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Cover Page

Order ID : P4839

Project ID : North Point

Client : ENTACT

Lab Sample Number	Client Sample Number
P4839-01	EX-9-TPH-9
P4839-02	EX-9-TPH-10
P4839-03	EX-9-TPH-11
P4839-04	EX-9-TPH-12
P4839-05	EX-9-TPH-13
P4839-06	EX-9-TPH-14
P4839-07	EX-9-TPH-15
P4839-08	EX-9-TPH-16
P4839-09	EX-9-TPH-17
P4839-10	EX-9-TPH-18
P4839-11	EX-9-TPH-19
P4839-12	EX-9-TPH-20
P4839-13	EX-9-TPH-21
P4839-14	EX-10-TPH-1
P4839-15	EX-10-TPH-2
P4839-16	EX-10-TPH-3
P4839-17	EX-4-TPH-1
P4839-18	EX-4-TPH-2
P4839-19	EX-4-TPH-3
P4839-20	EX-4-TPH-4
P4839-21	EX-4-TPH-5
P4839-22	EX-4-TPH-6

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

Signature : _____

Date: 11/25/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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 #: **P4839**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **11/25/2024**

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LAB CHRONICLE

OrderID:	P4839	**OrderDate:**	11/13/2024 2:21:00 PM
Client:	ENTACT	**Project:**	North Point
Contact:	Wyatt Seel	**Location:**	L31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4839-01	**EX-9-TPH-9**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/18/24	
P4839-01DL	**EX-9-TPH-9DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/18/24	
P4839-02	**EX-9-TPH-10**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/18/24	
P4839-02DL	**EX-9-TPH-10DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/18/24	
P4839-03	**EX-9-TPH-11**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/18/24	
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/18/24	
P4839-03DL	**EX-9-TPH-11DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/18/24	
P4839-04	**EX-9-TPH-12**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/15/24	
			Gasoline Range Organics	8015D			11/15/24	

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LAB CHRONICLE

			EPH	NJEPH		11/14/24	11/15/24	
P4839-05	**EX-9-TPH-13**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/18/24	
P4839-05DL	**EX-9-TPH-13DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/18/24	
P4839-06	**EX-9-TPH-14**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/18/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-06DL	**EX-9-TPH-14DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/19/24	
P4839-07	**EX-9-TPH-15**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-07DL	**EX-9-TPH-15DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/18/24	
P4839-08	**EX-9-TPH-16**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/15/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-09	**EX-9-TPH-17**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	

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P4839-09DL	**EX-9-TPH-17DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/18/24	
P4839-10	**EX-9-TPH-18**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/14/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-11	**EX-9-TPH-19**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-11DL	**EX-9-TPH-19DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/19/24	
P4839-12	**EX-9-TPH-20**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-13	**EX-9-TPH-21**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-13DL	**EX-9-TPH-21DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/18/24	
P4839-14	**EX-10-TPH-1**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/14/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-15	**EX-10-TPH-2**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	

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P4839-15DL	**EX-10-TPH-2DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/14/24	11/15/24	
			EPH	NJEPH		11/14/24	11/19/24	
P4839-16	**EX-10-TPH-3**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-17	**EX-4-TPH-1**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-18	**EX-4-TPH-2**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-19	**EX-4-TPH-3**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/16/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-20	**EX-4-TPH-4**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/14/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/14/24	11/15/24	
P4839-21	**EX-4-TPH-5**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/16/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/16/24	11/18/24	
			EPH	NJEPH		11/16/24	11/19/24	
P4839-21DL	**EX-4-TPH-5DL**	**Solid**			**11/13/24**			**11/13/24**
			EPH	NJEPH		11/16/24	11/19/24	
P4839-21DL2	**EX-4-TPH-5DL2**	**Solid**			**11/13/24**			**11/13/24**

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LAB CHRONICLE

			EPH	NJEPH		11/16/24	11/19/24	
P4839-22	**EX-4-TPH-6**	**SOIL**			**11/13/24**			**11/13/24**
			Diesel Range Organics	8015D		11/16/24	11/18/24	
			Gasoline Range Organics	8015D			11/15/24	
			EPH	NJEPH		11/16/24	11/18/24	



QC SUMMARY

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FC111524AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EX-9-TPH-15	72			0
EX-9-TPH-15MS	80			0
EX-9-TPH-15MSD	82			0
EX-9-TPH-16	64			0
EX-9-TPH-17	49			0
EX-9-TPH-18	75			0
EX-9-TPH-19	70			0
EX-9-TPH-20	56			0
EX-9-TPH-21	57			0
PB164996BL	89			0
PB164996BS	69			0
PB164996BSD	77			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: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FC111824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EX-9-TPH-15DL	73			0
EX-9-TPH-17DL	53			0
EX-9-TPH-19DL	62			0
EX-9-TPH-21DL	61			0
EX-4-TPH-5	75			0
EX-4-TPH-5DL	76			0
EX-4-TPH-5DL2	71			0
EX-4-TPH-6	82			0
EX-4-TPH-6MS	78			0
EX-4-TPH-6MSD	77			0
PB165032BL	75			0
PB165032BS	65			0
PB165032BSD	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: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FD111524AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EX-9-TPH-15	90	88	64	0
EX-9-TPH-15MS	116	112	76	0
EX-9-TPH-15MSD	115	110	75	0
EX-9-TPH-16	124	125	60	0
EX-9-TPH-17	123	118	50	0
EX-9-TPH-18	93	94	48	0
EX-9-TPH-19	107	107	65	0
EX-9-TPH-20	102	90	54	0
EX-9-TPH-21	103	92	47	0
PB164996BL	101	93	101	0
PB164996BS	96	88	89	0
PB164996BSD	86	88	84	0

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

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

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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FD111824AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EX-9-TPH-10	122	118	98	0
EX-9-TPH-17DL	126	111	52	0
EX-9-TPH-21DL	112	97	50	0
EX-4-TPH-5	119	136	91	0
EX-4-TPH-5DL	173 *	117	95	1
EX-4-TPH-6	89	87	70	0
EX-4-TPH-6MS	102	101	78	0
EX-4-TPH-6MSD	102	101	77	0
PB165032BL	104	102	96	0
PB165032BS	92	84	79	0
PB165032BSD	94	85	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: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FE111524AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EX-9-TPH-9	48			0
EX-9-TPH-10	99			0
EX-9-TPH-11	61			0
EX-9-TPH-12	49			0
EX-9-TPH-13	69			0
EX-9-TPH-14	60			0
EX-10-TPH-1	73			0
EX-10-TPH-2	45			0
EX-10-TPH-3	65			0
EX-4-TPH-1	73			0
EX-4-TPH-2	98			0
EX-4-TPH-3	79			0
EX-4-TPH-4	108			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: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FE111824AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EX-9-TPH-9DL	52			0
EX-9-TPH-10DL	101			0
EX-9-TPH-11DL	65			0
EX-9-TPH-13DL	71			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: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FE111924AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)			TOT OUT
EX-9-TPH-14DL	70			0
EX-10-TPH-2DL	57			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

Alliance TECHNICAL GROUP
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SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM CASE No.: P4839 SAS No.: P4839 SDG No.: P4839

Run Number: FF111624AR

Client SAMPLE NO.	2-Bromonaphthalene (SURR)	2-Flurobiphenyl (SURR)	ortho-Terphenyl (SURR)	TOT OUT
EX-9-TPH-9	115	115	55	0
EX-9-TPH-9DL	121	120	58	0
EX-9-TPH-11	116	112	54	0
EX-9-TPH-12	127	125	57	0
EX-9-TPH-13	123	120	60	0
EX-9-TPH-13DL	139	134	67	0
EX-9-TPH-14	122	118	50	0
EX-9-TPH-14DL	142 *	137	60	1
EX-10-TPH-1	106	98	62	0
EX-10-TPH-2	103	86	52	0
EX-10-TPH-2DL	98	83	50	0
EX-10-TPH-3	98	85	49	0
EX-4-TPH-1	115	114	75	0
EX-4-TPH-2	88	82	77	0
EX-4-TPH-3	104	100	85	0
EX-4-TPH-4	101	91	105	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

	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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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-07MS **Datafile:** FC067776.D

Client ID : EX-9-TPH-15MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	12.1	26.3	45.6	159	*	(40-140)
Aliphatic C12-C16	8.1	38.7	67.6	358	*	(40-140)
Aliphatic C16-C21	12.1	2.39	16.9	120		(40-140)
Aliphatic C21-C28	16.1	0	18.0	111		(40-140)
Aliphatic C28-C40	24.2	3.38	33.4	124		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-07MSD **Datafile:** FC067777.D

Client ID : EX-9-TPH-15MSD

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	12.1	26.3	45.8	161	*	1.25 |	(40-140)	25
Aliphatic C12-C16	8.1	38.7	67.7	360	*	0.56 |	(40-140)	25
Aliphatic C16-C21	12.1	2.39	17.0	121		0.83 |	(40-140)	25
Aliphatic C21-C28	16.1	0	18.0	111		0 |	(40-140)	25
Aliphatic C28-C40	24.1	3.38	32.0	118		4.96 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-22MS **Datafile:** FC067811.D

Client ID : EX-4-TPH-6MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	11.2	0.72	7.95	65		(40-140)
Aliphatic C12-C16	7.4	0.90	7.89	94		(40-140)
Aliphatic C16-C21	11.2	0	10.9	98		(40-140)
Aliphatic C21-C28	14.9	0	14.1	95		(40-140)
Aliphatic C28-C40	22.3	7.11	26.5	87		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-22MSD **Datafile:** FC067812.D

Client ID : EX-4-TPH-6MSD

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	11.2	0.72	7.66	62		4.09 |	(40-140)	25
Aliphatic C12-C16	7.4	0.90	7.36	87		7.74 |	(40-140)	25
Aliphatic C16-C21	11.2	0	10.6	95		2.8 |	(40-140)	25
Aliphatic C21-C28	14.9	0	13.8	93		2.03 |	(40-140)	25
Aliphatic C28-C40	22.3	7.11	26.0	85		2.45 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-07MS **Datafile:** FD048745.D

Client ID : EX-9-TPH-15MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	8.1	6.12	12.3	77		(40-140)
Aromatic C12-C16	12.1	16.5	31.9	127		(40-140)
Aromatic C16-C21	20.1	6.62	32.6	128		(40-140)
Aromatic C21-C36	32.2	0	43.6	135		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-07MSD **Datafile:** FD048746.D

Client ID : EX-9-TPH-15MSD

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	8.1	6.12	12.2	76		1.58 |	(40-140)	25
Aromatic C12-C16	12.1	16.5	28.4	99		25 |	(40-140)	25
Aromatic C16-C21	20.1	6.62	31.8	125		2.37 |	(40-140)	25
Aromatic C21-C36	32.2	0	42.7	132		2.25 |	(40-140)	25

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-22MS **Datafile:** FD048770.D

Client ID : EX-4-TPH-6MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	7.4	0	6.32	85		(40-140)
Aromatic C12-C16	11.2	0.53	14.1	121		(40-140)
Aromatic C16-C21	18.6	1.10	23.4	119		(40-140)
Aromatic C21-C36	29.8	0	37.8	126		(40-140)

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SOLID EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : P4839-22MSD **Datafile:** FD048771.D

Client ID : EX-4-TPH-6MSD

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	7.4	0	6.28	84		0.59 |	(40-140)	25
Aromatic C12-C16	11.2	0.53	15.1	130		7.17 |	(40-140)	25
Aromatic C16-C21	18.6	1.10	22.7	116		2.55 |	(40-140)	25
Aromatic C21-C36	29.7	0	37.6	126		0 |	(40-140)	25

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB164996BS **Datafile:** FC067772.D

Client ID : PB164996BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	4.80	48		(40-140)
Aliphatic C12-C16	6.7	4.74	71		(40-140)
Aliphatic C16-C21	10	7.88	79		(40-140)
Aliphatic C21-C28	13.3	10.6	80		(40-140)
Aliphatic C28-C40	20.0	18.0	90		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB164996BSD **Datafile:** FC067773.D

Client ID : PB164996BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	5.33	53		10|	(40-140)	50
Aliphatic C12-C16	6.7	5.16	78		8.6|	(40-140)	50
Aliphatic C16-C21	10	9.20	92		15|	(40-140)	50
Aliphatic C21-C28	13.3	12.3	92		14|	(40-140)	50
Aliphatic C28-C40	20.0	21.7	108		18|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB165032BS **Datafile:** FC067808.D

Client ID : PB165032BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C9-C12	10	6.39	64		(40-140)
Aliphatic C12-C16	6.7	5.31	80		(40-140)
Aliphatic C16-C21	10	8.07	81		(40-140)
Aliphatic C21-C28	13.3	10.4	78		(40-140)
Aliphatic C28-C40	20.0	17.7	89		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB165032BSD **Datafile:** FC067809.D

Client ID : PB165032BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD | QC LIMITS	QC Limit Of RPD
Aliphatic C9-C12	10	6.37	64		0.214| (40-140)	50
Aliphatic C12-C16	6.7	5.32	80		0.22| (40-140)	50
Aliphatic C16-C21	10	8.08	81		0.09| (40-140)	50
Aliphatic C21-C28	13.3	10.4	78		0.0281| (40-140)	50
Aliphatic C28-C40	20.0	17.7	89		0.0129| (40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB164996BS **Datafile:** FD048741.D

Client ID : PB164996BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	4.54	68		(40-140)
Aromatic C12-C16	10	8.71	87		(40-140)
Aromatic C16-C21	16.7	17.6	105		(40-140)
Aromatic C21-C36	26.6	30.5	114		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB164996BSD **Datafile:** FD048742.D

Client ID : PB164996BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	4.35	65		4.2|	(40-140)	50
Aromatic C12-C16	10	8.03	80		8.2|	(40-140)	50
Aromatic C16-C21	16.7	16.2	97		7.7|	(40-140)	50
Aromatic C21-C36	26.6	27.9	104		8.5|	(40-140)	50

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB165032BS **Datafile:** FD048767.D

Client ID : PB165032BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aromatic C10-C12	6.7	5.16	78		(40-140)
Aromatic C12-C16	10	9.14	92		(40-140)
Aromatic C16-C21	16.7	16.7	100		(40-140)
Aromatic C21-C36	26.6	26.3	99		(40-140)

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SOLID EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** ENTACT

Lab Code: CHEM **Cas No:** P4839 **SAS No :** P4839 **SDG No:** P4839

Sample No : PB165032BSD **Datafile:** FD048768.D

Client ID : PB165032BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD |	QC LIMITS	QC Limit Of RPD
Aromatic C10-C12	6.7	5.24	79		1.5|	(40-140)	50
Aromatic C12-C16	10	9.30	93		1.7|	(40-140)	50
Aromatic C16-C21	16.7	17.0	102		2.1|	(40-140)	50
Aromatic C21-C36	26.6	26.7	100		1.5|	(40-140)	50

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164996BL

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG NO.: P4839

Instrument ID: FID_C Lab Sample ID: PB164996BL

Matrix: (soil/water) Solid Date Extracted: 11/14/2024 2:15:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164996BS	PB164996BS
PB164996BSD	PB164996BSD
EX-9-TPH-9	P4839-01
EX-9-TPH-10	P4839-02
EX-9-TPH-11	P4839-03
EX-9-TPH-12	P4839-04
EX-9-TPH-13	P4839-05
EX-9-TPH-14	P4839-06
EX-9-TPH-15	P4839-07
EX-9-TPH-16	P4839-08
EX-9-TPH-17	P4839-09
EX-9-TPH-18	P4839-10
EX-9-TPH-19	P4839-11
EX-9-TPH-20	P4839-12
EX-9-TPH-15MS	P4839-07MS
EX-9-TPH-15MSD	P4839-07MSD
EX-9-TPH-21	P4839-13
EX-10-TPH-1	P4839-14
EX-10-TPH-2	P4839-15
EX-10-TPH-3	P4839-16
EX-4-TPH-1	P4839-17
EX-4-TPH-2	P4839-18
EX-4-TPH-3	P4839-19
EX-4-TPH-4	P4839-20

COMMENTS:

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4B

METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165032BL

Lab Name: CHEMTECH Contract: ENTA05

Lab Code: CHEM Case No.: P4839 SAS No.: P4839 SDG NO.: P4839

Instrument ID: FID_C Lab Sample ID: PB165032BL

Matrix: (soil/water) Solid Date Extracted: 11/16/2024 9:30:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB165032BS	PB165032BS
PB165032BSD	PB165032BSD
EX-4-TPH-5	P4839-21
EX-4-TPH-6	P4839-22
EX-4-TPH-6MS	P4839-22MS
EX-4-TPH-6MSD	P4839-22MSD

COMMENTS:



SAMPLE DATA

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Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-9			SDG No.:	P4839
Lab Sample ID:	P4839-01			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.1
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 9:21	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	88.5		10	4.46	11.7	mg/kg	FE051300.D
Aliphatic C12-C16	Aliphatic C12-C16	149		10	2.81	7.82	mg/kg	FE051300.D
Aliphatic C16-C21	Aliphatic C16-C21	21.5		10	3.52	11.7	mg/kg	FE051300.D
Aliphatic C21-C28	Aliphatic C21-C28	1.90		1	0.94	1.56	mg/kg	FE051262.D
Aliphatic C28-C40	Aliphatic C28-C40	5.09		1	2.11	2.35	mg/kg	FE051262.D
Aromatic C10-C12	Aromatic C10-C12	21.9		5	1.76	3.91	mg/kg	FF015069.D
Aromatic C12-C16	Aromatic C12-C16	55.2		5	1.99	5.86	mg/kg	FF015069.D
Aromatic C16-C21	Aromatic C16-C21	46.9		5	5.63	9.77	mg/kg	FF015069.D
Aromatic C21-C36	Aromatic C21-C36	4.86		1	2.35	3.13	mg/kg	FF015054.D
Total AliphaticEPH	Total AliphaticEPH	266			13.8	35.1	mg/kg	
Total AromaticEPH	Total AromaticEPH	129			11.7	22.7	mg/kg	
Total EPH	Total EPH	395			25.6	57.8	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

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Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-9			SDG No.:	P4839
Lab Sample ID:	P4839-01			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.1
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 9:21	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	88.5		10	4.46	11.7	mg/kg	FE051300.D
Aliphatic C12-C16	Aliphatic C12-C16	149		10	2.81	7.82	mg/kg	FE051300.D
Aliphatic C16-C21	Aliphatic C16-C21	21.5		10	3.52	11.7	mg/kg	FE051300.D
Aliphatic C21-C28	Aliphatic C21-C28	1.90		1	0.94	1.56	mg/kg	FE051262.D
Aliphatic C28-C40	Aliphatic C28-C40	5.09		1	2.11	2.35	mg/kg	FE051262.D
Aromatic C10-C12	Aromatic C10-C12	21.9		5	1.76	3.91	mg/kg	FF015069.D
Aromatic C12-C16	Aromatic C12-C16	55.2		5	1.99	5.86	mg/kg	FF015069.D
Aromatic C16-C21	Aromatic C16-C21	46.9		5	5.63	9.77	mg/kg	FF015069.D
Aromatic C21-C36	Aromatic C21-C36	4.86		1	2.35	3.13	mg/kg	FF015054.D
Total AliphaticEPH	Total AliphaticEPH	266			13.8	35.1	mg/kg	
Total AromaticEPH	Total AromaticEPH	129			11.7	22.7	mg/kg	
Total EPH	Total EPH	395			25.6	57.8	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

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Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-9			SDG No.:	P4839
Lab Sample ID:	P4839-01			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.1
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051262.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		75.0	E	0.45	1.17	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		129	E	0.28	0.78	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		26.6	E	0.35	1.17	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.90		0.94	1.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		5.09		2.11	2.35	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		23.8		40 - 140	48%	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:	P4839-01	Acq On:	15 Nov 2024 14:48
Client Sample ID:	EX-9-TPH-9	Operator:	YP\AJ
Data file:	FE051262.D	Misc:	
Instrument:	FID_E	ALS Vial:	6
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	134131901	958.669	300	ug/ml
Aliphatic C12-C16	6.754	10.185	232203783	1650	200	ug/ml
Aliphatic C16-C21	10.186	13.544	46949901	340.79	300	ug/ml
Aliphatic C21-C28	13.545	17.200	3251236	24.272	400	ug/ml
Aliphatic C28-C40	17.201	22.043	8380408	65.091	600	ug/ml
Aliphatic EPH	3.134	22.043	424917229	3040		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.279	13.279	2701622	23.8		ug/ml
Aliphatic C9-C28	3.134	17.200	416536821	2970	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051262.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 14:48
Operator : YP\AJ
Sample : P4839-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9

Integration File: autoint1.e
Quant Time: Nov 16 08:17:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.279	2701622	23.796 ug/ml
Spiked Amount 50.000		Recovery = 47.59%	
Target Compounds			

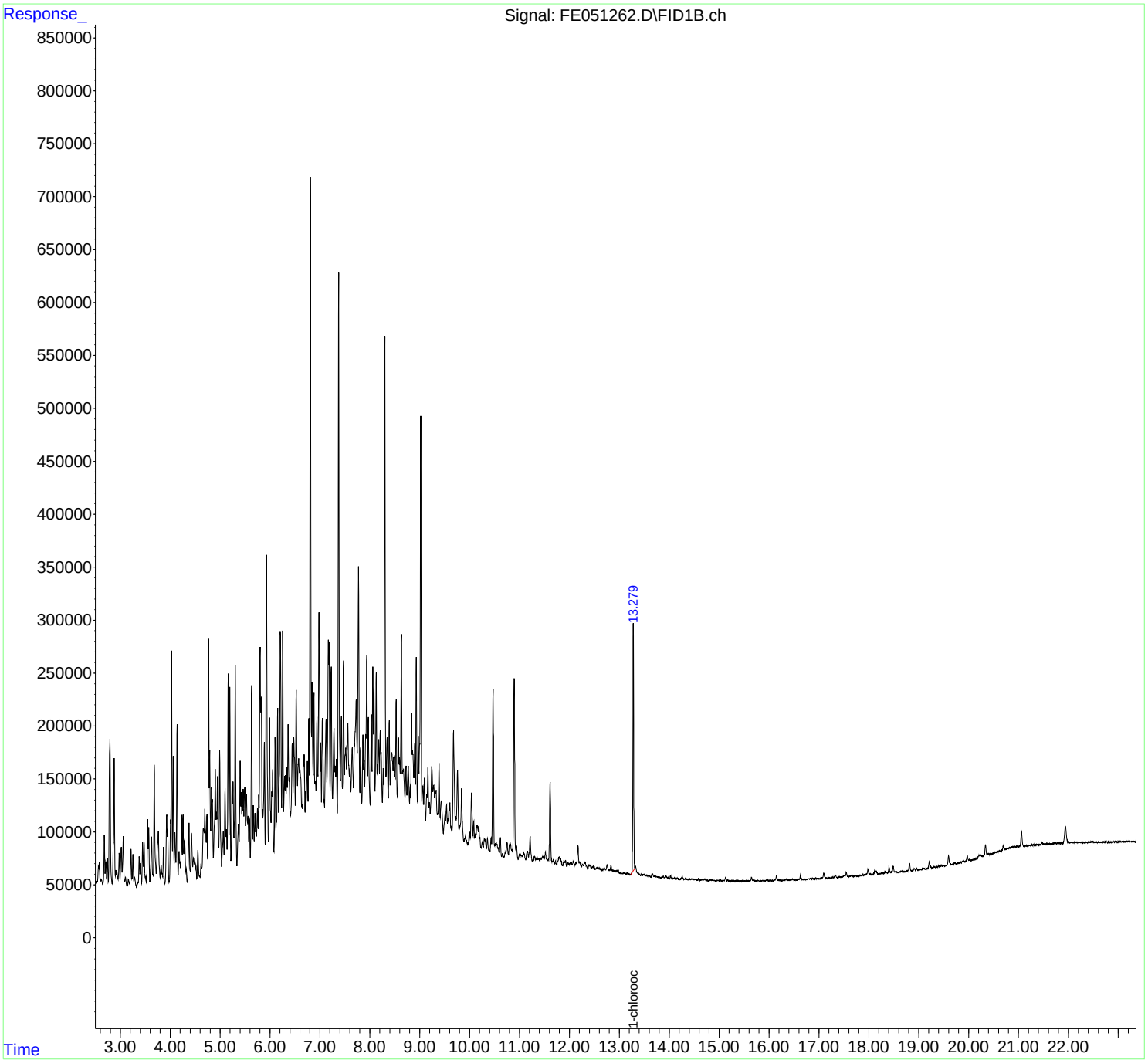
(f)=RT Delta > 1/2 Window (m)=manual int.

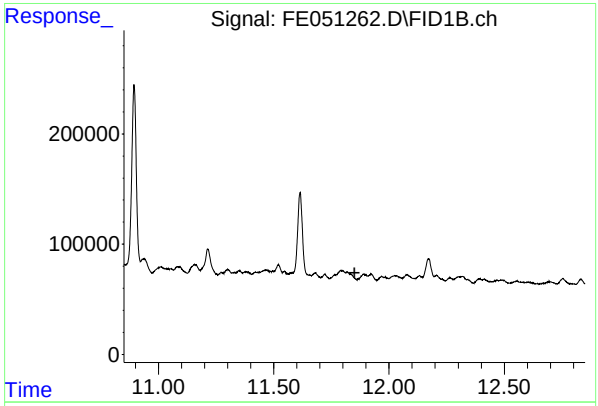
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051262.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 14:48
Operator : YP\AJ
Sample : P4839-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9

Integration File: autoint1.e
Quant Time: Nov 16 08:17:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

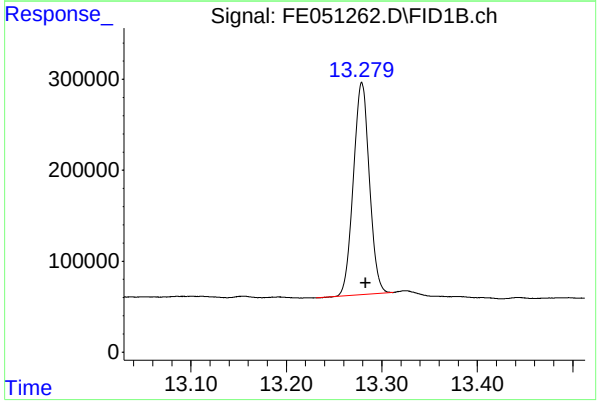




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9



#12 1-chlorooctadecane (SURR)

R.T.: 13.279 min
Delta R.T.: -0.004 min
Response: 2701622
Conc: 23.80 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051262.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 14:48
Sample : P4839-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.253	3.214	3.272	BV	15065	-81116	-1.17%	-0.033%
2	3.288	3.272	3.326	PV	5113	61182	0.88%	0.025%
3	3.378	3.326	3.393	PV	28069	372391	5.36%	0.151%
4	3.406	3.393	3.426	VV	21468	253914	3.66%	0.103%
5	3.447	3.426	3.461	VV	40891	478803	6.90%	0.194%
6	3.477	3.461	3.508	VV	41180	580095	8.36%	0.235%
7	3.515	3.508	3.527	VV	8849	78219	1.13%	0.032%
8	3.548	3.527	3.559	VV	62124	650805	9.38%	0.264%
9	3.570	3.559	3.592	VV	55041	600039	8.64%	0.243%
10	3.626	3.592	3.661	VV	45460	822065	11.84%	0.333%
11	3.681	3.661	3.719	VV	112757	1526428	21.99%	0.619%
12	3.762	3.719	3.797	VV	50198	1257751	18.12%	0.510%
13	3.818	3.797	3.851	VV	17579	367795	5.30%	0.149%
14	3.865	3.851	3.894	VV	34573	356718	5.14%	0.145%
15	3.929	3.894	3.977	PV	64668	1434614	20.67%	0.582%
16	4.027	4.001	4.045	BV	181550	1708728	24.62%	0.693%
17	4.060	4.045	4.079	PV	93834	834792	12.03%	0.338%
18	4.095	4.079	4.114	PV	30457	321144	4.63%	0.130%
19	4.137	4.114	4.159	VV	138144	1449687	20.88%	0.588%
20	4.177	4.159	4.208	PV	22522	373132	5.38%	0.151%
21	4.227	4.208	4.241	VV	58709	664920	9.58%	0.270%
22	4.257	4.241	4.272	VV	60168	735938	10.60%	0.298%
23	4.287	4.272	4.341	VV	37502	772157	11.12%	0.313%
24	4.377	4.341	4.403	PV	55425	797452	11.49%	0.323%
25	4.425	4.403	4.451	VV	45193	760966	10.96%	0.308%
26	4.468	4.451	4.484	VV	21133	351617	5.07%	0.143%
27	4.494	4.484	4.533	VV	17972	332684	4.79%	0.135%
28	4.555	4.533	4.596	VV	26952	388325	5.59%	0.157%
29	4.665	4.596	4.680	VV	45681	1028207	14.81%	0.417%
30	4.694	4.680	4.722	VV	63893	1191567	17.17%	0.483%
31	4.736	4.722	4.751	VV	58145	713173	10.27%	0.289%
32	4.770	4.751	4.811	VV	221855	3713524	53.50%	1.505%
33	4.829	4.811	4.865	VV	81800	1868589	26.92%	0.757%
34	4.903	4.865	4.933	VV	98382	2216116	31.92%	0.898%
35	4.947	4.933	4.974	VV	90610	1317823	18.98%	0.534%
36	4.993	4.974	5.031	VV	114506	1657521	23.88%	0.672%

37	5.064	5.031	5.079	VV	37597	651076	9.38%	0.264%
38	5.099	5.079	5.140	VV	76700	1453558	20.94%	0.589%
39	5.162	5.140	5.179	VV	183736	2049884	29.53%	0.831%
40	5.195	5.179	5.217	VV	170444	1810676	26.08%	0.734%
41	5.240	5.217	5.249	VV	78775	933481	13.45%	0.378%
42	5.259	5.249	5.276	VV	80564	951955	13.71%	0.386%
43	5.304	5.276	5.338	VV	189718	2584319	37.23%	1.048%
44	5.368	5.338	5.381	PV	39325	623129	8.98%	0.253%
45	5.403	5.381	5.416	VV	97680	1294914	18.65%	0.525%
46	5.424	5.416	5.436	VV	68132	704317	10.15%	0.286%
47	5.463	5.436	5.476	VV	69870	1363848	19.65%	0.553%
48	5.494	5.476	5.511	VV	71666	1196301	17.23%	0.485%
49	5.527	5.511	5.550	VV	64422	1156320	16.66%	0.469%
50	5.560	5.550	5.574	VV	43384	504992	7.27%	0.205%
51	5.587	5.574	5.606	VV	39201	448273	6.46%	0.182%
52	5.633	5.606	5.652	VV	165549	1980548	28.53%	0.803%
53	5.665	5.652	5.683	VV	51187	618374	8.91%	0.251%
54	5.698	5.683	5.728	VV	43469	776470	11.19%	0.315%
55	5.749	5.728	5.761	VV	46779	675733	9.73%	0.274%
56	5.802	5.761	5.816	VV	197629	3329623	47.97%	1.350%
57	5.824	5.816	5.860	VV	150791	2169792	31.26%	0.880%
58	5.886	5.860	5.904	VV	106231	1534916	22.11%	0.622%
59	5.929	5.904	5.968	VV	281769	4343968	62.58%	1.761%
60	5.990	5.968	6.020	VV	127289	1915274	27.59%	0.776%
61	6.054	6.020	6.078	VV	78332	1521947	21.92%	0.617%
62	6.102	6.078	6.120	PV	106557	1128534	16.26%	0.457%
63	6.153	6.120	6.172	VV	131153	1903588	27.42%	0.772%
64	6.208	6.172	6.233	VV	199234	3742453	53.91%	1.517%
65	6.255	6.233	6.274	VV	197348	2364060	34.06%	0.958%
66	6.293	6.274	6.304	VV	58056	813988	11.73%	0.330%
67	6.313	6.304	6.324	VV	57769	618251	8.91%	0.251%
68	6.338	6.324	6.348	VV	63671	737565	10.63%	0.299%
69	6.363	6.348	6.413	VV	102278	1969089	28.37%	0.798%
70	6.446	6.413	6.463	VV	80300	1356236	19.54%	0.550%
71	6.479	6.463	6.507	VV	82885	1466493	21.13%	0.594%
72	6.526	6.507	6.551	VV	125405	1892890	27.27%	0.767%
73	6.574	6.551	6.591	VV	57586	1163572	16.76%	0.472%
74	6.600	6.591	6.652	VV	45571	991096	14.28%	0.402%
75	6.685	6.652	6.701	VBA	53706	1012184	14.58%	0.410%
76	6.715	6.701	6.725	BV	19233	160546	2.31%	0.065%
77	6.749	6.725	6.763	VV	47447	649279	9.35%	0.263%
78	6.778	6.763	6.789	VV	88226	828765	11.94%	0.336%
79	6.810	6.789	6.831	VV	602345	6941760	100.00%	2.814%
80	6.842	6.831	6.865	VV	123070	1659833	23.91%	0.673%
81	6.881	6.865	6.921	VV	114619	1717081	24.74%	0.696%
82	6.941	6.921	6.960	VV	91479	1334123	19.22%	0.541%
83	6.982	6.960	7.009	VV	190632	3036026	43.74%	1.231%
84	7.018	7.009	7.032	VV	68288	645414	9.30%	0.262%
85	7.049	7.032	7.094	VV	91199	1598813	23.03%	0.648%
86	7.123	7.094	7.142	VV	91934	1548772	22.31%	0.628%
87	7.184	7.142	7.205	VV	166007	3909977	56.33%	1.585%
88	7.227	7.205	7.254	VV	142171	2054395	29.59%	0.833%
89	7.283	7.254	7.299	VV	83789	1465307	21.11%	0.594%

90	7.306	7.299	7.319	VV	48808	533278	7.68%	0.216%
91	7.331	7.319	7.349	VV	56457	671127	9.67%	0.272%
92	7.376	7.349	7.411	VV	517941	6473477	93.25%	2.624%
93	7.431	7.411	7.452	VV	97777	1551181	22.35%	0.629%
94	7.475	7.452	7.493	VV	150951	2020502	29.11%	0.819%
95	7.519	7.493	7.533	VV	68843	1442566	20.78%	0.585%
96	7.561	7.533	7.591	VV	92157	2255568	32.49%	0.914%
97	7.602	7.591	7.622	VV	50550	762847	10.99%	0.309%
98	7.648	7.622	7.674	VV	70380	1593190	22.95%	0.646%
99	7.727	7.674	7.748	VV	117219	3598571	51.84%	1.459%
100	7.775	7.748	7.801	VV	242052	3996022	57.56%	1.620%
101	7.817	7.801	7.839	VV	72021	1021161	14.71%	0.414%
102	7.863	7.839	7.899	VV	84224	1896806	27.32%	0.769%
103	7.941	7.899	7.956	VV	161981	3112159	44.83%	1.262%
104	7.970	7.956	8.008	VV	101973	1777414	25.60%	0.721%
105	8.031	8.008	8.044	VV	105921	1355057	19.52%	0.549%
106	8.062	8.044	8.075	VV	151099	1979082	28.51%	0.802%
107	8.085	8.075	8.105	VV	133236	1575053	22.69%	0.638%
108	8.129	8.105	8.149	VV	145886	2177060	31.36%	0.883%
109	8.180	8.149	8.194	VV	83905	1787996	25.76%	0.725%
110	8.210	8.194	8.253	VV	91899	2225222	32.06%	0.902%
111	8.270	8.253	8.280	VV	57608	709806	10.23%	0.288%
112	8.302	8.280	8.326	VV	466127	5568350	80.22%	2.257%
113	8.347	8.326	8.371	VV	87901	1714925	24.70%	0.695%
114	8.390	8.371	8.409	VV	104030	1486833	21.42%	0.603%
115	8.444	8.409	8.467	VV	73975	2228085	32.10%	0.903%
116	8.479	8.467	8.508	VV	70526	1473926	21.23%	0.597%
117	8.529	8.508	8.552	VV	125213	1953662	28.14%	0.792%
118	8.576	8.552	8.589	VV	89994	1408567	20.29%	0.571%
119	8.597	8.589	8.610	VV	72533	827326	11.92%	0.335%
120	8.634	8.610	8.654	VV	188470	2900143	41.78%	1.176%
121	8.674	8.654	8.706	VV	61012	1620333	23.34%	0.657%
122	8.726	8.706	8.745	VV	65022	1140871	16.43%	0.462%
123	8.772	8.745	8.797	VV	65077	1571263	22.63%	0.637%
124	8.811	8.797	8.820	VV	46858	551361	7.94%	0.224%
125	8.838	8.820	8.883	VV	115237	2900392	41.78%	1.176%
126	8.901	8.883	8.915	VV	88379	1360501	19.60%	0.552%
127	8.932	8.915	8.956	VV	169685	2323335	33.47%	0.942%
128	8.974	8.956	8.986	VV	94744	1248944	17.99%	0.506%
129	9.022	8.986	9.047	VV	397067	5824659	83.91%	2.361%
130	9.065	9.047	9.081	VV	49734	873877	12.59%	0.354%
131	9.096	9.081	9.119	VV	57429	891804	12.85%	0.362%
132	9.166	9.119	9.184	VV	68390	1639366	23.62%	0.665%
133	9.195	9.184	9.212	VV	35571	525626	7.57%	0.213%
134	9.244	9.212	9.266	VV	69531	1658950	23.90%	0.672%
135	9.282	9.266	9.301	VV	52520	1011563	14.57%	0.410%
136	9.328	9.301	9.356	VV	48240	1328694	19.14%	0.539%
137	9.389	9.356	9.412	VV	74834	1423202	20.50%	0.577%
138	9.432	9.412	9.475	VV	38913	1039977	14.98%	0.422%
139	9.509	9.475	9.521	VV	27677	557288	8.03%	0.226%
140	9.540	9.521	9.557	VV	37138	615628	8.87%	0.250%
141	9.606	9.557	9.646	VV	39695	1363747	19.65%	0.553%

142	9.679	9.646	9.733	VV	108352	2527152	36.41%	1.024%
143	9.759	9.733	9.787	VV	72391	1389048	20.01%	0.563%
144	9.841	9.787	9.886	VV	55982	1429868	20.60%	0.580%
145	9.918	9.886	9.955	VV	11132	348875	5.03%	0.141%
146	9.964	9.955	9.975	VV	6411	69847	1.01%	0.028%
147	9.998	9.975	10.013	VV	16582	269095	3.88%	0.109%
148	10.039	10.013	10.070	VV	54337	1045379	15.06%	0.424%
149	10.085	10.070	10.104	VV	27769	399317	5.75%	0.162%
150	10.147	10.104	10.175	VV	24337	803949	11.58%	0.326%
151	10.187	10.175	10.231	VV	24098	478241	6.89%	0.194%
152	10.255	10.231	10.274	VV	9665	182380	2.63%	0.074%
153	10.297	10.274	10.338	VV	13117	372666	5.37%	0.151%
154	10.359	10.338	10.411	VV	14502	299388	4.31%	0.121%
155	10.432	10.411	10.443	VV	15950	209284	3.01%	0.085%
156	10.471	10.443	10.501	VV	156391	2212113	31.87%	0.897%
157	10.534	10.501	10.597	VV	12504	529371	7.63%	0.215%
158	10.618	10.597	10.642	VV	17966	228775	3.30%	0.093%
159	10.661	10.642	10.685	VV	3573	51102	0.74%	0.021%
160	10.716	10.685	10.727	PV	5361	73911	1.06%	0.030%
161	10.752	10.727	10.780	VV	15349	271336	3.91%	0.110%
162	10.801	10.780	10.810	VV	13044	167512	2.41%	0.068%
163	10.820	10.810	10.857	VV	13515	277263	3.99%	0.112%
164	10.895	10.857	10.924	VV	169895	2466005	35.52%	1.000%
165	10.936	10.924	10.974	VV	12828	226306	3.26%	0.092%
166	11.011	10.974	11.065	VV	5967	220160	3.17%	0.089%
167	11.087	11.065	11.125	VV	6606	151471	2.18%	0.061%
168	11.159	11.125	11.181	VV	8826	195634	2.82%	0.079%
169	11.214	11.181	11.257	VV	23370	430295	6.20%	0.174%
170	11.301	11.257	11.319	VV	5232	108001	1.56%	0.044%
171	11.329	11.319	11.335	VV	2809	23867	0.34%	0.010%
172	11.350	11.335	11.365	VV	4630	65273	0.94%	0.026%
173	11.380	11.365	11.405	VV	3919	75857	1.09%	0.031%
174	11.470	11.405	11.490	VV	6203	222938	3.21%	0.090%
175	11.520	11.490	11.563	VV	10993	267940	3.86%	0.109%
176	11.614	11.563	11.663	VV	77279	1223726	17.63%	0.496%
177	11.679	11.663	11.703	VV	4651	71445	1.03%	0.029%
178	11.721	11.703	11.742	VV	3961	44627	0.64%	0.018%
179	11.792	11.742	11.861	VV	7719	302728	4.36%	0.123%
180	11.891	11.861	11.908	VV	5258	84271	1.21%	0.034%
181	11.922	11.908	11.946	VV	5116	71091	1.02%	0.029%
182	11.968	11.946	11.999	VV	3540	69730	1.00%	0.028%
183	12.026	11.999	12.057	VV	4524	121755	1.75%	0.049%
184	12.078	12.057	12.111	VV	5762	126695	1.83%	0.051%
185	12.132	12.111	12.144	VV	5225	79117	1.14%	0.032%
186	12.171	12.144	12.244	VV	20828	480047	6.92%	0.195%
187	12.264	12.244	12.279	VV	4126	65720	0.95%	0.027%
188	12.318	12.279	12.368	VV	5889	191576	2.76%	0.078%
189	12.391	12.368	12.447	PV	4222	128472	1.85%	0.052%
190	12.491	12.447	12.522	VV	3679	117192	1.69%	0.048%
191	12.553	12.522	12.591	VV	3011	87215	1.26%	0.035%
192	12.601	12.591	12.652	VV	2444	63819	0.92%	0.026%
193	12.695	12.652	12.731	VV	3631	107475	1.55%	0.044%
194	12.754	12.731	12.810	VV	6712	159448	2.30%	0.065%

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195	12.832	12.810	12.878	VV	6592	131567	1.90%	0.053%
196	12.889	12.878	12.912	VV	2020	34416	0.50%	0.014%
197	12.944	12.912	12.958	VV	2497	52414	0.76%	0.021%
198	12.976	12.958	13.068	VV	3487	65584	0.94%	0.027%
199	13.111	13.068	13.137	VV	1401	36285	0.52%	0.015%
200	13.155	13.137	13.174	PV	1728	18583	0.27%	0.008%
201	13.193	13.174	13.215	VV	1029	14157	0.20%	0.006%
202	13.279	13.215	13.312	VV	237005	2870280	41.35%	1.164%
203	13.324	13.312	13.426	VV	8685	235321	3.39%	0.095%
204	13.443	13.426	13.461	VV	1837	23948	0.34%	0.010%
205	13.493	13.461	13.527	VV	1802	55182	0.79%	0.022%
206	13.542	13.527	13.590	VV	1427	36961	0.53%	0.015%
207	13.606	13.590	13.629	VV	1132	16396	0.24%	0.007%
208	13.666	13.629	13.690	PV	3146	53544	0.77%	0.022%
209	13.710	13.690	13.740	VV	1665	33164	0.48%	0.013%
210	13.753	13.740	13.775	VV	1007	14677	0.21%	0.006%
211	13.785	13.775	13.797	VV	486	5332	0.08%	0.002%
212	13.815	13.797	13.835	VV	528	9368	0.13%	0.004%
213	13.878	13.835	13.905	VV	1533	40261	0.58%	0.016%
214	13.936	13.905	13.964	VV	2096	42175	0.61%	0.017%
215	13.975	13.964	14.006	VV	921	13345	0.19%	0.005%
216	14.027	14.006	14.064	VV	2673	35747	0.51%	0.014%
217	14.078	14.064	14.097	VV	825	10819	0.16%	0.004%
218	14.112	14.097	14.140	VV	753	11660	0.17%	0.005%
219	14.172	14.140	14.211	VV	902	18724	0.27%	0.008%
220	14.261	14.211	14.288	PV	2180	45742	0.66%	0.019%
221	14.298	14.288	14.307	VV	604	5744	0.08%	0.002%
222	14.324	14.307	14.372	VV	800	19464	0.28%	0.008%
223	14.411	14.372	14.423	PV	901	15543	0.22%	0.006%
224	14.435	14.423	14.453	VV	878	12892	0.19%	0.005%
225	14.469	14.453	14.505	VV	897	19672	0.28%	0.008%
226	14.532	14.505	14.568	VV	1138	21433	0.31%	0.009%
227	14.590	14.568	14.625	VV	1906	25042	0.36%	0.010%
228	14.655	14.625	14.688	VV	764	16934	0.24%	0.007%
229	14.713	14.688	14.775	VV	1185	30156	0.43%	0.012%
230	14.792	14.775	14.803	PV	184	1949	0.03%	0.001%
231	14.836	14.803	14.859	VV	979	18568	0.27%	0.008%
232	14.877	14.859	14.932	VV	595	12864	0.19%	0.005%
233	14.942	14.932	14.947	VV	225	1141	0.02%	0.000%
234	14.967	14.947	15.014	VV	473	10234	0.15%	0.004%
235	15.041	15.014	15.066	VV	372	7262	0.10%	0.003%
236	15.086	15.066	15.101	PV	626	7766	0.11%	0.003%
237	15.130	15.101	15.168	VV	3551	57280	0.83%	0.023%
238	15.179	15.168	15.193	VV	596	7101	0.10%	0.003%
239	15.196	15.193	15.241	VV	416	4962	0.07%	0.002%
240	15.259	15.241	15.311	PV	562	11531	0.17%	0.005%
241	15.330	15.311	15.346	PV	255	1907	0.03%	0.001%
242	15.375	15.346	15.403	VV	376	7732	0.11%	0.003%
243	15.435	15.403	15.448	VV	338	4919	0.07%	0.002%
244	15.462	15.448	15.511	VV	318	6971	0.10%	0.003%
245	15.559	15.511	15.589	PV	475	12023	0.17%	0.005%
246	15.608	15.589	15.621	VV	408	5476	0.08%	0.002%

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247	15.648	15.621	15.760	VV	3693	77675	1.12%	0.031%
248	15.779	15.760	15.808	VV	653	8714	0.13%	0.004%
249	15.867	15.808	15.888	PV	465	10258	0.15%	0.004%
250	15.902	15.888	15.925	VV	453	6127	0.09%	0.002%
251	15.962	15.925	16.002	VV	1100	27683	0.40%	0.011%
252	16.033	16.002	16.068	VV	443	8761	0.13%	0.004%
253	16.116	16.068	16.123	PV	771	13587	0.20%	0.006%
254	16.149	16.123	16.221	VV	4678	82917	1.19%	0.034%
255	16.228	16.221	16.245	VV	192	1726	0.02%	0.001%
256	16.253	16.245	16.261	VV	140	594	0.01%	0.000%
257	16.282	16.261	16.304	PV	255	3656	0.05%	0.001%
258	16.346	16.304	16.369	VV	902	18978	0.27%	0.008%
259	16.404	16.369	16.413	VV	281	5438	0.08%	0.002%
260	16.458	16.413	16.496	VV	751	25135	0.36%	0.010%
261	16.505	16.496	16.561	VV	515	10933	0.16%	0.004%
262	16.631	16.561	16.661	VV	4245	71764	1.03%	0.029%
263	16.671	16.661	16.697	VV	431	5623	0.08%	0.002%
264	16.718	16.697	16.733	PV	370	5078	0.07%	0.002%
265	16.758	16.733	16.770	VV	303	4944	0.07%	0.002%
266	16.797	16.770	16.807	VV	622	9140	0.13%	0.004%
267	16.842	16.807	16.878	VV	679	21437	0.31%	0.009%
268	16.891	16.878	16.918	VV	434	7323	0.11%	0.003%
269	16.958	16.918	16.971	VV	521	11502	0.17%	0.005%
270	16.975	16.971	16.997	VV	500	3484	0.05%	0.001%
271	17.097	16.997	17.168	PV	5129	105050	1.51%	0.043%
272	17.203	17.168	17.239	VV	566	14129	0.20%	0.006%
273	17.268	17.239	17.281	PV	533	6960	0.10%	0.003%
274	17.335	17.281	17.369	VV	2308	45076	0.65%	0.018%
275	17.424	17.369	17.440	VV	452	10657	0.15%	0.004%
276	17.506	17.440	17.524	VV	1832	43323	0.62%	0.018%
277	17.547	17.524	17.596	VV	4405	73589	1.06%	0.030%
278	17.656	17.596	17.687	VV	1493	41270	0.59%	0.017%
279	17.745	17.687	17.794	VV	645	18471	0.27%	0.007%
280	17.830	17.794	17.850	PV	728	11035	0.16%	0.004%
281	17.878	17.850	17.898	VV	927	15479	0.22%	0.006%
282	17.925	17.898	17.936	VV	966	15842	0.23%	0.006%
283	17.983	17.936	18.009	VV	5818	103396	1.49%	0.042%
284	18.025	18.009	18.067	VV	989	21604	0.31%	0.009%
285	18.122	18.067	18.200	VV	5014	143046	2.06%	0.058%
286	18.223	18.200	18.237	VV	710	12267	0.18%	0.005%
287	18.271	18.237	18.287	VV	910	20142	0.29%	0.008%
288	18.325	18.287	18.345	VV	1584	34296	0.49%	0.014%
289	18.357	18.345	18.378	VV	824	14916	0.21%	0.006%
290	18.405	18.378	18.431	VV	5790	84788	1.22%	0.034%
291	18.488	18.431	18.540	VV	6339	128509	1.85%	0.052%
292	18.556	18.540	18.584	VV	633	9852	0.14%	0.004%
293	18.648	18.584	18.662	PV	846	19882	0.29%	0.008%
294	18.671	18.662	18.694	VV	730	11277	0.16%	0.005%
295	18.710	18.694	18.737	VV	410	6371	0.09%	0.003%
296	18.815	18.737	18.884	PV	7320	128047	1.84%	0.052%
297	18.911	18.884	18.934	PV	2018	28637	0.41%	0.012%
298	18.959	18.934	18.994	VV	1511	25354	0.37%	0.010%
299	19.004	18.994	19.027	VV	401	5028	0.07%	0.002%

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300	19.106	19.027	19.138	VV	533	23712	0.34%	0.010%
301	19.211	19.138	19.269	VV	6296	115437	1.66%	0.047%
302	19.310	19.269	19.337	PV	947	13450	0.19%	0.005%
303	19.458	19.337	19.476	VV	562	29392	0.42%	0.012%
304	19.499	19.476	19.527	VV	530	10464	0.15%	0.004%
305	19.598	19.527	19.678	VV	8815	170998	2.46%	0.069%
306	19.714	19.678	19.746	VV	998	20476	0.29%	0.008%
307	19.840	19.746	19.858	VV	905	32735	0.47%	0.013%
308	19.893	19.858	19.906	VV	1213	29291	0.42%	0.012%
309	19.911	19.906	19.920	VV	987	7757	0.11%	0.003%
310	19.973	19.920	20.003	VV	5606	115457	1.66%	0.047%
311	20.017	20.003	20.054	VV	1564	34911	0.50%	0.014%
312	20.234	20.054	20.265	VV	4185	280586	4.04%	0.114%
313	20.274	20.265	20.286	VV	2996	36662	0.53%	0.015%
314	20.339	20.286	20.369	VV	12926	302458	4.36%	0.123%
315	20.400	20.369	20.439	VV	4186	157862	2.27%	0.064%
316	20.627	20.439	20.636	VV	4814	490961	7.07%	0.199%
317	20.694	20.636	20.722	VV	8560	306793	4.42%	0.124%
318	20.863	20.722	20.890	VV	6651	612830	8.83%	0.248%
319	20.922	20.890	20.946	VV	6793	217646	3.14%	0.088%
320	21.060	20.946	21.130	VV	19169	880495	12.68%	0.357%
321	21.142	21.130	21.154	VV	5381	77741	1.12%	0.032%
322	21.277	21.154	21.311	VV	5340	489903	7.06%	0.199%
323	21.325	21.311	21.341	VV	4979	87328	1.26%	0.035%
324	21.373	21.341	21.406	VV	4767	180933	2.61%	0.073%
325	21.474	21.406	21.548	VV	5659	379207	5.46%	0.154%
326	21.578	21.548	21.609	VV	3937	138483	1.99%	0.056%
327	21.620	21.609	21.640	VV	3427	63743	0.92%	0.026%
328	21.648	21.640	21.660	VV	3196	37016	0.53%	0.015%
329	21.748	21.660	21.757	VV	2930	173785	2.50%	0.070%
330	21.793	21.757	21.800	VV	2670	68233	0.98%	0.028%
331	21.828	21.800	21.872	VV	2532	102586	1.48%	0.042%
332	21.940	21.872	22.056	VV	17499	565385	8.14%	0.229%
333	22.071	22.056	22.088	VV	995	18114	0.26%	0.007%
334	22.120	22.088	22.131	VV	678	18060	0.26%	0.007%
335	22.180	22.131	22.201	VBA	358	-14549	-0.21%	-0.006%

Sum of corrected areas: 246684980

Aliphatic EPH 110724.M Sat Nov 16 11:24:04 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-9		SDG No.:	P4839	
Lab Sample ID:	P4839-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	85.1	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015054.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	20.5	E	0.35	0.78	mg/kg
Aromatic C12-C16	Aromatic C12-C16	52.5	E	0.40	1.17	mg/kg
Aromatic C16-C21	Aromatic C16-C21	48.1	E	1.13	1.95	mg/kg
Aromatic C21-C36	Aromatic C21-C36	4.86		2.35	3.13	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.4		40 - 140	115%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.5		40 - 140	115%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.6		40 - 140	55%	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:	P4839-01	Acq On:	15 Nov 2024 11:53
Client Sample ID:	EX-9-TPH-9	Operator:	YP\AJ
Data file:	FF015054.D	Misc:	
Instrument:	FID_F	ALS Vial:	61
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	35872474	262.253	200	ug/ml
Aromatic C12-C16	6.372	9.062	90635703	671.265	300	ug/ml
Aromatic C16-C21	9.063	13.374	78647397	614.944	500	ug/ml
Aromatic C21-C36	13.375	18.817	7570569	62.119	800	ug/ml
Aromatic EPH	4.507	18.817	212726143	1610		ug/ml
ortho-Terphenyl (SURR)	11.926	11.926	3695970	27.55		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7003408	57.35		ug/ml
2-Flurobiphenyl (SURR)	8.868	8.868	4694217	57.5		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015054.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 11:53
Operator : YP\AJ
Sample : P4839-01
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-9

Integration File: autoint1.e
Quant Time: Nov 15 13:49:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7003408	57.350 ug/ml
Spiked Amount 50.000		Recovery = 114.70%	
6) S 2-Flurobiphenyl (SURR)	8.868	4694217	57.498 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 115.00%	
11) S ortho-Terphenyl (SURR)	11.926	3695970	27.552 ug/ml
Spiked Amount 50.000		Recovery = 55.10%	
Target Compounds			

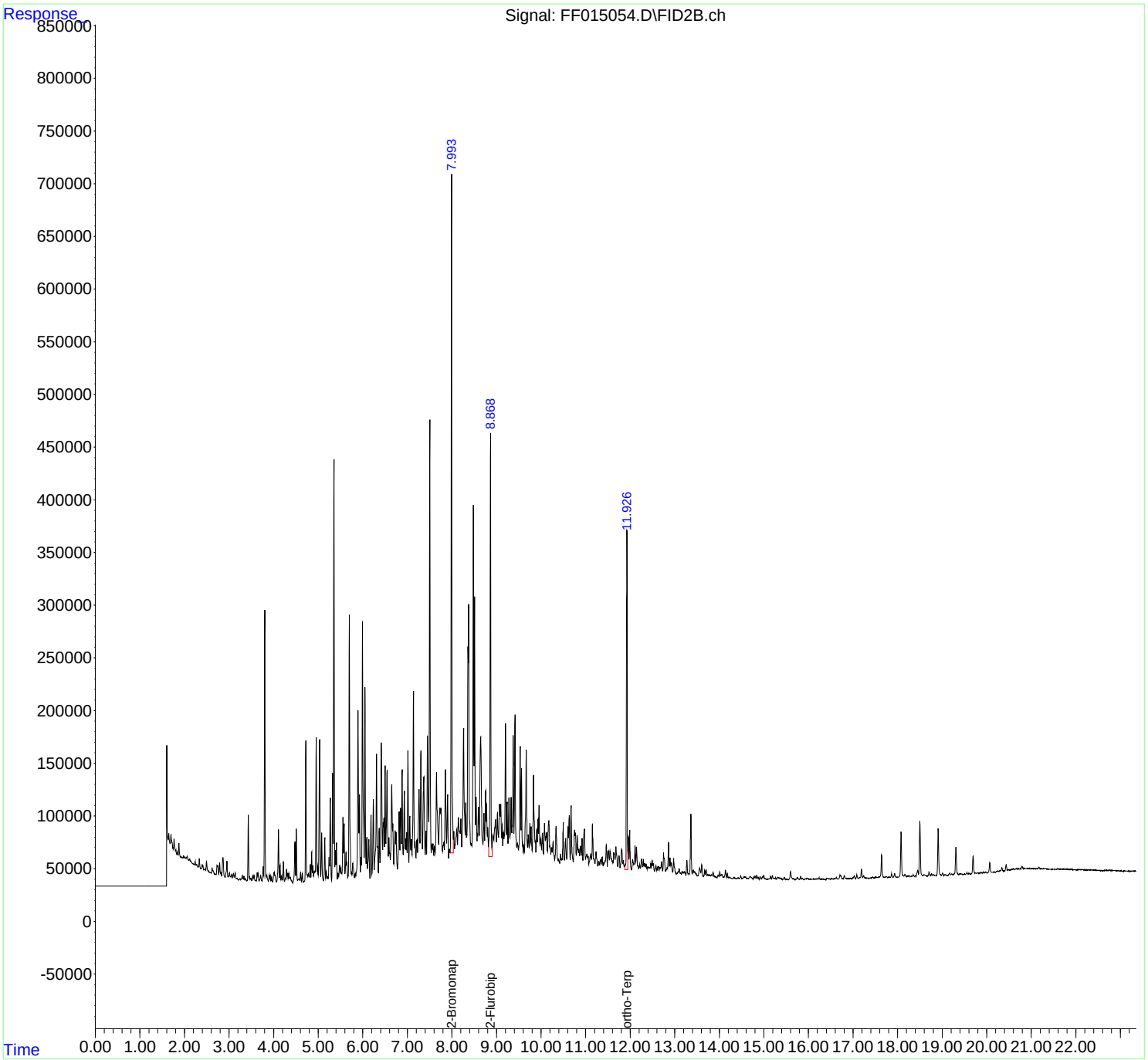
(f)=RT Delta > 1/2 Window (m)=manual int.

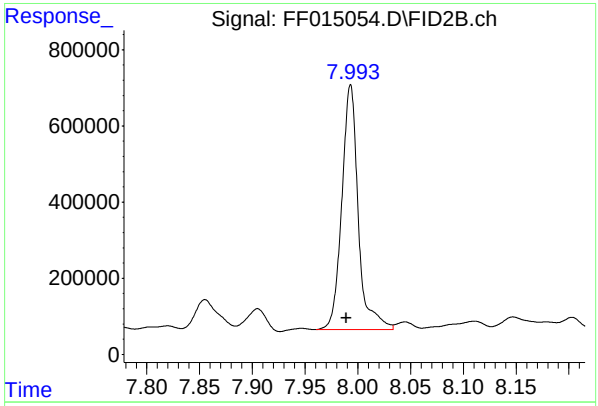
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015054.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 11:53
Operator : YP\AJ
Sample : P4839-01
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-9

Integration File: autoint1.e
Quant Time: Nov 15 13:49:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

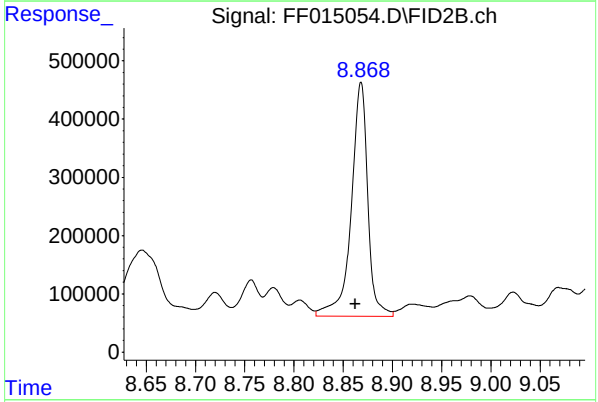




#4 2-Bromonaphthalene (SURR)

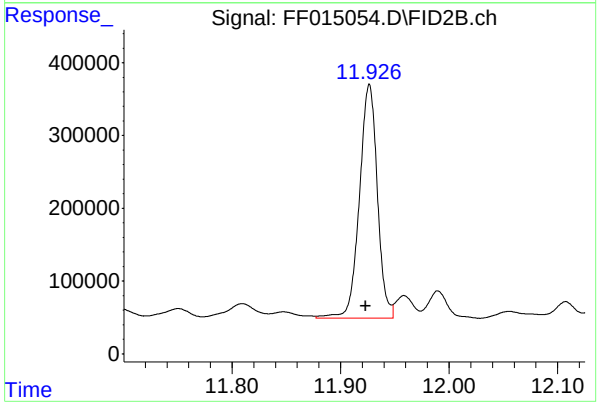
R.T.: 7.993 min
Delta R.T.: 0.004 min
Response: 7003408
Conc: 57.35 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-9



#6 2-Flurobiphenyl (SURR)

R.T.: 8.868 min
Delta R.T.: 0.006 min
Response: 4694217
Conc: 57.50 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.926 min
Delta R.T.: 0.003 min
Response: 3695970
Conc: 27.55 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015054.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 11:53
Sample : P4839-01
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.478	4.400	4.493	BV	37298	398840	4.87%	0.176%
2	4.509	4.493	4.537	VV	49758	512985	6.27%	0.226%
3	4.569	4.537	4.590	VV	2453	55821	0.68%	0.025%
4	4.607	4.590	4.625	VV	9307	91091	1.11%	0.040%
5	4.644	4.625	4.666	VV	8045	86027	1.05%	0.038%
6	4.679	4.666	4.687	PV	567	4217	0.05%	0.002%
7	4.723	4.687	4.747	VV	134194	1360347	16.63%	0.599%
8	4.755	4.747	4.769	VV	6765	78175	0.96%	0.034%
9	4.783	4.769	4.804	VV	8088	130333	1.59%	0.057%
10	4.824	4.804	4.838	VV	16607	195307	2.39%	0.086%
11	4.854	4.838	4.868	VV	28211	297207	3.63%	0.131%
12	4.878	4.868	4.896	VV	15688	186011	2.27%	0.082%
13	4.914	4.896	4.924	VV	10203	137910	1.69%	0.061%
14	4.956	4.924	4.976	VV	137283	1502591	18.36%	0.662%
15	4.986	4.976	5.001	VV	15470	175587	2.15%	0.077%
16	5.033	5.001	5.057	VV	135421	1884699	23.03%	0.830%
17	5.079	5.057	5.117	VV	46660	571414	6.98%	0.252%
18	5.148	5.117	5.168	VV	42053	467597	5.71%	0.206%
19	5.183	5.168	5.203	VV	10073	137954	1.69%	0.061%
20	5.213	5.203	5.225	VV	4867	53038	0.65%	0.023%
21	5.245	5.225	5.255	VV	23239	248968	3.04%	0.110%
22	5.271	5.255	5.301	VV	79652	933221	11.41%	0.411%
23	5.325	5.301	5.337	VV	102967	1027631	12.56%	0.453%
24	5.354	5.337	5.375	VV	400101	3974692	48.58%	1.750%
25	5.387	5.375	5.399	VV	30069	321773	3.93%	0.142%
26	5.411	5.399	5.429	VV	37137	379289	4.64%	0.167%
27	5.446	5.429	5.461	VV	8037	115272	1.41%	0.051%
28	5.483	5.461	5.498	VV	15522	247804	3.03%	0.109%
29	5.508	5.498	5.522	VV	13195	153390	1.87%	0.068%
30	5.528	5.522	5.533	VV	7772	48796	0.60%	0.021%
31	5.557	5.533	5.570	VV	61219	737190	9.01%	0.325%
32	5.582	5.570	5.601	VV	55204	613881	7.50%	0.270%
33	5.625	5.601	5.637	VV	28457	385595	4.71%	0.170%
34	5.645	5.637	5.663	VV	18977	196127	2.40%	0.086%
35	5.699	5.663	5.744	VV	253383	3121350	38.15%	1.374%
36	5.752	5.744	5.760	VV	8604	77542	0.95%	0.034%

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37	5.776	5.760	5.814	VV	17660	356283	4.35%	0.157%
38	5.833	5.814	5.845	VV	7646	110778	1.35%	0.049%
39	5.894	5.845	5.916	VV	162165	2335436	28.54%	1.028%
40	5.928	5.916	5.947	VV	82669	882891	10.79%	0.389%
41	5.964	5.947	5.975	VV	23182	294785	3.60%	0.130%
42	5.994	5.975	6.034	VV	246998	3484288	42.58%	1.534%
43	6.051	6.034	6.077	VV	183846	1970196	24.08%	0.868%
44	6.092	6.077	6.107	VV	42293	481978	5.89%	0.212%
45	6.136	6.107	6.162	VV	39897	693790	8.48%	0.306%
46	6.186	6.162	6.206	VV	63041	720439	8.80%	0.317%
47	6.239	6.206	6.258	VV	78326	1117696	13.66%	0.492%
48	6.310	6.258	6.350	VV	121119	2276294	27.82%	1.002%
49	6.369	6.350	6.387	VV	50822	636788	7.78%	0.280%
50	6.416	6.387	6.447	VV	131725	2503310	30.59%	1.102%
51	6.461	6.447	6.467	VV	55824	543586	6.64%	0.239%
52	6.475	6.467	6.488	VV	60176	641654	7.84%	0.283%
53	6.503	6.488	6.518	VV	110149	1262485	15.43%	0.556%
54	6.545	6.518	6.575	VV	105894	1967508	24.05%	0.866%
55	6.588	6.575	6.619	VV	41818	791925	9.68%	0.349%
56	6.651	6.619	6.669	VV	92192	1608720	19.66%	0.708%
57	6.676	6.669	6.695	VV	54756	609356	7.45%	0.268%
58	6.726	6.695	6.737	VV	48531	881221	10.77%	0.388%
59	6.749	6.737	6.780	VV	46938	760026	9.29%	0.335%
60	6.817	6.780	6.833	VV	66355	1218105	14.89%	0.536%
61	6.849	6.833	6.866	VV	69703	1068158	13.05%	0.470%
62	6.884	6.866	6.907	VV	106136	1498150	18.31%	0.660%
63	6.933	6.907	6.950	VV	85641	1309567	16.00%	0.577%
64	6.959	6.950	6.971	VV	40805	451019	5.51%	0.199%
65	6.985	6.971	6.998	VV	46366	613384	7.50%	0.270%
66	7.015	6.998	7.035	VV	124115	1453053	17.76%	0.640%
67	7.056	7.035	7.080	VV	62061	1080490	13.21%	0.476%
68	7.093	7.080	7.105	VV	39964	495464	6.06%	0.218%
69	7.139	7.105	7.167	VV	180650	2823190	34.50%	1.243%
70	7.176	7.167	7.194	VV	37845	502469	6.14%	0.221%
71	7.216	7.194	7.232	VV	39610	728375	8.90%	0.321%
72	7.264	7.232	7.285	VV	87324	1844750	22.55%	0.812%
73	7.305	7.285	7.340	VV	123871	2282568	27.90%	1.005%
74	7.370	7.340	7.402	VV	99297	2297922	28.08%	1.012%
75	7.418	7.402	7.432	VV	47974	655512	8.01%	0.289%
76	7.453	7.432	7.481	VV	138269	2390576	29.22%	1.053%
77	7.505	7.481	7.537	VV	437232	5453648	66.65%	2.401%
78	7.554	7.537	7.566	VV	35510	560954	6.86%	0.247%
79	7.577	7.566	7.592	VV	35853	488502	5.97%	0.215%
80	7.609	7.592	7.624	VV	33681	568764	6.95%	0.250%
81	7.656	7.624	7.704	VV	103670	2760261	33.73%	1.215%
82	7.732	7.704	7.743	VV	69640	1326573	16.21%	0.584%
83	7.758	7.743	7.789	VV	69324	1458225	17.82%	0.642%
84	7.820	7.789	7.833	VV	37032	878452	10.74%	0.387%
85	7.855	7.833	7.884	VV	105956	2007415	24.53%	0.884%
86	7.905	7.884	7.927	VV	82217	1337339	16.34%	0.589%
87	7.947	7.927	7.960	VV	30474	558092	6.82%	0.246%
88	7.993	7.960	8.033	VV	673198	8182259	100.00%	3.603%
89	8.045	8.033	8.061	VV	47393	680563	8.32%	0.300%

90	8.111	8.061	8.127	VV	49395	1576337	19.27%	0.694%
91	8.147	8.127	8.175	VV	60338	1446717	17.68%	0.637%
92	8.179	8.175	8.189	VV	47649	369863	4.52%	0.163%
93	8.203	8.189	8.221	VV	59423	927355	11.33%	0.408%
94	8.263	8.221	8.299	VV	144391	3439755	42.04%	1.515%
95	8.313	8.299	8.328	VV	74394	992949	12.14%	0.437%
96	8.362	8.328	8.367	VV	222435	2594160	31.70%	1.142%
97	8.377	8.367	8.450	VV	262879	4286215	52.38%	1.887%
98	8.484	8.450	8.498	VV	356689	4716441	57.64%	2.077%
99	8.511	8.498	8.529	VV	270374	3006661	36.75%	1.324%
100	8.544	8.529	8.565	VV	79879	1327008	16.22%	0.584%
101	8.574	8.565	8.579	VV	43915	352336	4.31%	0.155%
102	8.598	8.579	8.616	VV	70215	1246691	15.24%	0.549%
103	8.646	8.616	8.698	VV	136774	3927317	48.00%	1.729%
104	8.720	8.698	8.737	VV	64196	1118714	13.67%	0.493%
105	8.757	8.737	8.769	VV	86077	1209090	14.78%	0.532%
106	8.779	8.769	8.795	VV	72633	964689	11.79%	0.425%
107	8.806	8.795	8.822	VV	51119	694697	8.49%	0.306%
108	8.868	8.822	8.900	VV	425615	5789846	70.76%	2.550%
109	8.920	8.900	8.942	VV	43849	982583	12.01%	0.433%
110	8.979	8.942	8.999	VV	58269	1639082	20.03%	0.722%
111	9.023	8.999	9.048	VV	64672	1455712	17.79%	0.641%
112	9.069	9.048	9.089	VV	72737	1500359	18.34%	0.661%
113	9.099	9.089	9.116	VV	72800	997015	12.19%	0.439%
114	9.128	9.116	9.143	VV	53802	721676	8.82%	0.318%
115	9.156	9.143	9.171	VV	46028	686114	8.39%	0.302%
116	9.205	9.171	9.226	VV	149603	2562288	31.32%	1.128%
117	9.240	9.226	9.261	VV	75021	1199001	14.65%	0.528%
118	9.282	9.261	9.302	VV	79107	1385983	16.94%	0.610%
119	9.331	9.302	9.345	VV	79636	1440960	17.61%	0.635%
120	9.354	9.345	9.358	VV	53294	401085	4.90%	0.177%
121	9.377	9.358	9.393	VV	137961	1813542	22.16%	0.799%
122	9.418	9.393	9.459	VV	157878	2807273	34.31%	1.236%
123	9.474	9.459	9.494	VV	35704	704568	8.61%	0.310%
124	9.534	9.494	9.550	VV	127796	2141772	26.18%	0.943%
125	9.564	9.550	9.601	VV	106567	1711290	20.91%	0.754%
126	9.613	9.601	9.628	VV	34489	503457	6.15%	0.222%
127	9.670	9.628	9.698	VV	124566	2600031	31.78%	1.145%
128	9.715	9.698	9.733	VV	43988	768614	9.39%	0.338%
129	9.752	9.733	9.766	VV	54787	866018	10.58%	0.381%
130	9.779	9.766	9.803	VV	51477	857661	10.48%	0.378%
131	9.832	9.803	9.887	VV	100413	2645802	32.34%	1.165%
132	9.905	9.887	9.918	VV	48849	735240	8.99%	0.324%
133	9.933	9.918	9.944	VV	58629	791890	9.68%	0.349%
134	9.958	9.944	9.978	VV	71831	1073265	13.12%	0.473%
135	9.996	9.978	10.017	VV	40084	821497	10.04%	0.362%
136	10.032	10.017	10.055	VV	44820	812993	9.94%	0.358%
137	10.077	10.055	10.100	VV	54396	1146873	14.02%	0.505%
138	10.126	10.100	10.145	VV	45755	1057879	12.93%	0.466%
139	10.175	10.145	10.221	VV	57177	1815266	22.19%	0.799%
140	10.237	10.221	10.252	VV	31266	544684	6.66%	0.240%
141	10.273	10.252	10.308	VV	38027	955687	11.68%	0.421%

142	10.338	10.308	10.386	VV	51474	1428710	17.46%	0.629%
143	10.397	10.386	10.419	VV	20481	371497	4.54%	0.164%
144	10.440	10.419	10.455	VV	25186	468599	5.73%	0.206%
145	10.463	10.455	10.474	VV	21046	223973	2.74%	0.099%
146	10.496	10.474	10.526	VV	55311	1000576	12.23%	0.441%
147	10.551	10.526	10.578	VV	40061	893680	10.92%	0.394%
148	10.606	10.578	10.618	VV	51238	861282	10.53%	0.379%
149	10.632	10.618	10.657	VV	61835	1005043	12.28%	0.443%
150	10.676	10.657	10.724	VV	71243	1400170	17.11%	0.617%
151	10.751	10.724	10.761	VV	48332	761579	9.31%	0.335%
152	10.769	10.761	10.792	VV	45129	677368	8.28%	0.298%
153	10.814	10.792	10.840	VV	43014	936435	11.44%	0.412%
154	10.851	10.840	10.865	VV	29548	408570	4.99%	0.180%
155	10.885	10.865	10.903	VV	32831	649329	7.94%	0.286%
156	10.921	10.903	10.939	VV	40120	666811	8.15%	0.294%
157	10.973	10.939	10.999	VV	48940	1244602	15.21%	0.548%
158	11.032	10.999	11.046	VV	25477	661464	8.08%	0.291%
159	11.055	11.046	11.071	VV	23227	311415	3.81%	0.137%
160	11.117	11.071	11.132	VV	25436	763977	9.34%	0.336%
161	11.155	11.132	11.210	VV	54110	1270944	15.53%	0.560%
162	11.233	11.210	11.272	VV	27450	753061	9.20%	0.332%
163	11.295	11.272	11.313	VV	18194	398679	4.87%	0.176%
164	11.336	11.313	11.354	VV	20316	433433	5.30%	0.191%
165	11.373	11.354	11.392	VV	22231	420391	5.14%	0.185%
166	11.432	11.392	11.439	VV	18368	467013	5.71%	0.206%
167	11.465	11.439	11.487	VV	34023	690938	8.44%	0.304%
168	11.513	11.487	11.534	VV	28268	665939	8.14%	0.293%
169	11.550	11.534	11.596	VV	28003	820822	10.03%	0.361%
170	11.602	11.596	11.614	VV	18501	198662	2.43%	0.087%
171	11.633	11.614	11.662	VV	26762	663046	8.10%	0.292%
172	11.680	11.662	11.720	VV	32166	817063	9.99%	0.360%
173	11.750	11.720	11.773	VV	23596	554614	6.78%	0.244%
174	11.809	11.773	11.834	VV	30152	747239	9.13%	0.329%
175	11.847	11.834	11.877	VV	18988	412564	5.04%	0.182%
176	11.927	11.877	11.948	VV	332046	4124511	50.41%	1.816%
177	11.959	11.948	11.974	VV	41335	513213	6.27%	0.226%
178	11.990	11.974	12.028	VV	47649	784635	9.59%	0.346%
179	12.056	12.028	12.085	VV	19606	536987	6.56%	0.236%
180	12.108	12.085	12.124	VV	32938	531044	6.49%	0.234%
181	12.140	12.124	12.192	VV	31737	757339	9.26%	0.333%
182	12.211	12.192	12.228	VV	15383	292510	3.57%	0.129%
183	12.255	12.228	12.277	VV	20327	474981	5.81%	0.209%
184	12.296	12.277	12.312	VV	19907	342940	4.19%	0.151%
185	12.327	12.312	12.345	VV	16055	288666	3.53%	0.127%
186	12.360	12.345	12.377	VV	15419	254545	3.11%	0.112%
187	12.399	12.377	12.412	VV	13067	249631	3.05%	0.110%
188	12.428	12.412	12.442	VV	12516	219703	2.69%	0.097%
189	12.460	12.442	12.475	VV	16214	265171	3.24%	0.117%
190	12.493	12.475	12.509	VV	19022	326808	3.99%	0.144%
191	12.519	12.509	12.545	VV	15903	276355	3.38%	0.122%
192	12.577	12.545	12.595	VV	14267	343218	4.19%	0.151%
193	12.608	12.595	12.621	VV	12299	170015	2.08%	0.075%
194	12.638	12.621	12.652	VV	13219	216159	2.64%	0.095%

195	12.657	12.652	12.670	VV	12318	126708	1.55%	0.056%
196	12.683	12.670	12.686	VV	12307	117800	1.44%	0.052%
197	12.704	12.686	12.728	VV	17243	332151	4.06%	0.146%
198	12.749	12.728	12.791	VV	26330	638893	7.81%	0.281%
199	12.827	12.791	12.837	VV	12381	285461	3.49%	0.126%
200	12.859	12.837	12.879	VV	35903	569638	6.96%	0.251%
201	12.895	12.879	12.910	VV	21382	334877	4.09%	0.147%
202	12.922	12.910	12.953	VV	16956	314559	3.84%	0.139%
203	12.974	12.953	13.022	VV	20747	497903	6.09%	0.219%
204	13.032	13.022	13.050	VV	6836	111100	1.36%	0.049%
205	13.076	13.050	13.080	VV	7912	126921	1.55%	0.056%
206	13.101	13.080	13.121	VV	10871	209960	2.57%	0.092%
207	13.132	13.121	13.147	VV	6985	101708	1.24%	0.045%
208	13.167	13.147	13.179	VV	8312	140828	1.72%	0.062%
209	13.193	13.179	13.205	VV	7428	111160	1.36%	0.049%
210	13.223	13.205	13.249	VV	7994	179650	2.20%	0.079%
211	13.271	13.249	13.319	VV	19048	392788	4.80%	0.173%
212	13.361	13.319	13.390	VV	63129	967590	11.83%	0.426%
213	13.412	13.390	13.433	VV	9689	205644	2.51%	0.091%
214	13.446	13.433	13.469	VV	8205	156287	1.91%	0.069%
215	13.478	13.469	13.504	VV	6534	113134	1.38%	0.050%
216	13.556	13.504	13.585	VV	11296	361753	4.42%	0.159%
217	13.605	13.585	13.648	VV	14834	301290	3.68%	0.133%
218	13.670	13.648	13.684	VV	9361	135742	1.66%	0.060%
219	13.702	13.684	13.724	VV	9896	172164	2.10%	0.076%
220	13.744	13.724	13.762	VV	5291	105809	1.29%	0.047%
221	13.778	13.762	13.802	VV	5354	112200	1.37%	0.049%
222	13.823	13.802	13.839	VV	5368	103549	1.27%	0.046%
223	13.859	13.839	13.890	VV	7700	159175	1.95%	0.070%
224	13.906	13.890	13.947	VV	3726	105170	1.29%	0.046%
225	13.972	13.947	13.992	VV	4875	98052	1.20%	0.043%
226	14.009	13.992	14.028	VV	7856	119559	1.46%	0.053%
227	14.056	14.028	14.081	VV	5472	140994	1.72%	0.062%
228	14.092	14.081	14.105	VV	3090	41538	0.51%	0.018%
229	14.137	14.105	14.160	VV	9084	174445	2.13%	0.077%
230	14.179	14.160	14.200	VV	6207	97851	1.20%	0.043%
231	14.216	14.200	14.264	VV	2637	88389	1.08%	0.039%
232	14.269	14.264	14.294	VV	1810	25957	0.32%	0.011%
233	14.319	14.294	14.361	VV	2623	78279	0.96%	0.034%
234	14.372	14.361	14.390	VV	1613	25144	0.31%	0.011%
235	14.427	14.390	14.437	VV	2018	45805	0.56%	0.020%
236	14.448	14.437	14.457	VV	1585	17348	0.21%	0.008%
237	14.479	14.457	14.503	VV	4078	68313	0.83%	0.030%
238	14.554	14.503	14.567	VV	2920	78039	0.95%	0.034%
239	14.579	14.567	14.587	VV	2746	32456	0.40%	0.014%
240	14.592	14.587	14.620	VV	2644	38983	0.48%	0.017%
241	14.630	14.620	14.651	VV	1604	25968	0.32%	0.011%
242	14.697	14.651	14.715	VV	3338	94199	1.15%	0.041%
243	14.724	14.715	14.753	VV	2293	40177	0.49%	0.018%
244	14.777	14.753	14.783	VV	2286	31694	0.39%	0.014%
245	14.802	14.783	14.820	VV	3746	60384	0.74%	0.027%
246	14.839	14.820	14.857	VV	4365	60282	0.74%	0.027%

rteres

247	14.870	14.857	14.894	VV	2277	36560	0.45%	0.016%
248	14.913	14.894	14.939	VV	2993	51599	0.63%	0.023%
249	14.962	14.939	14.977	VV	2512	43807	0.54%	0.019%
250	14.995	14.977	15.023	VV	4344	72835	0.89%	0.032%
251	15.034	15.023	15.052	VV	1195	15888	0.19%	0.007%
252	15.065	15.052	15.084	VV	690	11221	0.14%	0.005%
253	15.107	15.084	15.114	VV	921	14127	0.17%	0.006%
254	15.115	15.114	15.120	VV	857	3270	0.04%	0.001%
255	15.149	15.120	15.170	VV	3488	54086	0.66%	0.024%
256	15.189	15.170	15.206	VV	4211	57530	0.70%	0.025%
257	15.218	15.206	15.246	VV	1850	34707	0.42%	0.015%
258	15.262	15.246	15.281	VV	1732	24839	0.30%	0.011%
259	15.313	15.281	15.336	VV	2285	52993	0.65%	0.023%
260	15.353	15.336	15.373	VV	1861	33230	0.41%	0.015%
261	15.386	15.373	15.420	VV	1225	24389	0.30%	0.011%
262	15.458	15.420	15.496	VV	2412	44850	0.55%	0.020%
263	15.501	15.496	15.549	VV	442	9622	0.12%	0.004%
264	15.596	15.549	15.651	VV	7707	159166	1.95%	0.070%
265	15.662	15.651	15.688	VV	1167	15475	0.19%	0.007%
266	15.695	15.688	15.715	VV	301	3376	0.04%	0.001%
267	15.748	15.715	15.800	VV	1912	48888	0.60%	0.022%
268	15.823	15.800	15.843	VV	3057	39453	0.48%	0.017%
269	15.861	15.843	15.890	VV	1529	22364	0.27%	0.010%
270	15.909	15.890	15.915	VV	347	3177	0.04%	0.001%
271	15.943	15.915	15.950	VV	896	13363	0.16%	0.006%
272	15.989	15.950	16.027	VV	1458	40072	0.49%	0.018%
273	16.060	16.027	16.082	VV	676	13160	0.16%	0.006%
274	16.116	16.082	16.138	VV	611	14915	0.18%	0.007%
275	16.156	16.138	16.171	VV	587	8657	0.11%	0.004%
276	16.194	16.171	16.217	VV	839	15814	0.19%	0.007%
277	16.239	16.217	16.277	VV	1637	30068	0.37%	0.013%
278	16.297	16.277	16.314	VV	597	9274	0.11%	0.004%
279	16.329	16.314	16.365	VV	587	9449	0.12%	0.004%
280	16.423	16.388	16.447	PV	1284	25639	0.31%	0.011%
281	16.458	16.447	16.477	VV	870	10612	0.13%	0.005%
282	16.527	16.477	16.552	VV	932	24848	0.30%	0.011%
283	16.570	16.552	16.592	VV	663	11524	0.14%	0.005%
284	16.624	16.592	16.654	VV	1743	34233	0.42%	0.015%
285	16.708	16.654	16.779	PV	3809	108611	1.33%	0.048%
286	16.804	16.779	16.826	VV	3468	49409	0.60%	0.022%
287	16.845	16.826	16.872	VV	903	16973	0.21%	0.007%
288	16.879	16.872	16.887	VV	416	3342	0.04%	0.001%
289	16.901	16.887	16.920	VV	392	5587	0.07%	0.002%
290	16.943	16.920	16.952	VV	464	6833	0.08%	0.003%
291	16.956	16.952	16.972	VV	399	3002	0.04%	0.001%
292	17.027	16.972	17.052	VV	2558	48309	0.59%	0.021%
293	17.085	17.052	17.121	VV	3583	53234	0.65%	0.023%
294	17.153	17.121	17.162	VV	869	15215	0.19%	0.007%
295	17.188	17.162	17.215	VV	8861	130402	1.59%	0.057%
296	17.239	17.215	17.269	VV	2766	44686	0.55%	0.020%
297	17.272	17.269	17.307	VV	519	8678	0.11%	0.004%
298	17.317	17.307	17.361	VV	439	7808	0.10%	0.003%
299	17.399	17.371	17.412	PV	331	4570	0.06%	0.002%

rteres

300	17.440	17.412	17.483	VV	884	19719	0.24%	0.009%
301	17.520	17.483	17.532	VV	876	17777	0.22%	0.008%
302	17.536	17.532	17.549	VV	781	6252	0.08%	0.003%
303	17.583	17.549	17.596	VV	1269	21880	0.27%	0.010%
304	17.641	17.596	17.712	VV	21590	353448	4.32%	0.156%
305	17.741	17.712	17.774	VV	1020	24608	0.30%	0.011%
306	17.792	17.774	17.802	VV	458	4935	0.06%	0.002%
307	17.812	17.802	17.835	VV	576	6196	0.08%	0.003%
308	17.866	17.835	17.895	PV	3395	47486	0.58%	0.021%
309	17.934	17.895	17.962	PV	3745	57204	0.70%	0.025%
310	17.973	17.962	17.987	VV	226	1864	0.02%	0.001%
311	18.004	17.987	18.018	VV	198	1814	0.02%	0.001%
312	18.077	18.018	18.142	PV	42876	676718	8.27%	0.298%
313	18.167	18.142	18.199	VV	2593	49478	0.60%	0.022%
314	18.224	18.199	18.240	VV	823	14396	0.18%	0.006%
315	18.258	18.240	18.279	VV	1156	16707	0.20%	0.007%
316	18.308	18.279	18.324	VV	504	9210	0.11%	0.004%
317	18.353	18.324	18.379	VV	1644	26805	0.33%	0.012%
318	18.399	18.379	18.412	VV	817	9748	0.12%	0.004%
319	18.451	18.412	18.470	VV	5785	112919	1.38%	0.050%
320	18.499	18.470	18.568	VV	52308	810438	9.90%	0.357%
321	18.592	18.568	18.661	VV	1601	41110	0.50%	0.018%
322	18.669	18.661	18.680	PV	196	1410	0.02%	0.001%
323	18.706	18.680	18.734	VV	3804	51042	0.62%	0.022%
324	18.764	18.734	18.785	VV	1803	25893	0.32%	0.011%

Sum of corrected areas: 227097087

Aromatic EPH 111524.M Fri Nov 15 13:59:16 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-9		SDG No.:	P4839	
Lab Sample ID:	P4839-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	85.1	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051300.D	10	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	88.5		4.46	11.7	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	149		2.81	7.82	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	21.5		3.52	11.7	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	9.38	U	9.38	15.6	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.1	U	21.1	23.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	2.62		40 - 140	52%	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:	P4839-01DL	Acq On:	18 Nov 2024 09:21
Client Sample ID:	P4839-01DL	Operator:	YP\AJ
Data file:	FE051300.D	Misc:	
Instrument:	FID_E	ALS Vial:	6
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.758	15837225	113.192	300	ug/ml
Aliphatic C12-C16	6.759	10.191	26927863	191.473	200	ug/ml
Aliphatic C16-C21	10.192	13.551	3780907	27.444	300	ug/ml
Aliphatic C21-C28	13.552	17.208	374815	2.798	400	ug/ml
Aliphatic C28-C40	17.209	22.059	0	0	600	ug/ml
Aliphatic EPH	3.139	22.059	46920810	334.907		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	297947	2.62		ug/ml
Aliphatic C9-C28	3.139	17.208	46920810	334.907	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051300.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 09:21
Operator : YP\AJ
Sample : P4839-01DL 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 19 02:48:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.285	297947	2.624 ug/mlm
Spiked Amount 50.000		Recovery =	5.25%
Target Compounds			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051300.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 09:21
Operator : YP\AJ
Sample : P4839-01DL 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

