15.916	15.908	15.930	VV	219	2547	0.03%	0.001%
248	15.959	15.930	15.995	VV	386	8311		
249	16.021	15.995	16.036	VV	192	3859		
250	16.076	16.036	16.095	VV	624	13420		
251	16.121	16.095	16.158	VV	561	14358		
252	16.170	16.158	16.190	VV	352	5381		
253	16.248	16.190	16.289	VV	67323	900556	10.69%	0.524%
254	16.310	16.289	16.342	VV	461	6982	0.08%	0.004%
255	16.386	16.366	16.410	VV	236	3427	0.04%	0.002%
256	16.419	16.410	16.453	VV	146	2826	0.03%	0.002%
257	16.480	16.453	16.512	VV	413	5478	0.07%	0.003%
258	16.619	16.575	16.649	VV	1398	25668	0.30%	0.015%
259	16.653	16.649	16.658	VV	330	1598	0.02%	0.001%
260	16.665	16.658	16.672	VV	303	2277	0.03%	0.001%
261	16.725	16.672	16.740	VV	464795	7189481	85.34%	4.183%
262	16.761	16.740	16.795	VV	577250	7205896	85.53%	4.193%
263	16.810	16.795	16.840	VV	2877	49448	0.59%	0.029%
264	16.863	16.840	16.942	VV	2173	57965	0.69%	0.034%
265	16.969	16.942	17.012	VV	2295	38083	0.45%	0.022%
266	17.037	17.012	17.059	VV	506	10782	0.13%	0.006%
267	17.107	17.059	17.164	VV	500595	6922187	82.16%	4.028%
268	17.197	17.164	17.229	VV	67941	936916	11.12%	0.545%
269	17.247	17.229	17.360	VV	2220	46976	0.56%	0.027%
270	17.385	17.360	17.409	VV	195	3506	0.04%	0.002%
271	17.429	17.409	17.453	VV	162	2633	0.03%	0.002%
272	17.464	17.453	17.477	PV	141	1376	0.02%	0.001%
273	17.483	17.477	17.497	VV	142	1153	0.01%	0.001%
274	17.532	17.505	17.546	VV	474	7513	0.09%	0.004%
275	17.562	17.546	17.587	VV	737	13249	0.16%	0.008%
276	17.593	17.587	17.600	VV	429	3296	0.04%	0.002%
277	17.606	17.600	17.620	VV	453	4603	0.05%	0.003%
278	17.648	17.620	17.705	VV	1631	29520	0.35%	0.017%
279	17.741	17.705	17.746	VV	505	6531	0.08%	0.004%
280	17.749	17.746	17.775	VV	445	5399	0.06%	0.003%
281	17.790	17.775	17.796	VV	157	1531	0.02%	0.001%
282	17.819	17.796	17.849	VV	396	7666	0.09%	0.004%
283	17.872	17.849	17.882	VV	241	3238	0.04%	0.002%
284	17.885	17.882	17.897	VV	156	1078	0.01%	0.001%
285	17.978	17.904	17.999	VV	796	18426	0.22%	0.011%
286	18.015	17.999	18.028	VV	248	3542	0.04%	0.002%
287	18.088	18.028	18.124	VV	61135	848247	10.07%	0.494%
288	18.177	18.124	18.212	VV	2041	35430	0.42%	0.021%
289	18.265	18.212	18.289	VV	334	9503	0.11%	0.006%
290	18.320	18.296	18.341	PV	279	3829	0.05%	0.002%
291	18.371	18.341	18.395	VV	374	5699	0.07%	0.003%
292	18.482	18.395	18.496	PV	464612	7480566	88.79%	4.353%
293	18.521	18.496	18.684	VV	498043	6863313	81.46%	3.993%
294	18.741	18.684	18.800	PBA	476471	7112803	84.43%	4.139%

Sum of corrected areas: 171863872

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	B-110-SB01MSD	SDG No.:	Q1194
Lab Sample ID:	Q1194-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015192.D	1	01/28/25	01/28/25	PB166218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	8.23		0.43	1.13	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.39		0.27	0.75	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	11.1		0.34	1.13	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	14.5		0.90	1.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	24.5		2.04	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.0		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1194-01MSD	Acq On:	28 Jan 2025 20:08
Client Sample ID:	B-110-SB01MSD	Operator:	YP\AJ
Data file:	FG015192.D	Misc:	
Instrument:	FID_G	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.178	6.820	14513284	109.214	300	ug/ml
Aliphatic C12-C16	6.821	10.273	13835543	97.979	200	ug/ml
Aliphatic C16-C21	10.274	13.656	21260708	147.114	300	ug/ml
Aliphatic C21-C28	13.657	17.330	26335525	192.641	400	ug/ml
Aliphatic C28-C40	17.331	22.272	34291567	324.76	600	ug/ml
Aliphatic EPH	3.178	22.272	110236627	871.708		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.384	13.384	4747788	38.99		ug/ml
Aliphatic C9-C28	3.178	17.330	75945060	546.948	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015192.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 20:08
Operator : YP\AJ
Sample : Q1194-01MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB01MSD

Integration File: autoint1.e
Quant Time: Jan 29 02:37:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	13.384	4747788	38.992 ug/ml
Spiked Amount	50.000		Recovery =	77.98%
	Target Compounds			
1) T	n-Nonane (C9)	3.281	3675308	28.308 ug/ml
2) T	n-Decane (C10)	4.541	4689973	35.292 ug/ml
4) T	n-Dodecane (C12)	6.722	5539136	40.746 ug/ml
6) T	n-Tetradecane (C14)	8.560	6210666	45.161 ug/ml
7) T	n-Hexadecane (C16)	10.174	6633343	45.780 ug/ml
8) T	n-Octadecane (C18)	11.625	6871558	46.233 ug/ml
10) T	n-Eicosane (C20)	12.940	7062344	49.203 ug/ml
11) T	n-Heneicosane (C21)	13.554	6767261	47.861 ug/ml
13) T	n-Docosane (C22)	14.143	6727990	47.852 ug/ml
14) T	n-Tetracosane (C24)	15.251	6588166	47.334 ug/ml
15) T	n-Hexacosane (C26)	16.276	6395464	47.217 ug/ml
16) T	n-Octacosane (C28)	17.228	6188056	47.023 ug/ml
17) T	n-Tricontane (C30)	18.120	6118034	46.119 ug/ml
18) T	n-Dotriacontane (C32)	18.954	5912017	46.875 ug/ml
19) T	n-Tetratriacontane (C34)	19.739	5662362	52.004 ug/ml
20) T	n-Hexatriacontane (C36)	20.481	5260571	56.346 ug/ml
21) T	n-Octatriacontane (C38)	21.231	4965606	56.585 ug/ml
22) T	n-Tetracontane (C40)	22.170	4762240	56.183 ug/ml

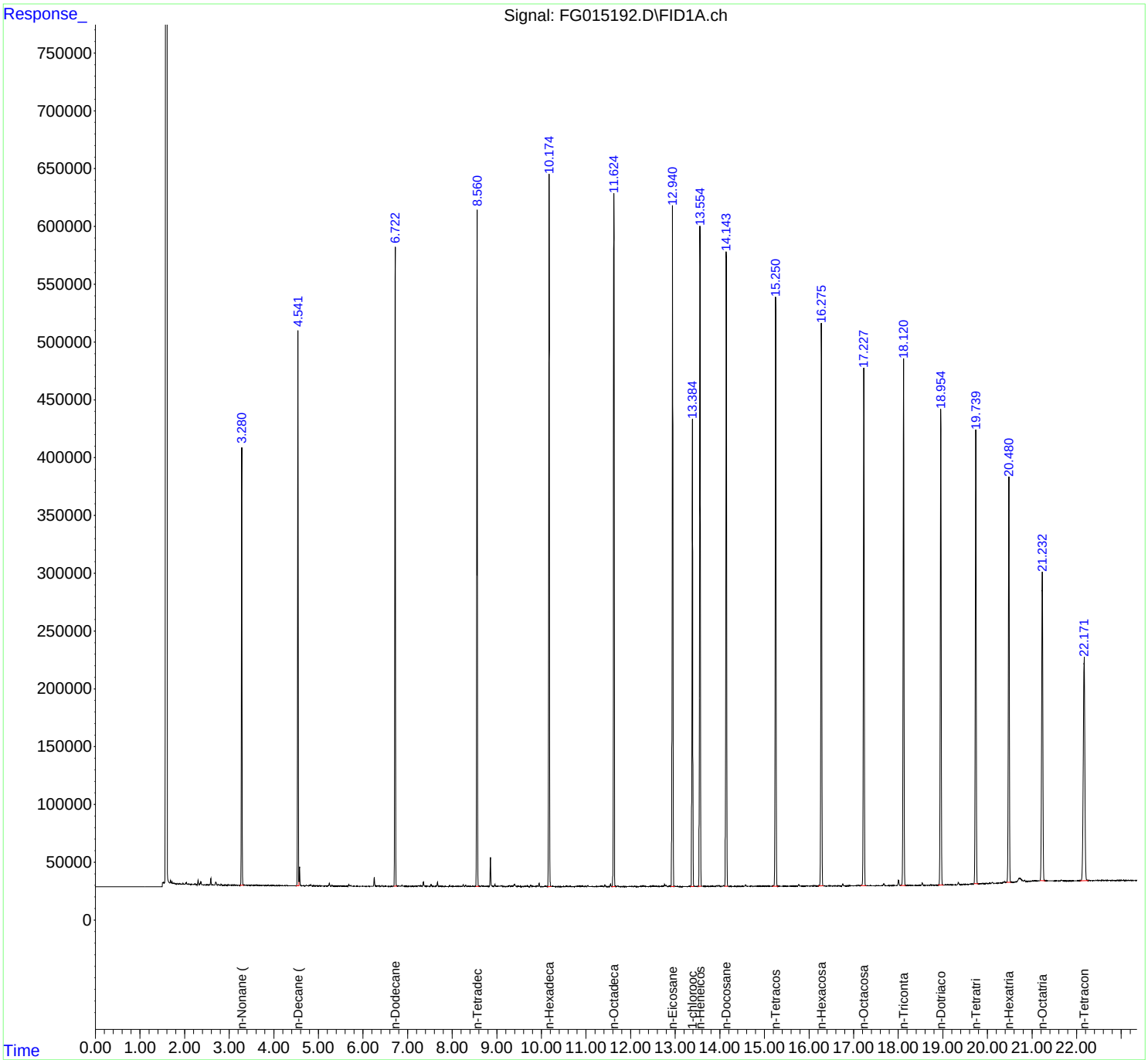
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015192.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 20:08
Operator : YP\AJ
Sample : Q1194-01MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_G
ClientSampleId :
B-110-SB01MSD

Integration File: autoint1.e
Quant Time: Jan 29 02:37:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Quant Title : GC Extractables
QLast Update : Tue Jan 14 11:45:29 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_G\Data\FG012825AL\
Data File : FG015192.D
Signal(s) : FID1A.ch
Acq On : 28 Jan 2025 20:08
Sample : Q1194-01MSD
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_G\Method\Aliphatic EPH 011425.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.281	3.221	3.410	BV	378772	3683800	52.11%	3.203%
2	3.425	3.410	3.480	VV	219	4640	0.07%	0.004%
3	3.493	3.480	3.510	VV	184	2705	0.04%	0.002%
4	3.526	3.510	3.545	VV	223	3113	0.04%	0.003%
5	3.565	3.545	3.581	VV	155	2324	0.03%	0.002%
6	3.598	3.581	3.608	VV	254	3233	0.05%	0.003%
7	3.621	3.608	3.637	VV	327	4061	0.06%	0.004%
8	3.654	3.637	3.664	VV	287	3547	0.05%	0.003%
9	3.673	3.664	3.711	VV	266	3500	0.05%	0.003%
10	3.730	3.711	3.744	PV	185	1900	0.03%	0.002%
11	3.760	3.744	3.785	VV	451	4714	0.07%	0.004%
12	3.792	3.785	3.850	VV	89	1538	0.02%	0.001%
13	3.878	3.850	3.944	VV	420	7109	0.10%	0.006%
14	3.964	3.944	4.032	VV	165	3701	0.05%	0.003%
15	4.079	4.032	4.094	PV	308	5060	0.07%	0.004%
16	4.113	4.094	4.150	VV	635	7823	0.11%	0.007%
17	4.161	4.150	4.175	VV	69	968	0.01%	0.001%
18	4.190	4.175	4.238	VV	171	3582	0.05%	0.003%
19	4.283	4.238	4.342	VV	473	12684	0.18%	0.011%
20	4.350	4.342	4.424	VV	120	4531	0.06%	0.004%
21	4.438	4.424	4.481	VV	158	4101	0.06%	0.004%
22	4.487	4.481	4.496	VV	141	1138	0.02%	0.001%
23	4.541	4.496	4.565	VV	480870	4698816	66.47%	4.086%
24	4.577	4.565	4.641	VV	16597	166890	2.36%	0.145%
25	4.669	4.641	4.698	VV	343	7354	0.10%	0.006%
26	4.730	4.698	4.778	VV	858	14388	0.20%	0.013%
27	4.792	4.778	4.809	VV	641	7395	0.10%	0.006%
28	4.826	4.809	4.865	VV	1198	15934	0.23%	0.014%
29	4.871	4.865	4.895	VV	158	2406	0.03%	0.002%
30	4.909	4.895	4.941	VV	204	4501	0.06%	0.004%
31	4.957	4.941	4.982	VV	268	4712	0.07%	0.004%
32	4.990	4.982	5.025	VV	186	3464	0.05%	0.003%
33	5.049	5.025	5.092	VV	205	5289	0.07%	0.005%
34	5.111	5.092	5.136	VV	121	2018	0.03%	0.002%
35	5.157	5.136	5.195	PV	206	4083	0.06%	0.004%
36	5.246	5.195	5.280	VV	2658	36018	0.51%	0.031%

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37	5.307	5.280	5.347	VV	568	8113	0.11%	0.007%
38	5.362	5.347	5.381	VV	80	1158	0.02%	0.001%
39	5.387	5.381	5.401	VV	62	392	0.01%	0.000%
40	5.425	5.401	5.437	VV	76	890	0.01%	0.001%
41	5.455	5.437	5.477	VV	183	2156	0.03%	0.002%
42	5.494	5.477	5.551	VV	200	3747	0.05%	0.003%
43	5.558	5.551	5.604	VV	103	2048	0.03%	0.002%
44	5.640	5.604	5.661	VV	122	2663	0.04%	0.002%
45	5.683	5.661	5.705	VV	1767	19087	0.27%	0.017%
46	5.728	5.705	5.754	VV	893	10830	0.15%	0.009%
47	5.789	5.754	5.841	VV	247	4892	0.07%	0.004%
48	5.874	5.841	5.965	VV	230	6357	0.09%	0.006%
49	5.995	5.965	6.021	VV	196	3464	0.05%	0.003%
50	6.029	6.021	6.044	VV	78	875	0.01%	0.001%
51	6.052	6.044	6.058	VV	77	501	0.01%	0.000%
52	6.068	6.058	6.088	VV	92	1272	0.02%	0.001%
53	6.097	6.088	6.134	VV	93	1477	0.02%	0.001%
54	6.167	6.134	6.194	PV	98	2999	0.04%	0.003%
55	6.215	6.194	6.227	VV	152	2314	0.03%	0.002%
56	6.253	6.227	6.299	VV	7753	85492	1.21%	0.074%
57	6.319	6.299	6.336	VV	412	6129	0.09%	0.005%
58	6.364	6.336	6.397	VV	772	12061	0.17%	0.010%
59	6.427	6.397	6.473	VV	480	10114	0.14%	0.009%
60	6.504	6.473	6.574	VV	312	11006	0.16%	0.010%
61	6.605	6.574	6.623	VV	183	3953	0.06%	0.003%
62	6.640	6.623	6.668	VV	181	3312	0.05%	0.003%
63	6.722	6.668	6.791	VV	549359	5554585	78.57%	4.830%
64	6.807	6.791	6.831	VV	603	8357	0.12%	0.007%
65	6.844	6.831	6.855	VV	386	3887	0.05%	0.003%
66	6.875	6.855	6.896	VV	1162	14096	0.20%	0.012%
67	6.911	6.896	6.930	VV	368	4657	0.07%	0.004%
68	6.949	6.930	6.975	VV	466	5904	0.08%	0.005%
69	6.984	6.975	7.024	VV	109	2589	0.04%	0.002%
70	7.050	7.024	7.075	VV	254	4298	0.06%	0.004%
71	7.086	7.075	7.102	VV	136	1998	0.03%	0.002%
72	7.116	7.102	7.157	VV	152	3455	0.05%	0.003%
73	7.177	7.157	7.211	VV	510	6895	0.10%	0.006%
74	7.233	7.211	7.246	VV	659	9101	0.13%	0.008%
75	7.255	7.246	7.269	VV	549	6361	0.09%	0.006%
76	7.289	7.269	7.328	VV	568	13105	0.19%	0.011%
77	7.354	7.328	7.386	VV	4056	52598	0.74%	0.046%
78	7.399	7.386	7.421	VV	361	4963	0.07%	0.004%
79	7.447	7.421	7.501	VV	320	9455	0.13%	0.008%
80	7.527	7.501	7.555	VV	1985	23542	0.33%	0.020%
81	7.587	7.555	7.597	VV	266	4373	0.06%	0.004%
82	7.608	7.597	7.620	VV	294	3002	0.04%	0.003%
83	7.636	7.620	7.647	VV	403	4636	0.07%	0.004%
84	7.671	7.647	7.698	VV	3784	42143	0.60%	0.037%
85	7.734	7.698	7.749	VV	414	7079	0.10%	0.006%
86	7.764	7.749	7.784	VV	458	5376	0.08%	0.005%
87	7.795	7.784	7.819	VV	135	2186	0.03%	0.002%
88	7.846	7.819	7.875	VV	249	4383	0.06%	0.004%
89	7.883	7.875	7.911	VV	108	1153	0.02%	0.001%

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90	7.938	7.911	7.968	PV	819	9558	0.14%	0.008%
91	7.988	7.968	8.002	VV	161	2116	0.03%	0.002%
92	8.016	8.002	8.025	VV	214	2431	0.03%	0.002%
93	8.037	8.025	8.067	VV	219	3488	0.05%	0.003%
94	8.102	8.067	8.118	VV	300	6168	0.09%	0.005%
95	8.134	8.118	8.147	VV	370	4666	0.07%	0.004%
96	8.158	8.147	8.183	VV	326	5024	0.07%	0.004%
97	8.201	8.183	8.225	VV	427	5761	0.08%	0.005%
98	8.247	8.225	8.272	VV	1667	19790	0.28%	0.017%
99	8.304	8.272	8.326	VV	1380	17110	0.24%	0.015%
100	8.342	8.326	8.360	VV	207	3604	0.05%	0.003%
101	8.375	8.360	8.392	VV	431	4816	0.07%	0.004%
102	8.405	8.392	8.441	VV	274	4761	0.07%	0.004%
103	8.461	8.441	8.490	VV	686	9430	0.13%	0.008%
104	8.503	8.490	8.525	VV	204	3206	0.05%	0.003%
105	8.559	8.525	8.630	VV	584395	6225818	88.07%	5.414%
106	8.657	8.630	8.689	VV	735	15732	0.22%	0.014%
107	8.707	8.689	8.731	VV	426	6995	0.10%	0.006%
108	8.752	8.731	8.774	VV	408	5981	0.08%	0.005%
109	8.793	8.774	8.825	VV	450	6102	0.09%	0.005%
110	8.859	8.825	8.905	PV	25327	269808	3.82%	0.235%
111	8.907	8.905	8.929	VV	504	5368	0.08%	0.005%
112	8.959	8.929	8.994	VV	1855	27434	0.39%	0.024%
113	9.020	8.994	9.037	VV	519	9555	0.14%	0.008%
114	9.052	9.037	9.068	VV	554	7386	0.10%	0.006%
115	9.099	9.068	9.139	VV	1033	22450	0.32%	0.020%
116	9.163	9.139	9.192	VV	405	6454	0.09%	0.006%
117	9.218	9.192	9.241	PV	337	4742	0.07%	0.004%
118	9.255	9.241	9.263	VV	276	2956	0.04%	0.003%
119	9.284	9.263	9.303	VV	979	13444	0.19%	0.012%
120	9.323	9.303	9.368	VV	847	20944	0.30%	0.018%
121	9.402	9.368	9.458	VV	1935	47407	0.67%	0.041%
122	9.476	9.458	9.496	VV	532	6547	0.09%	0.006%
123	9.524	9.496	9.553	VV	384	5549	0.08%	0.005%
124	9.575	9.553	9.593	VV	216	2971	0.04%	0.003%
125	9.629	9.593	9.661	VV	292	8747	0.12%	0.008%
126	9.690	9.661	9.730	VV	724	12627	0.18%	0.011%
127	9.760	9.730	9.791	VV	1476	23987	0.34%	0.021%
128	9.809	9.791	9.837	VV	871	11355	0.16%	0.010%
129	9.851	9.837	9.874	VV	255	3526	0.05%	0.003%
130	9.903	9.874	9.926	VV	834	13559	0.19%	0.012%
131	9.949	9.926	9.982	VV	3106	35988	0.51%	0.031%
132	10.010	9.982	10.023	VV	265	3075	0.04%	0.003%
133	10.040	10.023	10.051	VV	199	1982	0.03%	0.002%
134	10.103	10.051	10.127	VV	580	13728	0.19%	0.012%
135	10.174	10.127	10.228	VV	610614	6639007	93.91%	5.773%
136	10.244	10.228	10.304	VV	383	11155	0.16%	0.010%
137	10.318	10.304	10.329	VV	194	1931	0.03%	0.002%
138	10.342	10.329	10.378	VV	168	2933	0.04%	0.003%
139	10.388	10.378	10.404	VV	53	657	0.01%	0.001%
140	10.453	10.404	10.468	PV	245	4241	0.06%	0.004%
141	10.492	10.468	10.525	VV	324	7315	0.10%	0.006%

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142	10.566	10.525	10.585	VV	528	11255	0.16%	0.010%
143	10.605	10.585	10.625	VV	397	6812	0.10%	0.006%
144	10.652	10.625	10.673	VV	317	6736	0.10%	0.006%
145	10.686	10.673	10.747	VV	209	5977	0.08%	0.005%
146	10.777	10.747	10.789	VV	422	5969	0.08%	0.005%
147	10.809	10.789	10.828	VV	349	6508	0.09%	0.006%
148	10.849	10.828	10.877	VV	559	11545	0.16%	0.010%
149	10.913	10.877	10.950	VV	874	19611	0.28%	0.017%
150	10.970	10.950	11.018	VV	451	13170	0.19%	0.011%
151	11.042	11.018	11.068	VV	1032	17777	0.25%	0.015%
152	11.083	11.068	11.121	VV	261	7085	0.10%	0.006%
153	11.134	11.121	11.158	VV	268	4627	0.07%	0.004%
154	11.168	11.158	11.181	VV	189	2182	0.03%	0.002%
155	11.198	11.181	11.212	VV	217	3205	0.05%	0.003%
156	11.240	11.212	11.267	VV	359	8015	0.11%	0.007%
157	11.288	11.267	11.305	VV	486	7005	0.10%	0.006%
158	11.341	11.305	11.361	VV	588	11658	0.16%	0.010%
159	11.370	11.361	11.389	VV	279	3695	0.05%	0.003%
160	11.422	11.389	11.465	VV	1674	23116	0.33%	0.020%
161	11.482	11.465	11.521	VV	101	2891	0.04%	0.003%
162	11.551	11.521	11.582	VV	2476	34471	0.49%	0.030%
163	11.624	11.582	11.693	VV	600074	6885433	97.40%	5.987%
164	11.716	11.693	11.748	VV	836	12760	0.18%	0.011%
165	11.759	11.748	11.765	VV	106	644	0.01%	0.001%
166	11.774	11.765	11.792	VV	159	1162	0.02%	0.001%
167	11.844	11.792	11.872	PV	150	3042	0.04%	0.003%
168	11.937	11.872	11.995	VV	291	13834	0.20%	0.012%
169	12.011	11.995	12.055	VV	478	10749	0.15%	0.009%
170	12.076	12.055	12.128	VV	443	10901	0.15%	0.009%
171	12.139	12.128	12.161	VV	166	2538	0.04%	0.002%
172	12.286	12.161	12.317	VV	765	32463	0.46%	0.028%
173	12.338	12.317	12.362	VV	376	7503	0.11%	0.007%
174	12.384	12.362	12.405	VV	242	5221	0.07%	0.005%
175	12.427	12.405	12.469	VV	378	10928	0.15%	0.010%
176	12.513	12.469	12.545	VV	795	21933	0.31%	0.019%
177	12.578	12.545	12.604	VV	627	13369	0.19%	0.012%
178	12.624	12.604	12.648	VV	507	8683	0.12%	0.008%
179	12.669	12.648	12.688	VV	245	4862	0.07%	0.004%
180	12.705	12.688	12.714	VV	297	4453	0.06%	0.004%
181	12.759	12.714	12.780	VV	2015	36326	0.51%	0.032%
182	12.796	12.780	12.847	VV	1309	20213	0.29%	0.018%
183	12.875	12.847	12.901	VV	985	13448	0.19%	0.012%
184	12.940	12.901	12.984	VV	588537	7069190	100.00%	6.147%
185	12.998	12.984	13.027	VV	406	7083	0.10%	0.006%
186	13.053	13.027	13.170	VV	317	9306	0.13%	0.008%
187	13.228	13.170	13.244	PV	217	6957	0.10%	0.006%
188	13.256	13.244	13.277	VV	174	2484	0.04%	0.002%
189	13.302	13.277	13.320	VV	230	4444	0.06%	0.004%
190	13.336	13.320	13.343	VV	266	3097	0.04%	0.003%
191	13.384	13.343	13.423	VV	401258	4758420	67.31%	4.138%
192	13.433	13.423	13.467	VV	333	6942	0.10%	0.006%
193	13.495	13.467	13.510	VV	344	6885	0.10%	0.006%
194	13.554	13.510	13.593	VV	571768	6781197	95.93%	5.896%

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195	13.606	13.593	13.665	VV	376	12271	0.17%	0.011%
196	13.671	13.665	13.698	VV	262	3711	0.05%	0.003%
197	13.709	13.698	13.715	VV	161	1365	0.02%	0.001%
198	13.751	13.715	13.790	VV	321	10040	0.14%	0.009%
199	13.828	13.790	13.871	VV	421	13798	0.20%	0.012%
200	13.899	13.871	13.910	VV	327	4559	0.06%	0.004%
201	13.931	13.910	13.958	VV	769	12598	0.18%	0.011%
202	13.981	13.958	14.058	VV	1141	25626	0.36%	0.022%
203	14.085	14.058	14.105	VV	1004	15359	0.22%	0.013%
204	14.143	14.105	14.253	VV	552961	6744486	95.41%	5.865%
205	14.269	14.253	14.303	VV	208	2799	0.04%	0.002%
206	14.322	14.303	14.332	PV	106	1062	0.02%	0.001%
207	14.370	14.332	14.422	VV	260	7404	0.10%	0.006%
208	14.439	14.422	14.458	VV	171	2426	0.03%	0.002%
209	14.469	14.458	14.507	VV	184	3454	0.05%	0.003%
210	14.576	14.507	14.678	VV	1479	31337	0.44%	0.027%
211	14.703	14.678	14.747	VV	499	9564	0.14%	0.008%
212	14.762	14.747	14.771	VV	188	2205	0.03%	0.002%
213	14.786	14.771	14.798	VV	182	2779	0.04%	0.002%
214	14.807	14.798	14.817	VV	188	1918	0.03%	0.002%
215	14.838	14.817	14.881	VV	241	7726	0.11%	0.007%
216	14.912	14.881	14.935	VV	276	6544	0.09%	0.006%
217	14.986	14.935	14.994	VV	240	7215	0.10%	0.006%
218	15.020	14.994	15.037	VV	303	6353	0.09%	0.006%
219	15.051	15.037	15.078	VV	259	5469	0.08%	0.005%
220	15.102	15.078	15.143	VV	364	7731	0.11%	0.007%
221	15.156	15.143	15.163	VV	131	1296	0.02%	0.001%
222	15.202	15.163	15.210	VV	767	10572	0.15%	0.009%
223	15.251	15.210	15.351	VV	511509	6594067	93.28%	5.734%
224	15.357	15.351	15.395	VV	87	1185	0.02%	0.001%
225	15.423	15.395	15.460	VV	171	4196	0.06%	0.004%
226	15.475	15.460	15.538	VV	135	3812	0.05%	0.003%
227	15.551	15.538	15.605	VV	99	2599	0.04%	0.002%
228	15.675	15.605	15.708	VV	232	7071	0.10%	0.006%
229	15.768	15.708	15.852	VV	1466	28666	0.41%	0.025%
230	15.860	15.852	15.870	VV	115	891	0.01%	0.001%
231	15.901	15.870	15.928	VV	149	3497	0.05%	0.003%
232	15.946	15.928	16.028	VV	243	9084	0.13%	0.008%
233	16.085	16.028	16.107	VV	287	8506	0.12%	0.007%
234	16.135	16.107	16.161	VV	299	7552	0.11%	0.007%
235	16.165	16.161	16.198	VV	283	3579	0.05%	0.003%
236	16.275	16.198	16.353	VV	485116	6411422	90.70%	5.575%
237	16.365	16.353	16.390	VV	116	1696	0.02%	0.001%
238	16.413	16.390	16.422	PV	125	1261	0.02%	0.001%
239	16.453	16.422	16.475	VV	224	3620	0.05%	0.003%
240	16.480	16.475	16.515	VV	151	1798	0.03%	0.002%
241	16.524	16.515	16.538	VV	69	417	0.01%	0.000%
242	16.587	16.538	16.622	VV	126	3786	0.05%	0.003%
243	16.637	16.622	16.668	VV	164	2677	0.04%	0.002%
244	16.756	16.668	16.791	VV	1944	31933	0.45%	0.028%
245	16.799	16.791	16.870	VV	183	5817	0.08%	0.005%
246	16.881	16.870	16.891	VV	141	1207	0.02%	0.001%

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247	16.918	16.891	16.965	VV	287	9006	0.13%	0.008%
248	16.968	16.965	16.998	VV	232	3432	0.05%	0.003%
249	17.007	16.998	17.015	VV	185	1559	0.02%	0.001%
250	17.062	17.015	17.080	VV	351	8866	0.13%	0.008%
251	17.106	17.080	17.161	VV	563	18864	0.27%	0.016%
252	17.228	17.161	17.297	VV	447765	6201732	87.73%	5.393%
253	17.315	17.297	17.325	VV	203	2331	0.03%	0.002%
254	17.332	17.325	17.360	VV	169	2464	0.03%	0.002%
255	17.372	17.360	17.409	VV	177	3922	0.06%	0.003%
256	17.441	17.409	17.482	VV	126	3538	0.05%	0.003%
257	17.525	17.482	17.535	PV	146	2752	0.04%	0.002%
258	17.560	17.535	17.588	VV	142	2707	0.04%	0.002%
259	17.676	17.588	17.756	VV	1883	31351	0.44%	0.027%
260	17.784	17.756	17.804	PV	214	3428	0.05%	0.003%
261	17.823	17.804	17.875	VV	238	6002	0.08%	0.005%
262	17.912	17.875	17.948	VV	299	8307	0.12%	0.007%
263	17.958	17.948	17.973	VV	213	2544	0.04%	0.002%
264	18.006	17.973	18.043	VV	4798	71100	1.01%	0.062%
265	18.119	18.043	18.191	VV	444989	6130558	86.72%	5.331%
266	18.205	18.191	18.227	VV	237	4019	0.06%	0.003%
267	18.258	18.227	18.309	VV	265	8046	0.11%	0.007%
268	18.322	18.309	18.354	VV	80	1387	0.02%	0.001%
269	18.395	18.354	18.416	PV	178	3423	0.05%	0.003%
270	18.426	18.416	18.439	VV	96	900	0.01%	0.001%
271	18.539	18.439	18.608	VV	2243	34373	0.49%	0.030%
272	18.629	18.608	18.652	VV	141	2063	0.03%	0.002%
273	18.665	18.652	18.678	VV	102	1042	0.01%	0.001%
274	18.682	18.678	18.705	VV	101	540	0.01%	0.000%
275	18.738	18.705	18.764	PV	140	3104	0.04%	0.003%
276	18.793	18.764	18.824	VV	172	4067	0.06%	0.004%
277	18.839	18.824	18.881	VV	183	3398	0.05%	0.003%
278	18.954	18.881	19.029	VV	411901	5914524	83.67%	5.143%
279	19.061	19.029	19.078	PV	136	1919	0.03%	0.002%
280	19.099	19.078	19.147	VV	156	2982	0.04%	0.003%
281	19.157	19.147	19.177	VV	54	609	0.01%	0.001%
282	19.205	19.177	19.227	VV	110	1795	0.03%	0.002%
283	19.255	19.227	19.286	PV	68	1623	0.02%	0.001%
284	19.348	19.286	19.422	PV	2087	32294	0.46%	0.028%
285	19.462	19.422	19.473	VV	126	2374	0.03%	0.002%
286	19.536	19.473	19.561	VV	161	6810	0.10%	0.006%
287	19.601	19.561	19.615	VV	154	3765	0.05%	0.003%
288	19.666	19.615	19.688	VV	224	8016	0.11%	0.007%
289	19.739	19.688	19.818	VV	386959	5693611	80.54%	4.951%
290	19.845	19.818	19.864	VV	390	8910	0.13%	0.008%
291	19.891	19.864	19.928	VV	503	13978	0.20%	0.012%
292	19.993	19.928	20.012	VV	412	16909	0.24%	0.015%
293	20.040	20.012	20.061	VV	396	9760	0.14%	0.008%
294	20.111	20.061	20.142	VV	1267	29412	0.42%	0.026%
295	20.151	20.142	20.181	VV	392	7604	0.11%	0.007%
296	20.219	20.181	20.247	VV	475	15783	0.22%	0.014%
297	20.298	20.247	20.308	VV	557	17157	0.24%	0.015%
298	20.379	20.308	20.405	VV	1452	48526	0.69%	0.042%
299	20.481	20.405	20.551	VV	346549	5337167	75.50%	4.641%

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300	20.627	20.551	20.637	VV	915	45577	0.64%	0.040%
301	20.733	20.637	20.811	VV	3978	259343	3.67%	0.226%
302	20.836	20.811	20.888	VV	2149	69195	0.98%	0.060%
303	20.899	20.888	20.904	VV	1127	10067	0.14%	0.009%
304	20.949	20.904	20.978	VV	1265	53306	0.75%	0.046%
305	21.023	20.978	21.049	VV	1431	56692	0.80%	0.049%
306	21.124	21.049	21.165	VV	1361	90141	1.28%	0.078%
307	21.230	21.165	21.303	VV	268708	5075558	71.80%	4.413%
308	21.313	21.303	21.328	VV	1243	18475	0.26%	0.016%
309	21.338	21.328	21.401	VV	1233	49650	0.70%	0.043%
310	21.410	21.401	21.438	VV	1050	22291	0.32%	0.019%
311	21.446	21.438	21.516	VV	996	42873	0.61%	0.037%
312	21.567	21.516	21.615	VV	845	47098	0.67%	0.041%
313	21.661	21.615	21.718	VV	1251	51861	0.73%	0.045%
314	21.734	21.718	21.753	VV	561	11504	0.16%	0.010%
315	21.802	21.753	21.815	VV	533	18728	0.26%	0.016%
316	21.828	21.815	21.909	VV	532	23298	0.33%	0.020%
317	21.921	21.909	21.948	VV	400	7897	0.11%	0.007%
318	21.962	21.948	21.978	VV	353	6262	0.09%	0.005%
319	22.028	21.978	22.068	VV	466	20861	0.30%	0.018%
320	22.169	22.068	22.291	VV	190033	4800327	67.90%	4.174%
321	22.303	22.291	22.397	VV	223	8331	0.12%	0.007%
322	22.409	22.397	22.428	VV	106	1096	0.02%	0.001%

Sum of corrected areas: 115004478

Aliphatic EPH 011425.M Wed Jan 29 03:46:25 2025

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Manual Integration Report

Sequence:	FC012425AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166217BS	FC068112.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:19 AM	Ankita	1/27/2025 9:08:07	Peak Integrated by Software
PB166217BSD	FC068113.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:22 AM	Ankita	1/27/2025 9:08:09	Peak Integrated by Software
Q1169-01	FC068114.D	1-chlorooctadecane (SURR)	yogesh	1/27/2025 7:58:21 AM	Ankita	1/27/2025 9:08:11	Peak Integrated by Software
Q1169-01	FC068114.D	ortho-Terphenyl (SURR)	yogesh	1/27/2025 7:58:21 AM	Ankita	1/27/2025 9:08:11	Peak Integrated by Software
Q1169-05MS	FC068118.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:24 AM	Ankita	1/27/2025 9:08:13	Peak Integrated by Software
Q1169-05MSD	FC068119.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:25 AM	Ankita	1/27/2025 9:08:16	Peak Integrated by Software
Q1170-01	FC068120.D	1-chlorooctadecane (SURR)	yogesh	1/27/2025 7:58:26 AM	Ankita	1/27/2025 9:08:18	Peak Integrated by Software
Q1170-02	FC068121.D	1-chlorooctadecane (SURR)	yogesh	1/27/2025 7:58:28 AM	Ankita	1/27/2025 9:08:20	Peak Integrated by Software
Q1170-02	FC068121.D	ortho-Terphenyl (SURR)	yogesh	1/27/2025 7:58:28 AM	Ankita	1/27/2025 9:08:20	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Dotriacontane (C32)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Hexatriacontane (C36)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Octatriacontane (C38)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Tetracontane (C40)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC012425AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FC012825AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-07	FC068136.D	n-Tetracontane (C40)	yogesh	1/29/2025 7:59:53 AM	Ankita	1/29/2025 12:54:49	Peak Integrated by Software
Q1168-07	FC068137.D	n-Decane (C10)	yogesh	1/29/2025 7:59:55 AM	Ankita	1/29/2025 12:54:50	Peak Integrated by Software
Q1168-07	FC068137.D	n-Tetracontane (C40)	yogesh	1/29/2025 7:59:55 AM	Ankita	1/29/2025 12:54:50	Peak Integrated by Software
Q1168-08	FC068138.D	n-Octadecane (C18)	yogesh	1/29/2025 7:59:56 AM	Ankita	1/29/2025 12:54:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD012425AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
5 PPM AROMATIC HC	FD048949.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/27/2025 7:59:12 AM	Ankita	1/27/2025 9:08:52	Peak Integrated by Software
5 PPM AROMATIC HC	FD048949.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/27/2025 7:59:12 AM	Ankita	1/27/2025 9:08:52	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD012825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-07	FD048970.D	Benzo[a]pyrene (C31.34)	yogesh	1/29/2025 12:55:58 PM	Ankita	1/29/2025 2:20:48	Peak Integrated by Software
Q1168-07	FD048970.D	Benzo[g,h,i]perylene (C34.01)	yogesh	1/29/2025 12:55:58 PM	Ankita	1/29/2025 2:20:48	Peak Integrated by Software
Q1168-07	FD048970.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 12:55:58 PM	Ankita	1/29/2025 2:20:48	Peak Integrated by Software
Q1168-07	FD048970.D	Flouorene (C16.55)	yogesh	1/29/2025 12:55:58 PM	Ankita	1/29/2025 2:20:48	Peak Integrated by Software
Q1168-07	FD048970.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/29/2025 12:55:58 PM	Ankita	1/29/2025 2:20:48	Peak Integrated by Software
Q1168-07	FD048971.D	Benzo[a]pyrene (C31.34)	yogesh	1/29/2025 12:55:59 PM	Ankita	1/29/2025 2:20:50	Peak Integrated by Software
Q1168-07	FD048971.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 12:55:59 PM	Ankita	1/29/2025 2:20:50	Peak Integrated by Software
Q1168-07	FD048971.D	Chrysene (C27.41)	yogesh	1/29/2025 12:55:59 PM	Ankita	1/29/2025 2:20:50	Peak Integrated by Software
Q1168-07	FD048971.D	Flouorene (C16.55)	yogesh	1/29/2025 12:55:59 PM	Ankita	1/29/2025 2:20:50	Peak Integrated by Software
Q1168-07	FD048971.D	Fluoranthene (C21.85)	yogesh	1/29/2025 12:55:59 PM	Ankita	1/29/2025 2:20:50	Peak Integrated by Software
Q1168-08	FD048972.D	2-Methylnaphthalene (C12.89)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software
Q1168-08	FD048972.D	benzo[b]fluoranthene (C30.41)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software
Q1168-08	FD048972.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD012825AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-08	FD048972.D	Chrysene (C27.41)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software
Q1168-08	FD048972.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software
Q1168-08	FD048972.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software
Q1168-08	FD048972.D	Naphthalene (C11.7)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software
Q1168-08	FD048972.D	Phenanthrene (C19.36)	yogesh	1/29/2025 8:00:11 AM	Ankita	1/29/2025 12:55:03	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF011425AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
100 PPM AROMATIC HC	FF015238.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/15/2025 7:42:14 AM	Ankita	1/15/2025 7:46:44	Peak Integrated by Software
100 PPM AROMATIC HC	FF015238.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/15/2025 7:42:14 AM	Ankita	1/15/2025 7:46:44	Peak Integrated by Software
10 PPM AROMATIC HC	FF015241.D	Benzo[g,h,i]perylene (C34.01)	yogesh	1/15/2025 7:42:15 AM	Ankita	1/15/2025 7:46:45	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF012825AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166218BL	FF015326.D	2-Flurobiphenyl (SURR)	yogesh	1/29/2025 7:58:35 AM	Ankita	1/29/2025 9:15:24	Peak Integrated by Software
PB166218BS	FF015327.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:37 AM	Ankita	1/29/2025 9:15:26	Peak Integrated by Software
PB166218BS	FF015327.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 7:58:37 AM	Ankita	1/29/2025 9:15:26	Peak Integrated by Software
PB166218BSD	FF015328.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:38 AM	Ankita	1/29/2025 9:15:27	Peak Integrated by Software
PB166218BSD	FF015328.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 7:58:38 AM	Ankita	1/29/2025 9:15:27	Peak Integrated by Software
Q1168-01	FF015329.D	2-Methylnaphthalene (C12.89)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Benzo[g,h,i]perylene (C34.01)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Chrysene (C27.41)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Flouorene (C16.55)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Fluoranthene (C21.85)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015329.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF012825AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-01	FF015329.D	Naphthalene (C11.7)	yogesh	1/29/2025 7:58:41 AM	Ankita	1/29/2025 9:15:29	Peak Integrated by Software
Q1168-01	FF015330.D	Benzo[a]anthracene (C26.37)	yogesh	1/29/2025 7:58:42 AM	Ankita	1/29/2025 9:15:30	Peak Integrated by Software
Q1168-01	FF015330.D	benzo[b]fluoranthene (C30.41)	yogesh	1/29/2025 7:58:42 AM	Ankita	1/29/2025 9:15:30	Peak Integrated by Software
Q1168-01	FF015330.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:42 AM	Ankita	1/29/2025 9:15:30	Peak Integrated by Software
Q1168-01	FF015330.D	Chrysene (C27.41)	yogesh	1/29/2025 7:58:42 AM	Ankita	1/29/2025 9:15:30	Peak Integrated by Software
Q1168-01	FF015330.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/29/2025 7:58:42 AM	Ankita	1/29/2025 9:15:30	Peak Integrated by Software
Q1168-01	FF015330.D	Naphthalene (C11.7)	yogesh	1/29/2025 7:58:42 AM	Ankita	1/29/2025 9:15:30	Peak Integrated by Software
Q1168-02	FF015331.D	2-Methylnaphthalene (C12.89)	yogesh	1/29/2025 7:58:44 AM	Ankita	1/29/2025 9:15:32	Peak Integrated by Software
Q1168-02	FF015331.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:44 AM	Ankita	1/29/2025 9:15:32	Peak Integrated by Software
Q1168-02	FF015331.D	Chrysene (C27.41)	yogesh	1/29/2025 7:58:44 AM	Ankita	1/29/2025 9:15:32	Peak Integrated by Software
Q1168-02	FF015331.D	Flouorene (C16.55)	yogesh	1/29/2025 7:58:44 AM	Ankita	1/29/2025 9:15:32	Peak Integrated by Software
Q1168-02	FF015331.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/29/2025 7:58:44 AM	Ankita	1/29/2025 9:15:32	Peak Integrated by Software
Q1168-02	FF015331.D	Naphthalene (C11.7)	yogesh	1/29/2025 7:58:44 AM	Ankita	1/29/2025 9:15:32	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF012825AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1194-01MS	FF015334.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:46 AM	Ankita	1/29/2025 9:15:33	Peak Integrated by Software
Q1194-01MS	FF015334.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 7:58:46 AM	Ankita	1/29/2025 9:15:33	Peak Integrated by Software
Q1194-01MSD	FF015335.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/29/2025 7:58:48 AM	Ankita	1/29/2025 9:15:35	Peak Integrated by Software
Q1194-01MSD	FF015335.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/29/2025 7:58:48 AM	Ankita	1/29/2025 9:15:35	Peak Integrated by Software