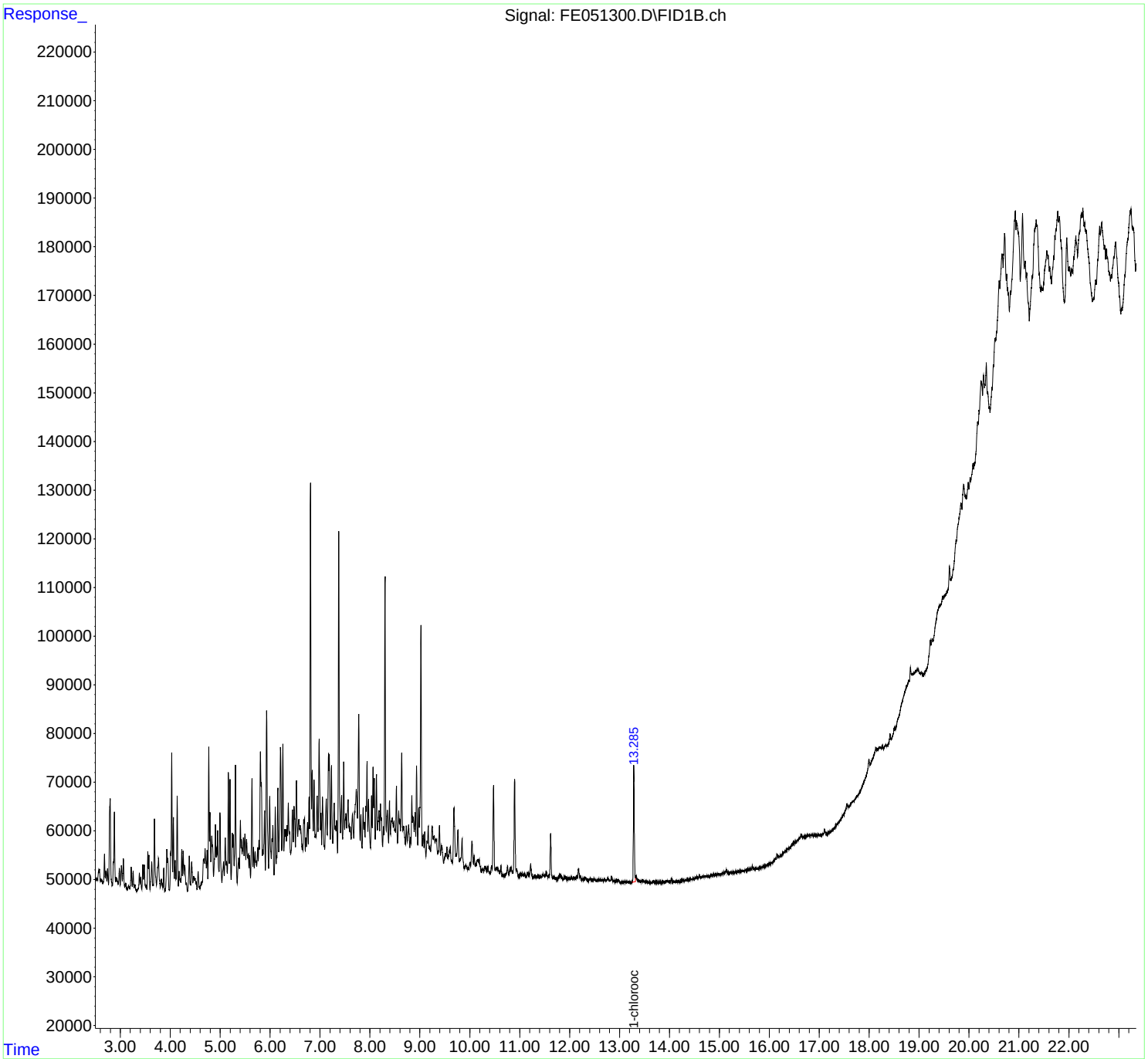
Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

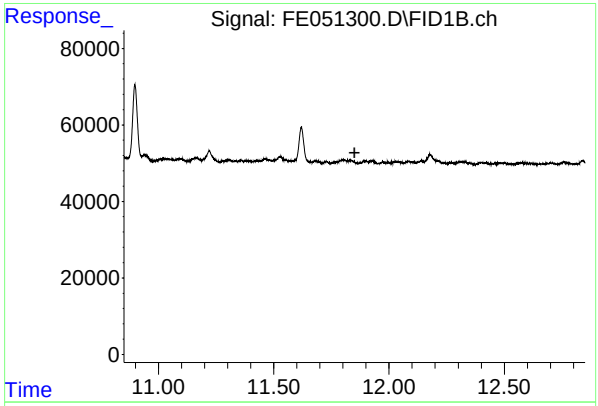
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 02:48:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





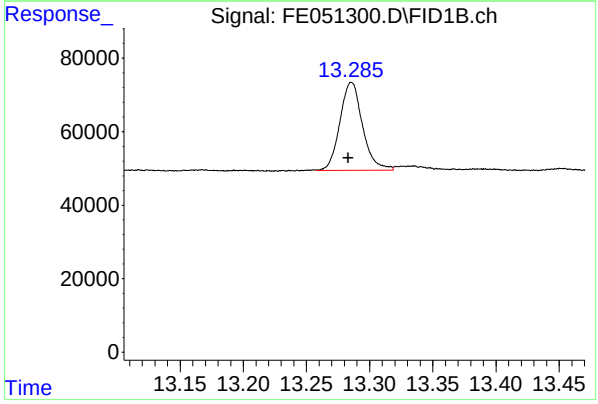
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 mi
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.285 min
Delta R.T.: 0.002 min
Response: 297947
Conc: 2.62 ug/ml m

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11182
Data File : FE051300.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 09:21
Sample : P4839-01DL 10X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.256	3.214	3.275	BV	2234	296	0.03%	0.001%
2	3.291	3.275	3.330	PV	741	8223	0.76%	0.017%
3	3.382	3.330	3.397	PV	3695	48785	4.53%	0.103%
4	3.409	3.397	3.429	VV	2771	33027	3.07%	0.070%
5	3.450	3.429	3.464	VV	5400	62797	5.83%	0.133%
6	3.480	3.464	3.508	VV	5352	75973	7.05%	0.161%
7	3.519	3.508	3.531	VV	1172	12393	1.15%	0.026%
8	3.551	3.531	3.562	VV	8101	84883	7.88%	0.180%
9	3.572	3.562	3.594	VV	7284	79323	7.36%	0.168%
10	3.629	3.594	3.664	VV	6019	109844	10.20%	0.233%
11	3.684	3.664	3.724	VV	14696	201796	18.73%	0.427%
12	3.765	3.724	3.801	VV	6673	162355	15.07%	0.344%
13	3.822	3.801	3.853	VV	2423	48468	4.50%	0.103%
14	3.870	3.853	3.895	VV	4675	48236	4.48%	0.102%
15	3.932	3.895	3.984	VV	8549	191129	17.74%	0.405%
16	4.029	3.984	4.047	VV	28388	375647	34.87%	0.795%
17	4.063	4.047	4.082	VV	15012	176425	16.38%	0.373%
18	4.098	4.082	4.117	VV	6291	88201	8.19%	0.187%
19	4.139	4.117	4.162	VV	19328	226281	21.00%	0.479%
20	4.180	4.162	4.211	VV	4027	76544	7.10%	0.162%
21	4.231	4.211	4.245	VV	8486	100151	9.30%	0.212%
22	4.260	4.245	4.275	VV	8194	103825	9.64%	0.220%
23	4.290	4.275	4.344	VV	5220	109782	10.19%	0.232%
24	4.381	4.344	4.408	PV	7235	106591	9.89%	0.226%
25	4.429	4.408	4.454	VV	5974	101290	9.40%	0.214%
26	4.471	4.454	4.487	VV	3024	49259	4.57%	0.104%
27	4.497	4.487	4.512	VV	2643	33864	3.14%	0.072%
28	4.520	4.512	4.537	VV	1960	19750	1.83%	0.042%
29	4.559	4.537	4.600	VV	3918	63731	5.92%	0.135%
30	4.619	4.600	4.629	VV	1784	22960	2.13%	0.049%
31	4.668	4.629	4.684	VV	6462	137502	12.76%	0.291%
32	4.699	4.684	4.724	VV	8631	160618	14.91%	0.340%
33	4.739	4.724	4.753	VV	8275	104374	9.69%	0.221%
34	4.772	4.753	4.814	VV	29378	504432	46.82%	1.068%
35	4.832	4.814	4.868	VV	11245	263131	24.42%	0.557%
36	4.906	4.868	4.936	VV	13557	324290	30.10%	0.687%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

37	4.950	4.936	4.978	VV	12353	189306	17.57%	0.401%
38	4.997	4.978	5.035	VV	15915	249457	23	
39	5.067	5.035	5.082	VV	5933	114765	10	
40	5.102	5.082	5.142	VV	10752	228212	21	
41	5.165	5.142	5.181	VV	24234	290535	26	
42	5.198	5.181	5.220	VV	22846	261498	24	
43	5.243	5.220	5.280	VV	11624	292465	27.15%	0.619%
44	5.307	5.280	5.341	VV	25699	384796	35.72%	0.815%
45	5.371	5.341	5.384	VV	6658	122996	11.42%	0.260%
46	5.406	5.384	5.419	VV	14397	204008	18.94%	0.432%
47	5.427	5.419	5.439	VV	10273	108773	10.10%	0.230%
48	5.466	5.439	5.479	VV	10854	215488	20.00%	0.456%
49	5.497	5.479	5.514	VV	11551	194736	18.08%	0.412%
50	5.529	5.514	5.553	VV	10343	193023	17.92%	0.409%
51	5.563	5.553	5.578	VV	7459	96401	8.95%	0.204%
52	5.591	5.578	5.608	VV	7037	95932	8.90%	0.203%
53	5.637	5.608	5.656	VV	22816	316409	29.37%	0.670%
54	5.669	5.656	5.686	VV	8729	116441	10.81%	0.247%
55	5.701	5.686	5.731	VV	7809	165651	15.38%	0.351%
56	5.752	5.731	5.764	VV	8642	132791	12.33%	0.281%
57	5.807	5.764	5.861	VV	28251	849954	78.89%	1.799%
58	5.888	5.861	5.906	VV	16149	272471	25.29%	0.577%
59	5.931	5.906	5.970	VV	36667	662996	61.54%	1.404%
60	5.992	5.970	6.023	VV	18995	336916	31.27%	0.713%
61	6.056	6.023	6.080	VV	13249	297031	27.57%	0.629%
62	6.104	6.080	6.122	VV	16929	227576	21.12%	0.482%
63	6.155	6.122	6.175	VV	20841	356049	33.05%	0.754%
64	6.209	6.175	6.235	VV	29326	616904	57.26%	1.306%
65	6.257	6.235	6.277	VV	29867	413272	38.36%	0.875%
66	6.297	6.277	6.307	VV	12297	191379	17.76%	0.405%
67	6.315	6.307	6.328	VV	12299	142542	13.23%	0.302%
68	6.341	6.328	6.351	VV	13187	164858	15.30%	0.349%
69	6.366	6.351	6.418	VV	17755	466684	43.32%	0.988%
70	6.449	6.418	6.466	VV	16415	341438	31.69%	0.723%
71	6.482	6.466	6.509	VV	16916	344977	32.02%	0.730%
72	6.528	6.509	6.554	VV	22278	418380	38.83%	0.886%
73	6.576	6.554	6.592	VV	14334	302253	28.06%	0.640%
74	6.605	6.592	6.654	VV	13063	400673	37.19%	0.848%
75	6.688	6.654	6.705	VV	14611	360425	33.46%	0.763%
76	6.717	6.705	6.727	VV	10511	125395	11.64%	0.265%
77	6.751	6.727	6.765	VV	13694	255193	23.69%	0.540%
78	6.781	6.765	6.790	VV	18816	221432	20.55%	0.469%
79	6.809	6.790	6.832	VV	83388	1073999	99.69%	2.274%
80	6.844	6.832	6.866	VV	24392	376059	34.91%	0.796%
81	6.882	6.866	6.908	VV	22431	371277	34.46%	0.786%
82	6.942	6.908	6.961	VV	19016	436368	40.50%	0.924%
83	6.983	6.961	7.011	VV	30751	604209	56.08%	1.279%
84	7.020	7.011	7.034	VV	15522	181961	16.89%	0.385%
85	7.051	7.034	7.094	VV	18817	459485	42.65%	0.973%
86	7.125	7.094	7.144	VV	18432	410222	38.08%	0.868%
87	7.186	7.144	7.207	VV	27721	760599	70.60%	1.610%
88	7.229	7.207	7.256	VV	25149	467049	43.35%	0.989%
89	7.284	7.256	7.320	VV	17579	511339	47.46%	1.083%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

90	7.333	7.320	7.351	VV	13978	212612	19.74%	0.450%
91	7.376	7.351	7.412	VV	73021	1077332	100	
92	7.431	7.412	7.453	VV	19015	351672	32	
93	7.476	7.453	7.494	VV	25924	422536	39	
94	7.520	7.494	7.536	VV	15423	344638	31	
95	7.563	7.536	7.594	VV	18261	511065	47	
96	7.605	7.594	7.625	VV	12593	212429	19.72%	0.450%
97	7.650	7.625	7.677	VV	15154	393976	36.57%	0.834%
98	7.728	7.677	7.750	VV	20140	726304	67.42%	1.538%
99	7.777	7.750	7.804	VV	35822	699987	64.97%	1.482%
100	7.819	7.804	7.842	VV	15101	268343	24.91%	0.568%
101	7.865	7.842	7.879	VV	16464	281914	26.17%	0.597%
102	7.888	7.879	7.901	VV	13498	163069	15.14%	0.345%
103	7.942	7.901	7.959	VV	25883	591217	54.88%	1.252%
104	7.972	7.959	8.011	VV	18223	403182	37.42%	0.854%
105	8.033	8.011	8.046	VV	18982	291873	27.09%	0.618%
106	8.063	8.046	8.076	VV	24668	346114	32.13%	0.733%
107	8.087	8.076	8.106	VV	22489	301353	27.97%	0.638%
108	8.131	8.106	8.151	VV	23312	423189	39.28%	0.896%
109	8.181	8.151	8.197	VV	15876	376873	34.98%	0.798%
110	8.212	8.197	8.255	VV	17055	466113	43.27%	0.987%
111	8.272	8.255	8.280	VV	12516	165628	15.37%	0.351%
112	8.302	8.280	8.328	VV	63430	854581	79.32%	1.809%
113	8.349	8.328	8.374	VV	15927	366582	34.03%	0.776%
114	8.392	8.374	8.412	VV	17717	306147	28.42%	0.648%
115	8.447	8.412	8.469	VV	14301	453343	42.08%	0.960%
116	8.482	8.469	8.510	VV	13652	308885	28.67%	0.654%
117	8.531	8.510	8.554	VV	20800	377694	35.06%	0.800%
118	8.578	8.554	8.592	VV	15755	287876	26.72%	0.609%
119	8.599	8.592	8.613	VV	14038	168262	15.62%	0.356%
120	8.637	8.613	8.710	VV	27632	840004	77.97%	1.778%
121	8.729	8.710	8.747	VV	12693	240881	22.36%	0.510%
122	8.775	8.747	8.800	VV	12736	342146	31.76%	0.724%
123	8.814	8.800	8.823	VV	10302	130524	12.12%	0.276%
124	8.841	8.823	8.854	VV	18609	270316	25.09%	0.572%
125	8.865	8.854	8.887	VV	14221	259439	24.08%	0.549%
126	8.905	8.887	8.918	VV	15264	248981	23.11%	0.527%
127	8.935	8.918	8.959	VV	24890	395204	36.68%	0.837%
128	8.978	8.959	8.990	VV	16369	241034	22.37%	0.510%
129	9.023	8.990	9.050	VV	53307	885631	82.21%	1.875%
130	9.067	9.050	9.084	VV	10702	200008	18.57%	0.423%
131	9.099	9.084	9.123	VV	11329	206261	19.15%	0.437%
132	9.169	9.123	9.214	VV	12467	486535	45.16%	1.030%
133	9.246	9.214	9.271	VV	12449	349936	32.48%	0.741%
134	9.286	9.271	9.304	VV	10356	195574	18.15%	0.414%
135	9.316	9.304	9.358	VV	9670	287864	26.72%	0.609%
136	9.393	9.358	9.416	VV	12540	309175	28.70%	0.655%
137	9.436	9.416	9.477	VV	8400	258299	23.98%	0.547%
138	9.513	9.477	9.525	VV	6911	172397	16.00%	0.365%
139	9.544	9.525	9.561	VV	8151	151037	14.02%	0.320%
140	9.572	9.561	9.578	VV	6493	62912	5.84%	0.133%
141	9.610	9.578	9.651	VV	8105	281599	26.14%	0.596%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/19/2024

rteres

142	9.684	9.651	9.719	VV	16196	406042	37.69%	0.860%
143	9.728	9.719	9.737	VV	6648	67976	6	
144	9.763	9.737	9.792	VV	11594	276026	25	
145	9.846	9.792	9.891	VV	9690	353410	32	
146	9.923	9.891	9.978	VV	4299	201909	18	
147	10.003	9.978	10.018	VV	4817	103789	9	
148	10.044	10.018	10.074	VV	9183	219176	20.34%	0.464%
149	10.089	10.074	10.108	VV	6332	107131	9.94%	0.227%
150	10.119	10.108	10.130	VV	4575	59069	5.48%	0.125%
151	10.167	10.130	10.180	VV	5486	150867	14.00%	0.319%
152	10.190	10.180	10.234	VV	5455	137923	12.80%	0.292%
153	10.263	10.234	10.280	VV	3594	89791	8.33%	0.190%
154	10.302	10.280	10.311	VV	3989	67500	6.27%	0.143%
155	10.320	10.311	10.344	VV	3880	69620	6.46%	0.147%
156	10.363	10.344	10.413	VV	4043	129326	12.00%	0.274%
157	10.437	10.413	10.448	VV	4111	70557	6.55%	0.149%
158	10.477	10.448	10.508	VV	20761	349325	32.43%	0.740%
159	10.540	10.508	10.598	VV	3686	179482	16.66%	0.380%
160	10.624	10.598	10.651	VV	4126	93352	8.67%	0.198%
161	10.667	10.651	10.693	VV	2293	53241	4.94%	0.113%
162	10.757	10.693	10.788	VV	3994	152848	14.19%	0.324%
163	10.806	10.788	10.815	VV	3602	49335	4.58%	0.104%
164	10.827	10.815	10.868	VV	3637	98068	9.10%	0.208%
165	10.898	10.868	10.929	VV	21731	357813	33.21%	0.757%
166	10.941	10.929	10.980	VV	3425	82304	7.64%	0.174%
167	11.040	10.980	11.070	VV	2287	115536	10.72%	0.245%
168	11.089	11.070	11.131	VV	2335	75207	6.98%	0.159%
169	11.164	11.131	11.186	VV	2612	74121	6.88%	0.157%
170	11.220	11.186	11.264	VV	4413	123538	11.47%	0.262%
171	11.306	11.264	11.325	VV	2046	64528	5.99%	0.137%
172	11.335	11.325	11.342	VV	1719	17106	1.59%	0.036%
173	11.358	11.342	11.372	VV	1848	31164	2.89%	0.066%
174	11.385	11.372	11.408	VV	1866	36815	3.42%	0.078%
175	11.422	11.408	11.443	VV	1730	35017	3.25%	0.074%
176	11.462	11.443	11.501	VV	2225	67592	6.27%	0.143%
177	11.528	11.501	11.568	VV	2863	85572	7.94%	0.181%
178	11.620	11.568	11.663	VV	10470	213528	19.82%	0.452%
179	11.683	11.663	11.711	VV	1678	41437	3.85%	0.088%
180	11.727	11.711	11.748	VV	1522	28799	2.67%	0.061%
181	11.802	11.748	11.818	VV	1960	64985	6.03%	0.138%
182	11.831	11.818	11.868	VV	1795	44530	4.13%	0.094%
183	11.897	11.868	11.911	VV	1578	34708	3.22%	0.073%
184	11.928	11.911	11.954	VV	1636	34676	3.22%	0.073%
185	11.973	11.954	12.004	VV	1354	34901	3.24%	0.074%
186	12.032	12.004	12.064	VV	1462	46121	4.28%	0.098%
187	12.085	12.064	12.117	VV	1518	41373	3.84%	0.088%
188	12.141	12.117	12.152	VV	1563	28488	2.64%	0.060%
189	12.178	12.152	12.253	VV	3224	107392	9.97%	0.227%
190	12.269	12.253	12.285	VV	1157	20101	1.87%	0.043%
191	12.311	12.285	12.371	VV	1368	55698	5.17%	0.118%
192	12.400	12.371	12.450	VV	1110	43090	4.00%	0.091%
193	12.499	12.450	12.541	VV	988	46697	4.33%	0.099%
194	12.572	12.541	12.651	VV	952	53622	4.98%	0.114%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

					rteres			
195	12.700	12.651	12.734	VV	949	38345	3.56%	0.081%
196	12.760	12.734	12.797	VV	1132	34381	3	
197	12.808	12.797	12.815	VV	714	7311	0	
198	12.839	12.815	12.889	VV	1576	39154	3	
199	12.897	12.889	12.921	VV	648	10453	0	
200	12.947	12.921	12.965	VV	801	16379	1	
201	12.980	12.965	13.015	VV	722	15539	1.44%	0.033%
202	13.027	13.015	13.043	VV	375	4853	0.45%	0.010%
203	13.057	13.043	13.070	VV	329	4382	0.41%	0.009%
204	13.117	13.070	13.145	VV	468	14216	1.32%	0.030%
205	13.167	13.145	13.188	VV	460	7792	0.72%	0.016%
206	13.199	13.188	13.219	VV	303	4552	0.42%	0.010%
207	13.285	13.219	13.319	VV	24274	315327	29.27%	0.668%
208	13.332	13.319	13.374	VV	1413	32562	3.02%	0.069%
209	13.386	13.374	13.434	VV	634	16587	1.54%	0.035%
210	13.452	13.434	13.478	VV	796	12993	1.21%	0.028%
211	13.486	13.478	13.497	VV	380	3946	0.37%	0.008%
212	13.507	13.497	13.539	VV	444	8558	0.79%	0.018%
213	13.553	13.539	13.566	VV	294	4043	0.38%	0.009%
214	13.572	13.566	13.578	VV	235	1536	0.14%	0.003%
215	13.584	13.578	13.598	VV	240	2167	0.20%	0.005%
216	13.614	13.598	13.644	VV	236	4247	0.39%	0.009%
217	13.718	13.700	13.745	VV	288	5231	0.49%	0.011%
218	13.804	13.773	13.845	PV	157	4537	0.42%	0.010%
219	13.882	13.845	13.916	VV	227	5808	0.54%	0.012%
220	13.944	13.916	13.970	VV	319	6497	0.60%	0.014%
221	13.985	13.970	14.009	VV	305	3755	0.35%	0.008%
222	14.092	14.074	14.109	VV	167	2273	0.21%	0.005%
223	14.185	14.151	14.226	VV	170	3226	0.30%	0.007%
224	14.268	14.226	14.289	PV	373	6734	0.63%	0.014%
225	14.335	14.289	14.346	VV	188	4359	0.40%	0.009%
226	14.353	14.346	14.361	VV	106	922	0.09%	0.002%
227	14.365	14.361	14.372	VV	147	658	0.06%	0.001%
228	14.550	14.438	14.574	VV	430	18260	1.69%	0.039%
229	14.729	14.638	14.739	VV	394	16239	1.51%	0.034%
230	14.744	14.739	14.772	VV	299	4663	0.43%	0.010%
231	14.839	14.772	14.863	VV	358	12297	1.14%	0.026%
232	14.889	14.863	14.928	VV	405	11579	1.07%	0.025%
233	14.981	14.928	14.991	VV	298	9409	0.87%	0.020%
234	14.998	14.991	15.007	VV	258	1938	0.18%	0.004%
235	15.184	15.178	15.204	VV	244	3194	0.30%	0.007%
236	15.212	15.204	15.231	VV	190	2351	0.22%	0.005%
237	15.277	15.231	15.288	VV	221	4978	0.46%	0.011%
238	15.369	15.361	15.374	VV	153	1141	0.11%	0.002%
239	15.385	15.374	15.414	VV	224	3315	0.31%	0.007%
240	15.427	15.414	15.439	VV	173	1739	0.16%	0.004%
241	15.574	15.530	15.584	VV	173	2989	0.28%	0.006%
242	15.617	15.584	15.634	VV	270	4468	0.41%	0.009%
243	15.657	15.634	15.698	VV	753	13096	1.22%	0.028%
244	15.976	15.748	15.988	PV	168	601	0.06%	0.001%
245	15.992	15.988	15.997	VV	126	549	0.05%	0.001%
246	16.808	16.783	16.824	VV	1785	40427	3.75%	0.086%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-9DL

Manual IntegrationsAPPROVED

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rteres

247	16.858	16.824	16.931	VV	1490	82614	7.67%	0.175%
248	16.971	16.931	16.980	VV	877	25721	2	
249	16.988	16.980	17.001	VV	883	9029	0	
250	17.012	17.001	17.027	VV	594	8129	0	
251	17.105	17.027	17.149	VV	1289	39162	3	
252	17.165	17.149	17.171	PV	77	934	0	

Sum of corrected areas: 47236137

Aliphatic EPH 110724.M Tue Nov 19 08:22:20 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-9			SDG No.:	P4839
Lab Sample ID:	P4839-01			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.1
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015069.D	5	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	21.9		1.76	3.91	mg/kg
Aromatic C12-C16	Aromatic C12-C16	55.2		1.99	5.86	mg/kg
Aromatic C16-C21	Aromatic C16-C21	46.9		5.63	9.77	mg/kg
Aromatic C21-C36	Aromatic C21-C36	5.47	J	11.7	15.6	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	12.1		40 - 140	121%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	12.0		40 - 140	120%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	5.84		40 - 140	58%	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:	P4839-01DL	Acq On:	15 Nov 2024 20:23
Client Sample ID:	P4839-01DL	Operator:	YP\AJ
Data file:	FF015069.D	Misc:	
Instrument:	FID_F	ALS Vial:	74
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	7647045	55.905	200	ug/ml
Aromatic C12-C16	6.372	9.062	19072538	141.255	300	ug/ml
Aromatic C16-C21	9.063	13.374	15328855	119.856	500	ug/ml
Aromatic C21-C36	13.375	18.817	1704896	13.989	800	ug/ml
Aromatic EPH	4.507	18.817	43753334	331.006		ug/ml
2-Bromonaphthalene (SURR)	7.989	7.989	1474828	12.08		ug/ml
2-Flurobiphenyl (SURR)	8.862	8.862	981714	12.02		ug/ml
ortho-Terphenyl (SURR)	11.923	11.923	782760	5.84		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015069.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 20:23
Operator : YP\AJ
Sample : P4839-01DL 5X
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-9DL

Integration File: autoint1.e
Quant Time: Nov 18 00:26:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.989	1474828	12.077 ug/ml
Spiked Amount 50.000		Recovery =	24.15%
6) S 2-Flurobiphenyl (SURR)	8.862	981714	12.025 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	24.05%
11) S ortho-Terphenyl (SURR)	11.923	782760	5.835 ug/ml
Spiked Amount 50.000		Recovery =	11.67%
Target Compounds			

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

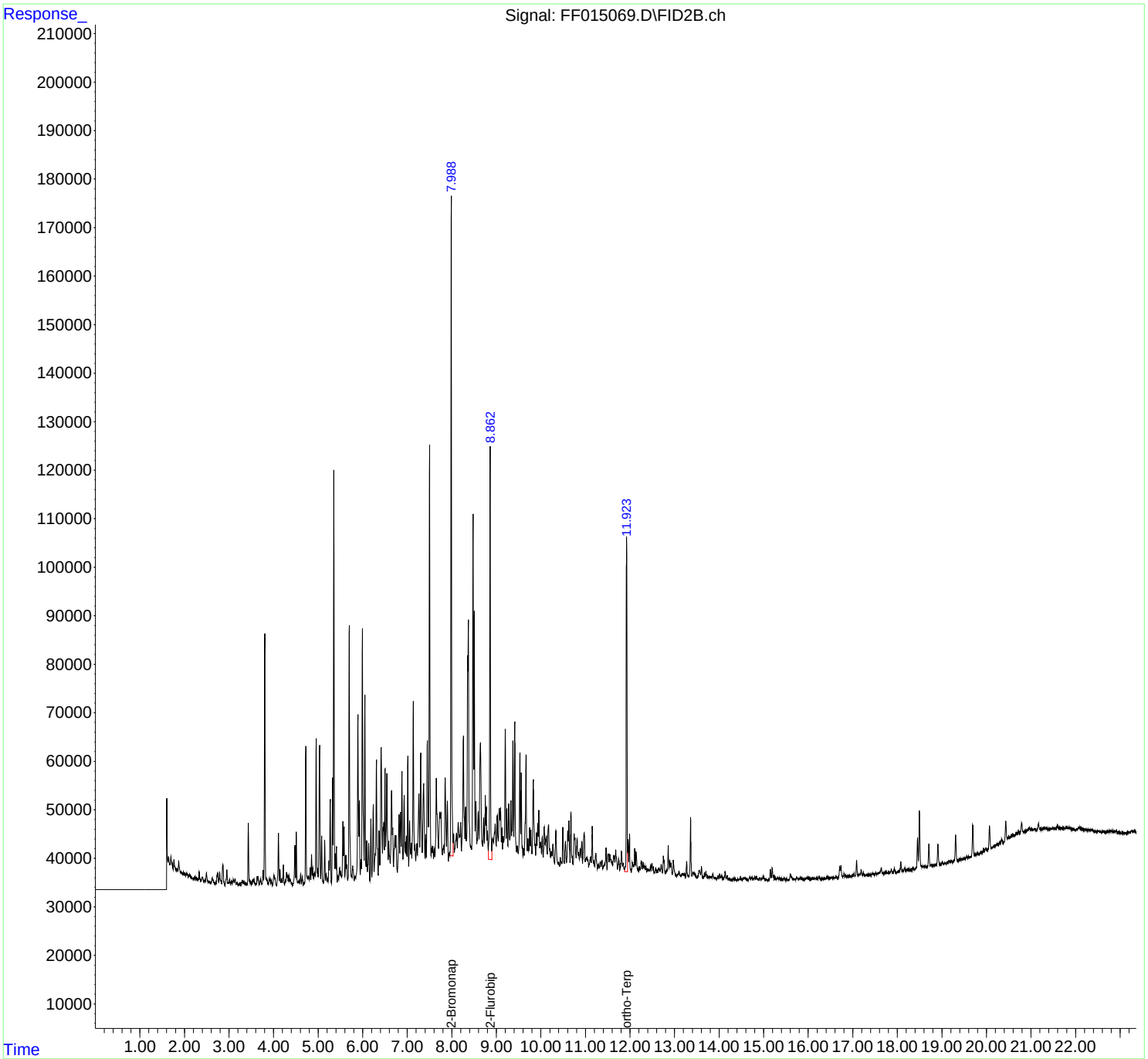
Quantitation Report (QT Reviewed)

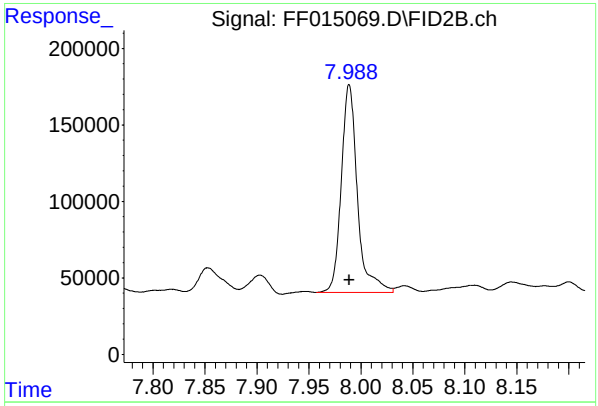
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015069.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 20:23
Operator : YP\AJ
Sample : P4839-01DL 5X
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-9DL

Integration File: autoint1.e
Quant Time: Nov 18 00:26:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

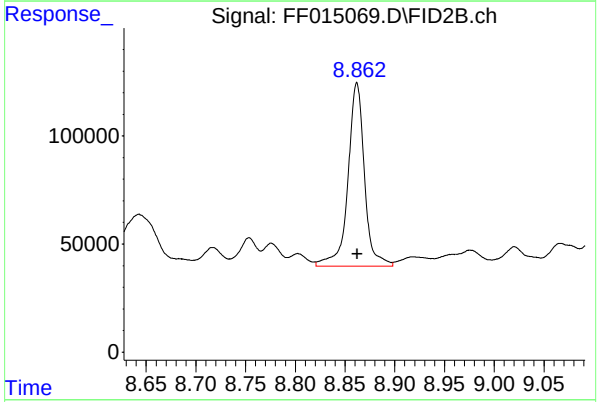




#4 2-Bromonaphthalene (SURR)

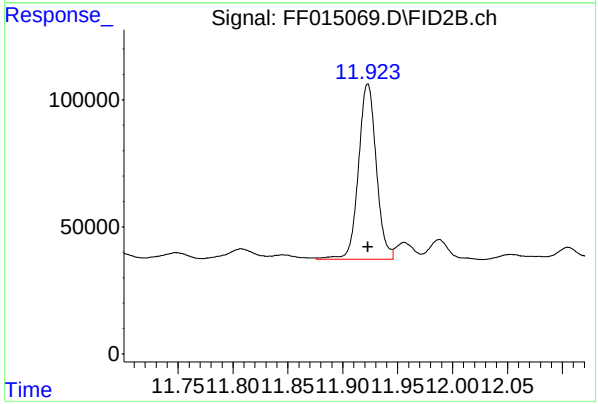
R.T.: 7.989 min
Delta R.T.: 0.000 mi
Response: 1474828
Conc: 12.08 ug/m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-9DL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 981714
Conc: 12.02 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.923 min
Delta R.T.: 0.000 min
Response: 782760
Conc: 5.84 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015069.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 20:23
Sample : P4839-01DL 5X
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.479	4.401	4.495	BV	7868	85245	4.94%	0.179%
2	4.511	4.495	4.542	VV	10650	112010	6.50%	0.235%
3	4.569	4.542	4.587	VV	629	12095	0.70%	0.025%
4	4.607	4.587	4.625	VV	1997	20920	1.21%	0.044%
5	4.645	4.625	4.667	VV	1710	19019	1.10%	0.040%
6	4.724	4.667	4.769	PV	28398	311212	18.05%	0.653%
7	4.782	4.769	4.802	VV	1773	27583	1.60%	0.058%
8	4.824	4.802	4.838	VV	3468	43742	2.54%	0.092%
9	4.854	4.838	4.867	VV	6176	64594	3.75%	0.136%
10	4.878	4.867	4.897	VV	3439	41794	2.42%	0.088%
11	4.913	4.897	4.926	VV	2272	32113	1.86%	0.067%
12	4.956	4.926	4.976	VV	29968	322668	18.71%	0.677%
13	4.987	4.976	5.001	VV	3334	38569	2.24%	0.081%
14	5.033	5.001	5.057	VV	28671	405610	23.52%	0.852%
15	5.080	5.057	5.117	VV	9971	124524	7.22%	0.261%
16	5.149	5.117	5.169	VV	9060	100944	5.85%	0.212%
17	5.183	5.169	5.202	VV	2161	27992	1.62%	0.059%
18	5.214	5.202	5.224	VV	1051	10977	0.64%	0.023%
19	5.244	5.224	5.255	VV	4897	53826	3.12%	0.113%
20	5.272	5.255	5.301	VV	17473	197951	11.48%	0.416%
21	5.325	5.301	5.337	VV	21972	219339	12.72%	0.460%
22	5.353	5.337	5.375	VV	85188	850701	49.34%	1.786%
23	5.387	5.375	5.399	VV	6253	68425	3.97%	0.144%
24	5.411	5.399	5.429	VV	7706	78925	4.58%	0.166%
25	5.447	5.429	5.461	VV	1670	22902	1.33%	0.048%
26	5.483	5.461	5.498	VV	3365	51869	3.01%	0.109%
27	5.509	5.498	5.531	VV	2719	40049	2.32%	0.084%
28	5.557	5.531	5.570	VV	12922	157599	9.14%	0.331%
29	5.582	5.570	5.601	VV	11873	129630	7.52%	0.272%
30	5.624	5.601	5.637	VV	5921	80718	4.68%	0.169%
31	5.645	5.637	5.663	VV	4023	40606	2.35%	0.085%
32	5.698	5.663	5.744	VV	53185	665972	38.62%	1.398%
33	5.752	5.744	5.759	VV	1737	15035	0.87%	0.032%
34	5.775	5.759	5.813	VV	3663	73511	4.26%	0.154%
35	5.830	5.813	5.844	VV	1520	22626	1.31%	0.048%
36	5.894	5.844	5.916	VV	34876	495584	28.74%	1.040%

37	5.927	5.916	5.946	VV	17233	187758	10.89%	0.394%
38	5.963	5.946	5.974	VV	4970	61642	3.57%	0.129%
39	5.994	5.974	6.033	VV	52673	742678	43.07%	1.559%
40	6.050	6.033	6.077	VV	38819	420366	24.38%	0.883%
41	6.091	6.077	6.106	VV	8924	100393	5.82%	0.211%
42	6.136	6.106	6.161	VV	8353	144922	8.40%	0.304%
43	6.186	6.161	6.206	VV	13429	152399	8.84%	0.320%
44	6.239	6.206	6.258	VV	16303	237166	13.75%	0.498%
45	6.310	6.258	6.350	VV	25541	482311	27.97%	1.013%
46	6.368	6.350	6.386	VV	10969	135776	7.87%	0.285%
47	6.415	6.386	6.446	VV	28064	533360	30.93%	1.120%
48	6.460	6.446	6.466	VV	11736	116649	6.77%	0.245%
49	6.475	6.466	6.487	VV	12740	136475	7.92%	0.287%
50	6.502	6.487	6.518	VV	23681	270012	15.66%	0.567%
51	6.544	6.518	6.574	VV	22754	417576	24.22%	0.877%
52	6.587	6.574	6.618	VV	8786	166904	9.68%	0.350%
53	6.649	6.618	6.668	VV	19233	340619	19.75%	0.715%
54	6.675	6.668	6.694	VV	11520	126666	7.35%	0.266%
55	6.726	6.694	6.736	VV	9970	185384	10.75%	0.389%
56	6.748	6.736	6.779	VV	9911	158708	9.20%	0.333%
57	6.817	6.779	6.832	VV	14230	256438	14.87%	0.538%
58	6.847	6.832	6.865	VV	14744	222185	12.89%	0.466%
59	6.882	6.865	6.906	VV	23143	319381	18.52%	0.670%
60	6.932	6.906	6.949	VV	18160	273741	15.88%	0.575%
61	6.958	6.949	6.969	VV	8548	92656	5.37%	0.195%
62	6.983	6.969	6.997	VV	9839	129089	7.49%	0.271%
63	7.014	6.997	7.034	VV	26307	306104	17.75%	0.643%
64	7.054	7.034	7.079	VV	13002	225275	13.07%	0.473%
65	7.092	7.079	7.104	VV	8313	103444	6.00%	0.217%
66	7.137	7.104	7.166	VV	37573	597007	34.62%	1.253%
67	7.175	7.166	7.192	VV	7789	104502	6.06%	0.219%
68	7.214	7.192	7.230	VV	8250	150075	8.70%	0.315%
69	7.263	7.230	7.284	VV	18483	392841	22.78%	0.825%
70	7.303	7.284	7.338	VV	26901	482939	28.01%	1.014%
71	7.369	7.338	7.400	VV	20632	485066	28.13%	1.018%
72	7.416	7.400	7.431	VV	10100	139179	8.07%	0.292%
73	7.451	7.431	7.478	VV	29415	501087	29.06%	1.052%
74	7.502	7.478	7.536	VV	90284	1157233	67.11%	2.429%
75	7.552	7.536	7.564	VV	7343	114269	6.63%	0.240%
76	7.576	7.564	7.591	VV	7636	105887	6.14%	0.222%
77	7.607	7.591	7.622	VV	7085	116061	6.73%	0.244%
78	7.654	7.622	7.703	VV	21705	580472	33.66%	1.219%
79	7.731	7.703	7.741	VV	14719	274624	15.93%	0.577%
80	7.756	7.741	7.788	VV	14528	313444	18.18%	0.658%
81	7.818	7.788	7.831	VV	7738	176730	10.25%	0.371%
82	7.853	7.831	7.883	VV	21741	422564	24.51%	0.887%
83	7.903	7.883	7.924	VV	16968	278356	16.14%	0.584%
84	7.946	7.924	7.957	VV	6273	112008	6.50%	0.235%
85	7.989	7.957	8.031	VV	141575	1724262	100.00%	3.620%
86	8.042	8.031	8.060	VV	9983	148242	8.60%	0.311%
87	8.109	8.060	8.125	VV	10351	330800	19.19%	0.694%
88	8.145	8.125	8.169	VV	12423	271192	15.73%	0.569%
89	8.177	8.169	8.187	VV	9964	109951	6.38%	0.231%

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90	8.200	8.187	8.218	VV	12492	186598	10.82%	0.392%
91	8.261	8.218	8.297	VV	30287	721935	41.87%	1.516%
92	8.310	8.297	8.325	VV	15716	205594	11.92%	0.432%
93	8.358	8.325	8.364	VV	46788	540279	31.33%	1.134%
94	8.373	8.364	8.446	VV	54387	899410	52.16%	1.888%
95	8.479	8.446	8.494	VV	76015	990840	57.46%	2.080%
96	8.506	8.494	8.526	VV	55978	637801	36.99%	1.339%
97	8.542	8.526	8.562	VV	16798	281892	16.35%	0.592%
98	8.595	8.562	8.613	VV	14648	336125	19.49%	0.706%
99	8.643	8.613	8.697	VV	28935	831100	48.20%	1.745%
100	8.717	8.697	8.734	VV	13453	229437	13.31%	0.482%
101	8.754	8.734	8.766	VV	18046	252022	14.62%	0.529%
102	8.776	8.766	8.792	VV	15528	202817	11.76%	0.426%
103	8.803	8.792	8.821	VV	10682	151201	8.77%	0.317%
104	8.862	8.821	8.898	VV	89930	1204059	69.83%	2.528%
105	8.919	8.898	8.941	VV	9194	214529	12.44%	0.450%
106	8.976	8.941	8.997	VV	12181	341568	19.81%	0.717%
107	9.020	8.997	9.047	VV	13842	304195	17.64%	0.639%
108	9.067	9.047	9.086	VV	15356	305190	17.70%	0.641%
109	9.097	9.086	9.114	VV	15469	215043	12.47%	0.451%
110	9.126	9.114	9.142	VV	11326	156590	9.08%	0.329%
111	9.155	9.142	9.168	VV	9518	132859	7.71%	0.279%
112	9.203	9.168	9.223	VV	31619	537033	31.15%	1.127%
113	9.237	9.223	9.260	VV	15280	253379	14.69%	0.532%
114	9.280	9.260	9.300	VV	16232	293984	17.05%	0.617%
115	9.328	9.300	9.343	VV	16953	300702	17.44%	0.631%
116	9.374	9.343	9.391	VV	29163	463104	26.86%	0.972%
117	9.414	9.391	9.454	VV	33069	579428	33.60%	1.216%
118	9.472	9.454	9.494	VV	7623	164960	9.57%	0.346%
119	9.530	9.494	9.547	VV	26626	434399	25.19%	0.912%
120	9.562	9.547	9.579	VV	22626	283886	16.46%	0.596%
121	9.584	9.579	9.599	VV	7470	78608	4.56%	0.165%
122	9.612	9.599	9.626	VV	7071	104728	6.07%	0.220%
123	9.667	9.626	9.696	VV	26231	539003	31.26%	1.132%
124	9.712	9.696	9.730	VV	9089	157008	9.11%	0.330%
125	9.750	9.730	9.764	VV	11316	181445	10.52%	0.381%
126	9.777	9.764	9.802	VV	10776	187150	10.85%	0.393%
127	9.830	9.802	9.866	VV	21177	466144	27.03%	0.979%
128	9.870	9.866	9.885	VV	7706	80078	4.64%	0.168%
129	9.903	9.885	9.915	VV	10266	151592	8.79%	0.318%
130	9.931	9.915	9.942	VV	12196	165296	9.59%	0.347%
131	9.956	9.942	9.979	VV	14911	237582	13.78%	0.499%
132	9.991	9.979	10.016	VV	8207	161104	9.34%	0.338%
133	10.031	10.016	10.053	VV	9261	165646	9.61%	0.348%
134	10.075	10.053	10.097	VV	11442	230561	13.37%	0.484%
135	10.123	10.097	10.142	VV	9535	223373	12.95%	0.469%
136	10.172	10.142	10.218	VV	11777	377316	21.88%	0.792%
137	10.233	10.218	10.250	VV	6346	112139	6.50%	0.235%
138	10.272	10.250	10.307	VV	7927	200745	11.64%	0.421%
139	10.336	10.307	10.384	VV	10616	289150	16.77%	0.607%
140	10.396	10.384	10.416	VV	4138	73539	4.26%	0.154%
141	10.438	10.416	10.454	VV	5136	97227	5.64%	0.204%

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142	10.461	10.454	10.473	VV	4120	44777	2.60%	0.094%
143	10.495	10.473	10.527	VV	11350	209864	12.17%	0.441%
144	10.550	10.527	10.576	VV	8388	176196	10.22%	0.370%
145	10.604	10.576	10.615	VV	10544	172873	10.03%	0.363%
146	10.630	10.615	10.655	VV	12661	211978	12.29%	0.445%
147	10.674	10.655	10.722	VV	14430	287943	16.70%	0.604%
148	10.749	10.722	10.761	VV	9954	165486	9.60%	0.347%
149	10.767	10.761	10.791	VV	9014	131175	7.61%	0.275%
150	10.812	10.791	10.839	VV	8905	195776	11.35%	0.411%
151	10.849	10.839	10.863	VV	6169	81809	4.74%	0.172%
152	10.884	10.863	10.902	VV	6775	137325	7.96%	0.288%
153	10.919	10.902	10.937	VV	8287	134119	7.78%	0.282%
154	10.972	10.937	10.996	VV	10132	253212	14.69%	0.532%
155	11.029	10.996	11.044	VV	5152	137280	7.96%	0.288%
156	11.054	11.044	11.069	VV	4695	62447	3.62%	0.131%
157	11.116	11.069	11.132	VV	5183	158678	9.20%	0.333%
158	11.153	11.132	11.182	VV	11469	200194	11.61%	0.420%
159	11.187	11.182	11.205	VV	4155	51740	3.00%	0.109%
160	11.231	11.205	11.271	VV	5912	165551	9.60%	0.348%
161	11.293	11.271	11.315	VV	3610	83913	4.87%	0.176%
162	11.335	11.315	11.352	VV	4133	81157	4.71%	0.170%
163	11.371	11.352	11.391	VV	4389	85209	4.94%	0.179%
164	11.409	11.391	11.416	VV	3289	47246	2.74%	0.099%
165	11.431	11.416	11.440	VV	3752	51056	2.96%	0.107%
166	11.463	11.440	11.485	VV	7033	133661	7.75%	0.281%
167	11.510	11.485	11.531	VV	5815	131158	7.61%	0.275%
168	11.548	11.531	11.594	VV	5634	174839	10.14%	0.367%
169	11.601	11.594	11.611	VV	3864	37102	2.15%	0.078%
170	11.630	11.611	11.660	VV	5314	138428	8.03%	0.291%
171	11.678	11.660	11.720	VV	6595	168169	9.75%	0.353%
172	11.748	11.720	11.772	VV	4738	109424	6.35%	0.230%
173	11.808	11.772	11.831	VV	6253	146705	8.51%	0.308%
174	11.845	11.831	11.876	VV	3812	84294	4.89%	0.177%
175	11.923	11.876	11.945	VV	71119	866446	50.25%	1.819%
176	11.956	11.945	11.972	VV	8751	108757	6.31%	0.228%
177	11.988	11.972	12.028	VV	9793	161735	9.38%	0.340%
178	12.053	12.028	12.083	VV	3990	104717	6.07%	0.220%
179	12.105	12.083	12.121	VV	6800	107836	6.25%	0.226%
180	12.137	12.121	12.188	VV	6165	150707	8.74%	0.316%
181	12.208	12.188	12.224	VV	3080	58013	3.36%	0.122%
182	12.255	12.224	12.276	VV	4198	100815	5.85%	0.212%
183	12.295	12.276	12.310	VV	3848	67224	3.90%	0.141%
184	12.324	12.310	12.345	VV	3276	60484	3.51%	0.127%
185	12.359	12.345	12.376	VV	3112	49084	2.85%	0.103%
186	12.398	12.376	12.414	VV	2625	53782	3.12%	0.113%
187	12.429	12.414	12.443	VV	2435	40350	2.34%	0.085%
188	12.458	12.443	12.473	VV	3241	49437	2.87%	0.104%
189	12.492	12.473	12.510	VV	3813	68769	3.99%	0.144%
190	12.520	12.510	12.547	VV	2999	52454	3.04%	0.110%
191	12.575	12.547	12.592	VV	2876	61702	3.58%	0.130%
192	12.605	12.592	12.619	VV	2446	34588	2.01%	0.073%
193	12.636	12.619	12.645	VV	2703	36568	2.12%	0.077%
194	12.649	12.645	12.667	VV	2609	32148	1.86%	0.067%

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195	12.701	12.667	12.723	VV	3474	85771	4.97%	0.180%
196	12.748	12.723	12.791	VV	5254	132619	7.69%	0.278%
197	12.825	12.791	12.834	VV	2449	53802	3.12%	0.113%
198	12.857	12.834	12.876	VV	7422	116449	6.75%	0.244%
199	12.892	12.876	12.907	VV	4219	66271	3.84%	0.139%
200	12.919	12.907	12.951	VV	3707	66196	3.84%	0.139%
201	12.972	12.951	13.023	VV	4380	104593	6.07%	0.220%
202	13.029	13.023	13.054	VV	1315	21872	1.27%	0.046%
203	13.075	13.054	13.082	VV	1479	22043	1.28%	0.046%
204	13.099	13.082	13.119	VV	2104	36617	2.12%	0.077%
205	13.132	13.119	13.144	VV	1314	17616	1.02%	0.037%
206	13.162	13.144	13.177	VV	1561	26863	1.56%	0.056%
207	13.190	13.177	13.206	VV	1515	23745	1.38%	0.050%
208	13.222	13.206	13.247	VV	1487	29879	1.73%	0.063%
209	13.269	13.247	13.320	VV	4093	80209	4.65%	0.168%
210	13.359	13.320	13.391	VV	13126	194365	11.27%	0.408%
211	13.413	13.391	13.432	VV	1856	38469	2.23%	0.081%
212	13.443	13.432	13.469	VV	1536	30130	1.75%	0.063%
213	13.477	13.469	13.502	VV	1242	18821	1.09%	0.040%
214	13.506	13.502	13.509	VV	706	2807	0.16%	0.006%
215	13.555	13.509	13.584	VV	2292	68866	3.99%	0.145%
216	13.602	13.584	13.647	VV	3066	56321	3.27%	0.118%
217	13.668	13.647	13.682	VV	1755	24049	1.39%	0.050%
218	13.701	13.682	13.731	VV	1996	37401	2.17%	0.079%
219	13.742	13.731	13.761	VV	911	14758	0.86%	0.031%
220	13.774	13.761	13.802	VV	947	19371	1.12%	0.041%
221	13.823	13.802	13.838	VV	964	17166	1.00%	0.036%
222	13.859	13.838	13.884	VV	1392	27038	1.57%	0.057%
223	13.890	13.884	13.895	VV	621	3978	0.23%	0.008%
224	13.901	13.895	13.922	VV	650	9508	0.55%	0.020%
225	13.927	13.922	13.947	VV	655	7739	0.45%	0.016%
226	13.972	13.947	13.989	VV	976	16956	0.98%	0.036%
227	14.007	13.989	14.025	VV	1472	22708	1.32%	0.048%
228	14.058	14.025	14.086	VV	1062	28354	1.64%	0.060%
229	14.089	14.086	14.097	VV	536	3138	0.18%	0.007%
230	14.136	14.097	14.157	VV	1863	35595	2.06%	0.075%
231	14.177	14.157	14.203	VV	1094	17660	1.02%	0.037%
232	14.217	14.203	14.289	VV	462	14363	0.83%	0.030%
233	14.320	14.289	14.326	VV	407	5349	0.31%	0.011%
234	14.333	14.326	14.369	VV	444	8553	0.50%	0.018%
235	14.377	14.369	14.392	VV	284	2709	0.16%	0.006%
236	14.411	14.392	14.436	VV	322	5973	0.35%	0.013%
237	14.444	14.436	14.461	VV	276	3429	0.20%	0.007%
238	14.479	14.461	14.500	VV	766	10705	0.62%	0.022%
239	14.512	14.500	14.521	VV	257	2617	0.15%	0.005%
240	14.552	14.521	14.564	VV	585	9896	0.57%	0.021%
241	14.579	14.564	14.586	VV	687	6349	0.37%	0.013%
242	14.590	14.586	14.614	VV	476	5960	0.35%	0.013%
243	14.629	14.614	14.648	VV	296	4280	0.25%	0.009%
244	14.692	14.648	14.714	VV	699	17342	1.01%	0.036%
245	14.731	14.714	14.757	VV	728	12030	0.70%	0.025%
246	14.775	14.757	14.787	VV	497	6794	0.39%	0.014%

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247	14.802	14.787	14.819	VV	802	10169	0.59%	0.021%
248	14.838	14.819	14.858	VV	967	13269	0.77%	0.028%
249	14.867	14.858	14.891	VV	373	5661	0.33%	0.012%
250	14.914	14.891	14.942	VV	595	9930	0.58%	0.021%
251	14.964	14.942	14.976	VV	459	7410	0.43%	0.016%
252	14.995	14.976	15.027	VV	897	15823	0.92%	0.033%
253	15.032	15.027	15.044	VV	293	2126	0.12%	0.004%
254	15.054	15.044	15.061	VV	182	1655	0.10%	0.003%
255	15.063	15.061	15.086	VV	230	1619	0.09%	0.003%
256	15.103	15.086	15.107	PV	196	1538	0.09%	0.003%
257	15.149	15.107	15.168	VV	2330	32581	1.89%	0.068%
258	15.191	15.168	15.231	VV	2629	46365	2.69%	0.097%
259	15.235	15.231	15.281	VV	918	11529	0.67%	0.024%
260	15.310	15.281	15.344	VV	550	14423	0.84%	0.030%
261	15.354	15.344	15.372	VV	514	5930	0.34%	0.012%
262	15.386	15.372	15.422	VV	421	7248	0.42%	0.015%
263	15.430	15.422	15.442	VV	213	2111	0.12%	0.004%
264	15.458	15.442	15.484	VV	498	7501	0.44%	0.016%
265	15.496	15.484	15.531	VV	169	2769	0.16%	0.006%
266	15.599	15.563	15.656	VV	1252	33378	1.94%	0.070%
267	15.664	15.656	15.684	VV	367	3979	0.23%	0.008%
268	15.693	15.684	15.711	VV	163	2406	0.14%	0.005%
269	15.742	15.711	15.773	VV	584	12862	0.75%	0.027%
270	15.782	15.773	15.800	VV	243	2854	0.17%	0.006%
271	15.823	15.800	15.845	VV	699	9822	0.57%	0.021%
272	15.860	15.845	15.889	VV	441	5923	0.34%	0.012%
273	15.902	15.889	15.916	PV	157	1323	0.08%	0.003%
274	15.935	15.916	15.951	VV	302	3855	0.22%	0.008%
275	15.959	15.951	15.965	VV	288	2011	0.12%	0.004%
276	15.984	15.965	16.007	VV	390	7414	0.43%	0.016%
277	16.012	16.007	16.084	VV	266	6675	0.39%	0.014%
278	16.105	16.094	16.122	VV	211	2720	0.16%	0.006%
279	16.142	16.134	16.149	VV	191	1217	0.07%	0.003%
280	16.153	16.149	16.174	VV	249	2991	0.17%	0.006%
281	16.198	16.174	16.217	VV	304	5454	0.32%	0.011%
282	16.239	16.217	16.284	VV	558	9735	0.56%	0.020%
283	16.292	16.284	16.322	VV	164	2166	0.13%	0.005%
284	16.327	16.322	16.357	VV	192	1870	0.11%	0.004%
285	16.377	16.357	16.386	VV	135	1404	0.08%	0.003%
286	16.426	16.392	16.443	PV	400	6837	0.40%	0.014%
287	16.459	16.443	16.477	VV	231	3547	0.21%	0.007%
288	16.524	16.477	16.551	VV	247	5666	0.33%	0.012%
289	16.571	16.551	16.577	PV	164	1261	0.07%	0.003%
290	16.585	16.577	16.600	VV	194	1635	0.09%	0.003%
291	16.623	16.600	16.648	VV	427	6286	0.36%	0.013%
292	16.705	16.672	16.717	VV	2302	31202	1.81%	0.066%
293	16.733	16.717	16.782	VV	2518	41912	2.43%	0.088%
294	16.802	16.782	16.829	VV	911	13175	0.76%	0.028%
295	16.848	16.829	16.853	VV	352	3866	0.22%	0.008%
296	16.857	16.853	16.863	VV	261	1410	0.08%	0.003%
297	16.873	16.863	16.877	VV	216	1536	0.09%	0.003%
298	16.897	16.877	16.926	VV	301	5849	0.34%	0.012%
299	16.931	16.926	16.969	VV	250	3400	0.20%	0.007%

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300	17.027	16.977	17.051	VV	633	12892	0.75%	0.027%
301	17.084	17.051	17.124	VV	3368	47518	2.76%	0.100%
302	17.140	17.124	17.166	VV	359	7402	0.43%	0.016%
303	17.187	17.166	17.216	VV	1290	20361	1.18%	0.043%
304	17.236	17.216	17.265	VV	619	10171	0.59%	0.021%
305	17.271	17.265	17.277	VV	192	1236	0.07%	0.003%
306	17.284	17.277	17.290	VV	191	1283	0.07%	0.003%
307	17.318	17.290	17.346	VV	222	4544	0.26%	0.010%
308	17.396	17.361	17.411	VV	172	2664	0.15%	0.006%
309	17.447	17.411	17.452	PV	291	4138	0.24%	0.009%
310	17.463	17.452	17.486	VV	295	3212	0.19%	0.007%
311	17.498	17.486	17.509	VV	228	2182	0.13%	0.005%
312	17.513	17.509	17.517	VV	228	1050	0.06%	0.002%
313	17.524	17.517	17.533	VV	281	2069	0.12%	0.004%
314	17.547	17.542	17.554	VV	202	1047	0.06%	0.002%
315	17.615	17.554	17.619	VV	549	13294	0.77%	0.028%
316	17.639	17.619	17.695	VV	1376	24877	1.44%	0.052%
317	17.737	17.706	17.774	VV	398	10074	0.58%	0.021%
318	17.786	17.774	17.792	VV	138	1305	0.08%	0.003%
319	17.804	17.799	17.834	VV	348	3396	0.20%	0.007%
320	17.864	17.834	17.897	VV	853	12839	0.74%	0.027%
321	17.934	17.897	17.967	VV	878	13595	0.79%	0.029%
322	17.972	17.967	18.004	VV	138	1326	0.08%	0.003%
323	18.046	18.014	18.050	PV	318	3595	0.21%	0.008%
324	18.076	18.050	18.109	VV	2172	32759	1.90%	0.069%
325	18.127	18.109	18.138	VV	334	3516	0.20%	0.007%
326	18.165	18.138	18.202	VV	722	13155	0.76%	0.028%
327	18.223	18.202	18.229	VV	291	3065	0.18%	0.006%
328	18.262	18.229	18.282	VV	378	6930	0.40%	0.015%
329	18.356	18.282	18.382	PV	420	9422	0.55%	0.020%
330	18.404	18.382	18.412	VV	251	2742	0.16%	0.006%
331	18.452	18.412	18.472	VV	6489	93644	5.43%	0.197%
332	18.494	18.472	18.551	VV	11943	185542	10.76%	0.390%
333	18.556	18.551	18.576	VV	311	4126	0.24%	0.009%
334	18.591	18.576	18.627	VV	424	8672	0.50%	0.018%
335	18.632	18.627	18.659	VV	182	1475	0.09%	0.003%
336	18.707	18.664	18.743	PV	4729	65099	3.78%	0.137%
337	18.759	18.743	18.783	VV	266	4199	0.24%	0.009%

Sum of corrected areas: 47633344

Aromatic EPH 111524.M Mon Nov 18 01:03:54 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-10			SDG No.:	P4839
Lab Sample ID:	P4839-02			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.4
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 9:51	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	28.0		5	2.17	5.70	mg/kg	FE051301.D
Aliphatic C12-C16	Aliphatic C12-C16	53.1		5	1.37	3.80	mg/kg	FE051301.D
Aliphatic C16-C21	Aliphatic C16-C21	10.3		1	0.34	1.14	mg/kg	FE051263.D
Aliphatic C21-C28	Aliphatic C21-C28	1.08	J	1	0.91	1.52	mg/kg	FE051263.D
Aliphatic C28-C40	Aliphatic C28-C40	4.38		1	2.05	2.28	mg/kg	FE051263.D
Aromatic C10-C12	Aromatic C10-C12	4.70		1	0.34	0.76	mg/kg	FD048781.D
Aromatic C12-C16	Aromatic C12-C16	15.3		1	0.39	1.14	mg/kg	FD048781.D
Aromatic C16-C21	Aromatic C16-C21	19.3		1	1.10	1.90	mg/kg	FD048781.D
Aromatic C21-C36	Aromatic C21-C36	3.96		1	2.28	3.04	mg/kg	FD048781.D
Total AliphaticEPH	Total AliphaticEPH	96.9			6.84	14.4	mg/kg	
Total AromaticEPH	Total AromaticEPH	43.3			4.11	6.84	mg/kg	
Total EPH	Total EPH	140			11.0	21.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-10		SDG No.:	P4839	
Lab Sample ID:	P4839-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.4	
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
FD048781.D	1	11/14/24	11/19/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.70		0.34	0.76	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.3		0.39	1.14	mg/kg
Aromatic C16-C21	Aromatic C16-C21	19.3		1.10	1.90	mg/kg
Aromatic C21-C36	Aromatic C21-C36	3.96		2.28	3.04	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.2		40 - 140	122%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.1		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.0		40 - 140	98%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-02	Acq On:	19 Nov 2024 13:45
Client Sample ID:	EX-9-TPH-10	Operator:	YP/AJ
Data file:	FD048781.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	4.088	5.805	11878169	61.86	200	ug/ml
Aromatic C12-C16	5.806	8.411	38738247	201.281	300	ug/ml
Aromatic C16-C21	8.412	12.674	47042604	253.183	500	ug/ml
Aromatic C21-C36	12.675	18.081	8188485	52.079	800	ug/ml
Aromatic EPH	4.088	18.081	105847505	568.403		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	10769066	61.17		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	6808569	59.12		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	9422640	48.99		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048781.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 13:45
Operator : YP/AJ
Sample : P4839-02
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-10

Integration File: autoint1.e
Quant Time: Nov 19 14:43:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	10769066	61.167 ug/ml
Spiked Amount 50.000		Recovery = 122.33%	
6) S 2-Flurobiphenyl (SURR)	8.218	6808569	59.117 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 118.23%	
11) S ortho-Terphenyl (SURR)	11.254	9422640	48.991 ug/ml
Spiked Amount 50.000		Recovery = 97.98%	
Target Compounds			

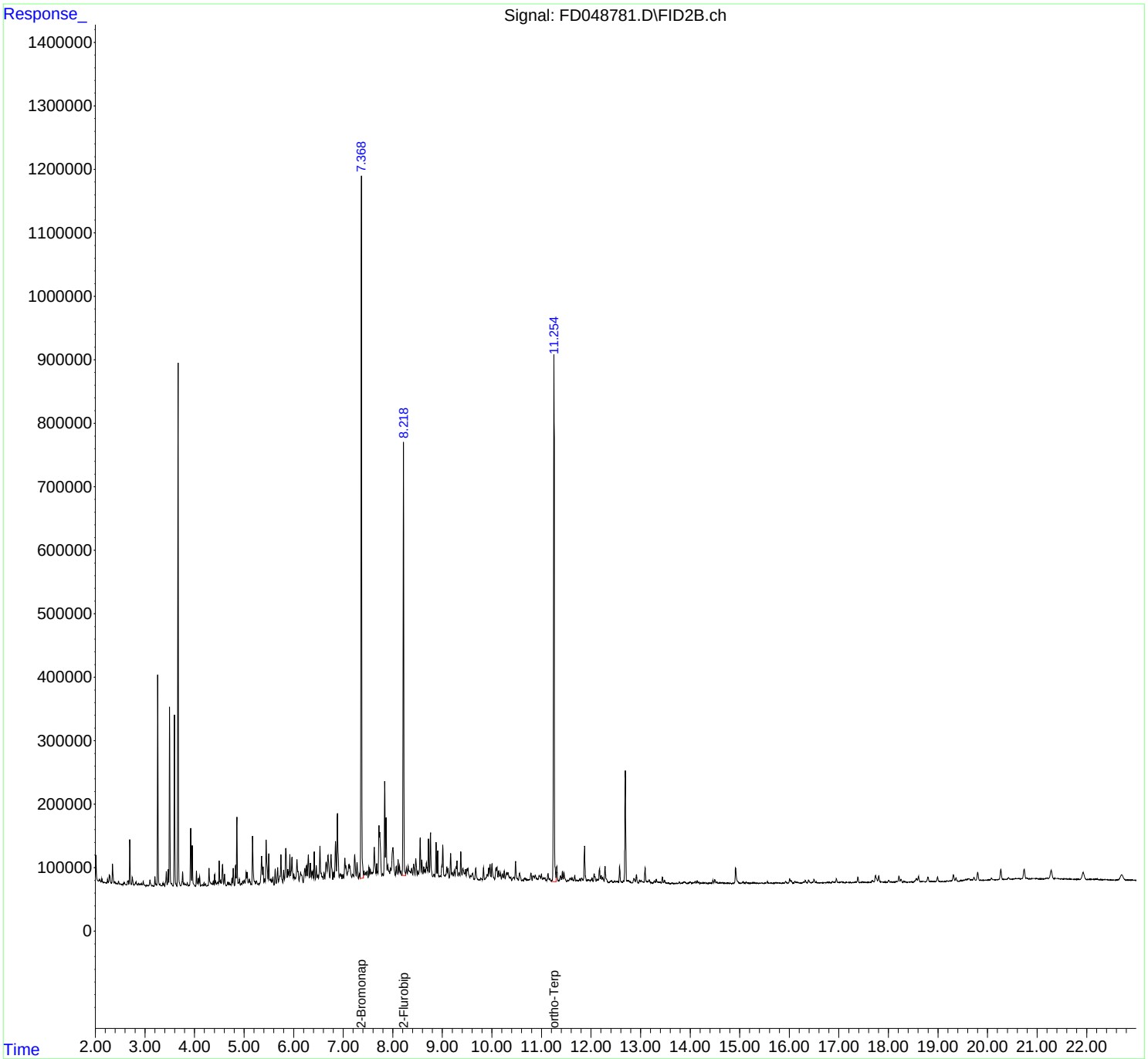
(f)=RT Delta > 1/2 Window (m)=manual int.

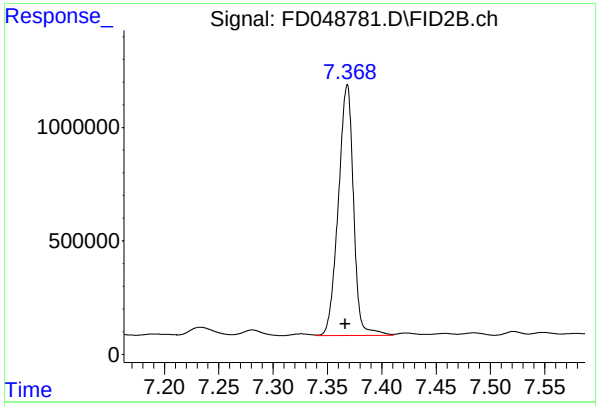
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048781.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 13:45
Operator : YP/AJ
Sample : P4839-02
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-10

Integration File: autoint1.e
Quant Time: Nov 19 14:43:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

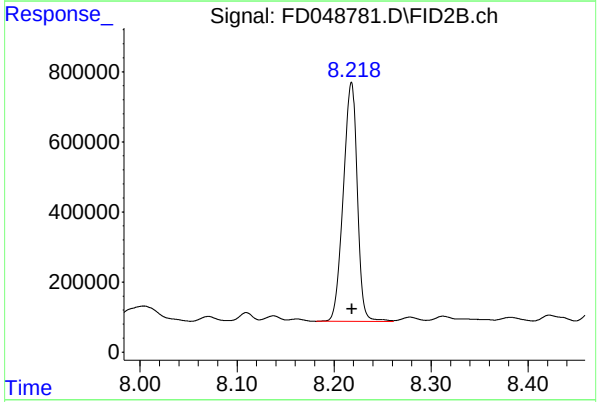




#4 2-Bromonaphthalene (SURR)

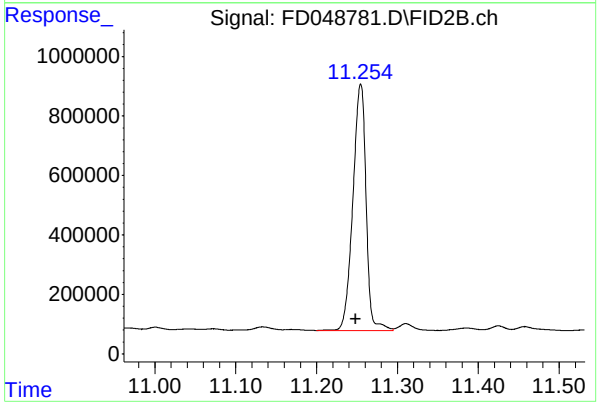
R.T.: 7.368 min
Delta R.T.: 0.001 min
Response: 10769066
Conc: 61.17 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-10



#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 6808569
Conc: 59.12 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: 0.006 min
Response: 9422640
Conc: 48.99 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048781.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 13:45
Sample : P4839-02
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.104	4.090	4.130	PV	12045	94584	0.84%	0.076%
2	4.157	4.130	4.176	PV	2406	28136	0.25%	0.023%
3	4.192	4.176	4.206	VV	4982	43309	0.39%	0.035%
4	4.223	4.206	4.242	VV	3993	41705	0.37%	0.033%
5	4.268	4.242	4.276	PV	1186	12017	0.11%	0.010%
6	4.293	4.276	4.333	VV	28228	347560	3.09%	0.279%
7	4.341	4.333	4.362	VV	4528	63168	0.56%	0.051%
8	4.379	4.362	4.391	VV	7882	85910	0.76%	0.069%
9	4.406	4.391	4.419	VV	18804	177311	1.58%	0.142%
10	4.427	4.419	4.443	VV	8307	84216	0.75%	0.068%
11	4.459	4.443	4.464	VV	5509	55500	0.49%	0.045%
12	4.475	4.464	4.483	VV	6995	66247	0.59%	0.053%
13	4.499	4.483	4.516	VV	40009	374779	3.34%	0.301%
14	4.525	4.516	4.540	VV	9559	102515	0.91%	0.082%
15	4.566	4.540	4.588	VV	34321	476387	4.24%	0.382%
16	4.606	4.588	4.642	VV	19089	233035	2.07%	0.187%
17	4.672	4.642	4.687	VV	6609	83074	0.74%	0.067%
18	4.700	4.687	4.717	VV	5783	67292	0.60%	0.054%
19	4.727	4.717	4.737	VV	2812	26727	0.24%	0.021%
20	4.757	4.737	4.767	VV	12505	127535	1.14%	0.102%
21	4.782	4.767	4.809	VV	28261	308437	2.75%	0.247%
22	4.829	4.809	4.840	VV	33505	308440	2.75%	0.247%
23	4.855	4.840	4.880	VV	108933	1028337	9.15%	0.825%
24	4.889	4.880	4.894	VV	5264	39572	0.35%	0.032%
25	4.908	4.894	4.925	VV	11076	118537	1.05%	0.095%
26	4.942	4.925	4.954	VV	3856	52064	0.46%	0.042%
27	4.973	4.954	4.988	VV	8093	112297	1.00%	0.090%
28	5.001	4.988	5.020	VV	9066	128388	1.14%	0.103%
29	5.042	5.020	5.054	VV	21858	278854	2.48%	0.224%
30	5.065	5.054	5.082	VV	22098	229959	2.05%	0.185%
31	5.104	5.082	5.116	VV	10488	148814	1.32%	0.119%
32	5.122	5.116	5.136	VV	6959	62660	0.56%	0.050%
33	5.145	5.136	5.153	VV	3346	27169	0.24%	0.022%
34	5.172	5.153	5.209	VV	78406	957619	8.52%	0.768%
35	5.216	5.209	5.231	VV	7497	78032	0.69%	0.063%
36	5.249	5.231	5.280	VV	7798	146647	1.31%	0.118%

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37	5.296	5.280	5.307	VV	3765	49519	0.44%	0.040%
38	5.354	5.307	5.375	VV	46962	802336	7.14%	0.644%
39	5.385	5.375	5.402	VV	30229	305098	2.72%	0.245%
40	5.418	5.402	5.429	VV	11384	150365	1.34%	0.121%
41	5.446	5.429	5.484	VV	72730	1135806	10.11%	0.911%
42	5.499	5.484	5.517	VV	51015	521396	4.64%	0.418%
43	5.521	5.517	5.530	VV	10231	76190	0.68%	0.061%
44	5.538	5.530	5.551	VV	10220	106060	0.94%	0.085%
45	5.561	5.551	5.568	VV	8303	76353	0.68%	0.061%
46	5.582	5.568	5.606	VV	13996	176502	1.57%	0.142%
47	5.628	5.606	5.649	VV	26534	291464	2.59%	0.234%
48	5.679	5.649	5.695	VV	28872	393971	3.51%	0.316%
49	5.723	5.695	5.728	VV	15201	226921	2.02%	0.182%
50	5.745	5.728	5.782	VV	49189	663783	5.91%	0.533%
51	5.799	5.782	5.814	VV	25132	285572	2.54%	0.229%
52	5.842	5.814	5.870	VV	59343	1059808	9.43%	0.850%
53	5.883	5.870	5.894	VV	26423	290103	2.58%	0.233%
54	5.902	5.894	5.912	VV	22135	213086	1.90%	0.171%
55	5.925	5.912	5.940	VV	49360	527201	4.69%	0.423%
56	5.967	5.940	5.992	VV	45164	807091	7.18%	0.648%
57	6.005	5.992	6.018	VV	19029	236481	2.10%	0.190%
58	6.026	6.018	6.038	VV	13503	147285	1.31%	0.118%
59	6.068	6.038	6.110	VV	41591	925654	8.24%	0.743%
60	6.141	6.110	6.159	VV	20919	459823	4.09%	0.369%
61	6.164	6.159	6.194	VV	16960	243967	2.17%	0.196%
62	6.228	6.194	6.242	VV	26864	514774	4.58%	0.413%
63	6.260	6.242	6.275	VV	31968	460634	4.10%	0.370%
64	6.298	6.275	6.318	VV	48520	755747	6.73%	0.606%
65	6.339	6.318	6.356	VV	35750	525131	4.67%	0.421%
66	6.369	6.356	6.377	VV	21603	237832	2.12%	0.191%
67	6.387	6.377	6.402	VV	23028	269534	2.40%	0.216%
68	6.416	6.402	6.439	VV	53783	635750	5.66%	0.510%
69	6.458	6.439	6.476	VV	31894	449489	4.00%	0.361%
70	6.492	6.476	6.504	VV	16798	237587	2.11%	0.191%
71	6.532	6.504	6.597	VV	62567	1302296	11.59%	1.045%
72	6.614	6.597	6.632	VV	20706	319079	2.84%	0.256%
73	6.656	6.632	6.676	VV	36916	728352	6.48%	0.584%
74	6.694	6.676	6.731	VV	48026	1028882	9.16%	0.826%
75	6.756	6.731	6.791	VV	49108	985403	8.77%	0.791%
76	6.805	6.791	6.822	VV	21390	299823	2.67%	0.241%
77	6.846	6.822	6.865	VV	69688	1040293	9.26%	0.835%
78	6.884	6.865	6.920	VV	113921	1747215	15.55%	1.402%
79	6.940	6.920	6.952	VV	18247	310029	2.76%	0.249%
80	6.962	6.952	6.976	VV	17434	209698	1.87%	0.168%
81	6.992	6.976	7.010	VV	17050	286384	2.55%	0.230%
82	7.035	7.010	7.047	VV	43163	615875	5.48%	0.494%
83	7.053	7.047	7.081	VV	30755	499172	4.44%	0.401%
84	7.112	7.081	7.123	VV	33292	616451	5.49%	0.495%
85	7.132	7.123	7.174	VV	31094	679675	6.05%	0.545%
86	7.190	7.174	7.213	VV	17846	373381	3.32%	0.300%
87	7.233	7.213	7.262	VV	47987	885722	7.88%	0.711%
88	7.281	7.262	7.308	VV	36250	609394	5.42%	0.489%
89	7.326	7.308	7.341	VV	18610	295774	2.63%	0.237%

90	7.368	7.341	7.410	VV	1119007	11235840	100.00%	9.015%
91	7.423	7.410	7.440	VV	22671	348863	3.10%	0.280%
92	7.458	7.440	7.470	VV	20561	326822	2.91%	0.262%
93	7.485	7.470	7.504	VV	22895	383647	3.41%	0.308%
94	7.521	7.504	7.535	VV	28978	395853	3.52%	0.318%
95	7.548	7.535	7.567	VV	25291	405587	3.61%	0.325%
96	7.579	7.567	7.590	VV	20336	269503	2.40%	0.216%
97	7.627	7.590	7.663	VV	60134	1415983	12.60%	1.136%
98	7.677	7.663	7.691	VV	34305	431374	3.84%	0.346%
99	7.697	7.691	7.704	VV	20497	145370	1.29%	0.117%
100	7.722	7.704	7.732	VV	94333	1026865	9.14%	0.824%
101	7.738	7.732	7.781	VV	84009	1458611	12.98%	1.170%
102	7.796	7.781	7.813	VV	18316	322094	2.87%	0.258%
103	7.839	7.813	7.854	VV	164092	1928786	17.17%	1.548%
104	7.867	7.854	7.888	VV	106735	1259357	11.21%	1.010%
105	7.901	7.888	7.940	VV	32013	773035	6.88%	0.620%
106	7.955	7.940	7.968	VV	26904	397431	3.54%	0.319%
107	8.004	7.968	8.053	VV	59380	1844472	16.42%	1.480%
108	8.070	8.053	8.091	VV	29730	514890	4.58%	0.413%
109	8.110	8.091	8.124	VV	40553	543576	4.84%	0.436%
110	8.138	8.124	8.152	VV	31312	427587	3.81%	0.343%
111	8.162	8.152	8.182	VV	22373	344956	3.07%	0.277%
112	8.218	8.182	8.261	VV	700096	7539512	67.10%	6.049%
113	8.278	8.261	8.296	VV	27655	460846	4.10%	0.370%
114	8.313	8.296	8.329	VV	30292	488300	4.35%	0.392%
115	8.334	8.329	8.365	VV	22554	464749	4.14%	0.373%
116	8.382	8.365	8.405	VV	26543	529815	4.72%	0.425%
117	8.422	8.405	8.449	VV	33384	655705	5.84%	0.526%
118	8.466	8.449	8.494	VV	42271	780232	6.94%	0.626%
119	8.507	8.494	8.522	VV	22260	314492	2.80%	0.252%
120	8.554	8.522	8.574	VV	75175	1179070	10.49%	0.946%
121	8.588	8.574	8.612	VV	39840	623927	5.55%	0.501%
122	8.626	8.612	8.640	VV	28538	396143	3.53%	0.318%
123	8.652	8.640	8.664	VV	24396	324074	2.88%	0.260%
124	8.679	8.664	8.705	VV	35103	689729	6.14%	0.553%
125	8.722	8.705	8.740	VV	73216	888081	7.90%	0.713%
126	8.763	8.740	8.812	VV	82312	1434757	12.77%	1.151%
127	8.832	8.812	8.850	VV	17374	349394	3.11%	0.280%
128	8.877	8.850	8.894	VV	67549	923372	8.22%	0.741%
129	8.908	8.894	8.929	VV	54188	666291	5.93%	0.535%
130	8.935	8.929	8.950	VV	14717	179284	1.60%	0.144%
131	8.960	8.950	8.972	VV	14522	184196	1.64%	0.148%
132	8.991	8.972	8.996	VV	30059	325190	2.89%	0.261%
133	9.011	8.996	9.053	VV	63089	1027970	9.15%	0.825%
134	9.068	9.053	9.075	VV	16854	206792	1.84%	0.166%
135	9.091	9.075	9.103	VV	28702	390449	3.48%	0.313%
136	9.115	9.103	9.141	VV	26163	437593	3.89%	0.351%
137	9.169	9.141	9.190	VV	49871	800220	7.12%	0.642%
138	9.202	9.190	9.222	VV	19865	342973	3.05%	0.275%
139	9.242	9.222	9.259	VV	23225	411048	3.66%	0.330%
140	9.278	9.259	9.285	VV	28144	353147	3.14%	0.283%
141	9.298	9.285	9.318	VV	38371	531234	4.73%	0.426%

142	9.337	9.318	9.357	VV	19319	396471	3.53%	0.318%
143	9.375	9.357	9.398	VV	52769	734680	6.54%	0.589%
144	9.416	9.398	9.454	VV	26316	700133	6.23%	0.562%
145	9.468	9.454	9.482	VV	24796	334149	2.97%	0.268%
146	9.499	9.482	9.507	VV	24916	322480	2.87%	0.259%
147	9.517	9.507	9.556	VV	26582	543376	4.84%	0.436%
148	9.570	9.556	9.588	VV	14300	256922	2.29%	0.206%
149	9.611	9.588	9.642	VV	17874	458209	4.08%	0.368%
150	9.676	9.642	9.729	VV	26382	704409	6.27%	0.565%
151	9.744	9.729	9.760	VV	8375	150944	1.34%	0.121%
152	9.779	9.760	9.808	VV	10727	260927	2.32%	0.209%
153	9.832	9.808	9.857	VV	27268	440901	3.92%	0.354%
154	9.906	9.857	9.920	VV	16699	459995	4.09%	0.369%
155	9.936	9.920	9.947	VV	26568	337732	3.01%	0.271%
156	9.963	9.947	9.985	VV	32166	517249	4.60%	0.415%
157	10.003	9.985	10.058	VV	33298	754213	6.71%	0.605%
158	10.082	10.058	10.093	VV	26433	404418	3.60%	0.324%
159	10.104	10.093	10.123	VV	27577	380088	3.38%	0.305%
160	10.139	10.123	10.161	VV	22078	384894	3.43%	0.309%
161	10.176	10.161	10.192	VV	18654	271902	2.42%	0.218%
162	10.215	10.192	10.233	VV	16698	332208	2.96%	0.267%
163	10.251	10.233	10.269	VV	22067	332202	2.96%	0.267%
164	10.299	10.269	10.311	VV	18949	391108	3.48%	0.314%
165	10.326	10.311	10.349	VV	19175	368831	3.28%	0.296%
166	10.356	10.349	10.373	VV	12235	166735	1.48%	0.134%
167	10.384	10.373	10.402	VV	12091	166880	1.49%	0.134%
168	10.442	10.402	10.459	VV	12145	342723	3.05%	0.275%
169	10.479	10.459	10.535	VV	36869	719969	6.41%	0.578%
170	10.559	10.535	10.603	VV	18356	465522	4.14%	0.374%
171	10.618	10.603	10.632	VV	7595	119607	1.06%	0.096%
172	10.662	10.632	10.688	VV	9958	279244	2.49%	0.224%
173	10.698	10.688	10.724	VV	8890	171831	1.53%	0.138%
174	10.742	10.724	10.750	VV	7825	115253	1.03%	0.092%
175	10.760	10.750	10.766	VV	8170	77602	0.69%	0.062%
176	10.789	10.766	10.813	VV	18095	343805	3.06%	0.276%
177	10.830	10.813	10.838	VV	13949	168050	1.50%	0.135%
178	10.842	10.838	10.860	VV	13138	161023	1.43%	0.129%
179	10.876	10.860	10.900	VV	15143	299648	2.67%	0.240%
180	10.909	10.900	10.919	VV	9780	105400	0.94%	0.085%
181	10.927	10.919	10.935	VV	8764	77936	0.69%	0.063%
182	10.955	10.935	10.985	VV	14664	363357	3.23%	0.292%
183	11.001	10.985	11.023	VV	16458	272182	2.42%	0.218%
184	11.042	11.023	11.058	VV	10370	203310	1.81%	0.163%
185	11.072	11.058	11.093	VV	10822	186595	1.66%	0.150%
186	11.133	11.093	11.158	VV	17415	407668	3.63%	0.327%
187	11.169	11.158	11.200	VV	8526	179312	1.60%	0.144%
188	11.255	11.200	11.295	VV	834962	9689867	86.24%	7.775%
189	11.310	11.295	11.352	VV	28327	461143	4.10%	0.370%
190	11.386	11.352	11.405	VV	13407	299003	2.66%	0.240%
191	11.425	11.405	11.442	VV	20719	299578	2.67%	0.240%
192	11.457	11.442	11.510	VV	18165	412547	3.67%	0.331%
193	11.532	11.510	11.549	VV	6980	136881	1.22%	0.110%
194	11.582	11.549	11.602	VV	10058	254728	2.27%	0.204%

195	11.618	11.602	11.643	VV	10737	204072	1.82%	0.164%
196	11.672	11.643	11.692	VV	14239	276788	2.46%	0.222%
197	11.702	11.692	11.711	VV	6600	71556	0.64%	0.057%
198	11.719	11.711	11.745	VV	6614	124322	1.11%	0.100%
199	11.759	11.745	11.763	VV	6930	67410	0.60%	0.054%
200	11.776	11.763	11.792	VV	8965	129874	1.16%	0.104%
201	11.813	11.792	11.844	VV	10148	246676	2.20%	0.198%
202	11.870	11.844	11.911	VV	60788	898804	8.00%	0.721%
203	11.926	11.911	11.937	VV	6832	97842	0.87%	0.079%
204	11.952	11.937	11.964	VV	7307	107613	0.96%	0.086%
205	11.972	11.964	11.984	VV	6788	78366	0.70%	0.063%
206	12.019	11.984	12.044	VV	10465	255220	2.27%	0.205%
207	12.064	12.044	12.077	VV	16572	223530	1.99%	0.179%
208	12.081	12.077	12.103	VV	11839	137639	1.22%	0.110%
209	12.120	12.103	12.137	VV	8439	139261	1.24%	0.112%
210	12.171	12.137	12.191	VV	24726	424645	3.78%	0.341%
211	12.206	12.191	12.224	VV	13757	220471	1.96%	0.177%
212	12.237	12.224	12.265	VV	10889	202821	1.81%	0.163%
213	12.285	12.265	12.356	VV	28298	541569	4.82%	0.435%
214	12.389	12.356	12.400	VV	4669	96933	0.86%	0.078%
215	12.413	12.400	12.441	VV	6060	111517	0.99%	0.089%
216	12.451	12.441	12.460	VV	3447	37790	0.34%	0.030%
217	12.478	12.460	12.498	VV	5457	97942	0.87%	0.079%
218	12.514	12.498	12.525	VV	4415	66570	0.59%	0.053%
219	12.532	12.525	12.556	VV	4373	71495	0.64%	0.057%
220	12.577	12.556	12.631	VV	28404	424378	3.78%	0.341%
221	12.654	12.631	12.665	VV	5504	86297	0.77%	0.069%
222	12.692	12.665	12.720	VV	178848	2146829	19.11%	1.723%
223	12.737	12.720	12.825	VV	6147	260640	2.32%	0.209%
224	12.867	12.825	12.895	VV	8653	213999	1.90%	0.172%
225	12.916	12.895	12.955	VV	14736	240542	2.14%	0.193%
226	12.979	12.955	12.994	VV	6487	96031	0.85%	0.077%
227	13.012	12.994	13.033	VV	5800	111202	0.99%	0.089%
228	13.053	13.033	13.070	VV	3847	75547	0.67%	0.061%
229	13.091	13.070	13.122	VV	26007	350530	3.12%	0.281%
230	13.137	13.122	13.150	VV	4237	64156	0.57%	0.051%
231	13.173	13.150	13.231	VV	6810	177339	1.58%	0.142%
232	13.279	13.231	13.298	VV	5267	117537	1.05%	0.094%
233	13.315	13.298	13.336	VV	7518	112531	1.00%	0.090%
234	13.349	13.336	13.371	VV	3763	66133	0.59%	0.053%
235	13.397	13.371	13.416	VV	3537	70205	0.62%	0.056%
236	13.441	13.416	13.463	VV	10860	152460	1.36%	0.122%
237	13.483	13.463	13.513	VV	5839	101284	0.90%	0.081%
238	13.537	13.513	13.565	VV	1750	45561	0.41%	0.037%
239	13.571	13.565	13.597	VV	1404	15704	0.14%	0.013%
240	13.624	13.597	13.633	VV	1732	20673	0.18%	0.017%
241	13.641	13.633	13.666	VV	1509	21845	0.19%	0.018%
242	13.679	13.666	13.695	VV	967	12331	0.11%	0.010%
243	13.712	13.695	13.720	VV	1043	12445	0.11%	0.010%
244	13.733	13.720	13.745	VV	1189	13219	0.12%	0.011%
245	13.785	13.745	13.805	VV	2932	53441	0.48%	0.043%
246	13.834	13.805	13.849	VV	1484	27574	0.25%	0.022%