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Sequence:	FF012925AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-07	FF015355.D	2-Methylnaphthalene (C12.89)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Benzo[a]pyrene (C31.34)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	benzo[b]fluoranthene (C30.41)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Bnezo[k]fluoranthene (C30.14)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Chrysene (C27.41)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Dibenz[a,h]anthracene (C30.36)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Flouorene (C16.55)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015355.D	Naphthalene (C11.7)	yogesh	1/30/2025 7:41:50 AM	Ankita	1/30/2025 9:16:11	Peak Integrated by Software
Q1168-07	FF015356.D	2-Methylnaphthalene (C12.89)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software
Q1168-07	FF015356.D	Acenaphthylene (C15.06)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software
Q1168-07	FF015356.D	Benzo[a]anthracene (C26.37)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software
Q1168-07	FF015356.D	benzo[b]fluoranthene (C30.41)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF012925AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-07	FF015356.D	Chrysene (C27.41)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software
Q1168-07	FF015356.D	Flouorene (C16.55)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software
Q1168-07	FF015356.D	Naphthalene (C11.7)	yogesh	1/30/2025 7:41:51 AM	Ankita	1/30/2025 9:16:12	Peak Integrated by Software
Q1168-08	FF015357.D	Benzo[a]anthracene (C26.37)	yogesh	1/30/2025 7:41:53 AM	Ankita	1/30/2025 9:16:13	Peak Integrated by Software
Q1168-08	FF015357.D	Flouorene (C16.55)	yogesh	1/30/2025 7:41:53 AM	Ankita	1/30/2025 9:16:13	Peak Integrated by Software
Q1168-08	FF015357.D	Indeno[1,2,3-cd]pyrene (C35.01)	yogesh	1/30/2025 7:41:53 AM	Ankita	1/30/2025 9:16:13	Peak Integrated by Software
Q1168-08	FF015357.D	Naphthalene (C11.7)	yogesh	1/30/2025 7:41:53 AM	Ankita	1/30/2025 9:16:13	Peak Integrated by Software

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Manual Integration Report

Sequence:	FG011425AL	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FG012825AL	Instrument	FID_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1168-01	FG015187.D	n-Docosane (C22)	yogesh	1/29/2025 7:59:39 AM	Ankita	1/29/2025 2:20:40	Peak Integrated by Software
20 PPM ALIPHATIC HC	FG015197.D	n-Docosane (C22)	yogesh	1/29/2025 7:59:41 AM	Ankita	1/29/2025 2:20:42	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM		
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM		
SubDirectory	FC012425AL	HP Acquire Method		HP Processing Method	FC012425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068101.D	24 Jan 2025 07:37	YP/AJ	Ok
2	I.BLK	FC068102.D	24 Jan 2025 08:12	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068103.D	24 Jan 2025 08:47	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068104.D	24 Jan 2025 09:23	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068105.D	24 Jan 2025 09:58	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068106.D	24 Jan 2025 10:34	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068107.D	24 Jan 2025 11:10	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068108.D	24 Jan 2025 11:46	YP/AJ	Ok
9	I.BLK	FC068109.D	24 Jan 2025 12:23	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068110.D	24 Jan 2025 12:59	YP/AJ	Ok
11	PB166217BL	FC068111.D	24 Jan 2025 13:36	YP/AJ	Ok
12	PB166217BS	FC068112.D	24 Jan 2025 14:12	YP/AJ	Ok,M
13	PB166217BSD	FC068113.D	24 Jan 2025 14:50	YP/AJ	Ok,M
14	Q1169-01	FC068114.D	24 Jan 2025 15:26	YP/AJ	Dilution
15	Q1169-03	FC068115.D	24 Jan 2025 16:03	YP/AJ	Ok
16	Q1169-05	FC068116.D	24 Jan 2025 16:39	YP/AJ	Ok
17	Q1169-05D	FC068117.D	24 Jan 2025 17:17	YP/AJ	Ok
18	Q1169-05MS	FC068118.D	24 Jan 2025 17:53	YP/AJ	Ok,M
19	Q1169-05MSD	FC068119.D	24 Jan 2025 18:30	YP/AJ	Ok,M
20	Q1170-01	FC068120.D	24 Jan 2025 19:06	YP/AJ	Ok,M
21	Q1170-02	FC068121.D	24 Jan 2025 19:43	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM		
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM		
SubDirectory	FC012425AL	HP Acquire Method		HP Processing Method	FC012425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	I.BLK	FC068122.D	24 Jan 2025 20:57	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068123.D	24 Jan 2025 21:33	YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC012825AL

Review By	yogesh	Review On	1/28/2025 12:54:30 PM		
Supervise By	Ankita	Supervise On	1/29/2025 12:54:55 PM		
SubDirectory	FC012825AL	HP Acquire Method		HP Processing Method	FC012425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068130.D	28 Jan 2025 09:40	YP/AJ	Ok
2	I.BLK	FC068131.D	28 Jan 2025 10:17	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068132.D	28 Jan 2025 15:06	YP/AJ	Ok
4	PB166219BL	FC068133.D	28 Jan 2025 15:42	YP/AJ	Ok
5	PB166219BS	FC068134.D	28 Jan 2025 16:18	YP/AJ	Ok
6	PB166219BSD	FC068135.D	28 Jan 2025 16:55	YP/AJ	Ok
7	Q1168-07	FC068136.D	28 Jan 2025 17:31	YP/AJ	Ok,M
8	Q1168-07	FC068137.D	28 Jan 2025 18:07	YP/AJ	Ok,M
9	Q1168-08	FC068138.D	28 Jan 2025 18:43	YP/AJ	Ok,M
10	Q1194-08	FC068139.D	28 Jan 2025 19:20	YP/AJ	Ok
11	I.BLK	FC068140.D	28 Jan 2025 20:35	YP/AJ	Ok
12	20 PPM ALIPHATIC HC STD	FC068141.D	28 Jan 2025 21:12	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD012425AR

Review By	yogesh	Review On	1/24/2025 12:21:39 PM		
Supervise By	Ankita	Supervise On	1/27/2025 9:08:56 AM		
SubDirectory	FD012425AR	HP Acquire Method		HP Processing Method	FD012425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048943.D	24 Jan 2025 07:37	YP/AJ	Ok
2	I.BLK	FD048944.D	24 Jan 2025 08:12	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048945.D	24 Jan 2025 08:47	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048946.D	24 Jan 2025 09:23	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048947.D	24 Jan 2025 09:58	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048948.D	24 Jan 2025 10:34	YP/AJ	Ok
7	5 PPM AROMATIC HC STD5	FD048949.D	24 Jan 2025 11:10	YP/AJ	Ok,M
8	20 PPM AROMATIC HC STD ICV	FD048950.D	24 Jan 2025 11:46	YP/AJ	Ok
9	I.BLK	FD048951.D	24 Jan 2025 12:23	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048952.D	24 Jan 2025 12:59	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD012825AR

Review By	yogesh	Review On	1/28/2025 12:55:24 PM		
Supervise By	Ankita	Supervise On	1/29/2025 12:55:06 PM		
SubDirectory	FD012825AR	HP Acquire Method		HP Processing Method	FD012425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FD048964.D	28 Jan 2025 09:40	YP/AJ	Ok
2	I.BLK	FD048965.D	28 Jan 2025 10:17	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048966.D	28 Jan 2025 15:06	YP/AJ	Ok
4	PB166219BL	FD048967.D	28 Jan 2025 15:42	YP/AJ	Ok
5	PB166219BS	FD048968.D	28 Jan 2025 16:18	YP/AJ	Ok
6	PB166219BSD	FD048969.D	28 Jan 2025 16:55	YP/AJ	Ok
7	Q1168-07	FD048970.D	28 Jan 2025 17:31	YP/AJ	Ok,M
8	Q1168-07	FD048971.D	28 Jan 2025 18:07	YP/AJ	Ok,M
9	Q1168-08	FD048972.D	28 Jan 2025 18:43	YP/AJ	Ok,M
10	Q1194-08	FD048973.D	28 Jan 2025 19:20	YP/AJ	Ok
11	I.BLK	FD048974.D	28 Jan 2025 20:35	YP/AJ	Ok
12	20 PPM AROMATIC HC STD	FD048975.D	28 Jan 2025 21:12	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF011425AR

Review By	yogesh	Review On	1/14/2025 2:48:03 PM		
Supervise By	Ankita	Supervise On	1/15/2025 7:46:50 AM		
SubDirectory	FF011425AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015236.D	14 Jan 2025 17:48	YP\AJ	Ok
2	I,BLK	FF015237.D	14 Jan 2025 18:17	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF015238.D	14 Jan 2025 18:45	YP\AJ	Ok,M
4	50 PPM AROMATIC HC STD2	FF015239.D	14 Jan 2025 19:13	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF015240.D	14 Jan 2025 19:42	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF015241.D	14 Jan 2025 20:10	YP\AJ	Ok,M
7	5 PPM AROMATIC HC STD5	FF015242.D	14 Jan 2025 20:39	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FF015243.D	14 Jan 2025 21:35	YP\AJ	Ok
9	I.BLK	FF015244.D	14 Jan 2025 22:04	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF015245.D	14 Jan 2025 22:32	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF012825AR

Review By	yogesh	Review On	1/28/2025 12:11:14 PM		
Supervise By	Ankita	Supervise On	1/29/2025 9:15:39 AM		
SubDirectory	FF012825AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015323.D	28 Jan 2025 10:57	YP\AJ	Ok
2	I.BLK	FF015324.D	28 Jan 2025 11:26	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF015325.D	28 Jan 2025 14:00	YP\AJ	Ok
4	PB166218BL	FF015326.D	28 Jan 2025 15:52	YP\AJ	Ok,M
5	PB166218BS	FF015327.D	28 Jan 2025 16:20	YP\AJ	Ok,M
6	PB166218BSD	FF015328.D	28 Jan 2025 16:49	YP\AJ	Ok,M
7	Q1168-01	FF015329.D	28 Jan 2025 17:17	YP\AJ	Ok,M
8	Q1168-01	FF015330.D	28 Jan 2025 17:46	YP\AJ	Ok,M
9	Q1168-02	FF015331.D	28 Jan 2025 18:14	YP\AJ	Ok,M
10	Q1194-01	FF015332.D	28 Jan 2025 18:43	YP\AJ	Ok
11	Q1194-01D	FF015333.D	28 Jan 2025 19:11	YP\AJ	Ok
12	Q1194-01MS	FF015334.D	28 Jan 2025 19:40	YP\AJ	Ok,M
13	Q1194-01MSD	FF015335.D	28 Jan 2025 20:08	YP\AJ	Ok,M
14	Q1194-02	FF015336.D	28 Jan 2025 20:37	YP\AJ	ReRun
15	Q1194-03	FF015337.D	28 Jan 2025 21:05	YP\AJ	Ok
16	Q1194-04	FF015338.D	28 Jan 2025 21:34	YP\AJ	Ok
17	I.BLK	FF015339.D	28 Jan 2025 22:31	YP\AJ	Ok
18	20 PPM AROMATIC HC STD	FF015340.D	28 Jan 2025 22:59	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF012925AR

Review By	yogesh	Review On	1/29/2025 10:35:06 AM		
Supervise By	Ankita	Supervise On	1/30/2025 9:16:16 AM		
SubDirectory	FF012925AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FF015350.D	29 Jan 2025 07:50	YP\AJ	Ok
2	I.BLK	FF015351.D	29 Jan 2025 08:18	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF015352.D	29 Jan 2025 09:16	YP\AJ	Ok
4	Q1194-02	FF015353.D	29 Jan 2025 09:48	YP\AJ	Ok
5	PB166219BL	FF015354.D	29 Jan 2025 10:16	YP\AJ	Ok
6	Q1168-07	FF015355.D	29 Jan 2025 10:45	YP\AJ	Ok,M
7	Q1168-07	FF015356.D	29 Jan 2025 11:13	YP\AJ	Ok,M
8	Q1168-08	FF015357.D	29 Jan 2025 11:42	YP\AJ	Ok,M
9	I.BLK	FF015358.D	29 Jan 2025 12:10	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF015359.D	29 Jan 2025 12:39	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG011425AL

Review By	yogesh	Review On	1/14/2025 11:46:37 AM		
Supervise By	Ankita	Supervise On	1/15/2025 7:45:46 AM		
SubDirectory	FG011425AL	HP Acquire Method		HP Processing Method	FG011425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	I.BLK	FG015064.D	14 Jan 2025 09:07	YP\AJ	Ok
2	100 PPM ALIPHATIC HC STD1	FG015065.D	14 Jan 2025 09:35	YP\AJ	Ok
3	50 PPM ALIPHATIC HC STD2	FG015066.D	14 Jan 2025 10:04	YP\AJ	Ok
4	20 PPM ALIPHATIC HC STD3	FG015067.D	14 Jan 2025 10:32	YP\AJ	Ok
5	10 PPM ALIPHATIC HC STD4	FG015068.D	14 Jan 2025 11:00	YP\AJ	Ok
6	5 PPM ALIPHATIC HC STD5	FG015069.D	14 Jan 2025 11:29	YP\AJ	Ok
7	20 PPM ALIPHATIC HC STD ICV	FG015070.D	14 Jan 2025 11:57	YP\AJ	Ok
8	I.BLK	FG015071.D	14 Jan 2025 12:26	YP\AJ	Ok
9	20 PPM ALIPHATIC HC STD	FG015072.D	14 Jan 2025 12:54	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG012825AL

Review By	yogesh	Review On	1/28/2025 12:12:10 PM		
Supervise By	Ankita	Supervise On	1/29/2025 3:56:40 PM		
SubDirectory	FG012825AL	HP Acquire Method		HP Processing Method	FG011425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FG015180.D	28 Jan 2025 10:57	YP\AJ	Ok
2	I.BLK	FG015181.D	28 Jan 2025 11:26	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FG015182.D	28 Jan 2025 14:00	YP\AJ	Ok
4	PB166218BL	FG015183.D	28 Jan 2025 15:52	YP\AJ	Ok
5	PB166218BS	FG015184.D	28 Jan 2025 16:20	YP\AJ	Ok
6	PB166218BSD	FG015185.D	28 Jan 2025 16:49	YP\AJ	Ok
7	Q1168-01	FG015186.D	28 Jan 2025 17:17	YP\AJ	Ok
8	Q1168-01	FG015187.D	28 Jan 2025 17:46	YP\AJ	Ok,M
9	Q1168-02	FG015188.D	28 Jan 2025 18:14	YP\AJ	Ok
10	Q1194-01	FG015189.D	28 Jan 2025 18:43	YP\AJ	Ok
11	Q1194-01D	FG015190.D	28 Jan 2025 19:11	YP\AJ	Ok
12	Q1194-01MS	FG015191.D	28 Jan 2025 19:40	YP\AJ	Ok
13	Q1194-01MSD	FG015192.D	28 Jan 2025 20:08	YP\AJ	Ok
14	Q1194-02	FG015193.D	28 Jan 2025 20:37	YP\AJ	Ok
15	Q1194-03	FG015194.D	28 Jan 2025 21:05	YP\AJ	Ok
16	Q1194-04	FG015195.D	28 Jan 2025 21:34	YP\AJ	Ok
17	I.BLK	FG015196.D	28 Jan 2025 22:31	YP\AJ	Ok
18	20 PPM ALIPHATIC HC STD	FG015197.D	28 Jan 2025 22:59	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM		
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM		
SubDirectory	FC012425AL	HP Acquire Method		HP Processing Method	FC012425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068101.D	24 Jan 2025 07:37		YP/AJ	Ok
2	I.BLK	I.BLK	FC068102.D	24 Jan 2025 08:12		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068103.D	24 Jan 2025 08:47		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068104.D	24 Jan 2025 09:23		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068105.D	24 Jan 2025 09:58		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068106.D	24 Jan 2025 10:34		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068107.D	24 Jan 2025 11:10		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068108.D	24 Jan 2025 11:46		YP/AJ	Ok
9	I.BLK	I.BLK	FC068109.D	24 Jan 2025 12:23		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068110.D	24 Jan 2025 12:59		YP/AJ	Ok
11	PB166217BL	PB166217BL	FC068111.D	24 Jan 2025 13:36		YP/AJ	Ok
12	PB166217BS	PB166217BS	FC068112.D	24 Jan 2025 14:12		YP/AJ	Ok,M
13	PB166217BSD	PB166217BSD	FC068113.D	24 Jan 2025 14:50		YP/AJ	Ok,M
14	Q1169-01	ARS20-0006	FC068114.D	24 Jan 2025 15:26	need 5x dilution	YP/AJ	Dilution
15	Q1169-03	REGULATOR-BUILDIN	FC068115.D	24 Jan 2025 16:03		YP/AJ	Ok
16	Q1169-05	SPILL-SITE	FC068116.D	24 Jan 2025 16:39		YP/AJ	Ok
17	Q1169-05D	Q1169-05D	FC068117.D	24 Jan 2025 17:17		YP/AJ	Ok
18	Q1169-05MS	SPILL-SITEMS	FC068118.D	24 Jan 2025 17:53	FC068116.D	YP/AJ	Ok,M

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM		
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM		
SubDirectory	FC012425AL	HP Acquire Method		HP Processing Method	FC012425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1169-05MSD	SPILL-SITEMSD	FC068119.D	24 Jan 2025 18:30	FC068116.D!FC068118.D	YP/AJ	Ok,M
20	Q1170-01	OR-03-01232025	FC068120.D	24 Jan 2025 19:06		YP/AJ	Ok,M
21	Q1170-02	OR-03-01232025-E2	FC068121.D	24 Jan 2025 19:43		YP/AJ	Ok,M
22	I.BLK	I.BLK	FC068122.D	24 Jan 2025 20:57		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068123.D	24 Jan 2025 21:33		YP/AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC012825AL

Review By	yogesh	Review On	1/28/2025 12:54:30 PM		
Supervise By	Ankita	Supervise On	1/29/2025 12:54:55 PM		
SubDirectory	FC012825AL	HP Acquire Method		HP Processing Method	FC012425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068130.D	28 Jan 2025 09:40		YP/AJ	Ok
2	I.BLK	I.BLK	FC068131.D	28 Jan 2025 10:17		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068132.D	28 Jan 2025 15:06		YP/AJ	Ok
4	PB166219BL	PB166219BL	FC068133.D	28 Jan 2025 15:42		YP/AJ	Ok
5	PB166219BS	PB166219BS	FC068134.D	28 Jan 2025 16:18		YP/AJ	Ok
6	PB166219BSD	PB166219BSD	FC068135.D	28 Jan 2025 16:55		YP/AJ	Ok
7	Q1168-07	LOD-MDL-WATER-01-(	FC068136.D	28 Jan 2025 17:31	2.5 PPM WATER LOD	YP/AJ	Ok,M
8	Q1168-07	LOD-MDL-WATER-01-(	FC068137.D	28 Jan 2025 18:07	4 PPM WATER LOD	YP/AJ	Ok,M
9	Q1168-08	LOQ-WATER-02-QT1-2	FC068138.D	28 Jan 2025 18:43	5 PPM WATER LOQ	YP/AJ	Ok,M
10	Q1194-08	EB	FC068139.D	28 Jan 2025 19:20		YP/AJ	Ok
11	I.BLK	I.BLK	FC068140.D	28 Jan 2025 20:35		YP/AJ	Ok
12	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068141.D	28 Jan 2025 21:12		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD012425AR

Review By	yogesh	Review On	1/24/2025 12:21:39 PM		
Supervise By	Ankita	Supervise On	1/27/2025 9:08:56 AM		
SubDirectory	FD012425AR	HP Acquire Method		HP Processing Method	FD012425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048943.D	24 Jan 2025 07:37		YP/AJ	Ok
2	I.BLK	I.BLK	FD048944.D	24 Jan 2025 08:12		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048945.D	24 Jan 2025 08:47		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048946.D	24 Jan 2025 09:23		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048947.D	24 Jan 2025 09:58		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048948.D	24 Jan 2025 10:34		YP/AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048949.D	24 Jan 2025 11:10		YP/AJ	Ok,M
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048950.D	24 Jan 2025 11:46		YP/AJ	Ok
9	I.BLK	I.BLK	FD048951.D	24 Jan 2025 12:23		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048952.D	24 Jan 2025 12:59		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD012825AR

Review By	yogesh	Review On	1/28/2025 12:55:24 PM		
Supervise By	Ankita	Supervise On	1/29/2025 12:55:06 PM		
SubDirectory	FD012825AR	HP Acquire Method		HP Processing Method	FD012425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FD048964.D	28 Jan 2025 09:40		YP/AJ	Ok
2	I.BLK	I.BLK	FD048965.D	28 Jan 2025 10:17		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048966.D	28 Jan 2025 15:06		YP/AJ	Ok
4	PB166219BL	PB166219BL	FD048967.D	28 Jan 2025 15:42		YP/AJ	Ok
5	PB166219BS	PB166219BS	FD048968.D	28 Jan 2025 16:18		YP/AJ	Ok
6	PB166219BSD	PB166219BSD	FD048969.D	28 Jan 2025 16:55		YP/AJ	Ok
7	Q1168-07	LOD-MDL-WATER-01-(	FD048970.D	28 Jan 2025 17:31	2.5 PPM WATER LOD	YP/AJ	Ok,M
8	Q1168-07	LOD-MDL-WATER-01-(	FD048971.D	28 Jan 2025 18:07	4 PPM WATER LOD	YP/AJ	Ok,M
9	Q1168-08	LOQ-WATER-02-QT1-2	FD048972.D	28 Jan 2025 18:43	5 PPM WATER LOQ	YP/AJ	Ok,M
10	Q1194-08	EB	FD048973.D	28 Jan 2025 19:20		YP/AJ	Ok
11	I.BLK	I.BLK	FD048974.D	28 Jan 2025 20:35		YP/AJ	Ok
12	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048975.D	28 Jan 2025 21:12		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF011425AR

Review By	yogesh	Review On	1/14/2025 2:48:03 PM		
Supervise By	Ankita	Supervise On	1/15/2025 7:46:50 AM		
SubDirectory	FF011425AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015236.D	14 Jan 2025 17:48		YP\AJ	Ok
2	I,BLK	I,BLK	FF015237.D	14 Jan 2025 18:17		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF015238.D	14 Jan 2025 18:45		YP\AJ	Ok,M
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF015239.D	14 Jan 2025 19:13		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015240.D	14 Jan 2025 19:42		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF015241.D	14 Jan 2025 20:10		YP\AJ	Ok,M
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF015242.D	14 Jan 2025 20:39		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015243.D	14 Jan 2025 21:35		YP\AJ	Ok
9	I.BLK	I.BLK	FF015244.D	14 Jan 2025 22:04		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015245.D	14 Jan 2025 22:32		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF012825AR

Review By	yogesh	Review On	1/28/2025 12:11:14 PM		
Supervise By	Ankita	Supervise On	1/29/2025 9:15:39 AM		
SubDirectory	FF012825AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015323.D	28 Jan 2025 10:57		YP\AJ	Ok
2	I.BLK	I.BLK	FF015324.D	28 Jan 2025 11:26		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015325.D	28 Jan 2025 14:00		YP\AJ	Ok
4	PB166218BL	PB166218BL	FF015326.D	28 Jan 2025 15:52		YP\AJ	Ok,M
5	PB166218BS	PB166218BS	FF015327.D	28 Jan 2025 16:20		YP\AJ	Ok,M
6	PB166218BSD	PB166218BSD	FF015328.D	28 Jan 2025 16:49		YP\AJ	Ok,M
7	Q1168-01	LOD-MDL-SOIL-01-QT	FF015329.D	28 Jan 2025 17:17	2.5 PPM SOIL LOD	YP\AJ	Ok,M
8	Q1168-01	LOD-MDL-SOIL-01-QT	FF015330.D	28 Jan 2025 17:46	4 PPM SOIL LOD	YP\AJ	Ok,M
9	Q1168-02	LOQ-SOIL-02-QT1-202	FF015331.D	28 Jan 2025 18:14	5 PPM SOIL LOQ	YP\AJ	Ok,M
10	Q1194-01	B-110-SB01	FF015332.D	28 Jan 2025 18:43		YP\AJ	Ok
11	Q1194-01D	Q1194-01D	FF015333.D	28 Jan 2025 19:11		YP\AJ	Ok
12	Q1194-01MS	B-110-SB01MS	FF015334.D	28 Jan 2025 19:40	FF015332.D	YP\AJ	Ok,M
13	Q1194-01MSD	B-110-SB01MSD	FF015335.D	28 Jan 2025 20:08	FF015332.D!FF015334.D	YP\AJ	Ok,M
14	Q1194-02	Q1194-02	FF015336.D	28 Jan 2025 20:37	Surr Fail	YP\AJ	ReRun
15	Q1194-03	B-113-SB01	FF015337.D	28 Jan 2025 21:05		YP\AJ	Ok
16	Q1194-04	B-113-SB02	FF015338.D	28 Jan 2025 21:34		YP\AJ	Ok
17	I.BLK	I.BLK	FF015339.D	28 Jan 2025 22:31		YP\AJ	Ok
18	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015340.D	28 Jan 2025 22:59		YP\AJ	Ok

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF012825AR

Review By	yogesh	Review On	1/28/2025 12:11:14 PM		
Supervise By	Ankita	Supervise On	1/29/2025 9:15:39 AM		
SubDirectory	FF012825AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF012925AR

Review By	yogesh	Review On	1/29/2025 10:35:06 AM		
Supervise By	Ankita	Supervise On	1/30/2025 9:16:16 AM		
SubDirectory	FF012925AR	HP Acquire Method		HP Processing Method	FF011425AR

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23968,PP23970,PP23971,PP23972,PP23973
CCC	PP23971
Internal Standard/PEM	
ICV/I.BLK	PP23969,PP23974
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FF015350.D	29 Jan 2025 07:50		YP\AJ	Ok
2	I.BLK	I.BLK	FF015351.D	29 Jan 2025 08:18		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015352.D	29 Jan 2025 09:16		YP\AJ	Ok
4	Q1194-02	B-110-SB02	FF015353.D	29 Jan 2025 09:48		YP\AJ	Ok
5	PB166219BL	PB166219BL	FF015354.D	29 Jan 2025 10:16		YP\AJ	Ok
6	Q1168-07	LOD-MDL-WATER-01-(	FF015355.D	29 Jan 2025 10:45	2.5 PPM WATER LOD	YP\AJ	Ok,M
7	Q1168-07	LOD-MDL-WATER-01-(	FF015356.D	29 Jan 2025 11:13	4 PPM WATER LOD	YP\AJ	Ok,M
8	Q1168-08	LOQ-WATER-02-QT1-2	FF015357.D	29 Jan 2025 11:42	5 PPM WATER LOQ	YP\AJ	Ok,M
9	I.BLK	I.BLK	FF015358.D	29 Jan 2025 12:10		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015359.D	29 Jan 2025 12:39		YP\AJ	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG011425AL

Review By	yogesh	Review On	1/14/2025 11:46:37 AM		
Supervise By	Ankita	Supervise On	1/15/2025 7:45:46 AM		
SubDirectory	FG011425AL	HP Acquire Method		HP Processing Method	FG011425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	I.BLK	I.BLK	FG015064.D	14 Jan 2025 09:07		YP\AJ	Ok
2	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FG015065.D	14 Jan 2025 09:35		YP\AJ	Ok
3	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FG015066.D	14 Jan 2025 10:04		YP\AJ	Ok
4	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015067.D	14 Jan 2025 10:32		YP\AJ	Ok
5	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FG015068.D	14 Jan 2025 11:00		YP\AJ	Ok
6	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FG015069.D	14 Jan 2025 11:29		YP\AJ	Ok
7	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015070.D	14 Jan 2025 11:57		YP\AJ	Ok
8	I.BLK	I.BLK	FG015071.D	14 Jan 2025 12:26		YP\AJ	Ok
9	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015072.D	14 Jan 2025 12:54		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG012825AL

Review By	yogesh	Review On	1/28/2025 12:12:10 PM		
Supervise By	Ankita	Supervise On	1/29/2025 3:56:40 PM		
SubDirectory	FG012825AL	HP Acquire Method		HP Processing Method	FG011425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FG015180.D	28 Jan 2025 10:57		YP\AJ	Ok
2	I.BLK	I.BLK	FG015181.D	28 Jan 2025 11:26		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015182.D	28 Jan 2025 14:00		YP\AJ	Ok
4	PB166218BL	PB166218BL	FG015183.D	28 Jan 2025 15:52		YP\AJ	Ok
5	PB166218BS	PB166218BS	FG015184.D	28 Jan 2025 16:20		YP\AJ	Ok
6	PB166218BSD	PB166218BSD	FG015185.D	28 Jan 2025 16:49		YP\AJ	Ok
7	Q1168-01	LOD-MDL-SOIL-01-QT	FG015186.D	28 Jan 2025 17:17	2.5 PPM SOIL LOD	YP\AJ	Ok
8	Q1168-01	LOD-MDL-SOIL-01-QT	FG015187.D	28 Jan 2025 17:46	4 PPM SOIL LOD	YP\AJ	Ok,M
9	Q1168-02	LOQ-SOIL-02-QT1-202	FG015188.D	28 Jan 2025 18:14	5 PPM SOIL LOQ	YP\AJ	Ok
10	Q1194-01	B-110-SB01	FG015189.D	28 Jan 2025 18:43		YP\AJ	Ok
11	Q1194-01D	Q1194-01D	FG015190.D	28 Jan 2025 19:11		YP\AJ	Ok
12	Q1194-01MS	B-110-SB01MS	FG015191.D	28 Jan 2025 19:40	FG015189.D	YP\AJ	Ok
13	Q1194-01MSD	B-110-SB01MSD	FG015192.D	28 Jan 2025 20:08	FG015189.D!FG015191.D	YP\AJ	Ok
14	Q1194-02	B-110-SB02	FG015193.D	28 Jan 2025 20:37		YP\AJ	Ok
15	Q1194-03	B-113-SB01	FG015194.D	28 Jan 2025 21:05		YP\AJ	Ok
16	Q1194-04	B-113-SB02	FG015195.D	28 Jan 2025 21:34		YP\AJ	Ok
17	I.BLK	I.BLK	FG015196.D	28 Jan 2025 22:31		YP\AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FG015197.D	28 Jan 2025 22:59		YP\AJ	Ok,M

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Instrument ID: FID_G

Daily Analysis Runlog For Sequence/QCBatch ID # FG012825AL

Review By	yogesh	Review On	1/28/2025 12:12:10 PM		
Supervise By	Ankita	Supervise On	1/29/2025 3:56:40 PM		
SubDirectory	FG012825AL	HP Acquire Method		HP Processing Method	FG011425AL

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC	PP23647
Internal Standard/PEM	
ICV/I.BLK	PP23645,PP23650
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 01/27/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:10
Out Date: 01/28/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134424

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1194-01	B-110-SB01	1	1.15	8.82	9.97	8.94	88.3	
Q1194-02	B-110-SB02	2	1.19	8.59	9.78	6.09	57.0	
Q1194-03	B-113-SB01	3	1.17	8.41	9.58	8.48	86.9	
Q1194-04	B-113-SB02	4	1.15	8.84	9.99	6.87	64.7	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

WB 134424

WorkList Name : %1-012725 **WorkList ID :** 187156 **Department :** Wet-Chemistry **Date :** 01-27-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1194-01	B-110-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO
Q1194-02	B-110-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO
Q1194-03	B-113-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO
Q1194-04	B-113-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N41	01/25/2025	Chemtech -SO

Date/Time 01/27/25 15:00
Raw Sample Received by: TB WDC
Raw Sample Relinquished by: CFSM

Date/Time 01/27/25 17:00
Raw Sample Received by: CFSM
Raw Sample Relinquished by: TB WDC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166218

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	01/28/2025
Matrix :	Solid			**Extraction Start Time :**	08:30
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	01/28/2025
Balance check:	EH	**Filter By:**	RJ	**Extraction End Time :**	15:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24092
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
LOD	0.25ML/0.4ML	20 PPM	PP24131
LOQ	0.5ML	20 PPM	PP24131

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2578
Baked Na2SO4	N/A	EP2580
Sand	N/A	E2865
Hexane	N/A	E3868
Methylene Chloride	N/A	E3871
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/28/25	RP (Ext Lab)	M-P-PSHIPUS.
15:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166218

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 01/28/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166218BL	PB166218BL	EPH	30.01	N/A	RUPESH	ritesh	2			U3-1
PB166218BS	PB166218BS	EPH	30.02	N/A	RUPESH	ritesh	2			2
PB166218BSD	PB166218BSD	EPH	30.01	N/A	RUPESH	ritesh	2			3
Q1168-01	LOD-MDL-SOIL-01-QT1-2025 0.25 ML	EPH	30.04	N/A	RUPESH	ritesh	2			4
Q1168-02	LOQ-SOIL-02-QT1-2025 0.5ML	EPH	30.02	N/A	RUPESH	ritesh	2			5
Q1194-01	B-110-SB01	EPH	30.09	N/A	RUPESH	ritesh	2	E		6
Q1194-01DUP	B-110-SB01DUP	EPH	30.07	N/A	RUPESH	ritesh	2	E		U2-1
Q1194-01MS	B-110-SB01MS	EPH	30.08	N/A	RUPESH	ritesh	2	E		2
Q1194-01MSD	B-110-SB01MSD	EPH	30.05	N/A	RUPESH	ritesh	2	E		3
Q1194-02	B-110-SB02	EPH	30.03	N/A	RUPESH	ritesh	2	E		4
Q1194-03	B-113-SB01	EPH	30.06	N/A	RUPESH	ritesh	2	E		5
Q1194-04	B-113-SB02	EPH	30.02	N/A	RUPESH	ritesh	2	E		6
	LOD 0.4 ML	↑	30.00	↑	↑	↑	2			U2-2

* **Extracts relinquished on the same date as received.**

01.29.25

1168 24
8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1194N **WorkList ID :** 187197 **Department :** Extraction **Date :** 01-28-2025 08:28:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1168-01	LOD-MDL-SOIL-01-QT1-2025	Solid	EPH	Cool 4 deg C	CHEM02	QA Of	01/23/2025	NJEPH
Q1168-02	LOQ-SOIL-02-QT1-2025	Solid	EPH	Cool 4 deg C	CHEM02	QA Of	01/23/2025	NJEPH
Q1194-01	B-110-SB01	Solid	EPH	Cool 4 deg C	PORT06	N41	01/25/2025	NJEPH
Q1194-02	B-110-SB02	Solid	EPH	Cool 4 deg C	PORT06	N41	01/25/2025	NJEPH
Q1194-03	B-113-SB01	Solid	EPH	Cool 4 deg C	PORT06	N41	01/25/2025	NJEPH
Q1194-04	B-113-SB02	Solid	EPH	Cool 4 deg C	PORT06	N41	01/25/2025	NJEPH

Date/Time 01/28/25 8:28
Raw Sample Received by: RJ (Ecotech)
Raw Sample Relinquished by: JD (SM)

Date/Time 01/28/25 9:00
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: RJ (Ecotech)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166219

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 01/28/2025

Extraction Start Time : 08:31

Extraction End Date : 01/28/2025

Extraction End Time : 14:50

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24092
Surrogate	1.0ML	100 PPM	PP24119
Fractionation Surrogate	1.0ML	100 PPM	PP24108
LOD	0.25ML/0.4ML	20 PPM	PP24131
LOQ	0.5ML	20 PPM	PP24131

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3871
Baked Na2SO4	N/A	EP2580
Hexane	N/A	E3868
6N HCL	N/A	EP2569
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/28/25	RP (Ext Lab)	T.P.-Pest/PCB
14:55	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166219

Analytical Method: MNJDEP-EPH-7

Concentration Date: 01/28/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166219BL	PB166219BL	EPH	1000	<2	RUPESH	ritesh	2			SEP-1
PB166219BS	PB166219BS	EPH	1000	<2	RUPESH	ritesh	2			2
PB166219BSD	PB166219BSD	EPH	1000	<2	RUPESH	ritesh	2			3
Q1168-07	LOD-MDL-WATER-01-QT1-2025 0.25 ML	EPH	1000	<2	RUPESH	ritesh	2			4
Q1168-08	LOQ-WATER-02-QT1-2025 0.5 ML	EPH	1000	<2	RUPESH	ritesh	2			5
Q1194-08	EB	EPH	1000	<2	RUPESH	ritesh	2	E		6
	LOD - 0.4 ML	"	1000	<2	"	"	2			7

* **Extracts relinquished on the same date as received.**

1/28/25

16621
8:37

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1194E **WorkList ID :** 187198 **Department :** Extraction **Date :** 01-28-2025 08:30:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1168-07	LOD-MDL-WATER-01-QT1-202	Water	EPH	1:1 HCl to pH < 2	CHEM02	QA Of	01/23/2025	NJEPH
Q1168-08	LOQ-WATER-02-QT1-2025	Water	EPH	1:1 HCl to pH < 2	CHEM02	QA Of	01/23/2025	NJEPH
Q1194-08	EB	Water	EPH	1:1 HCl to pH < 2	PORT06	N41	01/25/2025	NJEPH