247	13.879	13.849	13.922	VV	3359	97341	0.87%	0.078%
248	13.932	13.922	13.959	VV	1144	21107	0.19%	0.017%
249	14.005	13.959	14.048	VV	3099	89266	0.79%	0.072%
250	14.064	14.048	14.074	VV	1980	23363	0.21%	0.019%
251	14.101	14.074	14.120	VV	3567	64591	0.57%	0.052%
252	14.142	14.120	14.160	VV	5056	71529	0.64%	0.057%
253	14.174	14.160	14.197	VV	2798	39565	0.35%	0.032%
254	14.214	14.197	14.224	VV	1349	16766	0.15%	0.013%
255	14.232	14.224	14.245	VV	1093	12244	0.11%	0.010%
256	14.262	14.245	14.283	VV	1975	33929	0.30%	0.027%
257	14.302	14.283	14.320	VV	2086	30402	0.27%	0.024%
258	14.338	14.320	14.355	VV	863	13522	0.12%	0.011%
259	14.381	14.355	14.405	VV	1579	27029	0.24%	0.022%
260	14.432	14.405	14.436	VV	1057	13853	0.12%	0.011%
261	14.457	14.436	14.476	VV	5232	68250	0.61%	0.055%
262	14.496	14.476	14.525	VV	6827	111453	0.99%	0.089%
263	14.541	14.525	14.567	VV	3116	43635	0.39%	0.035%
264	14.601	14.567	14.632	VV	1701	46255	0.41%	0.037%
265	14.660	14.632	14.682	VV	1793	39101	0.35%	0.031%
266	14.686	14.682	14.719	VV	1011	19043	0.17%	0.015%
267	14.728	14.719	14.743	VV	870	9596	0.09%	0.008%
268	14.759	14.743	14.788	VV	1514	24172	0.22%	0.019%
269	14.803	14.788	14.847	VV	727	12896	0.11%	0.010%
270	14.885	14.847	14.890	PV	855	11574	0.10%	0.009%
271	14.917	14.890	14.993	VV	24714	442694	3.94%	0.355%
272	15.007	14.993	15.021	VV	942	12599	0.11%	0.010%
273	15.068	15.021	15.098	VV	2867	62387	0.56%	0.050%
274	15.130	15.098	15.153	VV	2553	37911	0.34%	0.030%
275	15.164	15.153	15.198	VV	1230	19364	0.17%	0.016%
276	15.210	15.198	15.223	VV	541	4975	0.04%	0.004%
277	15.234	15.223	15.245	VV	690	7556	0.07%	0.006%
278	15.287	15.245	15.335	VV	1717	52460	0.47%	0.042%
279	15.356	15.335	15.384	VV	842	16367	0.15%	0.013%
280	15.388	15.384	15.400	VV	576	3185	0.03%	0.003%
281	15.444	15.400	15.468	VV	922	23519	0.21%	0.019%
282	15.478	15.468	15.502	VV	639	8485	0.08%	0.007%
283	15.512	15.502	15.535	VV	804	10839	0.10%	0.009%
284	15.558	15.535	15.602	VV	2752	47844	0.43%	0.038%
285	15.632	15.602	15.650	VV	805	17697	0.16%	0.014%
286	15.653	15.650	15.657	VV	415	1620	0.01%	0.001%
287	15.662	15.657	15.677	VV	471	2928	0.03%	0.002%
288	15.729	15.677	15.752	PV	1329	27992	0.25%	0.022%
289	15.772	15.752	15.795	VV	972	14977	0.13%	0.012%
290	15.799	15.795	15.805	VV	476	2323	0.02%	0.002%
291	15.809	15.805	15.813	VV	732	2734	0.02%	0.002%
292	15.817	15.813	15.838	VV	698	6233	0.06%	0.005%
293	15.845	15.838	15.857	VV	257	1547	0.01%	0.001%
294	15.875	15.857	15.893	PV	579	7436	0.07%	0.006%
295	15.927	15.893	15.982	VV	2629	62621	0.56%	0.050%
296	16.006	15.982	16.025	VV	6951	97036	0.86%	0.078%
297	16.038	16.025	16.081	VV	4424	71844	0.64%	0.058%
298	16.112	16.081	16.130	VV	3381	47038	0.42%	0.038%
299	16.140	16.130	16.160	VV	1562	23231	0.21%	0.019%

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300	16.168	16.160	16.200	VV	1426	21505	0.19%	0.017%
301	16.209	16.200	16.217	VV	378	2926	0.03%	0.002%
302	16.221	16.217	16.228	VV	395	2206	0.02%	0.002%
303	16.236	16.228	16.248	VV	474	3983	0.04%	0.003%
304	16.254	16.248	16.260	VV	301	1872	0.02%	0.002%
305	16.290	16.260	16.305	VV	2160	34430	0.31%	0.028%
306	16.323	16.305	16.360	VV	4457	68266	0.61%	0.055%
307	16.388	16.360	16.448	VV	4972	101941	0.91%	0.082%
308	16.499	16.448	16.527	VV	5461	105059	0.94%	0.084%
309	16.543	16.527	16.565	VV	2093	27581	0.25%	0.022%
310	16.575	16.565	16.592	VV	629	7356	0.07%	0.006%
311	16.599	16.592	16.615	VV	498	5270	0.05%	0.004%
312	16.652	16.615	16.670	VV	641	15414	0.14%	0.012%
313	16.704	16.670	16.719	VV	934	17097	0.15%	0.014%
314	16.754	16.719	16.763	VV	845	13946	0.12%	0.011%
315	16.791	16.763	16.811	VV	1397	26861	0.24%	0.022%
316	16.820	16.811	16.845	VV	634	7996	0.07%	0.006%
317	16.878	16.845	16.898	VV	1942	38927	0.35%	0.031%
318	16.907	16.898	16.924	VV	1272	14944	0.13%	0.012%
319	16.950	16.924	16.975	VV	6364	92082	0.82%	0.074%
320	16.980	16.975	17.000	VV	800	8630	0.08%	0.007%
321	17.015	17.000	17.025	VV	798	8333	0.07%	0.007%
322	17.062	17.025	17.128	VV	1716	55862	0.50%	0.045%
323	17.154	17.128	17.174	VV	947	16409	0.15%	0.013%
324	17.181	17.174	17.212	VV	569	10101	0.09%	0.008%
325	17.224	17.212	17.265	VV	795	11878	0.11%	0.010%
326	17.283	17.265	17.290	PV	311	1738	0.02%	0.001%
327	17.315	17.290	17.321	VV	622	6610	0.06%	0.005%
328	17.344	17.321	17.358	VV	1342	20208	0.18%	0.016%
329	17.383	17.358	17.415	VV	8963	123094	1.10%	0.099%
330	17.427	17.415	17.438	VV	472	4576	0.04%	0.004%
331	17.472	17.438	17.502	VV	1533	32068	0.29%	0.026%
332	17.506	17.502	17.513	VV	570	3528	0.03%	0.003%
333	17.529	17.513	17.540	VV	775	10240	0.09%	0.008%
334	17.544	17.540	17.557	VV	616	3769	0.03%	0.003%
335	17.566	17.557	17.571	PV	210	1007	0.01%	0.001%
336	17.586	17.571	17.623	VV	514	10943	0.10%	0.009%
337	17.634	17.623	17.640	VV	504	3497	0.03%	0.003%
338	17.678	17.640	17.710	VV	3413	72595	0.65%	0.058%
339	17.738	17.710	17.781	VV	10786	244030	2.17%	0.196%
340	17.805	17.781	17.835	VV	10566	165669	1.47%	0.133%
341	17.850	17.835	17.892	VV	1185	21788	0.19%	0.017%
342	17.897	17.892	17.905	VV	486	3119	0.03%	0.003%
343	17.912	17.905	17.918	VV	516	3442	0.03%	0.003%
344	17.933	17.918	17.978	VV	736	12954	0.12%	0.010%
345	18.006	17.978	18.041	PV	3283	51316	0.46%	0.041%
346	18.065	18.041	18.071	VV	743	9630	0.09%	0.008%
347	18.073	18.071	18.097	VV	509	4107	0.04%	0.003%
348	18.158	18.097	18.181	PV	748	10052	0.09%	0.008%

Sum of corrected areas: 124632916

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-10		SDG No.:	P4839	
Lab Sample ID:	P4839-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.4	
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
FE051263.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	27.5	E	0.43	1.14	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	51.9	E	0.27	0.76	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.3		0.34	1.14	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.08	J	0.91	1.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.38		2.05	2.28	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	49.6		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-02	Acq On:	15 Nov 2024 15:18
Client Sample ID:	EX-9-TPH-10	Operator:	YP\AJ
Data file:	FE051263.D	Misc:	
Instrument:	FID_E	ALS Vial:	7
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	50599424	361.645	300	ug/ml
Aliphatic C12-C16	6.754	10.185	95974050	682.431	200	ug/ml
Aliphatic C16-C21	10.186	13.544	18662630	135.464	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1900970	14.191	400	ug/ml
Aliphatic C28-C40	17.201	22.043	7420428	57.635	600	ug/ml
Aliphatic EPH	3.134	22.043	174557502	1250		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.282	13.282	5636081	49.64		ug/ml
Aliphatic C9-C28	3.134	17.200	167137074	1190	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051263.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 15:18
Operator : YP\AJ
Sample : P4839-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-10

Integration File: autoint1.e
Quant Time: Nov 16 08:18:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.282	5636081	49.644 ug/ml
Spiked Amount 50.000		Recovery = 99.29%	
Target Compounds			

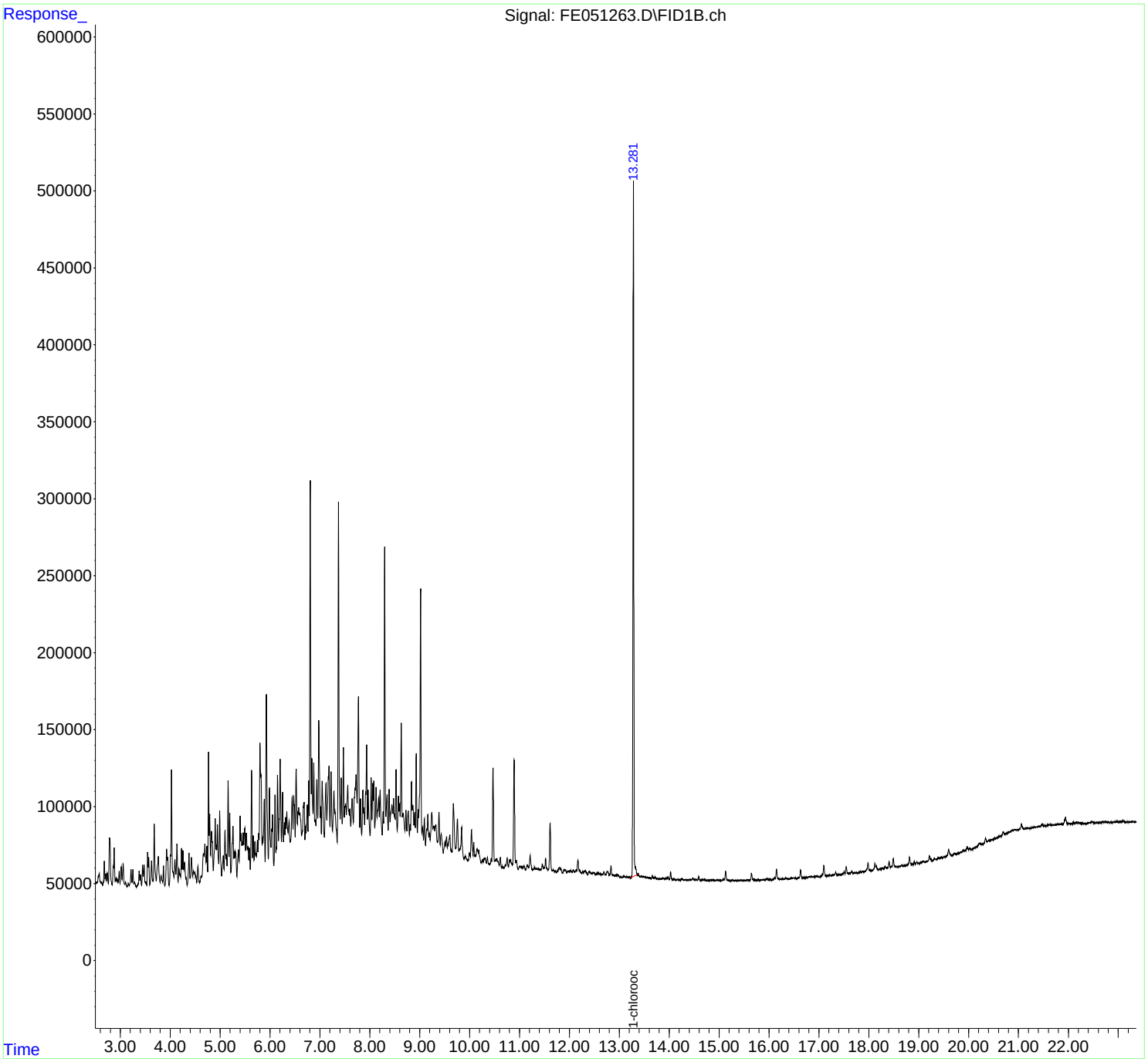
(f)=RT Delta > 1/2 Window (m)=manual int.

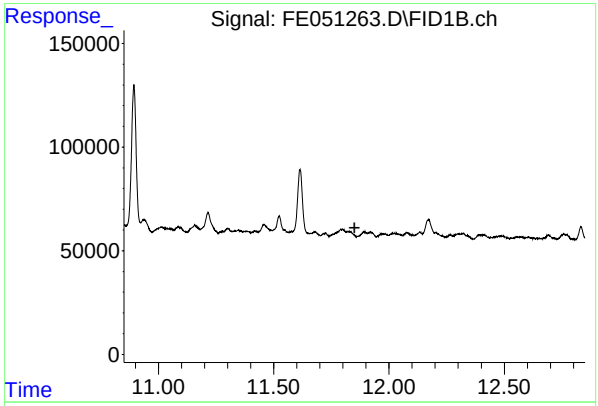
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051263.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 15:18
Operator : YP\AJ
Sample : P4839-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-10

Integration File: autoint1.e
Quant Time: Nov 16 08:18:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

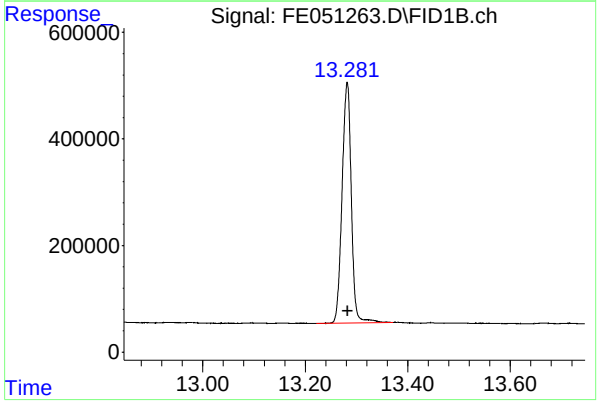




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-10



#12 1-chlorooctadecane (SURR)

R.T.: 13.282 min
Delta R.T.: -0.002 min
Response: 5636081
Conc: 49.64 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051263.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 15:18
Sample : P4839-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.252	3.214	3.272	BV	6072	-11289	-0.19%	-0.011%
2	3.286	3.272	3.326	PV	1357	15257	0.26%	0.014%
3	3.378	3.326	3.393	PV	10391	139390	2.40%	0.131%
4	3.405	3.393	3.428	VV	7944	95101	1.64%	0.089%
5	3.446	3.428	3.461	VV	13926	162035	2.79%	0.152%
6	3.477	3.461	3.505	VV	14187	197695	3.41%	0.185%
7	3.514	3.505	3.527	VV	3190	31547	0.54%	0.030%
8	3.547	3.527	3.559	VV	22084	235180	4.06%	0.220%
9	3.569	3.559	3.592	VV	18836	206651	3.56%	0.194%
10	3.626	3.592	3.661	VV	16407	281480	4.85%	0.264%
11	3.680	3.661	3.720	VV	39948	556519	9.60%	0.522%
12	3.761	3.720	3.796	VV	19221	467079	8.06%	0.438%
13	3.818	3.796	3.848	VV	6782	136153	2.35%	0.128%
14	3.865	3.848	3.894	VV	12939	135907	2.34%	0.127%
15	3.929	3.894	3.977	PV	23497	521612	9.00%	0.489%
16	4.026	4.001	4.074	BV	61618	578351	9.97%	0.542%
17	4.094	4.074	4.113	PV	12204	150088	2.59%	0.141%
18	4.136	4.113	4.158	VV	23730	284075	4.90%	0.266%
19	4.176	4.158	4.207	PV	8473	147094	2.54%	0.138%
20	4.227	4.207	4.241	VV	22345	260073	4.49%	0.244%
21	4.256	4.241	4.272	VV	21486	274945	4.74%	0.258%
22	4.287	4.272	4.339	VV	13882	285259	4.92%	0.267%
23	4.377	4.339	4.404	PV	20498	305748	5.27%	0.287%
24	4.425	4.404	4.450	VV	17471	290037	5.00%	0.272%
25	4.467	4.450	4.481	VV	8334	128806	2.22%	0.121%
26	4.493	4.481	4.532	VV	7511	149950	2.59%	0.141%
27	4.555	4.532	4.598	VV	10911	158591	2.74%	0.149%
28	4.616	4.598	4.625	VV	4156	45724	0.79%	0.043%
29	4.670	4.625	4.680	VV	18198	377320	6.51%	0.354%
30	4.694	4.680	4.721	VV	24580	455016	7.85%	0.427%
31	4.735	4.721	4.750	VV	22952	281273	4.85%	0.264%
32	4.769	4.750	4.783	VV	83580	879027	15.16%	0.824%
33	4.791	4.783	4.810	VV	43393	512259	8.83%	0.480%
34	4.828	4.810	4.864	VV	32166	709521	12.24%	0.665%
35	4.902	4.864	4.932	VV	39798	893140	15.40%	0.837%
36	4.946	4.932	4.974	VV	35553	535738	9.24%	0.502%

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37	4.992	4.974	5.030	VV	44186	640158	11.04%	0.600%
38	5.063	5.030	5.079	VV	14921	258842	4.46%	0.243%
39	5.098	5.079	5.139	VV	31097	590242	10.18%	0.553%
40	5.161	5.139	5.178	VV	62926	732838	12.64%	0.687%
41	5.194	5.178	5.216	VV	41728	485035	8.37%	0.455%
42	5.259	5.216	5.275	VV	32541	636796	10.98%	0.597%
43	5.284	5.275	5.294	VV	16357	162266	2.80%	0.152%
44	5.306	5.294	5.336	VV	15954	279495	4.82%	0.262%
45	5.367	5.336	5.380	PV	16913	262320	4.52%	0.246%
46	5.401	5.380	5.415	VV	38601	517951	8.93%	0.485%
47	5.423	5.415	5.436	VV	26839	287214	4.95%	0.269%
48	5.463	5.436	5.475	VV	26924	517699	8.93%	0.485%
49	5.493	5.475	5.510	VV	30042	517665	8.93%	0.485%
50	5.525	5.510	5.548	VV	26331	459663	7.93%	0.431%
51	5.559	5.548	5.574	VV	17186	218656	3.77%	0.205%
52	5.586	5.574	5.604	VV	16118	185034	3.19%	0.173%
53	5.632	5.604	5.651	VV	65956	820753	14.16%	0.769%
54	5.665	5.651	5.682	VV	23251	281054	4.85%	0.263%
55	5.697	5.682	5.728	VV	19099	334141	5.76%	0.313%
56	5.748	5.728	5.760	VV	19580	283050	4.88%	0.265%
57	5.801	5.760	5.842	VV	81396	2100751	36.23%	1.969%
58	5.851	5.842	5.859	VV	19777	179238	3.09%	0.168%
59	5.885	5.859	5.903	VV	44991	659153	11.37%	0.618%
60	5.928	5.903	5.967	VV	112438	1791739	30.90%	1.679%
61	5.989	5.967	6.019	VV	51120	781425	13.48%	0.732%
62	6.052	6.019	6.077	VV	33188	641598	11.07%	0.601%
63	6.101	6.077	6.118	PV	45251	477706	8.24%	0.448%
64	6.152	6.118	6.171	VV	56451	807450	13.93%	0.757%
65	6.204	6.171	6.230	VV	65430	1199589	20.69%	1.124%
66	6.252	6.230	6.271	VV	42733	603434	10.41%	0.566%
67	6.289	6.271	6.301	VV	22205	300649	5.19%	0.282%
68	6.313	6.301	6.323	VV	24300	267428	4.61%	0.251%
69	6.337	6.323	6.363	VV	28156	474651	8.19%	0.445%
70	6.383	6.363	6.411	VV	20792	393902	6.79%	0.369%
71	6.444	6.411	6.462	VV	34506	598810	10.33%	0.561%
72	6.477	6.462	6.505	VV	34189	613521	10.58%	0.575%
73	6.524	6.505	6.549	VV	50520	771964	13.31%	0.724%
74	6.575	6.549	6.590	VV	24076	496075	8.56%	0.465%
75	6.600	6.590	6.634	VV	20153	391207	6.75%	0.367%
76	6.684	6.634	6.701	VBA	24965	548564	9.46%	0.514%
77	6.747	6.701	6.761	BV	22859	382900	6.60%	0.359%
78	6.777	6.761	6.787	VV	38505	369181	6.37%	0.346%
79	6.807	6.787	6.829	VV	232750	2768289	47.74%	2.595%
80	6.840	6.829	6.863	VV	52924	721417	12.44%	0.676%
81	6.878	6.863	6.919	VV	50731	756367	13.04%	0.709%
82	6.939	6.919	6.958	VV	40329	589415	10.17%	0.552%
83	6.979	6.958	7.008	VV	78945	1298760	22.40%	1.217%
84	7.016	7.008	7.029	VV	23243	207695	3.58%	0.195%
85	7.047	7.029	7.090	VV	39303	701532	12.10%	0.658%
86	7.121	7.090	7.140	VV	38495	678080	11.69%	0.636%
87	7.183	7.140	7.203	VV	49821	1202371	20.74%	1.127%
88	7.225	7.203	7.253	VV	46578	757750	13.07%	0.710%
89	7.282	7.253	7.348	VV	34491	954623	16.46%	0.895%

90	7.373	7.348	7.408	VV	220845	2761429	47.62%	2.588%
91	7.428	7.408	7.448	VV	43480	666299	11.49%	0.625%
92	7.472	7.448	7.491	VV	63297	881280	15.20%	0.826%
93	7.515	7.491	7.530	VV	26565	573188	9.89%	0.537%
94	7.559	7.530	7.589	VV	39182	975047	16.82%	0.914%
95	7.600	7.589	7.620	VV	24081	359274	6.20%	0.337%
96	7.647	7.620	7.671	VV	31031	696605	12.01%	0.653%
97	7.725	7.671	7.746	VV	46790	1540602	26.57%	1.444%
98	7.773	7.746	7.800	VV	97375	1683673	29.04%	1.578%
99	7.815	7.800	7.838	VV	31577	450807	7.77%	0.423%
100	7.861	7.838	7.896	VV	37633	810939	13.99%	0.760%
101	7.938	7.896	7.955	VV	67486	1325481	22.86%	1.242%
102	7.968	7.955	8.006	VV	38038	706493	12.18%	0.662%
103	8.029	8.006	8.045	VV	46539	615559	10.62%	0.577%
104	8.061	8.045	8.072	VV	42835	539031	9.30%	0.505%
105	8.082	8.072	8.101	VV	44219	542830	9.36%	0.509%
106	8.127	8.101	8.146	VV	40660	718802	12.40%	0.674%
107	8.178	8.146	8.192	VV	34325	760062	13.11%	0.712%
108	8.208	8.192	8.250	VV	39274	828066	14.28%	0.776%
109	8.268	8.250	8.277	VV	25566	304935	5.26%	0.286%
110	8.298	8.277	8.324	VV	197139	2367986	40.84%	2.220%
111	8.346	8.324	8.369	VV	37205	738416	12.73%	0.692%
112	8.388	8.369	8.408	VV	40589	634949	10.95%	0.595%
113	8.443	8.408	8.464	VV	30419	900027	15.52%	0.844%
114	8.478	8.464	8.508	VV	34955	718734	12.40%	0.674%
115	8.527	8.508	8.550	VV	53906	818878	14.12%	0.768%
116	8.574	8.550	8.587	VV	36977	591442	10.20%	0.554%
117	8.597	8.587	8.609	VV	31971	380101	6.56%	0.356%
118	8.632	8.609	8.705	VV	84687	1962636	33.85%	1.840%
119	8.725	8.705	8.744	VV	28354	493357	8.51%	0.462%
120	8.770	8.744	8.795	VV	28141	659251	11.37%	0.618%
121	8.809	8.795	8.817	VV	19936	224403	3.87%	0.210%
122	8.836	8.817	8.885	VV	47861	1255215	21.65%	1.177%
123	8.901	8.885	8.913	VV	27790	395843	6.83%	0.371%
124	8.931	8.913	8.954	VV	66450	935634	16.14%	0.877%
125	8.972	8.954	8.981	VV	30264	397735	6.86%	0.373%
126	9.019	8.981	9.046	VV	173258	2568750	44.30%	2.408%
127	9.060	9.046	9.078	VV	19262	311697	5.38%	0.292%
128	9.095	9.078	9.118	VV	24665	390801	6.74%	0.366%
129	9.165	9.118	9.183	VV	28177	700861	12.09%	0.657%
130	9.195	9.183	9.210	VV	16004	231740	4.00%	0.217%
131	9.242	9.210	9.266	VV	29204	721837	12.45%	0.677%
132	9.283	9.266	9.301	VV	20835	413728	7.14%	0.388%
133	9.325	9.301	9.355	VV	21658	575876	9.93%	0.540%
134	9.388	9.355	9.412	VV	30529	602151	10.38%	0.564%
135	9.431	9.412	9.473	VV	16437	424695	7.32%	0.398%
136	9.508	9.473	9.520	VV	11853	238956	4.12%	0.224%
137	9.539	9.520	9.556	VV	15170	255980	4.41%	0.240%
138	9.566	9.556	9.573	VV	10738	102892	1.77%	0.096%
139	9.604	9.573	9.647	VV	16560	476078	8.21%	0.446%
140	9.677	9.647	9.720	VV	37031	848218	14.63%	0.795%
141	9.757	9.720	9.786	VV	27523	601736	10.38%	0.564%

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142	9.841	9.786	9.887	VV	22625	596378	10.29%	0.559%
143	9.919	9.887	9.954	VV	4495	131054	2.26%	0.123%
144	9.964	9.954	9.974	VV	2534	26988	0.47%	0.025%
145	9.998	9.974	10.014	VV	6831	118641	2.05%	0.111%
146	10.039	10.014	10.069	VV	22212	420507	7.25%	0.394%
147	10.085	10.069	10.105	VV	14085	198172	3.42%	0.186%
148	10.115	10.105	10.124	VV	6066	66581	1.15%	0.062%
149	10.145	10.124	10.175	VV	9686	256283	4.42%	0.240%
150	10.186	10.175	10.229	VV	9530	183637	3.17%	0.172%
151	10.259	10.229	10.275	VV	3838	72747	1.25%	0.068%
152	10.296	10.275	10.308	VV	5010	76684	1.32%	0.072%
153	10.315	10.308	10.339	VV	5051	66047	1.14%	0.062%
154	10.359	10.339	10.410	VV	5487	113246	1.95%	0.106%
155	10.432	10.410	10.443	VV	5171	65953	1.14%	0.062%
156	10.471	10.443	10.502	VV	64044	903750	15.59%	0.847%
157	10.547	10.502	10.598	VV	5765	235899	4.07%	0.221%
158	10.617	10.598	10.642	VV	6871	90352	1.56%	0.085%
159	10.657	10.642	10.690	PV	1290	18865	0.33%	0.018%
160	10.715	10.690	10.727	VV	2350	30451	0.53%	0.029%
161	10.752	10.727	10.780	VV	6651	112893	1.95%	0.106%
162	10.799	10.780	10.809	VV	5897	66193	1.14%	0.062%
163	10.821	10.809	10.861	VV	6226	132082	2.28%	0.124%
164	10.894	10.861	10.924	VV	70776	1034934	17.85%	0.970%
165	10.937	10.924	10.973	VV	5661	103764	1.79%	0.097%
166	11.013	10.973	11.045	PV	2358	72080	1.24%	0.068%
167	11.053	11.045	11.066	VV	1849	20522	0.35%	0.019%
168	11.086	11.066	11.124	VV	2703	57537	0.99%	0.054%
169	11.158	11.124	11.181	VV	3716	76823	1.32%	0.072%
170	11.215	11.181	11.260	VV	9798	196364	3.39%	0.184%
171	11.301	11.260	11.319	VV	2633	48096	0.83%	0.045%
172	11.347	11.319	11.365	VV	1758	38044	0.66%	0.036%
173	11.382	11.365	11.402	VV	1372	26885	0.46%	0.025%
174	11.418	11.402	11.431	VV	1522	22097	0.38%	0.021%
175	11.458	11.431	11.494	VV	4859	109045	1.88%	0.102%
176	11.524	11.494	11.567	VV	8925	167406	2.89%	0.157%
177	11.614	11.567	11.661	VV	31517	504650	8.70%	0.473%
178	11.678	11.661	11.703	VV	1834	27634	0.48%	0.026%
179	11.722	11.703	11.741	VV	1270	15016	0.26%	0.014%
180	11.796	11.741	11.817	VV	3230	83020	1.43%	0.078%
181	11.827	11.817	11.860	VV	2401	36888	0.64%	0.035%
182	11.892	11.860	11.907	VV	2389	35046	0.60%	0.033%
183	11.921	11.907	11.945	VV	2223	34246	0.59%	0.032%
184	11.976	11.945	11.998	VV	1451	34511	0.60%	0.032%
185	12.024	11.998	12.059	VV	1907	55754	0.96%	0.052%
186	12.077	12.059	12.110	VV	2385	51196	0.88%	0.048%
187	12.134	12.110	12.144	VV	2729	40581	0.70%	0.038%
188	12.171	12.144	12.246	VV	8810	218727	3.77%	0.205%
189	12.264	12.246	12.278	VV	1768	24072	0.42%	0.023%
190	12.320	12.278	12.366	VV	2608	86808	1.50%	0.081%
191	12.394	12.366	12.438	PV	2126	61240	1.06%	0.057%
192	12.487	12.438	12.523	VV	1743	62619	1.08%	0.059%
193	12.555	12.523	12.564	VV	1446	25604	0.44%	0.024%
194	12.573	12.564	12.594	VV	1478	24137	0.42%	0.023%

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195	12.603	12.594	12.636	VV	1428	27870	0.48%	0.026%
196	12.692	12.636	12.730	VV	2750	77382	1.33%	0.073%
197	12.758	12.730	12.811	VV	3133	93960	1.62%	0.088%
198	12.832	12.811	12.879	VV	7048	109944	1.90%	0.103%
199	12.889	12.879	12.909	VV	1057	15043	0.26%	0.014%
200	12.936	12.909	12.962	VV	1454	32761	0.57%	0.031%
201	12.977	12.962	13.041	VV	1592	24155	0.42%	0.023%
202	13.049	13.041	13.065	PV	139	1560	0.03%	0.001%
203	13.094	13.065	13.104	PV	819	9571	0.17%	0.009%
204	13.113	13.104	13.138	VV	662	7414	0.13%	0.007%
205	13.156	13.138	13.176	PV	733	9445	0.16%	0.009%
206	13.192	13.176	13.220	VV	382	6224	0.11%	0.006%
207	13.282	13.220	13.426	VV	452041	5798319	100.00%	5.435%
208	13.444	13.426	13.470	VV	1827	32349	0.56%	0.030%
209	13.487	13.470	13.504	VV	1168	21450	0.37%	0.020%
210	13.511	13.504	13.527	VV	1097	12400	0.21%	0.012%
211	13.542	13.527	13.589	VV	936	26386	0.46%	0.025%
212	13.605	13.589	13.628	VV	687	9934	0.17%	0.009%
213	13.665	13.628	13.691	VV	1442	27105	0.47%	0.025%
214	13.715	13.691	13.768	VV	1249	28649	0.49%	0.027%
215	13.778	13.768	13.797	VV	277	3396	0.06%	0.003%
216	13.823	13.797	13.835	VV	369	5608	0.10%	0.005%
217	13.880	13.835	13.913	VV	787	21588	0.37%	0.020%
218	13.939	13.913	13.959	VV	1141	19225	0.33%	0.018%
219	13.978	13.959	14.001	VV	1840	23949	0.41%	0.022%
220	14.028	14.001	14.069	VV	4953	70340	1.21%	0.066%
221	14.078	14.069	14.101	VV	456	5822	0.10%	0.005%
222	14.109	14.101	14.140	VV	396	4803	0.08%	0.005%
223	14.173	14.140	14.224	VV	430	8121	0.14%	0.008%
224	14.263	14.224	14.307	PV	1169	27663	0.48%	0.026%
225	14.329	14.307	14.370	VV	527	13929	0.24%	0.013%
226	14.433	14.370	14.447	PV	620	19292	0.33%	0.018%
227	14.471	14.447	14.508	VV	1822	33786	0.58%	0.032%
228	14.535	14.508	14.567	VV	850	19210	0.33%	0.018%
229	14.591	14.567	14.638	VV	2715	37845	0.65%	0.035%
230	14.661	14.638	14.691	VV	550	12407	0.21%	0.012%
231	14.713	14.691	14.771	VV	749	19436	0.34%	0.018%
232	14.784	14.771	14.804	VV	230	2301	0.04%	0.002%
233	14.837	14.804	14.860	VV	639	11225	0.19%	0.011%
234	14.877	14.860	14.922	VV	379	10063	0.17%	0.009%
235	14.938	14.922	14.953	VV	292	3294	0.06%	0.003%
236	14.969	14.953	15.020	VV	334	9493	0.16%	0.009%
237	15.046	15.020	15.064	VV	365	6089	0.11%	0.006%
238	15.087	15.064	15.104	VV	1507	20820	0.36%	0.020%
239	15.130	15.104	15.225	VV	6181	105439	1.82%	0.099%
240	15.281	15.225	15.306	PV	338	9979	0.17%	0.009%
241	15.320	15.306	15.348	VV	224	3439	0.06%	0.003%
242	15.380	15.348	15.395	VV	274	4872	0.08%	0.005%
243	15.403	15.395	15.421	VV	247	1600	0.03%	0.001%
244	15.436	15.421	15.452	VV	182	2575	0.04%	0.002%
245	15.465	15.452	15.497	VV	232	3719	0.06%	0.003%
246	15.559	15.497	15.577	PV	389	7419	0.13%	0.007%

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247	15.603	15.577	15.620	VV	365	6424	0.11%	0.006%
248	15.649	15.620	15.749	VV	4477	81371	1.40%	0.076%
249	15.781	15.749	15.816	PV	395	6697	0.12%	0.006%
250	15.867	15.816	15.881	PV	246	5915	0.10%	0.006%
251	15.892	15.881	15.921	VV	195	3185	0.05%	0.003%
252	15.968	15.921	15.988	VV	752	17201	0.30%	0.016%
253	15.998	15.988	16.063	VV	315	9518	0.16%	0.009%
254	16.112	16.063	16.125	PV	1299	20279	0.35%	0.019%
255	16.149	16.125	16.231	VV	6810	114328	1.97%	0.107%
256	16.238	16.231	16.264	VV	168	2435	0.04%	0.002%
257	16.347	16.264	16.378	VV	749	21504	0.37%	0.020%
258	16.397	16.378	16.414	VV	246	3351	0.06%	0.003%
259	16.467	16.414	16.494	VV	544	20470	0.35%	0.019%
260	16.506	16.494	16.524	VV	535	7769	0.13%	0.007%
261	16.535	16.524	16.557	VV	438	4663	0.08%	0.004%
262	16.632	16.557	16.666	PV	5455	88038	1.52%	0.083%
263	16.676	16.666	16.694	VV	314	3833	0.07%	0.004%
264	16.726	16.694	16.740	VV	215	4481	0.08%	0.004%
265	16.855	16.740	16.881	VV	481	30866	0.53%	0.029%
266	16.889	16.881	16.908	VV	346	4050	0.07%	0.004%
267	16.948	16.908	16.958	VV	539	11514	0.20%	0.011%
268	16.971	16.958	17.004	VV	549	8871	0.15%	0.008%
269	17.098	17.004	17.168	VV	7060	136155	2.35%	0.128%
270	17.195	17.168	17.245	VV	553	13070	0.23%	0.012%
271	17.336	17.245	17.366	PV	1984	40928	0.71%	0.038%
272	17.427	17.366	17.442	VV	322	10263	0.18%	0.010%
273	17.508	17.442	17.524	VV	1630	36335	0.63%	0.034%
274	17.548	17.524	17.601	VV	4940	82513	1.42%	0.077%
275	17.656	17.601	17.698	VV	1368	38479	0.66%	0.036%
276	17.712	17.698	17.720	VV	406	4143	0.07%	0.004%
277	17.744	17.720	17.763	VV	612	10292	0.18%	0.010%
278	17.778	17.763	17.791	VV	223	2896	0.05%	0.003%
279	17.831	17.791	17.854	PV	671	12465	0.21%	0.012%
280	17.876	17.854	17.906	VV	740	14720	0.25%	0.014%
281	17.926	17.906	17.934	VV	696	8895	0.15%	0.008%
282	17.984	17.934	18.010	VV	5777	107403	1.85%	0.101%
283	18.026	18.010	18.051	VV	878	16229	0.28%	0.015%
284	18.122	18.051	18.198	VV	4457	131085	2.26%	0.123%
285	18.232	18.198	18.243	VV	442	10534	0.18%	0.010%
286	18.266	18.243	18.275	VV	649	9466	0.16%	0.009%
287	18.282	18.275	18.287	VV	550	4049	0.07%	0.004%
288	18.326	18.287	18.348	VV	1240	29418	0.51%	0.028%
289	18.356	18.348	18.372	VV	673	9126	0.16%	0.009%
290	18.407	18.372	18.444	VV	4526	79378	1.37%	0.074%
291	18.490	18.444	18.541	VV	5980	114492	1.97%	0.107%
292	18.557	18.541	18.594	VV	483	9280	0.16%	0.009%
293	18.609	18.594	18.620	PV	328	4506	0.08%	0.004%
294	18.651	18.620	18.663	VV	839	13918	0.24%	0.013%
295	18.672	18.663	18.724	VV	628	12870	0.22%	0.012%
296	18.816	18.724	18.858	VV	5233	96505	1.66%	0.090%
297	18.863	18.858	18.878	VV	275	2479	0.04%	0.002%
298	18.911	18.878	18.937	PV	1681	23021	0.40%	0.022%
299	18.961	18.937	18.985	VV	1184	17127	0.30%	0.016%

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300	18.995	18.985	19.002	VV	276	2000	0.03%	0.002%
301	19.044	19.002	19.058	VV	248	4602	0.08%	0.004%
302	19.094	19.058	19.117	VV	595	14943	0.26%	0.014%
303	19.213	19.117	19.277	VV	3638	84143	1.45%	0.079%
304	19.313	19.277	19.334	PV	986	15938	0.27%	0.015%
305	19.345	19.334	19.355	VV	395	3917	0.07%	0.004%
306	19.418	19.355	19.429	VV	722	22740	0.39%	0.021%
307	19.460	19.429	19.478	VV	595	14256	0.25%	0.013%
308	19.600	19.478	19.664	VV	4501	121810	2.10%	0.114%
309	19.716	19.664	19.748	VV	930	24250	0.42%	0.023%
310	19.892	19.748	19.902	VV	1358	56268	0.97%	0.053%
311	19.974	19.902	19.998	VV	3357	100075	1.73%	0.094%
312	20.020	19.998	20.068	VV	1498	47599	0.82%	0.045%
313	20.218	20.068	20.230	VV	3177	168003	2.90%	0.157%
314	20.242	20.230	20.262	VV	2858	50501	0.87%	0.047%
315	20.340	20.262	20.366	VV	5988	207316	3.58%	0.194%
316	20.412	20.366	20.424	VV	3752	121074	2.09%	0.113%
317	20.614	20.424	20.624	VV	4493	462473	7.98%	0.433%
318	20.695	20.624	20.724	VV	6721	315202	5.44%	0.295%
319	20.731	20.724	20.741	VV	5356	53682	0.93%	0.050%
320	20.914	20.741	20.941	VV	6419	698420	12.05%	0.655%
321	20.979	20.941	20.986	VV	5879	159877	2.76%	0.150%
322	21.060	20.986	21.112	VV	8604	479639	8.27%	0.450%
323	21.153	21.112	21.171	VV	5285	183923	3.17%	0.172%
324	21.205	21.171	21.237	VV	5026	194395	3.35%	0.182%
325	21.332	21.237	21.344	VV	4568	300764	5.19%	0.282%
326	21.389	21.344	21.401	VV	4463	149560	2.58%	0.140%
327	21.416	21.401	21.434	VV	4357	86739	1.50%	0.081%
328	21.475	21.434	21.521	VV	5069	230946	3.98%	0.216%
329	21.530	21.521	21.540	VV	3860	42574	0.73%	0.040%
330	21.608	21.540	21.618	VV	3673	175054	3.02%	0.164%
331	21.654	21.618	21.677	VV	3458	119263	2.06%	0.112%
332	21.698	21.677	21.740	VV	3019	107533	1.85%	0.101%
333	21.773	21.740	21.788	VV	2667	75369	1.30%	0.071%
334	21.847	21.788	21.888	VV	2222	128681	2.22%	0.121%
335	21.941	21.888	22.009	VV	5322	196838	3.39%	0.185%
336	22.018	22.009	22.031	VV	975	12328	0.21%	0.012%
337	22.116	22.031	22.131	VV	686	40451	0.70%	0.038%
338	22.174	22.131	22.201	VBA	314	22725	0.39%	0.021%

Sum of corrected areas: 106685546

Aliphatic EPH 110724.M Sat Nov 16 11:24:27 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-10		SDG No.:	P4839	
Lab Sample ID:	P4839-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.4	
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
FE051301.D	5	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	28.0		2.17	5.70	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	53.1		1.37	3.80	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.23		1.71	5.70	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	4.56	U	4.56	7.60	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.74	J	10.3	11.4	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	10.1		40 - 140	101%	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:	P4839-02DL	Acq On:	18 Nov 2024 09:51
Client Sample ID:	P4839-02DL	Operator:	YP\AJ
Data file:	FE051301.D	Misc:	
Instrument:	FID_E	ALS Vial:	7
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.758	10301323	73.626	300	ug/ml
Aliphatic C12-C16	6.759	10.191	19642870	139.672	200	ug/ml
Aliphatic C16-C21	10.192	13.551	2980419	21.634	300	ug/ml
Aliphatic C21-C28	13.552	17.208	524049	3.912	400	ug/ml
Aliphatic C28-C40	17.209	22.059	1265571	9.83	600	ug/ml
Aliphatic EPH	3.139	22.059	34714232	248.673		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	1146674	10.1		ug/ml
Aliphatic C9-C28	3.139	17.208	33448661	238.844	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051301.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 09:51
Operator : YP\AJ
Sample : P4839-02DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-10DL

Integration File: autoint1.e
Quant Time: Nov 19 02:48:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.286	1146674	10.100 ug/ml
Spiked Amount 50.000		Recovery = 20.20%	
Target Compounds			

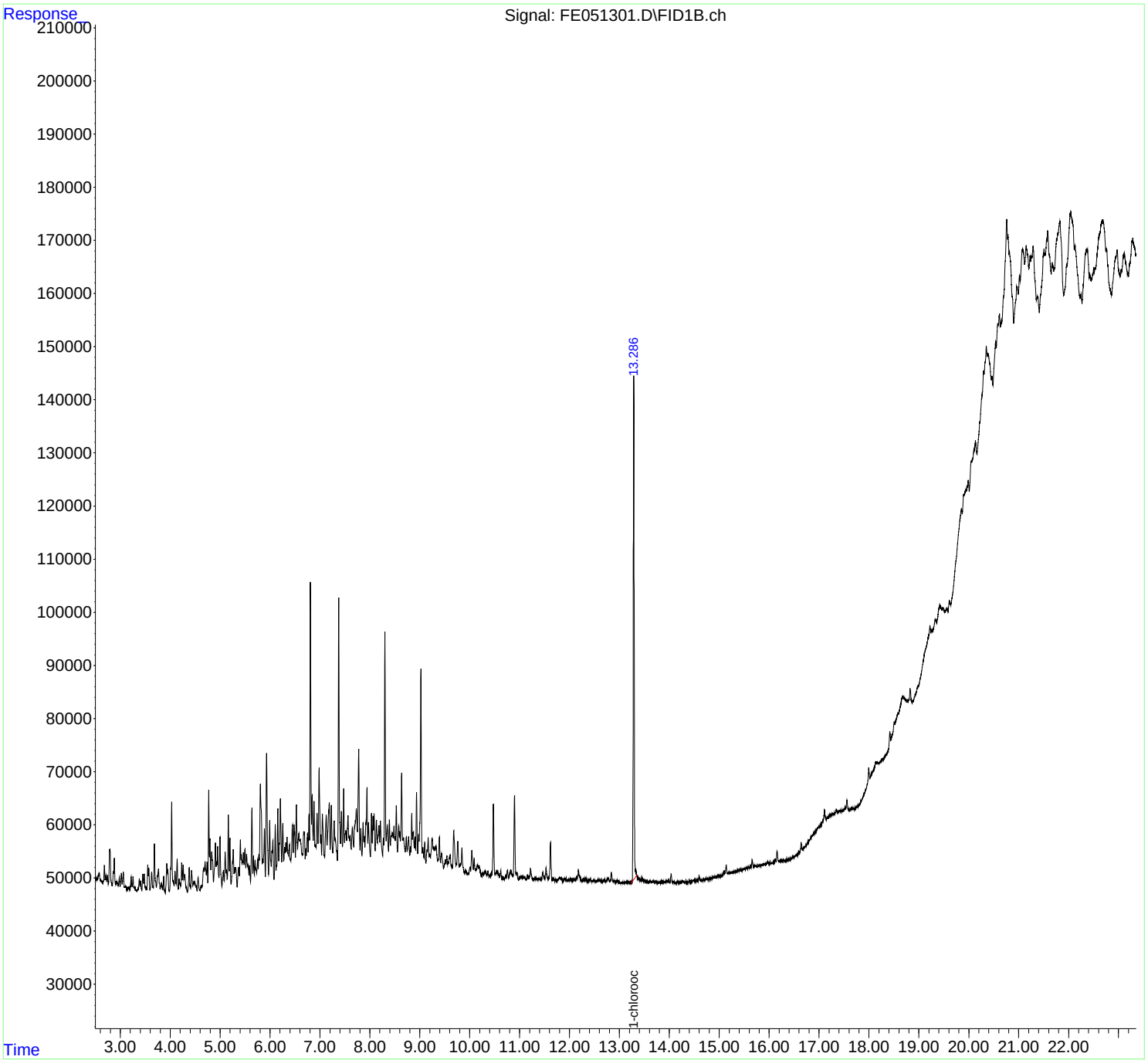
(f)=RT Delta > 1/2 Window (m)=manual int.

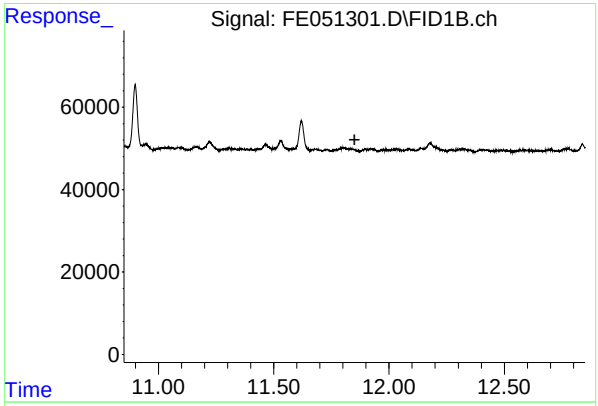
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051301.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 09:51
Operator : YP\AJ
Sample : P4839-02DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-10DL

Integration File: autoint1.e
Quant Time: Nov 19 02:48:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

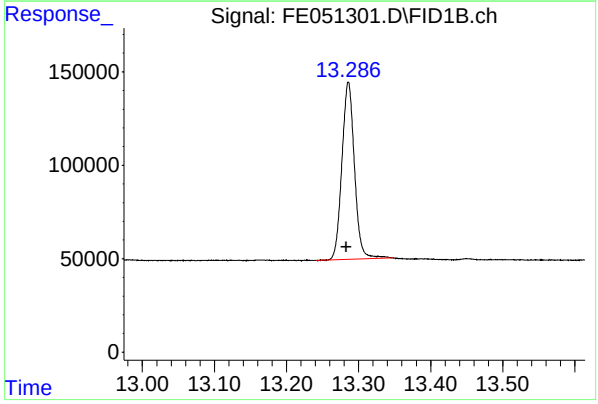




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-10DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: 0.003 min
Response: 1146674
Conc: 10.10 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051301.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 09:51
Sample : P4839-02DL 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.254	3.214	3.274	BV	1438	1002	0.08%	0.003%
2	3.287	3.274	3.332	PV	240	2561	0.21%	0.007%
3	3.380	3.332	3.395	PV	2260	32882	2.68%	0.091%
4	3.408	3.395	3.428	VV	1844	22131	1.80%	0.062%
5	3.449	3.428	3.464	VV	3154	38158	3.11%	0.106%
6	3.479	3.464	3.508	VV	3209	46678	3.80%	0.130%
7	3.517	3.508	3.529	VV	797	7458	0.61%	0.021%
8	3.550	3.529	3.562	VV	4936	53789	4.38%	0.150%
9	3.571	3.562	3.595	VV	4299	47996	3.91%	0.134%
10	3.628	3.595	3.664	VV	3667	65679	5.35%	0.183%
11	3.683	3.664	3.722	VV	8871	125169	10.19%	0.348%
12	3.764	3.722	3.801	VV	4245	106727	8.69%	0.297%
13	3.821	3.801	3.852	VV	1567	31984	2.60%	0.089%
14	3.869	3.852	3.897	VV	2898	30722	2.50%	0.085%
15	3.932	3.897	3.981	PV	5308	118939	9.69%	0.331%
16	4.029	3.981	4.077	VV	16657	256426	20.88%	0.713%
17	4.097	4.077	4.116	VV	3803	57746	4.70%	0.161%
18	4.138	4.116	4.160	VV	6129	82790	6.74%	0.230%
19	4.179	4.160	4.210	VV	2438	47530	3.87%	0.132%
20	4.230	4.210	4.244	VV	5386	65433	5.33%	0.182%
21	4.259	4.244	4.275	VV	5078	66358	5.40%	0.185%
22	4.290	4.275	4.344	VV	3224	67466	5.49%	0.188%
23	4.380	4.344	4.406	PV	4572	68695	5.59%	0.191%
24	4.428	4.406	4.453	VV	3981	66731	5.43%	0.186%
25	4.471	4.453	4.482	VV	1931	28545	2.32%	0.079%
26	4.494	4.482	4.512	VV	1751	27279	2.22%	0.076%
27	4.519	4.512	4.536	VV	1252	12047	0.98%	0.034%
28	4.558	4.536	4.598	VV	2643	41747	3.40%	0.116%
29	4.618	4.598	4.628	VV	1142	13493	1.10%	0.038%
30	4.669	4.628	4.684	VV	4291	92232	7.51%	0.257%
31	4.698	4.684	4.724	VV	5671	106570	8.68%	0.297%
32	4.739	4.724	4.753	VV	5446	69374	5.65%	0.193%
33	4.772	4.753	4.786	VV	19041	201054	16.37%	0.559%
34	4.795	4.786	4.814	VV	9953	122042	9.94%	0.340%
35	4.831	4.814	4.867	VV	7482	169819	13.83%	0.472%
36	4.905	4.867	4.938	VV	9127	222287	18.10%	0.618%

rteres

37	4.950	4.938	4.976	VV	8432	122399	9.97%	0.341%
38	4.997	4.976	5.035	VV	10301	165233	13.46%	0.460%
39	5.066	5.035	5.082	VV	3949	74241	6.05%	0.207%
40	5.101	5.082	5.142	VV	7399	154490	12.58%	0.430%
41	5.165	5.142	5.182	VV	14394	176943	14.41%	0.492%
42	5.197	5.182	5.219	VV	10021	123780	10.08%	0.344%
43	5.263	5.219	5.279	VV	7807	167985	13.68%	0.467%
44	5.288	5.279	5.298	VV	4403	45346	3.69%	0.126%
45	5.310	5.298	5.340	VV	4386	81306	6.62%	0.226%
46	5.371	5.340	5.385	VV	4478	81455	6.63%	0.227%
47	5.406	5.385	5.419	VV	9638	135369	11.02%	0.377%
48	5.427	5.419	5.440	VV	6805	73153	5.96%	0.204%
49	5.467	5.440	5.479	VV	7146	138196	11.26%	0.384%
50	5.497	5.479	5.514	VV	7864	138147	11.25%	0.384%
51	5.530	5.514	5.578	VV	6909	193309	15.74%	0.538%
52	5.590	5.578	5.608	VV	4696	63444	5.17%	0.177%
53	5.637	5.608	5.656	VV	15591	219462	17.87%	0.611%
54	5.669	5.656	5.685	VV	6482	85216	6.94%	0.237%
55	5.701	5.685	5.731	VV	5731	115726	9.43%	0.322%
56	5.751	5.731	5.763	VV	5852	91135	7.42%	0.254%
57	5.807	5.763	5.846	VV	19969	545604	44.44%	1.518%
58	5.888	5.846	5.906	VV	11704	248531	20.24%	0.691%
59	5.931	5.906	5.971	VV	25757	468426	38.15%	1.303%
60	5.993	5.971	6.023	VV	13209	234046	19.06%	0.651%
61	6.056	6.023	6.080	VV	9533	212212	17.28%	0.590%
62	6.105	6.080	6.122	VV	12403	164080	13.36%	0.457%
63	6.156	6.122	6.175	VV	15358	257956	21.01%	0.718%
64	6.208	6.175	6.233	VV	17233	361654	29.45%	1.006%
65	6.256	6.233	6.274	VV	12528	211668	17.24%	0.589%
66	6.293	6.274	6.304	VV	8015	127204	10.36%	0.354%
67	6.316	6.304	6.327	VV	8891	110998	9.04%	0.309%
68	6.342	6.327	6.367	VV	9965	194137	15.81%	0.540%
69	6.388	6.367	6.414	VV	8601	196124	15.97%	0.546%
70	6.448	6.414	6.466	VV	12207	266425	21.70%	0.741%
71	6.482	6.466	6.508	VV	12209	250683	20.42%	0.697%
72	6.528	6.508	6.553	VV	15976	295558	24.07%	0.822%
73	6.577	6.553	6.598	VV	10683	255604	20.82%	0.711%
74	6.603	6.598	6.652	VV	9363	261872	21.33%	0.729%
75	6.687	6.652	6.705	VV	10968	285089	23.22%	0.793%
76	6.716	6.705	6.726	VV	7738	89373	7.28%	0.249%
77	6.750	6.726	6.765	VV	10683	200205	16.31%	0.557%
78	6.780	6.765	6.790	VV	14098	167585	13.65%	0.466%
79	6.809	6.790	6.832	VV	57829	755813	61.56%	2.103%
80	6.844	6.832	6.866	VV	17933	277188	22.57%	0.771%
81	6.882	6.866	6.908	VV	16660	281244	22.91%	0.782%
82	6.943	6.908	6.961	VV	14335	331429	26.99%	0.922%
83	6.983	6.961	7.012	VV	22801	449937	36.64%	1.252%
84	7.020	7.012	7.033	VV	10436	115815	9.43%	0.322%
85	7.051	7.033	7.094	VV	14039	345654	28.15%	0.962%
86	7.125	7.094	7.144	VV	13896	310071	25.25%	0.863%
87	7.186	7.144	7.206	VV	16415	458025	37.30%	1.274%
88	7.228	7.206	7.257	VV	15841	324842	26.46%	0.904%
89	7.285	7.257	7.350	VV	12845	492760	40.13%	1.371%

90	7.377	7.350	7.412	VV	55014	803183	65.41%	2.235%
91	7.432	7.412	7.452	VV	14629	266593	21.71%	0.742%
92	7.476	7.452	7.494	VV	18938	317018	25.82%	0.882%
93	7.520	7.494	7.535	VV	11061	249264	20.30%	0.694%
94	7.563	7.535	7.593	VV	13786	381019	31.03%	1.060%
95	7.605	7.593	7.624	VV	10170	169550	13.81%	0.472%
96	7.651	7.624	7.676	VV	11559	301049	24.52%	0.838%
97	7.730	7.676	7.750	VV	14924	540505	44.02%	1.504%
98	7.777	7.750	7.803	VV	26278	516274	42.05%	1.436%
99	7.819	7.803	7.842	VV	11368	202513	16.49%	0.563%
100	7.865	7.842	7.902	VV	12525	336592	27.41%	0.936%
101	7.942	7.902	7.959	VV	18916	438032	35.67%	1.219%
102	7.973	7.959	8.010	VV	12409	286002	23.29%	0.796%
103	8.033	8.010	8.049	VV	14168	234610	19.11%	0.653%
104	8.065	8.049	8.075	VV	13549	182914	14.90%	0.509%
105	8.086	8.075	8.106	VV	14221	198785	16.19%	0.553%
106	8.132	8.106	8.150	VV	12872	268667	21.88%	0.748%
107	8.182	8.150	8.197	VV	11780	281288	22.91%	0.783%
108	8.212	8.197	8.255	VV	12690	322158	26.24%	0.896%
109	8.273	8.255	8.281	VV	9402	126169	10.28%	0.351%
110	8.302	8.281	8.328	VV	48059	636091	51.81%	1.770%
111	8.349	8.328	8.374	VV	11866	272817	22.22%	0.759%
112	8.392	8.374	8.412	VV	12935	228380	18.60%	0.635%
113	8.448	8.412	8.471	VV	10384	345164	28.11%	0.960%
114	8.483	8.471	8.512	VV	11773	246530	20.08%	0.686%
115	8.531	8.512	8.554	VV	15531	280629	22.86%	0.781%
116	8.579	8.554	8.613	VV	11771	342388	27.89%	0.953%
117	8.637	8.613	8.709	VV	21674	638758	52.02%	1.777%
118	8.730	8.709	8.747	VV	9644	185503	15.11%	0.516%
119	8.776	8.747	8.800	VV	9526	253544	20.65%	0.705%
120	8.840	8.800	8.854	VV	13989	297178	24.20%	0.827%
121	8.869	8.854	8.890	VV	10379	205131	16.71%	0.571%
122	8.905	8.890	8.918	VV	9502	140678	11.46%	0.391%
123	8.936	8.918	8.960	VV	17849	289704	23.59%	0.806%
124	8.978	8.960	8.987	VV	9988	142246	11.58%	0.396%
125	9.023	8.987	9.050	VV	41134	692394	56.39%	1.926%
126	9.063	9.050	9.082	VV	7569	129774	10.57%	0.361%
127	9.100	9.082	9.123	VV	8330	161959	13.19%	0.451%
128	9.169	9.123	9.188	VV	9425	270618	22.04%	0.753%
129	9.201	9.188	9.214	VV	6292	94558	7.70%	0.263%
130	9.247	9.214	9.303	VV	9239	407810	33.21%	1.135%
131	9.325	9.303	9.358	VV	7748	223894	18.23%	0.623%
132	9.393	9.358	9.417	VV	9437	231899	18.89%	0.645%
133	9.438	9.417	9.478	VV	6260	190015	15.48%	0.529%
134	9.513	9.478	9.526	VV	5178	128311	10.45%	0.357%
135	9.544	9.526	9.561	VV	5941	110186	8.97%	0.307%
136	9.572	9.561	9.579	VV	4776	48594	3.96%	0.135%
137	9.610	9.579	9.653	VV	6142	214367	17.46%	0.596%
138	9.681	9.653	9.728	VV	10649	295920	24.10%	0.823%
139	9.763	9.728	9.792	VV	8605	219259	17.86%	0.610%
140	9.845	9.792	9.891	VV	7368	265379	21.61%	0.738%
141	9.926	9.891	9.958	VV	3077	112917	9.20%	0.314%

142	9.967	9.958	9.981	VV	2623	35104	2.86%	0.098%
143	10.005	9.981	10.020	VV	3668	75954	6.19%	0.211%
144	10.044	10.020	10.074	VV	6860	156197	12.72%	0.435%
145	10.090	10.074	10.112	VV	5205	95180	7.75%	0.265%
146	10.121	10.112	10.131	VV	3381	36383	2.96%	0.101%
147	10.154	10.131	10.180	VV	3956	111829	9.11%	0.311%
148	10.191	10.180	10.232	VV	3985	97080	7.91%	0.270%
149	10.264	10.232	10.280	VV	2574	66191	5.39%	0.184%
150	10.302	10.280	10.344	VV	2919	99953	8.14%	0.278%
151	10.365	10.344	10.390	VV	2911	65622	5.34%	0.183%
152	10.406	10.390	10.414	VV	2067	29494	2.40%	0.082%
153	10.437	10.414	10.448	VV	2758	47301	3.85%	0.132%
154	10.476	10.448	10.506	VV	15456	253774	20.67%	0.706%
155	10.546	10.506	10.601	VV	2762	140874	11.47%	0.392%
156	10.623	10.601	10.648	VV	3014	60373	4.92%	0.168%
157	10.666	10.648	10.691	VV	1698	39629	3.23%	0.110%
158	10.757	10.691	10.784	VV	2963	110061	8.96%	0.306%
159	10.828	10.784	10.868	VV	3060	113942	9.28%	0.317%
160	10.899	10.868	10.931	VV	16984	276444	22.51%	0.769%
161	10.944	10.931	10.979	VV	2615	57516	4.68%	0.160%
162	11.042	10.979	11.070	VV	1759	85569	6.97%	0.238%
163	11.088	11.070	11.128	VV	1704	52726	4.29%	0.147%
164	11.165	11.128	11.187	VV	1919	55916	4.55%	0.156%
165	11.221	11.187	11.264	VV	3221	92541	7.54%	0.257%
166	11.283	11.264	11.290	VV	1312	19484	1.59%	0.054%
167	11.307	11.290	11.344	VV	1584	44241	3.60%	0.123%
168	11.357	11.344	11.378	VV	1394	25440	2.07%	0.071%
169	11.395	11.378	11.412	VV	1257	24603	2.00%	0.068%
170	11.464	11.412	11.493	VV	2451	77340	6.30%	0.215%
171	11.530	11.493	11.590	VV	3375	105539	8.60%	0.294%
172	11.620	11.590	11.658	VV	8127	144352	11.76%	0.402%
173	11.683	11.658	11.710	VV	1238	33615	2.74%	0.094%
174	11.728	11.710	11.751	VV	1120	23765	1.94%	0.066%
175	11.801	11.751	11.868	VV	1489	83084	6.77%	0.231%
176	11.897	11.868	11.909	VV	1272	24421	1.99%	0.068%
177	11.930	11.909	11.952	VV	1271	28732	2.34%	0.080%
178	11.975	11.952	12.008	VV	1063	32078	2.61%	0.089%
179	12.037	12.008	12.066	VV	1186	36090	2.94%	0.100%
180	12.085	12.066	12.116	VV	1175	30769	2.51%	0.086%
181	12.139	12.116	12.154	VV	1417	26843	2.19%	0.075%
182	12.178	12.154	12.251	VV	2654	87873	7.16%	0.244%
183	12.270	12.251	12.291	VV	985	20643	1.68%	0.057%
184	12.323	12.291	12.374	VV	1193	46395	3.78%	0.129%
185	12.404	12.374	12.454	VV	1044	39164	3.19%	0.109%
186	12.482	12.454	12.490	VV	820	16702	1.36%	0.046%
187	12.498	12.490	12.547	VV	867	23500	1.91%	0.065%
188	12.584	12.547	12.607	VV	861	28136	2.29%	0.078%
189	12.614	12.607	12.642	VV	850	15175	1.24%	0.042%
190	12.651	12.642	12.667	VV	715	10351	0.84%	0.029%
191	12.699	12.667	12.738	VV	1015	32326	2.63%	0.090%
192	12.778	12.738	12.800	VV	1218	33833	2.76%	0.094%
193	12.839	12.800	12.918	VV	2301	62849	5.12%	0.175%
194	12.943	12.918	12.969	VV	744	17468	1.42%	0.049%

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195	12.982	12.969	13.022	VV	585	12733	1.04%	0.035%
196	13.031	13.022	13.076	VV	289	8378	0.68%	0.023%
197	13.103	13.076	13.143	VV	392	12541	1.02%	0.035%
198	13.164	13.143	13.183	VV	472	8412	0.69%	0.023%
199	13.196	13.183	13.244	VV	371	10783	0.88%	0.030%
200	13.286	13.244	13.377	VV	95386	1227855	100.00%	3.416%
201	13.389	13.377	13.434	VV	1109	28939	2.36%	0.081%
202	13.451	13.434	13.475	VV	1163	20185	1.64%	0.056%
203	13.494	13.475	13.535	VV	620	20302	1.65%	0.056%
204	13.545	13.535	13.598	VV	471	15409	1.25%	0.043%
205	13.620	13.598	13.645	VV	482	11080	0.90%	0.031%
206	13.673	13.645	13.700	VV	572	13000	1.06%	0.036%
207	13.728	13.700	13.776	VV	494	14147	1.15%	0.039%
208	17.107	16.667	17.141	VV	4758	485822	39.57%	1.352%
209	17.348	17.141	17.368	VV	3102	388208	31.62%	1.080%
210	17.379	17.368	17.385	VV	2668	26199	2.13%	0.073%
211	17.477	17.385	17.499	VV	2302	162670	13.25%	0.453%
212	17.521	17.499	17.533	VV	2414	46474	3.78%	0.129%
213	17.557	17.533	17.608	VV	3617	103451	8.43%	0.288%
214	17.663	17.608	17.701	VV	1427	74832	6.09%	0.208%
215	17.994	17.701	18.021	VV	6691	463737	37.77%	1.290%

Sum of corrected areas: 35942081

Aliphatic EPH 110724.M Tue Nov 19 08:26:46 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-11			SDG No.:	P4839
Lab Sample ID:	P4839-03			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	86.4
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 10:21	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	41.7		5	2.19	5.77	mg/kg	FE051302.D
Aliphatic C12-C16	Aliphatic C12-C16	69.2		5	1.39	3.85	mg/kg	FE051302.D
Aliphatic C16-C21	Aliphatic C16-C21	3.97		1	0.35	1.15	mg/kg	FE051264.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.54	mg/kg	FE051264.D
Aliphatic C28-C40	Aliphatic C28-C40	4.51		1	2.08	2.31	mg/kg	FE051264.D
Aromatic C10-C12	Aromatic C10-C12	8.82		1	0.35	0.77	mg/kg	FF015056.D
Aromatic C12-C16	Aromatic C12-C16	18.8		1	0.39	1.15	mg/kg	FF015056.D
Aromatic C16-C21	Aromatic C16-C21	9.66		1	1.11	1.92	mg/kg	FF015056.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.08	mg/kg	FF015056.D
Total AliphaticEPH	Total AliphaticEPH	119			6.93	14.6	mg/kg	
Total AromaticEPH	Total AromaticEPH	37.3			4.16	6.92	mg/kg	
Total EPH	Total EPH	157			11.1	21.5	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-11			SDG No.:	P4839
Lab Sample ID:	P4839-03			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	86.4
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 10:21	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	41.7		5	2.19	5.77	mg/kg	FE051302.D
Aliphatic C12-C16	Aliphatic C12-C16	69.2		5	1.39	3.85	mg/kg	FE051302.D
Aliphatic C16-C21	Aliphatic C16-C21	3.97		1	0.35	1.15	mg/kg	FE051264.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.54	mg/kg	FE051264.D
Aliphatic C28-C40	Aliphatic C28-C40	4.51		1	2.08	2.31	mg/kg	FE051264.D
Aromatic C10-C12	Aromatic C10-C12	8.82		1	0.35	0.77	mg/kg	FF015056.D
Aromatic C12-C16	Aromatic C12-C16	18.8		1	0.39	1.15	mg/kg	FF015056.D
Aromatic C16-C21	Aromatic C16-C21	9.66		1	1.11	1.92	mg/kg	FF015056.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.08	mg/kg	FF015056.D
Total AliphaticEPH	Total AliphaticEPH	119			6.93	14.6	mg/kg	
Total AromaticEPH	Total AromaticEPH	37.3			4.16	6.92	mg/kg	
Total EPH	Total EPH	157			11.1	21.5	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-11		SDG No.:	P4839	
Lab Sample ID:	P4839-03		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051264.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	34.4	E	0.44	1.15	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	57.5	E	0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	3.97		0.35	1.15	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	0.92	1.54	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.51		2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.3		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-03	Acq On:	15 Nov 2024 15:48
Client Sample ID:	EX-9-TPH-11	Operator:	YP\AJ
Data file:	FE051264.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	62570120	447.202	300	ug/ml
Aliphatic C12-C16	6.754	10.185	105058812	747.029	200	ug/ml
Aliphatic C16-C21	10.186	13.544	7096959	51.514	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1417879	10.585	400	ug/ml
Aliphatic C28-C40	17.201	22.043	7540223	58.566	600	ug/ml
Aliphatic EPH	3.134	22.043	183683993	1310		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	3437228	30.28		ug/ml
Aliphatic C9-C28	3.134	17.200	176143770	1260	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051264.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 15:48
Operator : YP\AJ
Sample : P4839-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-11

Integration File: autoint1.e
Quant Time: Nov 16 08:18:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	3437228	30.276 ug/ml
Spiked Amount 50.000		Recovery = 60.55%	
Target Compounds			

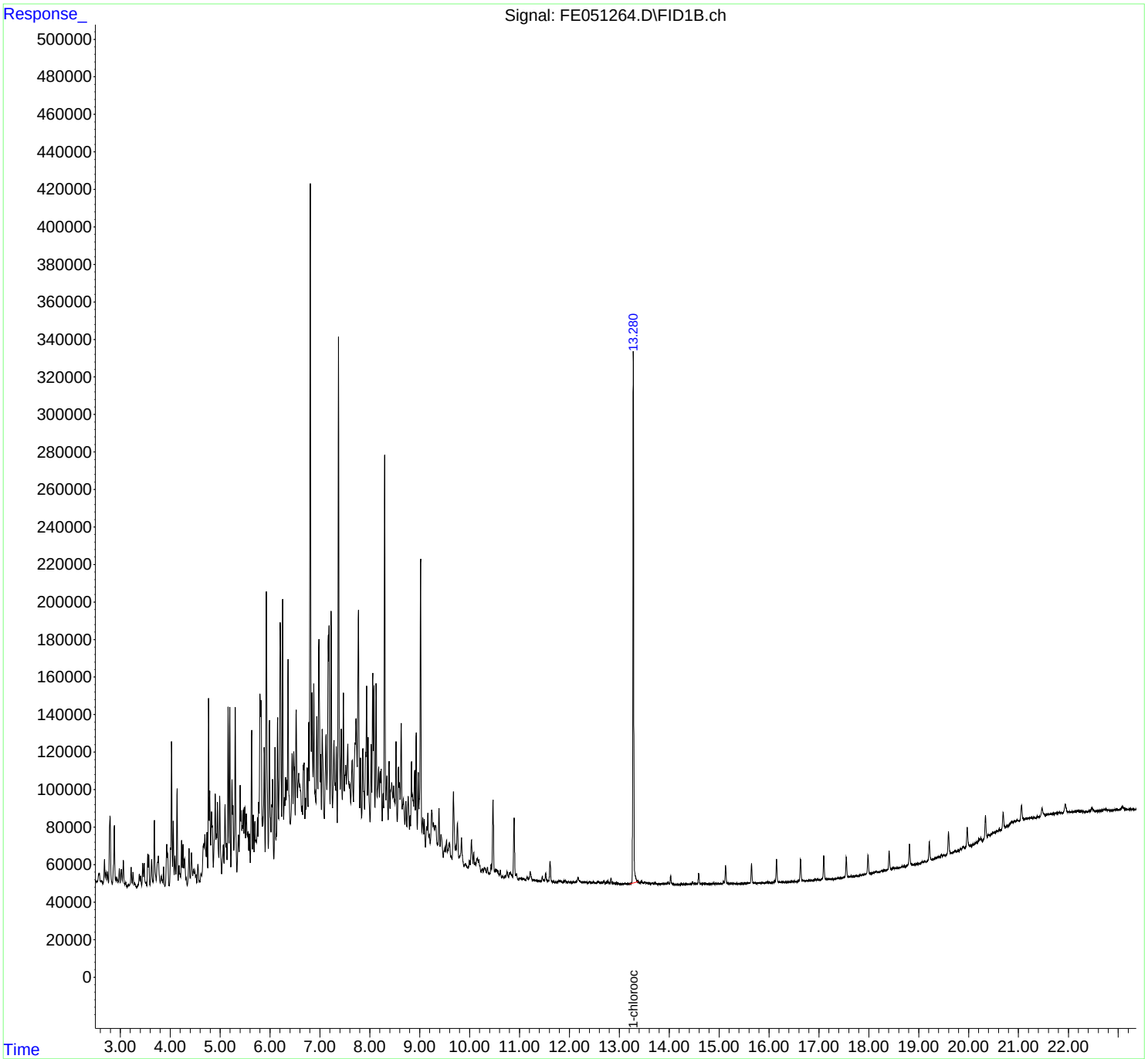
(f)=RT Delta > 1/2 Window (m)=manual int.

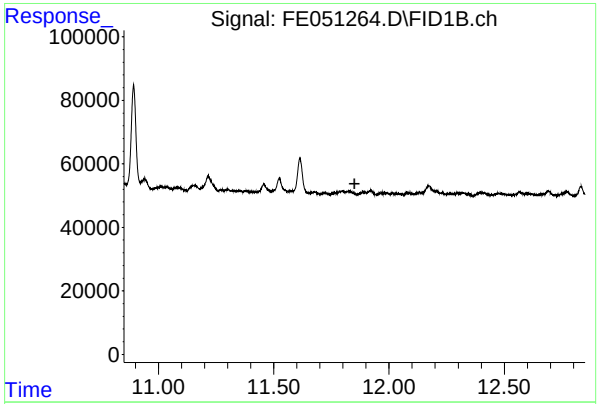
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051264.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 15:48
Operator : YP\AJ
Sample : P4839-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-11

Integration File: autoint1.e
Quant Time: Nov 16 08:18:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

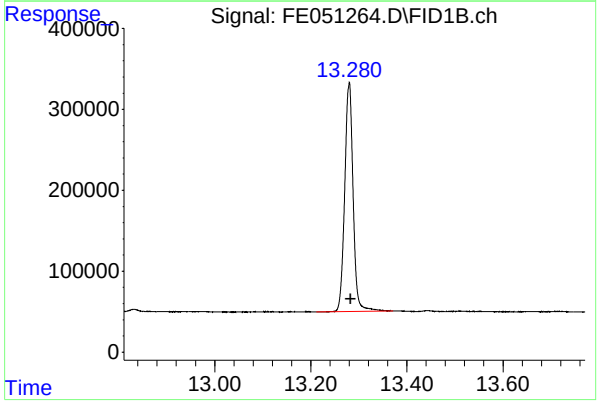




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-11



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 3437228
Conc: 30.28 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051264.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 15:48
Sample : P4839-03
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.254	3.214	3.275	BV	3622	-25902	-0.68%	-0.022%
2	3.290	3.275	3.331	PV	1174	12390	0.32%	0.011%
3	3.380	3.331	3.395	PV	7062	103867	2.72%	0.089%
4	3.407	3.395	3.427	VV	6034	72982	1.91%	0.062%
5	3.448	3.427	3.462	VV	12680	143249	3.75%	0.122%
6	3.478	3.462	3.531	VV	12578	203069	5.32%	0.173%
7	3.549	3.531	3.560	VV	17534	183332	4.80%	0.156%
8	3.571	3.560	3.593	VV	17159	189102	4.96%	0.161%
9	3.627	3.593	3.660	VV	14565	245398	6.43%	0.209%
10	3.682	3.660	3.719	VV	35439	480243	12.59%	0.410%
11	3.762	3.719	3.799	VV	16161	440605	11.55%	0.376%
12	3.820	3.799	3.850	VV	5536	110379	2.89%	0.094%
13	3.867	3.850	3.894	VV	10472	111999	2.94%	0.096%
14	3.930	3.894	3.942	PV	22105	296778	7.78%	0.253%
15	3.948	3.942	3.981	VV	16888	185613	4.86%	0.158%
16	4.027	4.001	4.046	BV	65158	628386	16.47%	0.536%
17	4.061	4.046	4.080	VV	26134	235899	6.18%	0.201%
18	4.095	4.080	4.114	PV	10308	105440	2.76%	0.090%
19	4.137	4.114	4.160	VV	48075	495722	12.99%	0.423%
20	4.178	4.160	4.207	PV	8019	119721	3.14%	0.102%
21	4.228	4.207	4.242	VV	22159	248971	6.52%	0.212%
22	4.257	4.242	4.272	VV	20734	250638	6.57%	0.214%
23	4.287	4.272	4.341	VV	13198	268035	7.02%	0.229%
24	4.378	4.341	4.404	PV	19518	288199	7.55%	0.246%
25	4.426	4.404	4.451	VV	16926	279638	7.33%	0.239%
26	4.468	4.451	4.483	VV	7732	119567	3.13%	0.102%
27	4.494	4.483	4.509	VV	6591	81830	2.14%	0.070%
28	4.517	4.509	4.533	VV	4408	39310	1.03%	0.034%
29	4.555	4.533	4.594	VV	9752	137055	3.59%	0.117%
30	4.616	4.594	4.627	PV	4301	48381	1.27%	0.041%
31	4.670	4.627	4.681	VV	19116	390869	10.24%	0.334%
32	4.694	4.681	4.721	VV	24611	459948	12.05%	0.392%
33	4.736	4.721	4.750	VV	25670	311733	8.17%	0.266%
34	4.769	4.750	4.811	VV	96583	1559203	40.86%	1.330%
35	4.829	4.811	4.864	VV	35803	778306	20.40%	0.664%
36	4.903	4.864	4.934	VV	44766	995443	26.09%	0.849%

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37	4.947	4.934	4.973	VV	39972	559842	14.67%	0.478%
38	4.993	4.973	5.031	VV	42763	644934	16.90%	0.550%
39	5.064	5.031	5.079	VV	16572	274840	7.20%	0.235%
40	5.099	5.079	5.139	VV	37505	691366	18.12%	0.590%
41	5.161	5.139	5.178	VV	89162	990503	25.96%	0.845%
42	5.194	5.178	5.216	VV	88782	958488	25.12%	0.818%
43	5.239	5.216	5.276	VV	49934	992165	26.00%	0.847%
44	5.304	5.276	5.337	VV	87474	1178095	30.87%	1.005%
45	5.368	5.337	5.381	PV	19374	301632	7.90%	0.257%
46	5.402	5.381	5.416	VV	45331	604238	15.83%	0.516%
47	5.423	5.416	5.436	VV	31876	332878	8.72%	0.284%
48	5.463	5.436	5.476	VV	31749	601115	15.75%	0.513%
49	5.494	5.476	5.510	VV	33111	531762	13.94%	0.454%
50	5.526	5.510	5.549	VV	29290	521216	13.66%	0.445%
51	5.559	5.549	5.574	VV	18999	233274	6.11%	0.199%
52	5.586	5.574	5.605	VV	18038	214069	5.61%	0.183%
53	5.632	5.605	5.651	VV	72648	899076	23.56%	0.767%
54	5.665	5.651	5.682	VV	27361	314466	8.24%	0.268%
55	5.697	5.682	5.728	VV	23496	414810	10.87%	0.354%
56	5.749	5.728	5.760	VV	25125	347704	9.11%	0.297%
57	5.801	5.760	5.811	VV	89714	1536725	40.27%	1.311%
58	5.821	5.811	5.858	VV	86808	1371718	35.95%	1.170%
59	5.885	5.858	5.903	VV	61131	891841	23.37%	0.761%
60	5.927	5.903	5.966	VV	143261	2279229	59.73%	1.945%
61	5.989	5.966	6.020	VV	74911	1123379	29.44%	0.959%
62	6.053	6.020	6.077	VV	43114	797351	20.90%	0.680%
63	6.101	6.077	6.119	PV	58645	629143	16.49%	0.537%
64	6.152	6.119	6.171	VV	72775	1016234	26.63%	0.867%
65	6.207	6.171	6.233	VV	120138	2296111	60.17%	1.959%
66	6.254	6.233	6.274	VV	132113	1539656	40.35%	1.314%
67	6.290	6.274	6.299	VV	25208	326379	8.55%	0.278%
68	6.313	6.299	6.325	VV	35211	424606	11.13%	0.362%
69	6.362	6.325	6.410	VV	96420	1771277	46.42%	1.511%
70	6.445	6.410	6.462	VV	43352	754891	19.78%	0.644%
71	6.478	6.462	6.505	VV	43065	761108	19.95%	0.649%
72	6.525	6.505	6.550	VV	63730	978337	25.64%	0.835%
73	6.575	6.550	6.632	VV	28449	984272	25.79%	0.840%
74	6.641	6.632	6.652	VV	8563	84303	2.21%	0.072%
75	6.683	6.652	6.701	VBA	30502	587253	15.39%	0.501%
76	6.747	6.701	6.760	BV	27457	470764	12.34%	0.402%
77	6.777	6.760	6.787	VV	51364	505017	13.23%	0.431%
78	6.807	6.787	6.829	VV	339106	3815951	100.00%	3.256%
79	6.841	6.829	6.863	VV	68152	921861	24.16%	0.787%
80	6.879	6.863	6.918	VV	72919	1010066	26.47%	0.862%
81	6.940	6.918	6.958	VV	56436	788140	20.65%	0.673%
82	6.980	6.958	7.008	VV	96316	1625534	42.60%	1.387%
83	7.017	7.008	7.030	VV	36896	340345	8.92%	0.290%
84	7.047	7.030	7.091	VV	50077	867077	22.72%	0.740%
85	7.122	7.091	7.140	VV	48038	836273	21.92%	0.714%
86	7.183	7.140	7.204	VV	104298	2358955	61.82%	2.013%
87	7.226	7.204	7.254	VV	114021	1481617	38.83%	1.264%
88	7.282	7.254	7.314	VV	46198	971786	25.47%	0.829%
89	7.330	7.314	7.348	VV	43714	531707	13.93%	0.454%

90	7.374	7.348	7.409	VV	260915	3234186	84.75%	2.760%
91	7.428	7.409	7.449	VV	53684	828057	21.70%	0.707%
92	7.472	7.449	7.490	VV	72920	993078	26.02%	0.847%
93	7.518	7.490	7.532	VV	35200	735418	19.27%	0.628%
94	7.559	7.532	7.618	VV	46284	1503501	39.40%	1.283%
95	7.647	7.618	7.673	VV	38775	883034	23.14%	0.753%
96	7.724	7.673	7.746	VV	61324	1928708	50.54%	1.646%
97	7.772	7.746	7.799	VV	119256	2052797	53.80%	1.752%
98	7.815	7.799	7.837	VV	41368	564074	14.78%	0.481%
99	7.861	7.837	7.895	VV	46783	909456	23.83%	0.776%
100	7.938	7.895	7.954	VV	80553	1564249	40.99%	1.335%
101	7.968	7.954	8.006	VV	53578	892257	23.38%	0.761%
102	8.028	8.006	8.041	VV	50149	624636	16.37%	0.533%
103	8.059	8.041	8.072	VV	88071	1118745	29.32%	0.955%
104	8.084	8.072	8.104	VV	82576	961261	25.19%	0.820%
105	8.127	8.104	8.148	VV	83804	1212629	31.78%	1.035%
106	8.178	8.148	8.193	VV	39237	825328	21.63%	0.704%
107	8.208	8.193	8.217	VV	37077	464993	12.19%	0.397%
108	8.228	8.217	8.250	VV	38805	543491	14.24%	0.464%
109	8.267	8.250	8.276	VV	25996	310363	8.13%	0.265%
110	8.299	8.276	8.324	VV	205237	2479310	64.97%	2.116%
111	8.343	8.324	8.371	VV	35795	750543	19.67%	0.640%
112	8.387	8.371	8.407	VV	43784	622541	16.31%	0.531%
113	8.440	8.407	8.464	VV	32942	971651	25.46%	0.829%
114	8.478	8.464	8.507	VV	31938	675247	17.70%	0.576%
115	8.527	8.507	8.551	VV	55614	856732	22.45%	0.731%
116	8.574	8.551	8.586	VV	42536	610019	15.99%	0.521%
117	8.594	8.586	8.608	VV	34415	423114	11.09%	0.361%
118	8.630	8.608	8.651	VV	66522	1063409	27.87%	0.907%
119	8.674	8.651	8.704	VV	26547	675622	17.71%	0.576%
120	8.724	8.704	8.742	VV	25545	429389	11.25%	0.366%
121	8.771	8.742	8.795	VV	28449	636408	16.68%	0.543%
122	8.808	8.795	8.817	VV	18338	202456	5.31%	0.173%
123	8.836	8.817	8.878	VV	47315	1096042	28.72%	0.935%
124	8.900	8.878	8.914	VV	43675	724513	18.99%	0.618%
125	8.930	8.914	8.953	VV	63558	863100	22.62%	0.736%
126	8.972	8.953	8.986	VV	43000	583422	15.29%	0.498%
127	9.019	8.986	9.045	VV	156633	2222604	58.25%	1.896%
128	9.064	9.045	9.080	VV	19659	334056	8.75%	0.285%
129	9.093	9.080	9.117	VV	18795	262660	6.88%	0.224%
130	9.165	9.117	9.211	VV	22959	717842	18.81%	0.613%
131	9.243	9.211	9.265	VV	25012	555485	14.56%	0.474%
132	9.275	9.265	9.299	VV	18431	350527	9.19%	0.299%
133	9.323	9.299	9.358	VV	17415	477335	12.51%	0.407%
134	9.388	9.358	9.410	VV	27107	459460	12.04%	0.392%
135	9.429	9.410	9.473	VV	13532	333197	8.73%	0.284%
136	9.505	9.473	9.518	VV	7213	142629	3.74%	0.122%
137	9.539	9.518	9.556	VV	11336	183186	4.80%	0.156%
138	9.565	9.556	9.571	VV	6529	58842	1.54%	0.050%
139	9.603	9.571	9.647	VV	10254	290273	7.61%	0.248%
140	9.677	9.647	9.712	VV	38089	712974	18.68%	0.608%
141	9.724	9.712	9.734	VV	9838	114356	3.00%	0.098%