Date/Time 01/28/25 8:30

Raw Sample Received by: RS (Ext Lab)

Raw Sample Relinquished by: JDCSM

Date/Time 01/28/25 9:00

Raw Sample Received by: JDCSM

Raw Sample Relinquished by: RS (Ext Lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q1194

Test : EPH

Prepbatch ID : PB166218,PB166219,

Sequence ID/Qc Batch ID: FC012825AL,FD012825AR,FE012825AL,FF012825AR,FF012925AR,FG012825AL,FG012825AR,

Standard ID :

EP2569,EP2578,EP2580,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23968,PP23969,PP23970,PP23971,PP23972,PP23973,PP23974,PP24092,PP24108,PP24119,PP24131,

Chemical ID :

E2865,E3551,E3757,E3789,E3828,E3846,E3848,E3868,E3871,M6121,P10260,P11139,P12362,P12972,P13017,P13278,P13465,P13472,P13595,P13597,P13598,P13607,P13636,P13646,P13647,P13652,P13654,P13661,P13685,P13744,P13748,P13766,P13769,P13801,P13806,P13807,P13810,P13812,P13813,P13814,P13815,P13823,P13824,P13835,P13837,P13838,P13841,P13845,P13847,P13848,P13849,P13852,P13853,P13854,P13867,W3110,W3112,W3153,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3319	6N HCL	EP2569	12/02/2024	05/13/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 12/02/2024

FROM 219.00000ml of M6121 + 781.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
781	100 PPM Aliphatic HC Working STD (Restek)	PP23644	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 1.25000ml of P12362 + 23.25000ml of E3789 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2900	100 PPM Aliphatic HC STD (Absolute)	PP23645	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 2.50000ml of P13278 + 22.00000ml of E3789 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
783	50 PPM Aliphatic HC STD	PP23646	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.50000ml of E3789 + 0.50000ml of PP23644 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
784	20 PPM Aliphatic HC STD	PP23647	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23644 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
785	10 PPM Aliphatic HC STD	PP23648	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.90000ml of E3789 + 0.10000ml of PP23644 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
786	5 PPM Aliphatic HC STD	PP23649	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.90000ml of E3789 + 0.10000ml of PP23646 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2901	20 PPM Aliphaitic HC STD ICV (Absolute)	PP23650	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23645 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
782	100 PPM Aromatic HC Working STD	PP23968	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.25000ml of P13646 + 0.62500ml of P13465 + 1.25000ml of P10260 + 22.87500ml of E3828 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2945	100 PPM Aromatic HC Working STD (Absolute)	PP23969	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.25000ml of P13647 + 0.62500ml of P13472 + 1.25000ml of P11139 + 22.87500ml of E3828 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
787	50 PPM Aromatic HC STD	PP23970	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.50000ml of E3828 + 0.50000ml of PP23968 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
788	20 PPM Aromatic HC STD	PP23971	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.80000ml of E3828 + 0.20000ml of PP23968 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
789	10 PPM Aromatic HC STD	PP23972	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23968 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
790	5 PPM Aromatic HC STD	PP23973	11/14/2024	05/09/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.90000ml of E3828 + 0.10000ml of PP23970 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2901	20 PPM Aliphaitic HC STD ICV (Absolute)	PP23974	11/14/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 11/21/2024

FROM 0.80000ml of W3110 + 0.20000ml of PP23645 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP24092	12/18/2024	06/18/2025	Yogesh Patel	None	None	Ankita Jodhani 12/18/2024

FROM 5.00000ml of P13636 + 5.00000ml of P13801 + 5.00000ml of P13806 + 5.00000ml of P13810 + 5.00000ml of P13812 + 5.00000ml of P13813 + 5.00000ml of P13814 + 5.00000ml of P13815 + 5.00000ml of P13823 + 5.00000ml of P13824 + 5.00000ml of P13835 + 5.00000ml of P13837 + 5.00000ml of P13838 + 5.00000ml of P13841 + 5.00000ml of P13847 + 5.00000ml of P13848 + 5.00000ml of P13849 + 5.00000ml of P13852 + 5.00000ml of P13853 + 5.00000ml of P13854 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1331	100 PPM NJEPH Fractionating Surrogate	PP24108	01/14/2025	07/14/2025	Yogesh Patel	None	None	Ankita Jodhani 01/15/2025

FROM 1.25000ml of P13744 + 1.25000ml of P13748 + 1.25000ml of P13766 + 1.25000ml of P13769 + 195.00000ml of W3153 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP24119	01/16/2025	06/26/2025	Yogesh Patel	None	None	Ankita Jodhani 01/16/2025

FROM 1.25000ml of P13595 + 1.25000ml of P13597 + 1.25000ml of P13598 + 1.25000ml of P13607 + 1.25000ml of P13652 + 1.25000ml of P13654 + 1.25000ml of P13661 + 1.25000ml of P13685 + 490.00000ml of E3846 = Final Quantity: 200.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2589	20 PPM NJ EPH SPIKE for LOD-LOQ	PP24131	01/27/2025	07/27/2025	Yogesh Patel	None	None	Ankita Jodhani 01/27/2025

FROM 1.00000ml of P13807 + 1.00000ml of P13845 + 8.00000ml of P13867 = Final Quantity: 10.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
phenomenex	SI500025-30 / Cleanert SPE Silica, 5000 mg/25 ml	Z0513CK1	03/04/2025	09/04/2024 / Rajesh	04/03/2024 / Rajesh	E3757

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	07/17/2025	01/17/2025 / Rajesh	01/02/2025 / Rajesh	E3868

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0165529	05/14/2025	11/14/2024 / yogesh	01/26/2021 / dhaval	P10260

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM	060420	05/14/2025	11/14/2024 / yogesh	10/29/2021 / Abdul	P11139

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	03/09/2025	09/09/2024 / yogesh	04/11/2024 / yogesh	P13278

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	05/14/2025	11/14/2024 / yogesh	07/23/2024 / yogesh	P13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	05/14/2025	11/14/2024 / yogesh	07/23/2024 / yogesh	P13472

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13595

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13597

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13598

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13607

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	06/18/2025	12/18/2024 / yogesh	10/16/2024 / yogesh	P13636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	05/14/2025	11/14/2024 / yogesh	10/16/2024 / yogesh	P13646

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	05/14/2025	11/14/2024 / yogesh	10/16/2024 / yogesh	P13647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13654

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13661

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13685

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13744

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	07/14/2025	01/14/2025 / yogesh	11/01/2024 / yogesh	P13769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13801

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/27/2025	01/27/2025 / yogesh	12/09/2024 / yogesh	P13807

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13810

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13813

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13814

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13823

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13824

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13835

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13837

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13838

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13841

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/27/2025	01/27/2025 / yogesh	12/09/2024 / yogesh	P13845

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13847

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13848

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13849

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13852

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13853

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	06/18/2025	12/18/2024 / yogesh	12/09/2024 / yogesh	P13854

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
VWR Scientific	BDH83632 / PENTANE	24080083	08/28/2027	01/27/2025 / yogesh	01/27/2025 / yogesh	P13867

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)	235898	02/28/2029	06/27/2024 / jignesh	06/26/2024 / jignesh	W3110

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	11/25/2024 / jignesh	11/21/2024 / jignesh	W3153

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

P10758 to P10762 -(5)

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2,3-Trimethylbenzene **CAS #** 526-73-8 (Lot 8776.10-36) **Purity** 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL +/- 90.5449 µg/mL +/- 100.4678 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene **CAS #** 91-20-3 (Lot MKBZ8680V) **Purity** 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL +/- 90.3656 µg/mL +/- 100.2689 µg/mL	Gravimetric Unstressed Stressed
3	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBG8884) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 90.4557 µg/mL +/- 100.3688 µg/mL	Gravimetric Unstressed Stressed
4	Acenaphthylene **CAS #** 208-96-8 (Lot N19U) **Purity** 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL +/- 90.2125 µg/mL +/- 100.0989 µg/mL	Gravimetric Unstressed Stressed
5	Acenaphthene **CAS #** 83-32-9 (Lot MKCN0610) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 90.0953 µg/mL +/- 99.9689 µg/mL	Gravimetric Unstressed Stressed
6	Fluorene **CAS #** 86-73-7 (Lot 10217947) **Purity** 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 90.8161 µg/mL +/- 100.7687 µg/mL	Gravimetric Unstressed Stressed
7	Phenanthrene **CAS #** 85-01-8 (Lot MKCL7390) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 90.6359 µg/mL +/- 100.5688 µg/mL	Gravimetric Unstressed Stressed

8	Anthracene		2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity 99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene		2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity 99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene		2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity 98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity 99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene		2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity 97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity 99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene		2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity 99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

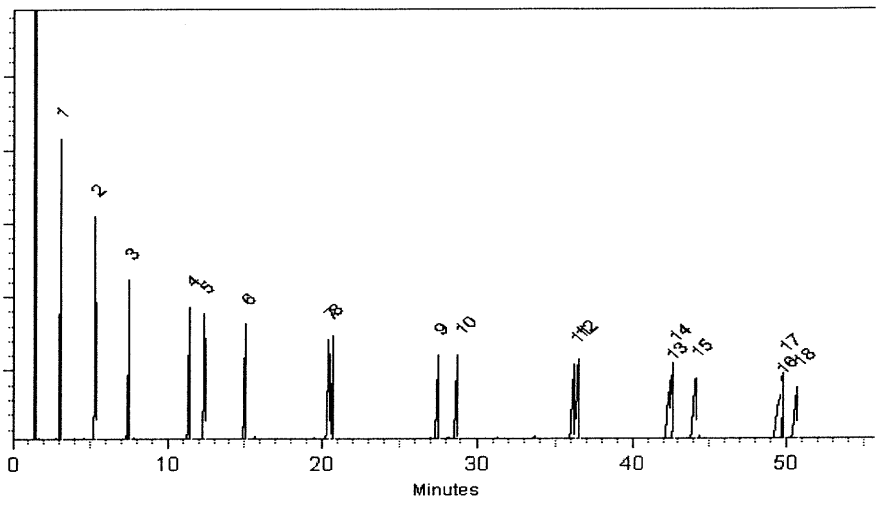
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician **Date Mixed:** 14-May-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I **Date Passed:** 18-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551


Cleanert EPH
5g/25ml 15/pkg
固相萃取产品
LOT#:Z0513CK1
MFG#:F04005
Made in China
CAT# SI500025-30
Agela Technologies
E3757

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.B

Material No.: 926
Batch No.: 24C186
Manufactured Date: 2024-0
Expiration Date: 2025-0
Revision N

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E3789

JCroak

Jamie Croak
Director Quality Operations, Bioscience Product

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 12/13/24

E 3846

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3848

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 01/03/25

E3868

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

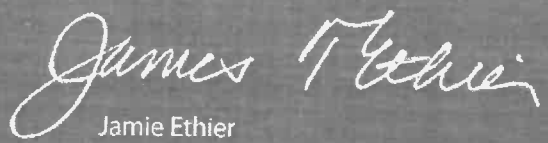
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s):	Lot#
Methylene chloride	104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By: Benson Chan	060420 DATE
Reviewed By: Pedro L. Rentas	060420 DATE

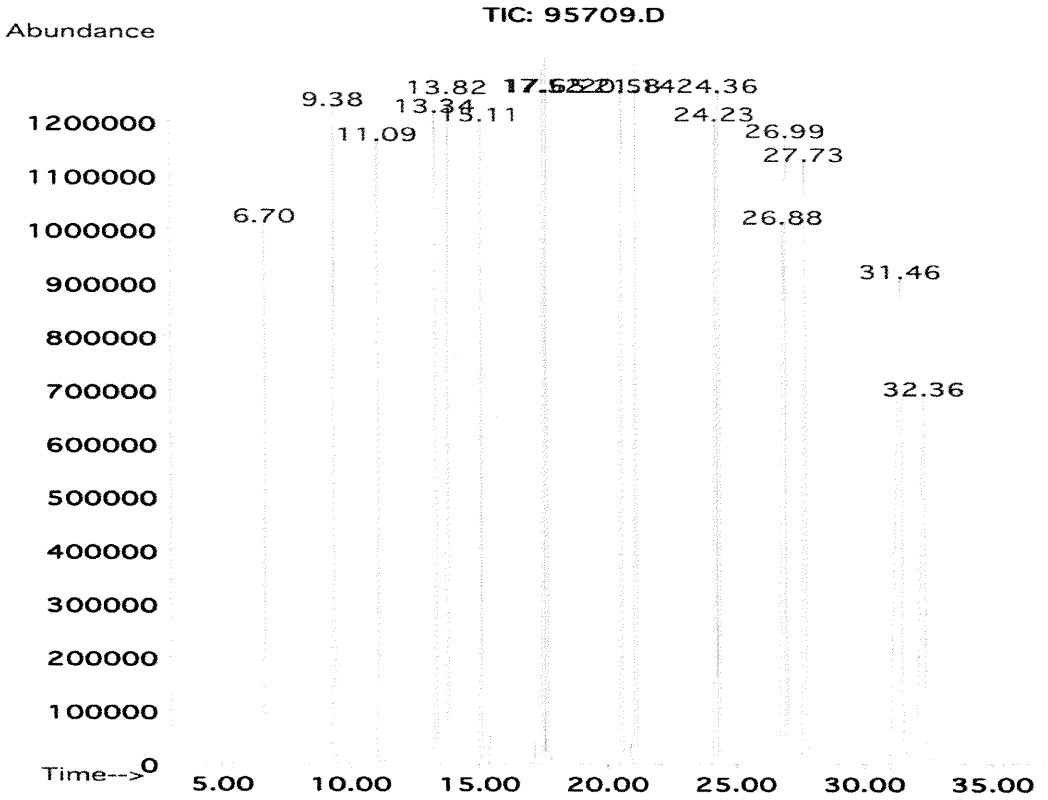
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3.	Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9.	Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10.	Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11.	Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12.	Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13.	Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14.	2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15.	Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12361 ↓ P12370 } Y.P. 03/16/23

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 59.9753 µg/mL	Gravimetric Unstressed Stressed

8	n-Octadecane (C18) **CAS #** 593-45-3 **Purity** 97%	(Lot VZKOJ)	2,004.7	µg/mL	+/- 11.7645 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

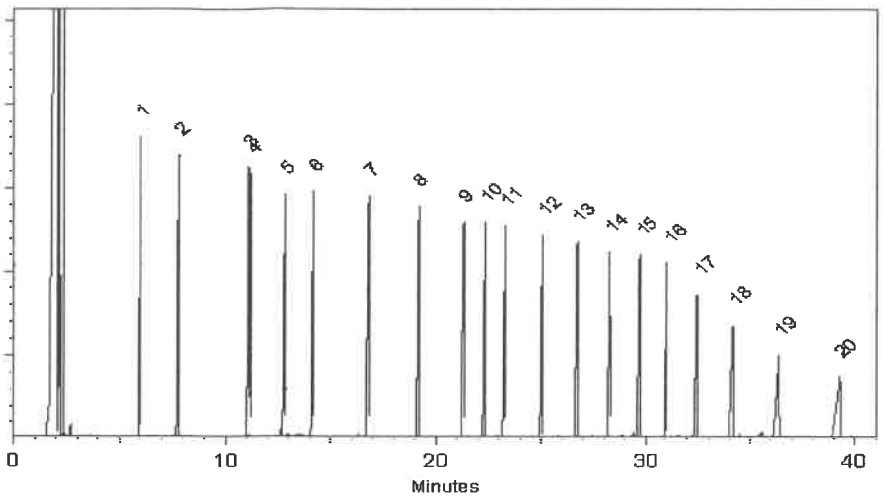
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 **Balance:** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12960 & P12991 Y.P. 12/21/2023

Catalog No. : 31098 **Lot No.:** A0204989

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

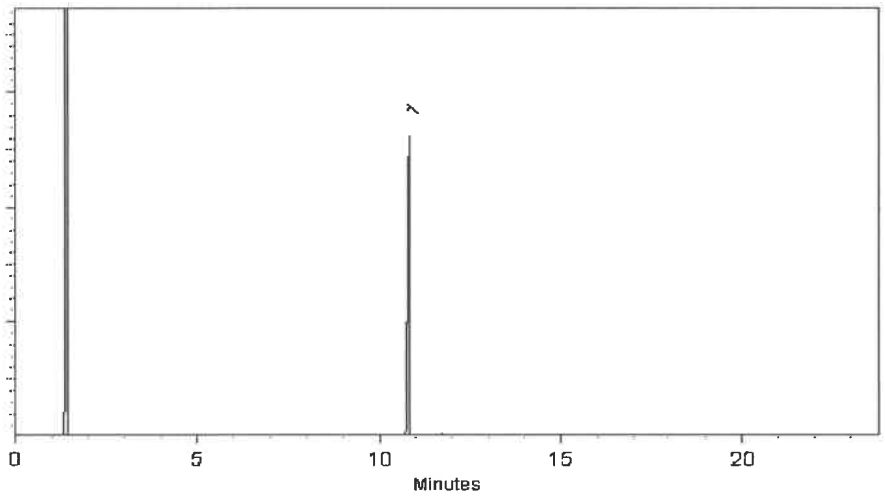
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

chromatographic plus

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P12992 ↓ P13031 } Y.P. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

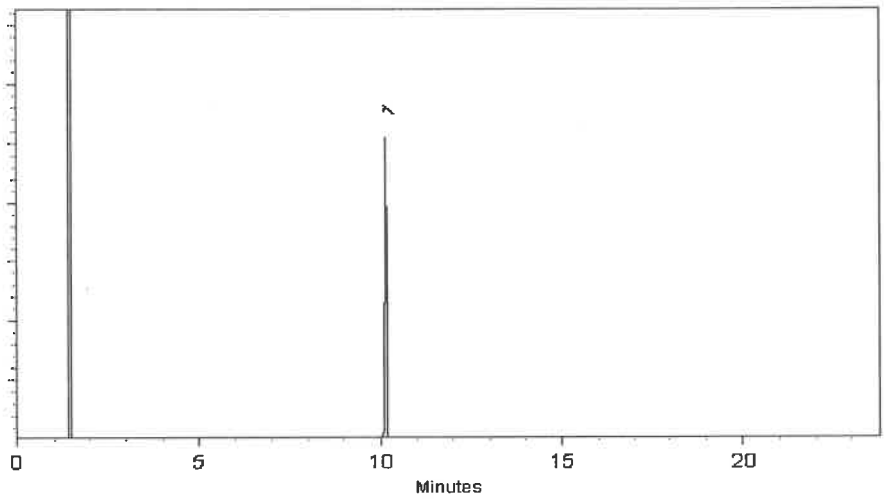
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95899
Lot Number: 040524
Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components
Expiration Date: 040534
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s):	Lot#
Cyclohexane	28930

P13278 & P13287 } Y.P. 04111124

Formulated By:	Anthony Mahoney	040524 DATE
Reviewed By:	Pedro L. Rentas	040524 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 25.0 0.001 Flask Uncertainty
CAUTION: Sonicate Before Use

	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	orl-rat 1630mg/kg
2.	Naphthalene	(0222)	MKBZ8680V	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m3/8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	**120222**	1.00	25.00	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	593-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Heneicosane	95708	120222	1.00	25.00	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetratriacontane	95708	120222	1.00	25.00	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7194-85-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0210831

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13457 ↓ P13476 Y.P. 07/23/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

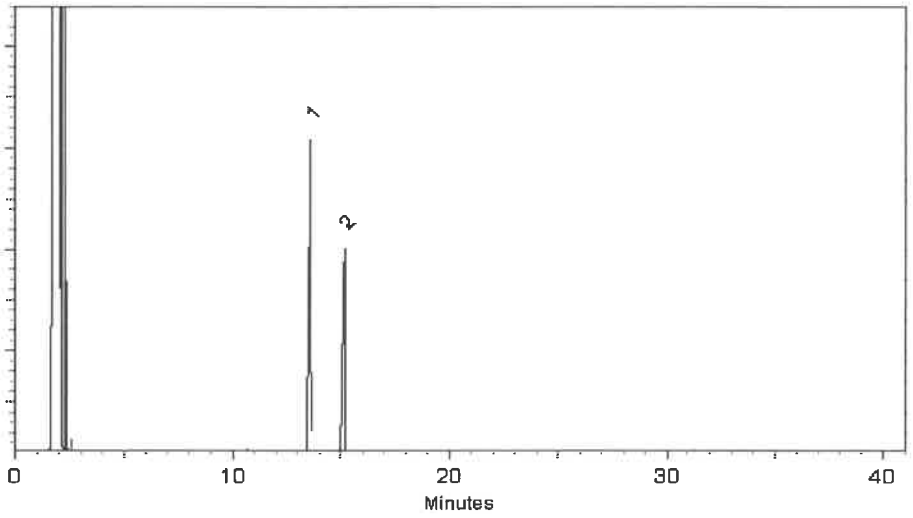
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0210831

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13457 ↓ P13476 Y.P. 07/23/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

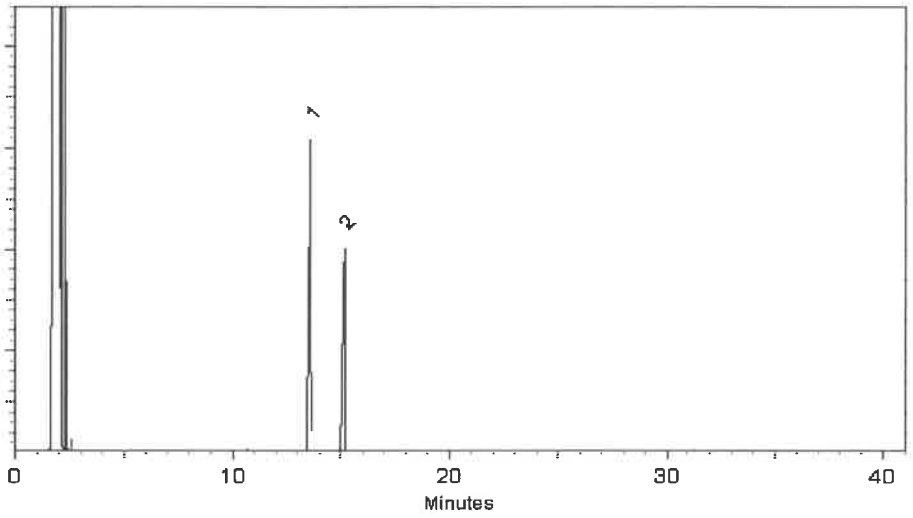
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

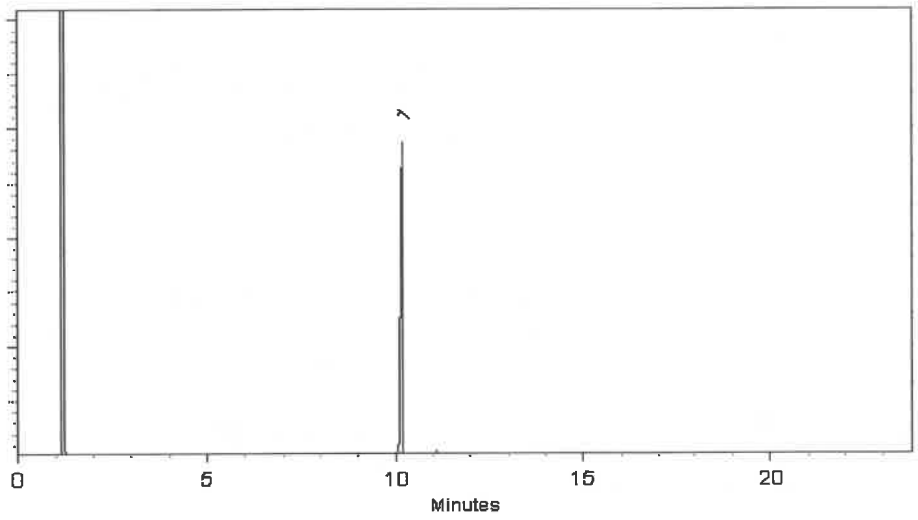
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

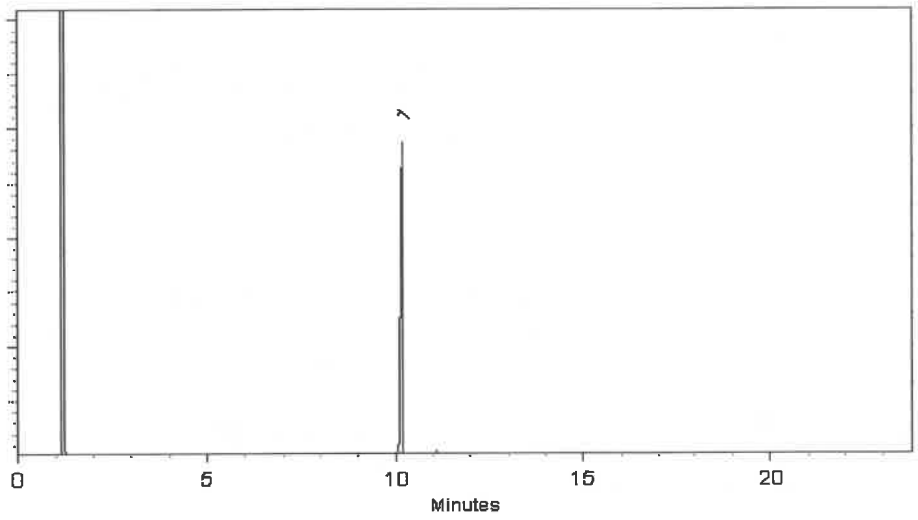
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

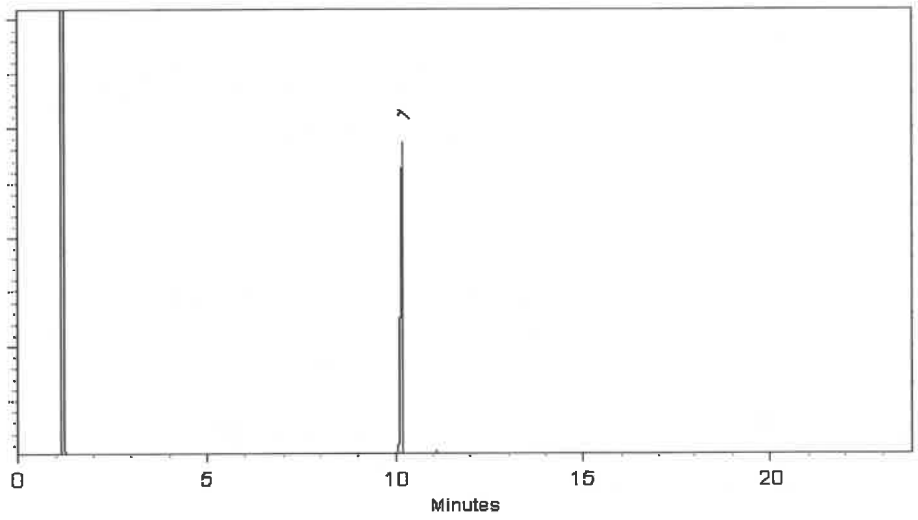
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624
Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

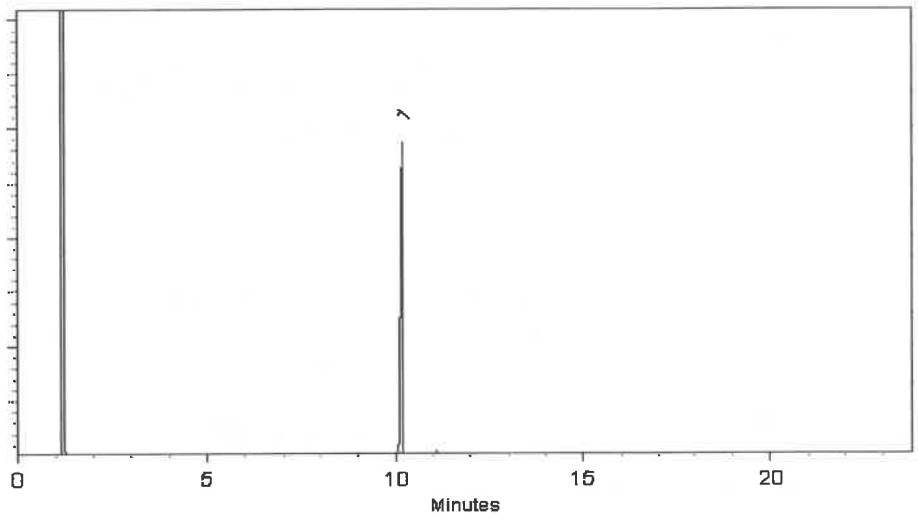
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
↓
P13644
} Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/- 5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

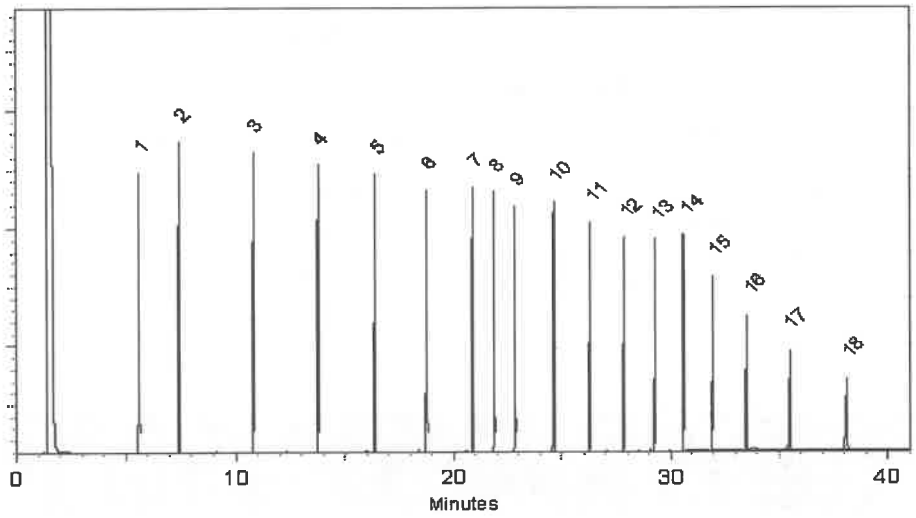
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

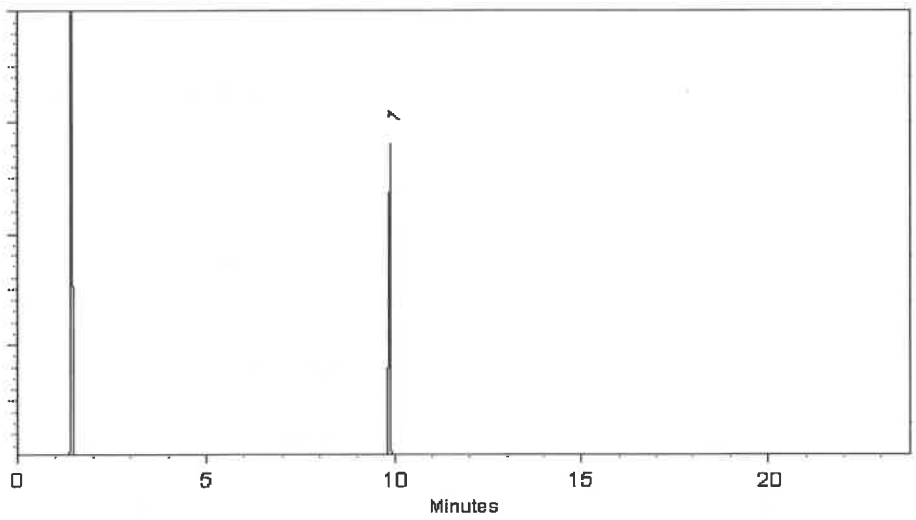
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

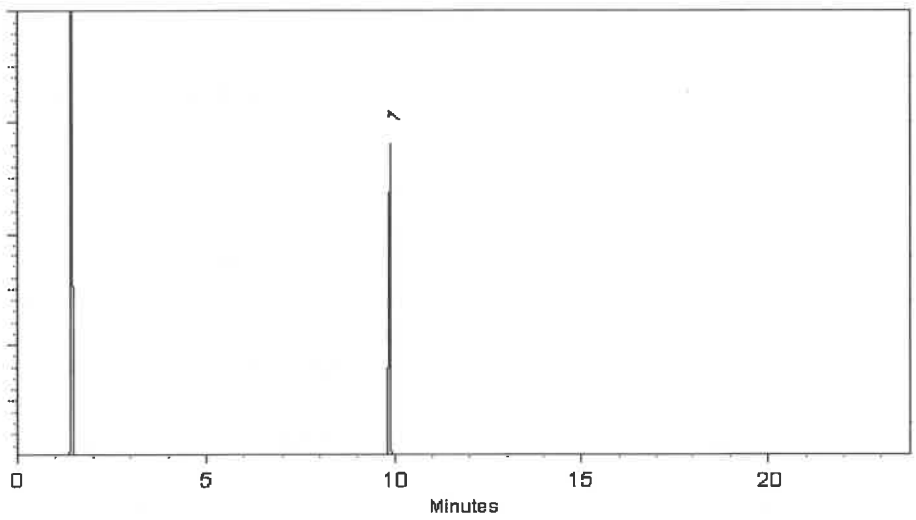
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

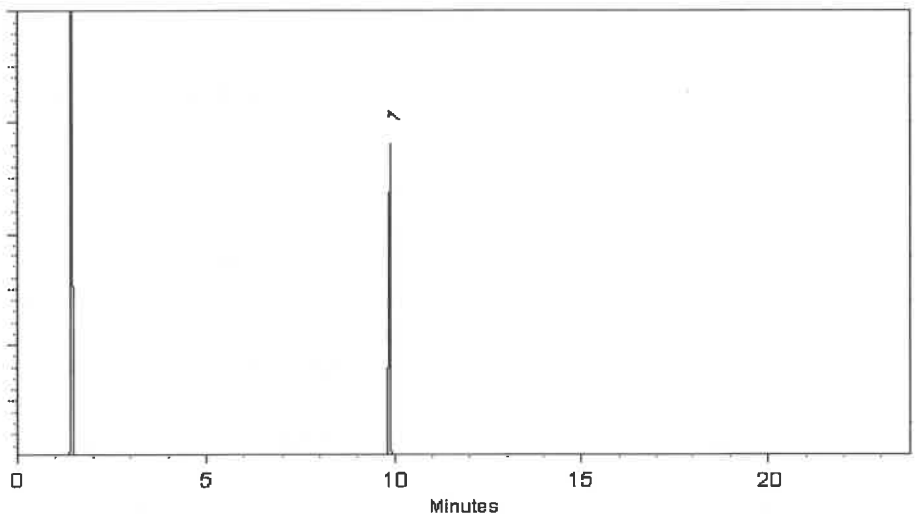
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

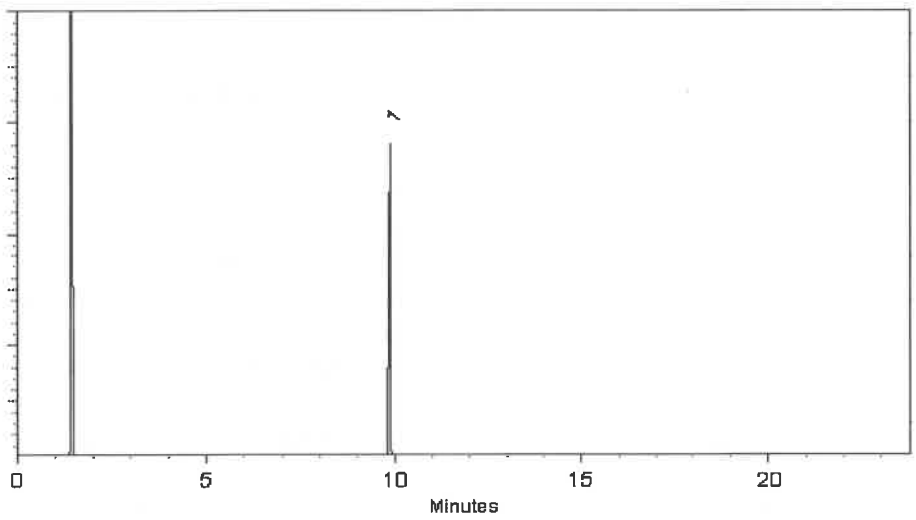
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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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

P13645 ↓ P13694 } Y.P. 10/16/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

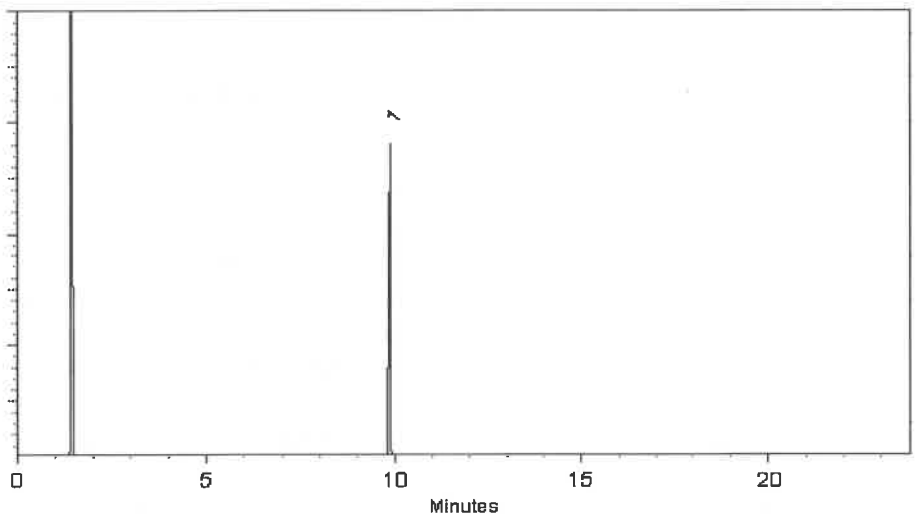
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 31097 **Lot No.:** A0216631

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

P13645 ↓ P13694 } Y.P. 10/16/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

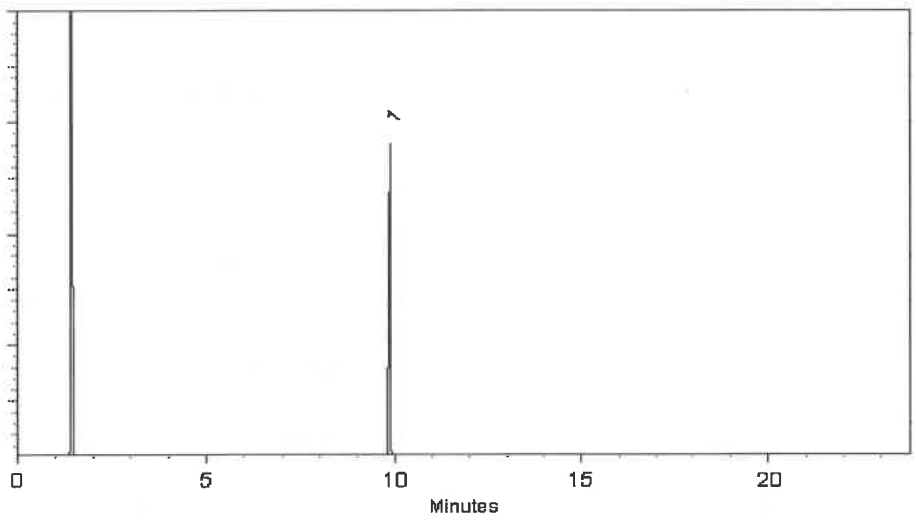
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

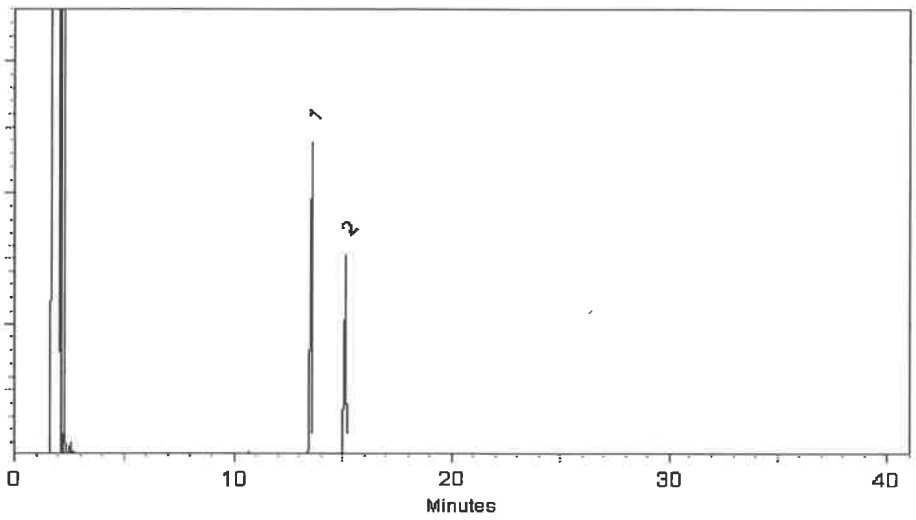
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