142	9.758	9.734	9.785	VV	22122	405547	10.63%	0.346%
143	9.839	9.785	9.888	VV	15324	368239	9.65%	0.314%
144	9.917	9.888	9.973	VV	1875	45167	1.18%	0.039%
145	9.997	9.973	10.013	PV	4100	58923	1.54%	0.050%
146	10.038	10.013	10.068	VV	15560	283559	7.43%	0.242%
147	10.084	10.068	10.104	VV	9295	127493	3.34%	0.109%
148	10.114	10.104	10.126	VV	3903	44853	1.18%	0.038%
149	10.152	10.126	10.176	VV	6627	163530	4.29%	0.140%
150	10.187	10.176	10.230	VV	6082	104249	2.73%	0.089%
151	10.257	10.230	10.274	VV	1816	27083	0.71%	0.023%
152	10.295	10.274	10.338	VV	2746	64654	1.69%	0.055%
153	10.358	10.338	10.383	VV	3154	41845	1.10%	0.036%
154	10.431	10.383	10.443	VV	5376	69979	1.83%	0.060%
155	10.470	10.443	10.500	VV	39896	577340	15.13%	0.493%
156	10.537	10.500	10.601	VV	3490	147830	3.87%	0.126%
157	10.617	10.601	10.642	VV	3714	45999	1.21%	0.039%
158	10.658	10.642	10.691	PV	605	10160	0.27%	0.009%
159	10.715	10.691	10.731	VV	1117	17983	0.47%	0.015%
160	10.752	10.731	10.780	VV	3578	58619	1.54%	0.050%
161	10.821	10.780	10.860	VV	3629	105982	2.78%	0.090%
162	10.892	10.860	10.922	VV	32432	472654	12.39%	0.403%
163	10.939	10.922	10.972	VV	3069	53982	1.41%	0.046%
164	11.011	10.972	11.026	PV	926	18883	0.49%	0.016%
165	11.036	11.026	11.064	VV	954	14351	0.38%	0.012%
166	11.081	11.064	11.120	VV	817	16913	0.44%	0.014%
167	11.156	11.120	11.178	PV	1631	35444	0.93%	0.030%
168	11.216	11.178	11.261	VV	4728	102830	2.69%	0.088%
169	11.301	11.261	11.339	VV	675	19578	0.51%	0.017%
170	11.350	11.339	11.367	VV	443	5082	0.13%	0.004%
171	11.378	11.367	11.404	VV	391	4793	0.13%	0.004%
172	11.457	11.404	11.489	VV	2648	46371	1.22%	0.040%
173	11.524	11.489	11.562	VV	4752	80423	2.11%	0.069%
174	11.614	11.562	11.661	VV	11028	181212	4.75%	0.155%
175	11.677	11.661	11.704	VV	713	9786	0.26%	0.008%
176	11.723	11.704	11.744	PV	507	5759	0.15%	0.005%
177	11.795	11.744	11.807	VV	1000	21951	0.58%	0.019%
178	11.828	11.807	11.862	VV	1055	22327	0.59%	0.019%
179	11.887	11.862	11.902	VV	846	12569	0.33%	0.011%
180	11.921	11.902	11.945	VV	1338	19631	0.51%	0.017%
181	11.984	11.945	12.004	VV	588	15109	0.40%	0.013%
182	12.014	12.004	12.060	VV	507	12997	0.34%	0.011%
183	12.080	12.060	12.108	VV	613	13316	0.35%	0.011%
184	12.134	12.108	12.148	VV	860	15906	0.42%	0.014%
185	12.172	12.148	12.246	VV	3020	85909	2.25%	0.073%
186	12.263	12.246	12.278	VV	589	9885	0.26%	0.008%
187	12.321	12.278	12.366	VV	843	30428	0.80%	0.026%
188	12.402	12.366	12.441	PV	1000	28200	0.74%	0.024%
189	12.477	12.441	12.537	VV	823	29954	0.78%	0.026%
190	12.566	12.537	12.589	VV	1213	24272	0.64%	0.021%
191	12.601	12.589	12.639	VV	924	20026	0.52%	0.017%
192	12.691	12.639	12.727	VV	1741	42375	1.11%	0.036%
193	12.771	12.727	12.805	VV	1538	37406	0.98%	0.032%
194	12.832	12.805	12.884	VV	3193	56759	1.49%	0.048%

195	12.892	12.884	12.910	VV	583	7276	0.19%	0.006%
196	12.947	12.910	12.961	VV	522	12384	0.32%	0.011%
197	12.975	12.961	13.031	VV	611	10577	0.28%	0.009%
198	13.051	13.031	13.064	PV	163	1551	0.04%	0.001%
199	13.107	13.064	13.138	VV	370	10838	0.28%	0.009%
200	13.157	13.138	13.179	VV	443	6214	0.16%	0.005%
201	13.194	13.179	13.211	VV	392	5204	0.14%	0.004%
202	13.280	13.211	13.422	VV	286364	3550291	93.04%	3.029%
203	13.443	13.422	13.481	VV	1909	40752	1.07%	0.035%
204	13.513	13.481	13.594	VV	1202	54711	1.43%	0.047%
205	13.608	13.594	13.631	VV	521	9389	0.25%	0.008%
206	13.666	13.631	13.684	VV	722	18210	0.48%	0.016%
207	13.716	13.684	13.767	VV	837	25573	0.67%	0.022%
208	13.793	13.767	13.808	VV	344	6729	0.18%	0.006%
209	13.819	13.808	13.844	VV	349	6325	0.17%	0.005%
210	13.875	13.844	13.911	VV	522	15212	0.40%	0.013%
211	13.936	13.911	13.955	VV	553	10719	0.28%	0.009%
212	13.978	13.955	14.002	VV	1251	19915	0.52%	0.017%
213	14.029	14.002	14.074	VV	4643	66083	1.73%	0.056%
214	14.085	14.074	14.137	VV	334	8205	0.22%	0.007%
215	14.156	14.137	14.212	VV	185	5102	0.13%	0.004%
216	14.257	14.212	14.292	PV	395	9470	0.25%	0.008%
217	14.301	14.292	14.310	VV	235	2145	0.06%	0.002%
218	14.321	14.310	14.384	VV	209	6725	0.18%	0.006%
219	14.396	14.384	14.428	VV	284	4769	0.12%	0.004%
220	14.470	14.428	14.496	VV	1161	22570	0.59%	0.019%
221	14.512	14.496	14.523	VV	416	5975	0.16%	0.005%
222	14.543	14.523	14.561	VV	500	9242	0.24%	0.008%
223	14.590	14.561	14.634	VV	5866	82362	2.16%	0.070%
224	14.659	14.634	14.672	VV	310	6093	0.16%	0.005%
225	14.718	14.672	14.774	VV	408	14674	0.38%	0.013%
226	14.785	14.774	14.804	VV	166	2177	0.06%	0.002%
227	14.809	14.804	14.818	VV	151	828	0.02%	0.001%
228	14.840	14.818	14.858	VV	254	3667	0.10%	0.003%
229	14.890	14.858	14.902	VV	342	6919	0.18%	0.006%
230	14.909	14.902	14.922	VV	238	2260	0.06%	0.002%
231	14.938	14.922	14.961	VV	266	4460	0.12%	0.004%
232	14.977	14.961	14.996	VV	308	4838	0.13%	0.004%
233	15.004	14.996	15.056	VV	195	4974	0.13%	0.004%
234	15.087	15.056	15.102	VV	1200	17727	0.46%	0.015%
235	15.129	15.102	15.245	VV	9616	143501	3.76%	0.122%
236	15.294	15.245	15.347	VV	344	9479	0.25%	0.008%
237	15.358	15.347	15.371	VV	130	1196	0.03%	0.001%
238	15.381	15.371	15.419	VV	171	1902	0.05%	0.002%
239	15.433	15.419	15.448	PV	97	1039	0.03%	0.001%
240	15.464	15.448	15.495	VV	191	2599	0.07%	0.002%
241	15.517	15.495	15.531	VV	206	2473	0.06%	0.002%
242	15.538	15.531	15.555	VV	173	2246	0.06%	0.002%
243	15.565	15.555	15.581	VV	198	2112	0.06%	0.002%
244	15.648	15.581	15.760	VV	10615	159123	4.17%	0.136%
245	15.788	15.760	15.807	VV	204	2959	0.08%	0.003%
246	15.832	15.807	15.861	PV	139	2944	0.08%	0.003%

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247	15.870	15.861	15.907	VV	154	2249	0.06%	0.002%
248	15.971	15.907	15.991	VV	621	10597	0.28%	0.009%
249	16.024	15.991	16.056	VV	248	6589	0.17%	0.006%
250	16.112	16.056	16.122	VV	928	14627	0.38%	0.012%
251	16.150	16.122	16.238	VV	12516	182194	4.77%	0.155%
252	16.287	16.238	16.308	VV	199	6169	0.16%	0.005%
253	16.322	16.308	16.339	VV	194	2479	0.06%	0.002%
254	16.357	16.339	16.381	VV	198	2711	0.07%	0.002%
255	16.392	16.381	16.420	PV	64	905	0.02%	0.001%
256	16.459	16.420	16.490	VV	484	8605	0.23%	0.007%
257	16.507	16.490	16.548	VV	281	4268	0.11%	0.004%
258	16.631	16.548	16.691	PV	11821	181351	4.75%	0.155%
259	16.710	16.691	16.730	VV	210	3460	0.09%	0.003%
260	16.746	16.730	16.757	VV	176	1622	0.04%	0.001%
261	16.797	16.757	16.819	VV	246	6034	0.16%	0.005%
262	16.847	16.819	16.865	VV	183	3765	0.10%	0.003%
263	16.875	16.865	16.888	VV	63	698	0.02%	0.001%
264	16.931	16.888	16.951	VV	658	9961	0.26%	0.008%
265	16.981	16.951	17.003	VV	463	7174	0.19%	0.006%
266	17.021	17.003	17.030	VV	166	1749	0.05%	0.001%
267	17.097	17.030	17.160	VV	12713	189613	4.97%	0.162%
268	17.192	17.160	17.234	VV	172	3763	0.10%	0.003%
269	17.243	17.234	17.255	VV	57	694	0.02%	0.001%
270	17.387	17.255	17.410	PV	469	7028	0.18%	0.006%
271	17.435	17.410	17.452	PV	289	3527	0.09%	0.003%
272	17.548	17.452	17.610	VV	10819	162118	4.25%	0.138%
273	17.648	17.610	17.675	VV	348	8791	0.23%	0.008%
274	17.754	17.675	17.777	VV	199	3436	0.09%	0.003%
275	17.829	17.777	17.861	PV	526	7481	0.20%	0.006%
276	17.876	17.861	17.896	VV	282	3184	0.08%	0.003%
277	17.983	17.896	18.019	PV	10269	154710	4.05%	0.132%
278	18.039	18.019	18.057	VV	307	4072	0.11%	0.003%
279	18.149	18.057	18.194	VV	514	21434	0.56%	0.018%
280	18.259	18.194	18.284	VV	663	10745	0.28%	0.009%
281	18.302	18.284	18.314	VV	371	4544	0.12%	0.004%
282	18.328	18.314	18.341	VV	211	2986	0.08%	0.003%
283	18.407	18.341	18.446	VV	9996	149495	3.92%	0.128%
284	18.492	18.446	18.512	VV	624	15350	0.40%	0.013%
285	18.566	18.512	18.578	VV	253	9761	0.26%	0.008%
286	18.669	18.578	18.694	PV	649	11236	0.29%	0.010%
287	18.716	18.694	18.733	VV	308	4636	0.12%	0.004%
288	18.815	18.733	18.888	VV	11536	190051	4.98%	0.162%
289	18.921	18.888	18.937	PV	213	4101	0.11%	0.003%
290	18.962	18.937	18.969	VV	215	2676	0.07%	0.002%
291	19.072	18.969	19.089	VV	648	7495	0.20%	0.006%
292	19.118	19.089	19.147	VV	546	9672	0.25%	0.008%
293	19.213	19.147	19.265	PV	10190	159027	4.17%	0.136%
294	19.386	19.265	19.403	VV	435	18015	0.47%	0.015%
295	19.461	19.403	19.480	VV	831	18731	0.49%	0.016%
296	19.507	19.480	19.538	VV	554	9631	0.25%	0.008%
297	19.597	19.538	19.664	PV	12099	202663	5.31%	0.173%
298	19.723	19.664	19.756	VV	585	17090	0.45%	0.015%
299	19.840	19.756	19.857	VV	929	19501	0.51%	0.017%

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300	19.890	19.857	19.923	VV	1416	37864	0.99%	0.032%
301	19.972	19.923	20.009	VV	11052	191611	5.02%	0.163%
302	20.031	20.009	20.050	VV	831	18454	0.48%	0.016%
303	20.161	20.050	20.175	VV	1499	68098	1.78%	0.058%
304	20.208	20.175	20.228	VV	2576	62182	1.63%	0.053%
305	20.245	20.228	20.280	VV	2553	60947	1.60%	0.052%
306	20.338	20.280	20.370	VV	13873	266527	6.98%	0.227%
307	20.399	20.370	20.421	VV	2908	84365	2.21%	0.072%
308	20.492	20.421	20.506	VV	3418	153343	4.02%	0.131%
309	20.568	20.506	20.584	VV	3682	156070	4.09%	0.133%
310	20.611	20.584	20.638	VV	4215	120063	3.15%	0.102%
311	20.693	20.638	20.736	VV	12274	359681	9.43%	0.307%
312	20.874	20.736	20.891	VV	5806	448722	11.76%	0.383%
313	20.918	20.891	20.941	VV	5838	164616	4.31%	0.140%
314	20.973	20.941	20.997	VV	5631	180766	4.74%	0.154%
315	21.061	20.997	21.111	VV	12911	475468	12.46%	0.406%
316	21.155	21.111	21.181	VV	4985	203595	5.34%	0.174%
317	21.246	21.181	21.254	VV	4454	200016	5.24%	0.171%
318	21.262	21.254	21.288	VV	4310	83994	2.20%	0.072%
319	21.308	21.288	21.345	VV	3978	130609	3.42%	0.111%
320	21.379	21.345	21.405	VV	3998	132756	3.48%	0.113%
321	21.415	21.405	21.424	VV	3432	40268	1.06%	0.034%
322	21.473	21.424	21.535	VV	7518	311357	8.16%	0.266%
323	21.586	21.535	21.611	VV	3131	141277	3.70%	0.121%
324	21.649	21.611	21.658	VV	2759	77976	2.04%	0.067%
325	21.692	21.658	21.711	VV	2611	80237	2.10%	0.068%
326	21.756	21.711	21.801	VV	2366	117193	3.07%	0.100%
327	21.824	21.801	21.871	VV	1895	67633	1.77%	0.058%
328	21.938	21.871	21.982	VV	5310	163350	4.28%	0.139%
329	22.001	21.982	22.051	VV	873	20963	0.55%	0.018%

Sum of corrected areas: 117195271

Aliphatic EPH 110724.M Sat Nov 16 11:25:05 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-11		SDG No.:	P4839	
Lab Sample ID:	P4839-03		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015056.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	8.82		0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	18.8		0.39	1.15	mg/kg
Aromatic C16-C21	Aromatic C16-C21	9.66		1.11	1.92	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.31	U	2.31	3.08	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	58.0		40 - 140	116%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	56.0		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-03	Acq On:	15 Nov 2024 12:49
Client Sample ID:	EX-9-TPH-11	Operator:	YP\AJ
Data file:	FF015056.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	4.507	6.371	15678187	114.618	200	ug/ml
Aromatic C12-C16	6.372	9.062	32971944	244.196	300	ug/ml
Aromatic C16-C21	9.063	13.374	16054466	125.53	500	ug/ml
Aromatic C21-C36	13.375	18.817	2453440	20.131	800	ug/ml
Aromatic EPH	4.507	18.817	67158037	504.476		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7088646	58.05		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4572524	56.01		ug/ml
ortho-Terphenyl (SURR)	11.926	11.926	3611668	26.92		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015056.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:49
Operator : YP\AJ
Sample : P4839-03
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-11

Integration File: autoint1.e
Quant Time: Nov 15 13:50:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7088646	58.048 ug/ml
Spiked Amount 50.000		Recovery = 116.10%	
6) S 2-Flurobiphenyl (SURR)	8.867	4572524	56.007 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 112.01%	
11) S ortho-Terphenyl (SURR)	11.926	3611668	26.924 ug/ml
Spiked Amount 50.000		Recovery = 53.85%	
Target Compounds			

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

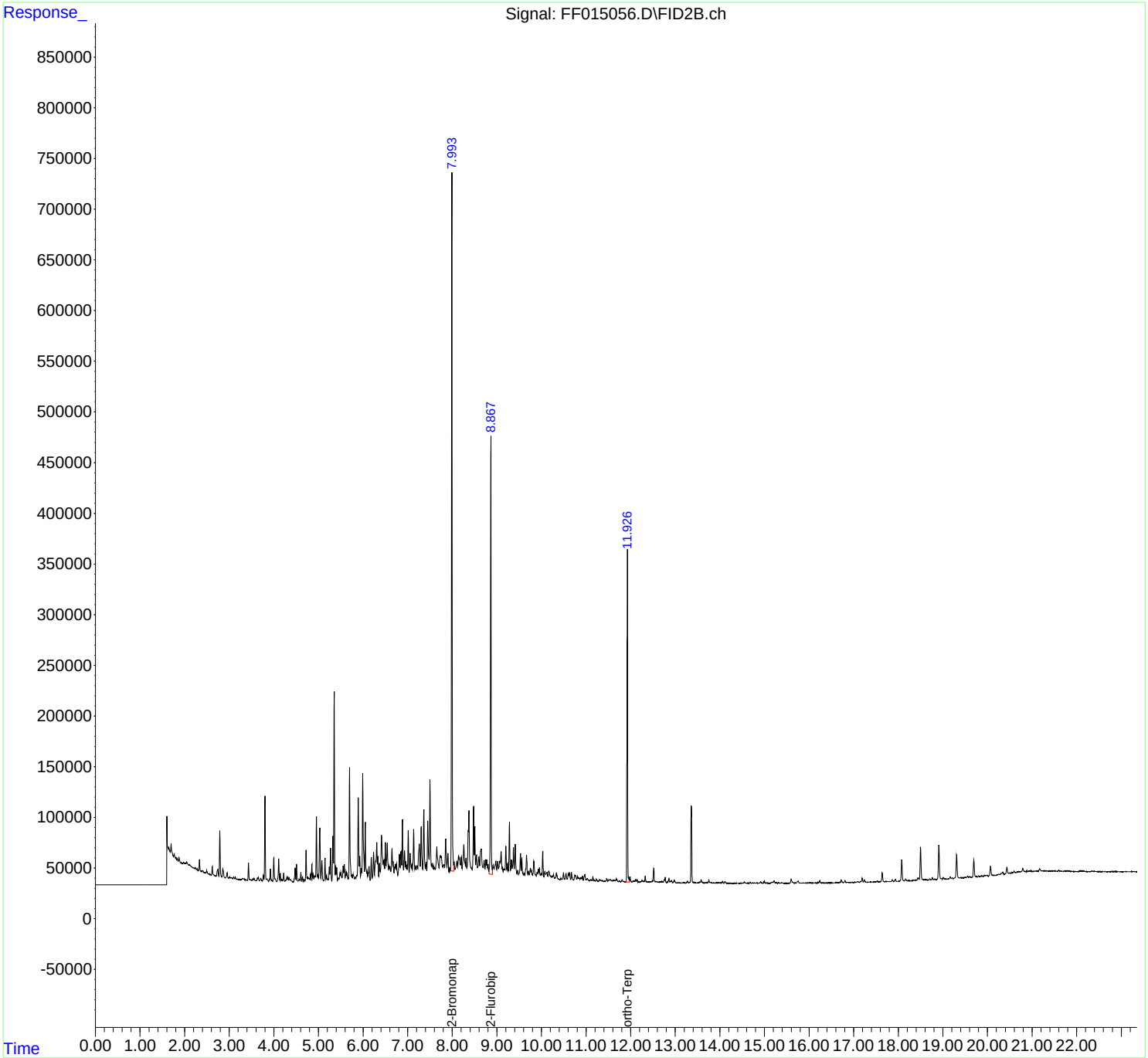
Quantitation Report (QT Reviewed)

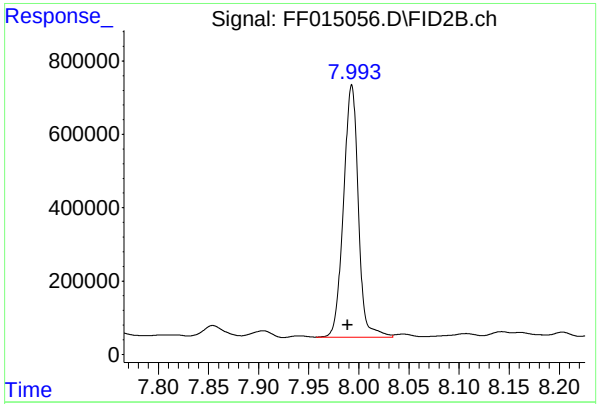
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015056.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:49
Operator : YP\AJ
Sample : P4839-03
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-11

Integration File: autoint1.e
Quant Time: Nov 15 13:50:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

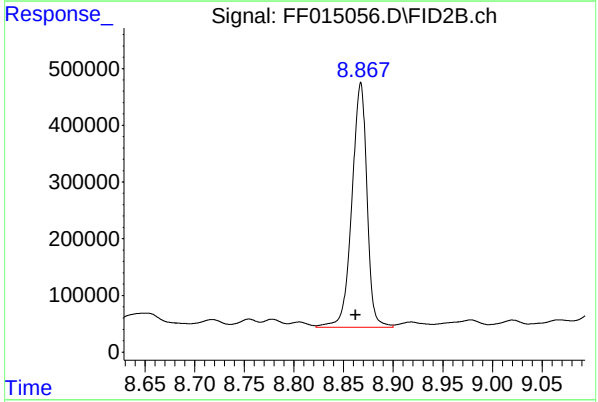




#4 2-Bromonaphthalene (SURR)

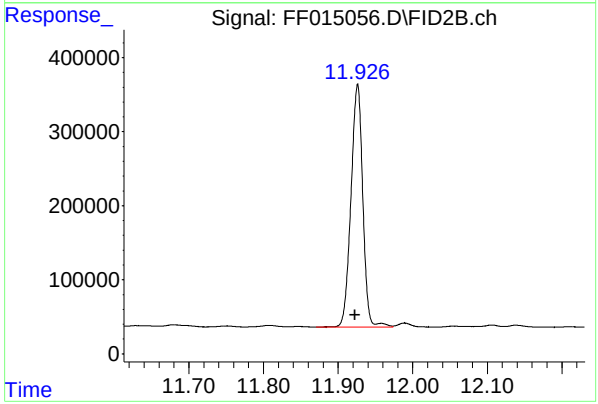
R.T.: 7.993 min
Delta R.T.: 0.004 mi
Response: 7088646
Conc: 58.05 ug/m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-11



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.005 min
Response: 4572524
Conc: 56.01 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.926 min
Delta R.T.: 0.003 min
Response: 3611668
Conc: 26.92 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015056.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:49
Sample : P4839-03
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.479	4.410	4.494	BV	13344	155844	2.05%	0.187%
2	4.510	4.494	4.537	VV	17224	181742	2.39%	0.218%
3	4.570	4.537	4.589	VV	2179	35788	0.47%	0.043%
4	4.607	4.589	4.626	VV	9234	89962	1.18%	0.108%
5	4.645	4.626	4.664	VV	4517	48256	0.64%	0.058%
6	4.679	4.664	4.702	PV	2571	28783	0.38%	0.034%
7	4.723	4.702	4.745	VV	31003	323984	4.27%	0.388%
8	4.758	4.745	4.771	VV	4627	60965	0.80%	0.073%
9	4.783	4.771	4.804	VV	3632	57674	0.76%	0.069%
10	4.823	4.804	4.837	VV	7496	88560	1.17%	0.106%
11	4.853	4.837	4.868	VV	17174	174516	2.30%	0.209%
12	4.879	4.868	4.896	VV	7556	88360	1.16%	0.106%
13	4.914	4.896	4.924	VV	5396	73262	0.96%	0.088%
14	4.929	4.924	4.936	VV	5312	38604	0.51%	0.046%
15	4.956	4.936	4.977	VV	64016	670866	8.84%	0.804%
16	4.987	4.977	5.002	VV	6688	78003	1.03%	0.093%
17	5.031	5.002	5.055	VV	53012	776469	10.23%	0.930%
18	5.079	5.055	5.117	VV	20566	292758	3.86%	0.351%
19	5.149	5.117	5.168	VV	23309	249818	3.29%	0.299%
20	5.183	5.168	5.203	VV	6351	85715	1.13%	0.103%
21	5.213	5.203	5.224	VV	2634	27002	0.36%	0.032%
22	5.244	5.224	5.256	VV	14502	159017	2.09%	0.191%
23	5.273	5.256	5.300	VV	33007	399580	5.26%	0.479%
24	5.325	5.300	5.336	VV	45119	462790	6.10%	0.555%
25	5.354	5.336	5.374	VV	187583	1869112	24.62%	2.240%
26	5.387	5.374	5.399	VV	15113	166503	2.19%	0.200%
27	5.411	5.399	5.429	VV	13833	142092	1.87%	0.170%
28	5.448	5.429	5.463	VV	3727	59507	0.78%	0.071%
29	5.485	5.463	5.496	VV	8299	118287	1.56%	0.142%
30	5.508	5.496	5.533	VV	9536	139966	1.84%	0.168%
31	5.556	5.533	5.568	VV	15623	207201	2.73%	0.248%
32	5.581	5.568	5.599	VV	17075	202789	2.67%	0.243%
33	5.623	5.599	5.636	VV	9983	155695	2.05%	0.187%
34	5.645	5.636	5.662	VV	7891	87885	1.16%	0.105%
35	5.698	5.662	5.741	VV	112482	1386348	18.26%	1.661%
36	5.750	5.741	5.763	VV	6491	71029	0.94%	0.085%

rteres

37	5.777	5.763	5.815	VV	7314	156637	2.06%	0.188%
38	5.832	5.815	5.843	VV	4855	66668	0.88%	0.080%
39	5.858	5.843	5.863	VV	6174	63416	0.84%	0.076%
40	5.894	5.863	5.917	VV	83058	1100147	14.49%	1.318%
41	5.928	5.917	5.945	VV	25231	273498	3.60%	0.328%
42	5.965	5.945	5.975	VV	13406	178421	2.35%	0.214%
43	5.994	5.975	6.034	VV	107165	1510070	19.89%	1.809%
44	6.051	6.034	6.083	VV	58985	733507	9.66%	0.879%
45	6.092	6.083	6.105	VV	10234	108996	1.44%	0.131%
46	6.136	6.105	6.160	VV	15236	271091	3.57%	0.325%
47	6.186	6.160	6.206	VV	24285	288384	3.80%	0.346%
48	6.238	6.206	6.257	VV	29096	427831	5.64%	0.513%
49	6.286	6.257	6.290	VV	20868	318924	4.20%	0.382%
50	6.309	6.290	6.323	VV	39020	550778	7.25%	0.660%
51	6.333	6.323	6.352	VV	24529	272851	3.59%	0.327%
52	6.369	6.352	6.386	VV	18537	258080	3.40%	0.309%
53	6.415	6.386	6.451	VV	45858	1040295	13.70%	1.247%
54	6.460	6.451	6.467	VV	20577	184064	2.42%	0.221%
55	6.475	6.467	6.487	VV	21205	227695	3.00%	0.273%
56	6.502	6.487	6.517	VV	39006	461650	6.08%	0.553%
57	6.545	6.517	6.576	VV	38666	797230	10.50%	0.955%
58	6.588	6.576	6.598	VV	15854	189746	2.50%	0.227%
59	6.606	6.598	6.624	VV	14912	200683	2.64%	0.240%
60	6.649	6.624	6.667	VV	32512	532522	7.01%	0.638%
61	6.676	6.667	6.694	VV	20360	252837	3.33%	0.303%
62	6.726	6.694	6.738	VV	17460	367743	4.84%	0.441%
63	6.751	6.738	6.781	VV	18227	324404	4.27%	0.389%
64	6.818	6.781	6.833	VV	27526	518544	6.83%	0.621%
65	6.850	6.833	6.867	VV	30080	477442	6.29%	0.572%
66	6.884	6.867	6.909	VV	61573	837074	11.03%	1.003%
67	6.932	6.909	6.948	VV	31086	501099	6.60%	0.600%
68	6.958	6.948	6.972	VV	20467	244703	3.22%	0.293%
69	6.984	6.972	6.997	VV	16696	220615	2.91%	0.264%
70	7.015	6.997	7.036	VV	50752	637020	8.39%	0.763%
71	7.057	7.036	7.083	VV	28507	552468	7.28%	0.662%
72	7.094	7.083	7.106	VV	17044	204326	2.69%	0.245%
73	7.137	7.106	7.165	VV	52010	908333	11.96%	1.088%
74	7.176	7.165	7.192	VV	15673	228704	3.01%	0.274%
75	7.211	7.192	7.228	VV	16340	315023	4.15%	0.377%
76	7.263	7.228	7.284	VV	37640	878157	11.57%	1.052%
77	7.305	7.284	7.338	VV	54782	949648	12.51%	1.138%
78	7.365	7.338	7.398	VV	71817	1196185	15.76%	1.433%
79	7.415	7.398	7.431	VV	19361	308221	4.06%	0.369%
80	7.452	7.431	7.482	VV	60282	1017410	13.40%	1.219%
81	7.503	7.482	7.535	VV	101014	1466301	19.31%	1.757%
82	7.551	7.535	7.566	VV	18589	306862	4.04%	0.368%
83	7.578	7.566	7.591	VV	16156	217131	2.86%	0.260%
84	7.605	7.591	7.621	VV	14428	241843	3.19%	0.290%
85	7.656	7.621	7.705	VV	35120	1054644	13.89%	1.264%
86	7.731	7.705	7.740	VV	26069	460153	6.06%	0.551%
87	7.749	7.740	7.789	VV	25082	607304	8.00%	0.728%
88	7.804	7.789	7.830	VV	17143	399089	5.26%	0.478%
89	7.854	7.830	7.882	VV	42909	823467	10.85%	0.987%

90	7.905	7.882	7.925	VV	28592	514528	6.78%	0.617%
91	7.940	7.925	7.957	VV	14446	243736	3.21%	0.292%
92	7.993	7.957	8.034	VV	700530	7591894	100.00%	9.097%
93	8.044	8.034	8.063	VV	19564	294832	3.88%	0.353%
94	8.107	8.063	8.123	VV	20895	591481	7.79%	0.709%
95	8.143	8.123	8.153	VV	26108	395192	5.21%	0.474%
96	8.161	8.153	8.189	VV	23979	432793	5.70%	0.519%
97	8.203	8.189	8.222	VV	24905	388501	5.12%	0.466%
98	8.261	8.222	8.297	VV	37275	1043769	13.75%	1.251%
99	8.310	8.297	8.327	VV	23875	332940	4.39%	0.399%
100	8.376	8.327	8.449	VV	70783	2026387	26.69%	2.428%
101	8.480	8.449	8.495	VV	75229	1075432	14.17%	1.289%
102	8.507	8.495	8.526	VV	55233	669560	8.82%	0.802%
103	8.544	8.526	8.567	VV	26851	509303	6.71%	0.610%
104	8.598	8.567	8.617	VV	25155	572354	7.54%	0.686%
105	8.652	8.617	8.695	VV	32863	1105388	14.56%	1.325%
106	8.718	8.695	8.736	VV	21660	423088	5.57%	0.507%
107	8.755	8.736	8.766	VV	22536	331197	4.36%	0.397%
108	8.778	8.766	8.794	VV	22243	308621	4.07%	0.370%
109	8.805	8.794	8.822	VV	17417	247462	3.26%	0.297%
110	8.867	8.822	8.900	VV	439081	4946713	65.16%	5.928%
111	8.918	8.900	8.939	VV	17404	345087	4.55%	0.414%
112	8.978	8.939	8.997	VV	21069	572296	7.54%	0.686%
113	9.021	8.997	9.037	VV	20799	397362	5.23%	0.476%
114	9.067	9.037	9.082	VV	21079	487236	6.42%	0.584%
115	9.098	9.082	9.117	VV	30445	477262	6.29%	0.572%
116	9.126	9.117	9.142	VV	15415	199087	2.62%	0.239%
117	9.156	9.142	9.182	VV	13263	301957	3.98%	0.362%
118	9.204	9.182	9.225	VV	35989	576315	7.59%	0.691%
119	9.240	9.225	9.260	VV	18630	311837	4.11%	0.374%
120	9.285	9.260	9.306	VV	59322	829731	10.93%	0.994%
121	9.329	9.306	9.344	VV	22537	377067	4.97%	0.452%
122	9.374	9.344	9.391	VV	34499	599305	7.89%	0.718%
123	9.415	9.391	9.451	VV	37959	723258	9.53%	0.867%
124	9.469	9.451	9.492	VV	11980	244110	3.22%	0.293%
125	9.532	9.492	9.548	VV	28452	528050	6.96%	0.633%
126	9.563	9.548	9.580	VV	24448	318947	4.20%	0.382%
127	9.585	9.580	9.599	VV	9512	97554	1.28%	0.117%
128	9.613	9.599	9.629	VV	9181	148876	1.96%	0.178%
129	9.668	9.629	9.697	VV	27281	582277	7.67%	0.698%
130	9.712	9.697	9.730	VV	11148	185957	2.45%	0.223%
131	9.753	9.730	9.767	VV	14090	245422	3.23%	0.294%
132	9.777	9.767	9.805	VV	11837	218393	2.88%	0.262%
133	9.831	9.805	9.864	VV	21200	459916	6.06%	0.551%
134	9.872	9.864	9.886	VV	8114	99014	1.30%	0.119%
135	9.904	9.886	9.915	VV	9983	147224	1.94%	0.176%
136	9.931	9.915	9.944	VV	13420	191540	2.52%	0.230%
137	9.957	9.944	9.976	VV	14474	215654	2.84%	0.258%
138	9.996	9.976	10.010	VV	9148	163588	2.15%	0.196%
139	10.030	10.010	10.055	VV	30672	417648	5.50%	0.500%
140	10.076	10.055	10.098	VV	10927	222438	2.93%	0.267%
141	10.124	10.098	10.144	VV	10138	239607	3.16%	0.287%

rteres

142	10.168	10.144	10.194	VV	11500	276531	3.64%	0.331%
143	10.200	10.194	10.220	VV	6693	94220	1.24%	0.113%
144	10.235	10.220	10.252	VV	6485	115507	1.52%	0.138%
145	10.273	10.252	10.302	VV	7822	180752	2.38%	0.217%
146	10.337	10.302	10.385	VV	9524	281428	3.71%	0.337%
147	10.395	10.385	10.419	VV	3656	64567	0.85%	0.077%
148	10.440	10.419	10.455	VV	4532	79710	1.05%	0.096%
149	10.461	10.455	10.472	VV	3459	35652	0.47%	0.043%
150	10.496	10.472	10.526	VV	10013	180753	2.38%	0.217%
151	10.552	10.526	10.577	VV	9028	177929	2.34%	0.213%
152	10.604	10.577	10.616	VV	9008	147344	1.94%	0.177%
153	10.630	10.616	10.656	VV	9976	164826	2.17%	0.198%
154	10.675	10.656	10.719	VV	10206	206058	2.71%	0.247%
155	10.750	10.719	10.762	VV	7513	130308	1.72%	0.156%
156	10.767	10.762	10.794	VV	6950	104744	1.38%	0.126%
157	10.813	10.794	10.839	VV	6415	134339	1.77%	0.161%
158	10.849	10.839	10.865	VV	4663	66845	0.88%	0.080%
159	10.887	10.865	10.903	VV	4951	95419	1.26%	0.114%
160	10.920	10.903	10.939	VV	6694	103930	1.37%	0.125%
161	10.974	10.939	10.999	VV	8100	191654	2.52%	0.230%
162	11.031	10.999	11.074	VV	4474	142496	1.88%	0.171%
163	11.117	11.074	11.134	VV	3174	93923	1.24%	0.113%
164	11.154	11.134	11.180	VV	5945	100340	1.32%	0.120%
165	11.185	11.180	11.207	VV	2407	33305	0.44%	0.040%
166	11.232	11.207	11.276	VV	3578	95938	1.26%	0.115%
167	11.304	11.276	11.320	VV	3359	65107	0.86%	0.078%
168	11.333	11.320	11.354	VV	2669	46383	0.61%	0.056%
169	11.370	11.354	11.392	VV	2389	42936	0.57%	0.051%
170	11.431	11.392	11.437	VV	1753	41497	0.55%	0.050%
171	11.465	11.437	11.486	VV	4059	76834	1.01%	0.092%
172	11.510	11.486	11.528	VV	3218	67411	0.89%	0.081%
173	11.545	11.528	11.570	VV	3519	70970	0.93%	0.085%
174	11.578	11.570	11.592	VV	2221	27116	0.36%	0.032%
175	11.605	11.592	11.617	VV	2920	36882	0.49%	0.044%
176	11.629	11.617	11.661	VV	2824	63937	0.84%	0.077%
177	11.680	11.661	11.723	VV	3937	96650	1.27%	0.116%
178	11.751	11.723	11.775	VV	2355	49460	0.65%	0.059%
179	11.808	11.775	11.835	VV	3211	68456	0.90%	0.082%
180	11.847	11.835	11.870	VV	1639	27709	0.36%	0.033%
181	11.926	11.870	11.950	VV	330257	3600740	47.43%	4.315%
182	11.958	11.950	11.973	VV	5946	62902	0.83%	0.075%
183	11.989	11.973	12.031	VV	6307	97840	1.29%	0.117%
184	12.055	12.031	12.070	VV	2108	36830	0.49%	0.044%
185	12.075	12.070	12.082	VV	1737	12320	0.16%	0.015%
186	12.106	12.082	12.124	VV	3727	59938	0.79%	0.072%
187	12.138	12.124	12.190	VV	3545	69287	0.91%	0.083%
188	12.207	12.190	12.225	VV	1282	23087	0.30%	0.028%
189	12.260	12.225	12.284	VV	2579	64742	0.85%	0.078%
190	12.296	12.284	12.307	VV	1816	22632	0.30%	0.027%
191	12.326	12.307	12.350	VV	7057	95034	1.25%	0.114%
192	12.363	12.350	12.385	VV	1609	25773	0.34%	0.031%
193	12.431	12.385	12.449	VV	1337	42362	0.56%	0.051%
194	12.459	12.449	12.470	VV	1340	15310	0.20%	0.018%

rteres

195	12.517	12.470	12.555	VV	14680	225819	2.97%	0.271%
196	12.576	12.555	12.594	VV	1731	33255	0.44%	0.040%
197	12.605	12.594	12.619	VV	1297	16520	0.22%	0.020%
198	12.636	12.619	12.649	VV	1234	19298	0.25%	0.023%
199	12.652	12.649	12.667	VV	1183	12319	0.16%	0.015%
200	12.703	12.667	12.727	VV	1918	48334	0.64%	0.058%
201	12.774	12.727	12.810	VV	5655	126815	1.67%	0.152%
202	12.858	12.810	12.879	VV	4705	81672	1.08%	0.098%
203	12.895	12.879	12.902	VV	1974	23527	0.31%	0.028%
204	12.917	12.902	12.949	VV	2776	45483	0.60%	0.055%
205	12.975	12.949	13.025	VV	3240	63955	0.84%	0.077%
206	13.035	13.025	13.045	VV	437	4394	0.06%	0.005%
207	13.048	13.045	13.070	VV	349	5715	0.08%	0.007%
208	13.100	13.070	13.120	VV	629	12879	0.17%	0.015%
209	13.134	13.120	13.145	VV	440	5875	0.08%	0.007%
210	13.165	13.145	13.176	VV	632	10047	0.13%	0.012%
211	13.190	13.176	13.250	VV	724	20683	0.27%	0.025%
212	13.272	13.250	13.300	VV	2047	29081	0.38%	0.035%
213	13.361	13.300	13.392	VV	76248	951602	12.53%	1.140%
214	13.407	13.392	13.500	VV	1047	39825	0.52%	0.048%
215	13.580	13.500	13.635	VV	3597	92850	1.22%	0.111%
216	13.670	13.635	13.687	VV	702	15252	0.20%	0.018%
217	13.705	13.687	13.722	VV	773	13993	0.18%	0.017%
218	13.753	13.722	13.810	VV	3066	63227	0.83%	0.076%
219	13.817	13.810	13.842	VV	752	10963	0.14%	0.013%
220	13.860	13.842	13.894	VV	729	14116	0.19%	0.017%
221	13.909	13.894	13.916	VV	375	4725	0.06%	0.006%
222	13.932	13.916	13.952	VV	636	9483	0.12%	0.011%
223	13.970	13.952	13.998	VV	562	13217	0.17%	0.016%
224	14.012	13.998	14.023	VV	460	6126	0.08%	0.007%
225	14.063	14.023	14.090	VV	1974	33661	0.44%	0.040%
226	14.114	14.090	14.160	VV	1740	30465	0.40%	0.037%
227	14.178	14.160	14.195	VV	367	5300	0.07%	0.006%
228	14.213	14.195	14.292	VV	263	6385	0.08%	0.008%
229	14.337	14.292	14.400	PV	268	9199	0.12%	0.011%
230	14.406	14.400	14.426	VV	125	1582	0.02%	0.002%
231	14.447	14.426	14.464	VV	205	2772	0.04%	0.003%
232	14.482	14.464	14.494	VV	276	3672	0.05%	0.004%
233	14.507	14.494	14.518	VV	316	4274	0.06%	0.005%
234	14.549	14.518	14.620	VV	1442	31774	0.42%	0.038%
235	14.633	14.620	14.655	VV	264	4231	0.06%	0.005%
236	14.677	14.655	14.712	VV	1267	19838	0.26%	0.024%
237	14.733	14.712	14.760	VV	853	13046	0.17%	0.016%
238	14.776	14.760	14.788	VV	407	4891	0.06%	0.006%
239	14.809	14.788	14.822	VV	382	6633	0.09%	0.008%
240	14.837	14.822	14.869	VV	463	9064	0.12%	0.011%
241	14.914	14.869	14.958	VV	1691	32773	0.43%	0.039%
242	14.993	14.958	15.043	VV	2162	37255	0.49%	0.045%
243	15.056	15.043	15.101	VV	354	7755	0.10%	0.009%
244	15.111	15.101	15.124	VV	144	1528	0.02%	0.002%
245	15.180	15.124	15.197	VV	1300	35003	0.46%	0.042%
246	15.216	15.197	15.245	VV	2375	37779	0.50%	0.045%

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247	15.261	15.245	15.292	VV	1005	14402	0.19%	0.017%
248	15.321	15.292	15.360	VV	581	12617	0.17%	0.015%
249	15.387	15.360	15.435	VV	697	13782	0.18%	0.017%
250	15.455	15.435	15.490	VV	196	3264	0.04%	0.004%
251	15.516	15.490	15.545	PV	215	3560	0.05%	0.004%
252	15.598	15.545	15.685	VV	3991	89059	1.17%	0.107%
253	15.699	15.685	15.712	VV	300	4257	0.06%	0.005%
254	15.752	15.712	15.809	VV	1999	49010	0.65%	0.059%
255	15.825	15.809	15.847	VV	199	2931	0.04%	0.004%
256	15.861	15.847	15.883	VV	259	3899	0.05%	0.005%
257	15.890	15.883	15.916	VV	164	2654	0.03%	0.003%
258	15.951	15.916	15.988	VV	524	10514	0.14%	0.013%
259	16.058	15.988	16.079	VV	325	10219	0.13%	0.012%
260	16.106	16.079	16.176	VV	339	14006	0.18%	0.017%
261	16.197	16.176	16.214	VV	588	9798	0.13%	0.012%
262	16.239	16.214	16.268	VV	2609	36421	0.48%	0.044%
263	16.294	16.268	16.323	VV	421	7108	0.09%	0.009%
264	16.332	16.323	16.352	VV	145	1168	0.02%	0.001%
265	16.381	16.352	16.402	PV	123	2614	0.03%	0.003%
266	16.419	16.402	16.494	VV	169	3715	0.05%	0.004%
267	16.551	16.494	16.569	PV	104	2632	0.03%	0.003%
268	16.620	16.569	16.648	VV	494	10965	0.14%	0.013%
269	16.655	16.648	16.664	VV	146	1328	0.02%	0.002%
270	16.721	16.664	16.779	VV	2574	52229	0.69%	0.063%
271	16.803	16.779	16.835	VV	2405	34634	0.46%	0.042%
272	16.850	16.835	16.874	VV	365	6342	0.08%	0.008%
273	16.894	16.874	16.903	VV	224	3687	0.05%	0.004%
274	16.914	16.903	16.938	VV	235	4156	0.05%	0.005%
275	16.958	16.938	16.985	VV	235	4870	0.06%	0.006%
276	17.027	16.985	17.047	VV	327	7537	0.10%	0.009%
277	17.085	17.047	17.128	VV	892	18770	0.25%	0.022%
278	17.154	17.128	17.164	VV	803	11150	0.15%	0.013%
279	17.189	17.164	17.214	VV	4289	62766	0.83%	0.075%
280	17.238	17.214	17.283	VV	2703	41727	0.55%	0.050%
281	17.295	17.283	17.313	VV	201	2746	0.04%	0.003%
282	17.384	17.313	17.408	VV	260	7586	0.10%	0.009%
283	17.481	17.408	17.500	PV	179	6425	0.08%	0.008%
284	17.527	17.500	17.551	VV	850	13916	0.18%	0.017%
285	17.567	17.551	17.589	VV	330	6272	0.08%	0.008%
286	17.640	17.589	17.704	VV	9015	138471	1.82%	0.166%
287	17.723	17.704	17.775	VV	402	10063	0.13%	0.012%
288	17.790	17.775	17.831	VV	143	3194	0.04%	0.004%
289	17.865	17.831	17.894	PV	2068	28718	0.38%	0.034%
290	17.935	17.894	17.985	VV	2342	36045	0.47%	0.043%
291	18.077	17.985	18.139	PV	21205	333287	4.39%	0.399%
292	18.166	18.139	18.200	VV	2159	37055	0.49%	0.044%
293	18.234	18.200	18.282	VV	299	8181	0.11%	0.010%
294	18.305	18.282	18.322	PV	139	1823	0.02%	0.002%
295	18.350	18.322	18.377	PV	760	11966	0.16%	0.014%
296	18.398	18.377	18.415	VV	563	8639	0.11%	0.010%
297	18.449	18.415	18.470	VV	2662	56736	0.75%	0.068%
298	18.499	18.470	18.582	VV	32563	506042	6.67%	0.606%
299	18.595	18.582	18.659	VV	789	19860	0.26%	0.024%

						rteres		
300	18.708	18.671	18.732	PV	884	12432	0.16%	0.015%
301	18.764	18.732	18.790	VV	1580	23535	0.31%	0.028%

Sum of corrected areas: 83453222

Aromatic EPH 111524.M Fri Nov 15 14:00:04 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-11		SDG No.:	P4839	
Lab Sample ID:	P4839-03		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051302.D	5	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	41.7		2.19	5.77	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	69.2		1.39	3.85	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	3.43	J	1.73	5.77	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	4.62	U	4.62	7.70	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.4	U	10.4	11.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	6.53		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-03DL	Acq On:	18 Nov 2024 10:21
Client Sample ID:	P4839-03DL	Operator:	YP\AJ
Data file:	FE051302.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.758	15157307	108.332	300	ug/ml
Aliphatic C12-C16	6.759	10.191	25300596	179.902	200	ug/ml
Aliphatic C16-C21	10.192	13.551	1226600	8.903	300	ug/ml
Aliphatic C21-C28	13.552	17.208	281930	2.105	400	ug/ml
Aliphatic C28-C40	17.209	22.059	923861	7.176	600	ug/ml
Aliphatic EPH	3.139	22.059	42890294	306.418		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	741227	6.53		ug/ml
Aliphatic C9-C28	3.139	17.208	41966433	299.242	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051302.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 10:21
Operator : YP\AJ
Sample : P4839-03DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-11DL

Integration File: autoint1.e
Quant Time: Nov 19 02:48:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.286	741227	6.529 ug/ml
Spiked Amount 50.000		Recovery = 13.06%	
Target Compounds			

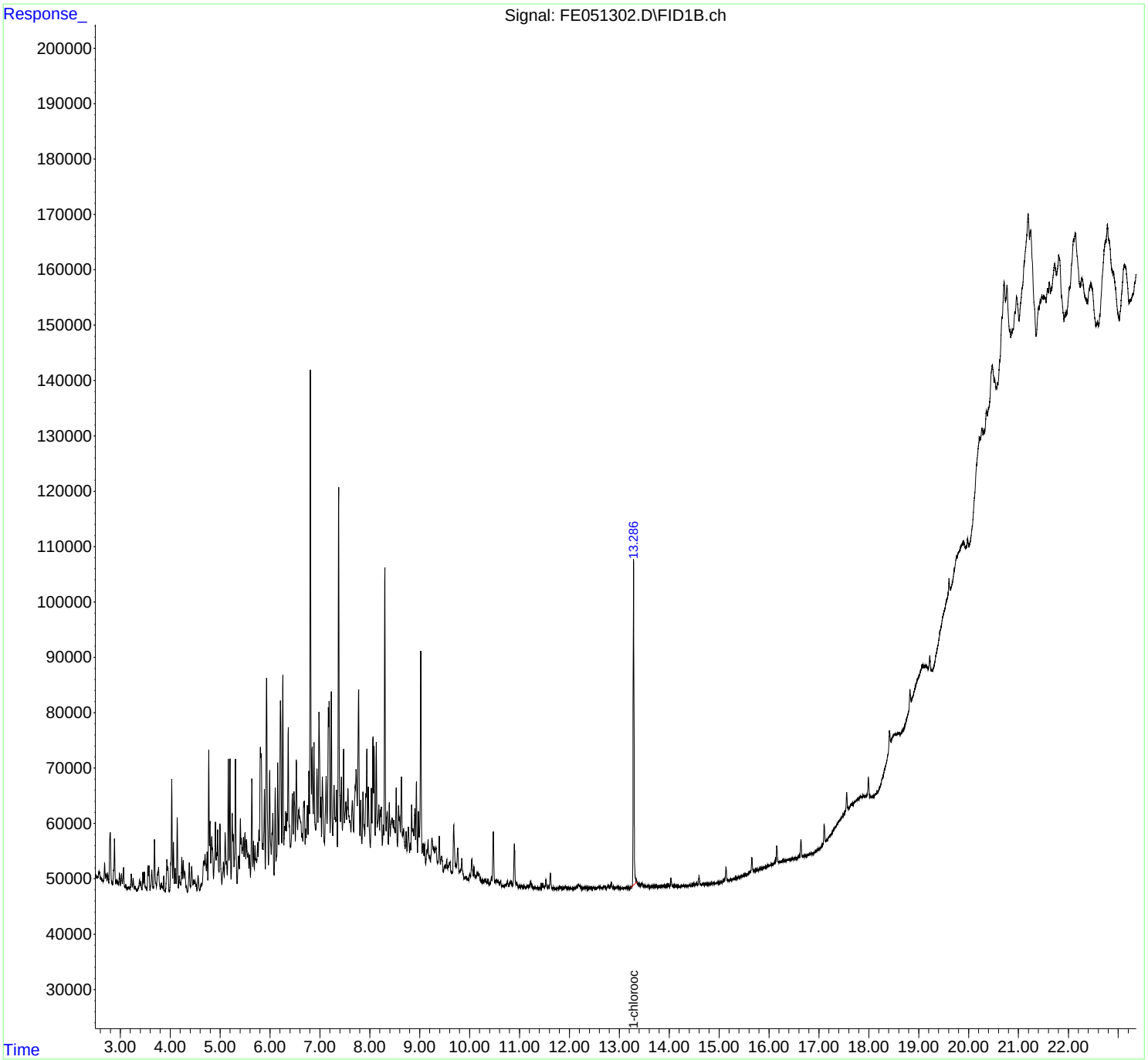
(f)=RT Delta > 1/2 Window (m)=manual int.

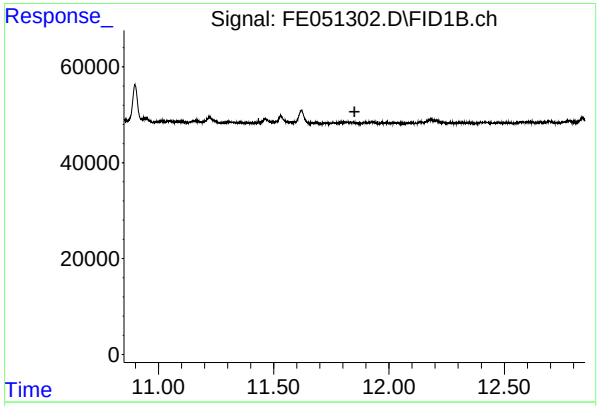
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051302.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 10:21
Operator : YP\AJ
Sample : P4839-03DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-11DL

Integration File: autoint1.e
Quant Time: Nov 19 02:48:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

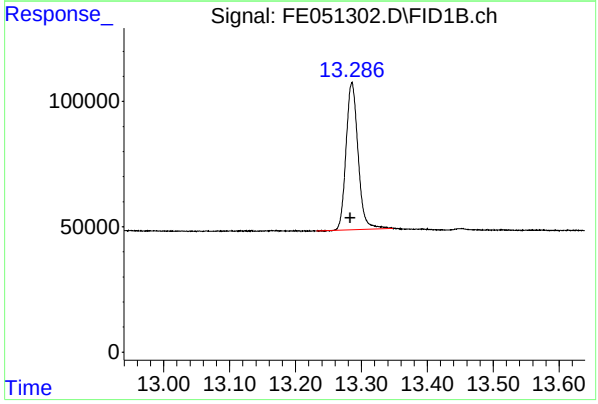




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-11DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: 0.003 min
Response: 741227
Conc: 6.53 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051302.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 10:21
Sample : P4839-03DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.258	3.215	3.279	BV	1191	5528	0.47%	0.013%
2	3.295	3.279	3.327	PV	329	4440	0.37%	0.010%
3	3.384	3.327	3.399	PV	1835	27325	2.30%	0.063%
4	3.411	3.399	3.432	VV	1584	18715	1.58%	0.043%
5	3.452	3.432	3.466	VV	3248	36895	3.11%	0.084%
6	3.482	3.466	3.533	VV	3320	51222	4.32%	0.117%
7	3.554	3.533	3.564	VV	4439	46276	3.90%	0.106%
8	3.574	3.564	3.597	VV	4511	49425	4.17%	0.113%
9	3.631	3.597	3.663	VV	3808	61887	5.22%	0.142%
10	3.685	3.663	3.723	VV	9272	123672	10.43%	0.283%
11	3.766	3.723	3.802	VV	4252	109982	9.27%	0.252%
12	3.825	3.802	3.854	VV	1477	28329	2.39%	0.065%
13	3.871	3.854	3.897	VV	2736	29446	2.48%	0.067%
14	3.934	3.897	3.946	PV	5718	77655	6.55%	0.178%
15	3.952	3.946	3.983	VV	4398	49264	4.15%	0.113%
16	4.031	3.983	4.049	VV	20219	260133	21.94%	0.595%
17	4.065	4.049	4.084	VV	8888	104427	8.81%	0.239%
18	4.099	4.084	4.118	VV	4181	56850	4.79%	0.130%
19	4.141	4.118	4.164	VV	13381	155364	13.10%	0.356%
20	4.182	4.164	4.211	VV	2789	50392	4.25%	0.115%
21	4.232	4.211	4.247	VV	6192	75080	6.33%	0.172%
22	4.261	4.247	4.276	VV	5699	70968	5.98%	0.162%
23	4.291	4.276	4.345	VV	3571	75019	6.33%	0.172%
24	4.382	4.345	4.408	PV	5204	76173	6.42%	0.174%
25	4.430	4.408	4.456	VV	4565	76244	6.43%	0.175%
26	4.472	4.456	4.487	VV	2122	34049	2.87%	0.078%
27	4.498	4.487	4.538	VV	1913	38150	3.22%	0.087%
28	4.560	4.538	4.601	VV	2941	46842	3.95%	0.107%
29	4.619	4.601	4.631	VV	1442	18927	1.60%	0.043%
30	4.675	4.631	4.688	VV	5489	124149	10.47%	0.284%
31	4.699	4.688	4.725	VV	6709	118743	10.01%	0.272%
32	4.740	4.725	4.754	VV	7145	90308	7.62%	0.207%
33	4.773	4.754	4.788	VV	25406	272945	23.02%	0.625%
34	4.797	4.788	4.815	VV	12650	150513	12.69%	0.344%
35	4.832	4.815	4.868	VV	9906	224099	18.90%	0.513%
36	4.907	4.868	4.921	VV	12580	222028	18.72%	0.508%

37	4.951	4.921	4.977	VV	11201	231674	19.54%	0.530%
38	4.998	4.977	5.035	VV	12162	199898	16.86%	0.458%
39	5.068	5.035	5.082	VV	5350	100201	8.45%	0.229%
40	5.102	5.082	5.143	VV	10529	217219	18.32%	0.497%
41	5.165	5.143	5.182	VV	23793	280023	23.61%	0.641%
42	5.198	5.182	5.221	VV	23965	275044	23.19%	0.630%
43	5.243	5.221	5.280	VV	14176	302814	25.53%	0.693%
44	5.308	5.280	5.341	VV	23881	354062	29.86%	0.810%
45	5.371	5.341	5.385	VV	6406	118530	10.00%	0.271%
46	5.407	5.385	5.453	VV	13072	352545	29.73%	0.807%
47	5.467	5.453	5.481	VV	9835	136473	11.51%	0.312%
48	5.498	5.481	5.515	VV	10612	175591	14.81%	0.402%
49	5.530	5.515	5.554	VV	9284	177015	14.93%	0.405%
50	5.563	5.554	5.578	VV	6936	86845	7.32%	0.199%
51	5.591	5.578	5.609	VV	6644	91466	7.71%	0.209%
52	5.637	5.609	5.656	VV	20373	289825	24.44%	0.663%
53	5.670	5.656	5.686	VV	9042	119348	10.06%	0.273%
54	5.701	5.686	5.733	VV	8270	171043	14.42%	0.391%
55	5.752	5.733	5.764	VV	8748	130850	11.03%	0.299%
56	5.808	5.764	5.819	VV	25903	513805	43.33%	1.176%
57	5.824	5.819	5.862	VV	24818	379926	32.04%	0.870%
58	5.889	5.862	5.907	VV	18321	298997	25.21%	0.684%
59	5.932	5.907	5.970	VV	38384	689622	58.15%	1.578%
60	5.993	5.970	6.025	VV	21874	382489	32.25%	0.875%
61	6.057	6.025	6.081	VV	14064	306392	25.84%	0.701%
62	6.105	6.081	6.125	VV	18566	248316	20.94%	0.568%
63	6.156	6.125	6.175	VV	23077	371405	31.32%	0.850%
64	6.210	6.175	6.237	VV	33938	736296	62.09%	1.685%
65	6.257	6.237	6.278	VV	39064	509491	42.96%	1.166%
66	6.296	6.278	6.303	VV	11666	159292	13.43%	0.365%
67	6.316	6.303	6.329	VV	14280	193619	16.33%	0.443%
68	6.366	6.329	6.415	VV	29507	744251	62.76%	1.703%
69	6.449	6.415	6.466	VV	17525	387220	32.65%	0.886%
70	6.482	6.466	6.509	VV	17944	366843	30.93%	0.840%
71	6.529	6.509	6.554	VV	23716	439364	37.05%	1.006%
72	6.578	6.554	6.656	VV	14817	749449	63.20%	1.715%
73	6.688	6.656	6.705	VV	16333	389651	32.86%	0.892%
74	6.716	6.705	6.727	VV	11111	131227	11.07%	0.300%
75	6.750	6.727	6.764	VV	15422	287722	24.26%	0.659%
76	6.780	6.764	6.790	VV	21528	260757	21.99%	0.597%
77	6.809	6.790	6.833	VV	93575	1185891	100.00%	2.714%
78	6.845	6.833	6.866	VV	25996	406830	34.31%	0.931%
79	6.882	6.866	6.915	VV	26877	478235	40.33%	1.095%
80	6.943	6.915	6.962	VV	21982	443279	37.38%	1.015%
81	6.984	6.962	7.011	VV	31782	648062	54.65%	1.483%
82	7.020	7.011	7.034	VV	16994	191997	16.19%	0.439%
83	7.050	7.034	7.093	VV	20507	495605	41.79%	1.134%
84	7.126	7.093	7.144	VV	20613	450366	37.98%	1.031%
85	7.186	7.144	7.207	VV	33799	878576	74.09%	2.011%
86	7.229	7.207	7.257	VV	36069	600229	50.61%	1.374%
87	7.285	7.257	7.316	VV	18993	499267	42.10%	1.143%
88	7.333	7.316	7.352	VV	18202	295690	24.93%	0.677%
89	7.376	7.352	7.412	VV	72095	1087633	91.71%	2.489%

90	7.431	7.412	7.452	VV	20587	377362	31.82%	0.864%
91	7.475	7.452	7.495	VV	25563	429941	36.25%	0.984%
92	7.521	7.495	7.535	VV	16104	348980	29.43%	0.799%
93	7.563	7.535	7.596	VV	18460	540467	45.57%	1.237%
94	7.603	7.596	7.622	VV	12747	192126	16.20%	0.440%
95	7.650	7.622	7.677	VV	16287	438315	36.96%	1.003%
96	7.727	7.677	7.750	VV	21871	765887	64.58%	1.753%
97	7.776	7.750	7.802	VV	36188	715926	60.37%	1.639%
98	7.818	7.802	7.842	VV	16379	289394	24.40%	0.662%
99	7.864	7.842	7.900	VV	17774	437431	36.89%	1.001%
100	7.942	7.900	7.958	VV	25520	600302	50.62%	1.374%
101	7.972	7.958	8.011	VV	18716	407520	34.36%	0.933%
102	8.032	8.011	8.045	VV	18406	273400	23.05%	0.626%
103	8.063	8.045	8.076	VV	27699	381185	32.14%	0.872%
104	8.087	8.076	8.108	VV	26074	353208	29.78%	0.808%
105	8.131	8.108	8.151	VV	26644	444237	37.46%	1.017%
106	8.182	8.151	8.197	VV	15467	364359	30.72%	0.834%
107	8.212	8.197	8.221	VV	14546	187123	15.78%	0.428%
108	8.231	8.221	8.254	VV	15082	242704	20.47%	0.556%
109	8.271	8.254	8.280	VV	11875	161758	13.64%	0.370%
110	8.302	8.280	8.327	VV	58302	774638	65.32%	1.773%
111	8.348	8.327	8.373	VV	14141	325389	27.44%	0.745%
112	8.392	8.373	8.411	VV	15898	275431	23.23%	0.630%
113	8.445	8.411	8.470	VV	13069	422079	35.59%	0.966%
114	8.482	8.470	8.511	VV	12660	283936	23.94%	0.650%
115	8.530	8.511	8.555	VV	18445	338532	28.55%	0.775%
116	8.578	8.555	8.613	VV	15198	421362	35.53%	0.964%
117	8.635	8.613	8.655	VV	20456	375971	31.70%	0.861%
118	8.677	8.655	8.708	VV	11093	311587	26.27%	0.713%
119	8.728	8.708	8.747	VV	10567	204723	17.26%	0.469%
120	8.775	8.747	8.799	VV	11407	291151	24.55%	0.666%
121	8.813	8.799	8.822	VV	8515	103965	8.77%	0.238%
122	8.840	8.822	8.883	VV	15290	415420	35.03%	0.951%
123	8.904	8.883	8.919	VV	14796	260054	21.93%	0.595%
124	8.935	8.919	8.958	VV	19533	306762	25.87%	0.702%
125	8.977	8.958	8.991	VV	13990	219081	18.47%	0.501%
126	9.023	8.991	9.050	VV	43363	686395	57.88%	1.571%
127	9.068	9.050	9.085	VV	8388	163366	13.78%	0.374%
128	9.098	9.085	9.122	VV	8250	143442	12.10%	0.328%
129	9.145	9.122	9.153	VV	7160	118952	10.03%	0.272%
130	9.168	9.153	9.218	VV	9104	260716	21.98%	0.597%
131	9.248	9.218	9.271	VV	9392	248445	20.95%	0.569%
132	9.285	9.271	9.304	VV	7796	145872	12.30%	0.334%
133	9.323	9.304	9.357	VV	7607	214655	18.10%	0.491%
134	9.394	9.357	9.416	VV	9647	225091	18.98%	0.515%
135	9.439	9.416	9.477	VV	6061	186912	15.76%	0.428%
136	9.510	9.477	9.523	VV	4540	111732	9.42%	0.256%
137	9.544	9.523	9.561	VV	5550	105714	8.91%	0.242%
138	9.572	9.561	9.577	VV	4246	39931	3.37%	0.091%
139	9.608	9.577	9.648	VV	5061	175211	14.77%	0.401%
140	9.683	9.648	9.719	VV	11621	278592	23.49%	0.638%
141	9.728	9.719	9.738	VV	4678	53512	4.51%	0.122%

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142	9.763	9.738	9.791	VV	7556	171880	14.49%	0.393%
143	9.845	9.791	9.893	VV	5767	216065	18.22%	0.495%
144	9.925	9.893	9.978	VV	2408	105583	8.90%	0.242%
145	10.004	9.978	10.019	VV	2761	58360	4.92%	0.134%
146	10.044	10.019	10.074	VV	5525	124663	10.51%	0.285%
147	10.090	10.074	10.109	VV	4214	68690	5.79%	0.157%
148	10.117	10.109	10.132	VV	2549	32623	2.75%	0.075%
149	10.162	10.132	10.181	VV	3125	82881	6.99%	0.190%
150	10.191	10.181	10.244	VV	2888	77190	6.51%	0.177%
151	10.262	10.244	10.281	VV	1744	34583	2.92%	0.079%
152	10.301	10.281	10.344	VV	1903	59942	5.05%	0.137%
153	10.365	10.344	10.391	VV	1996	41753	3.52%	0.096%
154	10.401	10.391	10.413	VV	1151	14934	1.26%	0.034%
155	10.436	10.413	10.449	VV	2220	35971	3.03%	0.082%
156	10.476	10.449	10.508	VV	10466	173866	14.66%	0.398%
157	10.524	10.508	10.541	VV	1599	30142	2.54%	0.069%
158	10.553	10.541	10.599	VV	1579	46965	3.96%	0.107%
159	10.622	10.599	10.647	VV	1574	31795	2.68%	0.073%
160	10.659	10.647	10.694	VV	720	18110	1.53%	0.041%
161	10.716	10.694	10.732	VV	855	17490	1.47%	0.040%
162	10.757	10.732	10.784	VV	1579	34004	2.87%	0.078%
163	10.828	10.784	10.865	VV	1620	52824	4.45%	0.121%
164	10.899	10.865	10.929	VV	8212	132000	11.13%	0.302%
165	10.946	10.929	10.979	VV	1198	25941	2.19%	0.059%
166	11.020	10.979	11.030	VV	624	15010	1.27%	0.034%
167	11.046	11.030	11.070	VV	656	12793	1.08%	0.029%
168	11.090	11.070	11.126	VV	553	14544	1.23%	0.033%
169	11.160	11.126	11.187	VV	679	19173	1.62%	0.044%
170	11.222	11.187	11.268	VV	1460	35357	2.98%	0.081%
171	11.307	11.268	11.379	VV	420	19302	1.63%	0.044%
172	11.385	11.379	11.418	VV	258	4797	0.40%	0.011%
173	11.464	11.418	11.500	VV	1096	25309	2.13%	0.058%
174	11.531	11.500	11.587	VV	1680	35312	2.98%	0.081%
175	11.620	11.587	11.658	VV	2851	47965	4.04%	0.110%
176	11.684	11.658	11.714	VV	255	5610	0.47%	0.013%
177	11.729	11.714	11.746	VV	196	2517	0.21%	0.006%
178	11.762	11.746	11.782	VV	178	3461	0.29%	0.008%
179	11.807	11.782	11.869	VV	362	13088	1.10%	0.030%
180	11.896	11.869	11.906	VV	291	3953	0.33%	0.009%
181	11.929	11.906	11.958	VV	395	7648	0.64%	0.018%
182	11.976	11.958	12.001	VV	197	3771	0.32%	0.009%
183	12.024	12.001	12.068	VV	202	5375	0.45%	0.012%
184	12.095	12.068	12.116	VV	207	3956	0.33%	0.009%
185	12.137	12.116	12.151	VV	396	5800	0.49%	0.013%
186	12.179	12.151	12.253	VV	859	29088	2.45%	0.067%
187	12.269	12.253	12.281	VV	192	2351	0.20%	0.005%
188	12.323	12.281	12.343	VV	230	6837	0.58%	0.016%
189	12.348	12.343	12.375	VV	200	2034	0.17%	0.005%
190	12.416	12.375	12.457	PV	310	8715	0.73%	0.020%
191	12.475	12.457	12.546	VV	232	7691	0.65%	0.018%
192	12.580	12.546	12.591	VV	333	6375	0.54%	0.015%
193	12.607	12.591	12.678	VV	347	11674	0.98%	0.027%
194	12.698	12.678	12.734	VV	503	9348	0.79%	0.021%

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195	12.780	12.734	12.808	VV	614	13678	1.15%	0.031%
196	12.840	12.808	12.865	VV	1173	19845	1.67%	0.045%
197	12.877	12.865	12.916	VV	320	6553	0.55%	0.015%
198	12.948	12.916	12.969	VV	306	6195	0.52%	0.014%
199	12.979	12.969	13.014	VV	179	3088	0.26%	0.007%
200	13.027	13.014	13.061	VV	109	1247	0.11%	0.003%
201	13.066	13.061	13.073	PV	107	327	0.03%	0.001%
202	13.100	13.073	13.145	VV	111	3462	0.29%	0.008%
203	13.166	13.145	13.187	VV	222	3106	0.26%	0.007%
204	13.201	13.187	13.218	VV	143	1575	0.13%	0.004%
205	13.286	13.218	13.381	VV	59141	800251	67.48%	1.832%
206	13.393	13.381	13.429	VV	780	16794	1.42%	0.038%
207	13.451	13.429	13.504	VV	948	24158	2.04%	0.055%
208	13.515	13.504	13.542	VV	394	7398	0.62%	0.017%
209	13.557	13.542	13.603	VV	318	8695	0.73%	0.020%
210	13.615	13.603	13.638	VV	231	3680	0.31%	0.008%
211	13.673	13.638	13.706	VV	289	8185	0.69%	0.019%
212	13.725	13.706	13.783	VV	315	7955	0.67%	0.018%
213	13.800	13.783	13.810	VV	227	2747	0.23%	0.006%
214	13.830	13.810	13.850	VV	237	4083	0.34%	0.009%
215	13.944	13.921	13.965	VV	268	4905	0.41%	0.011%
216	15.656	15.627	15.691	VV	2901	45605	3.85%	0.104%
217	15.979	15.863	16.001	VV	573	33197	2.80%	0.076%
218	16.117	16.001	16.128	VV	810	37583	3.17%	0.086%
219	16.221	16.211	16.231	VV	508	5550	0.47%	0.013%
220	16.292	16.231	16.308	VV	459	20683	1.74%	0.047%
221	16.362	16.308	16.401	VV	478	20770	1.75%	0.048%
222	16.477	16.401	16.498	VV	387	17326	1.46%	0.040%
223	16.536	16.498	16.543	VV	250	6469	0.55%	0.015%
224	16.688	16.679	16.713	VV	195	2627	0.22%	0.006%
225	16.775	16.713	16.783	PV	148	2288	0.19%	0.005%
226	16.990	16.783	17.001	PV	161	-2880	-0.24%	-0.007%
227	17.106	17.001	17.143	PV	3459	52462	4.42%	0.120%
228	17.556	17.143	17.586	VV	5339	373895	31.53%	0.856%
229	17.649	17.586	17.658	VV	2429	100101	8.44%	0.229%
230	17.886	17.658	17.915	VV	1830	322349	27.18%	0.738%
231	17.991	17.915	18.053	VV	4165	124724	10.52%	0.285%
232	18.062	18.053	18.083	VV	238	2792	0.24%	0.006%

Sum of corrected areas: 43690544

Aliphatic EPH 110724.M Tue Nov 19 08:25:16 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-12			SDG No.:	P4839
Lab Sample ID:	P4839-04			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.3
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 16:18	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	3.21		1	0.44	1.14	mg/kg	FE051265.D
Aliphatic C12-C16	Aliphatic C12-C16	3.84		1	0.28	0.76	mg/kg	FE051265.D
Aliphatic C16-C21	Aliphatic C16-C21	0.68	J	1	0.34	1.14	mg/kg	FE051265.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.53	mg/kg	FE051265.D
Aliphatic C28-C40	Aliphatic C28-C40	2.69		1	2.06	2.29	mg/kg	FE051265.D
Aromatic C10-C12	Aromatic C10-C12	2.46		1	0.34	0.76	mg/kg	FF015057.D
Aromatic C12-C16	Aromatic C12-C16	3.45		1	0.39	1.14	mg/kg	FF015057.D
Aromatic C16-C21	Aromatic C16-C21	5.75		1	1.10	1.91	mg/kg	FF015057.D
Aromatic C21-C36	Aromatic C21-C36	2.29	U	1	2.29	3.05	mg/kg	FF015057.D
Total AliphaticEPH	Total AliphaticEPH	10.4			4.03	6.86	mg/kg	
Total AromaticEPH	Total AromaticEPH	11.7			4.12	6.86	mg/kg	
Total EPH	Total EPH	22.1			8.15	13.7	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-12			SDG No.:	P4839
Lab Sample ID:	P4839-04			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.3
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 16:18	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	3.21		1	0.44	1.14	mg/kg	FE051265.D
Aliphatic C12-C16	Aliphatic C12-C16	3.84		1	0.28	0.76	mg/kg	FE051265.D
Aliphatic C16-C21	Aliphatic C16-C21	0.68	J	1	0.34	1.14	mg/kg	FE051265.D
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	1	0.92	1.53	mg/kg	FE051265.D
Aliphatic C28-C40	Aliphatic C28-C40	2.69		1	2.06	2.29	mg/kg	FE051265.D
Aromatic C10-C12	Aromatic C10-C12	2.46		1	0.34	0.76	mg/kg	FF015057.D
Aromatic C12-C16	Aromatic C12-C16	3.45		1	0.39	1.14	mg/kg	FF015057.D
Aromatic C16-C21	Aromatic C16-C21	5.75		1	1.10	1.91	mg/kg	FF015057.D
Aromatic C21-C36	Aromatic C21-C36	2.29	U	1	2.29	3.05	mg/kg	FF015057.D
Total AliphaticEPH	Total AliphaticEPH	10.4			4.03	6.86	mg/kg	
Total AromaticEPH	Total AromaticEPH	11.7			4.12	6.86	mg/kg	
Total EPH	Total EPH	22.1			8.15	13.7	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-12		SDG No.:	P4839	
Lab Sample ID:	P4839-04		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.3	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051265.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	3.21		0.44	1.14	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	3.84		0.28	0.76	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.68	J	0.34	1.14	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.92	U	0.92	1.53	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.69		2.06	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	24.7		40 - 140	49%	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:	P4839-04	Acq On:	15 Nov 2024 16:18
Client Sample ID:	EX-9-TPH-12	Operator:	YP\AJ
Data file:	FE051265.D	Misc:	
Instrument:	FID_E	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	5885392	42.064	300	ug/ml
Aliphatic C12-C16	6.754	10.185	7081228	50.352	200	ug/ml
Aliphatic C16-C21	10.186	13.544	1228848	8.92	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1192397	8.902	400	ug/ml
Aliphatic C28-C40	17.201	22.043	4548143	35.326	600	ug/ml
Aliphatic EPH	3.134	22.043	19936008	145.563		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.279	13.279	2804714	24.7		ug/ml
Aliphatic C9-C28	3.134	17.200	15387865	110.238	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051265.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 16:18
Operator : YP\AJ
Sample : P4839-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-12

Integration File: autoint1.e
Quant Time: Nov 16 08:18:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.279	2804714	24.704 ug/ml
Spiked Amount 50.000		Recovery = 49.41%	
Target Compounds			

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

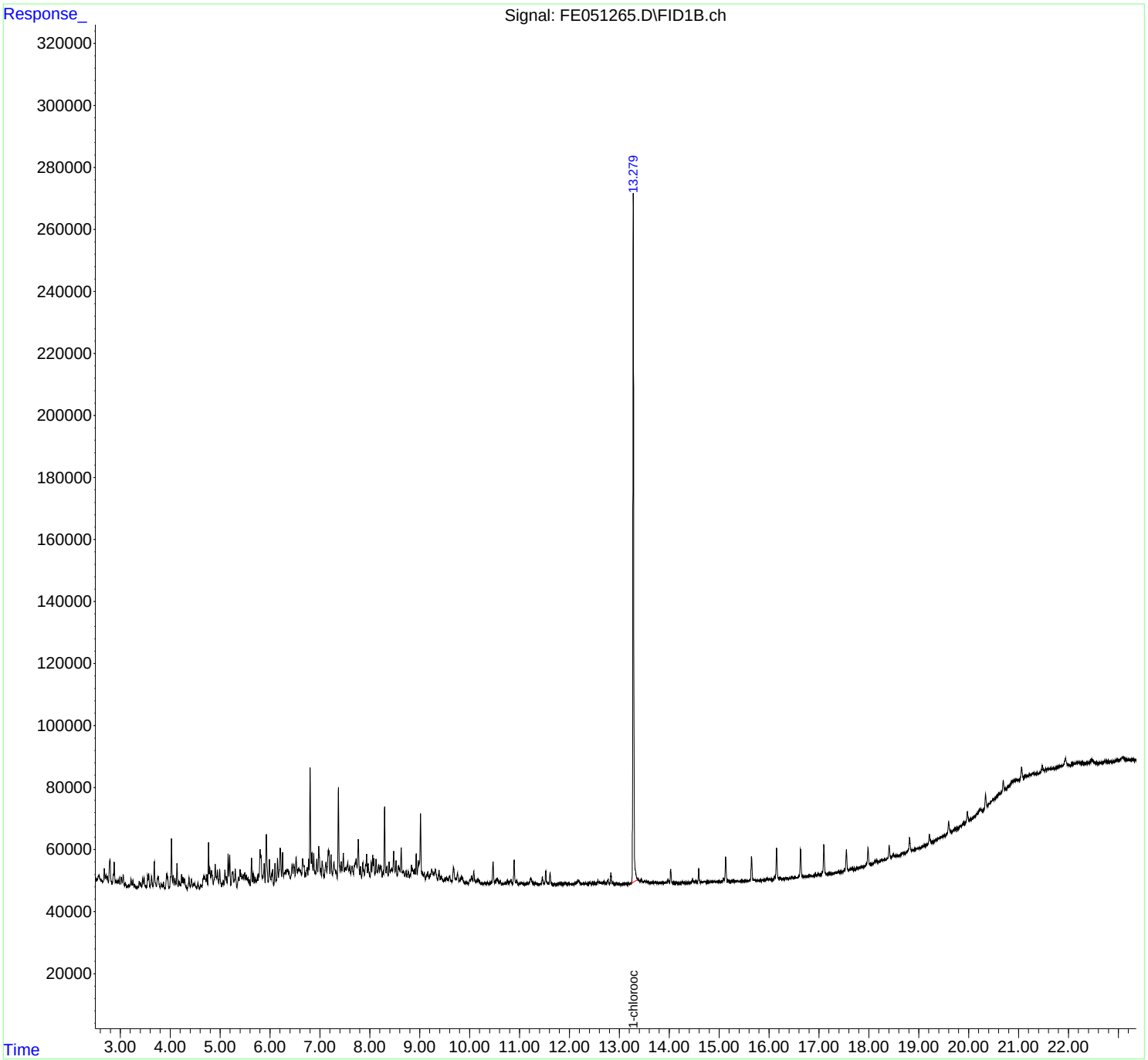
Quantitation Report (QT Reviewed)

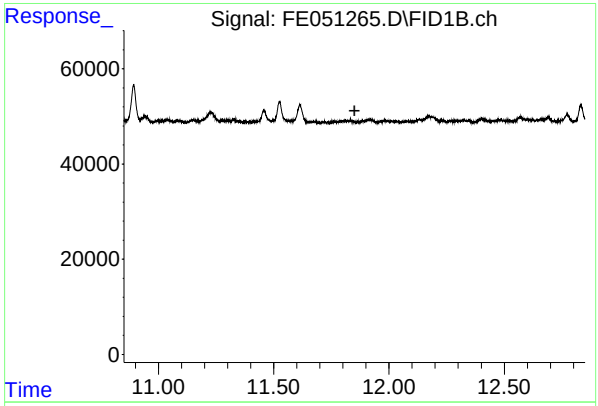
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051265.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 16:18
Operator : YP\AJ
Sample : P4839-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-12

Integration File: autoint1.e
Quant Time: Nov 16 08:18:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

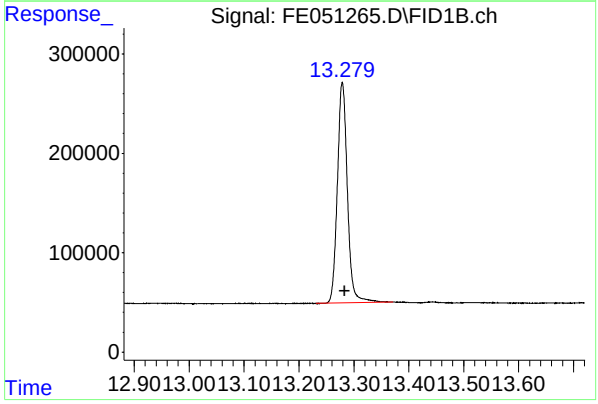




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-12



#12 1-chlorooctadecane (SURR)

R.T.: 13.279 min
Delta R.T.: -0.004 min
Response: 2804714
Conc: 24.70 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051265.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 16:18
Sample : P4839-04
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.252	3.215	3.273	BV	1179	-4132	-0.14%	-0.018%
2	3.289	3.273	3.328	PV	397	4591	0.16%	0.020%
3	3.378	3.328	3.393	PV	2046	26433	0.90%	0.116%
4	3.405	3.393	3.425	VV	1603	19316	0.66%	0.085%
5	3.447	3.425	3.461	VV	3048	36185	1.24%	0.158%
6	3.477	3.461	3.508	VV	3199	47224	1.62%	0.207%
7	3.514	3.508	3.527	VV	646	5580	0.19%	0.024%
8	3.548	3.527	3.558	VV	4173	43241	1.48%	0.189%
9	3.569	3.558	3.595	VV	4533	53025	1.81%	0.232%
10	3.626	3.595	3.658	VV	3826	63339	2.17%	0.277%
11	3.681	3.658	3.725	VV	8455	120144	4.11%	0.526%
12	3.761	3.725	3.797	VV	3847	90184	3.09%	0.395%
13	3.820	3.797	3.850	VV	1314	27977	0.96%	0.122%
14	3.866	3.850	3.893	VV	1996	20883	0.71%	0.091%
15	3.929	3.893	3.976	PV	4732	105912	3.62%	0.463%
16	4.026	4.001	4.046	BV	13558	130150	4.45%	0.569%
17	4.060	4.046	4.078	VV	2528	21998	0.75%	0.096%
18	4.095	4.078	4.114	PV	2175	22918	0.78%	0.100%
19	4.136	4.114	4.159	VV	7199	76602	2.62%	0.335%
20	4.176	4.159	4.207	PV	1778	26034	0.89%	0.114%
21	4.227	4.207	4.242	VV	4178	47694	1.63%	0.209%
22	4.256	4.242	4.271	VV	3383	41069	1.41%	0.180%
23	4.286	4.271	4.313	VV	2861	47969	1.64%	0.210%
24	4.320	4.313	4.341	VV	777	6872	0.24%	0.030%
25	4.377	4.341	4.405	PV	3679	53596	1.83%	0.234%
26	4.425	4.405	4.451	VV	3093	51020	1.75%	0.223%
27	4.466	4.451	4.478	VV	1420	19749	0.68%	0.086%
28	4.492	4.478	4.534	VV	1631	31396	1.07%	0.137%
29	4.555	4.534	4.589	VV	1880	25341	0.87%	0.111%
30	4.613	4.589	4.631	VV	1024	14106	0.48%	0.062%
31	4.672	4.631	4.683	VV	3830	76043	2.60%	0.333%
32	4.694	4.683	4.721	VV	3952	71320	2.44%	0.312%
33	4.735	4.721	4.750	VV	4510	54119	1.85%	0.237%
34	4.769	4.750	4.812	VV	14704	246799	8.45%	1.080%
35	4.828	4.812	4.863	VV	5701	118162	4.04%	0.517%
36	4.902	4.863	4.931	VV	7731	159467	5.46%	0.698%

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37	4.946	4.931	4.975	VV	5876	91184	3.12%	0.399%
38	4.992	4.975	5.029	VV	6070	91954	3.15%	0.402%
39	5.063	5.029	5.077	VV	2376	42318	1.45%	0.185%
40	5.097	5.077	5.114	VV	5705	76993	2.64%	0.337%
41	5.124	5.114	5.139	VV	3631	41012	1.40%	0.179%
42	5.161	5.139	5.176	VV	10837	125700	4.30%	0.550%
43	5.192	5.176	5.217	VV	10406	135705	4.64%	0.594%
44	5.257	5.217	5.275	VV	5136	116875	4.00%	0.511%
45	5.304	5.275	5.337	VV	5831	100303	3.43%	0.439%
46	5.367	5.337	5.380	PV	3151	47134	1.61%	0.206%
47	5.401	5.380	5.436	VV	5696	130210	4.46%	0.570%
48	5.462	5.436	5.475	VV	4004	77349	2.65%	0.338%
49	5.493	5.475	5.510	VV	4521	74960	2.57%	0.328%
50	5.525	5.510	5.547	VV	3760	64952	2.22%	0.284%
51	5.559	5.547	5.573	VV	2628	34026	1.16%	0.149%
52	5.585	5.573	5.604	VV	2383	28009	0.96%	0.123%
53	5.631	5.604	5.650	VV	9171	119043	4.07%	0.521%
54	5.664	5.650	5.682	VV	4330	51600	1.77%	0.226%
55	5.697	5.682	5.728	VV	2954	53373	1.83%	0.234%
56	5.747	5.728	5.759	VV	3211	43597	1.49%	0.191%
57	5.773	5.759	5.780	VV	3915	39517	1.35%	0.173%
58	5.802	5.780	5.857	VV	11691	311663	10.67%	1.363%
59	5.884	5.857	5.901	VV	7156	106656	3.65%	0.467%
60	5.927	5.901	5.966	VV	16511	278368	9.53%	1.218%
61	5.989	5.966	6.018	VV	8329	126116	4.32%	0.552%
62	6.051	6.018	6.078	VV	5054	98806	3.38%	0.432%
63	6.100	6.078	6.118	PV	6865	73897	2.53%	0.323%
64	6.151	6.118	6.171	VV	8310	119315	4.08%	0.522%
65	6.205	6.171	6.232	VV	11435	225901	7.73%	0.988%
66	6.253	6.232	6.273	VV	9840	129203	4.42%	0.565%
67	6.312	6.273	6.324	VV	3953	92361	3.16%	0.404%
68	6.337	6.324	6.347	VV	3801	47538	1.63%	0.208%
69	6.359	6.347	6.375	VV	3917	56254	1.93%	0.246%
70	6.384	6.375	6.407	VV	3117	38399	1.31%	0.168%
71	6.443	6.407	6.461	VV	5036	89822	3.07%	0.393%
72	6.476	6.461	6.504	VV	4865	88331	3.02%	0.386%
73	6.524	6.504	6.549	VV	7140	112859	3.86%	0.494%
74	6.573	6.549	6.631	VV	3334	116237	3.98%	0.509%
75	6.654	6.631	6.701	VBA	6019	135437	4.64%	0.593%
76	6.744	6.701	6.759	BV	2989	50089	1.71%	0.219%
77	6.775	6.759	6.785	VV	5652	53240	1.82%	0.233%
78	6.804	6.785	6.828	VV	35238	404897	13.86%	1.771%
79	6.839	6.828	6.861	VV	7691	101976	3.49%	0.446%
80	6.877	6.861	6.917	VV	7649	106188	3.63%	0.465%
81	6.938	6.917	6.956	VV	5774	78789	2.70%	0.345%
82	6.978	6.956	7.028	VV	10000	197790	6.77%	0.865%
83	7.046	7.028	7.087	VV	5339	85982	2.94%	0.376%
84	7.120	7.087	7.138	PV	4937	86915	2.97%	0.380%
85	7.168	7.138	7.202	VV	8810	212395	7.27%	0.929%
86	7.224	7.202	7.252	VV	7411	109935	3.76%	0.481%
87	7.281	7.252	7.318	VV	5083	115327	3.95%	0.505%
88	7.327	7.318	7.346	VV	2221	23975	0.82%	0.105%
89	7.371	7.346	7.407	VV	29184	356328	12.20%	1.559%