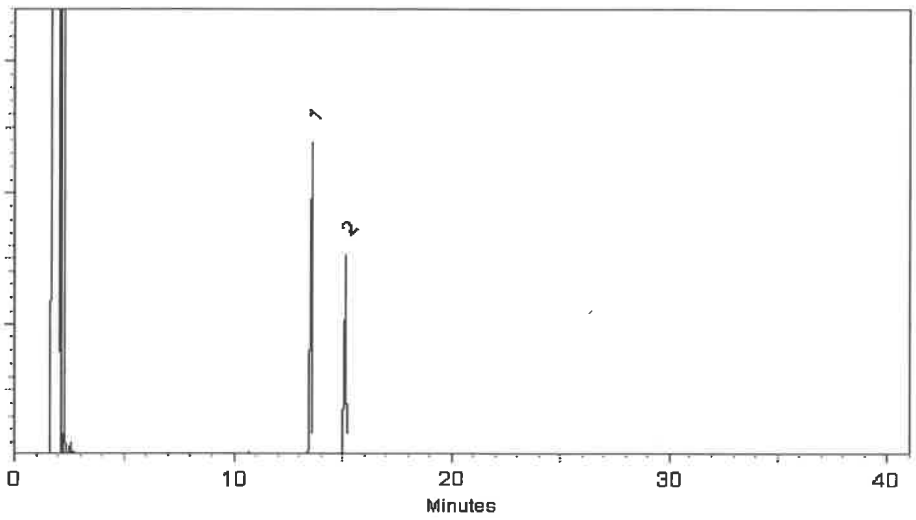
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

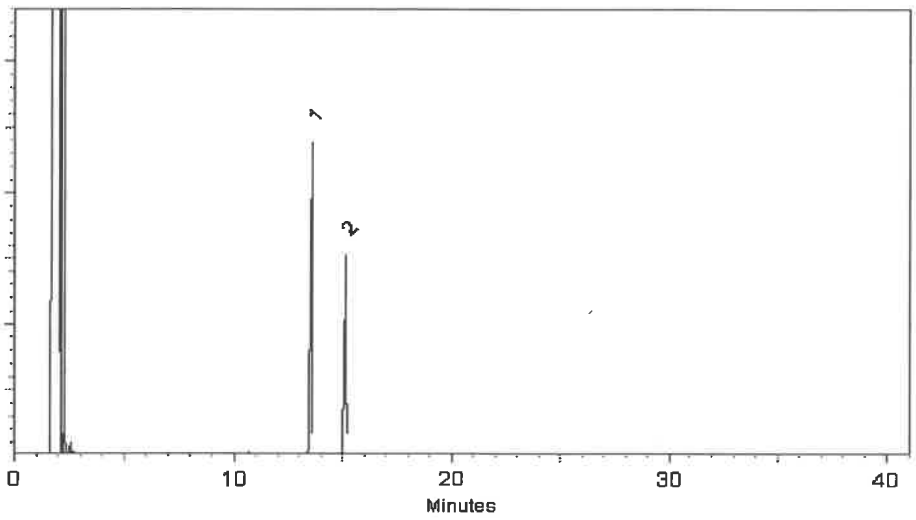
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

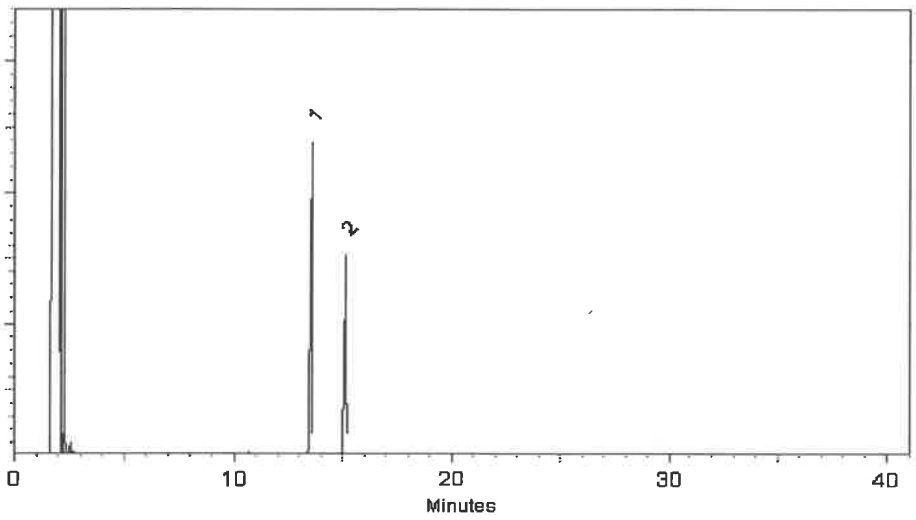
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

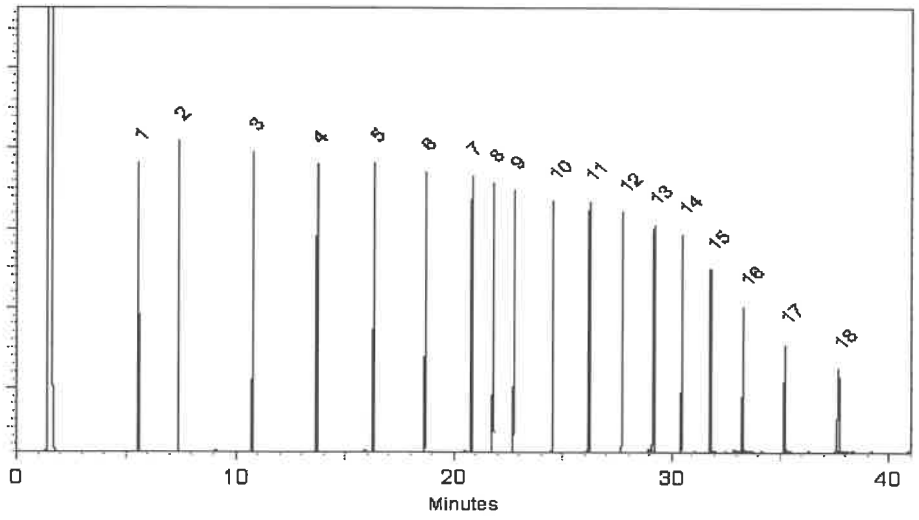
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

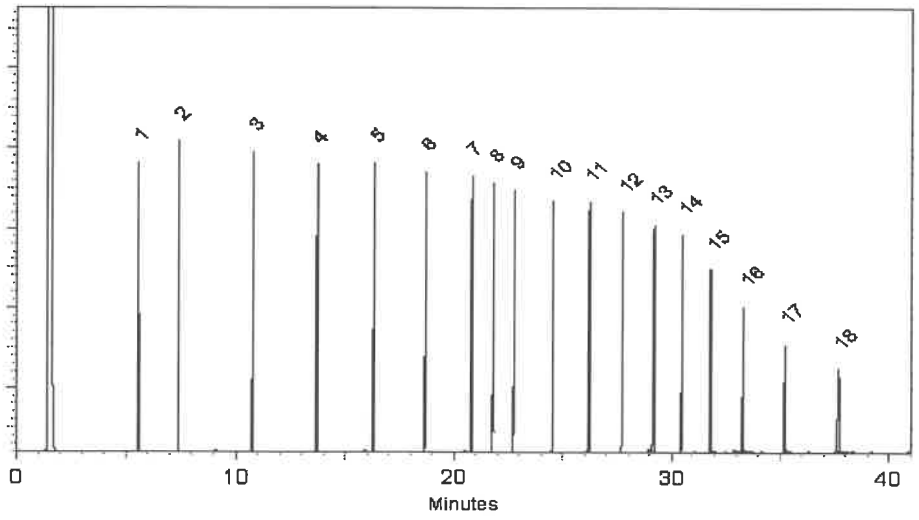
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

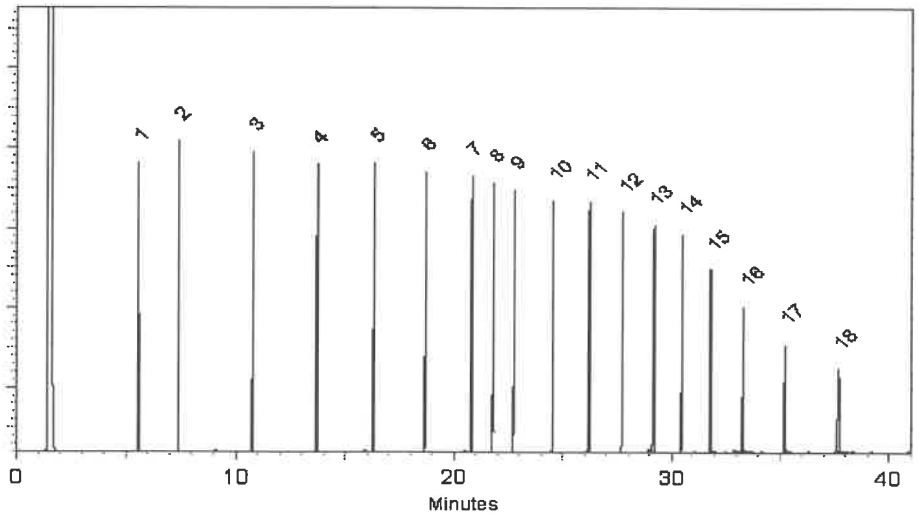
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

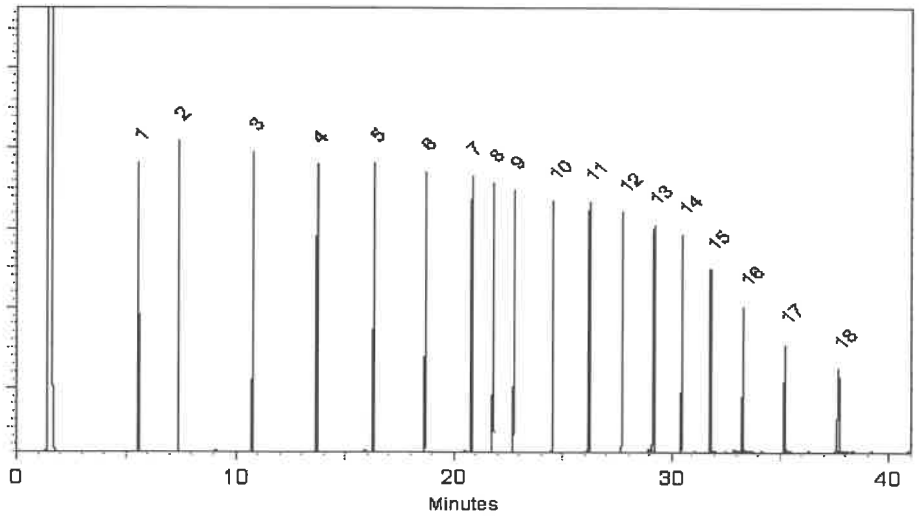
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

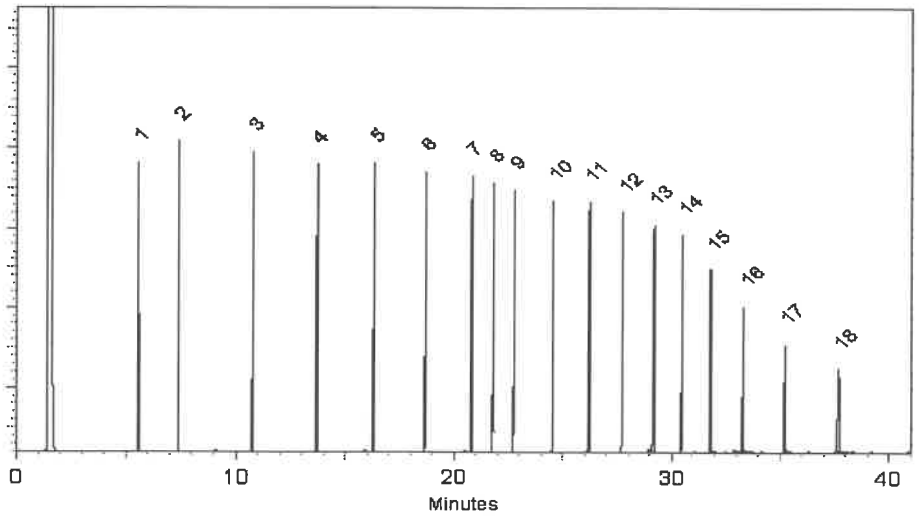
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

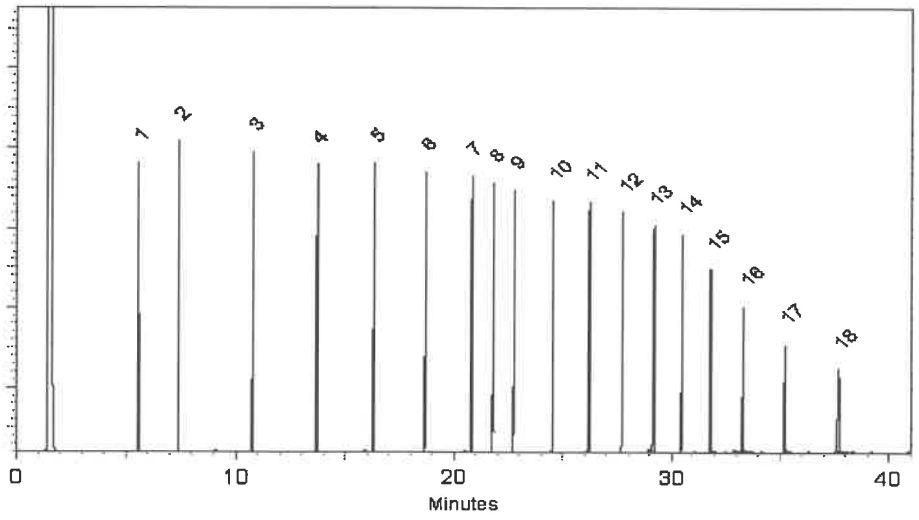
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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Certificate #3222.02

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Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

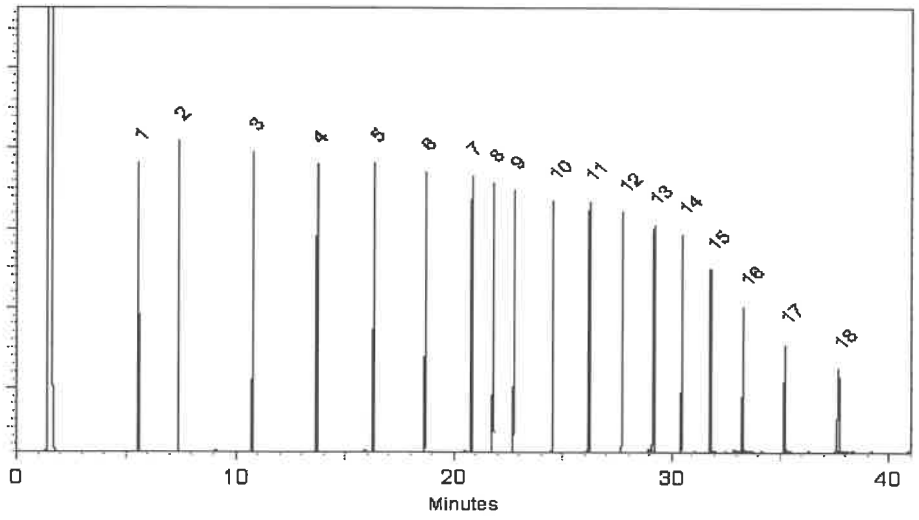
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

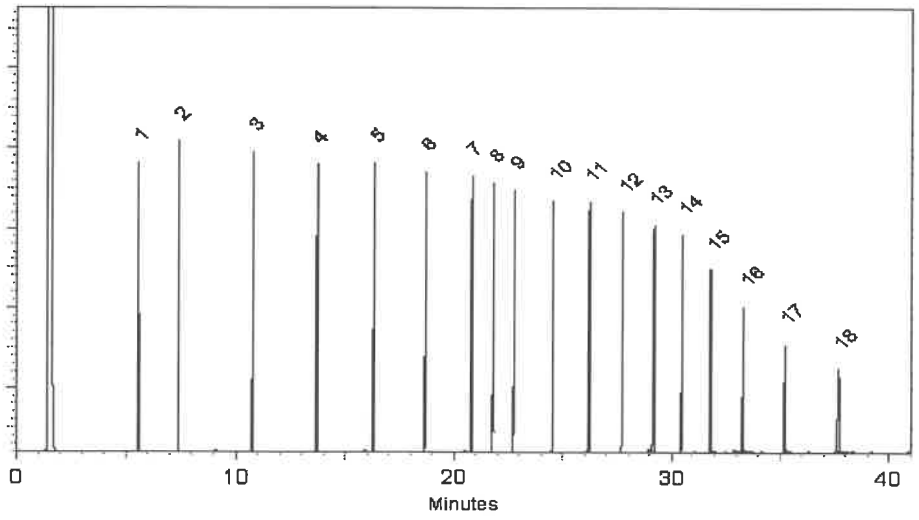
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

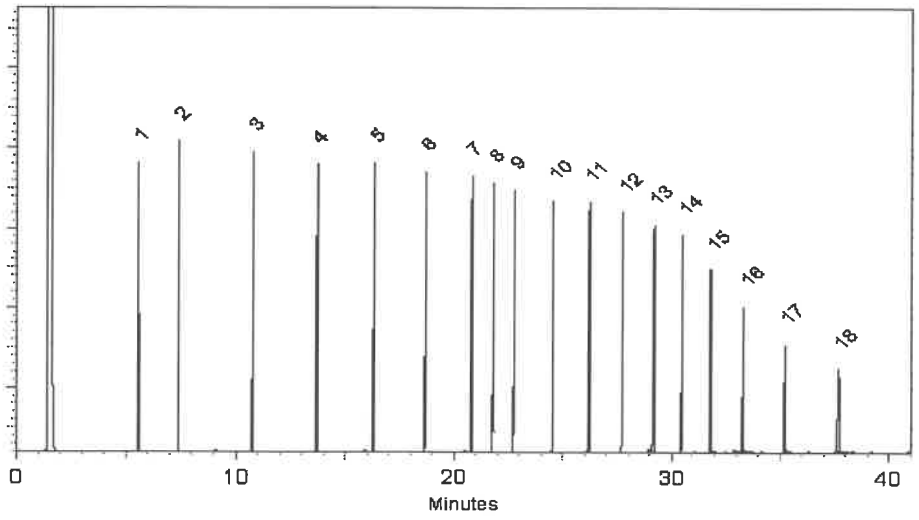
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
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P13889
} Y.P. 12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	201.0 µg/mL	+/- 5.1917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

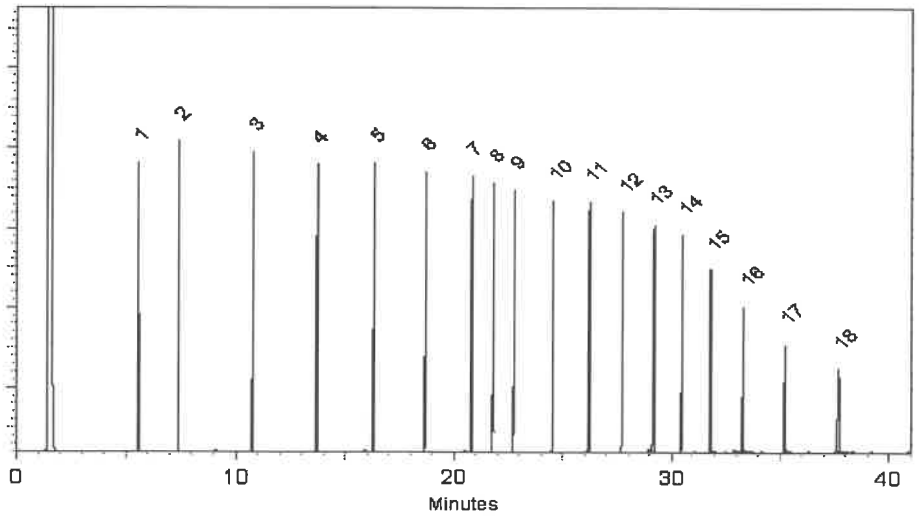
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope D. Riglin
Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

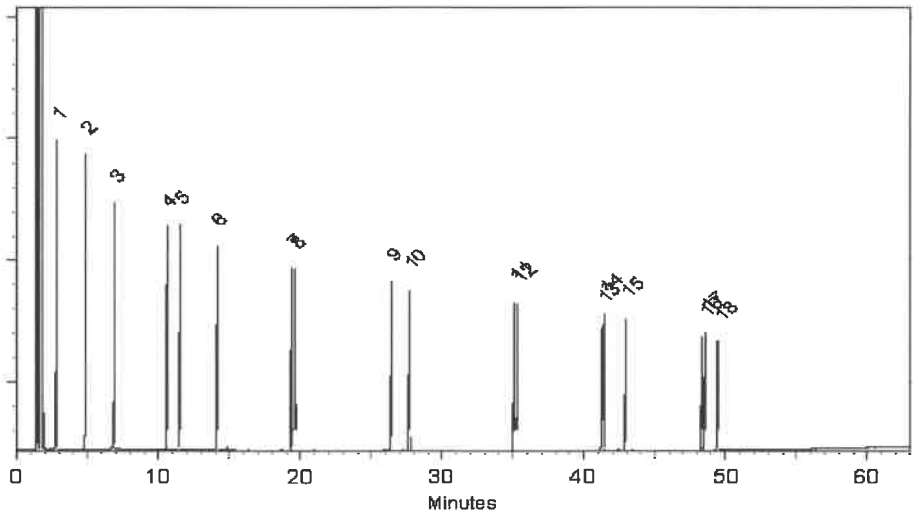
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
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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
@ 4°C/min. (hold 5 min.)