90	7.427	7.407	7.443	VV	5326	80749	2.76%	0.353%
91	7.470	7.443	7.489	VV	8009	129077	4.42%	0.565%
92	7.517	7.489	7.531	VV	3573	77106	2.64%	0.337%
93	7.558	7.531	7.583	VV	5205	114260	3.91%	0.500%
94	7.599	7.583	7.619	VV	4058	63167	2.16%	0.276%
95	7.645	7.619	7.672	VV	3955	87873	3.01%	0.384%
96	7.724	7.672	7.745	VV	6332	192229	6.58%	0.841%
97	7.771	7.745	7.798	VV	12795	214923	7.36%	0.940%
98	7.814	7.798	7.836	VV	3976	51364	1.76%	0.225%
99	7.860	7.836	7.896	VV	5325	97941	3.35%	0.428%
100	7.937	7.896	7.953	VV	8088	156450	5.35%	0.684%
101	7.967	7.953	8.005	VV	5038	87217	2.99%	0.382%
102	8.028	8.005	8.041	VV	5594	68507	2.34%	0.300%
103	8.059	8.041	8.071	VV	7785	96894	3.32%	0.424%
104	8.082	8.071	8.101	VV	6801	79701	2.73%	0.349%
105	8.126	8.101	8.146	VV	6664	103621	3.55%	0.453%
106	8.175	8.146	8.191	VV	4701	95431	3.27%	0.417%
107	8.206	8.191	8.218	VV	4622	60567	2.07%	0.265%
108	8.226	8.218	8.249	VV	4409	55636	1.90%	0.243%
109	8.266	8.249	8.275	VV	2916	32791	1.12%	0.143%
110	8.297	8.275	8.322	VV	23698	280692	9.61%	1.228%
111	8.343	8.322	8.368	VV	4467	88031	3.01%	0.385%
112	8.387	8.368	8.407	VV	5914	87362	2.99%	0.382%
113	8.439	8.407	8.456	VV	3747	97795	3.35%	0.428%
114	8.478	8.456	8.508	VV	9347	164465	5.63%	0.720%
115	8.526	8.508	8.549	VV	6468	95360	3.26%	0.417%
116	8.573	8.549	8.585	VV	4832	71933	2.46%	0.315%
117	8.592	8.585	8.607	VV	4028	48282	1.65%	0.211%
118	8.630	8.607	8.651	VV	10679	153491	5.25%	0.672%
119	8.673	8.651	8.701	VV	3113	75710	2.59%	0.331%
120	8.723	8.701	8.743	VV	3094	54994	1.88%	0.241%
121	8.771	8.743	8.794	VV	3068	66322	2.27%	0.290%
122	8.808	8.794	8.817	VV	2132	23162	0.79%	0.101%
123	8.835	8.817	8.848	VV	5180	67420	2.31%	0.295%
124	8.857	8.848	8.881	VV	3773	66609	2.28%	0.291%
125	8.900	8.881	8.912	VV	4006	60378	2.07%	0.264%
126	8.930	8.912	8.951	VV	8927	121115	4.15%	0.530%
127	8.972	8.951	8.984	VV	6719	99387	3.40%	0.435%
128	9.017	8.984	9.047	VV	21774	346472	11.86%	1.516%
129	9.056	9.047	9.077	VV	2646	42738	1.46%	0.187%
130	9.093	9.077	9.117	VV	3007	47804	1.64%	0.209%
131	9.139	9.117	9.148	VV	2280	31648	1.08%	0.138%
132	9.164	9.148	9.182	VV	3273	49844	1.71%	0.218%
133	9.196	9.182	9.205	VV	1941	24489	0.84%	0.107%
134	9.240	9.205	9.288	VV	4058	142720	4.88%	0.624%
135	9.315	9.288	9.353	VV	4241	108852	3.73%	0.476%
136	9.388	9.353	9.411	VV	3814	71828	2.46%	0.314%
137	9.436	9.411	9.475	VV	1966	46937	1.61%	0.205%
138	9.507	9.475	9.519	VV	1285	23934	0.82%	0.105%
139	9.539	9.519	9.555	VV	1732	28661	0.98%	0.125%
140	9.565	9.555	9.574	VV	1212	11829	0.40%	0.052%
141	9.603	9.574	9.645	VV	2272	52537	1.80%	0.230%

rteres

142	9.677	9.645	9.712	VV	5080	105762	3.62%	0.463%
143	9.726	9.712	9.733	VV	1416	16260	0.56%	0.071%
144	9.758	9.733	9.787	VV	3188	62228	2.13%	0.272%
145	9.840	9.787	9.851	VV	2375	53025	1.81%	0.232%
146	9.862	9.851	9.890	VV	2008	26024	0.89%	0.114%
147	9.917	9.890	9.937	VV	303	6799	0.23%	0.030%
148	9.957	9.937	9.975	VV	219	3061	0.10%	0.013%
149	10.004	9.975	10.017	PV	1308	18955	0.65%	0.083%
150	10.038	10.017	10.065	VV	2455	45313	1.55%	0.198%
151	10.084	10.065	10.127	VV	4103	64463	2.21%	0.282%
152	10.149	10.127	10.173	VV	1148	27487	0.94%	0.120%
153	10.184	10.173	10.230	VV	1213	19809	0.68%	0.087%
154	10.256	10.230	10.277	VV	323	4737	0.16%	0.021%
155	10.296	10.277	10.305	VV	381	4377	0.15%	0.019%
156	10.317	10.305	10.341	VV	510	5748	0.20%	0.025%
157	10.358	10.341	10.381	VV	652	7919	0.27%	0.035%
158	10.402	10.381	10.413	PV	332	3047	0.10%	0.013%
159	10.432	10.413	10.442	VV	641	7213	0.25%	0.032%
160	10.471	10.442	10.500	VV	7265	107254	3.67%	0.469%
161	10.544	10.500	10.597	VV	1722	60698	2.08%	0.266%
162	10.616	10.597	10.642	VV	1081	15480	0.53%	0.068%
163	10.675	10.642	10.694	VV	290	5885	0.20%	0.026%
164	10.717	10.694	10.729	VV	426	7074	0.24%	0.031%
165	10.753	10.729	10.785	VV	1295	22789	0.78%	0.100%
166	10.823	10.785	10.857	VV	1480	36160	1.24%	0.158%
167	10.893	10.857	10.921	VV	7854	114664	3.92%	0.502%
168	10.944	10.921	10.975	VV	1232	23295	0.80%	0.102%
169	11.011	10.975	11.020	VV	388	7053	0.24%	0.031%
170	11.037	11.020	11.068	VV	536	10563	0.36%	0.046%
171	11.083	11.068	11.120	VV	391	7006	0.24%	0.031%
172	11.151	11.120	11.177	PV	549	11708	0.40%	0.051%
173	11.228	11.177	11.264	VV	2174	57339	1.96%	0.251%
174	11.275	11.264	11.291	VV	611	7360	0.25%	0.032%
175	11.300	11.291	11.311	VV	539	5167	0.18%	0.023%
176	11.327	11.311	11.366	VV	756	12829	0.44%	0.056%
177	11.378	11.366	11.401	VV	221	3420	0.12%	0.015%
178	11.458	11.401	11.491	VV	2606	45543	1.56%	0.199%
179	11.525	11.491	11.585	VV	4520	76571	2.62%	0.335%
180	11.614	11.585	11.668	VV	3844	64396	2.20%	0.282%
181	11.677	11.668	11.702	VV	338	3657	0.13%	0.016%
182	11.720	11.702	11.741	PV	207	3201	0.11%	0.014%
183	11.834	11.741	11.865	VV	496	22550	0.77%	0.099%
184	11.914	11.865	11.948	VV	755	21679	0.74%	0.095%
185	11.985	11.948	12.061	VV	506	20216	0.69%	0.088%
186	12.081	12.061	12.107	VV	369	7653	0.26%	0.033%
187	12.133	12.107	12.145	VV	747	11866	0.41%	0.052%
188	12.173	12.145	12.250	VV	1429	49687	1.70%	0.217%
189	12.262	12.250	12.281	VV	354	5327	0.18%	0.023%
190	12.294	12.281	12.303	VV	411	4534	0.16%	0.020%
191	12.322	12.303	12.364	VV	607	13639	0.47%	0.060%
192	12.405	12.364	12.441	VV	744	20277	0.69%	0.089%
193	12.484	12.441	12.541	VV	584	23105	0.79%	0.101%
194	12.568	12.541	12.634	VV	1201	36483	1.25%	0.160%

195	12.659	12.634	12.671	VV	657	12473	0.43%	0.055%
196	12.691	12.671	12.724	VV	1110	19755	0.68%	0.086%
197	12.772	12.724	12.808	VV	1647	33228	1.14%	0.145%
198	12.832	12.808	12.910	VV	3685	60473	2.07%	0.265%
199	12.947	12.910	12.966	VV	445	10504	0.36%	0.046%
200	12.972	12.966	13.028	VV	339	4465	0.15%	0.020%
201	13.110	13.028	13.138	PV	237	7514	0.26%	0.033%
202	13.156	13.138	13.175	VV	250	3661	0.13%	0.016%
203	13.279	13.175	13.421	VV	222909	2921787	100.00%	12.782%
204	13.443	13.421	13.491	VV	1663	43956	1.50%	0.192%
205	13.514	13.491	13.627	VV	1012	53650	1.84%	0.235%
206	13.660	13.627	13.693	VV	539	17808	0.61%	0.078%
207	13.715	13.693	13.756	VV	742	18655	0.64%	0.082%
208	13.793	13.756	13.810	VV	419	10439	0.36%	0.046%
209	13.821	13.810	13.843	VV	413	6423	0.22%	0.028%
210	13.884	13.843	13.914	VV	454	14872	0.51%	0.065%
211	13.939	13.914	13.955	VV	434	9059	0.31%	0.040%
212	13.977	13.955	14.002	VV	1382	22219	0.76%	0.097%
213	14.028	14.002	14.146	VV	4609	74644	2.55%	0.327%
214	14.162	14.146	14.183	VV	256	3622	0.12%	0.016%
215	14.195	14.183	14.228	VV	129	1774	0.06%	0.008%
216	14.260	14.228	14.285	PV	381	8232	0.28%	0.036%
217	14.296	14.285	14.374	VV	252	8427	0.29%	0.037%
218	14.391	14.374	14.425	VV	254	5361	0.18%	0.023%
219	14.470	14.425	14.500	VV	1151	22744	0.78%	0.100%
220	14.537	14.500	14.562	VV	558	14667	0.50%	0.064%
221	14.590	14.562	14.634	VV	4546	62833	2.15%	0.275%
222	14.662	14.634	14.681	VV	249	6120	0.21%	0.027%
223	14.712	14.681	14.769	VV	381	13122	0.45%	0.057%
224	14.785	14.769	14.815	VV	194	3427	0.12%	0.015%
225	14.841	14.815	14.853	VV	240	3971	0.14%	0.017%
226	14.878	14.853	14.918	VV	347	9643	0.33%	0.042%
227	14.935	14.918	14.958	VV	201	4162	0.14%	0.018%
228	14.982	14.958	15.021	VV	293	7394	0.25%	0.032%
229	15.027	15.021	15.045	VV	169	1430	0.05%	0.006%
230	15.086	15.045	15.105	VV	1245	20174	0.69%	0.088%
231	15.130	15.105	15.202	VV	8157	120450	4.12%	0.527%
232	15.209	15.202	15.224	VV	168	1760	0.06%	0.008%
233	15.244	15.224	15.281	VV	147	3462	0.12%	0.015%
234	15.325	15.281	15.355	VV	210	5893	0.20%	0.026%
235	15.365	15.355	15.421	VV	120	2133	0.07%	0.009%
236	15.464	15.421	15.490	PV	157	2554	0.09%	0.011%
237	15.513	15.490	15.528	VV	131	2074	0.07%	0.009%
238	15.560	15.528	15.583	VV	178	2625	0.09%	0.011%
239	15.648	15.583	15.705	VV	7857	119312	4.08%	0.522%
240	15.714	15.705	15.748	VV	251	3667	0.13%	0.016%
241	15.779	15.748	15.801	PV	162	2588	0.09%	0.011%
242	15.819	15.801	15.845	VV	114	1414	0.05%	0.006%
243	15.883	15.845	15.905	VV	131	2500	0.09%	0.011%
244	15.969	15.905	16.000	VV	497	11519	0.39%	0.050%
245	16.012	16.000	16.058	VV	219	4064	0.14%	0.018%
246	16.111	16.058	16.122	PV	1020	14928	0.51%	0.065%

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247	16.149	16.122	16.248	VV	10135	152020	5.20%	0.665%
248	16.271	16.248	16.300	VV	162	3165	0.11%	0.014%
249	16.343	16.300	16.384	VV	215	4765	0.16%	0.021%
250	16.462	16.384	16.484	PV	430	8642	0.30%	0.038%
251	16.509	16.484	16.533	VV	299	5389	0.18%	0.024%
252	16.539	16.533	16.556	VV	139	1151	0.04%	0.005%
253	16.631	16.556	16.704	PV	9156	146338	5.01%	0.640%
254	16.715	16.704	16.744	VV	234	3942	0.13%	0.017%
255	16.769	16.744	16.777	VV	196	3254	0.11%	0.014%
256	16.840	16.777	16.867	VV	299	11010	0.38%	0.048%
257	16.931	16.867	16.951	VV	499	9702	0.33%	0.042%
258	16.979	16.951	17.002	VV	435	7600	0.26%	0.033%
259	17.018	17.002	17.034	VV	173	2012	0.07%	0.009%
260	17.097	17.034	17.165	PV	9774	154238	5.28%	0.675%
261	17.188	17.165	17.245	VV	235	7004	0.24%	0.031%
262	17.267	17.245	17.278	PV	157	2018	0.07%	0.009%
263	17.333	17.278	17.358	VV	382	7190	0.25%	0.031%
264	17.388	17.358	17.415	PV	435	6193	0.21%	0.027%
265	17.433	17.415	17.457	VV	325	3723	0.13%	0.016%
266	17.549	17.457	17.602	VV	6912	115211	3.94%	0.504%
267	17.645	17.602	17.689	VV	459	14845	0.51%	0.065%
268	17.751	17.689	17.771	VV	166	5719	0.20%	0.025%
269	17.830	17.771	17.853	VV	435	6384	0.22%	0.028%
270	17.878	17.853	17.907	PV	339	4864	0.17%	0.021%
271	17.983	17.907	18.018	PV	5787	99945	3.42%	0.437%
272	18.028	18.018	18.038	VV	309	3068	0.11%	0.013%
273	18.049	18.038	18.061	VV	238	2263	0.08%	0.010%
274	18.123	18.061	18.137	VV	963	19114	0.65%	0.084%
275	18.149	18.137	18.191	VV	653	14081	0.48%	0.062%
276	18.258	18.191	18.285	VV	469	12416	0.42%	0.054%
277	18.323	18.285	18.341	VV	237	8158	0.28%	0.036%
278	18.406	18.341	18.441	VV	4394	73887	2.53%	0.323%
279	18.489	18.441	18.514	VV	1216	25218	0.86%	0.110%
280	18.528	18.514	18.539	VV	328	4067	0.14%	0.018%
281	18.553	18.539	18.582	VV	234	3934	0.13%	0.017%
282	18.681	18.582	18.694	PV	288	7810	0.27%	0.034%
283	18.815	18.694	18.890	VV	4600	99937	3.42%	0.437%
284	18.914	18.890	18.939	VV	392	8033	0.27%	0.035%
285	18.960	18.939	18.994	VV	426	6684	0.23%	0.029%
286	19.009	18.994	19.018	PV	158	670	0.02%	0.003%
287	19.122	19.018	19.131	PV	139	7504	0.26%	0.033%
288	19.213	19.131	19.265	VV	3023	54139	1.85%	0.237%
289	19.462	19.265	19.474	PV	313	18918	0.65%	0.083%
290	19.507	19.474	19.518	VV	254	4327	0.15%	0.019%
291	19.598	19.518	19.656	PV	3861	75294	2.58%	0.329%
292	19.722	19.656	19.746	VV	468	12393	0.42%	0.054%
293	19.973	19.746	20.008	VV	3739	98996	3.39%	0.433%
294	20.241	20.008	20.287	VV	2086	190341	6.51%	0.833%
295	20.338	20.287	20.371	VV	6100	140610	4.81%	0.615%
296	20.618	20.371	20.626	VV	3816	435919	14.92%	1.907%
297	20.692	20.626	20.731	VV	7228	292152	10.00%	1.278%
298	20.871	20.731	20.888	VV	5497	423966	14.51%	1.855%
299	20.921	20.888	20.951	VV	5189	191594	6.56%	0.838%

rteres

300	20.976	20.951	21.005	VV	4961	153374	5.25%	0.671%
301	21.060	21.005	21.095	VV	8190	307989	10.54%	1.347%
302	21.305	21.095	21.338	VV	4117	619916	21.22%	2.712%
303	21.373	21.338	21.383	VV	3421	91094	3.12%	0.399%
304	21.473	21.383	21.508	VV	4822	264827	9.06%	1.159%
305	21.765	21.508	21.776	VV	1906	390484	13.36%	1.708%
306	21.781	21.776	21.789	VV	1745	13085	0.45%	0.057%
307	21.849	21.789	21.864	VV	1466	68547	2.35%	0.300%
308	21.940	21.864	22.038	VV	3151	137242	4.70%	0.600%

Sum of corrected areas: 22857799

Aliphatic EPH 110724.M Sat Nov 16 11:25:21 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-12		SDG No.:	P4839	
Lab Sample ID:	P4839-04		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.3	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015057.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	2.46		0.34	0.76	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.45		0.39	1.14	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.75		1.10	1.91	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.29	U	2.29	3.05	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	63.6		40 - 140	127%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.6		40 - 140	125%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.4		40 - 140	57%	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:	P4839-04	Acq On:	15 Nov 2024 13:18
Client Sample ID:	EX-9-TPH-12	Operator:	YP\AJ
Data file:	FF015057.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	4.507	6.371	4415345	32.279	200	ug/ml
Aromatic C12-C16	6.372	9.062	6104169	45.209	300	ug/ml
Aromatic C16-C21	9.063	13.374	9643602	75.403	500	ug/ml
Aromatic C21-C36	13.375	18.817	2655467	21.789	800	ug/ml
Aromatic EPH	4.507	18.817	22818583	174.68		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7770310	63.63		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	5113934	62.64		ug/ml
ortho-Terphenyl (SURR)	11.925	11.925	3814073	28.43		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015057.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:18
Operator : YP\AJ
Sample : P4839-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-12

Integration File: autoint1.e
Quant Time: Nov 15 13:50:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7770310	63.630 ug/ml
Spiked Amount 50.000		Recovery = 127.26%	
6) S 2-Flurobiphenyl (SURR)	8.867	5113934	62.639 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 125.28%	
11) S ortho-Terphenyl (SURR)	11.925	3814073	28.432 ug/ml
Spiked Amount 50.000		Recovery = 56.86%	
Target Compounds			

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

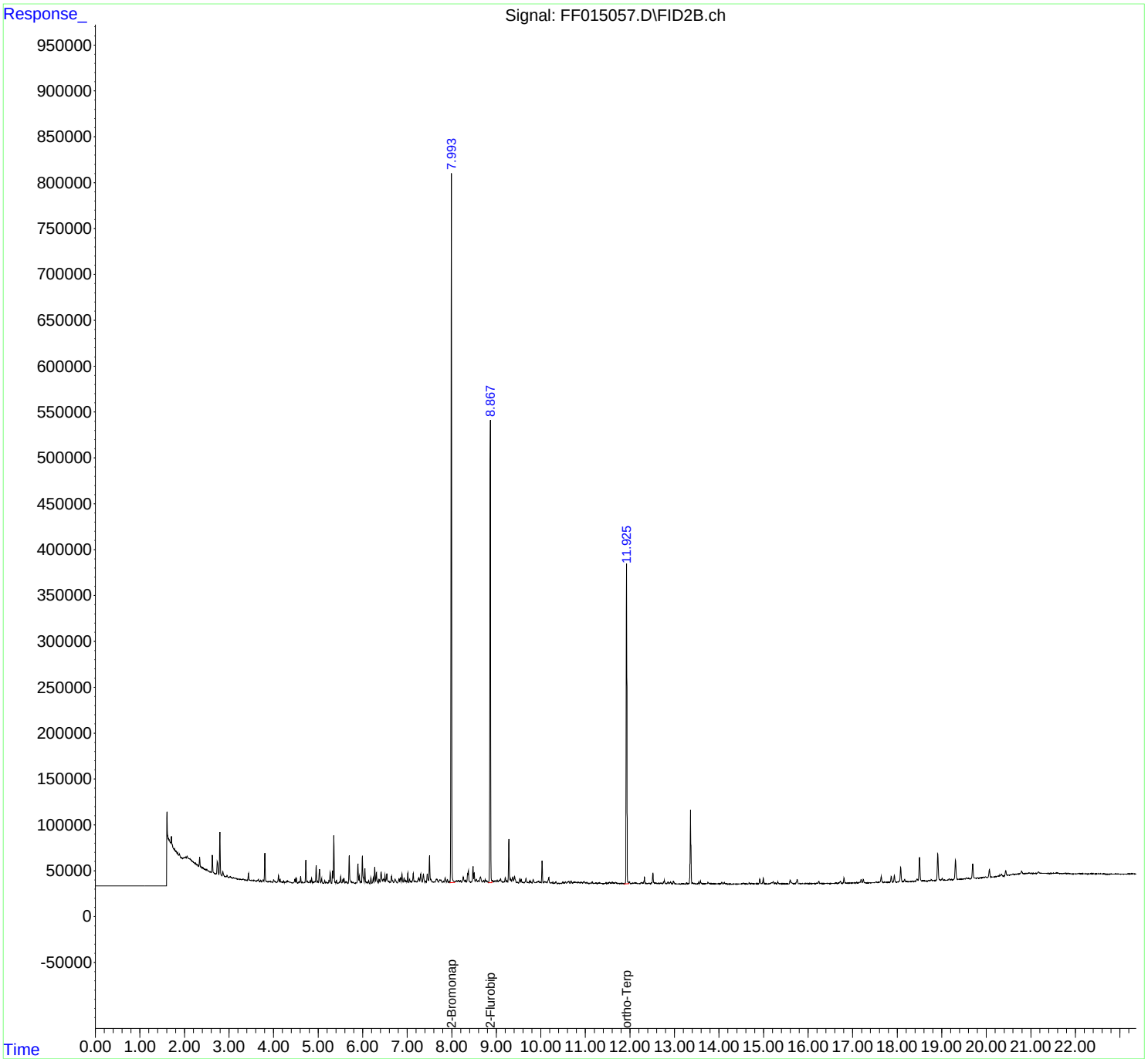
Quantitation Report (QT Reviewed)

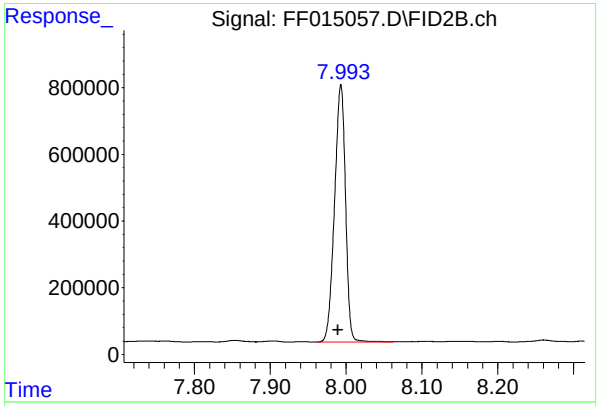
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015057.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:18
Operator : YP\AJ
Sample : P4839-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-12

Integration File: autoint1.e
Quant Time: Nov 15 13:50:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

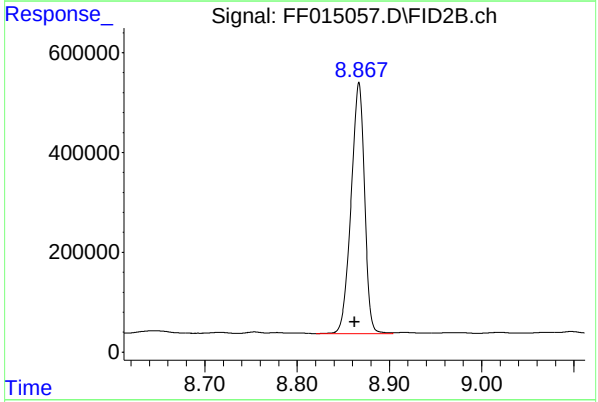




#4 2-Bromonaphthalene (SURR)

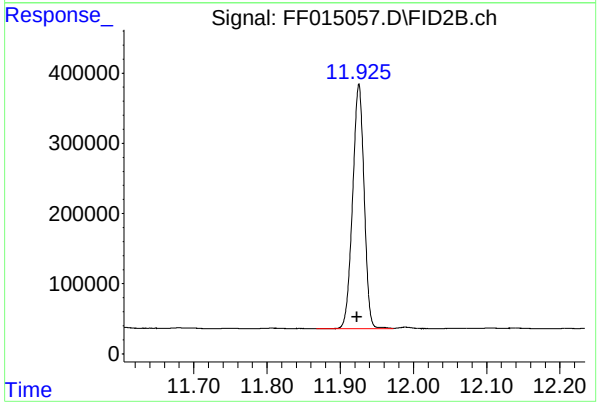
R.T.: 7.993 min
Delta R.T.: 0.004 min
Response: 7770310
Conc: 63.63 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-12



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.004 min
Response: 5113934
Conc: 62.64 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.002 min
Response: 3814073
Conc: 28.43 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015057.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:18
Sample : P4839-04
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.481	4.410	4.496	BV	4211	46602	0.59%	0.130%
2	4.512	4.496	4.539	VV	5353	54652	0.70%	0.152%
3	4.572	4.539	4.590	VV	1665	20521	0.26%	0.057%
4	4.609	4.590	4.630	VV	7141	69200	0.88%	0.193%
5	4.646	4.630	4.665	VV	1359	14119	0.18%	0.039%
6	4.698	4.665	4.702	PV	521	6853	0.09%	0.019%
7	4.725	4.702	4.748	VV	25047	250552	3.19%	0.698%
8	4.759	4.748	4.779	VV	2324	28336	0.36%	0.079%
9	4.788	4.779	4.805	VV	856	11735	0.15%	0.033%
10	4.823	4.805	4.838	VV	2977	32236	0.41%	0.090%
11	4.855	4.838	4.871	VV	5664	57302	0.73%	0.160%
12	4.882	4.871	4.900	VV	1512	19104	0.24%	0.053%
13	4.930	4.900	4.939	VV	2048	32052	0.41%	0.089%
14	4.957	4.939	4.978	VV	19402	196487	2.50%	0.547%
15	4.988	4.978	5.003	VV	1879	21441	0.27%	0.060%
16	5.033	5.003	5.057	VV	15354	221992	2.82%	0.618%
17	5.080	5.057	5.122	VV	5128	62626	0.80%	0.174%
18	5.150	5.122	5.167	VV	3423	35599	0.45%	0.099%
19	5.183	5.167	5.203	VV	1518	19354	0.25%	0.054%
20	5.214	5.203	5.224	VV	723	7424	0.09%	0.021%
21	5.245	5.224	5.255	VV	3259	34075	0.43%	0.095%
22	5.272	5.255	5.302	VV	12197	141379	1.80%	0.394%
23	5.326	5.302	5.338	PV	13986	138497	1.76%	0.386%
24	5.354	5.338	5.377	VV	52235	508588	6.47%	1.416%
25	5.387	5.377	5.399	VV	1740	18124	0.23%	0.050%
26	5.412	5.399	5.430	VV	3722	36157	0.46%	0.101%
27	5.449	5.430	5.461	VV	689	8285	0.11%	0.023%
28	5.480	5.461	5.490	VV	1577	20075	0.26%	0.056%
29	5.508	5.490	5.536	VV	7669	86479	1.10%	0.241%
30	5.557	5.536	5.570	VV	4316	50849	0.65%	0.142%
31	5.583	5.570	5.602	VV	5353	58947	0.75%	0.164%
32	5.625	5.602	5.639	VV	2368	32034	0.41%	0.089%
33	5.646	5.639	5.663	VV	1812	16537	0.21%	0.046%
34	5.669	5.663	5.677	VV	457	3701	0.05%	0.010%
35	5.699	5.677	5.739	VV	30984	357600	4.55%	0.996%
36	5.749	5.739	5.764	VV	2285	24986	0.32%	0.070%

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37	5.777	5.764	5.819	VV	1678	33262	0.42%	0.093%
38	5.833	5.819	5.841	VV	657	6714	0.09%	0.019%
39	5.894	5.841	5.916	VV	21712	269835	3.43%	0.751%
40	5.928	5.916	5.947	VV	8965	93511	1.19%	0.260%
41	5.964	5.947	5.975	VV	2750	33313	0.42%	0.093%
42	5.995	5.975	6.034	VV	30490	404284	5.14%	1.126%
43	6.051	6.034	6.082	VV	16742	183833	2.34%	0.512%
44	6.092	6.082	6.105	VV	1937	20736	0.26%	0.058%
45	6.136	6.105	6.161	VV	3487	55543	0.71%	0.155%
46	6.187	6.161	6.209	PV	6506	71027	0.90%	0.198%
47	6.240	6.209	6.255	VV	6856	87933	1.12%	0.245%
48	6.272	6.255	6.292	VV	18477	205897	2.62%	0.573%
49	6.310	6.292	6.350	VV	12289	179687	2.29%	0.500%
50	6.370	6.350	6.391	VV	5003	71872	0.91%	0.200%
51	6.414	6.391	6.447	VV	12703	227295	2.89%	0.633%
52	6.460	6.447	6.469	VV	4964	55694	0.71%	0.155%
53	6.474	6.469	6.487	VV	4714	44731	0.57%	0.125%
54	6.502	6.487	6.519	VV	9866	111049	1.41%	0.309%
55	6.545	6.519	6.580	VV	11088	192917	2.45%	0.537%
56	6.588	6.580	6.602	VV	2697	30641	0.39%	0.085%
57	6.607	6.602	6.621	VV	2153	21352	0.27%	0.059%
58	6.649	6.621	6.669	VV	8430	123492	1.57%	0.344%
59	6.675	6.669	6.695	VV	3449	39208	0.50%	0.109%
60	6.729	6.695	6.781	VV	5322	134916	1.72%	0.376%
61	6.817	6.781	6.832	VV	5642	95016	1.21%	0.265%
62	6.851	6.832	6.867	VV	6539	100177	1.27%	0.279%
63	6.884	6.867	6.907	VV	10860	141292	1.80%	0.393%
64	6.932	6.907	6.948	VV	6261	96795	1.23%	0.270%
65	6.959	6.948	6.972	VV	3893	44315	0.56%	0.123%
66	6.984	6.972	6.996	VV	3035	37055	0.47%	0.103%
67	7.015	6.996	7.035	VV	11926	133015	1.69%	0.370%
68	7.055	7.035	7.082	VV	4851	85118	1.08%	0.237%
69	7.092	7.082	7.105	VV	2800	32171	0.41%	0.090%
70	7.137	7.105	7.162	VV	11785	178076	2.27%	0.496%
71	7.177	7.162	7.196	VV	3347	53168	0.68%	0.148%
72	7.207	7.196	7.213	VV	2181	22023	0.28%	0.061%
73	7.219	7.213	7.225	VV	2242	15361	0.20%	0.043%
74	7.263	7.225	7.283	VV	6835	156531	1.99%	0.436%
75	7.304	7.283	7.338	VV	10897	191231	2.43%	0.532%
76	7.365	7.338	7.400	VV	10504	199707	2.54%	0.556%
77	7.416	7.400	7.431	VV	3142	43064	0.55%	0.120%
78	7.452	7.431	7.481	VV	10728	179501	2.28%	0.500%
79	7.502	7.481	7.527	VV	31011	373244	4.75%	1.039%
80	7.533	7.527	7.567	VV	4964	82675	1.05%	0.230%
81	7.578	7.567	7.591	VV	2387	32174	0.41%	0.090%
82	7.608	7.591	7.624	VV	2430	41573	0.53%	0.116%
83	7.655	7.624	7.665	VV	5308	90902	1.16%	0.253%
84	7.673	7.665	7.703	VV	4949	78340	1.00%	0.218%
85	7.732	7.703	7.753	VV	4423	108648	1.38%	0.303%
86	7.762	7.753	7.790	VV	4163	69056	0.88%	0.192%
87	7.805	7.790	7.812	VV	2214	27267	0.35%	0.076%
88	7.818	7.812	7.830	VV	2277	22636	0.29%	0.063%
89	7.853	7.830	7.884	VV	6727	123193	1.57%	0.343%

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90	7.904	7.884	7.924	VV	4805	76327	0.97%	0.213%
91	7.941	7.924	7.960	VV	2828	44034	0.56%	0.123%
92	7.993	7.960	8.062	VV	775183	7861856	100.00%	21.892%
93	8.107	8.062	8.124	VV	3366	101930	1.30%	0.284%
94	8.143	8.124	8.154	VV	3732	56308	0.72%	0.157%
95	8.160	8.154	8.185	VV	3433	55271	0.70%	0.154%
96	8.201	8.185	8.220	VV	3635	57322	0.73%	0.160%
97	8.260	8.220	8.296	VV	7768	185413	2.36%	0.516%
98	8.310	8.296	8.326	VV	4320	56907	0.72%	0.158%
99	8.359	8.326	8.364	VV	11299	127688	1.62%	0.356%
100	8.374	8.364	8.425	VV	14517	218590	2.78%	0.609%
101	8.479	8.425	8.494	VV	18892	274620	3.49%	0.765%
102	8.506	8.494	8.527	VV	12165	145351	1.85%	0.405%
103	8.553	8.527	8.578	VV	4950	113543	1.44%	0.316%
104	8.597	8.578	8.615	VV	3855	70884	0.90%	0.197%
105	8.645	8.615	8.695	VV	7206	213575	2.72%	0.595%
106	8.716	8.695	8.735	VV	4027	71746	0.91%	0.200%
107	8.754	8.735	8.767	VV	5006	67582	0.86%	0.188%
108	8.778	8.767	8.795	VV	3650	51715	0.66%	0.144%
109	8.803	8.795	8.821	VV	2648	33304	0.42%	0.093%
110	8.867	8.821	8.904	VV	505937	5185250	65.95%	14.439%
111	8.917	8.904	8.943	VV	3916	75567	0.96%	0.210%
112	8.976	8.943	8.997	VV	3546	95615	1.22%	0.266%
113	9.020	8.997	9.037	VV	4258	76258	0.97%	0.212%
114	9.074	9.037	9.082	VV	4019	88501	1.13%	0.246%
115	9.097	9.082	9.117	VV	5724	91672	1.17%	0.255%
116	9.124	9.117	9.141	VV	2898	34670	0.44%	0.097%
117	9.159	9.141	9.168	VV	2246	32559	0.41%	0.091%
118	9.203	9.168	9.225	VV	7103	128028	1.63%	0.357%
119	9.239	9.225	9.257	VV	3688	55593	0.71%	0.155%
120	9.284	9.257	9.317	VV	48984	584935	7.44%	1.629%
121	9.328	9.317	9.344	VV	4861	65875	0.84%	0.183%
122	9.372	9.344	9.389	VV	7628	143374	1.82%	0.399%
123	9.414	9.389	9.455	VV	8108	185431	2.36%	0.516%
124	9.470	9.455	9.491	VV	2172	37889	0.48%	0.106%
125	9.531	9.491	9.548	VV	6015	101141	1.29%	0.282%
126	9.562	9.548	9.600	VV	4901	81471	1.04%	0.227%
127	9.613	9.600	9.630	VV	1884	28046	0.36%	0.078%
128	9.667	9.630	9.700	VV	5897	119205	1.52%	0.332%
129	9.714	9.700	9.732	VV	1911	30289	0.39%	0.084%
130	9.751	9.732	9.765	VV	3387	48879	0.62%	0.136%
131	9.777	9.765	9.803	VV	2428	39903	0.51%	0.111%
132	9.831	9.803	9.866	VV	4898	100392	1.28%	0.280%
133	9.871	9.866	9.884	VV	1522	15402	0.20%	0.043%
134	9.901	9.884	9.916	VV	2141	34090	0.43%	0.095%
135	9.930	9.916	9.942	VV	2672	35480	0.45%	0.099%
136	9.956	9.942	9.976	VV	3143	47111	0.60%	0.131%
137	9.997	9.976	10.008	VV	2277	35066	0.45%	0.098%
138	10.030	10.008	10.056	VV	25263	283554	3.61%	0.790%
139	10.081	10.056	10.117	VV	2672	77975	0.99%	0.217%
140	10.123	10.117	10.143	VV	2163	26461	0.34%	0.074%
141	10.180	10.143	10.219	VV	7232	146938	1.87%	0.409%

142	10.234	10.219	10.254	VV	1419	26120	0.33%	0.073%
143	10.269	10.254	10.307	VV	1655	36806	0.47%	0.102%
144	10.337	10.307	10.377	VV	2333	52996	0.67%	0.148%
145	10.394	10.377	10.417	VV	786	14154	0.18%	0.039%
146	10.439	10.417	10.457	VV	956	16247	0.21%	0.045%
147	10.495	10.457	10.528	VV	2589	52763	0.67%	0.147%
148	10.553	10.528	10.575	VV	2388	44921	0.57%	0.125%
149	10.604	10.575	10.616	VV	2498	41414	0.53%	0.115%
150	10.631	10.616	10.657	VV	3078	50059	0.64%	0.139%
151	10.676	10.657	10.709	VV	3372	60213	0.77%	0.168%
152	10.725	10.709	10.735	VV	1624	21299	0.27%	0.059%
153	10.749	10.735	10.762	VV	2334	31990	0.41%	0.089%
154	10.769	10.762	10.795	VV	2144	35907	0.46%	0.100%
155	10.812	10.795	10.839	VV	2037	45018	0.57%	0.125%
156	10.852	10.839	10.868	VV	1927	28104	0.36%	0.078%
157	10.885	10.868	10.904	VV	1711	32738	0.42%	0.091%
158	10.919	10.904	10.938	VV	1992	31385	0.40%	0.087%
159	10.974	10.938	11.007	VV	2690	70607	0.90%	0.197%
160	11.032	11.007	11.074	VV	2017	47396	0.60%	0.132%
161	11.094	11.074	11.105	VV	939	14851	0.19%	0.041%
162	11.116	11.105	11.135	VV	1183	17344	0.22%	0.048%
163	11.155	11.135	11.175	VV	2422	36214	0.46%	0.101%
164	11.189	11.175	11.207	VV	920	15318	0.19%	0.043%
165	11.233	11.207	11.272	VV	1339	33669	0.43%	0.094%
166	11.278	11.272	11.284	VV	702	4463	0.06%	0.012%
167	11.305	11.284	11.321	VV	1378	24057	0.31%	0.067%
168	11.332	11.321	11.351	VV	1111	16714	0.21%	0.047%
169	11.369	11.351	11.390	VV	794	14741	0.19%	0.041%
170	11.405	11.390	11.409	VV	577	5560	0.07%	0.015%
171	11.432	11.409	11.442	VV	706	12373	0.16%	0.034%
172	11.463	11.442	11.487	VV	1507	24796	0.32%	0.069%
173	11.539	11.487	11.561	VV	2028	55058	0.70%	0.153%
174	11.579	11.561	11.589	VV	1274	18440	0.23%	0.051%
175	11.605	11.589	11.626	VV	2259	34693	0.44%	0.097%
176	11.640	11.626	11.664	VV	1132	23256	0.30%	0.065%
177	11.680	11.664	11.723	VV	1674	39724	0.51%	0.111%
178	11.752	11.723	11.776	VV	998	19809	0.25%	0.055%
179	11.806	11.776	11.832	VV	1208	25896	0.33%	0.072%
180	11.845	11.832	11.864	VV	693	10544	0.13%	0.029%
181	11.866	11.864	11.873	VV	356	2020	0.03%	0.006%
182	11.926	11.873	11.973	VV	349158	3834257	48.77%	10.677%
183	11.989	11.973	12.032	VV	2613	44617	0.57%	0.124%
184	12.056	12.032	12.075	VV	1084	21543	0.27%	0.060%
185	12.106	12.075	12.124	VV	1498	30804	0.39%	0.086%
186	12.139	12.124	12.185	VV	1378	31290	0.40%	0.087%
187	12.211	12.185	12.223	VV	812	13645	0.17%	0.038%
188	12.259	12.223	12.286	VV	1791	45464	0.58%	0.127%
189	12.297	12.286	12.304	VV	1046	10495	0.13%	0.029%
190	12.326	12.304	12.352	VV	7588	95472	1.21%	0.266%
191	12.366	12.352	12.385	VV	966	14861	0.19%	0.041%
192	12.400	12.385	12.419	VV	813	13920	0.18%	0.039%
193	12.429	12.419	12.446	VV	897	12594	0.16%	0.035%
194	12.517	12.446	12.554	VV	11725	182845	2.33%	0.509%

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195	12.559	12.554	12.593	VV	1194	23290	0.30%	0.065%
196	12.604	12.593	12.622	VV	953	13750	0.17%	0.038%
197	12.640	12.622	12.667	VV	920	22019	0.28%	0.061%
198	12.701	12.667	12.728	VV	1199	30814	0.39%	0.086%
199	12.773	12.728	12.818	VV	4308	90957	1.16%	0.253%
200	12.856	12.818	12.880	VV	2949	49680	0.63%	0.138%
201	12.915	12.880	12.952	VV	2619	51817	0.66%	0.144%
202	12.977	12.952	13.019	VV	3145	54430	0.69%	0.152%
203	13.033	13.019	13.061	VV	392	6894	0.09%	0.019%
204	13.068	13.061	13.077	VV	259	2000	0.03%	0.006%
205	13.100	13.077	13.121	VV	376	6886	0.09%	0.019%
206	13.141	13.121	13.157	VV	367	6144	0.08%	0.017%
207	13.190	13.157	13.222	VV	804	18901	0.24%	0.053%
208	13.225	13.222	13.248	VV	346	4007	0.05%	0.011%
209	13.271	13.248	13.296	VV	1599	22730	0.29%	0.063%
210	13.314	13.296	13.321	VV	644	8240	0.10%	0.023%
211	13.360	13.321	13.389	VV	80926	989629	12.59%	2.756%
212	13.404	13.389	13.435	VV	1466	26903	0.34%	0.075%
213	13.443	13.435	13.499	VV	636	18423	0.23%	0.051%
214	13.579	13.499	13.635	VV	3729	92569	1.18%	0.258%
215	13.642	13.635	13.651	VV	545	4130	0.05%	0.012%
216	13.667	13.651	13.680	VV	678	9896	0.13%	0.028%
217	13.705	13.680	13.715	VV	854	13661	0.17%	0.038%
218	13.718	13.715	13.737	VV	632	8046	0.10%	0.022%
219	13.753	13.737	13.843	VV	2152	56017	0.71%	0.156%
220	13.861	13.843	13.887	VV	693	11610	0.15%	0.032%
221	13.929	13.887	13.955	VV	598	16704	0.21%	0.047%
222	13.973	13.955	13.992	VV	614	11029	0.14%	0.031%
223	14.007	13.992	14.031	VV	529	10585	0.13%	0.029%
224	14.062	14.031	14.089	VV	2078	33507	0.43%	0.093%
225	14.114	14.089	14.156	VV	1947	37179	0.47%	0.104%
226	14.175	14.156	14.194	VV	540	7837	0.10%	0.022%
227	14.201	14.194	14.205	VV	211	1326	0.02%	0.004%
228	14.213	14.205	14.240	VV	276	4222	0.05%	0.012%
229	14.244	14.240	14.267	VV	150	1846	0.02%	0.005%
230	14.338	14.295	14.370	PV	336	8566	0.11%	0.024%
231	14.375	14.370	14.398	VV	197	2889	0.04%	0.008%
232	14.415	14.407	14.429	VV	210	2188	0.03%	0.006%
233	14.447	14.429	14.461	VV	216	3384	0.04%	0.009%
234	14.482	14.461	14.494	VV	356	5115	0.07%	0.014%
235	14.508	14.494	14.521	VV	485	5864	0.07%	0.016%
236	14.548	14.521	14.577	VV	1310	23769	0.30%	0.066%
237	14.580	14.577	14.585	VV	411	1929	0.02%	0.005%
238	14.591	14.585	14.594	VV	403	1926	0.02%	0.005%
239	14.600	14.594	14.609	VV	371	3201	0.04%	0.009%
240	14.628	14.609	14.652	VV	404	7704	0.10%	0.021%
241	14.676	14.652	14.712	VV	1362	23858	0.30%	0.066%
242	14.734	14.712	14.753	VV	851	13445	0.17%	0.037%
243	14.773	14.753	14.782	VV	445	5761	0.07%	0.016%
244	14.784	14.782	14.795	VV	384	2804	0.04%	0.008%
245	14.835	14.795	14.866	VV	650	17856	0.23%	0.050%
246	14.914	14.866	14.959	VV	5432	85037	1.08%	0.237%

rteres

247	14.992	14.959	15.043	VV	6372	92162	1.17%	0.257%
248	15.059	15.043	15.092	VV	499	9163	0.12%	0.026%
249	15.106	15.100	15.114	VV	199	1336	0.02%	0.004%
250	15.178	15.119	15.182	VV	1362	24346	0.31%	0.068%
251	15.186	15.182	15.198	VV	1366	12371	0.16%	0.034%
252	15.217	15.198	15.242	VV	2695	39755	0.51%	0.111%
253	15.262	15.242	15.284	VV	1294	17729	0.23%	0.049%
254	15.317	15.284	15.365	VV	2014	37871	0.48%	0.105%
255	15.384	15.365	15.404	VV	620	10133	0.13%	0.028%
256	15.408	15.404	15.431	VV	208	2506	0.03%	0.007%
257	15.459	15.447	15.484	VV	222	2344	0.03%	0.007%
258	15.513	15.484	15.548	PV	377	6307	0.08%	0.018%
259	15.598	15.548	15.684	PV	4160	89403	1.14%	0.249%
260	15.689	15.684	15.712	VV	308	4562	0.06%	0.013%
261	15.755	15.712	15.785	VV	4682	83124	1.06%	0.231%
262	15.790	15.785	15.817	VV	176	2702	0.03%	0.008%
263	15.825	15.817	15.844	VV	301	2586	0.03%	0.007%
264	15.864	15.844	15.872	VV	245	2847	0.04%	0.008%
265	15.881	15.872	15.898	VV	207	2032	0.03%	0.006%
266	15.906	15.898	15.922	VV	158	1579	0.02%	0.004%
267	15.953	15.922	15.980	VV	452	8352	0.11%	0.023%
268	15.996	15.980	16.015	VV	190	3044	0.04%	0.008%
269	16.060	16.015	16.080	VV	310	6463	0.08%	0.018%
270	16.115	16.080	16.138	VV	308	8019	0.10%	0.022%
271	16.168	16.138	16.176	VV	230	3847	0.05%	0.011%
272	16.199	16.176	16.217	VV	639	10046	0.13%	0.028%
273	16.239	16.217	16.272	VV	2722	38123	0.48%	0.106%
274	16.293	16.272	16.325	VV	354	6479	0.08%	0.018%
275	16.371	16.349	16.384	VV	168	2146	0.03%	0.006%
276	16.428	16.384	16.441	VV	253	5603	0.07%	0.016%
277	16.464	16.441	16.506	PV	193	3083	0.04%	0.009%
278	16.537	16.514	16.562	VV	184	2872	0.04%	0.008%
279	16.622	16.579	16.662	VV	580	11725	0.15%	0.033%
280	16.721	16.662	16.756	VV	2472	47252	0.60%	0.132%
281	16.762	16.756	16.768	VV	207	1326	0.02%	0.004%
282	16.804	16.768	16.832	VV	5612	74489	0.95%	0.207%
283	16.854	16.832	16.868	VV	397	5775	0.07%	0.016%
284	16.884	16.868	16.901	VV	261	3793	0.05%	0.011%
285	16.913	16.901	16.934	VV	237	3461	0.04%	0.010%
286	16.955	16.934	16.985	VV	275	5250	0.07%	0.015%
287	17.028	16.985	17.047	VV	341	7367	0.09%	0.021%
288	17.085	17.047	17.127	VV	864	16098	0.20%	0.045%
289	17.156	17.127	17.165	VV	945	13342	0.17%	0.037%
290	17.188	17.165	17.215	VV	3893	58370	0.74%	0.163%
291	17.238	17.215	17.285	VV	3981	59072	0.75%	0.164%
292	17.290	17.285	17.296	VV	212	1157	0.01%	0.003%
293	17.303	17.296	17.325	VV	209	2724	0.03%	0.008%
294	17.330	17.325	17.346	VV	143	1190	0.02%	0.003%
295	17.383	17.356	17.404	PV	318	4679	0.06%	0.013%
296	17.432	17.422	17.439	VV	242	1642	0.02%	0.005%
297	17.453	17.447	17.462	VV	207	1250	0.02%	0.003%
298	17.526	17.462	17.557	VV	1193	23970	0.30%	0.067%
299	17.580	17.557	17.591	VV	448	7000	0.09%	0.019%

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300	17.640	17.591	17.694	VV	6734	110463	1.41%	0.308%
301	17.723	17.694	17.736	VV	407	6988	0.09%	0.019%
302	17.738	17.736	17.772	VV	412	4496	0.06%	0.013%
303	17.811	17.799	17.834	VV	218	2351	0.03%	0.007%
304	17.864	17.834	17.902	PV	6524	91459	1.16%	0.255%
305	17.935	17.902	17.967	VV	7652	104460	1.33%	0.291%
306	17.970	17.967	17.981	VV	184	1094	0.01%	0.003%
307	18.076	17.989	18.135	VV	16154	259424	3.30%	0.722%
308	18.166	18.135	18.199	VV	2839	46068	0.59%	0.128%
309	18.232	18.199	18.238	VV	340	6358	0.08%	0.018%
310	18.258	18.238	18.284	VV	337	5849	0.07%	0.016%
311	18.309	18.290	18.322	VV	160	1987	0.03%	0.006%
312	18.351	18.322	18.376	PV	751	11686	0.15%	0.033%
313	18.398	18.376	18.413	PV	650	8638	0.11%	0.024%
314	18.447	18.413	18.468	VV	2491	54211	0.69%	0.151%
315	18.499	18.468	18.546	VV	26364	405767	5.16%	1.130%
316	18.558	18.546	18.574	VV	610	8724	0.11%	0.024%
317	18.595	18.574	18.669	VV	950	22106	0.28%	0.062%
318	18.707	18.669	18.731	PV	784	10451	0.13%	0.029%
319	18.763	18.731	18.785	VV	1270	18234	0.23%	0.051%

Sum of corrected areas: 35912290

Aromatic EPH 111524.M Fri Nov 15 14:00:35 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-13			SDG No.:	P4839
Lab Sample ID:	P4839-05			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	86.4
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 10:51	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	107		10	4.40	11.6	mg/kg	FE051303.D
Aliphatic C12-C16	Aliphatic C12-C16	135		10	2.78	7.71	mg/kg	FE051303.D
Aliphatic C16-C21	Aliphatic C16-C21	8.16		1	0.35	1.16	mg/kg	FE051266.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	1	0.93	1.54	mg/kg	FE051266.D
Aliphatic C28-C40	Aliphatic C28-C40	3.24		1	2.08	2.31	mg/kg	FE051266.D
Aromatic C10-C12	Aromatic C10-C12	39.8		5	1.74	3.86	mg/kg	FF015070.D
Aromatic C12-C16	Aromatic C12-C16	51.1		5	1.97	5.79	mg/kg	FF015070.D
Aromatic C16-C21	Aromatic C16-C21	15.6		1	1.11	1.93	mg/kg	FF015058.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.09	mg/kg	FF015058.D
Total AliphaticEPH	Total AliphaticEPH	253			10.5	24.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	107			7.13	14.7	mg/kg	
Total EPH	Total EPH	360			17.7	39.0	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-13			SDG No.:	P4839
Lab Sample ID:	P4839-05			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	86.4
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 10:51	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	107		10	4.40	11.6	mg/kg	FE051303.D
Aliphatic C12-C16	Aliphatic C12-C16	135		10	2.78	7.71	mg/kg	FE051303.D
Aliphatic C16-C21	Aliphatic C16-C21	8.16		1	0.35	1.16	mg/kg	FE051266.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	1	0.93	1.54	mg/kg	FE051266.D
Aliphatic C28-C40	Aliphatic C28-C40	3.24		1	2.08	2.31	mg/kg	FE051266.D
Aromatic C10-C12	Aromatic C10-C12	39.8		5	1.74	3.86	mg/kg	FF015070.D
Aromatic C12-C16	Aromatic C12-C16	51.1		5	1.97	5.79	mg/kg	FF015070.D
Aromatic C16-C21	Aromatic C16-C21	15.6		1	1.11	1.93	mg/kg	FF015058.D
Aromatic C21-C36	Aromatic C21-C36	2.31	U	1	2.31	3.09	mg/kg	FF015058.D
Total AliphaticEPH	Total AliphaticEPH	253			10.5	24.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	107			7.13	14.7	mg/kg	
Total EPH	Total EPH	360			17.7	39.0	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-13		SDG No.:	P4839	
Lab Sample ID:	P4839-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051266.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	103	E	0.44	1.16	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	127	E	0.28	0.77	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.16		0.35	1.16	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	0.93	1.54	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.24		2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.7		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-05	Acq On:	15 Nov 2024 16:48
Client Sample ID:	EX-9-TPH-13	Operator:	YP\AJ
Data file:	FE051266.D	Misc:	
Instrument:	FID_E	ALS Vial:	10
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	187751458	1340	300	ug/ml
Aliphatic C12-C16	6.754	10.185	232654375	1650	200	ug/ml
Aliphatic C16-C21	10.186	13.544	14582521	105.848	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1044129	7.795	400	ug/ml
Aliphatic C28-C40	17.201	22.043	5412736	42.041	600	ug/ml
Aliphatic EPH	3.134	22.043	441445219	3150		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	3943304	34.73		ug/ml
Aliphatic C9-C28	3.134	17.200	436032483	3110	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051266.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 16:48
Operator : YP\AJ
Sample : P4839-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-13

Integration File: autoint1.e
Quant Time: Nov 16 08:19:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	3943304	34.733 ug/ml
Spiked Amount 50.000		Recovery = 69.47%	
Target Compounds			

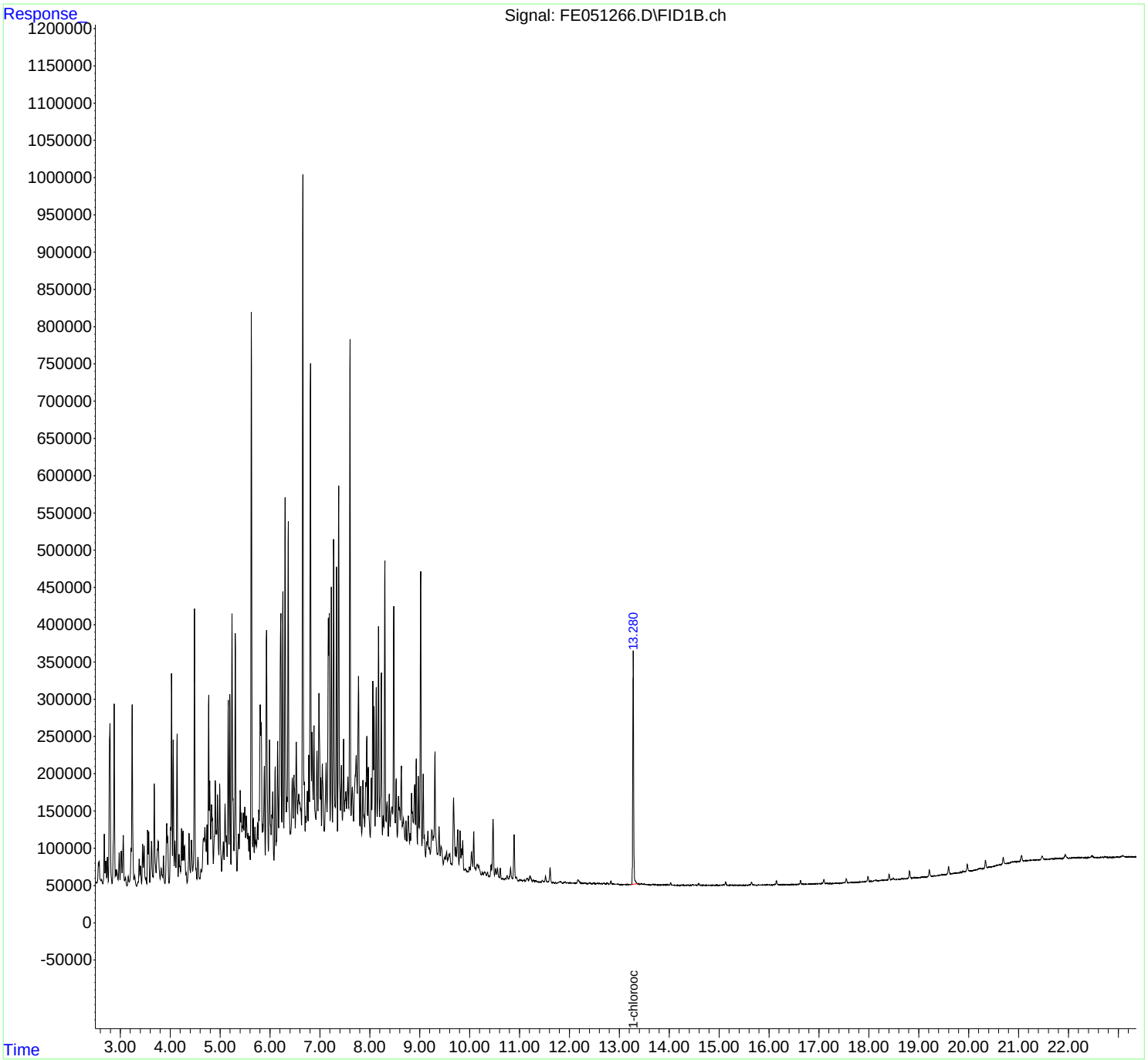
(f)=RT Delta > 1/2 Window (m)=manual int.

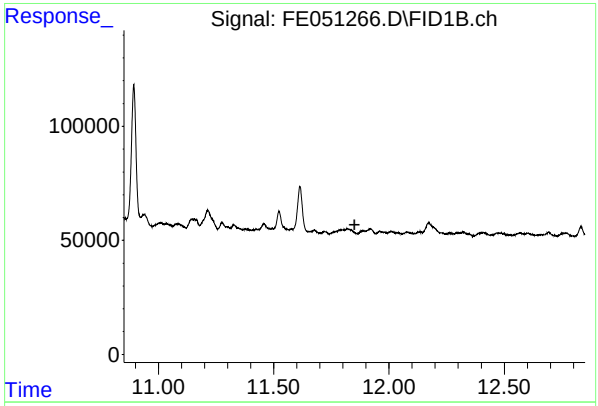
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051266.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 16:48
Operator : YP\AJ
Sample : P4839-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-13

Integration File: autoint1.e
Quant Time: Nov 16 08:19:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

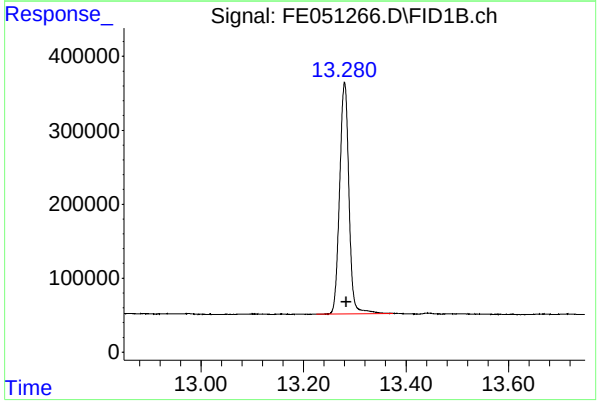




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-13



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 3943304
Conc: 34.73 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051266.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 16:48
Sample : P4839-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.237	3.215	3.272	BV	208262	2131854	21.40%	0.724%
2	3.288	3.272	3.327	PV	7517	87917	0.88%	0.030%
3	3.378	3.327	3.394	PV	36240	491199	4.93%	0.167%
4	3.405	3.394	3.426	VV	26702	309421	3.11%	0.105%
5	3.447	3.426	3.461	VV	55650	637561	6.40%	0.217%
6	3.477	3.461	3.508	VV	53336	750628	7.54%	0.255%
7	3.515	3.508	3.527	VV	10361	89930	0.90%	0.031%
8	3.548	3.527	3.559	VV	73439	764883	7.68%	0.260%
9	3.570	3.559	3.591	VV	71340	777819	7.81%	0.264%
10	3.626	3.591	3.661	VV	58498	1038248	10.42%	0.353%
11	3.681	3.661	3.716	VV	134728	1783151	17.90%	0.606%
12	3.761	3.716	3.797	VV	58018	1618950	16.25%	0.550%
13	3.819	3.797	3.851	VV	20960	440388	4.42%	0.150%
14	3.866	3.851	3.894	VV	37557	396072	3.98%	0.135%
15	3.929	3.894	3.977	PV	80023	1744000	17.51%	0.592%
16	4.027	4.001	4.045	BV	233813	2219505	22.28%	0.754%
17	4.061	4.045	4.080	PV	160345	1458953	14.65%	0.496%
18	4.095	4.080	4.114	PV	35740	350994	3.52%	0.119%
19	4.137	4.114	4.159	VV	187008	1889903	18.97%	0.642%
20	4.177	4.159	4.208	PV	30424	467262	4.69%	0.159%
21	4.228	4.208	4.242	VV	67501	778637	7.82%	0.264%
22	4.257	4.242	4.272	VV	65637	790030	7.93%	0.268%
23	4.286	4.272	4.339	VV	46962	908269	9.12%	0.309%
24	4.378	4.339	4.408	PV	65862	1021915	10.26%	0.347%
25	4.426	4.408	4.451	VV	56229	883800	8.87%	0.300%
26	4.487	4.451	4.535	VV	364014	4261228	42.78%	1.447%
27	4.556	4.535	4.598	VV	31237	452067	4.54%	0.154%
28	4.669	4.598	4.681	VV	53620	1301944	13.07%	0.442%
29	4.695	4.681	4.722	VV	68732	1301524	13.07%	0.442%
30	4.737	4.722	4.751	VV	72029	864445	8.68%	0.294%
31	4.770	4.751	4.812	VV	244043	4125891	41.42%	1.401%
32	4.830	4.812	4.865	VV	97455	2144061	21.53%	0.728%
33	4.904	4.865	4.935	VV	128381	2704599	27.15%	0.919%
34	4.948	4.935	4.974	VV	108636	1565279	15.72%	0.532%
35	4.993	4.974	5.031	VV	121268	1812203	18.19%	0.616%
36	5.065	5.031	5.081	VV	44012	783851	7.87%	0.266%

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37	5.099	5.081	5.140	VV	93859	1848363	18.56%	0.628%
38	5.162	5.140	5.179	VV	230810	2568037	25.78%	0.872%
39	5.196	5.179	5.216	VV	238231	2517009	25.27%	0.855%
40	5.239	5.216	5.277	VV	345837	4718669	47.38%	1.603%
41	5.305	5.277	5.339	VV	318173	3916880	39.33%	1.330%
42	5.369	5.339	5.382	PV	49162	770516	7.74%	0.262%
43	5.404	5.382	5.450	VV	106187	2683807	26.95%	0.912%
44	5.464	5.450	5.476	VV	75913	1017451	10.22%	0.346%
45	5.495	5.476	5.512	VV	82866	1398231	14.04%	0.475%
46	5.526	5.512	5.550	VV	70647	1254156	12.59%	0.426%
47	5.561	5.550	5.575	VV	46630	565432	5.68%	0.192%
48	5.587	5.575	5.605	VV	42279	499464	5.01%	0.170%
49	5.627	5.605	5.653	VV	740436	8359551	83.93%	2.840%
50	5.666	5.653	5.684	VV	64524	752012	7.55%	0.255%
51	5.699	5.684	5.730	VV	51919	929693	9.33%	0.316%
52	5.750	5.730	5.761	VV	56433	767519	7.71%	0.261%
53	5.775	5.761	5.783	VV	73210	754797	7.58%	0.256%
54	5.804	5.783	5.816	VV	211919	2970324	29.82%	1.009%
55	5.824	5.816	5.860	VV	190437	2731954	27.43%	0.928%
56	5.886	5.860	5.905	VV	130553	1904511	19.12%	0.647%
57	5.929	5.905	5.968	VV	309241	4860042	48.80%	1.651%
58	5.991	5.968	6.022	VV	162952	2467177	24.77%	0.838%
59	6.054	6.022	6.079	VV	91919	1688336	16.95%	0.573%
60	6.103	6.079	6.122	PV	123216	1311912	13.17%	0.446%
61	6.154	6.122	6.173	VV	153468	2149396	21.58%	0.730%
62	6.216	6.173	6.237	VV	315839	5931365	59.55%	2.015%
63	6.257	6.237	6.277	VV	346627	3765155	37.80%	1.279%
64	6.302	6.277	6.328	VV	467994	5859298	58.83%	1.990%
65	6.366	6.328	6.413	VV	431277	5858592	58.82%	1.990%
66	6.447	6.413	6.465	VV	84022	1403731	14.09%	0.477%
67	6.480	6.465	6.507	VV	83817	1429623	14.35%	0.486%
68	6.527	6.507	6.552	VV	126104	1865014	18.72%	0.633%
69	6.576	6.552	6.631	VV	52571	1773112	17.80%	0.602%
70	6.658	6.631	6.701	VBA	879628	9960030	100.00%	3.383%
71	6.716	6.701	6.724	BV	15485	101626	1.02%	0.035%
72	6.749	6.724	6.763	VV	48594	664808	6.67%	0.226%
73	6.779	6.763	6.790	VV	98765	948740	9.53%	0.322%
74	6.811	6.790	6.832	VV	624699	7217073	72.46%	2.451%
75	6.845	6.832	6.865	VV	130836	1698744	17.06%	0.577%
76	6.882	6.865	6.920	VV	139866	1796440	18.04%	0.610%
77	6.942	6.920	6.961	VV	106820	1431889	14.38%	0.486%
78	6.982	6.961	7.009	VV	184789	2995163	30.07%	1.017%
79	7.018	7.009	7.032	VV	72800	659845	6.62%	0.224%
80	7.049	7.032	7.091	VV	92174	1484267	14.90%	0.504%
81	7.125	7.091	7.143	VV	94555	1468616	14.75%	0.499%
82	7.186	7.143	7.207	VV	290525	6276523	63.02%	2.132%
83	7.230	7.207	7.253	VV	332687	3802405	38.18%	1.292%
84	7.276	7.253	7.310	VV	398206	5085753	51.06%	1.727%
85	7.334	7.310	7.353	VV	361815	3911799	39.27%	1.329%
86	7.377	7.353	7.412	VV	472432	5818969	58.42%	1.977%
87	7.431	7.412	7.452	VV	96934	1431831	14.38%	0.486%
88	7.475	7.452	7.493	VV	132666	1720820	17.28%	0.585%
89	7.520	7.493	7.535	VV	63031	1286150	12.91%	0.437%

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90	7.561	7.535	7.577	VV	83758	1541885	15.48%	0.524%
91	7.603	7.577	7.626	VV	672277	7383005	74.13%	2.508%
92	7.649	7.626	7.675	VV	71396	1478083	14.84%	0.502%
93	7.727	7.675	7.749	VV	115539	3464993	34.79%	1.177%
94	7.774	7.749	7.801	VV	222983	3744886	37.60%	1.272%
95	7.817	7.801	7.839	VV	75909	955514	9.59%	0.325%
96	7.863	7.839	7.897	VV	84234	1532804	15.39%	0.521%
97	7.940	7.897	7.956	VV	146174	2773449	27.85%	0.942%
98	7.970	7.956	8.011	VV	104050	1633091	16.40%	0.555%
99	8.031	8.011	8.042	VV	90443	1051285	10.56%	0.357%
100	8.062	8.042	8.075	VV	221110	2756212	27.67%	0.936%
101	8.086	8.075	8.106	VV	187002	2082429	20.91%	0.707%
102	8.129	8.106	8.150	VV	212385	2723144	27.34%	0.925%
103	8.175	8.150	8.198	VV	296143	3954188	39.70%	1.343%
104	8.231	8.198	8.254	VV	235194	3370851	33.84%	1.145%
105	8.269	8.254	8.281	VV	44562	557846	5.60%	0.189%
106	8.302	8.281	8.326	VV	386786	4439261	44.57%	1.508%
107	8.347	8.326	8.371	VV	64836	1269805	12.75%	0.431%
108	8.390	8.371	8.409	VV	75751	1078676	10.83%	0.366%
109	8.443	8.409	8.457	VV	59322	1478893	14.85%	0.502%
110	8.481	8.457	8.510	VV	328584	4208608	42.25%	1.430%
111	8.529	8.510	8.552	VV	98342	1451583	14.57%	0.493%
112	8.576	8.552	8.589	VV	76419	1178058	11.83%	0.400%
113	8.595	8.589	8.610	VV	62114	705051	7.08%	0.239%
114	8.632	8.610	8.655	VV	116889	1964877	19.73%	0.667%
115	8.675	8.655	8.707	VV	48299	1154963	11.60%	0.392%
116	8.726	8.707	8.744	VV	46127	705771	7.09%	0.240%
117	8.773	8.744	8.797	VV	53572	1119899	11.24%	0.380%
118	8.838	8.797	8.878	VV	85025	2292397	23.02%	0.779%
119	8.900	8.878	8.916	VV	98642	1718871	17.26%	0.584%
120	8.931	8.916	8.954	VV	133019	1708794	17.16%	0.580%
121	8.973	8.954	8.990	VV	109932	1398407	14.04%	0.475%
122	9.020	8.990	9.047	VV	386594	5152210	51.73%	1.750%
123	9.071	9.047	9.119	VV	114701	1860239	18.68%	0.632%
124	9.141	9.119	9.150	VV	25384	338227	3.40%	0.115%
125	9.165	9.150	9.184	VV	40301	581946	5.84%	0.198%
126	9.193	9.184	9.212	VV	18668	262284	2.63%	0.089%
127	9.245	9.212	9.265	VV	42006	946446	9.50%	0.321%
128	9.306	9.265	9.353	VV	148379	2720927	27.32%	0.924%
129	9.389	9.353	9.412	VV	50070	875051	8.79%	0.297%
130	9.430	9.412	9.474	VV	24533	576706	5.79%	0.196%
131	9.507	9.474	9.521	VV	11822	232262	2.33%	0.079%
132	9.540	9.521	9.556	VV	19879	297349	2.99%	0.101%
133	9.566	9.556	9.573	VV	11587	104551	1.05%	0.036%
134	9.604	9.573	9.626	VV	17805	418229	4.20%	0.142%
135	9.634	9.626	9.648	VV	5600	62956	0.63%	0.021%
136	9.679	9.648	9.712	VV	93765	1682575	16.89%	0.572%
137	9.724	9.712	9.738	VV	29013	363216	3.65%	0.123%
138	9.764	9.738	9.787	VV	53311	923571	9.27%	0.314%
139	9.811	9.787	9.828	VV	52948	710991	7.14%	0.242%
140	9.841	9.828	9.850	VV	28534	298737	3.00%	0.101%
141	9.863	9.850	9.889	VV	41100	483956	4.86%	0.164%

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142	9.918	9.889	9.975	VV	3345	78236	0.79%	0.027%
143	9.997	9.975	10.013	PV	7358	102314	1.03%	0.035%
144	10.039	10.013	10.065	VV	28421	501411	5.03%	0.170%
145	10.084	10.065	10.127	VV	56175	782165	7.85%	0.266%
146	10.152	10.127	10.176	VV	12528	294525	2.96%	0.100%
147	10.187	10.176	10.233	VV	11673	203742	2.05%	0.069%
148	10.257	10.233	10.275	VV	3530	49490	0.50%	0.017%
149	10.296	10.275	10.338	VV	5266	117633	1.18%	0.040%
150	10.360	10.338	10.385	VV	5570	77433	0.78%	0.026%
151	10.430	10.385	10.443	VV	16246	207811	2.09%	0.071%
152	10.471	10.443	10.501	VV	78111	1197070	12.02%	0.407%
153	10.521	10.501	10.542	VV	12559	201496	2.02%	0.068%
154	10.561	10.542	10.593	VV	14036	227836	2.29%	0.077%
155	10.616	10.593	10.643	VV	14620	181232	1.82%	0.062%
156	10.658	10.643	10.690	PV	1316	18885	0.19%	0.006%
157	10.716	10.690	10.727	PV	2099	27919	0.28%	0.009%
158	10.752	10.727	10.781	VV	6059	106631	1.07%	0.036%
159	10.822	10.781	10.860	VV	16665	310677	3.12%	0.106%
160	10.893	10.860	10.924	VV	61521	889072	8.93%	0.302%
161	10.938	10.924	10.973	VV	5032	85711	0.86%	0.029%
162	11.010	10.973	11.026	PV	1635	32812	0.33%	0.011%
163	11.036	11.026	11.065	VV	1415	23143	0.23%	0.008%
164	11.083	11.065	11.120	VV	1552	31905	0.32%	0.011%
165	11.148	11.120	11.179	PV	3976	96443	0.97%	0.033%
166	11.214	11.179	11.258	VV	8162	190995	1.92%	0.065%
167	11.276	11.258	11.315	VV	3134	50014	0.50%	0.017%
168	11.327	11.315	11.365	VV	2251	33471	0.34%	0.011%
169	11.378	11.365	11.405	VV	519	8222	0.08%	0.003%
170	11.457	11.405	11.485	VV	3098	62820	0.63%	0.021%
171	11.523	11.485	11.564	VV	8911	150688	1.51%	0.051%
172	11.576	11.564	11.580	VV	1428	12332	0.12%	0.004%
173	11.614	11.580	11.655	VV	20287	310517	3.12%	0.105%
174	11.677	11.655	11.704	VV	1390	20812	0.21%	0.007%
175	11.721	11.704	11.741	VV	952	11444	0.11%	0.004%
176	11.820	11.741	11.861	PV	2266	96392	0.97%	0.033%
177	11.888	11.861	11.898	VV	1596	24754	0.25%	0.008%
178	11.919	11.898	11.943	VV	2486	44601	0.45%	0.015%
179	11.961	11.943	11.993	VV	1346	29399	0.30%	0.010%
180	12.010	11.993	12.058	VV	1460	37103	0.37%	0.013%
181	12.078	12.058	12.111	VV	1237	28692	0.29%	0.010%
182	12.132	12.111	12.143	VV	1476	21825	0.22%	0.007%
183	12.173	12.143	12.246	VV	5527	164606	1.65%	0.056%
184	12.262	12.246	12.283	VV	1074	21175	0.21%	0.007%
185	12.299	12.283	12.307	VV	1290	16125	0.16%	0.005%
186	12.321	12.307	12.367	VV	1635	34496	0.35%	0.012%
187	12.409	12.367	12.438	PV	1571	41623	0.42%	0.014%
188	12.469	12.438	12.536	VV	1481	55725	0.56%	0.019%
189	12.569	12.536	12.588	VV	1538	36316	0.36%	0.012%
190	12.602	12.588	12.636	VV	1564	31097	0.31%	0.011%
191	12.692	12.636	12.731	VV	2219	59134	0.59%	0.020%
192	12.767	12.731	12.805	VV	1812	51066	0.51%	0.017%
193	12.832	12.805	12.878	VV	4692	80169	0.80%	0.027%
194	12.889	12.878	12.915	VV	895	14328	0.14%	0.005%

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195	12.934	12.915	12.961	VV	827	18267	0.18%	0.006%
196	12.975	12.961	13.041	VV	1026	15269	0.15%	0.005%
197	13.105	13.041	13.138	PV	630	19461	0.20%	0.007%
198	13.155	13.138	13.175	VV	579	6883	0.07%	0.002%
199	13.191	13.175	13.215	VV	546	8678	0.09%	0.003%
200	13.280	13.215	13.423	VV	314997	4072906	40.89%	1.383%
201	13.443	13.423	13.470	VV	2107	37452	0.38%	0.013%
202	13.483	13.470	13.497	VV	1107	16138	0.16%	0.005%
203	13.510	13.497	13.592	VV	1183	45479	0.46%	0.015%
204	13.607	13.592	13.631	VV	538	9266	0.09%	0.003%
205	13.667	13.631	13.690	VV	1071	23432	0.24%	0.008%
206	13.715	13.690	13.791	VV	1049	33822	0.34%	0.011%
207	13.797	13.791	13.848	VV	428	12212	0.12%	0.004%
208	13.876	13.848	13.909	VV	729	18627	0.19%	0.006%
209	13.939	13.909	13.957	VV	708	14582	0.15%	0.005%
210	13.977	13.957	14.003	VV	1054	16387	0.16%	0.006%
211	14.028	14.003	14.078	VV	3469	51010	0.51%	0.017%
212	14.085	14.078	14.105	VV	445	5200	0.05%	0.002%
213	14.116	14.105	14.133	VV	326	3963	0.04%	0.001%
214	14.169	14.133	14.211	VV	269	7163	0.07%	0.002%
215	14.262	14.211	14.302	PV	596	17764	0.18%	0.006%
216	14.309	14.302	14.314	VV	282	1960	0.02%	0.001%
217	14.322	14.314	14.373	VV	353	7888	0.08%	0.003%
218	14.469	14.373	14.500	VV	1425	36079	0.36%	0.012%
219	14.535	14.500	14.563	VV	588	15753	0.16%	0.005%
220	14.590	14.563	14.630	VV	2587	37191	0.37%	0.013%
221	14.656	14.630	14.673	VV	405	7253	0.07%	0.002%
222	14.717	14.673	14.777	VV	449	15642	0.16%	0.005%
223	14.792	14.777	14.805	VV	192	2027	0.02%	0.001%
224	14.837	14.805	14.860	VV	341	6466	0.06%	0.002%
225	14.890	14.860	14.918	VV	380	9482	0.10%	0.003%
226	14.940	14.918	14.961	VV	284	4699	0.05%	0.002%
227	14.976	14.961	15.036	VV	258	6292	0.06%	0.002%
228	15.086	15.036	15.101	VV	1032	14778	0.15%	0.005%
229	15.130	15.101	15.232	VV	4610	77974	0.78%	0.026%
230	15.258	15.232	15.274	PV	183	2343	0.02%	0.001%
231	15.293	15.274	15.343	VV	202	6184	0.06%	0.002%
232	15.368	15.343	15.411	VV	208	4054	0.04%	0.001%
233	15.437	15.411	15.453	PV	131	2156	0.02%	0.001%
234	15.471	15.453	15.492	VV	168	1857	0.02%	0.001%
235	15.556	15.492	15.578	VV	238	6802	0.07%	0.002%
236	15.605	15.578	15.621	VV	408	6318	0.06%	0.002%
237	15.648	15.621	15.761	VV	4141	67968	0.68%	0.023%
238	15.783	15.761	15.817	VV	231	3462	0.03%	0.001%
239	15.829	15.817	15.850	VV	170	1775	0.02%	0.001%
240	15.869	15.850	15.888	VV	203	2726	0.03%	0.001%
241	15.901	15.888	15.911	VV	123	1096	0.01%	0.000%
242	15.967	15.911	16.071	PV	542	18293	0.18%	0.006%
243	16.112	16.071	16.123	VV	799	13308	0.13%	0.005%
244	16.149	16.123	16.212	VV	5809	86968	0.87%	0.030%
245	16.221	16.212	16.258	VV	184	2676	0.03%	0.001%
246	16.290	16.258	16.304	VV	202	3256	0.03%	0.001%

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247	16.348	16.304	16.384	VV	329	8203	0.08%	0.003%
248	16.395	16.384	16.415	VV	78	924	0.01%	0.000%
249	16.459	16.415	16.481	PV	383	8131	0.08%	0.003%
250	16.507	16.481	16.552	VV	318	7524	0.08%	0.003%
251	16.631	16.552	16.701	PV	5160	86468	0.87%	0.029%
252	16.795	16.701	16.828	VV	412	15160	0.15%	0.005%
253	16.831	16.828	16.884	VV	308	6188	0.06%	0.002%
254	16.935	16.884	16.955	VV	285	6190	0.06%	0.002%
255	16.972	16.955	17.005	VV	351	5823	0.06%	0.002%
256	17.097	17.005	17.166	VV	5945	105828	1.06%	0.036%
257	17.197	17.166	17.223	VV	268	5248	0.05%	0.002%
258	17.336	17.223	17.365	VV	552	10356	0.10%	0.004%
259	17.388	17.365	17.418	PV	218	3828	0.04%	0.001%
260	17.430	17.418	17.443	VV	199	1847	0.02%	0.001%
261	17.510	17.443	17.520	VV	643	13463	0.14%	0.005%
262	17.548	17.520	17.601	VV	5468	87717	0.88%	0.030%
263	17.650	17.601	17.684	VV	613	16529	0.17%	0.006%
264	17.702	17.684	17.710	VV	142	1869	0.02%	0.001%
265	17.748	17.710	17.775	VV	241	4917	0.05%	0.002%
266	17.830	17.775	17.848	PV	320	4297	0.04%	0.001%
267	17.881	17.848	17.898	VV	223	3087	0.03%	0.001%
268	17.982	17.898	18.018	PV	6959	112050	1.12%	0.038%
269	18.029	18.018	18.038	VV	253	2371	0.02%	0.001%
270	18.049	18.038	18.062	VV	203	2278	0.02%	0.001%
271	18.123	18.062	18.138	VV	1245	22127	0.22%	0.008%
272	18.150	18.138	18.188	VV	817	15150	0.15%	0.005%
273	18.264	18.188	18.285	VV	380	10709	0.11%	0.004%
274	18.326	18.285	18.345	VV	350	9366	0.09%	0.003%
275	18.406	18.345	18.448	VV	8095	119453	1.20%	0.041%
276	18.490	18.448	18.546	VV	1793	33963	0.34%	0.012%
277	18.671	18.546	18.697	VV	443	4896	0.05%	0.002%
278	18.715	18.697	18.737	VV	238	3001	0.03%	0.001%
279	18.815	18.737	18.879	PV	9737	161182	1.62%	0.055%
280	18.913	18.879	18.936	PV	603	10627	0.11%	0.004%
281	18.962	18.936	18.977	VV	373	5056	0.05%	0.002%
282	19.073	18.977	19.098	PV	506	7870	0.08%	0.003%
283	19.118	19.098	19.147	VV	391	6182	0.06%	0.002%
284	19.212	19.147	19.278	PV	9123	142923	1.43%	0.049%
285	19.323	19.278	19.331	PV	345	5958	0.06%	0.002%
286	19.345	19.331	19.358	VV	229	3343	0.03%	0.001%
287	19.461	19.358	19.484	VV	696	23484	0.24%	0.008%
288	19.507	19.484	19.529	VV	444	6113	0.06%	0.002%
289	19.598	19.529	19.655	VV	10345	167221	1.68%	0.057%
290	19.721	19.655	19.741	VV	517	13306	0.13%	0.005%
291	19.745	19.741	19.762	VV	297	2139	0.02%	0.001%
292	19.838	19.762	19.853	VV	696	15823	0.16%	0.005%
293	19.888	19.853	19.923	VV	1159	30905	0.31%	0.010%
294	19.973	19.923	20.012	VV	9818	175128	1.76%	0.059%
295	20.022	20.012	20.053	VV	988	19703	0.20%	0.007%
296	20.209	20.053	20.227	VV	2430	129987	1.31%	0.044%
297	20.246	20.227	20.271	VV	2325	52905	0.53%	0.018%
298	20.337	20.271	20.371	VV	12171	255335	2.56%	0.087%
299	20.402	20.371	20.412	VV	2661	61252	0.61%	0.021%

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300	20.419	20.412	20.428	VV	2374	21665	0.22%	0.007%
301	20.573	20.428	20.588	VV	3614	274246	2.75%	0.093%
302	20.612	20.588	20.624	VV	4001	81433	0.82%	0.028%
303	20.693	20.624	20.740	VV	13040	422483	4.24%	0.144%
304	20.871	20.740	20.892	VV	5350	431903	4.34%	0.147%
305	20.919	20.892	20.951	VV	5451	185380	1.86%	0.063%
306	20.978	20.951	21.001	VV	5053	149441	1.50%	0.051%
307	21.059	21.001	21.106	VV	12622	439495	4.41%	0.149%
308	21.152	21.106	21.165	VV	4904	171194	1.72%	0.058%
309	21.251	21.165	21.261	VV	4538	265784	2.67%	0.090%
310	21.315	21.261	21.346	VV	4294	215799	2.17%	0.073%
311	21.381	21.346	21.415	VV	3972	153608	1.54%	0.052%
312	21.473	21.415	21.548	VV	8314	365161	3.67%	0.124%
313	21.589	21.548	21.611	VV	3029	111929	1.12%	0.038%
314	21.773	21.611	21.782	VV	2353	266456	2.68%	0.091%
315	21.828	21.782	21.867	VV	1970	92234	0.93%	0.031%
316	21.939	21.867	22.008	VV	5403	202129	2.03%	0.069%
317	22.020	22.008	22.043	VV	786	13147	0.13%	0.004%
318	22.121	22.043	22.144	VV	236	16719	0.17%	0.006%

Sum of corrected areas: 294400840

Aliphatic EPH 110724.M Sat Nov 16 11:25:37 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-13		SDG No.:	P4839	
Lab Sample ID:	P4839-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015058.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	34.2	E	0.35	0.77	mg/kg
Aromatic C12-C16	Aromatic C12-C16	45.0	E	0.39	1.16	mg/kg
Aromatic C16-C21	Aromatic C16-C21	15.6		1.11	1.93	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.31	U	2.31	3.09	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.7		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	60.1		40 - 140	120%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.0		40 - 140	60%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-05	Acq On:	15 Nov 2024 13:46
Client Sample ID:	EX-9-TPH-13	Operator:	YP\AJ
Data file:	FF015058.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	4.507	6.371	60609780	443.1	200	ug/ml
Aromatic C12-C16	6.372	9.062	78740451	583.167	300	ug/ml
Aromatic C16-C21	9.063	13.374	25914392	202.625	500	ug/ml
Aromatic C21-C36	13.375	18.817	2866705	23.522	800	ug/ml
Aromatic EPH	4.507	18.817	168131328	1250		ug/ml
ortho-Terphenyl (SURR)	11.926	11.926	4027560	30.02		ug/ml
2-Bromonaphthalene (SURR)	7.993	7.993	7535547	61.71		ug/ml
2-Flurobiphenyl (SURR)	8.867	8.867	4904507	60.07		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015058.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:46
Operator : YP\AJ
Sample : P4839-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13

Integration File: autoint1.e
Quant Time: Nov 15 13:56:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.993	7535547	61.708 ug/ml
Spiked Amount 50.000		Recovery = 123.42%	
6) S 2-Flurobiphenyl (SURR)	8.867	4904507	60.074 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 120.15%	
11) S ortho-Terphenyl (SURR)	11.926	4027560	30.024 ug/ml
Spiked Amount 50.000		Recovery = 60.05%	
Target Compounds			

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

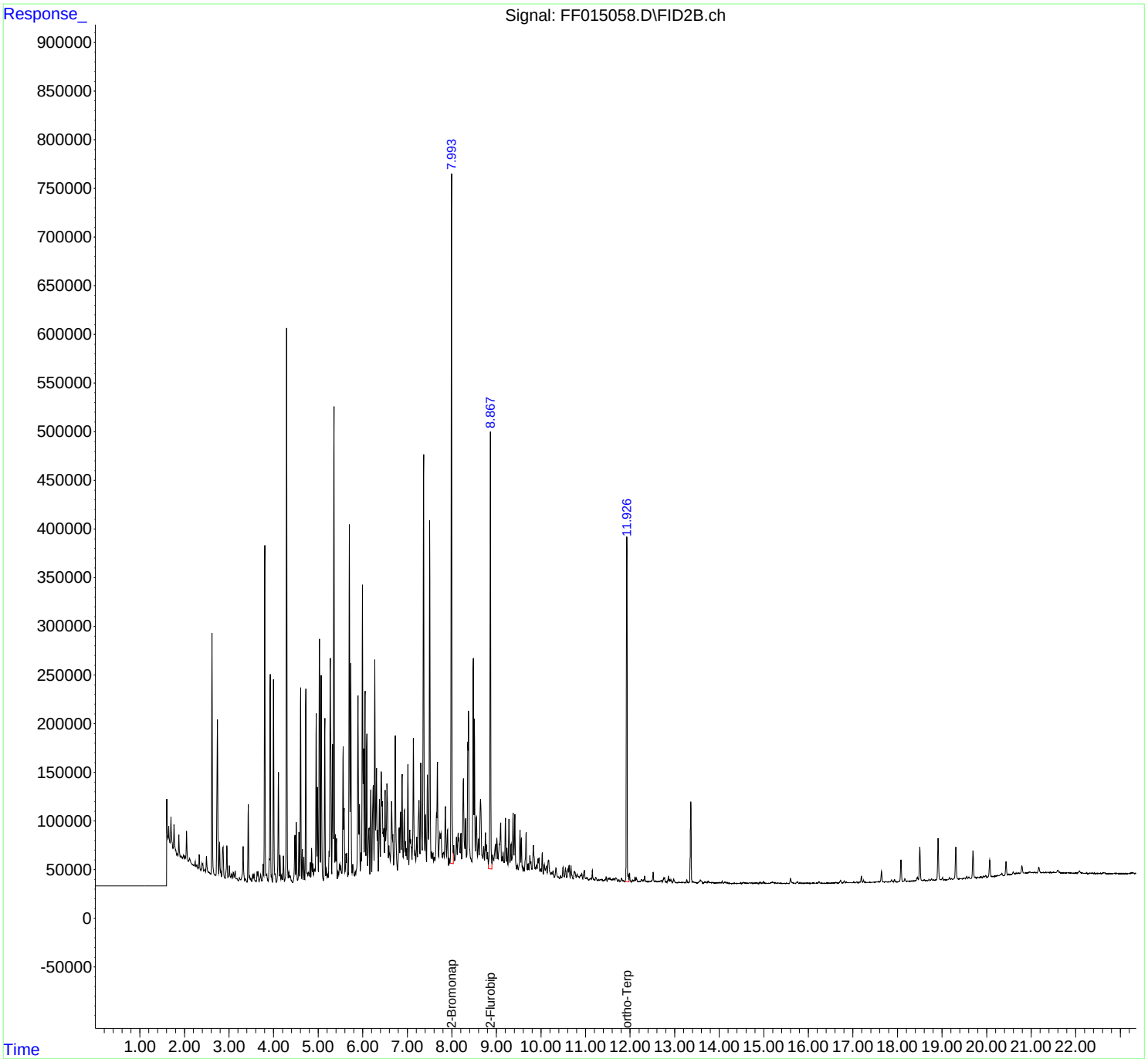
Quantitation Report (QT Reviewed)

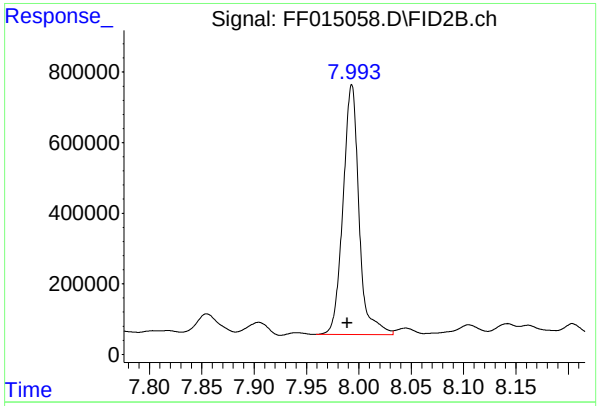
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015058.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:46
Operator : YP\AJ
Sample : P4839-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13

Integration File: autoint1.e
Quant Time: Nov 15 13:56:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

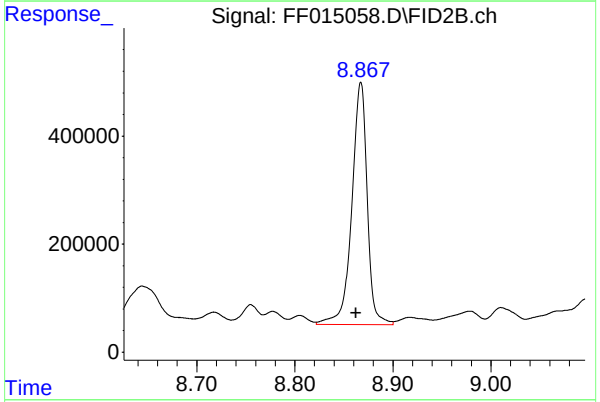




#4 2-Bromonaphthalene (SURR)

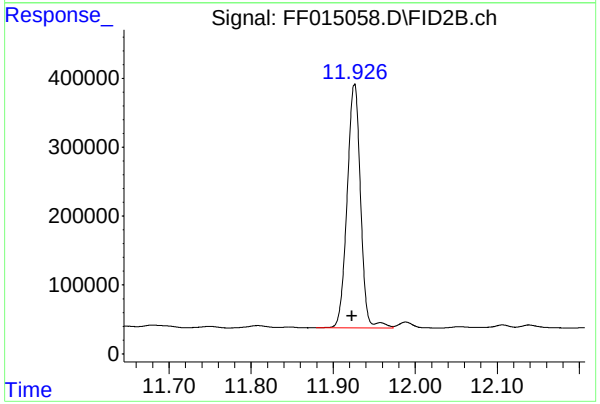
R.T.: 7.993 min
Delta R.T.: 0.004 mi
Response: 7535547
Conc: 61.71 ug/m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13



#6 2-Flurobiphenyl (SURR)

R.T.: 8.867 min
Delta R.T.: 0.005 min
Response: 4904507
Conc: 60.07 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.926 min
Delta R.T.: 0.003 min
Response: 4027560
Conc: 30.02 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015058.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:46
Sample : P4839-05
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.478	4.401	4.494	BV	47158	523964	6.26%	0.281%
2	4.510	4.494	4.537	VV	60178	617698	7.38%	0.331%
3	4.570	4.537	4.587	VV	50036	521857	6.23%	0.280%
4	4.606	4.587	4.628	VV	198531	1918024	22.90%	1.028%
5	4.645	4.628	4.663	VV	32282	320655	3.83%	0.172%
6	4.679	4.663	4.700	VV	24526	234839	2.80%	0.126%
7	4.723	4.700	4.749	VV	197265	1983736	23.69%	1.063%
8	4.756	4.749	4.769	VV	7986	85865	1.03%	0.046%
9	4.785	4.769	4.805	VV	9036	155626	1.86%	0.083%
10	4.824	4.805	4.838	VV	19061	218221	2.61%	0.117%
11	4.854	4.838	4.868	VV	33517	342008	4.08%	0.183%
12	4.879	4.868	4.897	VV	17935	216130	2.58%	0.116%
13	4.914	4.897	4.925	VV	12319	166716	1.99%	0.089%
14	4.930	4.925	4.935	VV	10899	65600	0.78%	0.035%
15	4.956	4.935	4.972	VV	171972	1771924	21.16%	0.950%
16	4.986	4.972	5.005	VV	96363	1001833	11.96%	0.537%
17	5.030	5.005	5.051	VV	248434	3328819	39.75%	1.784%
18	5.069	5.051	5.118	VV	210965	2565423	30.63%	1.375%
19	5.149	5.118	5.170	VV	167194	1676390	20.02%	0.898%
20	5.183	5.170	5.203	VV	13228	173154	2.07%	0.093%
21	5.213	5.203	5.225	VV	6691	70219	0.84%	0.038%
22	5.246	5.225	5.253	VV	31111	300682	3.59%	0.161%
23	5.272	5.253	5.305	VV	228539	3521020	42.04%	1.887%
24	5.324	5.305	5.337	VV	140259	1467564	17.52%	0.787%
25	5.355	5.337	5.375	VV	487505	4849969	57.91%	2.599%
26	5.387	5.375	5.400	VV	48140	516420	6.17%	0.277%
27	5.412	5.400	5.430	VV	43848	437481	5.22%	0.234%
28	5.447	5.430	5.462	VV	9688	138570	1.65%	0.074%
29	5.484	5.462	5.498	VV	17534	279816	3.34%	0.150%
30	5.508	5.498	5.534	VV	15789	243108	2.90%	0.130%
31	5.560	5.534	5.574	VV	137880	1591434	19.00%	0.853%
32	5.582	5.574	5.602	VV	75008	771325	9.21%	0.413%
33	5.625	5.602	5.635	VV	28344	375527	4.48%	0.201%
34	5.646	5.635	5.664	VV	28989	315199	3.76%	0.169%
35	5.701	5.664	5.719	VV	366052	4200728	50.16%	2.251%
36	5.734	5.719	5.762	VV	223771	2468317	29.47%	1.323%

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37	5.777	5.762	5.816	VV	17396	361805	4.32%	0.194%
38	5.833	5.816	5.844	VV	9583	130472	1.56%	0.070%
39	5.895	5.844	5.917	VV	190594	2672432	31.91%	1.432%
40	5.928	5.917	5.947	VV	79111	852915	10.18%	0.457%
41	5.966	5.947	5.975	VV	29295	367237	4.39%	0.197%
42	5.995	5.975	6.010	VV	304062	3313191	39.56%	1.776%
43	6.019	6.010	6.035	VV	136235	1468789	17.54%	0.787%
44	6.052	6.035	6.072	VV	195558	2076411	24.79%	1.113%
45	6.092	6.072	6.110	VV	150921	1650837	19.71%	0.885%
46	6.141	6.110	6.162	VV	54574	1064605	12.71%	0.571%
47	6.182	6.162	6.204	VV	94183	1226497	14.65%	0.657%
48	6.236	6.204	6.255	VV	98712	1808709	21.60%	0.969%
49	6.272	6.255	6.290	VV	227830	2501755	29.87%	1.341%
50	6.310	6.290	6.325	VV	116300	1643883	19.63%	0.881%
51	6.333	6.325	6.352	VV	52791	558345	6.67%	0.299%
52	6.376	6.352	6.396	VV	84476	1264660	15.10%	0.678%
53	6.417	6.396	6.434	VV	112817	1876029	22.40%	1.005%
54	6.439	6.434	6.454	VV	82339	853733	10.19%	0.458%
55	6.459	6.454	6.466	VV	50887	352115	4.20%	0.189%
56	6.476	6.466	6.488	VV	54820	597193	7.13%	0.320%
57	6.503	6.488	6.518	VV	93655	1101362	13.15%	0.590%
58	6.546	6.518	6.577	VV	100177	2277185	27.19%	1.220%
59	6.589	6.577	6.619	VV	36845	731095	8.73%	0.392%
60	6.650	6.619	6.668	VV	82118	1441776	17.22%	0.773%
61	6.676	6.668	6.695	VV	48430	560779	6.70%	0.301%
62	6.732	6.695	6.781	VV	149588	2620704	31.29%	1.405%
63	6.818	6.781	6.832	VV	55264	1021536	12.20%	0.547%
64	6.848	6.832	6.867	VV	71512	1087191	12.98%	0.583%
65	6.884	6.867	6.909	VV	109979	1549090	18.50%	0.830%
66	6.933	6.909	6.949	VV	73544	1136531	13.57%	0.609%
67	6.959	6.949	6.972	VV	41393	475226	5.67%	0.255%
68	6.984	6.972	6.997	VV	34368	439251	5.25%	0.235%
69	7.015	6.997	7.036	VV	120458	1412451	16.87%	0.757%
70	7.057	7.036	7.070	VV	52967	789159	9.42%	0.423%
71	7.078	7.070	7.106	VV	43456	787147	9.40%	0.422%
72	7.138	7.106	7.168	VV	147469	2369331	28.29%	1.270%
73	7.176	7.168	7.192	VV	29717	378011	4.51%	0.203%
74	7.213	7.192	7.229	VV	45656	758277	9.05%	0.406%
75	7.263	7.229	7.285	VV	83349	1857193	22.18%	0.995%
76	7.305	7.285	7.335	VV	122045	1993878	23.81%	1.069%
77	7.367	7.335	7.394	VV	439636	5824991	69.56%	3.122%
78	7.411	7.394	7.432	VV	68954	1018062	12.16%	0.546%
79	7.453	7.432	7.481	VV	109680	1848878	22.08%	0.991%
80	7.504	7.481	7.536	VV	370576	4633631	55.33%	2.483%
81	7.552	7.536	7.566	VV	30768	482723	5.76%	0.259%
82	7.577	7.566	7.592	VV	29054	402019	4.80%	0.215%
83	7.607	7.592	7.621	VV	25324	416900	4.98%	0.223%
84	7.656	7.621	7.663	VV	71364	1053954	12.59%	0.565%
85	7.677	7.663	7.705	VV	122944	1771263	21.15%	0.949%
86	7.731	7.705	7.742	VV	49416	905864	10.82%	0.485%
87	7.758	7.742	7.789	VV	50029	1113528	13.30%	0.597%
88	7.805	7.789	7.811	VV	29680	370044	4.42%	0.198%
89	7.818	7.811	7.831	VV	30047	330517	3.95%	0.177%

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90	7.855	7.831	7.883	VV	77477	1489048	17.78%	0.798%
91	7.904	7.883	7.925	VV	53632	949809	11.34%	0.509%
92	7.941	7.925	7.958	VV	23970	417300	4.98%	0.224%
93	7.993	7.958	8.032	VV	727398	8374569	100.00%	4.488%
94	8.045	8.032	8.063	VV	37224	567137	6.77%	0.304%
95	8.105	8.063	8.123	VV	46484	1135900	13.56%	0.609%
96	8.142	8.123	8.153	VV	49849	741898	8.86%	0.398%
97	8.161	8.153	8.189	VV	45404	806818	9.63%	0.432%
98	8.204	8.189	8.222	VV	50063	737047	8.80%	0.395%
99	8.260	8.222	8.294	VV	106267	2452163	29.28%	1.314%
100	8.309	8.294	8.328	VV	65445	913103	10.90%	0.489%
101	8.361	8.328	8.366	VV	143358	1595631	19.05%	0.855%
102	8.375	8.366	8.448	VV	175869	2859726	34.15%	1.533%
103	8.481	8.448	8.496	VV	229973	2912444	34.78%	1.561%
104	8.508	8.496	8.528	VV	167168	1883795	22.49%	1.010%
105	8.553	8.528	8.578	VV	67010	1420160	16.96%	0.761%
106	8.598	8.578	8.616	VV	43709	799996	9.55%	0.429%
107	8.645	8.616	8.697	VV	85233	2411098	28.79%	1.292%
108	8.717	8.697	8.736	VV	36869	684796	8.18%	0.367%
109	8.755	8.736	8.768	VV	50679	709985	8.48%	0.381%
110	8.777	8.768	8.793	VV	38350	490190	5.85%	0.263%
111	8.805	8.793	8.822	VV	30778	430267	5.14%	0.231%
112	8.867	8.822	8.900	VV	463297	5544248	66.20%	2.971%
113	8.918	8.900	8.941	VV	27406	591365	7.06%	0.317%
114	8.979	8.941	8.994	VV	38696	963214	11.50%	0.516%
115	9.011	8.994	9.036	VV	45190	874284	10.44%	0.469%
116	9.096	9.036	9.117	VV	60887	1850665	22.10%	0.992%
117	9.127	9.117	9.138	VV	26220	301857	3.60%	0.162%
118	9.151	9.138	9.173	VV	31063	534304	6.38%	0.286%
119	9.204	9.173	9.224	VV	65858	1115250	13.32%	0.598%
120	9.239	9.224	9.260	VV	35034	580875	6.94%	0.311%
121	9.283	9.260	9.304	VV	64865	989036	11.81%	0.530%
122	9.330	9.304	9.344	VV	39317	667353	7.97%	0.358%
123	9.376	9.344	9.395	VV	71275	1230028	14.69%	0.659%
124	9.416	9.395	9.453	VV	69874	1198327	14.31%	0.642%
125	9.470	9.453	9.490	VV	17480	341621	4.08%	0.183%
126	9.532	9.490	9.548	VV	53886	958179	11.44%	0.514%
127	9.563	9.548	9.580	VV	46152	584154	6.98%	0.313%
128	9.585	9.580	9.599	VV	16048	160023	1.91%	0.086%
129	9.612	9.599	9.628	VV	14945	228277	2.73%	0.122%
130	9.667	9.628	9.696	VV	51159	1044857	12.48%	0.560%
131	9.712	9.696	9.730	VV	19107	320631	3.83%	0.172%
132	9.753	9.730	9.767	VV	27776	464935	5.55%	0.249%
133	9.775	9.767	9.794	VV	21475	290454	3.47%	0.156%
134	9.831	9.794	9.868	VV	38314	1017201	12.15%	0.545%
135	9.875	9.868	9.879	VV	14477	92528	1.10%	0.050%
136	9.901	9.879	9.915	VV	17759	344217	4.11%	0.184%
137	9.931	9.915	9.944	VV	24264	354072	4.23%	0.190%
138	9.955	9.944	9.975	VV	25108	365223	4.36%	0.196%
139	9.995	9.975	10.010	VV	13839	262663	3.14%	0.141%
140	10.030	10.010	10.054	VV	30666	471785	5.63%	0.253%
141	10.075	10.054	10.097	VV	18184	362385	4.33%	0.194%

142	10.124	10.097	10.142	VV	16683	374479	4.47%	0.201%
143	10.175	10.142	10.219	VV	22802	695785	8.31%	0.373%
144	10.234	10.219	10.251	VV	10150	178802	2.14%	0.096%
145	10.271	10.251	10.305	VV	11610	282367	3.37%	0.151%
146	10.337	10.305	10.384	VV	14787	416341	4.97%	0.223%
147	10.395	10.384	10.418	VV	5877	102448	1.22%	0.055%
148	10.439	10.418	10.454	VV	6958	122453	1.46%	0.066%
149	10.495	10.454	10.526	VV	15916	349248	4.17%	0.187%
150	10.550	10.526	10.577	VV	14783	292217	3.49%	0.157%
151	10.604	10.577	10.616	VV	14228	232802	2.78%	0.125%
152	10.631	10.616	10.656	VV	17504	287648	3.43%	0.154%
153	10.674	10.656	10.721	VV	17395	346021	4.13%	0.185%
154	10.749	10.721	10.762	VV	11566	196399	2.35%	0.105%
155	10.767	10.762	10.791	VV	10287	137695	1.64%	0.074%
156	10.812	10.791	10.836	VV	9353	197137	2.35%	0.106%
157	10.848	10.836	10.864	VV	6576	98234	1.17%	0.053%
158	10.888	10.864	10.902	VV	7551	150889	1.80%	0.081%
159	10.919	10.902	10.938	VV	9385	155144	1.85%	0.083%
160	10.973	10.938	10.997	VV	12563	290934	3.47%	0.156%
161	11.032	10.997	11.049	VV	5493	147724	1.76%	0.079%
162	11.054	11.049	11.069	VV	4080	42327	0.51%	0.023%
163	11.116	11.069	11.132	VV	4585	137841	1.65%	0.074%
164	11.154	11.132	11.207	VV	12876	245908	2.94%	0.132%
165	11.231	11.207	11.272	VV	5664	145233	1.73%	0.078%
166	11.295	11.272	11.311	VV	3245	63652	0.76%	0.034%
167	11.333	11.311	11.352	VV	3653	75646	0.90%	0.041%
168	11.372	11.352	11.390	VV	3478	66430	0.79%	0.036%
169	11.463	11.390	11.485	VV	6264	185168	2.21%	0.099%
170	11.510	11.485	11.529	VV	4987	101962	1.22%	0.055%
171	11.547	11.529	11.572	VV	5265	105787	1.26%	0.057%
172	11.579	11.572	11.591	VV	3188	34309	0.41%	0.018%
173	11.604	11.591	11.616	VV	3797	51036	0.61%	0.027%
174	11.633	11.616	11.661	VV	4370	100673	1.20%	0.054%
175	11.680	11.661	11.722	VV	5349	136876	1.63%	0.073%
176	11.749	11.722	11.774	VV	3490	71779	0.86%	0.038%
177	11.808	11.774	11.834	VV	4728	102889	1.23%	0.055%
178	11.847	11.834	11.872	VV	2604	45654	0.55%	0.024%
179	11.926	11.872	11.950	VV	355093	4015274	47.95%	2.152%
180	11.958	11.950	11.973	VV	9056	93622	1.12%	0.050%
181	11.989	11.973	12.029	VV	9886	144610	1.73%	0.078%
182	12.055	12.029	12.085	VV	3240	75689	0.90%	0.041%
183	12.107	12.085	12.122	VV	5796	85597	1.02%	0.046%
184	12.138	12.122	12.192	VV	5672	115693	1.38%	0.062%
185	12.211	12.192	12.228	VV	1891	34535	0.41%	0.019%
186	12.256	12.228	12.282	VV	3708	88209	1.05%	0.047%
187	12.296	12.282	12.307	VV	3000	37497	0.45%	0.020%
188	12.326	12.307	12.348	VV	7000	102402	1.22%	0.055%
189	12.361	12.348	12.384	VV	2196	36609	0.44%	0.020%
190	12.400	12.384	12.410	VV	1672	23928	0.29%	0.013%
191	12.430	12.410	12.447	VV	1929	38324	0.46%	0.021%
192	12.458	12.447	12.474	VV	2031	28627	0.34%	0.015%
193	12.493	12.474	12.499	VV	2986	37585	0.45%	0.020%
194	12.517	12.499	12.552	VV	11098	159485	1.90%	0.085%

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195	12.575	12.552	12.594	VV	2355	47562	0.57%	0.025%
196	12.607	12.594	12.620	VV	1763	23469	0.28%	0.013%
197	12.638	12.620	12.647	VV	1919	26976	0.32%	0.014%
198	12.652	12.647	12.667	VV	1815	19842	0.24%	0.011%
199	12.682	12.667	12.687	VV	2125	22561	0.27%	0.012%
200	12.703	12.687	12.726	VV	2993	50625	0.60%	0.027%
201	12.749	12.726	12.758	VV	4861	61673	0.74%	0.033%
202	12.772	12.758	12.801	VV	5728	92064	1.10%	0.049%
203	12.827	12.801	12.835	VV	1792	28611	0.34%	0.015%
204	12.858	12.835	12.878	VV	7104	107039	1.28%	0.057%
205	12.895	12.878	12.907	VV	3669	52199	0.62%	0.028%
206	12.919	12.907	12.951	VV	3642	59351	0.71%	0.032%
207	12.974	12.951	13.022	VV	4605	92504	1.10%	0.050%
208	13.030	13.022	13.051	VV	709	10832	0.13%	0.006%
209	13.075	13.051	13.081	VV	932	14076	0.17%	0.008%
210	13.099	13.081	13.121	VV	1284	22462	0.27%	0.012%
211	13.131	13.121	13.151	VV	922	13711	0.16%	0.007%
212	13.165	13.151	13.179	VV	1078	15655	0.19%	0.008%
213	13.192	13.179	13.205	VV	1194	16122	0.19%	0.009%
214	13.211	13.205	13.247	VV	921	18303	0.22%	0.010%
215	13.271	13.247	13.294	VV	3636	49284	0.59%	0.026%
216	13.361	13.294	13.391	VV	83700	1068222	12.76%	0.572%
217	13.409	13.391	13.433	VV	1770	35121	0.42%	0.019%
218	13.447	13.433	13.469	VV	1237	22390	0.27%	0.012%
219	13.474	13.469	13.504	VV	831	12532	0.15%	0.007%
220	13.553	13.504	13.559	VV	2041	37611	0.45%	0.020%
221	13.579	13.559	13.593	VV	3460	55489	0.66%	0.030%
222	13.603	13.593	13.651	VV	2574	40729	0.49%	0.022%
223	13.671	13.651	13.686	VV	1804	25736	0.31%	0.014%
224	13.702	13.686	13.721	VV	1698	26918	0.32%	0.014%
225	13.726	13.721	13.729	VV	853	3973	0.05%	0.002%
226	13.753	13.729	13.796	VV	2531	54192	0.65%	0.029%
227	13.821	13.796	13.838	VV	1017	20477	0.24%	0.011%
228	13.859	13.838	13.899	VV	1359	28272	0.34%	0.015%
229	13.932	13.899	13.948	VV	833	16185	0.19%	0.009%
230	13.970	13.948	13.992	VV	1012	18186	0.22%	0.010%
231	14.009	13.992	14.031	VV	1294	20114	0.24%	0.011%
232	14.064	14.031	14.088	VV	2370	41827	0.50%	0.022%
233	14.116	14.088	14.124	VV	1328	18266	0.22%	0.010%
234	14.137	14.124	14.159	VV	1655	22583	0.27%	0.012%
235	14.178	14.159	14.197	VV	1066	14412	0.17%	0.008%
236	14.218	14.197	14.262	VV	389	9874	0.12%	0.005%
237	14.272	14.268	14.302	VV	200	1062	0.01%	0.001%
238	14.334	14.302	14.361	PV	371	9681	0.12%	0.005%
239	14.372	14.361	14.397	VV	232	3452	0.04%	0.002%
240	14.406	14.397	14.423	VV	308	3342	0.04%	0.002%
241	14.429	14.423	14.433	VV	212	1121	0.01%	0.001%
242	14.440	14.433	14.444	VV	256	1235	0.01%	0.001%
243	14.449	14.444	14.462	VV	257	2329	0.03%	0.001%
244	14.481	14.462	14.497	VV	646	8474	0.10%	0.005%
245	14.513	14.497	14.522	VV	402	4630	0.06%	0.002%
246	14.550	14.522	14.575	VV	1446	25832	0.31%	0.014%

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247	14.580	14.575	14.621	VV	613	12005	0.14%	0.006%
248	14.632	14.621	14.640	VV	400	3711	0.04%	0.002%
249	14.645	14.640	14.652	VV	294	1737	0.02%	0.001%
250	14.677	14.652	14.710	VV	1032	21284	0.25%	0.011%
251	14.732	14.710	14.754	VV	874	14124	0.17%	0.008%
252	14.775	14.754	14.781	VV	556	6097	0.07%	0.003%
253	14.782	14.781	14.791	VV	540	2875	0.03%	0.002%
254	14.802	14.791	14.818	VV	793	10446	0.12%	0.006%
255	14.839	14.818	14.858	VV	1037	14732	0.18%	0.008%
256	14.867	14.858	14.894	VV	431	7789	0.09%	0.004%
257	14.914	14.894	14.944	VV	1566	23815	0.28%	0.013%
258	14.964	14.944	14.969	VV	477	6089	0.07%	0.003%
259	14.993	14.969	15.025	VV	2143	33997	0.41%	0.018%
260	15.029	15.025	15.039	VV	420	3266	0.04%	0.002%
261	15.058	15.039	15.088	VV	486	8467	0.10%	0.005%
262	15.105	15.088	15.122	VV	276	4047	0.05%	0.002%
263	15.150	15.129	15.161	VV	890	10921	0.13%	0.006%
264	15.188	15.161	15.202	VV	1556	29575	0.35%	0.016%
265	15.216	15.202	15.240	VV	1431	20945	0.25%	0.011%
266	15.261	15.240	15.284	VV	1155	16365	0.20%	0.009%
267	15.318	15.284	15.345	VV	820	17297	0.21%	0.009%
268	15.350	15.345	15.366	VV	421	4427	0.05%	0.002%
269	15.389	15.366	15.419	VV	653	11056	0.13%	0.006%
270	15.429	15.419	15.436	VV	218	1490	0.02%	0.001%
271	15.459	15.436	15.484	VV	462	7342	0.09%	0.004%
272	15.509	15.484	15.532	PV	531	7467	0.09%	0.004%
273	15.541	15.532	15.549	VV	125	1049	0.01%	0.001%
274	15.597	15.562	15.702	VV	5261	116277	1.39%	0.062%
275	15.707	15.702	15.713	VV	341	1923	0.02%	0.001%
276	15.753	15.713	15.801	VV	1694	39396	0.47%	0.021%
277	15.827	15.801	15.843	VV	880	9901	0.12%	0.005%
278	15.862	15.843	15.890	VV	439	7396	0.09%	0.004%
279	15.954	15.890	15.975	VV	531	14133	0.17%	0.008%
280	15.979	15.975	15.982	VV	364	1489	0.02%	0.001%
281	15.986	15.982	16.022	VV	376	6187	0.07%	0.003%
282	16.055	16.022	16.084	VV	315	7500	0.09%	0.004%
283	16.111	16.084	16.118	VV	449	5913	0.07%	0.003%
284	16.122	16.118	16.136	VV	398	3050	0.04%	0.002%
285	16.140	16.136	16.159	VV	271	3016	0.04%	0.002%
286	16.163	16.159	16.174	VV	233	1597	0.02%	0.001%
287	16.200	16.174	16.215	VV	493	7639	0.09%	0.004%
288	16.238	16.215	16.276	VV	1996	28977	0.35%	0.016%
289	16.294	16.276	16.318	VV	454	6656	0.08%	0.004%
290	16.332	16.318	16.367	PV	175	1774	0.02%	0.001%
291	16.377	16.367	16.389	PV	171	1075	0.01%	0.001%
292	16.421	16.389	16.450	VV	321	5624	0.07%	0.003%
293	16.460	16.450	16.472	VV	157	1530	0.02%	0.001%
294	16.529	16.496	16.559	VV	152	2703	0.03%	0.001%
295	16.579	16.559	16.589	VV	127	1235	0.01%	0.001%
296	16.620	16.589	16.657	PV	692	13910	0.17%	0.007%
297	16.721	16.657	16.776	PV	2820	58348	0.70%	0.031%
298	16.803	16.776	16.825	VV	2302	31945	0.38%	0.017%
299	16.850	16.825	16.879	VV	934	15931	0.19%	0.009%

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300	16.888	16.879	16.894	VV	278	2134	0.03%	0.001%
301	16.899	16.894	16.917	VV	248	2629	0.03%	0.001%
302	16.922	16.917	16.934	VV	222	1534	0.02%	0.001%
303	16.949	16.934	16.975	VV	258	4016	0.05%	0.002%
304	17.027	16.987	17.055	VV	774	14132	0.17%	0.008%
305	17.085	17.055	17.124	VV	1082	17845	0.21%	0.010%
306	17.155	17.133	17.162	VV	800	8842	0.11%	0.005%
307	17.189	17.162	17.215	VV	6598	91768	1.10%	0.049%
308	17.236	17.215	17.291	VV	2211	36676	0.44%	0.020%
309	17.294	17.291	17.314	VV	194	1798	0.02%	0.001%
310	17.331	17.314	17.361	VV	170	2533	0.03%	0.001%
311	17.379	17.361	17.401	PV	202	2830	0.03%	0.002%
312	17.438	17.415	17.444	PV	246	2518	0.03%	0.001%
313	17.462	17.452	17.472	VV	241	2297	0.03%	0.001%
314	17.477	17.472	17.491	VV	215	1633	0.02%	0.001%
315	17.529	17.491	17.545	VV	725	12624	0.15%	0.007%
316	17.560	17.545	17.565	VV	452	4583	0.05%	0.002%
317	17.584	17.565	17.598	VV	496	8514	0.10%	0.005%
318	17.639	17.598	17.692	VV	11044	168574	2.01%	0.090%
319	17.733	17.701	17.777	VV	509	12851	0.15%	0.007%
320	17.787	17.777	17.796	PV	152	1169	0.01%	0.001%
321	17.811	17.807	17.833	VV	196	1495	0.02%	0.001%
322	17.866	17.833	17.896	PV	2238	32003	0.38%	0.017%
323	17.933	17.896	17.967	VV	2329	34852	0.42%	0.019%
324	18.076	18.001	18.122	PV	22578	343822	4.11%	0.184%
325	18.125	18.122	18.136	VV	418	3066	0.04%	0.002%
326	18.165	18.136	18.204	VV	2760	45338	0.54%	0.024%
327	18.226	18.204	18.239	VV	313	4559	0.05%	0.002%
328	18.257	18.239	18.279	VV	404	6034	0.07%	0.003%
329	18.307	18.279	18.331	PV	328	4965	0.06%	0.003%
330	18.350	18.331	18.377	VV	988	13877	0.17%	0.007%
331	18.399	18.377	18.413	VV	814	10256	0.12%	0.005%
332	18.438	18.413	18.469	VV	3414	78134	0.93%	0.042%
333	18.500	18.469	18.557	VV	35031	530360	6.33%	0.284%
334	18.595	18.557	18.621	VV	1066	25733	0.31%	0.014%
335	18.627	18.621	18.656	VV	489	5465	0.07%	0.003%
336	18.707	18.678	18.735	PV	1364	17956	0.21%	0.010%
337	18.764	18.735	18.790	VV	1637	23705	0.28%	0.013%

Sum of corrected areas: 186589381

Aromatic EPH 111524.M Fri Nov 15 14:01:32 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-13		SDG No.:	P4839	
Lab Sample ID:	P4839-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051303.D	10	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	107		4.40	11.6	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	135		2.78	7.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	6.70	J	3.47	11.6	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	9.26	U	9.26	15.4	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	20.8	U	20.8	23.1	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	3.56		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-05DL	Acq On:	18 Nov 2024 10:51
Client Sample ID:	P4839-05DL	Operator:	YP\AJ
Data file:	FE051303.D	Misc:	
Instrument:	FID_E	ALS Vial:	9
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.758	19571921	139.885	300	ug/ml
Aliphatic C12-C16	6.759	10.191	24710305	175.705	200	ug/ml
Aliphatic C16-C21	10.192	13.551	1196256	8.683	300	ug/ml
Aliphatic C21-C28	13.552	17.208	216948	1.62	400	ug/ml
Aliphatic C28-C40	17.209	22.059	757804	5.886	600	ug/ml
Aliphatic EPH	3.139	22.059	46453234	331.778		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	404627	3.56		ug/ml
Aliphatic C9-C28	3.139	17.208	45695430	325.893	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051303.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 10:51
Operator : YP\AJ
Sample : P4839-05DL 10X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-13DL

Integration File: autoint1.e
Quant Time: Nov 19 02:48:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.286	404627	3.564 ug/ml
Spiked Amount 50.000		Recovery =	7.13%
Target Compounds			

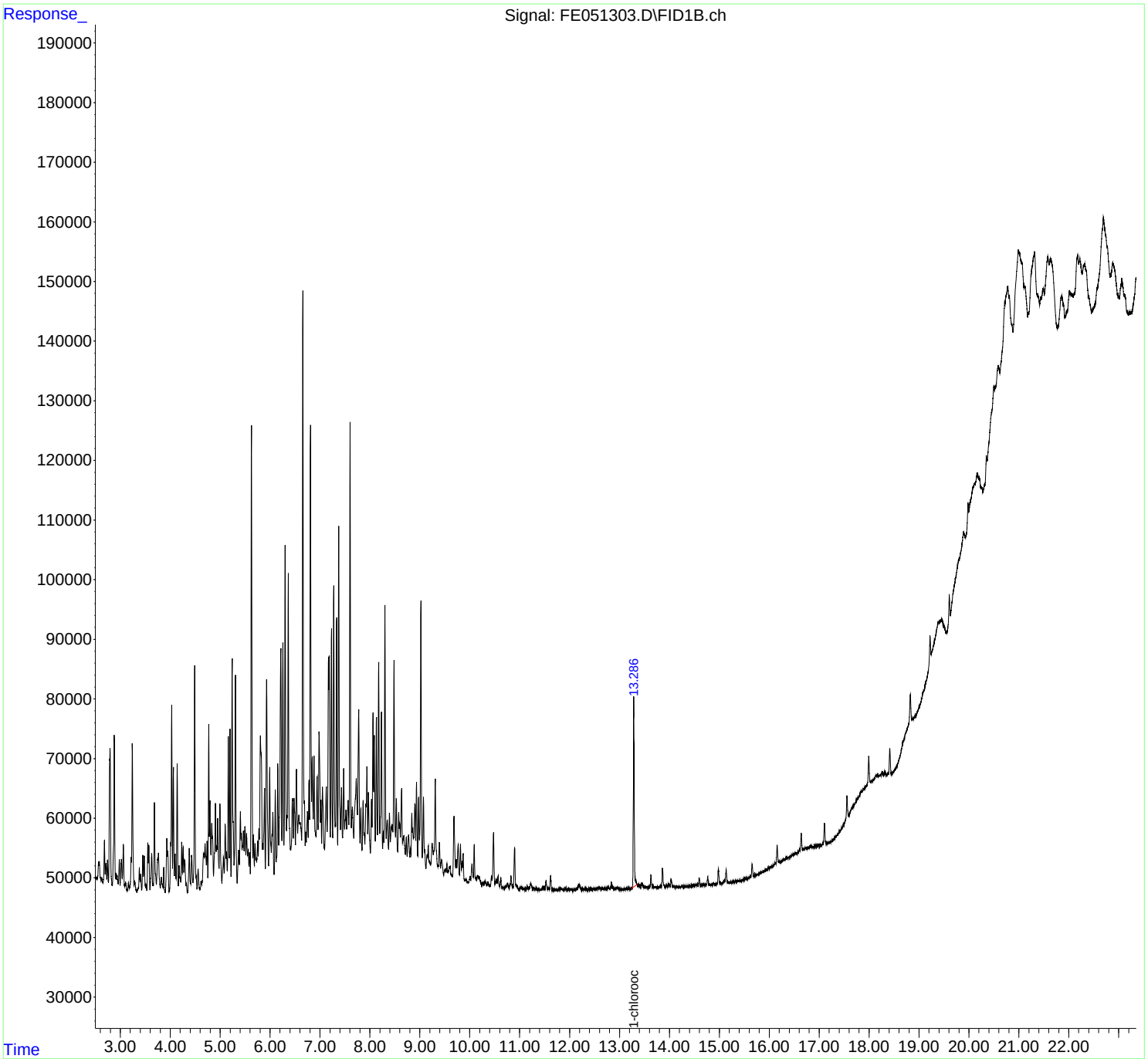
(f)=RT Delta > 1/2 Window (m)=manual int.

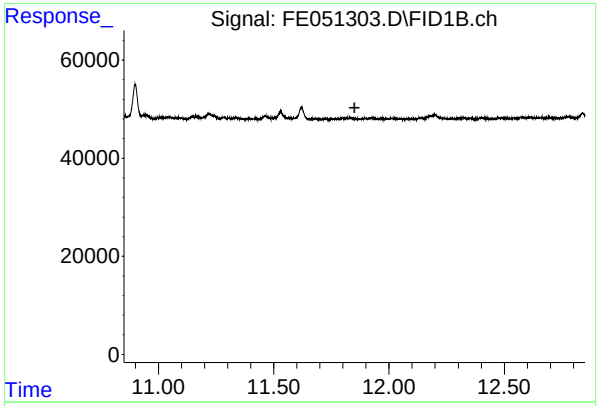
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051303.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 10:51
Operator : YP\AJ
Sample : P4839-05DL 10X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-13DL

Integration File: autoint1.e
Quant Time: Nov 19 02:48:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

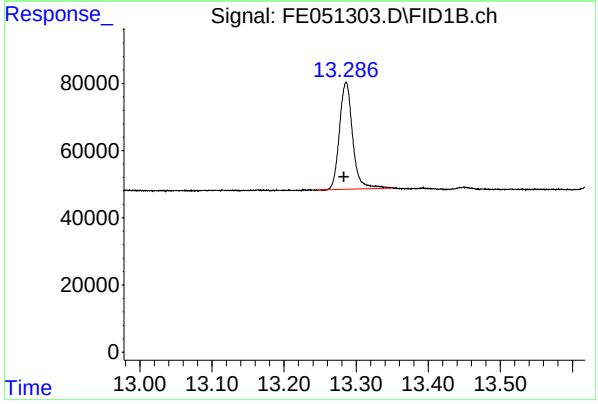




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-13DL



#12 1-chlorooctadecane (SURR)

R.T.: 13.286 min
Delta R.T.: 0.003 min
Response: 404627
Conc: 3.56 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051303.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 10:51
Sample : P4839-05DL 10X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.240	3.214	3.276	BV	21081	229656	15.99%	0.490%
2	3.289	3.276	3.332	PV	796	9160	0.64%	0.020%
3	3.381	3.332	3.396	PV	4003	55707	3.88%	0.119%
4	3.408	3.396	3.428	VV	2961	33765	2.35%	0.072%
5	3.449	3.428	3.464	VV	6081	70484	4.91%	0.150%
6	3.480	3.464	3.511	VV	5980	84071	5.85%	0.179%
7	3.518	3.511	3.530	VV	1180	10261	0.71%	0.022%
8	3.551	3.530	3.561	VV	8164	84809	5.90%	0.181%
9	3.572	3.561	3.594	VV	7833	86410	6.02%	0.184%
10	3.629	3.594	3.664	VV	6477	115685	8.05%	0.247%
11	3.683	3.664	3.721	VV	14859	198846	13.84%	0.424%
12	3.763	3.721	3.801	VV	6570	172485	12.01%	0.368%
13	3.822	3.801	3.854	VV	2449	49416	3.44%	0.105%
14	3.869	3.854	3.896	VV	4106	43454	3.03%	0.093%
15	3.932	3.896	3.980	VV	9032	196526	13.68%	0.419%
16	4.029	3.980	4.047	VV	31255	407367	28.36%	0.869%
17	4.063	4.047	4.083	VV	20702	234716	16.34%	0.501%
18	4.097	4.083	4.116	VV	6430	88319	6.15%	0.188%
19	4.139	4.116	4.162	VV	21516	248640	17.31%	0.530%
20	4.180	4.162	4.211	VV	4426	80217	5.58%	0.171%
21	4.231	4.211	4.245	VV	8370	100111	6.97%	0.213%
22	4.260	4.245	4.275	VV	7630	95870	6.67%	0.204%
23	4.289	4.275	4.343	VV	5435	108733	7.57%	0.232%
24	4.381	4.343	4.407	PV	7359	110284	7.68%	0.235%
25	4.429	4.407	4.454	VV	6225	104555	7.28%	0.223%
26	4.489	4.454	4.538	VV	37831	469770	32.70%	1.002%
27	4.559	4.538	4.597	VV	3909	64549	4.49%	0.138%
28	4.618	4.597	4.631	VV	1933	26778	1.86%	0.057%
29	4.671	4.631	4.684	VV	6376	139402	9.70%	0.297%
30	4.698	4.684	4.724	VV	8188	154486	10.75%	0.329%
31	4.739	4.724	4.753	VV	8559	107101	7.46%	0.228%
32	4.772	4.753	4.786	VV	28022	293598	20.44%	0.626%
33	4.796	4.786	4.815	VV	15321	188778	13.14%	0.403%
34	4.832	4.815	4.867	VV	11526	259085	18.04%	0.553%
35	4.906	4.867	4.921	VV	14945	264846	18.44%	0.565%
36	4.950	4.921	4.977	VV	12299	260358	18.13%	0.555%

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37	4.996	4.977	5.034	VV	14738	237652	16.54%	0.507%
38	5.067	5.034	5.082	VV	5887	112084	7.80%	0.239%
39	5.102	5.082	5.142	VV	11456	246526	17.16%	0.526%
40	5.164	5.142	5.181	VV	26057	308463	21.47%	0.658%
41	5.197	5.181	5.218	VV	27246	306204	21.32%	0.653%
42	5.240	5.218	5.279	VV	39053	572383	39.85%	1.221%
43	5.307	5.279	5.341	VV	36342	486595	33.87%	1.038%
44	5.371	5.341	5.384	VV	7058	126665	8.82%	0.270%
45	5.406	5.384	5.419	VV	13520	197533	13.75%	0.421%
46	5.426	5.419	5.439	VV	9904	105654	7.36%	0.225%
47	5.467	5.439	5.479	VV	10172	199078	13.86%	0.425%
48	5.496	5.479	5.515	VV	10992	194407	13.53%	0.415%
49	5.529	5.515	5.552	VV	9788	178371	12.42%	0.380%
50	5.563	5.552	5.577	VV	7252	93028	6.48%	0.198%
51	5.590	5.577	5.604	VV	6682	84110	5.86%	0.179%
52	5.627	5.604	5.656	VV	77149	976451	67.98%	2.082%
53	5.668	5.656	5.685	VV	9664	125789	8.76%	0.268%
54	5.700	5.685	5.732	VV	8074	169876	11.83%	0.362%
55	5.752	5.732	5.763	VV	8523	129863	9.04%	0.277%
56	5.807	5.763	5.861	VV	26026	861835	60.00%	1.838%
57	5.888	5.861	5.906	VV	17382	284900	19.83%	0.608%
58	5.931	5.906	5.970	VV	35507	645358	44.93%	1.376%
59	5.992	5.970	6.024	VV	20792	364142	25.35%	0.777%
60	6.056	6.024	6.080	VV	13291	288467	20.08%	0.615%
61	6.104	6.080	6.123	VV	17191	228144	15.88%	0.487%
62	6.156	6.123	6.175	VV	21416	349467	24.33%	0.745%
63	6.215	6.175	6.237	VV	40714	802158	55.84%	1.711%
64	6.257	6.237	6.278	VV	41818	533857	37.17%	1.138%
65	6.302	6.278	6.330	VV	57982	805697	56.09%	1.718%
66	6.365	6.330	6.415	VV	53130	931787	64.87%	1.987%
67	6.448	6.415	6.465	VV	15682	335593	23.36%	0.716%
68	6.481	6.465	6.508	VV	15691	321533	22.38%	0.686%
69	6.528	6.508	6.554	VV	20509	388448	27.04%	0.828%
70	6.577	6.554	6.632	VV	12918	527739	36.74%	1.125%
71	6.657	6.632	6.705	VV	100052	1436448	100.00%	3.063%
72	6.716	6.705	6.726	VV	10055	116648	8.12%	0.249%
73	6.750	6.726	6.764	VV	13458	250670	17.45%	0.535%
74	6.780	6.764	6.790	VV	18710	227349	15.83%	0.485%
75	6.809	6.790	6.832	VV	77694	1007027	70.11%	2.148%
76	6.845	6.832	6.866	VV	22616	350991	24.43%	0.749%
77	6.882	6.866	6.920	VV	22721	445550	31.02%	0.950%
78	6.942	6.920	6.961	VV	19311	343661	23.92%	0.733%
79	6.983	6.961	7.011	VV	26688	549154	38.23%	1.171%
80	7.020	7.011	7.034	VV	15393	175604	12.22%	0.374%
81	7.051	7.034	7.092	VV	17438	417669	29.08%	0.891%
82	7.126	7.092	7.144	VV	17538	384027	26.73%	0.819%
83	7.186	7.144	7.207	VV	39232	962326	66.99%	2.052%
84	7.230	7.207	7.253	VV	43862	617000	42.95%	1.316%
85	7.275	7.253	7.311	VV	51277	808948	56.32%	1.725%
86	7.333	7.311	7.354	VV	46112	609605	42.44%	1.300%
87	7.376	7.354	7.412	VV	61071	891387	62.05%	1.901%
88	7.431	7.412	7.452	VV	17415	317256	22.09%	0.677%
89	7.475	7.452	7.494	VV	20686	356357	24.81%	0.760%

90	7.521	7.494	7.536	VV	13620	301128	20.96%	0.642%
91	7.563	7.536	7.578	VV	15299	332115	23.12%	0.708%
92	7.603	7.578	7.629	VV	78494	1004454	69.93%	2.142%
93	7.649	7.629	7.677	VV	14186	344864	24.01%	0.735%
94	7.727	7.677	7.750	VV	18914	649613	45.22%	1.385%
95	7.776	7.750	7.802	VV	30441	602211	41.92%	1.284%
96	7.818	7.802	7.841	VV	13944	241288	16.80%	0.515%
97	7.864	7.841	7.899	VV	15188	363589	25.31%	0.775%
98	7.941	7.899	7.958	VV	21057	500043	34.81%	1.066%
99	7.972	7.958	8.011	VV	16603	351480	24.47%	0.750%
100	8.032	8.011	8.044	VV	15424	223138	15.53%	0.476%
101	8.063	8.044	8.076	VV	29872	411124	28.62%	0.877%
102	8.088	8.076	8.108	VV	26054	335552	23.36%	0.716%
103	8.131	8.108	8.152	VV	29038	441128	30.71%	0.941%
104	8.176	8.152	8.199	VV	38026	582366	40.54%	1.242%
105	8.232	8.199	8.256	VV	30160	546723	38.06%	1.166%
106	8.271	8.256	8.280	VV	9972	129268	9.00%	0.276%
107	8.302	8.280	8.327	VV	47933	640885	44.62%	1.367%
108	8.348	8.327	8.373	VV	11930	275140	19.15%	0.587%
109	8.392	8.373	8.411	VV	13112	230155	16.02%	0.491%
110	8.444	8.411	8.460	VV	11142	301495	20.99%	0.643%
111	8.484	8.460	8.513	VV	38597	608937	42.39%	1.299%
112	8.531	8.513	8.555	VV	15567	276331	19.24%	0.589%
113	8.578	8.555	8.612	VV	13308	357746	24.90%	0.763%
114	8.635	8.612	8.656	VV	17214	325611	22.67%	0.694%
115	8.677	8.656	8.710	VV	9284	263285	18.33%	0.561%
116	8.729	8.710	8.747	VV	9100	165079	11.49%	0.352%
117	8.775	8.747	8.800	VV	9488	245919	17.12%	0.524%
118	8.813	8.800	8.822	VV	7131	89120	6.20%	0.190%
119	8.841	8.822	8.871	VV	13036	292559	20.37%	0.624%
120	8.903	8.871	8.919	VV	14647	326641	22.74%	0.697%
121	8.935	8.919	8.957	VV	18301	277800	19.34%	0.592%
122	8.977	8.957	8.993	VV	15737	237453	16.53%	0.506%
123	9.022	8.993	9.050	VV	48715	707119	49.23%	1.508%
124	9.074	9.050	9.124	VV	15803	360722	25.11%	0.769%
125	9.170	9.124	9.214	VV	7628	301453	20.99%	0.643%
126	9.248	9.214	9.270	VV	8019	214421	14.93%	0.457%
127	9.310	9.270	9.361	VV	18828	463826	32.29%	0.989%
128	9.393	9.361	9.418	VV	8177	187523	13.05%	0.400%
129	9.435	9.418	9.481	VV	5258	160113	11.15%	0.341%
130	9.510	9.481	9.528	VV	3765	95890	6.68%	0.204%
131	9.544	9.528	9.561	VV	4668	78731	5.48%	0.168%
132	9.573	9.561	9.578	VV	3539	33131	2.31%	0.071%
133	9.593	9.578	9.600	VV	4106	50531	3.52%	0.108%
134	9.609	9.600	9.652	VV	4172	99043	6.90%	0.211%
135	9.685	9.652	9.717	VV	12549	268262	18.68%	0.572%
136	9.730	9.717	9.743	VV	5350	72809	5.07%	0.155%
137	9.768	9.743	9.793	VV	7820	161542	11.25%	0.344%
138	9.815	9.793	9.833	VV	7840	123873	8.62%	0.264%
139	9.868	9.833	9.898	VV	6253	154028	10.72%	0.328%
140	9.926	9.898	9.984	VV	1960	89236	6.21%	0.190%
141	10.007	9.984	10.020	VV	2355	43580	3.03%	0.093%

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142	10.045	10.020	10.071	VV	4523	98604	6.86%	0.210%
143	10.090	10.071	10.134	VV	7730	140065	9.75%	0.299%
144	10.157	10.134	10.182	VV	2573	67652	4.71%	0.144%
145	10.192	10.182	10.241	VV	2436	60969	4.24%	0.130%
146	10.263	10.241	10.282	VV	1474	30759	2.14%	0.066%
147	10.301	10.282	10.343	VV	1523	47815	3.33%	0.102%
148	10.364	10.343	10.392	VV	1467	34274	2.39%	0.073%
149	10.436	10.392	10.451	VV	2522	51101	3.56%	0.109%
150	10.477	10.451	10.511	VV	9887	161133	11.22%	0.344%
151	10.527	10.511	10.548	VV	2030	35717	2.49%	0.076%
152	10.567	10.548	10.601	VV	2365	48634	3.39%	0.104%
153	10.622	10.601	10.648	VV	2139	35327	2.46%	0.075%
154	10.668	10.648	10.692	VV	578	13927	0.97%	0.030%
155	10.757	10.692	10.783	VV	1298	43000	2.99%	0.092%
156	10.828	10.783	10.863	VV	2472	57946	4.03%	0.124%
157	10.899	10.863	10.928	VV	7265	115019	8.01%	0.245%
158	10.947	10.928	10.980	VV	945	21151	1.47%	0.045%
159	11.047	10.980	11.074	VV	577	23414	1.63%	0.050%
160	11.088	11.074	11.124	VV	458	9194	0.64%	0.020%
161	11.153	11.124	11.186	VV	693	18240	1.27%	0.039%
162	11.221	11.186	11.268	VV	1226	34778	2.42%	0.074%
163	11.283	11.268	11.321	VV	470	11786	0.82%	0.025%
164	11.337	11.321	11.381	VV	498	9918	0.69%	0.021%
165	11.424	11.381	11.440	VV	236	6656	0.46%	0.014%
166	11.463	11.440	11.497	VV	789	15261	1.06%	0.033%
167	11.530	11.497	11.584	VV	1738	33968	2.36%	0.072%
168	11.620	11.584	11.663	VV	2491	40111	2.79%	0.086%
169	11.682	11.663	11.707	VV	204	3264	0.23%	0.007%
170	11.730	11.707	11.744	VV	171	2385	0.17%	0.005%
171	11.834	11.744	11.873	PV	391	16235	1.13%	0.035%
172	11.928	11.873	11.953	VV	406	10964	0.76%	0.023%
173	11.965	11.953	11.990	VV	242	3676	0.26%	0.008%
174	12.016	11.990	12.067	VV	214	6837	0.48%	0.015%
175	12.084	12.067	12.114	VV	165	2584	0.18%	0.006%
176	12.139	12.114	12.153	VV	403	5641	0.39%	0.012%
177	12.198	12.153	12.258	VV	863	27714	1.93%	0.059%
178	12.324	12.258	12.342	VV	292	8749	0.61%	0.019%
179	12.351	12.342	12.378	VV	155	2429	0.17%	0.005%
180	12.403	12.378	12.454	VV	207	6586	0.46%	0.014%
181	12.474	12.454	12.528	VV	255	7318	0.51%	0.016%
182	12.581	12.528	12.597	VV	380	9727	0.68%	0.021%
183	12.612	12.597	12.636	VV	372	6293	0.44%	0.013%
184	12.659	12.636	12.680	VV	273	6039	0.42%	0.013%
185	12.694	12.680	12.725	VV	346	6187	0.43%	0.013%
186	12.778	12.725	12.811	VV	478	13526	0.94%	0.029%
187	12.839	12.811	12.918	VV	1212	25099	1.75%	0.054%
188	12.950	12.918	12.970	VV	294	6289	0.44%	0.013%
189	12.980	12.970	13.015	VV	191	2535	0.18%	0.005%
190	13.105	13.015	13.122	PV	147	2389	0.17%	0.005%
191	13.131	13.122	13.141	VV	74	693	0.05%	0.001%
192	13.165	13.141	13.183	VV	197	2069	0.14%	0.004%
193	13.236	13.183	13.248	VV	164	3551	0.25%	0.008%
194	13.286	13.248	13.369	VV	32068	438966	30.56%	0.936%

rteres

195	13.393	13.369	13.426	VV	698	16933	1.18%	0.036%
196	13.450	13.426	13.503	VV	904	21505	1.50%	0.046%
197	13.516	13.503	13.537	VV	320	5549	0.39%	0.012%
198	13.549	13.537	13.559	VV	288	3392	0.24%	0.007%
199	13.629	13.559	13.659	VV	2241	37419	2.60%	0.080%
200	13.671	13.659	13.708	VV	275	5816	0.40%	0.012%
201	13.741	13.708	13.789	VV	194	6124	0.43%	0.013%
202	13.861	13.789	13.916	VV	3294	55594	3.87%	0.119%
203	13.945	13.916	13.964	VV	301	6771	0.47%	0.014%
204	13.992	13.964	14.018	VV	621	12425	0.87%	0.026%
205	14.036	14.018	14.068	VV	1453	20414	1.42%	0.044%
206	14.081	14.068	14.148	VV	176	5299	0.37%	0.011%
207	14.158	14.148	14.211	VV	137	2531	0.18%	0.005%
208	14.258	14.211	14.300	VV	173	5177	0.36%	0.011%
209	14.333	14.300	14.363	VV	183	2730	0.19%	0.006%
210	16.770	16.742	16.785	VV	736	17793	1.24%	0.038%
211	16.867	16.858	16.896	VV	559	11240	0.78%	0.024%
212	16.945	16.896	16.956	VV	440	15279	1.06%	0.033%
213	16.986	16.956	17.030	VV	427	11761	0.82%	0.025%
214	17.038	17.030	17.044	VV	121	575	0.04%	0.001%
215	17.555	17.151	17.591	PV	4373	5483	0.38%	0.012%
216	17.992	17.591	18.028	VV	6995	584339	40.68%	1.246%
217	18.137	18.028	18.148	VV	2603	167982	11.69%	0.358%

Sum of corrected areas: 46892201

Aliphatic EPH 110724.M Tue Nov 19 08:28:00 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-13		SDG No.:	P4839	
Lab Sample ID:	P4839-05		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	86.4	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015070.D	5	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	39.8		1.74	3.86	mg/kg
Aromatic C12-C16	Aromatic C12-C16	51.1		1.97	5.79	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.6		5.55	9.64	mg/kg
Aromatic C21-C36	Aromatic C21-C36	11.6	U	11.6	15.4	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	13.9		40 - 140	139%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	13.4		40 - 140	134%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	6.68		40 - 140	67%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-05DL	Acq On:	15 Nov 2024 20:51
Client Sample ID:	P4839-05DL	Operator:	YP\AJ
Data file:	FF015070.D	Misc:	
Instrument:	FID_F	ALS Vial:	75
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	14116341	103.2	200	ug/ml
Aromatic C12-C16	6.372	9.062	17887681	132.48	300	ug/ml
Aromatic C16-C21	9.063	13.374	6170456	48.247	500	ug/ml
Aromatic C21-C36	13.375	18.817	539732	4.429	800	ug/ml
Aromatic EPH	4.507	18.817	38714210	288.355		ug/ml
2-Bromonaphthalene (SURR)	7.989	7.989	1701518	13.93		ug/ml
2-Flurobiphenyl (SURR)	8.862	8.862	1095900	13.42		ug/ml
ortho-Terphenyl (SURR)	11.922	11.922	895861	6.68		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015070.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 20:51
Operator : YP\AJ
Sample : P4839-05DL 5X
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 00:26:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.989	1701518	13.934 ug/ml
Spiked Amount 50.000		Recovery = 27.87%	
6) S 2-Flurobiphenyl (SURR)	8.862	1095900	13.423 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 26.85%	
11) S ortho-Terphenyl (SURR)	11.922	895861	6.678 ug/mlm
Spiked Amount 50.000		Recovery = 13.36%	
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015070.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 20:51
Operator : YP\AJ
Sample : P4839-05DL 5X
Misc :
ALS Vial : 75 Sample Multiplier: 1

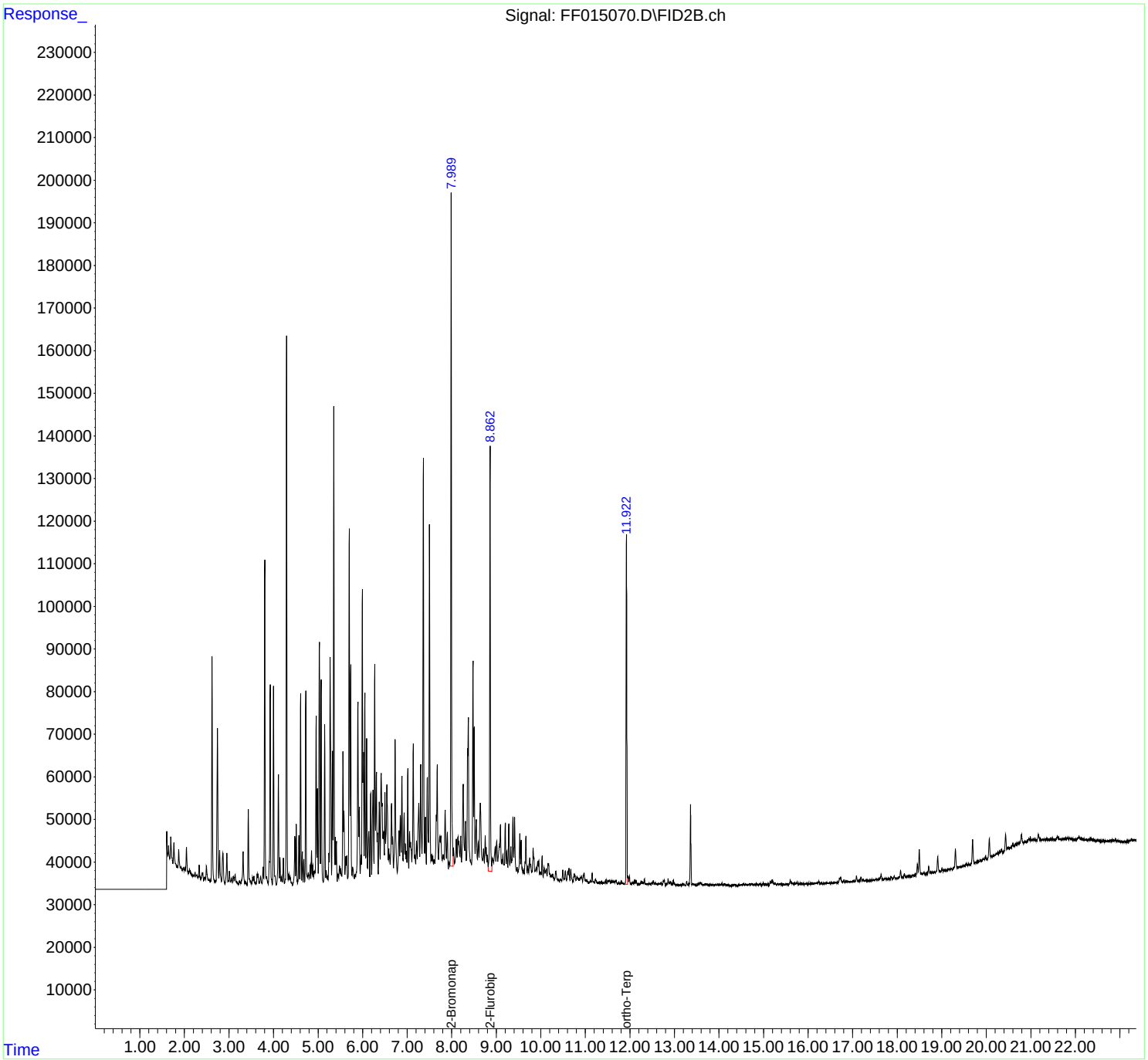
Integration File: autoint1.e
Quant Time: Nov 18 00:26:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

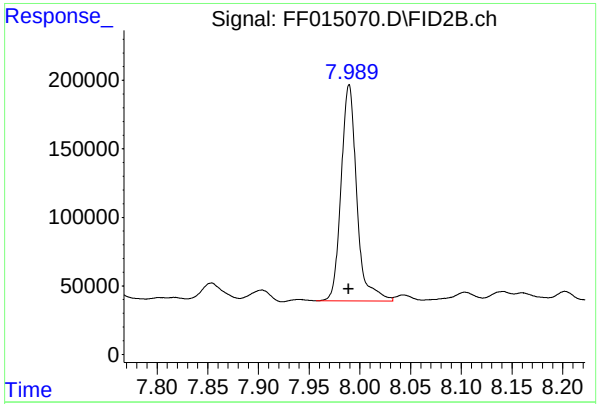
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024





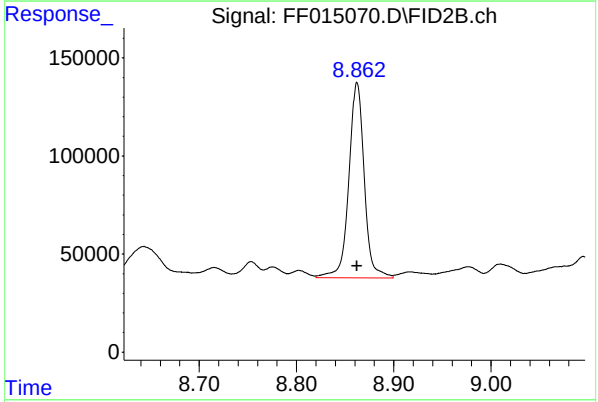
#4 2-Bromonaphthalene (SURR)

R.T.: 7.989 min
Delta R.T.: 0.000 mi
Response: 1701518
Conc: 13.93 ug/m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

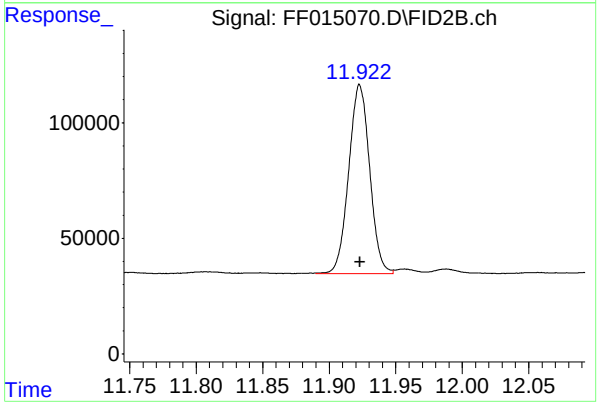
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 1095900
Conc: 13.42 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: 0.000 min
Response: 895861
Conc: 6.68 ug/ml m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11162
Data File : FF015070.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 20:51
Sample : P4839-05DL 5X
Misc :
ALS Vial : 75 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.480	4.427	4.495	PV	11392	143244	7.58%	0.341%
2	4.511	4.495	4.539	VV	14226	154242	8.16%	0.367%
3	4.570	4.539	4.588	VV	11631	133966	7.09%	0.319%
4	4.608	4.588	4.629	VV	44850	448617	23.73%	1.068%
5	4.646	4.629	4.664	VV	7800	83436	4.41%	0.199%
6	4.680	4.664	4.701	VV	5987	64373	3.40%	0.153%
7	4.724	4.701	4.754	VV	45532	469616	24.84%	1.118%
8	4.755	4.754	4.770	VV	2238	18801	0.99%	0.045%
9	4.785	4.770	4.806	VV	2450	44245	2.34%	0.105%
10	4.824	4.806	4.838	VV	4667	58033	3.07%	0.138%
11	4.854	4.838	4.868	VV	8038	85366	4.52%	0.203%
12	4.879	4.868	4.897	VV	4577	57310	3.03%	0.136%
13	4.914	4.897	4.925	VV	3227	45441	2.40%	0.108%
14	4.931	4.925	4.936	VV	2965	19058	1.01%	0.045%
15	4.957	4.936	4.973	VV	39599	412856	21.84%	0.983%
16	4.986	4.973	5.005	VV	22549	236860	12.53%	0.564%
17	5.029	5.005	5.051	VV	56837	768747	40.66%	1.831%
18	5.069	5.051	5.117	VV	48147	599970	31.73%	1.429%
19	5.149	5.117	5.170	VV	37612	393015	20.79%	0.936%
20	5.183	5.170	5.204	VV	3374	46546	2.46%	0.111%
21	5.213	5.204	5.224	VV	1876	19186	1.01%	0.046%
22	5.245	5.224	5.253	VV	7353	76038	4.02%	0.181%
23	5.271	5.253	5.305	VV	53302	807226	42.70%	1.922%
24	5.324	5.305	5.337	VV	31402	339144	17.94%	0.808%
25	5.354	5.337	5.374	VV	111805	1109101	58.66%	2.641%
26	5.387	5.374	5.400	VV	11184	122090	6.46%	0.291%
27	5.411	5.400	5.430	VV	10199	103478	5.47%	0.246%
28	5.448	5.430	5.462	VV	2458	37013	1.96%	0.088%
29	5.484	5.462	5.498	VV	4322	68486	3.62%	0.163%
30	5.508	5.498	5.533	VV	3816	58645	3.10%	0.140%
31	5.560	5.533	5.574	VV	31270	370106	19.58%	0.881%
32	5.582	5.574	5.602	VV	17311	179330	9.49%	0.427%
33	5.625	5.602	5.635	VV	6695	90076	4.76%	0.215%
34	5.645	5.635	5.664	VV	6871	75508	3.99%	0.180%
35	5.700	5.664	5.718	VV	83323	962989	50.93%	2.293%
36	5.733	5.718	5.762	VV	51610	566261	29.95%	1.349%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

rteres

37	5.776	5.762	5.815	VV	4146	87678	4.64%	0.209%
38	5.832	5.815	5.844	VV	2399	33811	[illegible]	
39	5.894	5.844	5.916	VV	42893	615682	32	
40	5.927	5.916	5.946	VV	18202	198033	10	
41	5.965	5.946	5.974	VV	6908	86395	4	
42	5.994	5.974	6.009	VV	69086	762556	40	
43	6.018	6.009	6.035	VV	31122	330913	17.50%	0.788%
44	6.050	6.035	6.072	VV	44900	477544	25.26%	1.137%
45	6.091	6.072	6.110	VV	34223	376112	19.89%	0.896%
46	6.139	6.110	6.161	VV	12471	246547	13.04%	0.587%
47	6.181	6.161	6.203	VV	21351	283276	14.98%	0.675%
48	6.235	6.203	6.254	VV	22285	416796	22.05%	0.993%
49	6.272	6.254	6.290	VV	51592	572095	30.26%	1.363%
50	6.310	6.290	6.325	VV	26342	375191	19.84%	0.894%
51	6.333	6.325	6.351	VV	12163	128537	6.80%	0.306%
52	6.375	6.351	6.395	VV	19386	293709	15.53%	0.700%
53	6.417	6.395	6.434	VV	26166	435867	23.05%	1.038%
54	6.438	6.434	6.453	VV	19114	187403	9.91%	0.446%
55	6.459	6.453	6.466	VV	11715	86068	4.55%	0.205%
56	6.474	6.466	6.487	VV	12387	135789	7.18%	0.323%
57	6.502	6.487	6.517	VV	21583	255192	13.50%	0.608%
58	6.545	6.517	6.576	VV	23401	521213	27.57%	1.241%
59	6.588	6.576	6.619	VV	8437	170862	9.04%	0.407%
60	6.649	6.619	6.668	VV	19022	329552	17.43%	0.785%
61	6.675	6.668	6.694	VV	11213	129164	6.83%	0.308%
62	6.731	6.694	6.780	VV	34055	598633	31.66%	1.426%
63	6.817	6.780	6.831	VV	12611	235114	12.44%	0.560%
64	6.847	6.831	6.866	VV	16245	248467	13.14%	0.592%
65	6.883	6.866	6.909	VV	25459	354781	18.77%	0.845%
66	6.933	6.909	6.948	VV	16711	256792	13.58%	0.612%
67	6.958	6.948	6.971	VV	9570	109342	5.78%	0.260%
68	6.983	6.971	6.996	VV	7805	100625	5.32%	0.240%
69	7.015	6.996	7.035	VV	27248	321076	16.98%	0.765%
70	7.055	7.035	7.068	VV	12392	178547	9.44%	0.425%
71	7.077	7.068	7.105	VV	9895	181864	9.62%	0.433%
72	7.137	7.105	7.166	VV	32983	536676	28.39%	1.278%
73	7.174	7.166	7.191	VV	6885	88407	4.68%	0.211%
74	7.211	7.191	7.228	VV	10244	173353	9.17%	0.413%
75	7.262	7.228	7.284	VV	19024	423729	22.41%	1.009%
76	7.304	7.284	7.334	VV	28158	456006	24.12%	1.086%
77	7.364	7.334	7.393	VV	100028	1317283	69.67%	3.137%
78	7.409	7.393	7.431	VV	15801	233659	12.36%	0.556%
79	7.451	7.431	7.479	VV	24989	420472	22.24%	1.001%
80	7.502	7.479	7.535	VV	84241	1048596	55.46%	2.497%
81	7.551	7.535	7.565	VV	7020	112060	5.93%	0.267%
82	7.576	7.565	7.592	VV	6703	95895	5.07%	0.228%
83	7.605	7.592	7.622	VV	5791	96826	5.12%	0.231%
84	7.655	7.622	7.662	VV	16281	233172	12.33%	0.555%
85	7.676	7.662	7.704	VV	28097	399705	21.14%	0.952%
86	7.730	7.704	7.742	VV	11197	216024	11.43%	0.514%
87	7.758	7.742	7.789	VV	11398	242517	12.83%	0.578%
88	7.802	7.789	7.809	VV	6727	78037	4.13%	0.186%
89	7.817	7.809	7.829	VV	6860	77766	4.11%	0.185%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

rteres

90	7.854	7.829	7.882	VV	17420	337550	17.85%	0.804%
91	7.903	7.882	7.924	VV	12217	212914	11	
92	7.940	7.924	7.957	VV	5277	93383	4	
93	7.989	7.957	8.031	VV	162115	1890650	100	
94	8.043	8.031	8.062	VV	8572	130501	6	
95	8.104	8.062	8.122	VV	10614	256792	13	
96	8.141	8.122	8.152	VV	11150	171843	9.09%	0.409%
97	8.160	8.152	8.185	VV	10204	169151	8.95%	0.403%
98	8.202	8.185	8.221	VV	11271	175076	9.26%	0.417%
99	8.258	8.221	8.293	VV	23474	551049	29.15%	1.312%
100	8.308	8.293	8.326	VV	14804	204602	10.82%	0.487%
101	8.358	8.326	8.364	VV	31911	357220	18.89%	0.851%
102	8.374	8.364	8.447	VV	39181	651899	34.48%	1.553%
103	8.478	8.447	8.493	VV	52321	651786	34.47%	1.552%
104	8.506	8.493	8.526	VV	36894	430278	22.76%	1.025%
105	8.552	8.526	8.577	VV	15168	323845	17.13%	0.771%
106	8.596	8.577	8.614	VV	9777	176579	9.34%	0.421%
107	8.643	8.614	8.696	VV	19042	546176	28.89%	1.301%
108	8.716	8.696	8.734	VV	8356	154351	8.16%	0.368%
109	8.754	8.734	8.766	VV	11352	159230	8.42%	0.379%
110	8.776	8.766	8.791	VV	8651	109876	5.81%	0.262%
111	8.803	8.791	8.820	VV	6892	95946	5.07%	0.229%
112	8.862	8.820	8.899	VV	102721	1240352	65.60%	2.954%
113	8.916	8.899	8.940	VV	6152	134254	7.10%	0.320%
114	8.977	8.940	8.993	VV	8747	215294	11.39%	0.513%
115	9.010	8.993	9.035	VV	10048	197843	10.46%	0.471%
116	9.095	9.035	9.116	VV	13940	414420	21.92%	0.987%
117	9.126	9.116	9.136	VV	5814	63314	3.35%	0.151%
118	9.150	9.136	9.182	VV	6848	148822	7.87%	0.354%
119	9.203	9.182	9.223	VV	14234	219373	11.60%	0.522%
120	9.238	9.223	9.259	VV	7798	128930	6.82%	0.307%
121	9.283	9.259	9.304	VV	14187	223489	11.82%	0.532%
122	9.329	9.304	9.343	VV	8779	147638	7.81%	0.352%
123	9.374	9.343	9.394	VV	15637	273996	14.49%	0.653%
124	9.414	9.394	9.452	VV	15677	269068	14.23%	0.641%
125	9.470	9.452	9.492	VV	3932	80598	4.26%	0.192%
126	9.531	9.492	9.547	VV	11837	205818	10.89%	0.490%
127	9.561	9.547	9.598	VV	10329	166720	8.82%	0.397%
128	9.611	9.598	9.626	VV	3233	48483	2.56%	0.115%
129	9.667	9.626	9.695	VV	11255	227410	12.03%	0.542%
130	9.712	9.695	9.729	VV	4160	70312	3.72%	0.167%
131	9.752	9.729	9.767	VV	6075	101623	5.38%	0.242%
132	9.774	9.767	9.797	VV	4703	70216	3.71%	0.167%
133	9.829	9.797	9.867	VV	8434	214660	11.35%	0.511%
134	9.874	9.867	9.879	VV	3018	21027	1.11%	0.050%
135	9.900	9.879	9.913	VV	3872	69915	3.70%	0.167%
136	9.931	9.913	9.943	VV	5308	79131	4.19%	0.188%
137	9.954	9.943	9.974	VV	5461	76179	4.03%	0.181%
138	9.996	9.974	10.009	VV	2849	53757	2.84%	0.128%
139	10.030	10.009	10.054	VV	6579	102002	5.40%	0.243%
140	10.074	10.054	10.097	VV	3855	76181	4.03%	0.181%
141	10.124	10.097	10.142	VV	3572	76963	4.07%	0.183%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

				rteres			
142	10.164	10.142	10.217	VV	4835	146035	7.72% 0.348%
143	10.232	10.217	10.251	VV	2101	37231	
144	10.269	10.251	10.304	VV	2302	53473	
145	10.336	10.304	10.386	VV	2991	82724	
146	10.390	10.386	10.418	VV	1108	16930	
147	10.439	10.418	10.454	VV	1246	20622	
148	10.465	10.454	10.470	VV	890	8484	0.45% 0.020%
149	10.494	10.470	10.524	VV	3289	56324	2.98% 0.134%
150	10.551	10.524	10.577	VV	3051	57645	3.05% 0.137%
151	10.604	10.577	10.615	VV	2875	44817	2.37% 0.107%
152	10.631	10.615	10.656	VV	3666	58331	3.09% 0.139%
153	10.674	10.656	10.719	VV	3413	64205	3.40% 0.153%
154	10.750	10.719	10.759	VV	2302	34318	1.82% 0.082%
155	10.765	10.759	10.789	VV	2062	27748	1.47% 0.066%
156	10.812	10.789	10.838	VV	1791	39165	2.07% 0.093%
157	10.850	10.838	10.864	VV	1241	17041	0.90% 0.041%
158	10.883	10.864	10.887	VV	1464	16864	0.89% 0.040%
159	10.894	10.887	10.899	VV	1494	10359	0.55% 0.025%
160	10.919	10.899	10.937	VV	1829	29990	1.59% 0.071%
161	10.972	10.937	11.012	VV	2474	60786	3.22% 0.145%
162	11.030	11.012	11.072	VV	964	21639	1.14% 0.052%
163	11.115	11.072	11.132	VV	654	16322	0.86% 0.039%
164	11.153	11.132	11.207	VV	2543	40910	2.16% 0.097%
165	11.231	11.207	11.268	VV	1073	20601	1.09% 0.049%
166	11.291	11.268	11.312	VV	402	6964	0.37% 0.017%
167	11.333	11.312	11.355	VV	432	7873	0.42% 0.019%
168	11.370	11.355	11.389	VV	435	5502	0.29% 0.013%
169	11.411	11.389	11.417	PV	238	2454	0.13% 0.006%
170	11.464	11.417	11.484	VV	966	17872	0.95% 0.043%
171	11.514	11.501	11.525	BV	187	1359	0.07% 0.003%
172	11.547	11.525	11.592	PV	471	5671	0.30% 0.014%
173	11.605	11.592	11.617	PV	338	3057	0.16% 0.007%
174	11.633	11.617	11.662	VV	395	8045	0.43% 0.019%
175	11.679	11.662	11.722	VV	814	16389	0.87% 0.039%
176	11.751	11.722	11.779	PV	493	6721	0.36% 0.016%
177	11.807	11.779	11.831	PV	810	12495	0.66% 0.030%
178	11.845	11.831	11.873	VV	298	4209	0.22% 0.010%
179	11.923	11.873	11.949	VV	81905	899323	47.57% 2.142%
180	11.956	11.949	11.972	VV	1950	20344	1.08% 0.048%
181	11.988	11.972	12.028	VV	1986	26961	1.43% 0.064%
182	12.057	12.028	12.077	VV	503	8935	0.47% 0.021%
183	12.105	12.077	12.122	VV	1133	16061	0.85% 0.038%
184	12.138	12.122	12.189	VV	1015	15544	0.82% 0.037%
185	12.209	12.189	12.226	VV	304	3522	0.19% 0.008%
186	12.260	12.226	12.283	VV	722	15176	0.80% 0.036%
187	12.297	12.283	12.306	VV	508	5878	0.31% 0.014%
188	12.326	12.306	12.349	VV	1428	18866	1.00% 0.045%
189	12.360	12.349	12.385	VV	317	3855	0.20% 0.009%
190	12.399	12.385	12.412	VV	230	2702	0.14% 0.006%
191	12.427	12.412	12.446	VV	289	3850	0.20% 0.009%
192	12.459	12.446	12.468	VV	237	2760	0.15% 0.007%
193	12.492	12.468	12.506	VV	509	7856	0.42% 0.019%
194	12.522	12.506	12.559	VV	1027	17404	0.92% 0.041%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

					rteres			
195	12.577	12.559	12.591	VV	407	6155	0.33%	0.015%
196	12.604	12.591	12.623	VV	263	3781		
197	12.651	12.623	12.670	VV	372	7728		
198	12.677	12.670	12.679	VV	303	1345		
199	12.701	12.679	12.721	VV	580	9071		
200	12.749	12.721	12.757	VV	968	10940		
201	12.770	12.757	12.804	VV	1130	18087	0.96%	0.043%
202	12.825	12.804	12.834	VV	300	3912	0.21%	0.009%
203	12.857	12.834	12.879	VV	1568	22046	1.17%	0.053%
204	12.895	12.879	12.903	VV	714	8147	0.43%	0.019%
205	12.918	12.903	12.954	VV	909	14357	0.76%	0.034%
206	12.973	12.954	13.021	VV	1141	18709	0.99%	0.045%
207	13.034	13.027	13.059	VV	185	1620	0.09%	0.004%
208	13.103	13.059	13.123	VV	189	3257	0.17%	0.008%
209	13.137	13.123	13.149	PV	182	1217	0.06%	0.003%
210	13.156	13.149	13.166	VV	103	1259	0.07%	0.003%
211	13.191	13.166	13.245	VV	371	8307	0.44%	0.020%
212	13.272	13.245	13.320	PV	931	15251	0.81%	0.036%
213	13.360	13.320	13.391	VV	19010	235010	12.43%	0.560%
214	13.410	13.391	13.438	VV	544	9987	0.53%	0.024%
215	13.445	13.438	13.497	VV	350	6825	0.36%	0.016%
216	13.557	13.497	13.564	VV	540	12773	0.68%	0.030%
217	13.580	13.564	13.652	VV	770	20368	1.08%	0.049%
218	13.671	13.652	13.689	VV	373	5955	0.31%	0.014%
219	13.701	13.689	13.759	VV	380	10955	0.58%	0.026%
220	13.776	13.759	13.809	VV	238	6031	0.32%	0.014%
221	13.817	13.809	13.842	VV	204	3411	0.18%	0.008%
222	13.863	13.842	13.891	VV	316	5901	0.31%	0.014%
223	13.934	13.891	13.950	VV	342	7300	0.39%	0.017%
224	13.974	13.950	13.994	VV	337	6345	0.34%	0.015%
225	14.010	13.994	14.027	VV	242	4594	0.24%	0.011%
226	14.062	14.027	14.088	VV	694	12029	0.64%	0.029%
227	14.116	14.088	14.126	VV	502	7185	0.38%	0.017%
228	14.138	14.126	14.162	VV	460	6210	0.33%	0.015%
229	14.178	14.162	14.196	VV	274	3701	0.20%	0.009%
230	14.212	14.196	14.235	VV	182	3222	0.17%	0.008%
231	14.244	14.235	14.296	VV	147	3089	0.16%	0.007%
232	14.347	14.296	14.384	PV	272	7767	0.41%	0.018%
233	14.402	14.384	14.424	VV	148	2193	0.12%	0.005%
234	14.450	14.424	14.460	VV	229	2549	0.13%	0.006%
235	14.479	14.460	14.489	VV	210	2831	0.15%	0.007%
236	14.507	14.489	14.522	VV	218	3486	0.18%	0.008%
237	14.547	14.522	14.568	VV	399	7939	0.42%	0.019%
238	14.589	14.568	14.612	VV	286	5375	0.28%	0.013%
239	14.628	14.612	14.651	VV	187	3315	0.18%	0.008%
240	14.680	14.651	14.708	VV	391	8215	0.43%	0.020%
241	14.735	14.708	14.756	VV	470	8419	0.45%	0.020%
242	14.771	14.756	14.794	VV	228	4186	0.22%	0.010%
243	14.805	14.794	14.822	VV	291	3843	0.20%	0.009%
244	14.838	14.822	14.879	VV	365	7392	0.39%	0.018%
245	14.913	14.879	14.947	VV	357	8699	0.46%	0.021%
246	14.957	14.947	14.964	VV	137	1482	0.08%	0.004%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-13DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

					rteres			
247	14.992	14.964	15.042	VV	496	11251	0.60%	0.027%
248	15.054	15.042	15.084	VV	231	3474		
249	15.109	15.084	15.122	VV	185	1938		
250	15.150	15.122	15.171	VV	951	14893		
251	15.191	15.171	15.242	VV	1220	29377		
252	15.261	15.242	15.284	VV	466	6731		
253	15.320	15.284	15.359	VV	296	7560	0.40%	0.018%
254	15.386	15.359	15.427	VV	274	7048	0.37%	0.017%
255	15.456	15.442	15.485	VV	205	3084	0.16%	0.007%
256	15.513	15.485	15.554	VV	241	4829	0.26%	0.012%
257	15.598	15.554	15.677	VV	935	30590	1.62%	0.073%
258	15.685	15.677	15.713	VV	253	4693	0.25%	0.011%
259	15.752	15.713	15.782	VV	516	12722	0.67%	0.030%
260	15.790	15.782	15.807	VV	176	2020	0.11%	0.005%
261	15.827	15.807	15.846	VV	252	3969	0.21%	0.009%
262	15.854	15.846	15.909	VV	178	4366	0.23%	0.010%
263	15.964	15.909	15.989	PV	195	6457	0.34%	0.015%
264	16.006	15.989	16.056	VV	224	6092	0.32%	0.015%
265	16.060	16.056	16.082	VV	200	2380	0.13%	0.006%
266	16.089	16.082	16.137	VV	196	4543	0.24%	0.011%
267	16.163	16.137	16.174	VV	219	3908	0.21%	0.009%
268	16.197	16.174	16.217	VV	229	5198	0.27%	0.012%
269	16.238	16.217	16.275	VV	546	9714	0.51%	0.023%
270	16.299	16.275	16.316	VV	194	2878	0.15%	0.007%
271	16.334	16.316	16.347	PV	71	1376	0.07%	0.003%
272	16.414	16.347	16.469	VV	194	6571	0.35%	0.016%
273	16.531	16.469	16.548	VV	134	2213	0.12%	0.005%
274	16.611	16.572	16.654	VV	153	3885	0.21%	0.009%
275	16.707	16.654	16.719	PV	1024	16425	0.87%	0.039%
276	16.732	16.719	16.777	VV	1204	19959	1.06%	0.048%
277	16.804	16.777	16.832	VV	591	9103	0.48%	0.022%
278	16.849	16.832	16.867	VV	197	3049	0.16%	0.007%
279	16.900	16.867	16.928	VV	190	4422	0.23%	0.011%
280	16.992	16.949	17.000	VV	88	1318	0.07%	0.003%
281	17.027	17.000	17.052	VV	151	2992	0.16%	0.007%
282	17.085	17.052	17.115	VV	1310	19350	1.02%	0.046%
283	17.152	17.115	17.164	VV	363	5856	0.31%	0.014%
284	17.187	17.164	17.217	VV	1041	16319	0.86%	0.039%
285	17.237	17.217	17.289	VV	563	9630	0.51%	0.023%
286	17.304	17.289	17.337	VV	160	2387	0.13%	0.006%
287	17.395	17.377	17.412	VV	129	1308	0.07%	0.003%
288	17.482	17.412	17.497	PV	154	4790	0.25%	0.011%
289	17.520	17.497	17.557	VV	247	5492	0.29%	0.013%

Sum of corrected areas: 41988456

Aromatic EPH 111524.M Mon Nov 18 01:33:53 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-14			SDG No.:	P4839
Lab Sample ID:	P4839-06			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.9
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/19/24 9:57	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	164		20	8.63	22.7	mg/kg	FE051342.D
Aliphatic C12-C16	Aliphatic C12-C16	164		20	5.45	15.1	mg/kg	FE051342.D
Aliphatic C16-C21	Aliphatic C16-C21	12.1		1	0.34	1.14	mg/kg	FE051267.D
Aliphatic C21-C28	Aliphatic C21-C28	0.91	U	1	0.91	1.51	mg/kg	FE051267.D
Aliphatic C28-C40	Aliphatic C28-C40	3.22		1	2.04	2.27	mg/kg	FE051267.D
Aromatic C10-C12	Aromatic C10-C12	94.2		10	3.41	7.57	mg/kg	FF015071.D
Aromatic C12-C16	Aromatic C12-C16	75.3		10	3.86	11.4	mg/kg	FF015071.D
Aromatic C16-C21	Aromatic C16-C21	22.6		1	1.09	1.89	mg/kg	FF015059.D
Aromatic C21-C36	Aromatic C21-C36	2.27	U	1	2.27	3.03	mg/kg	FF015059.D
Total AliphaticEPH	Total AliphaticEPH	343			17.4	42.7	mg/kg	
Total AromaticEPH	Total AromaticEPH	192			10.6	23.9	mg/kg	
Total EPH	Total EPH	535			28.0	66.6	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-14			SDG No.:	P4839
Lab Sample ID:	P4839-06			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.9
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/19/24 9:57	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	164		20	8.63	22.7	mg/kg	FE051342.D
Aliphatic C12-C16	Aliphatic C12-C16	164		20	5.45	15.1	mg/kg	FE051342.D
Aliphatic C16-C21	Aliphatic C16-C21	12.1		1	0.34	1.14	mg/kg	FE051267.D
Aliphatic C21-C28	Aliphatic C21-C28	0.91	U	1	0.91	1.51	mg/kg	FE051267.D
Aliphatic C28-C40	Aliphatic C28-C40	3.22		1	2.04	2.27	mg/kg	FE051267.D
Aromatic C10-C12	Aromatic C10-C12	94.2		10	3.41	7.57	mg/kg	FF015071.D
Aromatic C12-C16	Aromatic C12-C16	75.3		10	3.86	11.4	mg/kg	FF015071.D
Aromatic C16-C21	Aromatic C16-C21	22.6		1	1.09	1.89	mg/kg	FF015059.D
Aromatic C21-C36	Aromatic C21-C36	2.27	U	1	2.27	3.03	mg/kg	FF015059.D
Total AliphaticEPH	Total AliphaticEPH	343			17.4	42.7	mg/kg	
Total AromaticEPH	Total AromaticEPH	192			10.6	23.9	mg/kg	
Total EPH	Total EPH	535			28.0	66.6	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-14		SDG No.:	P4839	
Lab Sample ID:	P4839-06		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.9	
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
FE051267.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	148	E	0.43	1.14	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	150	E	0.27	0.76	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	12.1		0.34	1.14	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.91	U	0.91	1.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.22		2.04	2.27	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.9		40 - 140	60%	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:	P4839-06	Acq On:	15 Nov 2024 17:18
Client Sample ID:	EX-9-TPH-14	Operator:	YP\AJ
Data file:	FE051267.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	274651503	1960	300	ug/ml
Aliphatic C12-C16	6.754	10.185	279225327	1990	200	ug/ml
Aliphatic C16-C21	10.186	13.544	22037486	159.961	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1215512	9.074	400	ug/ml
Aliphatic C28-C40	17.201	22.043	5472642	42.506	600	ug/ml
Aliphatic EPH	3.134	22.043	582602470	4160		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.279	13.279	3398106	29.93		ug/ml
Aliphatic C9-C28	3.134	17.200	577129828	4120	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051267.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 17:18
Operator : YP\AJ
Sample : P4839-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14

Integration File: autoint1.e
Quant Time: Nov 16 08:19:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.279	3398106	29.931 ug/ml
Spiked Amount 50.000		Recovery = 59.86%	
Target Compounds			

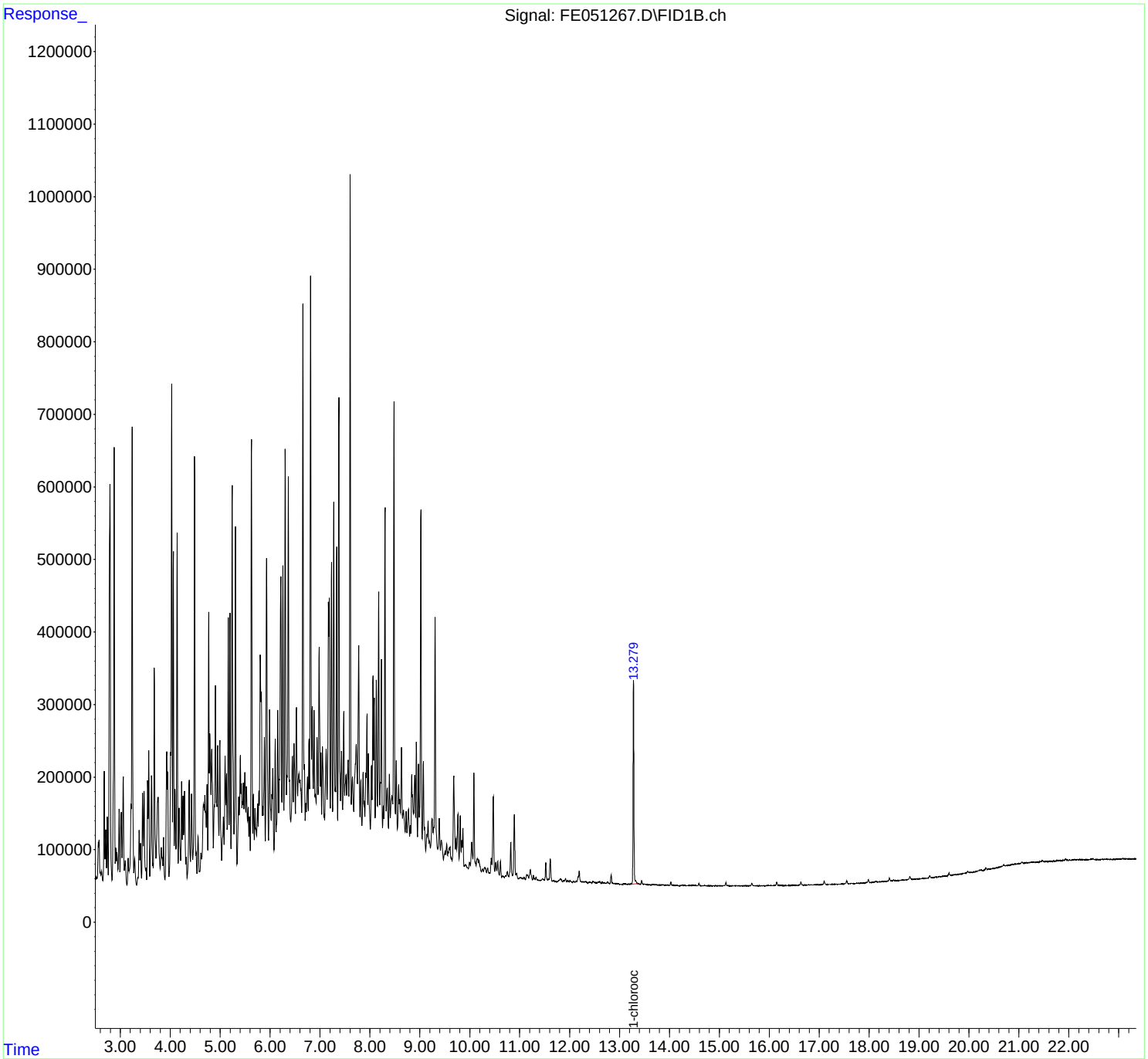
(f)=RT Delta > 1/2 Window (m)=manual int.