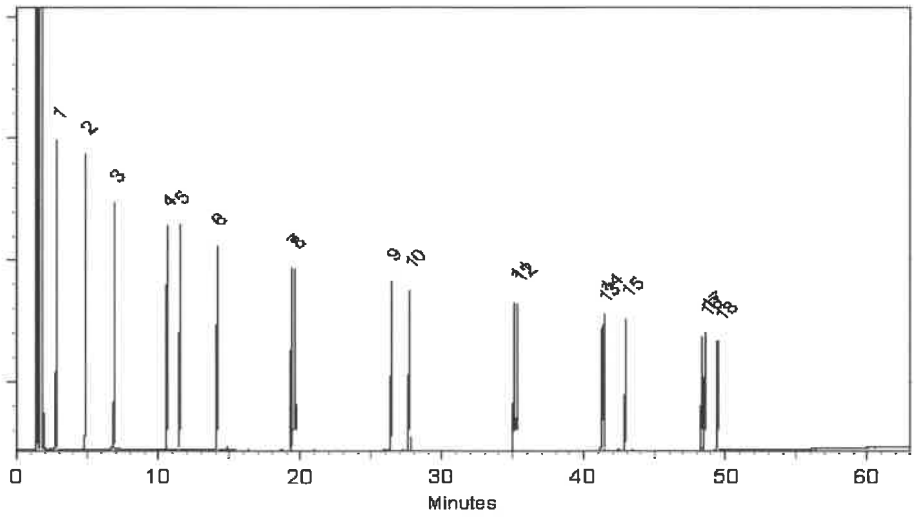
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 30543 **Lot No.:** A0217838

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
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11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
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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
@ 4°C/min. (hold 5 min.)

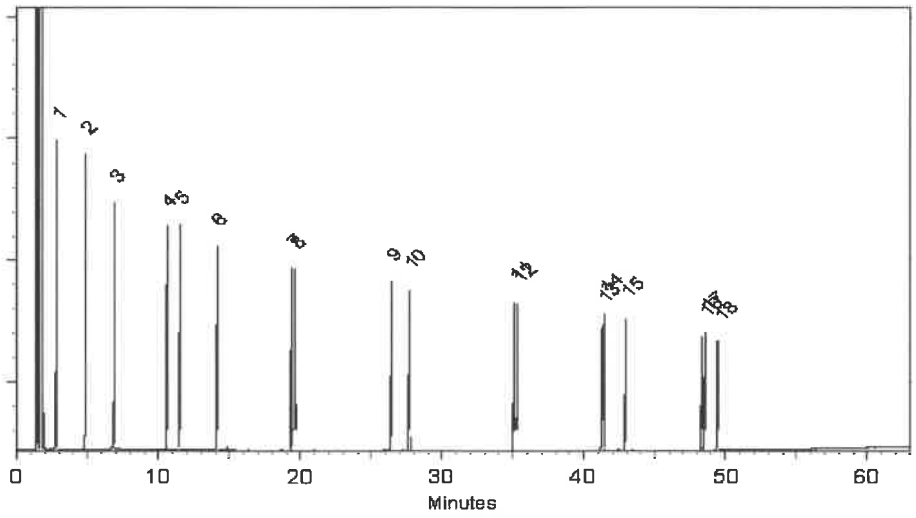
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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Manufacturing Notes:

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P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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Purity 99%

Quality Confirmation Test

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30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
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Temp. Program:
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@ 4°C/min. (hold 5 min.)

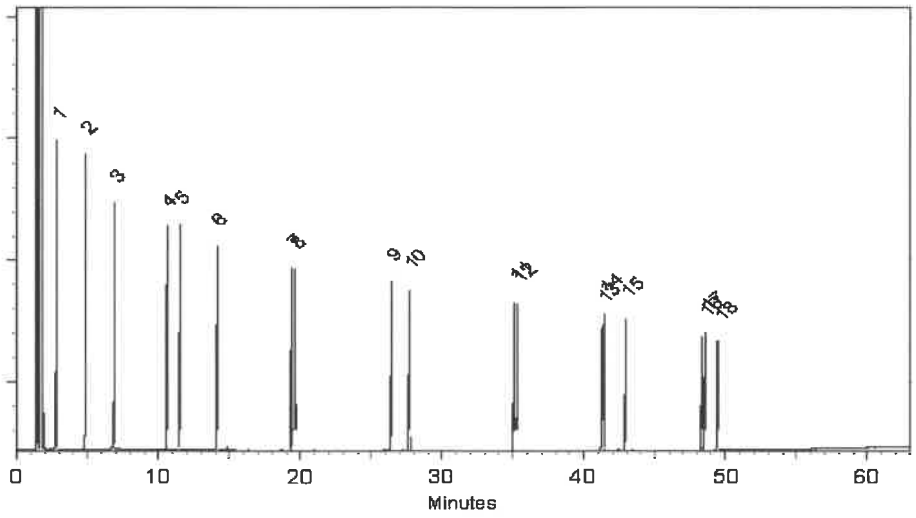
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

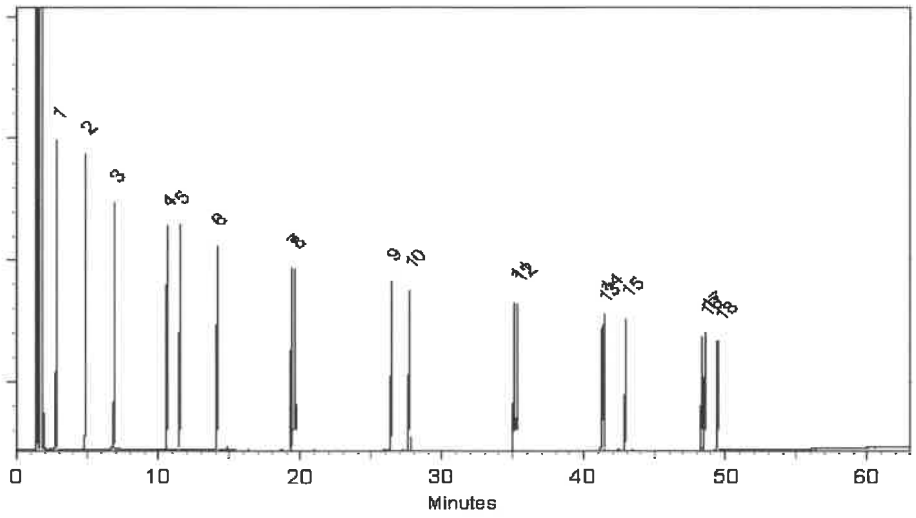
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

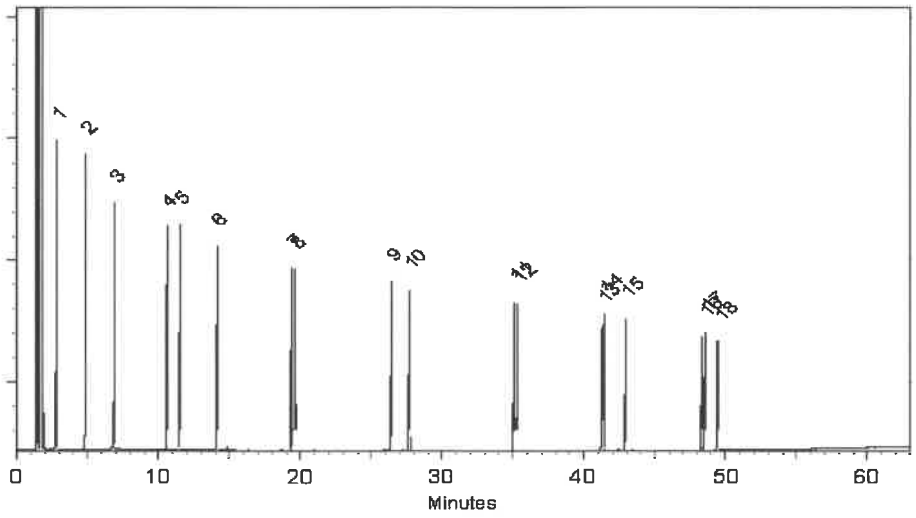
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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Manufacturing Notes:

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Handling Notes:

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Certificate of Analysis

chromatographic plus

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

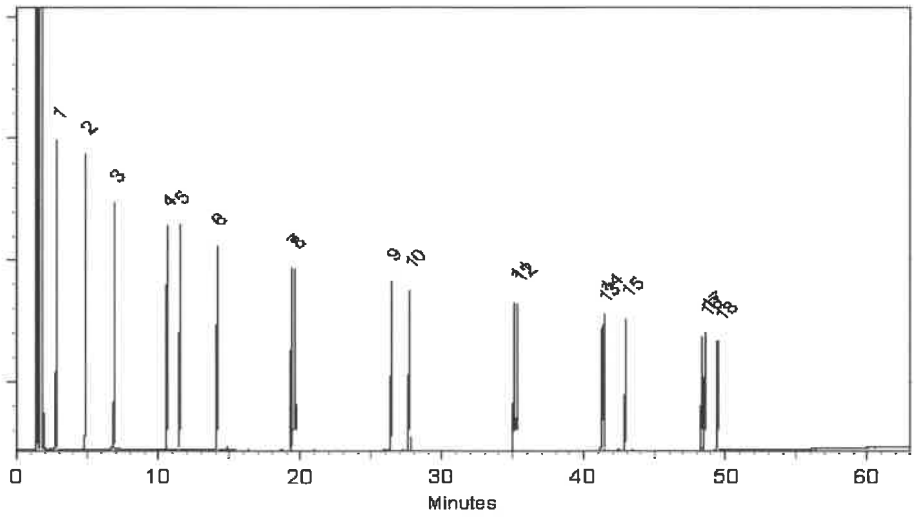
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
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12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
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18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

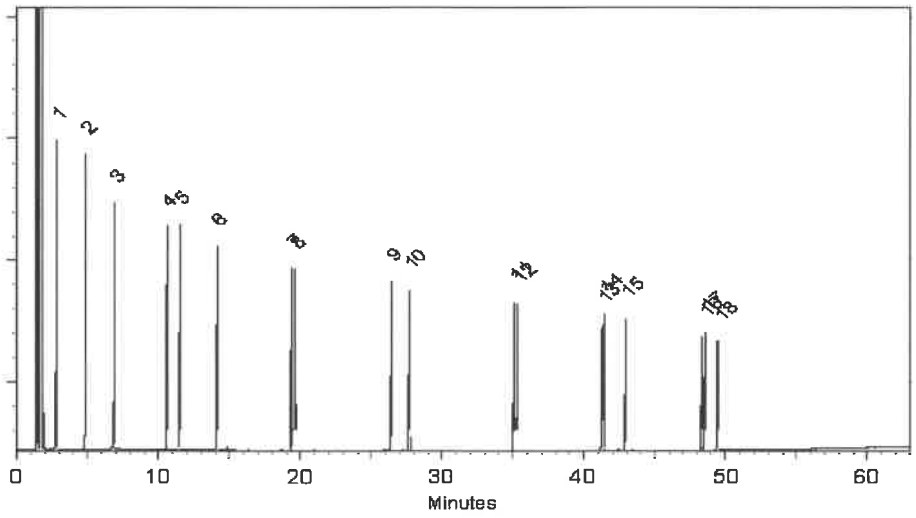
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

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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
@ 4°C/min. (hold 5 min.)

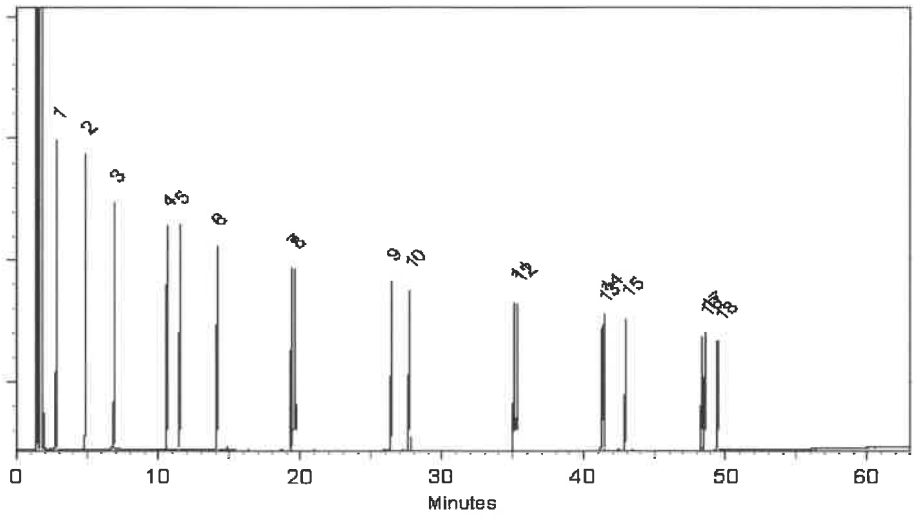
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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chromatographic plus

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

P13835 & P13860 Y.P. 12/09/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

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Purity 99%

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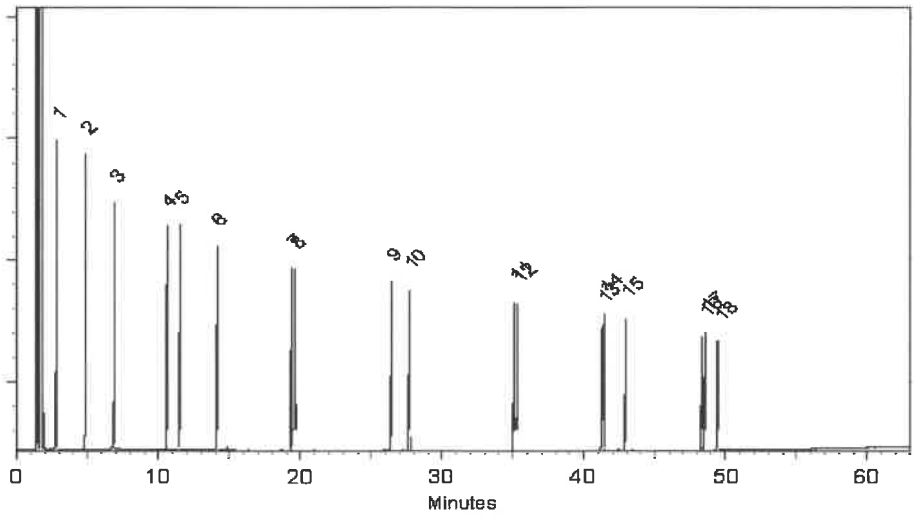
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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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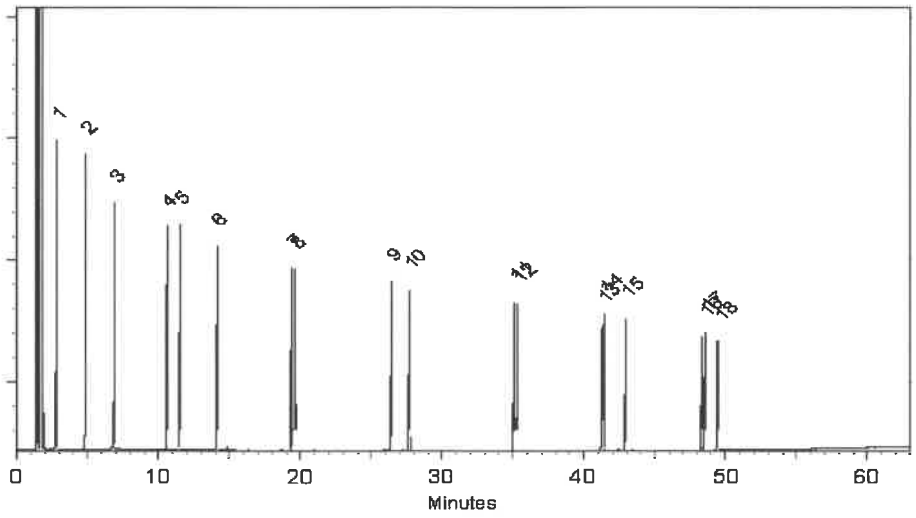
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Det. Temp:
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Det. Type:
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Split Vent:
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Inj. Vol
1µl



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Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Certificate of Analysis

ThermoFisher SCIENTIFIC

W3110 SP update: 06/27/2024

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	02/23/2024
Lot Number	235898		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Feb/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	73
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.670
EVAPORATION RESIDUE	ppm	<= 1	0.3
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.64
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.16
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.06
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.002
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.380
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™ | J.T.Baker®

W3153
TB
Opyte. 11/25/2024
TB

Certificate of Analysis

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. Q1194
COC Number 2041522

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannet Fleming
ADDRESS: 1010 Abrams Ave
CITY Audubon STATE: PA ZIP: 19403
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Replacement of SB
PROJECT NO.: 50000878 LOCATION: Kearny, NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@bemsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtech PO#:
ADDRESS: 284 Sheffield St
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION: Samantha Beasley PHONE: 908-728-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT BEM EDD

ANALYSIS

1 TCL VOCs + 10
2 TCL PAH
3 TAL Metals
4 EDH
5 Cr(III)
6 Cr(VI)
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-110-SB01	S		X	1/25/25	11:33	7		X	X	X	X	X	Y				
2.	B-110-SB02	S		X	1/25/25	13:58	7		X	X	X	X	X	Y				
3.	B-113-SB01	S		X	1/25/25	11:52	7		X	X	X	X	X	Y				
4.	B-113-SB02	S		X	1/25/25	14:44	7		X	X	X	X	X	Y				
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

PRESERVATIVES
COMMENTS
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Dylan C	1-25-25 16:22	1. 1-27-25 0700
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1-C °C
Comments:

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

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CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1194 PORT06
Client Name : Portal Partners Tri-Venture
Client-Contact : Joseph Krupansky
Invoice Name : Portal Partners Tri-Venture
Invoice Contact : Joseph Krupansky

Order Date : 1/27/2025 9:35:00 AM
Project Name : Amtrak Sawtooth Bridges 2
Receive DateTime : 1/27/2025 7:00:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1194-01	B-110-SB01	Solid	01/25/2025	11:33					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1194-02	B-110-SB02	Solid	01/25/2025	13:58					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1194-03	B-113-SB01	Solid	01/25/2025	11:52					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1194-04	B-113-SB02	Solid	01/25/2025	14:44					
					VOC-TCLVOA-10		8260D		10 Bus. Days
~~Q1194-08~~	EB	~~Water~~	~~01/25/2025~~	~~00:00~~					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1194-09	FB	Water	01/25/2025	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days
Q1194-10	TB	Water	01/25/2025	00:00					
					VOC-TCLVOA-10		8260-Low		10 Bus. Days

1/27/25

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q1194 PORT06	**Order Date :**	1/27/2025 9:35:00 AM	**Project Mgr :**	
Client Name :	Portal Partners Tri-Venture	**Project Name :**	Amtrak Sawtooth Bridges 2	**Report Type :**	NJ Reduced
Client Contact :	Joseph Krupansky	**Receive DateTime :**	1/27/2025 7:00:00 AM	**EDD Type :**	EXCEL NJCLEANUP
Invoice Name :	Portal Partners Tri-Venture	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Joseph Krupansky			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : _____

Date / Time : 1/27/25 1120

Received By : _____

Date / Time : 01/27/25 11:20

Storage Area : VOA Refridgerator Room

Rgt#6
R22
Rgt#5