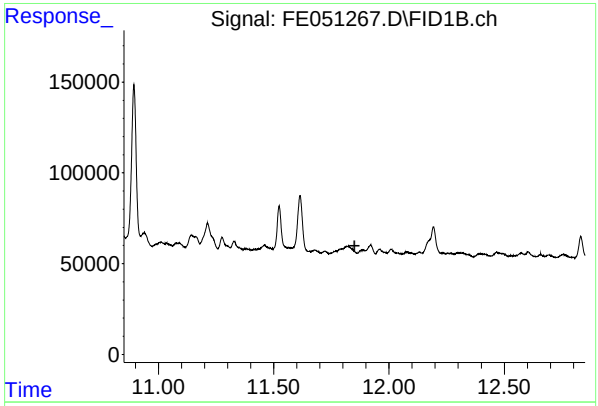
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051267.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 17:18
Operator : YP\AJ
Sample : P4839-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14

Integration File: autoint1.e
Quant Time: Nov 16 08:19:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

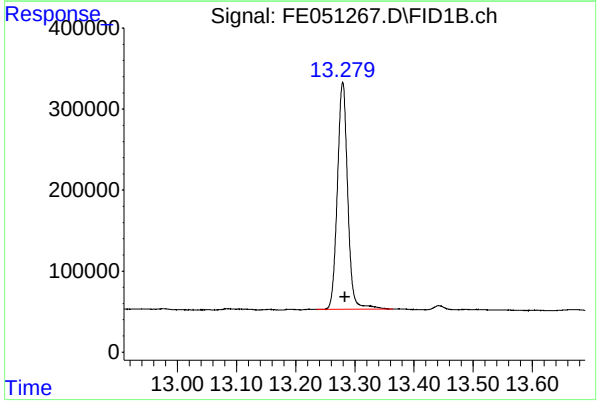




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14



#12 1-chlorooctadecane (SURR)

R.T.: 13.279 min
Delta R.T.: -0.004 min
Response: 3398106
Conc: 29.93 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051267.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 17:18
Sample : P4839-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.237	3.214	3.271	BV	556625	5407245	54.24%	1.402%
2	3.287	3.271	3.328	PV	23941	274010	2.75%	0.071%
3	3.377	3.328	3.392	PV	74478	1019346	10.22%	0.264%
4	3.404	3.392	3.424	VV	56638	671677	6.74%	0.174%
5	3.446	3.424	3.460	VV	125292	1442307	14.47%	0.374%
6	3.476	3.460	3.508	VV	127484	1780982	17.86%	0.462%
7	3.513	3.508	3.527	VV	21498	175219	1.76%	0.045%
8	3.547	3.527	3.557	VV	139245	1407541	14.12%	0.365%
9	3.569	3.557	3.591	VV	181915	2017602	20.24%	0.523%
10	3.626	3.591	3.661	VV	146738	2488690	24.96%	0.645%
11	3.680	3.661	3.715	VV	293249	3748185	37.60%	0.972%
12	3.757	3.715	3.797	VV	115331	3321081	33.31%	0.861%
13	3.821	3.797	3.850	VV	45170	984897	9.88%	0.255%
14	3.865	3.850	3.893	VV	58412	653157	6.55%	0.169%
15	3.929	3.893	3.975	PV	174427	3829408	38.41%	0.993%
16	4.028	4.001	4.046	BV	581073	5674308	56.92%	1.471%
17	4.062	4.046	4.081	PV	384587	3485618	34.96%	0.904%
18	4.096	4.081	4.115	PV	81720	797047	7.99%	0.207%
19	4.138	4.115	4.160	VV	446888	4484996	44.99%	1.163%
20	4.178	4.160	4.208	PV	76400	1023499	10.27%	0.265%
21	4.228	4.208	4.243	VV	119122	1302589	13.07%	0.338%
22	4.256	4.243	4.269	VV	102598	1195382	11.99%	0.310%
23	4.285	4.269	4.312	VV	113119	1769568	17.75%	0.459%
24	4.321	4.312	4.339	VV	26717	240116	2.41%	0.062%
25	4.379	4.339	4.405	PV	133732	1972191	19.78%	0.511%
26	4.426	4.405	4.451	VV	114261	1761937	17.67%	0.457%
27	4.487	4.451	4.535	VV	577067	6943904	69.65%	1.800%
28	4.557	4.535	4.583	VV	53093	705507	7.08%	0.183%
29	4.616	4.583	4.629	VV	29065	404987	4.06%	0.105%
30	4.665	4.629	4.684	VV	94560	2213602	22.20%	0.574%
31	4.694	4.684	4.721	VV	107112	1934103	19.40%	0.501%
32	4.737	4.721	4.752	VV	121272	1514720	15.19%	0.393%
33	4.771	4.752	4.784	VV	357255	3829319	38.41%	0.993%
34	4.794	4.784	4.815	VV	188847	2836930	28.46%	0.736%
35	4.831	4.815	4.864	VV	167375	3379592	33.90%	0.876%
36	4.905	4.864	4.934	VV	254131	4953911	49.69%	1.284%

37	4.949	4.934	4.975	VV	170377	2561967	25.70%	0.664%
38	4.993	4.975	5.031	VV	176668	2655819	26.64%	0.689%
39	5.065	5.031	5.080	VV	69636	1271482	12.75%	0.330%
40	5.099	5.080	5.114	VV	152674	2026089	20.32%	0.525%
41	5.127	5.114	5.142	VV	127875	1553821	15.59%	0.403%
42	5.163	5.142	5.180	VV	341521	3902209	39.14%	1.012%
43	5.197	5.180	5.217	VV	349743	3703158	37.14%	0.960%
44	5.240	5.217	5.278	VV	524999	7315602	73.38%	1.897%
45	5.306	5.278	5.339	VV	462760	5667417	56.85%	1.469%
46	5.372	5.339	5.383	PV	91057	1360830	13.65%	0.353%
47	5.404	5.383	5.450	VV	147414	3952871	39.65%	1.025%
48	5.464	5.450	5.477	VV	108455	1470780	14.75%	0.381%
49	5.495	5.477	5.512	VV	122134	2120462	21.27%	0.550%
50	5.526	5.512	5.548	VV	102207	1709051	17.14%	0.443%
51	5.561	5.548	5.576	VV	71970	943623	9.47%	0.245%
52	5.588	5.576	5.603	VV	58682	659840	6.62%	0.171%
53	5.627	5.603	5.653	VV	571977	7263342	72.86%	1.883%
54	5.667	5.653	5.684	VV	87032	1028785	10.32%	0.267%
55	5.700	5.684	5.731	VV	66273	1166791	11.70%	0.303%
56	5.750	5.731	5.762	VV	72193	974377	9.77%	0.253%
57	5.776	5.762	5.783	VV	89143	900873	9.04%	0.234%
58	5.804	5.783	5.861	VV	274490	7145594	71.67%	1.853%
59	5.887	5.861	5.905	VV	161105	2379528	23.87%	0.617%
60	5.930	5.905	5.969	VV	406081	6453846	64.74%	1.673%
61	5.991	5.969	6.022	VV	195324	2943793	29.53%	0.763%
62	6.055	6.022	6.079	VV	112992	2117663	21.24%	0.549%
63	6.103	6.079	6.122	PV	150015	1583855	15.89%	0.411%
64	6.154	6.122	6.174	VV	186798	2676320	26.84%	0.694%
65	6.216	6.174	6.237	VV	361508	6775698	67.96%	1.757%
66	6.257	6.237	6.277	VV	378362	4322090	43.35%	1.121%
67	6.303	6.277	6.329	VV	538117	6810588	68.31%	1.766%
68	6.366	6.329	6.414	VV	496950	7153551	71.75%	1.855%
69	6.447	6.414	6.465	VV	101047	1683646	16.89%	0.437%
70	6.481	6.465	6.508	VV	115090	1872931	18.79%	0.486%
71	6.527	6.508	6.553	VV	161598	2383897	23.91%	0.618%
72	6.577	6.553	6.594	VV	67862	1452616	14.57%	0.377%
73	6.601	6.594	6.633	VV	57212	952576	9.55%	0.247%
74	6.658	6.633	6.701	VBA	708771	8176375	82.01%	2.120%
75	6.750	6.701	6.764	BV	55562	848304	8.51%	0.220%
76	6.779	6.764	6.790	VV	107344	1003408	10.06%	0.260%
77	6.812	6.790	6.833	VV	744749	8689967	87.17%	2.253%
78	6.844	6.833	6.866	VV	153649	1953606	19.60%	0.507%
79	6.882	6.866	6.922	VV	148732	2060059	20.66%	0.534%
80	6.942	6.922	6.961	VV	113275	1582321	15.87%	0.410%
81	6.983	6.961	7.009	VV	237498	3546036	35.57%	0.919%
82	7.019	7.009	7.034	VV	94424	886755	8.89%	0.230%
83	7.050	7.034	7.093	VV	102389	1665482	16.71%	0.432%
84	7.124	7.093	7.143	VV	101741	1678804	16.84%	0.435%
85	7.186	7.143	7.207	VV	308479	6658944	66.79%	1.727%
86	7.230	7.207	7.253	VV	360718	4116964	41.30%	1.067%
87	7.276	7.253	7.314	VV	441280	5725799	57.43%	1.485%
88	7.334	7.314	7.354	VV	385435	4005544	40.18%	1.039%
89	7.378	7.354	7.412	VV	589030	7122623	71.44%	1.847%

90	7.432	7.412	7.454	VV	104850	1593474	15.98%	0.413%
91	7.476	7.454	7.494	VV	159480	2104661	21.11%	0.546%
92	7.521	7.494	7.535	VV	74933	1506586	15.11%	0.391%
93	7.562	7.535	7.578	VV	95918	1813159	18.19%	0.470%
94	7.605	7.578	7.628	VV	902952	9969547	100.00%	2.585%
95	7.650	7.628	7.676	VV	75225	1540781	15.45%	0.400%
96	7.726	7.676	7.750	VV	121737	3712446	37.24%	0.963%
97	7.776	7.750	7.802	VV	256465	4166502	41.79%	1.080%
98	7.818	7.802	7.840	VV	73434	961310	9.64%	0.249%
99	7.863	7.840	7.899	VV	86841	1646207	16.51%	0.427%
100	7.941	7.899	7.957	VV	167598	3080310	30.90%	0.799%
101	7.970	7.957	8.010	VV	113856	1848614	18.54%	0.479%
102	8.031	8.010	8.043	VV	99048	1156515	11.60%	0.300%
103	8.062	8.043	8.075	VV	223392	2839641	28.48%	0.736%
104	8.086	8.075	8.106	VV	192271	2117184	21.24%	0.549%
105	8.130	8.106	8.150	VV	218923	2902996	29.12%	0.753%
106	8.176	8.150	8.197	VV	337230	4363011	43.76%	1.131%
107	8.232	8.197	8.254	VV	248703	3644223	36.55%	0.945%
108	8.270	8.254	8.280	VV	49154	559726	5.61%	0.145%
109	8.302	8.280	8.327	VV	454253	5383852	54.00%	1.396%
110	8.347	8.327	8.372	VV	74864	1409459	14.14%	0.365%
111	8.391	8.372	8.410	VV	94463	1281598	12.86%	0.332%
112	8.441	8.410	8.457	VV	66460	1613721	16.19%	0.418%
113	8.483	8.457	8.511	VV	611634	7396122	74.19%	1.918%
114	8.529	8.511	8.552	VV	116700	1670833	16.76%	0.433%
115	8.577	8.552	8.610	VV	84673	1966029	19.72%	0.510%
116	8.634	8.610	8.655	VV	137791	2203879	22.11%	0.571%
117	8.673	8.655	8.707	VV	52357	1252536	12.56%	0.325%
118	8.727	8.707	8.744	VV	50360	758446	7.61%	0.197%
119	8.773	8.744	8.797	VV	55622	1199709	12.03%	0.311%
120	8.810	8.797	8.820	VV	34272	374326	3.75%	0.097%
121	8.838	8.820	8.878	VV	104573	2306261	23.13%	0.598%
122	8.900	8.878	8.916	VV	104694	1847538	18.53%	0.479%
123	8.932	8.916	8.954	VV	151615	1938139	19.44%	0.503%
124	8.974	8.954	8.990	VV	121348	1540439	15.45%	0.399%
125	9.021	8.990	9.047	VV	474650	6246473	62.66%	1.620%
126	9.072	9.047	9.119	VV	128000	2098901	21.05%	0.544%
127	9.166	9.119	9.186	VV	47514	1080218	10.84%	0.280%
128	9.194	9.186	9.213	VV	20958	291298	2.92%	0.076%
129	9.245	9.213	9.266	VV	52586	1129870	11.33%	0.293%
130	9.307	9.266	9.355	VV	332047	4815806	48.31%	1.249%
131	9.390	9.355	9.412	VV	56359	1001910	10.05%	0.260%
132	9.432	9.412	9.474	VV	27401	635888	6.38%	0.165%
133	9.507	9.474	9.520	VV	13610	249450	2.50%	0.065%
134	9.540	9.520	9.556	VV	24721	370389	3.72%	0.096%
135	9.605	9.556	9.647	VV	21638	716680	7.19%	0.186%
136	9.680	9.647	9.712	VV	120990	2129824	21.36%	0.552%
137	9.725	9.712	9.738	VV	35572	445816	4.47%	0.116%
138	9.764	9.738	9.787	VV	71033	1182402	11.86%	0.307%
139	9.810	9.787	9.829	VV	69233	911610	9.14%	0.236%
140	9.841	9.829	9.851	VV	36332	397256	3.98%	0.103%
141	9.864	9.851	9.889	VV	53432	604681	6.07%	0.157%

142	9.918	9.889	9.974	VV	4702	121193	1.22%	0.031%
143	9.996	9.974	10.013	PV	9453	132445	1.33%	0.034%
144	10.039	10.013	10.063	VV	37729	655657	6.58%	0.170%
145	10.085	10.063	10.128	VV	133991	1711786	17.17%	0.444%
146	10.153	10.128	10.176	VV	16622	394956	3.96%	0.102%
147	10.187	10.176	10.232	VV	15095	271441	2.72%	0.070%
148	10.257	10.232	10.276	VV	4714	73714	0.74%	0.019%
149	10.297	10.276	10.339	VV	7311	175749	1.76%	0.046%
150	10.360	10.339	10.386	VV	7780	111940	1.12%	0.029%
151	10.399	10.386	10.406	VV	1467	16289	0.16%	0.004%
152	10.431	10.406	10.443	VV	22300	280738	2.82%	0.073%
153	10.472	10.443	10.501	VV	108164	1655648	16.61%	0.429%
154	10.522	10.501	10.542	VV	17867	282228	2.83%	0.073%
155	10.561	10.542	10.592	VV	20383	320600	3.22%	0.083%
156	10.616	10.592	10.643	VV	21209	263838	2.65%	0.068%
157	10.659	10.643	10.690	PV	1554	23401	0.23%	0.006%
158	10.718	10.690	10.728	PV	2805	37860	0.38%	0.010%
159	10.753	10.728	10.780	VV	8410	140834	1.41%	0.037%
160	10.823	10.780	10.858	VV	49356	731812	7.34%	0.190%
161	10.894	10.858	10.924	VV	88325	1285308	12.89%	0.333%
162	10.938	10.924	10.973	VV	7006	120287	1.21%	0.031%
163	11.010	10.973	11.061	PV	2376	80420	0.81%	0.021%
164	11.083	11.061	11.115	VV	2212	51049	0.51%	0.013%
165	11.143	11.115	11.180	VV	6867	177978	1.79%	0.046%
166	11.213	11.180	11.257	VV	13973	312084	3.13%	0.081%
167	11.276	11.257	11.311	VV	6540	95650	0.96%	0.025%
168	11.328	11.311	11.366	VV	4741	69112	0.69%	0.018%
169	11.378	11.366	11.405	VV	955	13714	0.14%	0.004%
170	11.419	11.405	11.426	VV	720	7302	0.07%	0.002%
171	11.459	11.426	11.494	VV	3175	76206	0.76%	0.020%
172	11.524	11.494	11.581	VV	25145	374680	3.76%	0.097%
173	11.614	11.581	11.661	VV	31457	486642	4.88%	0.126%
174	11.678	11.661	11.704	VV	1753	28352	0.28%	0.007%
175	11.722	11.704	11.741	VV	1302	14958	0.15%	0.004%
176	11.821	11.741	11.861	PV	4372	164935	1.65%	0.043%
177	11.886	11.861	11.897	VV	2485	40604	0.41%	0.011%
178	11.920	11.897	11.941	VV	5386	84482	0.85%	0.022%
179	11.959	11.941	11.991	VV	3149	55631	0.56%	0.014%
180	12.009	11.991	12.058	VV	3258	66556	0.67%	0.017%
181	12.076	12.058	12.111	VV	1829	41900	0.42%	0.011%
182	12.132	12.111	12.143	VV	2119	29221	0.29%	0.008%
183	12.193	12.143	12.284	VV	16131	408912	4.10%	0.106%
184	12.299	12.284	12.365	VV	2077	72508	0.73%	0.019%
185	12.394	12.365	12.440	PV	1711	54680	0.55%	0.014%
186	12.468	12.440	12.517	VV	2808	84135	0.84%	0.022%
187	12.529	12.517	12.543	VV	1147	16252	0.16%	0.004%
188	12.573	12.543	12.588	VV	2758	50132	0.50%	0.013%
189	12.603	12.588	12.636	VV	3426	58282	0.58%	0.015%
190	12.657	12.636	12.675	VV	2280	32803	0.33%	0.009%
191	12.693	12.675	12.727	VV	1903	38739	0.39%	0.010%
192	12.755	12.727	12.802	VV	2332	64265	0.64%	0.017%
193	12.832	12.802	12.880	VV	12458	183816	1.84%	0.048%
194	12.893	12.880	12.915	VV	1520	23476	0.24%	0.006%

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195	12.926	12.915	12.931	VV	980	8175	0.08%	0.002%
196	12.938	12.931	12.959	VV	980	14636	0.15%	0.004%
197	12.976	12.959	13.030	VV	1344	22405	0.22%	0.006%
198	13.051	13.030	13.063	PV	282	3003	0.03%	0.001%
199	13.086	13.063	13.138	VV	1460	39277	0.39%	0.010%
200	13.155	13.138	13.174	VV	880	10787	0.11%	0.003%
201	13.192	13.174	13.209	VV	1067	13708	0.14%	0.004%
202	13.225	13.209	13.236	VV	1139	14625	0.15%	0.004%
203	13.279	13.236	13.418	VV	280728	3541742	35.53%	0.918%
204	13.442	13.418	13.474	VV	5945	88096	0.88%	0.023%
205	13.488	13.474	13.501	VV	1348	18101	0.18%	0.005%
206	13.510	13.501	13.590	VV	1231	39692	0.40%	0.010%
207	13.605	13.590	13.631	VV	599	8064	0.08%	0.002%
208	13.669	13.631	13.693	VV	1432	31074	0.31%	0.008%
209	13.715	13.693	13.774	VV	1116	31884	0.32%	0.008%
210	13.789	13.774	13.807	VV	496	7416	0.07%	0.002%
211	13.822	13.807	13.843	VV	785	11590	0.12%	0.003%
212	13.872	13.843	13.910	VV	1035	25884	0.26%	0.007%
213	13.937	13.910	13.958	VV	856	17071	0.17%	0.004%
214	13.976	13.958	14.000	VV	821	12974	0.13%	0.003%
215	14.028	14.000	14.068	VV	5038	68892	0.69%	0.018%
216	14.082	14.068	14.104	VV	551	9566	0.10%	0.002%
217	14.113	14.104	14.144	VV	476	6978	0.07%	0.002%
218	14.159	14.144	14.210	VV	320	6633	0.07%	0.002%
219	14.259	14.210	14.286	PV	970	22192	0.22%	0.006%
220	14.294	14.286	14.307	VV	467	4550	0.05%	0.001%
221	14.324	14.307	14.366	VV	416	9400	0.09%	0.002%
222	14.391	14.366	14.422	VV	387	10002	0.10%	0.003%
223	14.469	14.422	14.502	VV	995	24550	0.25%	0.006%
224	14.515	14.502	14.563	VV	414	12512	0.13%	0.003%
225	14.589	14.563	14.631	VV	3354	46560	0.47%	0.012%
226	14.654	14.631	14.684	VV	392	7952	0.08%	0.002%
227	14.713	14.684	14.768	VV	507	14778	0.15%	0.004%
228	14.789	14.768	14.828	VV	205	5497	0.06%	0.001%
229	14.837	14.828	14.856	VV	400	4239	0.04%	0.001%
230	14.875	14.856	14.919	VV	402	9416	0.09%	0.002%
231	14.938	14.919	14.957	VV	371	4730	0.05%	0.001%
232	14.980	14.957	15.043	VV	466	8930	0.09%	0.002%
233	15.086	15.043	15.104	VV	805	12561	0.13%	0.003%
234	15.129	15.104	15.237	VV	4609	75484	0.76%	0.020%
235	15.267	15.237	15.283	PV	217	2712	0.03%	0.001%
236	15.322	15.283	15.360	VV	243	5887	0.06%	0.002%
237	15.378	15.360	15.421	VV	231	3502	0.04%	0.001%
238	15.467	15.421	15.486	VV	149	3527	0.04%	0.001%
239	15.506	15.486	15.534	PV	177	3094	0.03%	0.001%
240	15.569	15.534	15.584	VV	170	4331	0.04%	0.001%
241	15.647	15.584	15.757	VV	3732	73513	0.74%	0.019%
242	15.783	15.757	15.800	VV	228	3139	0.03%	0.001%
243	15.815	15.800	15.854	PV	199	4212	0.04%	0.001%
244	15.870	15.854	15.917	VV	183	3830	0.04%	0.001%
245	15.925	15.917	15.932	VV	72	456	0.00%	0.000%
246	15.966	15.932	16.005	VV	411	11909	0.12%	0.003%

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247	16.026	16.005	16.057	VV	247	4934	0.05%	0.001%
248	16.111	16.057	16.123	PV	676	12073	0.12%	0.003%
249	16.148	16.123	16.262	VV	4821	83204	0.83%	0.022%
250	16.285	16.262	16.308	VV	130	2151	0.02%	0.001%
251	16.350	16.308	16.378	VV	297	7218	0.07%	0.002%
252	16.387	16.378	16.396	VV	111	1019	0.01%	0.000%
253	16.401	16.396	16.410	VV	105	574	0.01%	0.000%
254	16.463	16.410	16.484	PV	342	7440	0.07%	0.002%
255	16.508	16.484	16.519	VV	234	3581	0.04%	0.001%
256	16.530	16.519	16.561	VV	155	1942	0.02%	0.001%
257	16.632	16.561	16.704	PV	4573	78563	0.79%	0.020%
258	16.718	16.704	16.729	VV	204	2157	0.02%	0.001%
259	16.795	16.729	16.818	VV	377	10521	0.11%	0.003%
260	16.829	16.818	16.877	VV	290	6863	0.07%	0.002%
261	16.886	16.877	16.894	VV	112	1104	0.01%	0.000%
262	16.933	16.894	16.958	VV	353	7164	0.07%	0.002%
263	16.978	16.958	17.008	VV	326	5987	0.06%	0.002%
264	17.098	17.008	17.161	PV	5114	87982	0.88%	0.023%
265	17.213	17.161	17.234	VV	187	5027	0.05%	0.001%
266	17.268	17.234	17.300	VV	123	3638	0.04%	0.001%
267	17.335	17.300	17.355	PV	333	5172	0.05%	0.001%
268	17.387	17.355	17.408	VV	175	2427	0.02%	0.001%
269	17.479	17.408	17.486	PV	215	5057	0.05%	0.001%
270	17.548	17.486	17.593	VV	4120	71447	0.72%	0.019%
271	17.654	17.593	17.691	VV	350	12094	0.12%	0.003%
272	17.703	17.691	17.720	VV	140	901	0.01%	0.000%
273	17.755	17.720	17.762	PV	114	2242	0.02%	0.001%
274	17.826	17.762	17.849	VV	248	4811	0.05%	0.001%
275	17.878	17.849	17.904	PV	275	3547	0.04%	0.001%
276	17.983	17.904	18.018	PV	4366	76166	0.76%	0.020%
277	18.025	18.018	18.041	VV	220	2348	0.02%	0.001%
278	18.125	18.041	18.184	VV	923	31736	0.32%	0.008%
279	18.261	18.184	18.283	VV	555	14998	0.15%	0.004%
280	18.331	18.283	18.350	VV	410	12952	0.13%	0.003%
281	18.406	18.350	18.440	VV	4247	72107	0.72%	0.019%
282	18.488	18.440	18.521	VV	1350	30251	0.30%	0.008%
283	18.533	18.521	18.586	VV	338	7336	0.07%	0.002%
284	18.672	18.586	18.683	PV	333	7909	0.08%	0.002%
285	18.815	18.683	18.883	VV	4188	96713	0.97%	0.025%
286	18.914	18.883	18.941	VV	401	7374	0.07%	0.002%
287	18.959	18.941	18.988	VV	386	6307	0.06%	0.002%
288	19.077	18.988	19.094	VV	399	7518	0.08%	0.002%
289	19.115	19.094	19.156	VV	289	6464	0.06%	0.002%
290	19.213	19.156	19.282	PV	3342	59730	0.60%	0.015%
291	19.425	19.282	19.437	PV	299	19461	0.20%	0.005%
292	19.466	19.437	19.477	VV	399	5733	0.06%	0.001%
293	19.598	19.477	19.659	VV	3509	74736	0.75%	0.019%
294	19.723	19.659	19.741	VV	460	14780	0.15%	0.004%
295	19.747	19.741	19.761	VV	231	1780	0.02%	0.000%
296	19.973	19.761	20.012	VV	2947	112813	1.13%	0.029%
297	20.023	20.012	20.034	VV	876	10863	0.11%	0.003%
298	20.238	20.034	20.280	VV	2395	210190	2.11%	0.054%
299	20.340	20.280	20.367	VV	4303	131714	1.32%	0.034%

rteres

300	20.408	20.367	20.423	VV	2416	77821	0.78%	0.020%
301	20.486	20.423	20.500	VV	2559	109607	1.10%	0.028%
302	20.694	20.500	20.724	VV	5821	462937	4.64%	0.120%
303	20.889	20.724	20.898	VV	4789	455104	4.56%	0.118%
304	21.059	20.898	21.094	VV	6492	578967	5.81%	0.150%
305	21.306	21.094	21.334	VV	4080	622688	6.25%	0.161%
306	21.470	21.334	21.518	VV	4506	403049	4.04%	0.105%
307	21.559	21.518	21.584	VV	2920	116601	1.17%	0.030%
308	21.658	21.584	21.674	VV	2375	132876	1.33%	0.034%
309	21.858	21.674	21.867	VV	1842	241319	2.42%	0.063%
310	21.939	21.867	22.001	VV	2592	133639	1.34%	0.035%
311	22.113	22.001	22.124	VV	568	46095	0.46%	0.012%
312	22.190	22.124	22.201	VBA	187	-47819	-0.48%	-0.012%

Sum of corrected areas: 385670439

Aliphatic EPH 110724.M Sat Nov 16 11:25:53 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-14			SDG No.:	P4839
Lab Sample ID:	P4839-06			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	87.9
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
FF015059.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	80.2	E	0.34	0.76	mg/kg
Aromatic C12-C16	Aromatic C12-C16	67.2	E	0.39	1.14	mg/kg
Aromatic C16-C21	Aromatic C16-C21	22.6		1.09	1.89	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.27	U	2.27	3.03	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	60.8		40 - 140	122%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	58.8		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.9		40 - 140	50%	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:	P4839-06	Acq On:	15 Nov 2024 14:14
Client Sample ID:	EX-9-TPH-14	Operator:	YP\AJ
Data file:	FF015059.D	Misc:	
Instrument:	FID_F	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	144833497	1060	200	ug/ml
Aromatic C12-C16	6.372	9.062	119890922	887.935	300	ug/ml
Aromatic C16-C21	9.063	13.374	38149594	298.292	500	ug/ml
Aromatic C21-C36	13.375	18.817	2540139	20.843	800	ug/ml
Aromatic EPH	4.507	18.817	305414152	2270		ug/ml
2-Bromonaphthalene (SURR)	7.994	7.994	7426168	60.81		ug/ml
2-Flurobiphenyl (SURR)	8.868	8.868	4801094	58.81		ug/ml
ortho-Terphenyl (SURR)	11.925	11.925	3336957	24.88		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015059.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 14:14
Operator : YP\AJ
Sample : P4839-06
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 15:46:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.994	7426168	60.812 ug/ml
Spiked Amount 50.000		Recovery = 121.62%	
6) S 2-Flurobiphenyl (SURR)	8.868	4801094	58.807 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 117.61%	
11) S ortho-Terphenyl (SURR)	11.925	3336957	24.876 ug/mlm
Spiked Amount 50.000		Recovery = 49.75%	
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015059.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 14:14
Operator : YP\AJ
Sample : P4839-06
Misc :
ALS Vial : 66 Sample Multiplier: 1

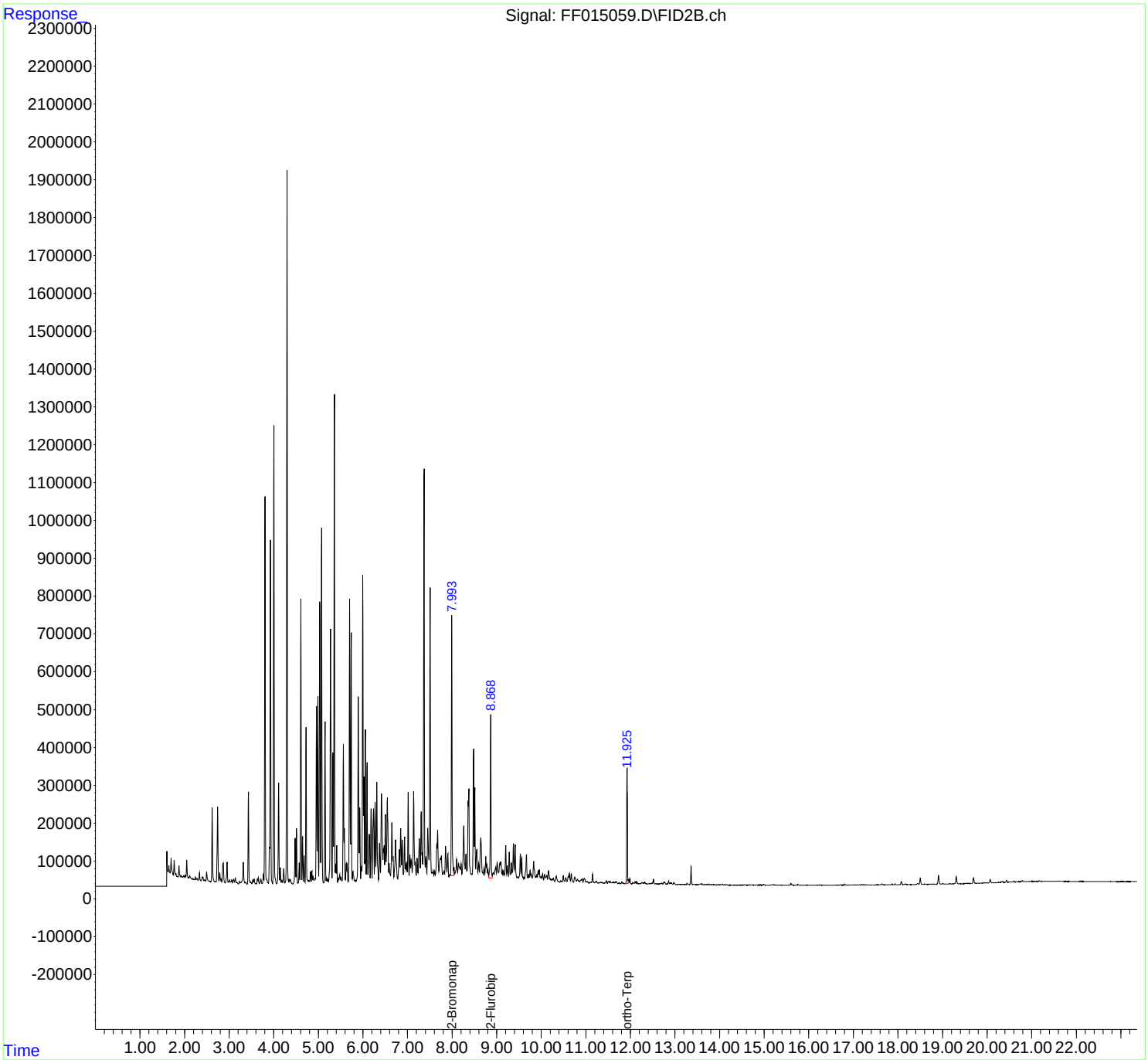
Integration File: autoint1.e
Quant Time: Nov 15 15:46:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

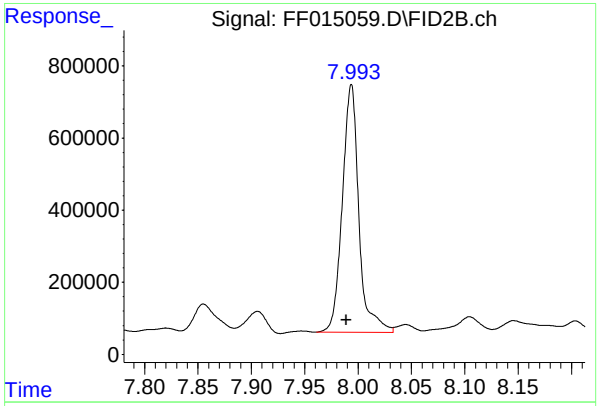
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024





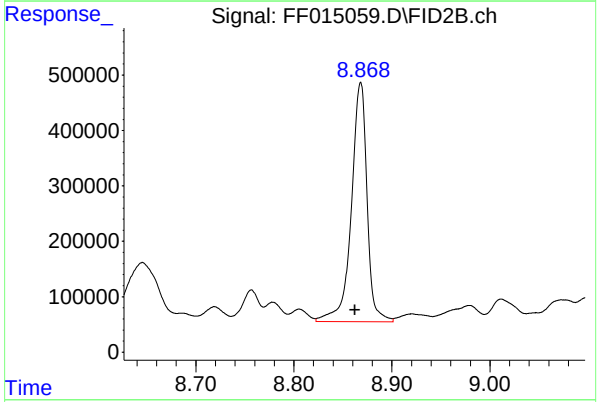
#4 2-Bromonaphthalene (SURR)

R.T.: 7.994 min
Delta R.T.: 0.005 mi
Response: 7426168
Conc: 60.81 ug/m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14

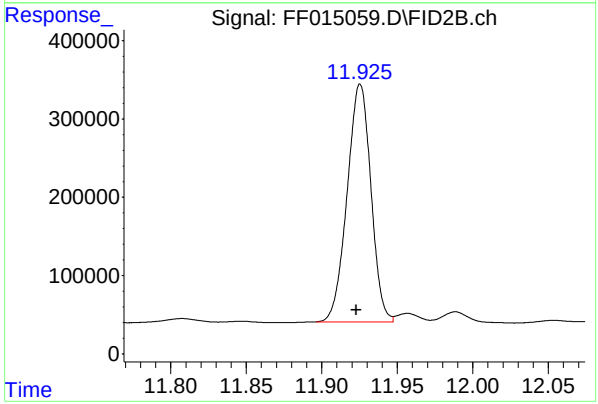
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.868 min
Delta R.T.: 0.005 min
Response: 4801094
Conc: 58.81 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.002 min
Response: 3336957
Conc: 24.88 ug/ml m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11162
Data File : FF015059.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 14:14
Sample : P4839-06
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.479	4.436	4.495	PV	121624	1366060	10.33%	0.421%
2	4.511	4.495	4.539	VV	147746	1521372	11.50%	0.469%
3	4.573	4.539	4.587	VV	56068	608098	4.60%	0.187%
4	4.609	4.587	4.630	VV	752753	7318828	55.34%	2.256%
5	4.647	4.630	4.665	VV	126792	1278439	9.67%	0.394%
6	4.681	4.665	4.702	VV	75534	785536	5.94%	0.242%
7	4.725	4.702	4.772	VV	414780	4196653	31.73%	1.294%
8	4.784	4.772	4.805	VV	10027	170779	1.29%	0.053%
9	4.825	4.805	4.840	VV	33655	393530	2.98%	0.121%
10	4.855	4.840	4.869	VV	34804	368323	2.78%	0.114%
11	4.882	4.869	4.902	VV	20346	297268	2.25%	0.092%
12	4.918	4.902	4.934	VV	14987	254663	1.93%	0.079%
13	4.959	4.934	4.974	VV	469889	4899210	37.04%	1.510%
14	4.989	4.974	5.009	VV	496265	5103875	38.59%	1.573%
15	5.033	5.009	5.054	VV	745703	9566980	72.33%	2.949%
16	5.073	5.054	5.120	VV	939837	9943418	75.18%	3.065%
17	5.151	5.120	5.173	VV	428829	4251143	32.14%	1.311%
18	5.186	5.173	5.202	VV	16462	208501	1.58%	0.064%
19	5.215	5.202	5.229	VV	13255	166342	1.26%	0.051%
20	5.274	5.229	5.309	VV	674707	10274504	77.68%	3.167%
21	5.328	5.309	5.340	VV	347524	3487254	26.37%	1.075%
22	5.360	5.340	5.379	VV	1296727	12776224	96.60%	3.939%
23	5.389	5.379	5.400	VV	54236	531060	4.02%	0.164%
24	5.413	5.400	5.433	VV	102640	1018886	7.70%	0.314%
25	5.449	5.433	5.462	VV	16198	213855	1.62%	0.066%
26	5.479	5.462	5.498	VV	24888	391940	2.96%	0.121%
27	5.509	5.498	5.533	VV	18127	270534	2.05%	0.083%
28	5.562	5.533	5.577	VV	370628	4018017	30.38%	1.239%
29	5.584	5.577	5.606	VV	147506	1435494	10.85%	0.443%
30	5.627	5.606	5.637	VV	55348	647255	4.89%	0.200%
31	5.647	5.637	5.669	VV	56153	602138	4.55%	0.186%
32	5.703	5.669	5.720	VV	752359	8195515	61.96%	2.527%
33	5.737	5.720	5.762	VV	664526	6690711	50.59%	2.063%
34	5.777	5.762	5.823	VV	33745	692707	5.24%	0.214%
35	5.835	5.823	5.848	VV	11313	142252	1.08%	0.044%
36	5.897	5.848	5.917	VV	495795	5787901	43.76%	1.784%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

rteres

37	5.931	5.917	5.950	VV	202591	2201510	16.65%	0.679%
38	5.967	5.950	5.976	VV	48229	553260	4	
39	5.998	5.976	6.013	VV	817547	8661115	65	
40	6.022	6.013	6.038	VV	283887	2875764	21	
41	6.055	6.038	6.074	VV	408371	4064292	30	
42	6.094	6.074	6.112	VV	321920	3253514	24	
43	6.144	6.112	6.164	VV	132913	2389714	18.07%	0.737%
44	6.184	6.164	6.206	VV	199555	2611270	19.74%	0.805%
45	6.239	6.206	6.258	VV	200001	3671249	27.76%	1.132%
46	6.274	6.258	6.291	VV	217056	2330291	17.62%	0.718%
47	6.312	6.291	6.352	VV	270104	3712313	28.07%	1.144%
48	6.373	6.352	6.395	VV	109211	1578539	11.93%	0.487%
49	6.417	6.395	6.451	VV	239940	4654986	35.20%	1.435%
50	6.462	6.451	6.469	VV	94921	905566	6.85%	0.279%
51	6.477	6.469	6.489	VV	102539	1051563	7.95%	0.324%
52	6.504	6.489	6.520	VV	184989	2075142	15.69%	0.640%
53	6.547	6.520	6.578	VV	229254	4374004	33.07%	1.348%
54	6.589	6.578	6.619	VV	56134	892601	6.75%	0.275%
55	6.650	6.619	6.669	VV	163546	2533617	19.16%	0.781%
56	6.677	6.669	6.696	VV	73891	812273	6.14%	0.250%
57	6.731	6.696	6.780	VV	118128	2674260	20.22%	0.824%
58	6.819	6.780	6.832	VV	92118	1622437	12.27%	0.500%
59	6.848	6.832	6.868	VV	147622	2095666	15.84%	0.646%
60	6.883	6.868	6.907	VV	117931	1674994	12.66%	0.516%
61	6.935	6.907	6.951	VV	125550	1783051	13.48%	0.550%
62	6.960	6.951	6.972	VV	51919	573765	4.34%	0.177%
63	6.985	6.972	6.998	VV	56821	705106	5.33%	0.217%
64	7.016	6.998	7.036	VV	243706	2676673	20.24%	0.825%
65	7.055	7.036	7.069	VV	77924	1073594	8.12%	0.331%
66	7.083	7.069	7.106	VV	64788	1150823	8.70%	0.355%
67	7.140	7.106	7.168	VV	246297	3922164	29.65%	1.209%
68	7.176	7.168	7.196	VV	59736	739931	5.59%	0.228%
69	7.217	7.196	7.235	VV	69836	1100756	8.32%	0.339%
70	7.267	7.235	7.288	VV	121217	2389596	18.07%	0.737%
71	7.307	7.288	7.341	VV	192140	3292461	24.89%	1.015%
72	7.373	7.341	7.399	VV	1098072	13226182	100.00%	4.077%
73	7.416	7.399	7.435	VV	73284	1170652	8.85%	0.361%
74	7.455	7.435	7.483	VV	149202	2658967	20.10%	0.820%
75	7.509	7.483	7.541	VV	784702	8892373	67.23%	2.741%
76	7.554	7.541	7.565	VV	31883	453480	3.43%	0.140%
77	7.578	7.565	7.593	VV	37957	533730	4.04%	0.165%
78	7.610	7.593	7.625	VV	35685	571761	4.32%	0.176%
79	7.658	7.625	7.665	VV	108205	1455318	11.00%	0.449%
80	7.677	7.665	7.705	VV	143901	2126847	16.08%	0.656%
81	7.734	7.705	7.742	VV	68848	1272617	9.62%	0.392%
82	7.760	7.742	7.791	VV	75972	1558046	11.78%	0.480%
83	7.820	7.791	7.834	VV	35004	802451	6.07%	0.247%
84	7.855	7.834	7.884	VV	101678	1881712	14.23%	0.580%
85	7.906	7.884	7.928	VV	81737	1338823	10.12%	0.413%
86	7.948	7.928	7.960	VV	27088	478993	3.62%	0.148%
87	7.994	7.960	8.032	VV	712444	8448215	63.87%	2.604%
88	8.045	8.032	8.061	VV	45114	654750	4.95%	0.202%
89	8.105	8.061	8.126	VV	66641	1652814	12.50%	0.510%

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90	8.146	8.126	8.189	VV	55793	1691935	12.79%	0.522%
91	8.204	8.189	8.222	VV	55087	844192	6	
92	8.262	8.222	8.297	VV	155420	3389509	25	
93	8.312	8.297	8.331	VV	81367	1150772	8	
94	8.362	8.331	8.368	VV	221805	2493789	18	
95	8.377	8.368	8.437	VV	252819	3589612	27	
96	8.443	8.437	8.447	VV	26186	157801	1.19%	0.049%
97	8.483	8.447	8.498	VV	356932	4474645	33.83%	1.379%
98	8.510	8.498	8.529	VV	256149	2732878	20.66%	0.843%
99	8.554	8.529	8.580	VV	92658	1912803	14.46%	0.590%
100	8.597	8.580	8.616	VV	56795	969801	7.33%	0.299%
101	8.646	8.616	8.700	VV	124394	3380643	25.56%	1.042%
102	8.719	8.700	8.736	VV	44515	755957	5.72%	0.233%
103	8.757	8.736	8.770	VV	74920	1029094	7.78%	0.317%
104	8.778	8.770	8.794	VV	52480	652292	4.93%	0.201%
105	8.806	8.794	8.822	VV	40022	551932	4.17%	0.170%
106	8.868	8.822	8.901	VV	448377	5629768	42.57%	1.736%
107	8.920	8.901	8.942	VV	31371	695244	5.26%	0.214%
108	8.979	8.942	8.995	VV	46827	1182557	8.94%	0.365%
109	9.012	8.995	9.037	VV	58071	1152382	8.71%	0.355%
110	9.074	9.037	9.087	VV	56580	1353457	10.23%	0.417%
111	9.097	9.087	9.116	VV	60213	824646	6.23%	0.254%
112	9.127	9.116	9.140	VV	36642	461977	3.49%	0.142%
113	9.154	9.140	9.174	VV	37232	634885	4.80%	0.196%
114	9.205	9.174	9.225	VV	103664	1644333	12.43%	0.507%
115	9.239	9.225	9.260	VV	50472	805073	6.09%	0.248%
116	9.284	9.260	9.307	VV	86773	1371733	10.37%	0.423%
117	9.331	9.307	9.345	VV	57009	913887	6.91%	0.282%
118	9.377	9.345	9.396	VV	108322	1810058	13.69%	0.558%
119	9.416	9.396	9.456	VV	105896	1766147	13.35%	0.544%
120	9.473	9.456	9.492	VV	21531	428171	3.24%	0.132%
121	9.532	9.492	9.549	VV	81857	1369042	10.35%	0.422%
122	9.564	9.549	9.600	VV	71510	1104733	8.35%	0.341%
123	9.612	9.600	9.629	VV	20146	316151	2.39%	0.097%
124	9.668	9.629	9.696	VV	78755	1542678	11.66%	0.476%
125	9.713	9.696	9.729	VV	27184	453966	3.43%	0.140%
126	9.751	9.729	9.767	VV	38759	638779	4.83%	0.197%
127	9.778	9.767	9.800	VV	28871	461049	3.49%	0.142%
128	9.831	9.800	9.867	VV	61921	1461473	11.05%	0.451%
129	9.872	9.867	9.884	VV	21616	202819	1.53%	0.063%
130	9.902	9.884	9.915	VV	27546	441487	3.34%	0.136%
131	9.932	9.915	9.944	VV	37375	519721	3.93%	0.160%
132	9.957	9.944	9.977	VV	38965	572723	4.33%	0.177%
133	9.995	9.977	10.014	VV	22324	444366	3.36%	0.137%
134	10.031	10.014	10.056	VV	29436	524403	3.96%	0.162%
135	10.075	10.056	10.097	VV	27552	531364	4.02%	0.164%
136	10.125	10.097	10.143	VV	24962	569399	4.31%	0.176%
137	10.164	10.143	10.193	VV	36245	767819	5.81%	0.237%
138	10.197	10.193	10.220	VV	16326	236819	1.79%	0.073%
139	10.235	10.220	10.252	VV	15171	263963	2.00%	0.081%
140	10.272	10.252	10.304	VV	17628	413170	3.12%	0.127%
141	10.337	10.304	10.384	VV	22686	662649	5.01%	0.204%

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142	10.394	10.384	10.418	VV	9279	168795	1.28%	0.052%
143	10.438	10.418	10.454	VV	11193	195381	1	
144	10.464	10.454	10.472	VV	8978	92938	0	
145	10.496	10.472	10.530	VV	24471	485512	3	
146	10.551	10.530	10.578	VV	19138	389891	2	
147	10.605	10.578	10.616	VV	22805	361297	2	
148	10.631	10.616	10.657	VV	30169	514709	3.89%	0.159%
149	10.674	10.657	10.720	VV	29501	575156	4.35%	0.177%
150	10.750	10.720	10.791	VV	20117	578328	4.37%	0.178%
151	10.812	10.791	10.839	VV	14978	343722	2.60%	0.106%
152	10.848	10.839	10.863	VV	10953	145776	1.10%	0.045%
153	10.918	10.863	10.937	VV	16371	539746	4.08%	0.166%
154	10.969	10.937	10.997	VV	17274	464223	3.51%	0.143%
155	11.007	10.997	11.013	VV	8128	76293	0.58%	0.024%
156	11.031	11.013	11.048	VV	9392	177271	1.34%	0.055%
157	11.052	11.048	11.070	VV	7337	84269	0.64%	0.026%
158	11.118	11.070	11.130	VV	7745	232099	1.75%	0.072%
159	11.154	11.130	11.204	VV	28309	509194	3.85%	0.157%
160	11.231	11.204	11.272	VV	10475	294497	2.23%	0.091%
161	11.295	11.272	11.307	VV	5831	111328	0.84%	0.034%
162	11.330	11.307	11.355	VV	7225	179543	1.36%	0.055%
163	11.371	11.355	11.391	VV	6852	126358	0.96%	0.039%
164	11.463	11.391	11.484	VV	11244	361551	2.73%	0.111%
165	11.507	11.484	11.530	VV	8993	199776	1.51%	0.062%
166	11.548	11.530	11.574	VV	9883	194481	1.47%	0.060%
167	11.582	11.574	11.589	VV	5938	53955	0.41%	0.017%
168	11.604	11.589	11.617	VV	7727	109280	0.83%	0.034%
169	11.632	11.617	11.660	VV	7742	178608	1.35%	0.055%
170	11.678	11.660	11.719	VV	9303	235120	1.78%	0.072%
171	11.749	11.719	11.773	VV	6462	149533	1.13%	0.046%
172	11.808	11.773	11.832	VV	8558	195845	1.48%	0.060%
173	11.847	11.832	11.873	VV	5037	100695	0.76%	0.031%
174	11.925	11.873	11.948	VV	308046	3515194	26.58%	1.084%
175	11.957	11.948	11.972	VV	15202	170738	1.29%	0.053%
176	11.989	11.972	12.028	VV	17300	267259	2.02%	0.082%
177	12.054	12.028	12.079	VV	6158	143293	1.08%	0.044%
178	12.106	12.079	12.122	VV	9515	165714	1.25%	0.051%
179	12.138	12.122	12.190	VV	9977	222340	1.68%	0.069%
180	12.211	12.190	12.227	VV	4204	79690	0.60%	0.025%
181	12.258	12.227	12.284	VV	6706	185526	1.40%	0.057%
182	12.295	12.284	12.307	VV	5719	69760	0.53%	0.022%
183	12.325	12.307	12.347	VV	7905	132326	1.00%	0.041%
184	12.358	12.347	12.386	VV	4058	77900	0.59%	0.024%
185	12.400	12.386	12.413	VV	3487	53554	0.40%	0.017%
186	12.430	12.413	12.445	VV	4226	71842	0.54%	0.022%
187	12.458	12.445	12.472	VV	4672	63798	0.48%	0.020%
188	12.493	12.472	12.499	VV	5688	77082	0.58%	0.024%
189	12.517	12.499	12.552	VV	15037	235690	1.78%	0.073%
190	12.573	12.552	12.593	VV	4213	85604	0.65%	0.026%
191	12.607	12.593	12.620	VV	3224	46541	0.35%	0.014%
192	12.638	12.620	12.647	VV	3439	50651	0.38%	0.016%
193	12.653	12.647	12.666	VV	3299	35142	0.27%	0.011%
194	12.701	12.666	12.725	VV	5334	141483	1.07%	0.044%

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195	12.749	12.725	12.759	VV	8456	117525	0.89%	0.036%
196	12.767	12.759	12.793	VV	8021	120121		
197	12.824	12.793	12.836	VV	3861	81162		
198	12.857	12.836	12.877	VV	10616	162971		
199	12.893	12.877	12.906	VV	5970	86633		
200	12.918	12.906	12.954	VV	6455	116183		
201	12.974	12.954	13.044	VV	7378	173558	1.31%	0.054%
202	13.073	13.044	13.079	VV	1777	31601	0.24%	0.010%
203	13.098	13.079	13.117	VV	2441	43857	0.33%	0.014%
204	13.133	13.117	13.149	VV	2158	33159	0.25%	0.010%
205	13.164	13.149	13.179	VV	2123	33610	0.25%	0.010%
206	13.193	13.179	13.247	VV	2233	72931	0.55%	0.022%
207	13.270	13.247	13.294	VV	5197	79899	0.60%	0.025%
208	13.360	13.294	13.390	VV	49724	682341	5.16%	0.210%
209	13.410	13.390	13.435	VV	2742	58343	0.44%	0.018%
210	13.445	13.435	13.470	VV	2011	36036	0.27%	0.011%
211	13.476	13.470	13.501	VV	1493	21585	0.16%	0.007%
212	13.555	13.501	13.562	VV	2966	72653	0.55%	0.022%
213	13.579	13.562	13.591	VV	3661	55172	0.42%	0.017%
214	13.603	13.591	13.637	VV	3621	60913	0.46%	0.019%
215	13.643	13.637	13.650	VV	990	7427	0.06%	0.002%
216	13.670	13.650	13.684	VV	2512	35530	0.27%	0.011%
217	13.702	13.684	13.721	VV	2569	42614	0.32%	0.013%
218	13.751	13.721	13.804	VV	3307	94093	0.71%	0.029%
219	13.821	13.804	13.837	VV	1620	26830	0.20%	0.008%
220	13.859	13.837	13.897	VV	2495	51523	0.39%	0.016%
221	13.907	13.897	13.922	VV	879	11850	0.09%	0.004%
222	13.933	13.922	13.947	VV	943	11912	0.09%	0.004%
223	13.969	13.947	13.990	VV	1801	32110	0.24%	0.010%
224	14.009	13.990	14.022	VV	1593	23610	0.18%	0.007%
225	14.028	14.022	14.031	VV	1116	5830	0.04%	0.002%
226	14.063	14.031	14.088	VV	3204	61748	0.47%	0.019%
227	14.116	14.088	14.126	VV	1950	30466	0.23%	0.009%
228	14.136	14.126	14.160	VV	1943	26996	0.20%	0.008%
229	14.178	14.160	14.201	VV	1235	19125	0.14%	0.006%
230	14.205	14.201	14.240	VV	480	9718	0.07%	0.003%
231	14.244	14.240	14.261	VV	348	3534	0.03%	0.001%
232	14.267	14.261	14.277	VV	293	2389	0.02%	0.001%
233	14.333	14.296	14.371	PV	551	15629	0.12%	0.005%
234	14.373	14.371	14.392	VV	393	3379	0.03%	0.001%
235	14.405	14.392	14.420	VV	397	4999	0.04%	0.002%
236	14.446	14.420	14.464	VV	485	9973	0.08%	0.003%
237	14.478	14.464	14.497	VV	859	10619	0.08%	0.003%
238	14.502	14.497	14.504	VV	431	1471	0.01%	0.000%
239	14.510	14.504	14.516	VV	469	3248	0.02%	0.001%
240	14.550	14.516	14.570	VV	1567	31058	0.23%	0.010%
241	14.574	14.570	14.623	VV	915	21241	0.16%	0.007%
242	14.632	14.623	14.639	VV	407	3519	0.03%	0.001%
243	14.676	14.639	14.712	VV	1327	34675	0.26%	0.011%
244	14.730	14.712	14.754	VV	992	18071	0.14%	0.006%
245	14.776	14.754	14.786	VV	787	11644	0.09%	0.004%
246	14.803	14.786	14.821	VV	919	14941	0.11%	0.005%

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247	14.839	14.821	14.857	VV	962	14169	0.11%	0.004%
248	14.872	14.857	14.889	VV	497	7935		
249	14.914	14.889	14.950	VV	2159	36412		
250	14.992	14.950	15.049	VV	2869	57194		
251	15.059	15.049	15.095	VV	384	7032		
252	15.101	15.095	15.128	VV	294	4072		
253	15.151	15.128	15.159	VV	1007	12144	0.09%	0.004%
254	15.186	15.159	15.202	VV	1715	35156	0.27%	0.011%
255	15.217	15.202	15.243	VV	1791	27315	0.21%	0.008%
256	15.260	15.243	15.283	VV	1109	15816	0.12%	0.005%
257	15.317	15.283	15.368	VV	905	22783	0.17%	0.007%
258	15.386	15.368	15.424	VV	565	10601	0.08%	0.003%
259	15.429	15.424	15.444	VV	162	1615	0.01%	0.000%
260	15.453	15.444	15.484	VV	373	4665	0.04%	0.001%
261	15.515	15.484	15.545	VV	232	4628	0.03%	0.001%
262	15.596	15.545	15.694	PV	5181	112589	0.85%	0.035%
263	15.698	15.694	15.701	VV	314	1310	0.01%	0.000%
264	15.705	15.701	15.715	VV	319	2277	0.02%	0.001%
265	15.755	15.715	15.801	VV	2550	48006	0.36%	0.015%
266	15.824	15.801	15.845	VV	694	9853	0.07%	0.003%
267	15.860	15.845	15.890	VV	456	8641	0.07%	0.003%
268	15.899	15.890	15.908	VV	204	2196	0.02%	0.001%
269	15.921	15.908	15.927	VV	272	2629	0.02%	0.001%
270	15.952	15.927	15.996	VV	617	16622	0.13%	0.005%
271	15.998	15.996	16.016	VV	325	2952	0.02%	0.001%
272	16.021	16.016	16.025	VV	257	1143	0.01%	0.000%
273	16.057	16.025	16.086	VV	435	10611	0.08%	0.003%
274	16.104	16.086	16.127	VV	400	8214	0.06%	0.003%
275	16.140	16.127	16.171	VV	328	6126	0.05%	0.002%
276	16.199	16.171	16.214	VV	625	10054	0.08%	0.003%
277	16.238	16.214	16.274	VV	1485	23520	0.18%	0.007%
278	16.293	16.274	16.318	VV	484	8002	0.06%	0.002%
279	16.331	16.318	16.357	VV	160	2101	0.02%	0.001%
280	16.373	16.357	16.392	PV	108	1736	0.01%	0.001%
281	16.422	16.392	16.445	VV	320	5613	0.04%	0.002%
282	16.456	16.445	16.491	VV	184	2829	0.02%	0.001%
283	16.530	16.504	16.557	VV	159	2412	0.02%	0.001%
284	16.623	16.583	16.667	PV	612	13985	0.11%	0.004%
285	16.718	16.667	16.769	VV	1118	33033	0.25%	0.010%
286	16.802	16.769	16.829	VV	3088	43436	0.33%	0.013%
287	16.849	16.829	16.877	VV	412	8592	0.06%	0.003%
288	16.905	16.877	16.925	VV	242	5937	0.04%	0.002%
289	16.943	16.925	16.972	VV	264	5646	0.04%	0.002%
290	17.025	16.972	17.058	VV	630	15265	0.12%	0.005%
291	17.084	17.058	17.129	VV	958	18870	0.14%	0.006%
292	17.153	17.129	17.166	VV	844	12794	0.10%	0.004%
293	17.187	17.166	17.213	VV	2189	33404	0.25%	0.010%
294	17.237	17.213	17.319	VV	2082	41323	0.31%	0.013%
295	17.326	17.319	17.356	VV	231	2477	0.02%	0.001%
296	17.376	17.356	17.407	VV	212	3300	0.02%	0.001%
297	17.458	17.407	17.491	PV	235	7076	0.05%	0.002%
298	17.525	17.491	17.546	VV	620	11047	0.08%	0.003%
299	17.584	17.546	17.593	VV	416	9463	0.07%	0.003%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

rteres

300	17.638	17.593	17.686	VV	2908	55226	0.42%	0.017%
301	17.725	17.686	17.774	VV	435	12036		
302	17.822	17.774	17.831	VV	175	3765		
303	17.864	17.831	17.897	PV	2687	39360		
304	17.933	17.897	17.968	VV	2982	44440		
305	18.075	17.968	18.111	PV	8498	140872		
306	18.164	18.111	18.202	VV	2230	41956	0.32%	0.013%
307	18.255	18.202	18.284	VV	382	9562	0.07%	0.003%
308	18.309	18.284	18.327	PV	225	2184	0.02%	0.001%
309	18.351	18.327	18.376	PV	497	6591	0.05%	0.002%
310	18.399	18.376	18.412	VV	623	8023	0.06%	0.002%
311	18.443	18.412	18.469	VV	2654	60058	0.45%	0.019%
312	18.499	18.469	18.559	VV	16828	261065	1.97%	0.080%
313	18.596	18.559	18.677	VV	983	25507	0.19%	0.008%
314	18.707	18.677	18.727	PV	777	12054	0.09%	0.004%
315	18.763	18.727	18.788	VV	874	14345	0.11%	0.004%

Sum of corrected areas: 324373385

Aromatic EPH 111524.M Fri Nov 15 15:46:56 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-14		SDG No.:	P4839	
Lab Sample ID:	P4839-06		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.9	
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
FE051342.D	20	11/14/24	11/19/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	164		8.63	22.7	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	164		5.45	15.1	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	14.8	J	6.81	22.7	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	18.2	U	18.2	30.3	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	40.9	U	40.9	45.4	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	1.75		40 - 140	70%	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:	P4839-06DL	Acq On:	19 Nov 2024 09:57
Client Sample ID:	P4839-06DL	Operator:	YP\AJ
Data file:	FE051342.D	Misc:	
Instrument:	FID_E	ALS Vial:	6
Dilution Factor:	20	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.136	6.752	15211600	108.721	300	ug/ml
Aliphatic C12-C16	6.753	10.184	15300216	108.793	200	ug/ml
Aliphatic C16-C21	10.185	13.543	1342475	9.744	300	ug/ml
Aliphatic C21-C28	13.544	17.198	116373	0.869	400	ug/ml
Aliphatic C28-C40	17.199	22.041	0	0	600	ug/ml
Aliphatic EPH	3.136	22.041	31970664	228.127		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.277	13.277	198172	1.75		ug/ml
Aliphatic C9-C28	3.136	17.198	31970664	228.127	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051342.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 09:57
Operator : YP\AJ
Sample : P4839-06DL 20X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File: autoint1.e
Quant Time: Nov 20 02:35:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.277	198172	1.746 ug/mlm
Spiked Amount 50.000		Recovery =	3.49%
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051342.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 09:57
Operator : YP\AJ
Sample : P4839-06DL 20X
Misc :
ALS Vial : 6 Sample Multiplier: 1

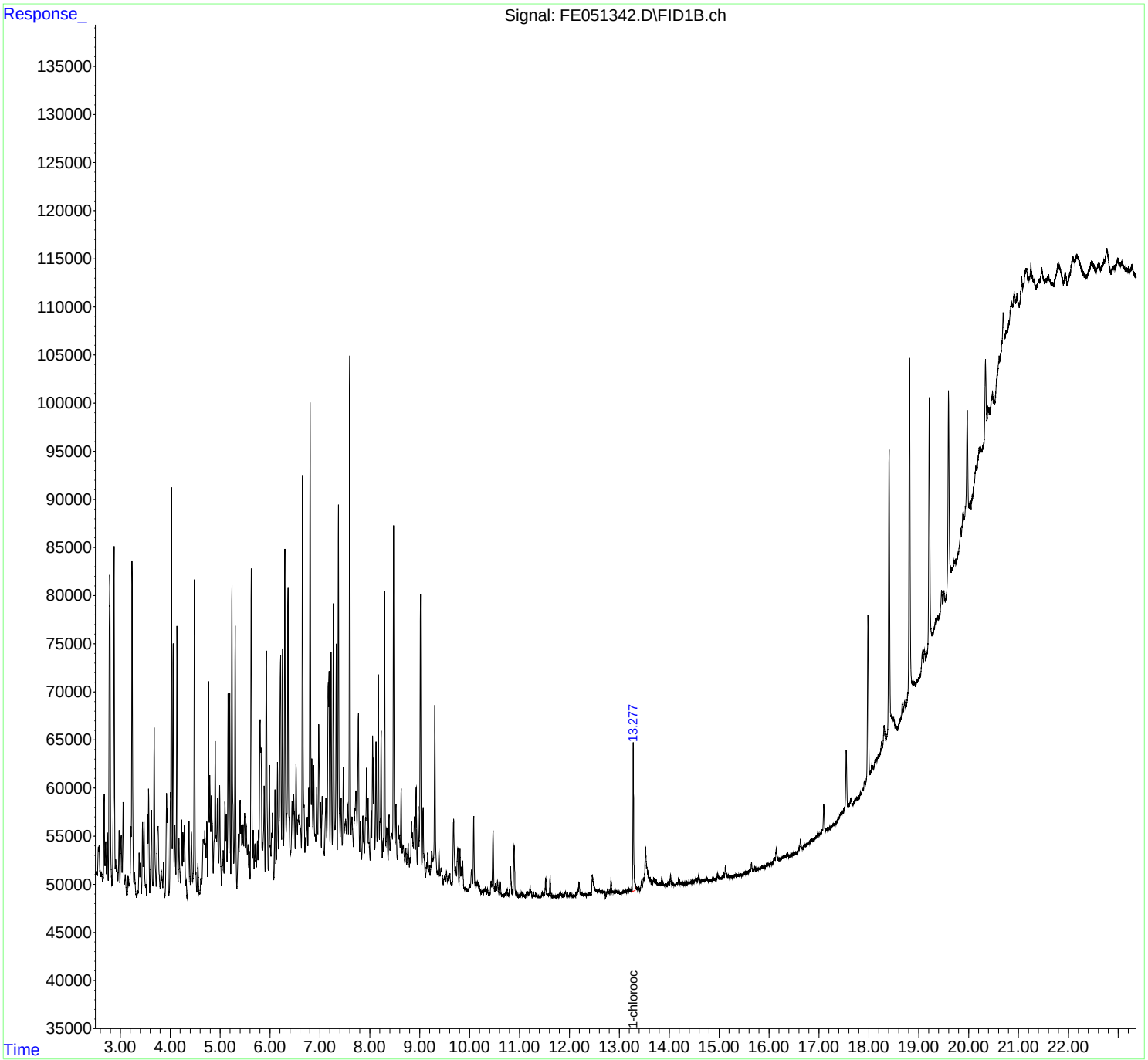
Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

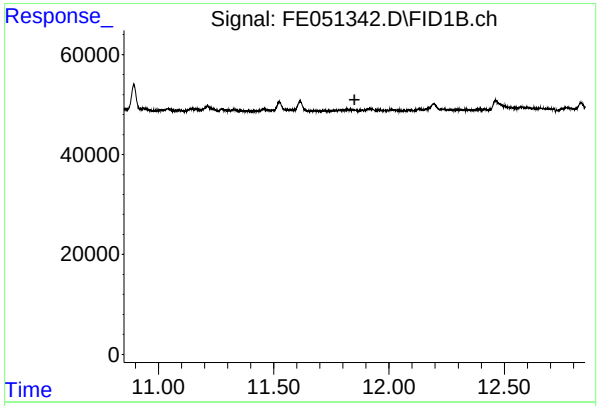
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File: autoint1.e
Quant Time: Nov 20 02:35:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





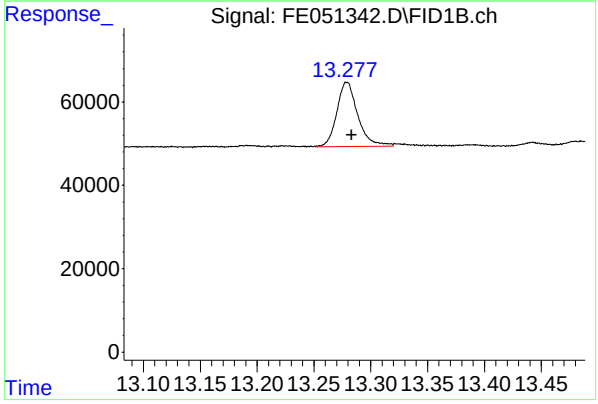
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 mi
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.277 min
Delta R.T.: -0.006 min
Response: 198172
Conc: 1.75 ug/ml m

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11192
Data File : FE051342.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 09:57
Sample : P4839-06DL 20X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.236	3.214	3.271	BV	29685	301323	42.13%	0.942%
2	3.286	3.271	3.325	PV	1307	14639	2.05%	0.046%
3	3.377	3.325	3.392	PV	4466	60838	8.51%	0.190%
4	3.403	3.392	3.424	VV	3432	40548	5.67%	0.127%
5	3.445	3.424	3.459	VV	7704	87235	12.20%	0.273%
6	3.475	3.459	3.528	VV	7773	121461	16.98%	0.380%
7	3.568	3.528	3.590	VV	11171	207898	29.07%	0.650%
8	3.624	3.590	3.657	VV	8937	149242	20.87%	0.467%
9	3.679	3.657	3.718	VV	17585	234961	32.85%	0.735%
10	3.754	3.718	3.797	VV	7283	195147	27.28%	0.610%
11	3.819	3.797	3.850	VV	2802	58748	8.21%	0.184%
12	3.865	3.850	3.891	VV	3534	38487	5.38%	0.120%
13	3.928	3.891	3.939	PV	10756	140899	19.70%	0.441%
14	3.945	3.939	3.973	VV	9148	98734	13.80%	0.309%
15	4.024	3.973	4.043	VV	42454	550975	77.03%	1.723%
16	4.059	4.043	4.079	VV	26283	299018	41.80%	0.935%
17	4.094	4.079	4.113	VV	7478	101727	14.22%	0.318%
18	4.135	4.113	4.158	VV	28136	320720	44.84%	1.003%
19	4.175	4.158	4.206	VV	6102	101981	14.26%	0.319%
20	4.227	4.206	4.241	VV	7946	98700	13.80%	0.309%
21	4.255	4.241	4.268	VV	6669	81152	11.35%	0.254%
22	4.284	4.268	4.339	VV	7440	139342	19.48%	0.436%
23	4.377	4.339	4.403	PV	7874	115178	16.10%	0.360%
24	4.424	4.403	4.450	VV	6769	109075	15.25%	0.341%
25	4.485	4.450	4.534	VV	32864	418941	58.57%	1.310%
26	4.555	4.534	4.590	VV	3482	54402	7.61%	0.170%
27	4.614	4.590	4.627	VV	1910	27788	3.88%	0.087%
28	4.672	4.627	4.681	VV	5966	138807	19.41%	0.434%
29	4.693	4.681	4.719	VV	6877	127659	17.85%	0.399%
30	4.735	4.719	4.750	VV	7793	100779	14.09%	0.315%
31	4.768	4.750	4.782	VV	22346	239503	33.48%	0.749%
32	4.793	4.782	4.813	VV	12395	187491	26.21%	0.586%
33	4.828	4.813	4.862	VV	10545	219339	30.67%	0.686%
34	4.902	4.862	4.930	VV	16217	320526	44.81%	1.003%
35	4.946	4.930	4.973	VV	10254	170458	23.83%	0.533%
36	4.992	4.973	5.029	VV	11577	187172	26.17%	0.585%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

rteres

37	5.063	5.029	5.077	VV	4881	95000	13.28%	0.297%
38	5.097	5.077	5.112	VV	9880	136943	19	
39	5.124	5.112	5.139	VV	8658	108056	15	
40	5.160	5.139	5.177	VV	21029	250277	34	
41	5.193	5.177	5.214	VV	21191	243665	34	
42	5.237	5.214	5.275	VV	32073	480141	67	
43	5.303	5.275	5.336	VV	28267	379999	53.13%	1.189%
44	5.368	5.336	5.380	VV	6551	107581	15.04%	0.336%
45	5.401	5.380	5.435	VV	10119	239871	33.54%	0.750%
46	5.462	5.435	5.474	VV	7564	143538	20.07%	0.449%
47	5.492	5.474	5.510	VV	8683	155921	21.80%	0.488%
48	5.524	5.510	5.546	VV	7363	129587	18.12%	0.405%
49	5.559	5.546	5.574	VV	5316	75128	10.50%	0.235%
50	5.585	5.574	5.601	VV	4774	60450	8.45%	0.189%
51	5.624	5.601	5.651	VV	33982	470250	65.74%	1.471%
52	5.664	5.651	5.682	VV	6938	91184	12.75%	0.285%
53	5.697	5.682	5.727	VV	5499	109822	15.35%	0.344%
54	5.747	5.727	5.759	VV	5824	90291	12.62%	0.282%
55	5.773	5.759	5.780	VV	6989	72292	10.11%	0.226%
56	5.802	5.780	5.856	VV	18422	510649	71.39%	1.597%
57	5.884	5.856	5.901	VV	11653	193087	27.00%	0.604%
58	5.927	5.901	5.966	VV	25683	463885	64.85%	1.451%
59	5.988	5.966	6.018	VV	13688	235329	32.90%	0.736%
60	6.052	6.018	6.076	VV	8752	194450	27.19%	0.608%
61	6.100	6.076	6.119	VV	11188	150291	21.01%	0.470%
62	6.151	6.119	6.171	VV	14031	233303	32.62%	0.730%
63	6.211	6.171	6.232	VV	24942	504015	70.47%	1.576%
64	6.253	6.232	6.273	VV	25762	335641	46.93%	1.050%
65	6.297	6.273	6.325	VV	36012	515870	72.12%	1.614%
66	6.361	6.325	6.414	VV	32068	627349	87.71%	1.962%
67	6.443	6.414	6.461	VV	9988	203442	28.44%	0.636%
68	6.476	6.461	6.504	VV	10607	213529	29.85%	0.668%
69	6.523	6.504	6.549	VV	13831	254311	35.55%	0.795%
70	6.573	6.549	6.631	VV	8438	362818	50.72%	1.135%
71	6.652	6.631	6.701	VV	43640	688788	96.30%	2.154%
72	6.712	6.701	6.722	VV	6154	70177	9.81%	0.220%
73	6.746	6.722	6.760	VV	8354	153777	21.50%	0.481%
74	6.775	6.760	6.785	VV	11358	133024	18.60%	0.416%
75	6.805	6.785	6.828	VV	51260	659955	92.27%	2.064%
76	6.839	6.828	6.861	VV	14341	215058	30.07%	0.673%
77	6.877	6.861	6.917	VV	13656	280694	39.24%	0.878%
78	6.938	6.917	6.957	VV	11419	204102	28.53%	0.638%
79	6.978	6.957	7.005	VV	17872	344689	48.19%	1.078%
80	7.016	7.005	7.030	VV	9776	114875	16.06%	0.359%
81	7.046	7.030	7.091	VV	10537	261513	36.56%	0.818%
82	7.121	7.091	7.139	VV	10374	221649	30.99%	0.693%
83	7.181	7.139	7.203	VV	23294	568302	79.45%	1.778%
84	7.225	7.203	7.251	VV	25430	375435	52.49%	1.174%
85	7.271	7.251	7.304	VV	30329	467488	65.36%	1.462%
86	7.329	7.304	7.349	VV	26149	366132	51.19%	1.145%
87	7.372	7.349	7.408	VV	40564	588480	82.27%	1.841%
88	7.427	7.408	7.448	VV	10290	191730	26.81%	0.600%
89	7.471	7.448	7.489	VV	13424	222490	31.11%	0.696%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

rteres

90	7.517	7.489	7.530	VV	8133	184018	25.73%	0.576%
91	7.558	7.530	7.574	VV	9584	208661	29	
92	7.599	7.574	7.626	VV	56177	715269	100	
93	7.645	7.626	7.674	VV	8237	206567	28	
94	7.723	7.674	7.745	VV	11091	375728	52	
95	7.771	7.745	7.798	VV	19118	364098	50	
96	7.814	7.798	7.835	VV	7829	131584	18.40%	0.412%
97	7.860	7.835	7.895	VV	8378	216480	30.27%	0.677%
98	7.937	7.895	7.953	VV	13444	295471	41.31%	0.924%
99	7.967	7.953	8.007	VV	10241	215204	30.09%	0.673%
100	8.028	8.007	8.041	VV	9036	137130	19.17%	0.429%
101	8.058	8.041	8.072	VV	16799	223708	31.28%	0.700%
102	8.082	8.072	8.103	VV	14511	188058	26.29%	0.588%
103	8.126	8.103	8.147	VV	16138	256050	35.80%	0.801%
104	8.171	8.147	8.194	VV	23149	349408	48.85%	1.093%
105	8.227	8.194	8.251	VV	17244	323534	45.23%	1.012%
106	8.265	8.251	8.278	VV	5852	82505	11.53%	0.258%
107	8.297	8.278	8.322	VV	31504	403818	56.46%	1.263%
108	8.343	8.322	8.368	VV	7139	161346	22.56%	0.505%
109	8.387	8.368	8.408	VV	8431	145150	20.29%	0.454%
110	8.439	8.408	8.454	VV	6655	170886	23.89%	0.535%
111	8.478	8.454	8.508	VV	38569	530788	74.21%	1.660%
112	8.526	8.508	8.551	VV	9603	172400	24.10%	0.539%
113	8.574	8.551	8.608	VV	7369	201516	28.17%	0.630%
114	8.630	8.608	8.649	VV	11315	191149	26.72%	0.598%
115	8.671	8.649	8.704	VV	5356	153626	21.48%	0.481%
116	8.724	8.704	8.742	VV	5041	97188	13.59%	0.304%
117	8.771	8.742	8.795	VV	5452	138244	19.33%	0.432%
118	8.807	8.795	8.816	VV	4099	48574	6.79%	0.152%
119	8.835	8.816	8.878	VV	7838	219919	30.75%	0.688%
120	8.897	8.878	8.913	VV	8317	148809	20.80%	0.465%
121	8.929	8.913	8.952	VV	11393	167329	23.39%	0.523%
122	8.971	8.952	8.987	VV	9292	137198	19.18%	0.429%
123	9.016	8.987	9.045	VV	31333	456709	63.85%	1.429%
124	9.069	9.045	9.117	VV	9215	208386	29.13%	0.652%
125	9.164	9.117	9.184	VV	4644	135477	18.94%	0.424%
126	9.194	9.184	9.209	VV	2993	41305	5.77%	0.129%
127	9.242	9.209	9.264	VV	4765	125293	17.52%	0.392%
128	9.304	9.264	9.361	VV	19903	387492	54.17%	1.212%
129	9.387	9.361	9.411	VV	4795	99022	13.84%	0.310%
130	9.430	9.411	9.473	VV	2972	89295	12.48%	0.279%
131	9.503	9.473	9.519	VV	2134	52883	7.39%	0.165%
132	9.538	9.519	9.555	VV	2617	47214	6.60%	0.148%
133	9.565	9.555	9.571	VV	1961	17506	2.45%	0.055%
134	9.587	9.571	9.639	VV	2354	79490	11.11%	0.249%
135	9.679	9.639	9.711	VV	8031	174016	24.33%	0.544%
136	9.722	9.711	9.736	VV	3120	41670	5.83%	0.130%
137	9.763	9.736	9.787	VV	5134	102696	14.36%	0.321%
138	9.810	9.787	9.827	VV	4982	77198	10.79%	0.241%
139	9.839	9.827	9.850	VV	3098	36315	5.08%	0.114%
140	9.863	9.850	9.968	VV	3758	96556	13.50%	0.302%
141	10.002	9.968	10.014	VV	1330	28022	3.92%	0.088%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

rteres

142	10.039	10.014	10.062	VV	2817	57309	8.01%	0.179%
143	10.084	10.062	10.129	VV	8384	130802	18	
144	10.157	10.129	10.176	VV	1503	38531	5	
145	10.186	10.176	10.233	VV	1454	31696	4	
146	10.255	10.233	10.277	VV	628	14691	2	
147	10.314	10.277	10.339	VV	809	23608	3	
148	10.359	10.339	10.398	VV	811	17229	2.41%	0.054%
149	10.431	10.398	10.443	VV	1613	24738	3.46%	0.077%
150	10.471	10.443	10.501	VV	6939	111507	15.59%	0.349%
151	10.520	10.501	10.540	VV	1346	23754	3.32%	0.074%
152	10.561	10.540	10.598	VV	1548	31511	4.41%	0.099%
153	10.616	10.598	10.651	VV	1442	21172	2.96%	0.066%
154	10.657	10.651	10.681	VV	214	3187	0.45%	0.010%
155	10.714	10.681	10.727	VV	346	6376	0.89%	0.020%
156	10.752	10.727	10.780	VV	835	14825	2.07%	0.046%
157	10.823	10.780	10.862	VV	3111	54029	7.55%	0.169%
158	10.893	10.862	10.924	VV	5271	80377	11.24%	0.251%
159	10.939	10.924	10.980	VV	614	11259	1.57%	0.035%
160	11.041	10.980	11.080	VV	501	14228	1.99%	0.045%
161	11.089	11.080	11.112	VV	249	2990	0.42%	0.009%
162	11.145	11.112	11.158	VV	514	8486	1.19%	0.027%
163	11.162	11.158	11.184	VV	515	5849	0.82%	0.018%
164	11.213	11.184	11.258	VV	1049	23426	3.28%	0.073%
165	11.276	11.258	11.313	VV	474	7915	1.11%	0.025%
166	11.327	11.313	11.374	VV	343	5823	0.81%	0.018%
167	11.384	11.374	11.434	VV	106	1746	0.24%	0.005%
168	11.458	11.434	11.482	VV	503	7730	1.08%	0.024%
169	11.524	11.482	11.577	VV	1923	34132	4.77%	0.107%
170	11.614	11.577	11.667	VV	1987	33103	4.63%	0.104%
171	11.688	11.667	11.704	VV	157	1955	0.27%	0.006%
172	11.719	11.704	11.743	PV	132	1730	0.24%	0.005%
173	11.764	11.743	11.778	VV	180	2344	0.33%	0.007%
174	11.819	11.778	11.871	VV	421	12609	1.76%	0.039%
175	11.882	11.871	11.894	VV	240	2366	0.33%	0.007%
176	11.920	11.894	11.941	VV	516	8755	1.22%	0.027%
177	11.960	11.941	11.975	VV	322	3903	0.55%	0.012%
178	11.981	11.975	11.991	VV	151	1226	0.17%	0.004%
179	12.009	11.991	12.066	VV	289	6486	0.91%	0.020%
180	12.132	12.066	12.151	VV	370	9184	1.28%	0.029%
181	12.194	12.151	12.249	VV	1486	36354	5.08%	0.114%
182	12.257	12.249	12.294	VV	276	5261	0.74%	0.016%
183	12.307	12.294	12.321	VV	251	3362	0.47%	0.011%
184	12.326	12.321	12.334	VV	187	1414	0.20%	0.004%
185	12.339	12.334	12.370	VV	231	3525	0.49%	0.011%
186	12.393	12.370	12.408	VV	327	5657	0.79%	0.018%
187	12.413	12.408	12.437	VV	323	4387	0.61%	0.014%
188	12.461	12.437	12.553	VV	2137	69105	9.66%	0.216%
189	12.573	12.553	12.636	VV	687	27855	3.89%	0.087%
190	12.655	12.636	12.682	VV	493	12150	1.70%	0.038%
191	12.687	12.682	12.734	VV	429	8144	1.14%	0.025%
192	12.774	12.734	12.811	PV	627	17759	2.48%	0.056%
193	12.833	12.811	12.879	VV	1620	28896	4.04%	0.090%
194	12.887	12.879	12.908	VV	333	4683	0.65%	0.015%

Instrument :
FID_E
ClientSampleId :
EX-9-TPH-14DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

rteres

195	12.939	12.908	13.026	VV	381	14714	2.06%	0.046%
196	13.052	13.026	13.068	VV	147	3001		
197	13.091	13.068	13.117	VV	258	5633		
198	13.125	13.117	13.135	VV	246	1927		
199	13.156	13.135	13.172	VV	245	3928		
200	13.192	13.172	13.207	VV	444	6225		
201	13.225	13.207	13.239	VV	289	4569	0.64%	0.014%
202	13.279	13.239	13.371	VV	15603	218190	30.50%	0.682%
203	13.388	13.371	13.414	VV	438	8107	1.13%	0.025%
204	13.442	13.414	13.461	VV	988	14744	2.06%	0.046%
205	13.486	13.461	13.496	VV	1235	20558	2.87%	0.064%
206	13.525	13.496	13.609	VV	4448	146382	20.47%	0.458%
207	13.620	13.609	13.648	VV	1229	22753	3.18%	0.071%
208	13.692	13.648	13.788	VV	1115	58410	8.17%	0.183%
209	13.794	13.788	13.833	VV	570	12624	1.76%	0.039%
210	13.853	13.833	13.911	VV	956	22586	3.16%	0.071%

Sum of corrected areas: 31970670

Aliphatic EPH 110724.M Wed Nov 20 04:43:13 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-14		SDG No.:	P4839	
Lab Sample ID:	P4839-06		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.9	
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
FF015071.D	10	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	94.2		3.41	7.57	mg/kg
Aromatic C12-C16	Aromatic C12-C16	75.3		3.86	11.4	mg/kg
Aromatic C16-C21	Aromatic C16-C21	24.0		10.9	18.9	mg/kg
Aromatic C21-C36	Aromatic C21-C36	22.7	U	22.7	30.3	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	7.12		40 - 140	142%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	6.85		40 - 140	137%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	2.99		40 - 140	60%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-06DL	Acq On:	15 Nov 2024 21:20
Client Sample ID:	P4839-06DL	Operator:	YP\AJ
Data file:	FF015071.D	Misc:	
Instrument:	FID_F	ALS Vial:	76
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	17018298	124.416	200	ug/ml
Aromatic C12-C16	6.372	9.062	13432720	99.485	300	ug/ml
Aromatic C16-C21	9.063	13.374	4057579	31.726	500	ug/ml
Aromatic C21-C36	13.375	18.817	345286	2.833	800	ug/ml
Aromatic EPH	4.507	18.817	34853883	258.46		ug/ml
2-Bromonaphthalene (SURR)	7.989	7.989	869713	7.12		ug/ml
2-Flurobiphenyl (SURR)	8.862	8.862	558864	6.85		ug/ml
ortho-Terphenyl (SURR)	11.922	11.922	401116	2.99		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015071.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:20
Operator : YP\AJ
Sample : P4839-06DL 10X
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 00:27:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.989	869713	7.122 ug/ml
Spiked Amount 50.000		Recovery =	14.24%
6) S 2-Flurobiphenyl (SURR)	8.862	558864	6.845 ug/ml
Spiked Amount 50.000 Range	0 - 131	Recovery =	13.69%
11) S ortho-Terphenyl (SURR)	11.922	401116	2.990 ug/mlm
Spiked Amount 50.000		Recovery =	5.98%
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015071.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:20
Operator : YP\AJ
Sample : P4839-06DL 10X
Misc :
ALS Vial : 76 Sample Multiplier: 1

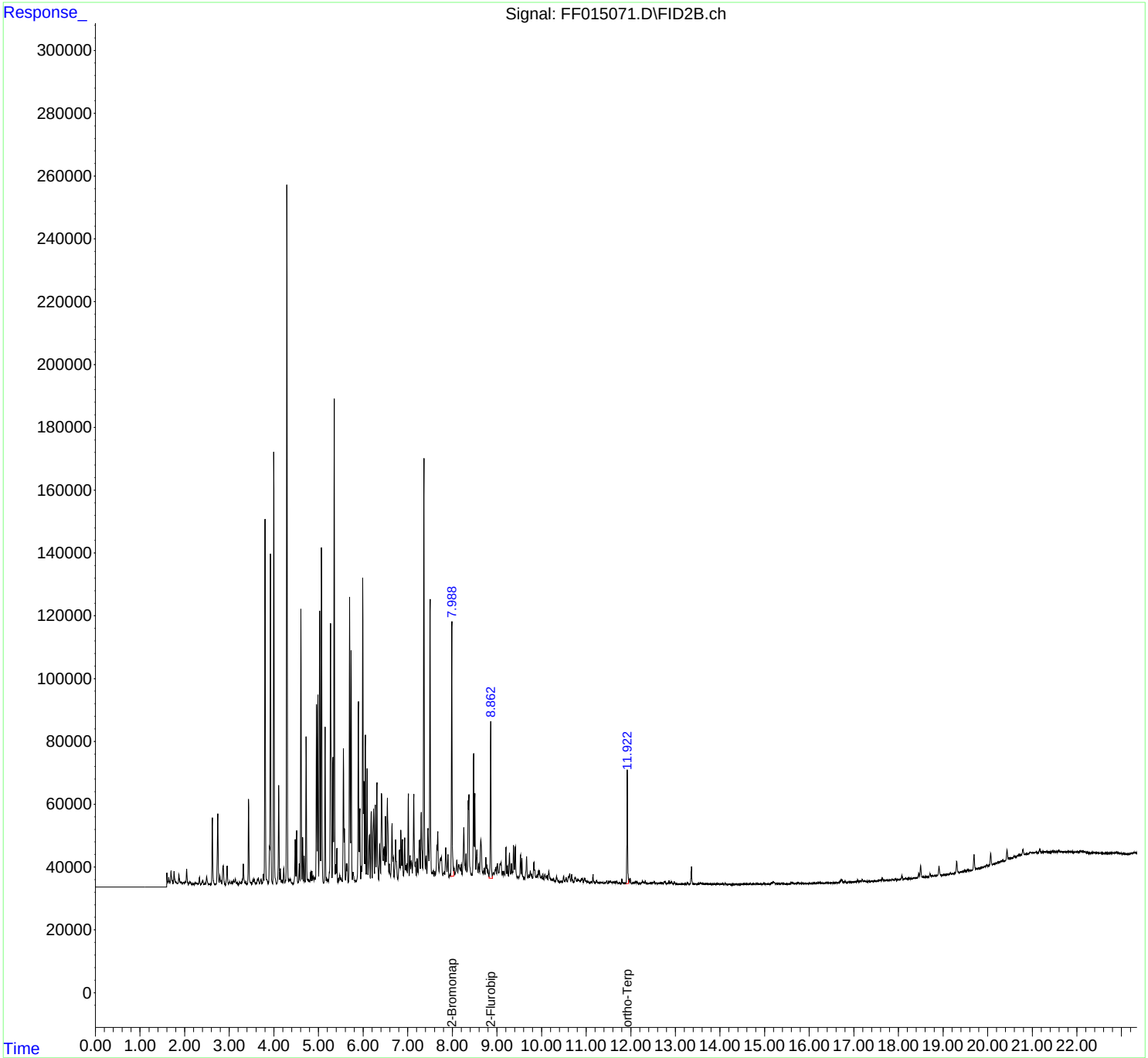
Integration File: autoint1.e
Quant Time: Nov 18 00:27:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

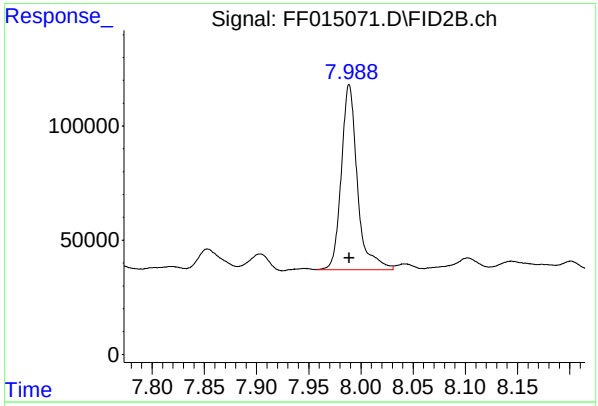
Volume Inj. : 1 µl
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18µm

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024





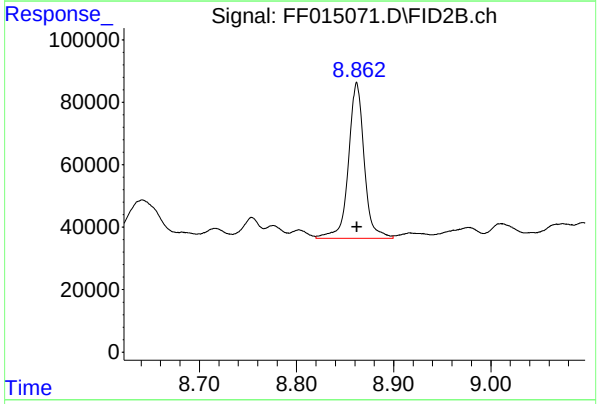
#4 2-Bromonaphthalene (SURR)

R.T.: 7.989 min
Delta R.T.: 0.000 mi
Response: 869713
Conc: 7.12 ug/m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14DL

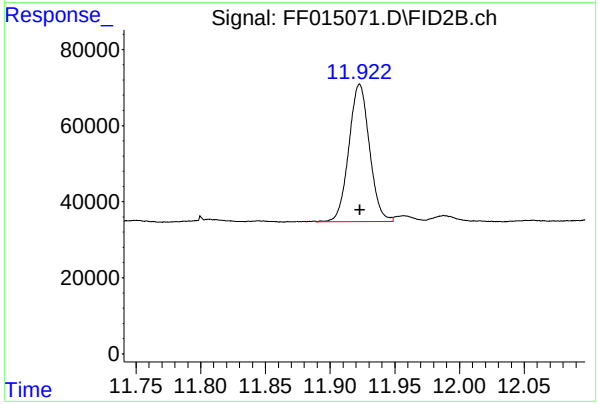
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 558864
Conc: 6.85 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.922 min
Delta R.T.: 0.000 min
Response: 401116
Conc: 2.99 ug/ml m

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11162
Data File : FF015071.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:20
Sample : P4839-06DL 10X
Misc :
ALS Vial : 76 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.479	4.420	4.495	BV	14077	159025	10.33%	0.434%
2	4.511	4.495	4.540	VV	16855	178793	11.61%	0.488%
3	4.570	4.540	4.586	VV	6382	70676	4.59%	0.193%
4	4.607	4.586	4.629	VV	87302	862719	56.04%	2.356%
5	4.646	4.629	4.664	VV	14701	149028	9.68%	0.407%
6	4.680	4.664	4.702	VV	8909	91241	5.93%	0.249%
7	4.724	4.702	4.774	VV	46845	490724	31.87%	1.340%
8	4.783	4.774	4.804	VV	1130	17051	1.11%	0.047%
9	4.825	4.804	4.839	VV	3738	44010	2.86%	0.120%
10	4.854	4.839	4.868	VV	4038	40930	2.66%	0.112%
11	4.881	4.868	4.900	VV	2435	33558	2.18%	0.092%
12	4.914	4.900	4.927	VV	1737	24428	1.59%	0.067%
13	4.957	4.927	4.971	VV	56931	580366	37.70%	1.585%
14	4.986	4.971	5.006	VV	60031	600736	39.02%	1.640%
15	5.028	5.006	5.050	VV	86920	1122740	72.92%	3.066%
16	5.068	5.050	5.117	VV	106622	1167939	75.86%	3.189%
17	5.149	5.117	5.172	VV	49839	495531	32.19%	1.353%
18	5.183	5.172	5.200	VV	1755	21764	1.41%	0.059%
19	5.212	5.200	5.226	VV	1321	15122	0.98%	0.041%
20	5.245	5.226	5.250	VV	3724	33130	2.15%	0.090%
21	5.271	5.250	5.305	VV	82937	1166959	75.80%	3.186%
22	5.325	5.305	5.337	VV	40241	401469	26.08%	1.096%
23	5.354	5.337	5.376	VV	154284	1503736	97.67%	4.106%
24	5.387	5.376	5.398	VV	5980	60547	3.93%	0.165%
25	5.412	5.398	5.431	VV	11287	114079	7.41%	0.311%
26	5.448	5.431	5.461	VV	1665	19820	1.29%	0.054%
27	5.478	5.461	5.499	VV	2676	41282	2.68%	0.113%
28	5.508	5.499	5.533	VV	1816	25110	1.63%	0.069%
29	5.561	5.533	5.575	VV	43004	464466	30.17%	1.268%
30	5.583	5.575	5.605	VV	17571	165096	10.72%	0.451%
31	5.625	5.605	5.635	VV	6403	69488	4.51%	0.190%
32	5.645	5.635	5.665	VV	6314	65220	4.24%	0.178%
33	5.699	5.665	5.717	VV	91241	953412	61.93%	2.603%
34	5.733	5.717	5.761	VV	74300	785212	51.00%	2.144%
35	5.775	5.761	5.821	VV	3632	70075	4.55%	0.191%
36	5.834	5.821	5.845	VV	1057	12585	0.82%	0.034%

Instrument :
FID_F
ClientSampleId :
EX-9-TPH-14DL

rteres

Manual IntegrationsAPPROVED

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37	5.894	5.845	5.914	VV	57955	668685	43.43%	1.826%
38	5.928	5.914	5.947	VV	23838	254340	16	
39	5.964	5.947	5.973	VV	5638	61560	4	
40	5.994	5.973	6.010	VV	97398	1014634	65	
41	6.019	6.010	6.035	VV	32590	334070	21	
42	6.050	6.035	6.071	VV	47286	473755	30	
43	6.091	6.071	6.110	VV	36651	377107	24.49%	1.030%
44	6.143	6.110	6.161	VV	15598	272327	17.69%	0.744%
45	6.182	6.161	6.204	VV	22843	300953	19.55%	0.822%
46	6.236	6.204	6.256	VV	23088	424693	27.58%	1.160%
47	6.272	6.256	6.289	VV	25062	269511	17.51%	0.736%
48	6.310	6.289	6.350	VV	32252	426561	27.71%	1.165%
49	6.371	6.350	6.393	VV	12573	181060	11.76%	0.494%
50	6.415	6.393	6.449	VV	28519	541076	35.14%	1.477%
51	6.461	6.449	6.467	VV	10757	103086	6.70%	0.281%
52	6.476	6.467	6.488	VV	11796	121184	7.87%	0.331%
53	6.502	6.488	6.519	VV	21459	242375	15.74%	0.662%
54	6.545	6.519	6.577	VV	27129	504398	32.76%	1.377%
55	6.588	6.577	6.619	VV	6305	100935	6.56%	0.276%
56	6.649	6.619	6.668	VV	19026	287058	18.65%	0.784%
57	6.676	6.668	6.695	VV	8346	91536	5.95%	0.250%
58	6.730	6.695	6.778	VV	14012	298951	19.42%	0.816%
59	6.817	6.778	6.831	VV	10720	181210	11.77%	0.495%
60	6.847	6.831	6.866	VV	17064	240507	15.62%	0.657%
61	6.882	6.866	6.904	VV	14046	187243	12.16%	0.511%
62	6.934	6.904	6.950	VV	14601	202957	13.18%	0.554%
63	6.959	6.950	6.970	VV	5817	62719	4.07%	0.171%
64	6.983	6.970	6.996	VV	6435	79377	5.16%	0.217%
65	7.014	6.996	7.034	VV	28621	306756	19.92%	0.838%
66	7.053	7.034	7.068	VV	8924	120646	7.84%	0.329%
67	7.080	7.068	7.104	VV	7246	127466	8.28%	0.348%
68	7.137	7.104	7.165	VV	28396	447956	29.10%	1.223%
69	7.174	7.165	7.193	VV	6699	82892	5.38%	0.226%
70	7.212	7.193	7.231	VV	7966	120283	7.81%	0.328%
71	7.264	7.231	7.284	VV	13820	273339	17.75%	0.746%
72	7.304	7.284	7.336	VV	22660	376729	24.47%	1.029%
73	7.364	7.336	7.396	VV	135344	1539589	100.00%	4.204%
74	7.413	7.396	7.432	VV	8824	133007	8.64%	0.363%
75	7.452	7.432	7.478	VV	17598	295431	19.19%	0.807%
76	7.502	7.478	7.537	VV	90705	1037596	67.39%	2.833%
77	7.549	7.537	7.564	VV	3523	53566	3.48%	0.146%
78	7.575	7.564	7.591	VV	4134	55786	3.62%	0.152%
79	7.608	7.591	7.624	VV	3845	62145	4.04%	0.170%
80	7.656	7.624	7.663	VV	12228	162187	10.53%	0.443%
81	7.675	7.663	7.703	VV	16515	242414	15.75%	0.662%
82	7.732	7.703	7.741	VV	7865	144233	9.37%	0.394%
83	7.758	7.741	7.789	VV	8556	169257	10.99%	0.462%
84	7.818	7.789	7.832	VV	3742	84235	5.47%	0.230%
85	7.853	7.832	7.882	VV	11389	208280	13.53%	0.569%
86	7.903	7.882	7.925	VV	9222	148216	9.63%	0.405%
87	7.946	7.925	7.957	VV	2942	48585	3.16%	0.133%
88	7.989	7.957	8.030	VV	83443	972984	63.20%	2.657%
89	8.042	8.030	8.060	VV	4888	71352	4.63%	0.195%

Instrument :
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EX-9-TPH-14DL

Manual IntegrationsAPPROVED

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rteres

90	8.102	8.060	8.123	VV	7548	179487	11.66%	0.490%
91	8.144	8.123	8.170	VV	6065	142109	9	
92	8.173	8.170	8.187	VV	4697	43959	2	
93	8.201	8.187	8.219	VV	6094	90355	5	
94	8.259	8.219	8.294	VV	17851	379154	24	
95	8.309	8.294	8.327	VV	9444	125253	8	
96	8.358	8.327	8.365	VV	26526	288869	18.76%	0.789%
97	8.372	8.365	8.435	VV	28361	403161	26.19%	1.101%
98	8.441	8.435	8.447	VV	2766	18448	1.20%	0.050%
99	8.479	8.447	8.493	VV	41484	505988	32.87%	1.382%
100	8.506	8.493	8.526	VV	28672	318030	20.66%	0.868%
101	8.551	8.526	8.577	VV	10735	218333	14.18%	0.596%
102	8.594	8.577	8.613	VV	6211	104793	6.81%	0.286%
103	8.641	8.613	8.697	VV	13983	378742	24.60%	1.034%
104	8.717	8.697	8.734	VV	4870	83651	5.43%	0.228%
105	8.754	8.734	8.767	VV	8373	113188	7.35%	0.309%
106	8.776	8.767	8.792	VV	5754	71254	4.63%	0.195%
107	8.803	8.792	8.820	VV	4385	58881	3.82%	0.161%
108	8.862	8.820	8.899	VV	51560	638337	41.46%	1.743%
109	8.917	8.899	8.940	VV	3392	73933	4.80%	0.202%
110	8.977	8.940	8.993	VV	5185	128839	8.37%	0.352%
111	9.011	8.993	9.036	VV	6379	127169	8.26%	0.347%
112	9.043	9.036	9.047	VV	3539	22566	1.47%	0.062%
113	9.074	9.047	9.085	VV	6360	124749	8.10%	0.341%
114	9.095	9.085	9.114	VV	6731	91548	5.95%	0.250%
115	9.125	9.114	9.139	VV	3819	49170	3.19%	0.134%
116	9.152	9.139	9.179	VV	3928	76505	4.97%	0.209%
117	9.203	9.179	9.223	VV	11486	169904	11.04%	0.464%
118	9.238	9.223	9.260	VV	5557	89674	5.82%	0.245%
119	9.283	9.260	9.308	VV	9737	156622	10.17%	0.428%
120	9.328	9.308	9.344	VV	6415	94356	6.13%	0.258%
121	9.375	9.344	9.395	VV	12197	202918	13.18%	0.554%
122	9.414	9.395	9.454	VV	11770	195524	12.70%	0.534%
123	9.474	9.454	9.490	VV	2129	41850	2.72%	0.114%
124	9.531	9.490	9.547	VV	9183	146294	9.50%	0.399%
125	9.562	9.547	9.598	VV	7967	120127	7.80%	0.328%
126	9.611	9.598	9.627	VV	2021	29247	1.90%	0.080%
127	9.667	9.627	9.696	VV	8628	165682	10.76%	0.452%
128	9.713	9.696	9.729	VV	2730	44677	2.90%	0.122%
129	9.750	9.729	9.766	VV	4011	66469	4.32%	0.181%
130	9.776	9.766	9.800	VV	2972	47055	3.06%	0.128%
131	9.830	9.800	9.882	VV	6854	173701	11.28%	0.474%
132	9.901	9.882	9.914	VV	2785	44724	2.90%	0.122%
133	9.931	9.914	9.942	VV	4017	53756	3.49%	0.147%
134	9.955	9.942	9.975	VV	4189	61132	3.97%	0.167%
135	9.993	9.975	10.014	VV	2229	44314	2.88%	0.121%
136	10.031	10.014	10.053	VV	3010	50369	3.27%	0.138%
137	10.074	10.053	10.097	VV	2905	57030	3.70%	0.156%
138	10.123	10.097	10.140	VV	2492	53572	3.48%	0.146%
139	10.163	10.140	10.195	VV	3966	83497	5.42%	0.228%
140	10.200	10.195	10.219	VV	1603	18772	1.22%	0.051%
141	10.235	10.219	10.253	VV	1360	24084	1.56%	0.066%

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rteres

142	10.270	10.253	10.303	VV	1666	34023	2.21%	0.093%
143	10.337	10.303	10.379	VV	2208	55136		
144	10.393	10.379	10.419	VV	697	13576		
145	10.439	10.419	10.455	VV	848	13573		
146	10.464	10.455	10.474	VV	650	6259		
147	10.495	10.474	10.527	VV	2406	39832		
148	10.550	10.527	10.578	VV	1844	34902	2.27%	0.095%
149	10.604	10.578	10.615	VV	2239	33276	2.16%	0.091%
150	10.631	10.615	10.657	VV	3099	50404	3.27%	0.138%
151	10.675	10.657	10.724	VV	2905	52769	3.43%	0.144%
152	10.750	10.724	10.790	VV	1953	49450	3.21%	0.135%
153	10.814	10.790	10.840	VV	1415	32310	2.10%	0.088%
154	10.847	10.840	10.865	VV	995	12531	0.81%	0.034%
155	10.918	10.865	10.939	VV	1596	48768	3.17%	0.133%
156	10.967	10.939	10.997	VV	1649	39330	2.55%	0.107%
157	11.000	10.997	11.020	VV	680	8539	0.55%	0.023%
158	11.029	11.020	11.047	VV	698	9605	0.62%	0.026%
159	11.054	11.047	11.073	VV	444	4730	0.31%	0.013%
160	11.119	11.073	11.132	VV	520	12481	0.81%	0.034%
161	11.154	11.132	11.197	VV	2944	40836	2.65%	0.112%
162	11.231	11.197	11.272	VV	945	20343	1.32%	0.056%
163	11.282	11.272	11.308	VV	277	4959	0.32%	0.014%
164	11.334	11.308	11.359	VV	453	9438	0.61%	0.026%
165	11.372	11.359	11.392	VV	352	4301	0.28%	0.012%
166	11.463	11.392	11.487	VV	877	17457	1.13%	0.048%
167	11.512	11.500	11.524	BV	176	1380	0.09%	0.004%
168	11.546	11.532	11.567	VV	403	4321	0.28%	0.012%
169	11.603	11.588	11.618	PV	446	4026	0.26%	0.011%
170	11.635	11.618	11.663	VV	363	6115	0.40%	0.017%
171	11.680	11.663	11.720	VV	608	11466	0.74%	0.031%
172	11.750	11.720	11.773	PV	404	5468	0.36%	0.015%
173	11.801	11.773	11.833	PV	1364	13423	0.87%	0.037%
174	11.845	11.833	11.864	VV	346	3626	0.24%	0.010%
175	11.923	11.864	11.947	VV	36248	406548	26.41%	1.110%
176	11.957	11.947	11.973	VV	1689	19246	1.25%	0.053%
177	11.988	11.973	12.014	VV	1702	23302	1.51%	0.064%
178	12.016	12.014	12.035	VV	380	2901	0.19%	0.008%
179	12.057	12.035	12.077	VV	507	9092	0.59%	0.025%
180	12.105	12.077	12.121	VV	853	14173	0.92%	0.039%
181	12.137	12.121	12.188	VV	877	15413	1.00%	0.042%
182	12.211	12.188	12.231	VV	377	5539	0.36%	0.015%
183	12.261	12.231	12.286	VV	745	17557	1.14%	0.048%
184	12.294	12.286	12.306	VV	549	5262	0.34%	0.014%
185	12.325	12.306	12.349	VV	772	12421	0.81%	0.034%
186	12.351	12.349	12.380	VV	284	3874	0.25%	0.011%
187	12.399	12.380	12.422	VV	295	5187	0.34%	0.014%
188	12.435	12.422	12.445	VV	359	3958	0.26%	0.011%
189	12.457	12.445	12.475	VV	354	5319	0.35%	0.015%
190	12.492	12.475	12.506	VV	489	7424	0.48%	0.020%
191	12.522	12.506	12.555	VV	947	15609	1.01%	0.043%
192	12.566	12.555	12.570	VV	403	2997	0.19%	0.008%
193	12.574	12.570	12.587	VV	425	3155	0.20%	0.009%
194	12.591	12.587	12.597	VV	234	1354	0.09%	0.004%

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rteres

195	12.602	12.597	12.623	VV	296	3252	0.21%	0.009%
196	12.637	12.623	12.672	VV	392	8269		
197	12.680	12.672	12.684	VV	350	2244		
198	12.702	12.684	12.727	VV	495	8937		
199	12.751	12.727	12.758	VV	819	10734		
200	12.770	12.758	12.800	VV	824	12339		
201	12.827	12.800	12.839	VV	399	5687	0.37%	0.016%
202	12.857	12.839	12.876	VV	1185	16305	1.06%	0.045%
203	12.893	12.876	12.902	VV	561	7259	0.47%	0.020%
204	12.915	12.902	12.938	VV	838	11978	0.78%	0.033%
205	12.943	12.938	12.950	VV	228	1318	0.09%	0.004%
206	12.974	12.950	13.029	VV	863	15630	1.02%	0.043%
207	13.034	13.029	13.061	VV	180	1803	0.12%	0.005%
208	13.103	13.061	13.113	VV	169	2919	0.19%	0.008%
209	13.191	13.113	13.223	VV	270	9174	0.60%	0.025%
210	13.273	13.253	13.297	VV	717	9302	0.60%	0.025%
211	13.314	13.306	13.332	VV	163	2004	0.13%	0.005%
212	13.360	13.332	13.388	VV	5671	72119	4.68%	0.197%
213	13.407	13.388	13.444	VV	339	7833	0.51%	0.021%
214	13.449	13.444	13.459	VV	229	1671	0.11%	0.005%
215	13.468	13.459	13.504	VV	226	3477	0.23%	0.009%
216	13.547	13.504	13.570	PV	474	12757	0.83%	0.035%
217	13.578	13.570	13.593	VV	512	5559	0.36%	0.015%
218	13.602	13.593	13.636	VV	495	6998	0.45%	0.019%
219	13.641	13.636	13.654	VV	225	1656	0.11%	0.005%
220	13.671	13.654	13.685	VV	274	3971	0.26%	0.011%
221	13.704	13.685	13.718	VV	420	5837	0.38%	0.016%
222	13.730	13.718	13.804	VV	306	10708	0.70%	0.029%
223	13.811	13.804	13.842	VV	240	3903	0.25%	0.011%
224	13.861	13.842	13.895	VV	333	6144	0.40%	0.017%
225	13.930	13.895	13.947	VV	371	7194	0.47%	0.020%
226	13.975	13.956	13.995	VV	328	5650	0.37%	0.015%
227	14.010	13.995	14.029	VV	236	3423	0.22%	0.009%
228	14.032	14.029	14.045	VV	193	1772	0.12%	0.005%
229	14.063	14.045	14.100	VV	421	7885	0.51%	0.022%
230	14.111	14.100	14.131	VV	369	5321	0.35%	0.015%
231	14.137	14.131	14.164	VV	295	3111	0.20%	0.008%
232	14.180	14.172	14.196	VV	205	1909	0.12%	0.005%
233	14.201	14.196	14.217	VV	98	1061	0.07%	0.003%
234	14.230	14.217	14.241	VV	142	1284	0.08%	0.004%
235	14.247	14.241	14.280	VV	135	1479	0.10%	0.004%
236	14.340	14.302	14.364	PV	185	4107	0.27%	0.011%
237	14.444	14.420	14.463	VV	149	2115	0.14%	0.006%
238	14.478	14.463	14.490	VV	162	1908	0.12%	0.005%
239	14.508	14.499	14.530	VV	192	2751	0.18%	0.008%
240	14.544	14.530	14.578	VV	325	6825	0.44%	0.019%
241	14.591	14.578	14.613	VV	296	3958	0.26%	0.011%
242	14.631	14.613	14.650	VV	216	3319	0.22%	0.009%
243	14.681	14.650	14.713	VV	349	8157	0.53%	0.022%
244	14.735	14.713	14.764	VV	358	6371	0.41%	0.017%
245	14.775	14.764	14.792	VV	230	2850	0.19%	0.008%
246	14.819	14.792	14.828	VV	264	4440	0.29%	0.012%

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					rteres			
247	14.836	14.828	14.859	VV	323	4178	0.27%	0.011%
248	14.874	14.869	14.886	VV	166	1021		
249	14.913	14.899	14.927	VV	268	3639		
250	14.931	14.927	14.945	VV	229	1215		
251	14.962	14.945	14.968	VV	131	1359		
252	14.992	14.968	15.031	VV	373	7850		
253	15.058	15.042	15.097	VV	250	4096	0.27%	0.011%
254	15.106	15.097	15.129	VV	97	1341	0.09%	0.004%
255	15.150	15.129	15.167	VV	623	8747	0.57%	0.024%
256	15.192	15.167	15.209	VV	904	16659	1.08%	0.045%
257	15.214	15.209	15.252	VV	622	8799	0.57%	0.024%
258	15.262	15.252	15.292	VV	339	4503	0.29%	0.012%
259	15.309	15.292	15.314	VV	197	1812	0.12%	0.005%
260	15.324	15.314	15.350	VV	210	3431	0.22%	0.009%
261	15.355	15.350	15.366	VV	179	1223	0.08%	0.003%
262	15.385	15.366	15.432	VV	258	5694	0.37%	0.016%
263	15.454	15.432	15.504	VV	145	2487	0.16%	0.007%
264	15.603	15.534	15.628	PV	387	9751	0.63%	0.027%
265	15.636	15.628	15.664	VV	350	4966	0.32%	0.014%
266	15.672	15.664	15.684	VV	201	1683	0.11%	0.005%
267	15.702	15.695	15.718	VV	168	1789	0.12%	0.005%
268	15.753	15.718	15.778	VV	400	9325	0.61%	0.025%
269	15.793	15.778	15.807	VV	146	1535	0.10%	0.004%
270	15.825	15.807	15.875	VV	183	3691	0.24%	0.010%
271	15.887	15.875	15.920	VV	116	1418	0.09%	0.004%
272	16.016	15.970	16.028	VV	125	2728	0.18%	0.007%
273	16.037	16.028	16.072	VV	90	1924	0.12%	0.005%
274	16.102	16.087	16.135	VV	141	2385	0.15%	0.007%
275	16.200	16.135	16.217	VV	202	6144	0.40%	0.017%
276	16.239	16.217	16.269	VV	413	6776	0.44%	0.019%
277	16.300	16.290	16.318	VV	134	1435	0.09%	0.004%
278	16.375	16.318	16.388	VV	231	4196	0.27%	0.011%
279	16.397	16.388	16.462	VV	174	4969	0.32%	0.014%
280	16.520	16.479	16.563	PV	104	2829	0.18%	0.008%
281	16.615	16.563	16.651	VV	174	3771	0.24%	0.010%
282	16.733	16.651	16.776	PV	790	28059	1.82%	0.077%
283	16.805	16.776	16.844	VV	467	8714	0.57%	0.024%
284	16.853	16.844	16.875	VV	134	1740	0.11%	0.005%
			Sum of corrected areas:			36624232		

Aromatic EPH 111524.M Mon Nov 18 01:34:45 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-15			SDG No.:	P4839
Lab Sample ID:	P4839-07			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	82.7
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 9:25	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	30.4		5	2.29	6.03	mg/kg	FC067799.D
Aliphatic C12-C16	Aliphatic C12-C16	44.1		5	1.45	4.02	mg/kg	FC067799.D
Aliphatic C16-C21	Aliphatic C16-C21	2.39		1	0.36	1.21	mg/kg	FC067774.D
Aliphatic C21-C28	Aliphatic C21-C28	0.97	U	1	0.97	1.61	mg/kg	FC067774.D
Aliphatic C28-C40	Aliphatic C28-C40	3.38		1	2.17	2.41	mg/kg	FC067774.D
Aromatic C10-C12	Aromatic C10-C12	6.12		1	0.36	0.80	mg/kg	FD048743.D
Aromatic C12-C16	Aromatic C12-C16	16.5		1	0.41	1.21	mg/kg	FD048743.D
Aromatic C16-C21	Aromatic C16-C21	6.62		1	1.16	2.01	mg/kg	FD048743.D
Aromatic C21-C36	Aromatic C21-C36	2.41	U	1	2.41	3.22	mg/kg	FD048743.D
Total AliphaticEPH	Total AliphaticEPH	80.3			7.24	15.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	29.2			4.34	7.24	mg/kg	
Total EPH	Total EPH	110			11.6	22.5	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-15			SDG No.:	P4839
Lab Sample ID:	P4839-07			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	82.7
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 9:25	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	30.4		5	2.29	6.03	mg/kg	FC067799.D
Aliphatic C12-C16	Aliphatic C12-C16	44.1		5	1.45	4.02	mg/kg	FC067799.D
Aliphatic C16-C21	Aliphatic C16-C21	2.39		1	0.36	1.21	mg/kg	FC067774.D
Aliphatic C21-C28	Aliphatic C21-C28	0.97	U	1	0.97	1.61	mg/kg	FC067774.D
Aliphatic C28-C40	Aliphatic C28-C40	3.38		1	2.17	2.41	mg/kg	FC067774.D
Aromatic C10-C12	Aromatic C10-C12	6.12		1	0.36	0.80	mg/kg	FD048743.D
Aromatic C12-C16	Aromatic C12-C16	16.5		1	0.41	1.21	mg/kg	FD048743.D
Aromatic C16-C21	Aromatic C16-C21	6.62		1	1.16	2.01	mg/kg	FD048743.D
Aromatic C21-C36	Aromatic C21-C36	2.41	U	1	2.41	3.22	mg/kg	FD048743.D
Total AliphaticEPH	Total AliphaticEPH	80.3			7.24	15.3	mg/kg	
Total AromaticEPH	Total AromaticEPH	29.2			4.34	7.24	mg/kg	
Total EPH	Total EPH	110			11.6	22.5	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
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D = Dilution

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Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-15		SDG No.:	P4839	
Lab Sample ID:	P4839-07		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FC067774.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		26.3	E	0.46	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		38.7	E	0.29	0.80	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		2.39		0.36	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.97	U	0.97	1.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		3.38		2.17	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		35.9		40 - 140	72%	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:	P4839-07	Acq On:	15 Nov 2024 13:59
Client Sample ID:	EX-9-TPH-15	Operator:	YP/AJ
Data file:	FC067774.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	147756085	888.966		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	5217523	35.94		ug/ml
Aliphatic C9-C12	3.172	6.448	54227598	327.083	300	ug/ml
Aliphatic C12-C16	6.449	9.838	82040890	481.505	200	ug/ml
Aliphatic C16-C21	9.839	13.196	5039189	29.708	300	ug/ml
Aliphatic C21-C28	13.197	16.850	1355767	8.62	400	ug/ml
Aliphatic C28-C40	16.851	21.693	5092641	42.049	600	ug/ml
Aliphatic C9-C28	3.172	16.850	142663444	846.916	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067774.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:59
Operator : YP/AJ
Sample : P4839-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15

Integration File: autoint1.e
Quant Time: Nov 16 08:21:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.929	5217523	35.943 ug/ml
Spiked Amount 50.000		Recovery = 71.89%	
Target Compounds			

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

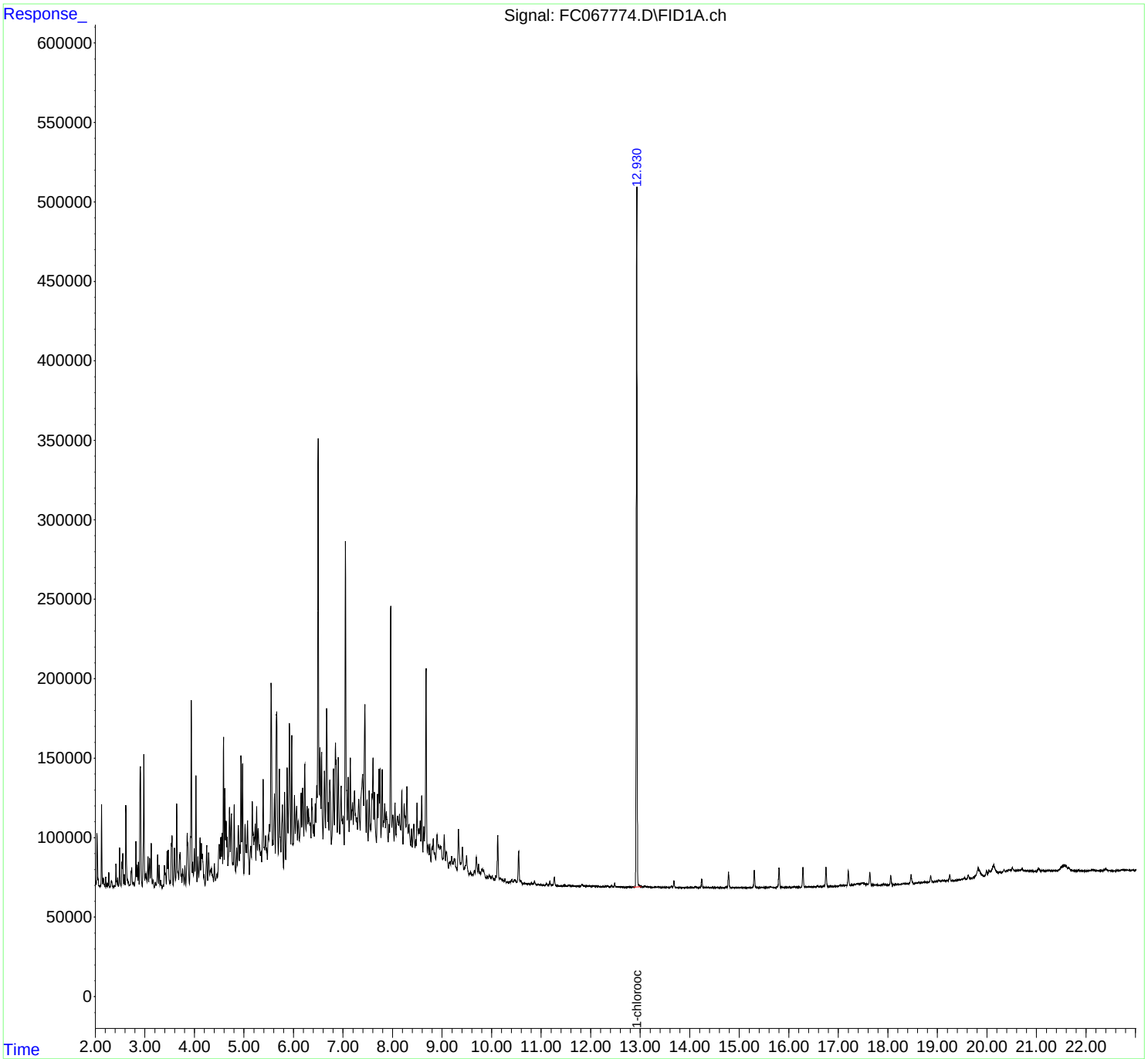
Quantitation Report (QT Reviewed)

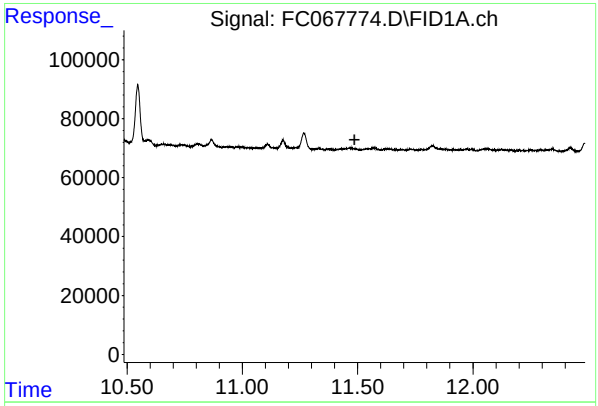
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067774.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:59
Operator : YP/AJ
Sample : P4839-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15

Integration File: autoint1.e
Quant Time: Nov 16 08:21:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

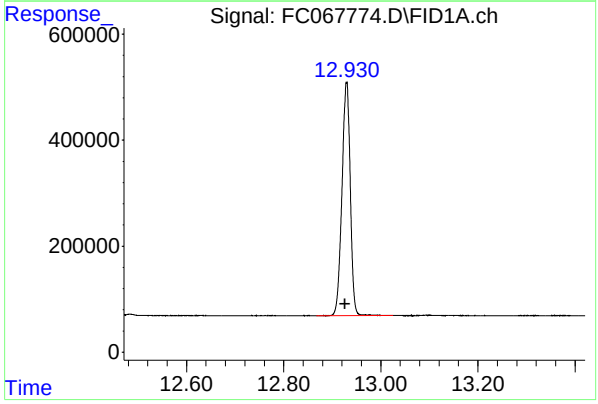




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.004 min
Response: 5217523
Conc: 35.94 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067774.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:59
Sample : P4839-07
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.289	3.254	3.305	BV	6838	-45519	-0.86%	-0.030%
2	3.317	3.305	3.348	PV	3341	32662	0.62%	0.021%
3	3.395	3.348	3.431	PV	14046	261083	4.93%	0.171%
4	3.448	3.431	3.459	VV	22833	219648	4.15%	0.143%
5	3.471	3.459	3.500	VV	23694	295230	5.58%	0.193%
6	3.548	3.500	3.569	VV	32703	596003	11.27%	0.389%
7	3.596	3.569	3.618	VV	24804	356642	6.74%	0.233%
8	3.642	3.618	3.682	VV	52646	694728	13.13%	0.454%
9	3.711	3.682	3.747	VV	22249	492122	9.30%	0.321%
10	3.762	3.747	3.794	VV	12226	193649	3.66%	0.126%
11	3.808	3.794	3.825	VV	13803	131909	2.49%	0.086%
12	3.854	3.825	3.898	VV	34093	700351	13.24%	0.457%
13	3.937	3.898	3.956	VV	117339	1435948	27.14%	0.938%
14	3.964	3.956	3.980	VV	16031	176571	3.34%	0.115%
15	3.996	3.980	4.012	VV	24506	290610	5.49%	0.190%
16	4.031	4.012	4.052	VV	70445	717157	13.56%	0.468%
17	4.070	4.052	4.087	VV	19357	243006	4.59%	0.159%
18	4.113	4.087	4.126	VV	31604	404307	7.64%	0.264%
19	4.140	4.126	4.152	VV	27867	316546	5.98%	0.207%
20	4.159	4.152	4.215	VV	21283	416202	7.87%	0.272%
21	4.247	4.215	4.266	VV	26713	366879	6.93%	0.240%
22	4.287	4.266	4.309	VV	22071	339456	6.42%	0.222%
23	4.324	4.309	4.333	VV	11081	144365	2.73%	0.094%
24	4.344	4.333	4.385	VV	12306	262183	4.96%	0.171%
25	4.402	4.385	4.426	VV	15175	216068	4.08%	0.141%
26	4.452	4.426	4.465	VV	8571	155151	2.93%	0.101%
27	4.500	4.465	4.516	VV	27233	579010	10.94%	0.378%
28	4.532	4.516	4.544	VV	31636	418209	7.90%	0.273%
29	4.557	4.544	4.570	VV	34405	412720	7.80%	0.270%
30	4.587	4.570	4.602	VV	94865	956846	18.09%	0.625%
31	4.616	4.602	4.630	VV	62749	698624	13.20%	0.456%
32	4.641	4.630	4.677	VV	41965	850177	16.07%	0.555%
33	4.708	4.677	4.726	VV	50377	904406	17.09%	0.591%
34	4.745	4.726	4.783	VV	46303	942888	17.82%	0.616%
35	4.803	4.783	4.830	VV	51815	709004	13.40%	0.463%
36	4.853	4.830	4.867	VV	24999	382274	7.23%	0.250%

rteres

37	4.887	4.867	4.906	VV	38968	664474	12.56%	0.434%
38	4.941	4.906	4.956	VV	83034	1217000	23.00%	0.795%
39	4.972	4.956	4.998	VV	77575	957278	18.09%	0.625%
40	5.023	4.998	5.039	VV	39690	626997	11.85%	0.410%
41	5.048	5.039	5.056	VV	27251	258824	4.89%	0.169%
42	5.072	5.056	5.110	VV	42329	800201	15.12%	0.523%
43	5.137	5.110	5.150	VV	26331	489416	9.25%	0.320%
44	5.169	5.150	5.198	VV	54521	1040233	19.66%	0.679%
45	5.226	5.198	5.240	VV	39514	789194	14.92%	0.516%
46	5.256	5.240	5.272	VV	51062	656997	12.42%	0.429%
47	5.287	5.272	5.308	VV	36963	662889	12.53%	0.433%
48	5.317	5.308	5.332	VV	27147	357573	6.76%	0.234%
49	5.344	5.332	5.357	VV	22379	305199	5.77%	0.199%
50	5.388	5.357	5.416	VV	68224	1271284	24.03%	0.830%
51	5.438	5.416	5.474	VV	32903	890987	16.84%	0.582%
52	5.512	5.474	5.524	VV	39819	955316	18.06%	0.624%
53	5.550	5.524	5.589	VV	126818	2476731	46.81%	1.618%
54	5.615	5.589	5.633	VV	59093	1080872	20.43%	0.706%
55	5.660	5.633	5.694	VV	110652	2346584	44.35%	1.533%
56	5.715	5.694	5.747	VV	74302	1287972	24.34%	0.841%
57	5.776	5.747	5.799	VV	51740	1067773	20.18%	0.697%
58	5.821	5.799	5.843	VV	60132	875934	16.56%	0.572%
59	5.872	5.843	5.890	VV	75300	1285861	24.30%	0.840%
60	5.919	5.890	5.945	VV	103532	2092244	39.55%	1.367%
61	5.965	5.945	5.998	VV	95443	1523768	28.80%	0.995%
62	6.020	5.998	6.037	VV	57807	1010975	19.11%	0.660%
63	6.064	6.037	6.081	VV	51482	1118680	21.14%	0.731%
64	6.096	6.081	6.119	VV	42088	823116	15.56%	0.538%
65	6.154	6.119	6.168	VV	59469	1282722	24.25%	0.838%
66	6.184	6.168	6.209	VV	62379	1206331	22.80%	0.788%
67	6.228	6.209	6.253	VV	77363	1416532	26.77%	0.925%
68	6.276	6.253	6.291	VV	51200	1024543	19.37%	0.669%
69	6.302	6.291	6.352	VV	49603	1542847	29.16%	1.008%
70	6.369	6.352	6.397	VV	55915	1202197	22.72%	0.785%
71	6.407	6.397	6.420	VV	39767	513967	9.71%	0.336%
72	6.440	6.420	6.452	VV	52470	836972	15.82%	0.547%
73	6.498	6.452	6.521	VV	282200	4565501	86.29%	2.982%
74	6.535	6.521	6.553	VV	88031	1337646	25.28%	0.874%
75	6.568	6.553	6.596	VV	85033	1432768	27.08%	0.936%
76	6.626	6.596	6.646	VV	73254	1573113	29.73%	1.028%
77	6.671	6.646	6.695	VV	112211	2119406	40.06%	1.384%
78	6.704	6.695	6.716	VV	53719	594342	11.23%	0.388%
79	6.733	6.716	6.765	VV	66659	1461216	27.62%	0.954%
80	6.806	6.765	6.825	VV	74262	1692736	31.99%	1.106%
81	6.848	6.825	6.885	VV	90883	2329579	44.03%	1.522%
82	6.905	6.885	6.934	VV	81959	1554085	29.37%	1.015%
83	6.961	6.934	6.990	VV	63854	1592974	30.11%	1.041%
84	7.003	6.990	7.024	VV	44747	776289	14.67%	0.507%
85	7.050	7.024	7.086	VV	217890	3470127	65.59%	2.267%
86	7.104	7.086	7.124	VV	69203	1175512	22.22%	0.768%
87	7.148	7.124	7.166	VV	81483	1405690	26.57%	0.918%
88	7.192	7.166	7.208	VV	53372	1206240	22.80%	0.788%
89	7.232	7.208	7.266	VV	61310	1746128	33.00%	1.141%

90	7.274	7.266	7.293	VV	43934	679589	12.85%	0.444%
91	7.319	7.293	7.348	VV	55632	1483078	28.03%	0.969%
92	7.394	7.348	7.416	VV	70898	2448690	46.28%	1.600%
93	7.442	7.416	7.468	VV	115342	2350739	44.43%	1.536%
94	7.484	7.468	7.506	VV	55022	971260	18.36%	0.634%
95	7.529	7.506	7.548	VV	60950	1107152	20.93%	0.723%
96	7.606	7.548	7.622	VV	82307	2411737	45.59%	1.575%
97	7.635	7.622	7.674	VV	60209	1348644	25.49%	0.881%
98	7.696	7.674	7.708	VV	58633	923266	17.45%	0.603%
99	7.725	7.708	7.737	VV	74775	1044878	19.75%	0.683%
100	7.748	7.737	7.767	VV	74824	1011697	19.12%	0.661%
101	7.791	7.767	7.811	VV	73837	1346424	25.45%	0.880%
102	7.843	7.811	7.859	VV	52640	1268044	23.97%	0.828%
103	7.875	7.859	7.912	VV	47874	1272370	24.05%	0.831%
104	7.930	7.912	7.939	VV	39361	577604	10.92%	0.377%
105	7.962	7.939	7.987	VV	176924	2506600	47.38%	1.637%
106	8.007	7.987	8.032	VV	45727	1086252	20.53%	0.710%
107	8.050	8.032	8.069	VV	53020	928746	17.55%	0.607%
108	8.102	8.069	8.124	VV	45030	1344551	25.41%	0.878%
109	8.140	8.124	8.167	VV	46188	1034581	19.55%	0.676%
110	8.188	8.167	8.211	VV	61149	1161034	21.95%	0.758%
111	8.235	8.211	8.269	VV	52755	1456295	27.53%	0.951%
112	8.291	8.269	8.315	VV	63606	1336171	25.26%	0.873%
113	8.333	8.315	8.365	VV	39843	1022771	19.33%	0.668%
114	8.385	8.365	8.402	VV	37104	678965	12.83%	0.444%
115	8.430	8.402	8.454	VV	39816	1036020	19.58%	0.677%
116	8.467	8.454	8.476	VV	30046	367171	6.94%	0.240%
117	8.495	8.476	8.520	VV	52960	1042282	19.70%	0.681%
118	8.531	8.520	8.541	VV	36797	437560	8.27%	0.286%
119	8.558	8.541	8.572	VV	41915	692894	13.10%	0.453%
120	8.590	8.572	8.612	VV	57629	974950	18.43%	0.637%
121	8.630	8.612	8.643	VV	38441	594296	11.23%	0.388%
122	8.677	8.643	8.703	VV	136684	2245350	42.44%	1.467%
123	8.719	8.703	8.737	VV	27037	503779	9.52%	0.329%
124	8.752	8.737	8.775	VV	27435	502860	9.50%	0.328%
125	8.799	8.775	8.806	VV	25498	412160	7.79%	0.269%
126	8.822	8.806	8.871	VV	30963	917208	17.34%	0.599%
127	8.899	8.871	8.920	VV	33242	781262	14.77%	0.510%
128	8.933	8.920	8.954	VV	26829	532252	10.06%	0.348%
129	8.979	8.954	9.014	VV	25939	828201	15.65%	0.541%
130	9.044	9.014	9.067	VV	33290	744527	14.07%	0.486%
131	9.085	9.067	9.131	VV	22637	708427	13.39%	0.463%
132	9.157	9.131	9.174	VV	16371	394863	7.46%	0.258%
133	9.194	9.174	9.212	VV	19733	387010	7.31%	0.253%
134	9.221	9.212	9.228	VV	15962	154317	2.92%	0.101%
135	9.243	9.228	9.301	VV	18234	665294	12.57%	0.435%
136	9.332	9.301	9.371	VV	36680	908896	17.18%	0.594%
137	9.378	9.371	9.386	VV	15639	139204	2.63%	0.091%
138	9.412	9.386	9.439	VV	25512	586021	11.08%	0.383%
139	9.495	9.439	9.541	VV	20223	818492	15.47%	0.535%
140	9.574	9.541	9.627	VV	9694	447780	8.46%	0.292%
141	9.651	9.627	9.667	VV	10728	231177	4.37%	0.151%

142	9.693	9.667	9.722	VV	19277	457061	8.64%	0.299%
143	9.737	9.722	9.757	VV	14862	253633	4.79%	0.166%
144	9.768	9.757	9.781	VV	9988	132382	2.50%	0.086%
145	9.807	9.781	9.829	VV	11802	309071	5.84%	0.202%
146	9.840	9.829	9.888	VV	11303	308244	5.83%	0.201%
147	9.910	9.888	9.929	VV	7276	166363	3.14%	0.109%
148	9.950	9.929	9.991	VV	7894	250112	4.73%	0.163%
149	10.013	9.991	10.062	VV	7619	255773	4.83%	0.167%
150	10.085	10.062	10.098	VV	7783	140193	2.65%	0.092%
151	10.124	10.098	10.158	VV	32865	573993	10.85%	0.375%
152	10.168	10.158	10.217	VV	6146	197819	3.74%	0.129%
153	10.227	10.217	10.250	VV	5058	91866	1.74%	0.060%
154	10.271	10.250	10.296	VV	5767	125416	2.37%	0.082%
155	10.313	10.296	10.345	VV	3658	100846	1.91%	0.066%
156	10.371	10.345	10.382	VV	3905	81556	1.54%	0.053%
157	10.407	10.382	10.434	VV	5211	132017	2.50%	0.086%
158	10.472	10.434	10.509	VV	5158	197597	3.73%	0.129%
159	10.547	10.509	10.578	VV	23054	416538	7.87%	0.272%
160	10.593	10.578	10.628	VV	4383	107895	2.04%	0.070%
161	10.658	10.628	10.718	VV	2925	141277	2.67%	0.092%
162	10.735	10.718	10.774	VV	2664	82594	1.56%	0.054%
163	10.805	10.774	10.832	VV	2924	88504	1.67%	0.058%
164	10.866	10.832	10.912	VV	4374	132991	2.51%	0.087%
165	10.931	10.912	10.941	VV	1982	32518	0.61%	0.021%
166	10.949	10.941	10.965	VV	1960	27417	0.52%	0.018%
167	10.980	10.965	11.077	VV	2058	115116	2.18%	0.075%
168	11.109	11.077	11.147	VV	2833	83285	1.57%	0.054%
169	11.176	11.147	11.209	VV	4281	91557	1.73%	0.060%
170	11.267	11.209	11.307	VV	6704	162936	3.08%	0.106%
171	11.330	11.307	11.355	VV	1369	35507	0.67%	0.023%
172	11.373	11.355	11.394	VV	1172	26576	0.50%	0.017%
173	11.473	11.394	11.510	VV	1580	87694	1.66%	0.057%
174	11.570	11.510	11.604	VV	1551	70637	1.34%	0.046%
175	11.631	11.604	11.675	VV	1423	47887	0.91%	0.031%
176	11.693	11.675	11.708	VV	1024	19422	0.37%	0.013%
177	11.729	11.708	11.758	VV	1133	29873	0.56%	0.020%
178	11.825	11.758	11.869	VV	2296	92180	1.74%	0.060%
179	11.883	11.869	11.901	VV	1155	21089	0.40%	0.014%
180	11.972	11.901	11.988	VV	1197	53387	1.01%	0.035%
181	11.997	11.988	12.016	VV	1067	15996	0.30%	0.010%
182	12.051	12.016	12.100	VV	1322	52650	1.00%	0.034%
183	12.124	12.100	12.186	VV	1155	46543	0.88%	0.030%
184	12.217	12.186	12.237	VV	810	22948	0.43%	0.015%
185	12.252	12.237	12.277	VV	917	19612	0.37%	0.013%
186	12.292	12.277	12.307	VV	966	15029	0.28%	0.010%
187	12.345	12.307	12.374	VV	1290	35219	0.67%	0.023%
188	12.423	12.374	12.458	VV	1697	42533	0.80%	0.028%
189	12.484	12.458	12.586	VV	3231	75704	1.43%	0.049%
190	12.598	12.586	12.615	VV	568	9154	0.17%	0.006%
191	12.630	12.615	12.684	VV	687	17979	0.34%	0.012%
192	12.743	12.684	12.789	VV	584	26139	0.49%	0.017%
193	12.810	12.789	12.828	VV	446	8427	0.16%	0.006%
194	12.845	12.828	12.871	VV	539	11003	0.21%	0.007%

195	12.929	12.871	13.073	VV	444454	5290635	100.00%	3.456%
196	13.095	13.073	13.192	VV	1263	51578	0.97%	0.034%
197	13.197	13.192	13.277	VV	473	20843	0.39%	0.014%
198	13.316	13.277	13.343	VV	572	18813	0.36%	0.012%
199	13.367	13.343	13.464	VV	590	27024	0.51%	0.018%
200	13.488	13.464	13.514	VV	344	8823	0.17%	0.006%
201	13.539	13.514	13.574	VV	389	10709	0.20%	0.007%
202	13.628	13.574	13.652	VV	1184	22631	0.43%	0.015%
203	13.680	13.652	13.726	VV	4521	65605	1.24%	0.043%
204	13.739	13.726	13.748	VV	270	2987	0.06%	0.002%
205	13.757	13.748	13.801	VV	220	5114	0.10%	0.003%
206	13.810	13.801	13.824	VV	132	1361	0.03%	0.001%
207	13.841	13.824	13.888	VV	175	5004	0.09%	0.003%
208	13.907	13.888	13.940	VV	266	6948	0.13%	0.005%
209	13.949	13.940	14.002	VV	216	6323	0.12%	0.004%
210	14.016	14.002	14.090	VV	184	8217	0.16%	0.005%
211	14.116	14.090	14.151	VV	1052	18510	0.35%	0.012%
212	14.154	14.151	14.198	VV	253	3425	0.06%	0.002%
213	14.241	14.198	14.294	VV	5576	81637	1.54%	0.053%
214	14.339	14.294	14.398	VV	445	14039	0.27%	0.009%
215	14.413	14.398	14.496	VV	298	11639	0.22%	0.008%
216	14.507	14.496	14.531	VV	228	3702	0.07%	0.002%
217	14.539	14.531	14.549	VV	252	2247	0.04%	0.001%
218	14.558	14.549	14.568	VV	289	2481	0.05%	0.002%
219	14.586	14.568	14.624	VV	305	6862	0.13%	0.004%
220	14.630	14.624	14.687	VV	158	2993	0.06%	0.002%
221	14.737	14.687	14.753	VV	867	13142	0.25%	0.009%
222	14.781	14.753	14.878	VV	9932	144051	2.72%	0.094%
223	14.889	14.878	14.898	VV	125	1128	0.02%	0.001%
224	14.905	14.898	14.920	VV	93	860	0.02%	0.001%
225	14.957	14.920	15.031	VV	155	6569	0.12%	0.004%
226	15.044	15.031	15.061	VV	150	1146	0.02%	0.001%
227	15.115	15.061	15.171	PV	232	6817	0.13%	0.004%
228	15.205	15.171	15.231	VV	221	5122	0.10%	0.003%
229	15.247	15.231	15.261	VV	228	2424	0.05%	0.002%
230	15.300	15.261	15.395	VV	11028	157650	2.98%	0.103%
231	15.414	15.395	15.432	VV	183	2351	0.04%	0.002%
232	15.443	15.432	15.459	VV	197	2114	0.04%	0.001%
233	15.487	15.459	15.501	VV	164	3412	0.06%	0.002%
234	15.505	15.501	15.568	VV	265	4767	0.09%	0.003%
235	15.585	15.568	15.600	VV	266	3765	0.07%	0.002%
236	15.623	15.600	15.649	VV	619	10634	0.20%	0.007%
237	15.664	15.649	15.721	VV	299	6009	0.11%	0.004%
238	15.761	15.721	15.772	PV	599	7954	0.15%	0.005%
239	15.801	15.772	15.878	VV	12441	180815	3.42%	0.118%
240	15.943	15.878	15.957	VV	183	4827	0.09%	0.003%
241	15.986	15.957	16.035	VV	220	6260	0.12%	0.004%
242	16.048	16.035	16.068	VV	129	1589	0.03%	0.001%
243	16.110	16.068	16.134	VV	469	9624	0.18%	0.006%
244	16.160	16.134	16.226	VV	344	8758	0.17%	0.006%
245	16.283	16.226	16.378	PV	12482	181910	3.44%	0.119%
246	16.411	16.378	16.437	VV	197	4558	0.09%	0.003%

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247	16.448	16.437	16.473	VV	150	2855	0.05%	0.002%
248	16.489	16.473	16.543	VV	198	4283	0.08%	0.003%
249	16.583	16.543	16.606	VV	736	12025	0.23%	0.008%
250	16.637	16.606	16.654	VV	417	7746	0.15%	0.005%
251	16.660	16.654	16.684	VV	272	3424	0.06%	0.002%
252	16.749	16.684	16.811	VV	12429	182799	3.46%	0.119%
253	16.825	16.811	16.838	VV	192	2096	0.04%	0.001%
254	16.850	16.838	16.901	VV	230	4346	0.08%	0.003%
255	16.911	16.901	16.937	VV	95	1215	0.02%	0.001%
256	16.983	16.937	17.001	PV	257	5706	0.11%	0.004%
257	17.038	17.001	17.059	VV	766	16405	0.31%	0.011%
258	17.087	17.059	17.114	VV	585	16091	0.30%	0.011%
259	17.135	17.114	17.151	VV	548	10056	0.19%	0.007%
260	17.199	17.151	17.267	VV	9766	167374	3.16%	0.109%
261	17.305	17.267	17.314	VV	914	20898	0.40%	0.014%
262	17.397	17.314	17.444	VV	1332	86694	1.64%	0.057%
263	17.482	17.444	17.566	VV	1883	97049	1.83%	0.063%
264	17.634	17.566	17.716	VV	8325	162251	3.07%	0.106%
265	17.756	17.716	17.840	VV	421	19126	0.36%	0.012%
266	17.913	17.840	17.935	VV	606	16443	0.31%	0.011%
267	17.954	17.935	17.984	VV	358	6378	0.12%	0.004%
268	18.057	17.984	18.114	PV	5931	89952	1.70%	0.059%
269	18.134	18.114	18.151	PV	95	1106	0.02%	0.001%
270	18.208	18.151	18.240	PV	234	5367	0.10%	0.004%
271	18.321	18.240	18.350	VV	625	15346	0.29%	0.010%
272	18.363	18.350	18.404	VV	310	5310	0.10%	0.003%
273	18.467	18.404	18.531	PV	5681	98600	1.86%	0.064%
274	18.608	18.531	18.618	VV	337	7180	0.14%	0.005%
275	18.635	18.618	18.688	VV	236	6769	0.13%	0.004%
276	18.724	18.688	18.748	VV	492	10823	0.20%	0.007%
277	18.763	18.748	18.787	VV	395	7235	0.14%	0.005%
278	18.863	18.787	18.924	VV	4071	79422	1.50%	0.052%
279	19.039	18.924	19.081	VV	910	42805	0.81%	0.028%
280	19.114	19.081	19.138	VV	506	13793	0.26%	0.009%
281	19.151	19.138	19.188	VV	482	10660	0.20%	0.007%
282	19.195	19.188	19.205	VV	246	2538	0.05%	0.002%
283	19.248	19.205	19.316	VV	3878	70318	1.33%	0.046%
284	19.442	19.316	19.450	PV	301	13546	0.26%	0.009%
285	19.549	19.450	19.581	VV	1240	51228	0.97%	0.033%
286	19.623	19.581	19.654	VV	2998	60416	1.14%	0.039%
287	19.676	19.654	19.699	VV	977	22978	0.43%	0.015%
288	19.825	19.699	19.945	VV	6524	441148	8.34%	0.288%
289	19.988	19.945	20.014	VV	4587	124417	2.35%	0.081%
290	20.042	20.014	20.071	VV	4815	139275	2.63%	0.091%
291	20.133	20.071	20.232	VV	7611	498422	9.42%	0.326%
292	20.257	20.232	20.280	VV	3214	89306	1.69%	0.058%
293	20.343	20.280	20.381	VV	4805	218492	4.13%	0.143%
294	20.447	20.381	20.470	VV	4122	206819	3.91%	0.135%
295	20.514	20.470	20.567	VV	5312	249405	4.71%	0.163%
296	20.577	20.567	20.585	VV	3676	39069	0.74%	0.026%
297	20.619	20.585	20.644	VV	3604	125669	2.38%	0.082%
298	20.710	20.644	20.768	VV	4455	265698	5.02%	0.174%
299	20.769	20.768	20.793	VV	3057	43619	0.82%	0.028%

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300	20.820	20.793	20.835	VV	2840	70901	1.34%	0.046%
301	20.869	20.835	20.898	VV	2747	100058	1.89%	0.065%
302	20.900	20.898	20.943	VV	2591	66069	1.25%	0.043%
303	20.955	20.943	20.967	VV	2300	31465	0.59%	0.021%
304	21.038	20.967	21.094	VV	3516	198532	3.75%	0.130%
305	21.126	21.094	21.183	VV	2454	114004	2.15%	0.074%
306	21.260	21.183	21.291	VV	2068	127206	2.40%	0.083%
307	21.316	21.291	21.378	VV	1882	90949	1.72%	0.059%
308	21.581	21.378	21.634	VV	4600	472407	8.93%	0.309%
309	21.647	21.634	21.808	VV	2795	138633	2.62%	0.091%
310	21.851	21.808	21.874	VV	641	21994	0.42%	0.014%
311	21.894	21.874	21.941	VV	546	14500	0.27%	0.009%
312	21.980	21.941	22.028	VV	212	5513	0.10%	0.004%

Sum of corrected areas: 153088732

Aliphatic EPH 111424.M Sat Nov 16 09:58:54 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-15		SDG No.:	P4839	
Lab Sample ID:	P4839-07		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FD048743.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.12		0.36	0.80	mg/kg
Aromatic C12-C16	Aromatic C12-C16	16.5		0.41	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	6.62		1.16	2.01	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.41	U	2.41	3.22	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	45.0		40 - 140	90%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.8		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.1		40 - 140	64%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-07	Acq On:	15 Nov 2024 13:59
Client Sample ID:	EX-9-TPH-15	Operator:	YP/AJ
Data file:	FD048743.D	Misc:	
Instrument:	FID_D	ALS Vial:	64
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	14628220	76.182	200	ug/ml
Aromatic C12-C16	5.806	8.411	39420408	204.825	300	ug/ml
Aromatic C16-C21	8.412	12.674	15304167	82.367	500	ug/ml
Aromatic C21-C36	12.675	18.081	3805481	24.203	800	ug/ml
Aromatic EPH	4.088	18.081	73158276	387.577		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	6178132	32.12		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	7931480	45.05		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5042707	43.78		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048743.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:59
Operator : YP/AJ
Sample : P4839-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15

Integration File: sample.E
Quant Time: Nov 16 09:50:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	7931480	45.050 ug/ml
Spiked Amount 50.000		Recovery =	90.10%
6) S 2-Flurobiphenyl (SURR)	8.217	5042707	43.785 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	87.57%
11) S ortho-Terphenyl (SURR)	11.253	6178132	32.122 ug/ml
Spiked Amount 50.000		Recovery =	64.24%
Target Compounds			

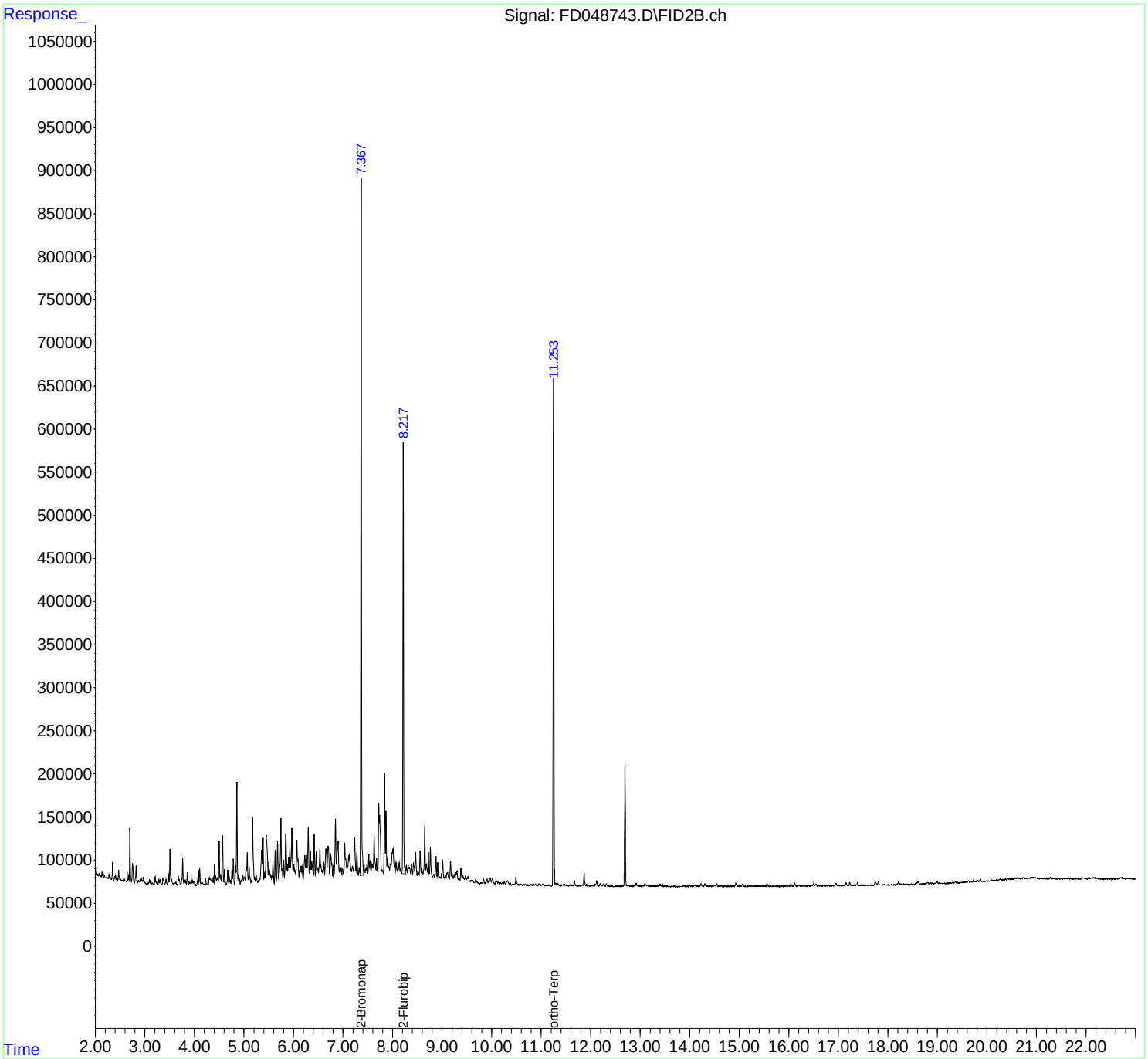
(f)=RT Delta > 1/2 Window (m)=manual int.

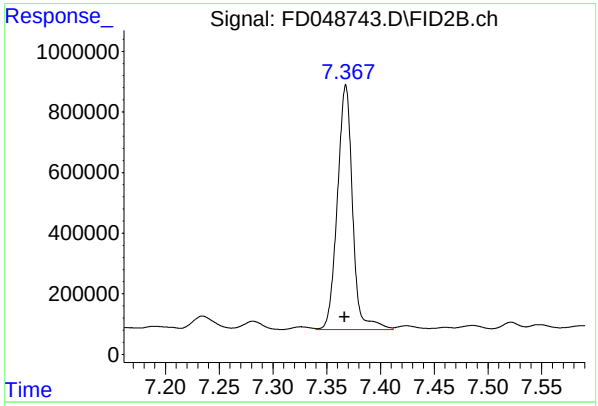
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048743.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:59
Operator : YP/AJ
Sample : P4839-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15

Integration File: sample.E
Quant Time: Nov 16 09:50:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

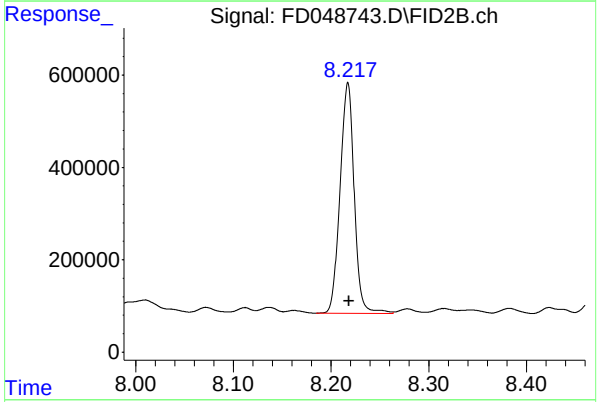




#4 2-Bromonaphthalene (SURR)

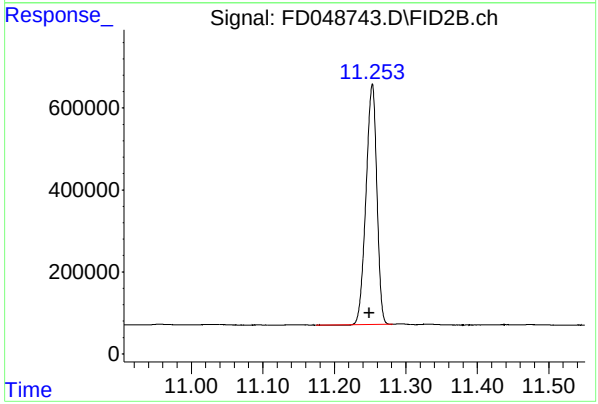
R.T.: 7.368 min
Delta R.T.: 0.001 min
Response: 7931480
Conc: 45.05 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.001 min
Response: 5042707
Conc: 43.78 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: 0.004 min
Response: 6178132
Conc: 32.12 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048743.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:59
Sample : P4839-07
Misc :
ALS Vial : 64 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.079	4.042	4.092	PV	15304	161932	1.92%	0.173%
2	4.106	4.092	4.129	PV	17845	152219	1.81%	0.162%
3	4.160	4.129	4.179	PV	2213	30315	0.36%	0.032%
4	4.191	4.179	4.205	VV	797	6536	0.08%	0.007%
5	4.226	4.205	4.253	PV	6979	67063	0.80%	0.072%
6	4.270	4.253	4.282	PV	1586	14587	0.17%	0.016%
7	4.298	4.282	4.312	VV	8710	102119	1.21%	0.109%
8	4.321	4.312	4.335	VV	7350	88202	1.05%	0.094%
9	4.342	4.335	4.363	VV	5592	76506	0.91%	0.082%
10	4.379	4.363	4.392	VV	8704	97654	1.16%	0.104%
11	4.407	4.392	4.420	VV	23971	216198	2.57%	0.231%
12	4.428	4.420	4.446	VV	11404	127297	1.51%	0.136%
13	4.460	4.446	4.484	VV	8121	152061	1.80%	0.162%
14	4.500	4.484	4.517	VV	50234	469642	5.57%	0.501%
15	4.526	4.517	4.541	VV	11914	129221	1.53%	0.138%
16	4.568	4.541	4.592	VV	57348	760349	9.02%	0.811%
17	4.609	4.592	4.641	VV	18340	217780	2.58%	0.232%
18	4.674	4.641	4.689	VV	17467	189408	2.25%	0.202%
19	4.701	4.689	4.718	VV	8996	105372	1.25%	0.112%
20	4.728	4.718	4.740	VV	5334	53399	0.63%	0.057%
21	4.758	4.740	4.770	VV	19590	195552	2.32%	0.209%
22	4.786	4.770	4.812	VV	30503	333511	3.96%	0.356%
23	4.832	4.812	4.841	VV	22736	214269	2.54%	0.229%
24	4.857	4.841	4.879	VV	119528	1172812	13.92%	1.251%
25	4.888	4.879	4.901	VV	10608	114771	1.36%	0.122%
26	4.909	4.901	4.924	VV	7262	68872	0.82%	0.073%
27	4.944	4.924	4.957	VV	5894	80615	0.96%	0.086%
28	4.976	4.957	4.990	VV	10992	152402	1.81%	0.163%
29	5.004	4.990	5.022	VV	9433	154251	1.83%	0.165%
30	5.044	5.022	5.054	VV	21948	278333	3.30%	0.297%
31	5.067	5.054	5.084	VV	37792	402689	4.78%	0.430%
32	5.105	5.084	5.118	VV	18127	236462	2.81%	0.252%
33	5.123	5.118	5.137	VV	9001	75257	0.89%	0.080%
34	5.147	5.137	5.155	VV	4729	42202	0.50%	0.045%
35	5.174	5.155	5.210	VV	78377	1026049	12.18%	1.095%
36	5.219	5.210	5.232	VV	9202	95112	1.13%	0.101%

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37	5.247	5.232	5.282	VV	11434	202484	2.40%	0.216%
38	5.297	5.282	5.308	VV	5779	74570	0.88%	0.080%
39	5.321	5.308	5.325	VV	7493	59325	0.70%	0.063%
40	5.357	5.325	5.375	VV	40949	791424	9.39%	0.844%
41	5.387	5.375	5.405	VV	54623	552347	6.55%	0.589%
42	5.422	5.405	5.433	VV	14826	195485	2.32%	0.209%
43	5.449	5.433	5.489	VV	57868	1208216	14.34%	1.289%
44	5.501	5.489	5.515	VV	28694	300277	3.56%	0.320%
45	5.522	5.515	5.534	VV	15118	153046	1.82%	0.163%
46	5.542	5.534	5.553	VV	11806	116808	1.39%	0.125%
47	5.562	5.553	5.569	VV	9965	88281	1.05%	0.094%
48	5.585	5.569	5.610	VV	25176	345601	4.10%	0.369%
49	5.630	5.610	5.653	VV	40684	439194	5.21%	0.469%
50	5.679	5.653	5.698	VV	50674	654195	7.76%	0.698%
51	5.747	5.698	5.764	VV	77792	1216838	14.44%	1.298%
52	5.770	5.764	5.785	VV	20215	193867	2.30%	0.207%
53	5.800	5.785	5.816	VV	29657	337175	4.00%	0.360%
54	5.844	5.816	5.873	VV	60113	1141817	13.55%	1.218%
55	5.884	5.873	5.891	VV	23425	226183	2.68%	0.241%
56	5.904	5.891	5.914	VV	33016	368316	4.37%	0.393%
57	5.927	5.914	5.941	VV	46207	511563	6.07%	0.546%
58	5.968	5.941	5.993	VV	66237	1084357	12.87%	1.157%
59	6.007	5.993	6.020	VV	24355	325182	3.86%	0.347%
60	6.027	6.020	6.043	VV	17744	222756	2.64%	0.238%
61	6.068	6.043	6.084	VV	52635	761920	9.04%	0.813%
62	6.090	6.084	6.111	VV	30009	357962	4.25%	0.382%
63	6.140	6.111	6.155	VV	22327	454271	5.39%	0.485%
64	6.168	6.155	6.196	VV	22187	376792	4.47%	0.402%
65	6.229	6.196	6.245	VV	34695	666456	7.91%	0.711%
66	6.261	6.245	6.277	VV	34827	529447	6.28%	0.565%
67	6.299	6.277	6.319	VV	67120	991650	11.77%	1.058%
68	6.341	6.319	6.357	VV	39696	611371	7.25%	0.652%
69	6.369	6.357	6.379	VV	27876	308804	3.66%	0.329%
70	6.389	6.379	6.402	VV	25584	293776	3.49%	0.313%
71	6.418	6.402	6.440	VV	58696	723042	8.58%	0.771%
72	6.458	6.440	6.475	VV	38895	516180	6.13%	0.551%
73	6.494	6.475	6.506	VV	20483	333597	3.96%	0.356%
74	6.534	6.506	6.550	VV	43538	728566	8.65%	0.777%
75	6.555	6.550	6.572	VV	22869	260475	3.09%	0.278%
76	6.584	6.572	6.598	VV	17143	247087	2.93%	0.264%
77	6.614	6.598	6.631	VV	25891	388257	4.61%	0.414%
78	6.654	6.631	6.679	VV	42409	905190	10.74%	0.966%
79	6.700	6.679	6.731	VV	45657	1029093	12.21%	1.098%
80	6.755	6.731	6.771	VV	35545	631111	7.49%	0.673%
81	6.775	6.771	6.792	VV	25936	253073	3.00%	0.270%
82	6.807	6.792	6.822	VV	23301	325692	3.86%	0.347%
83	6.848	6.822	6.867	VV	77365	1128618	13.39%	1.204%
84	6.902	6.867	6.921	VV	51077	1154696	13.70%	1.232%
85	6.940	6.921	6.954	VV	22038	385493	4.57%	0.411%
86	6.963	6.954	6.977	VV	19741	244339	2.90%	0.261%
87	6.995	6.977	7.013	VV	18616	342967	4.07%	0.366%
88	7.036	7.013	7.084	VV	49527	1202755	14.27%	1.283%
89	7.114	7.084	7.123	VV	35164	621340	7.37%	0.663%

90	7.134	7.123	7.175	VV	37234	793816	9.42%	0.847%
91	7.190	7.175	7.214	VV	22486	459005	5.45%	0.490%
92	7.235	7.214	7.262	VV	56390	976659	11.59%	1.042%
93	7.282	7.262	7.309	VV	39302	668894	7.94%	0.714%
94	7.326	7.309	7.341	VV	20751	332822	3.95%	0.355%
95	7.368	7.341	7.411	VV	821093	8426966	100.00%	8.991%
96	7.424	7.411	7.445	VV	24214	404941	4.81%	0.432%
97	7.460	7.445	7.469	VV	19426	243152	2.89%	0.259%
98	7.486	7.469	7.503	VV	25297	429593	5.10%	0.458%
99	7.522	7.503	7.536	VV	36051	492015	5.84%	0.525%
100	7.548	7.536	7.568	VV	28007	450674	5.35%	0.481%
101	7.588	7.568	7.599	VV	24460	398076	4.72%	0.425%
102	7.604	7.599	7.609	VV	22169	141955	1.68%	0.151%
103	7.629	7.609	7.664	VV	59017	1124173	13.34%	1.199%
104	7.678	7.664	7.703	VV	31936	522415	6.20%	0.557%
105	7.724	7.703	7.733	VV	95746	1028710	12.21%	1.098%
106	7.740	7.733	7.783	VV	81594	1482253	17.59%	1.581%
107	7.795	7.783	7.815	VV	17805	313342	3.72%	0.334%
108	7.841	7.815	7.856	VV	130245	1516993	18.00%	1.618%
109	7.868	7.856	7.888	VV	86637	1014275	12.04%	1.082%
110	7.902	7.888	7.941	VV	32814	778361	9.24%	0.830%
111	7.957	7.941	7.971	VV	25663	420937	5.00%	0.449%
112	8.010	7.971	8.055	VV	42923	1513696	17.96%	1.615%
113	8.072	8.055	8.094	VV	26872	488993	5.80%	0.522%
114	8.112	8.094	8.123	VV	26240	373341	4.43%	0.398%
115	8.137	8.123	8.152	VV	26874	389927	4.63%	0.416%
116	8.162	8.152	8.184	VV	20035	335650	3.98%	0.358%
117	8.217	8.184	8.264	VV	513276	5707424	67.73%	6.089%
118	8.278	8.264	8.295	VV	23623	370291	4.39%	0.395%
119	8.316	8.295	8.330	VV	24278	431837	5.12%	0.461%
120	8.342	8.330	8.365	VV	21122	397888	4.72%	0.425%
121	8.383	8.365	8.406	VV	24793	471530	5.60%	0.503%
122	8.423	8.406	8.450	VV	26448	537970	6.38%	0.574%
123	8.466	8.450	8.497	VV	38544	673728	7.99%	0.719%
124	8.511	8.497	8.524	VV	16704	238138	2.83%	0.254%
125	8.533	8.524	8.539	VV	14845	129106	1.53%	0.138%
126	8.557	8.539	8.577	VV	40716	604884	7.18%	0.645%
127	8.590	8.577	8.616	VV	20791	398467	4.73%	0.425%
128	8.651	8.616	8.669	VV	70343	1026024	12.18%	1.095%
129	8.683	8.669	8.708	VV	25006	480246	5.70%	0.512%
130	8.724	8.708	8.742	VV	39026	507127	6.02%	0.541%
131	8.765	8.742	8.809	VV	44712	863952	10.25%	0.922%
132	8.834	8.809	8.851	VV	13359	293740	3.49%	0.313%
133	8.878	8.851	8.897	VV	34237	535068	6.35%	0.571%
134	8.912	8.897	8.930	VV	27014	357853	4.25%	0.382%
135	8.938	8.930	8.953	VV	11307	140604	1.67%	0.150%
136	8.960	8.953	8.975	VV	10230	131794	1.56%	0.141%
137	9.013	8.975	9.038	VV	30333	628575	7.46%	0.671%
138	9.044	9.038	9.050	VV	9884	67463	0.80%	0.072%
139	9.068	9.050	9.081	VV	11705	200627	2.38%	0.214%
140	9.111	9.081	9.147	VV	15079	474469	5.63%	0.506%
141	9.172	9.147	9.191	VV	28748	456539	5.42%	0.487%

142	9.203	9.191	9.225	VV	14698	245516	2.91%	0.262%
143	9.245	9.225	9.262	VV	13309	243302	2.89%	0.260%
144	9.280	9.262	9.290	VV	15575	213296	2.53%	0.228%
145	9.301	9.290	9.325	VV	17461	263511	3.13%	0.281%
146	9.340	9.325	9.362	VV	9136	179433	2.13%	0.191%
147	9.380	9.362	9.405	VV	20366	333488	3.96%	0.356%
148	9.420	9.405	9.452	VV	11620	274366	3.26%	0.293%
149	9.471	9.452	9.488	VV	11520	198358	2.35%	0.212%
150	9.504	9.488	9.510	VV	8380	104320	1.24%	0.111%
151	9.524	9.510	9.562	VV	10908	253279	3.01%	0.270%
152	9.617	9.562	9.645	VV	6752	289664	3.44%	0.309%
153	9.683	9.645	9.730	VV	7955	257873	3.06%	0.275%
154	9.741	9.730	9.766	VV	3908	71596	0.85%	0.076%
155	9.785	9.766	9.812	VV	3832	93359	1.11%	0.100%
156	9.839	9.812	9.860	VV	8004	144274	1.71%	0.154%
157	9.908	9.860	9.928	VV	8023	213132	2.53%	0.227%
158	9.942	9.928	9.951	VV	6132	72836	0.86%	0.078%
159	9.971	9.951	9.995	VV	8849	181219	2.15%	0.193%
160	10.015	9.995	10.068	VV	8327	222177	2.64%	0.237%
161	10.090	10.068	10.126	VV	7070	174351	2.07%	0.186%
162	10.142	10.126	10.167	VV	4590	94091	1.12%	0.100%
163	10.183	10.167	10.200	VV	3954	66471	0.79%	0.071%
164	10.219	10.200	10.242	VV	3893	83368	0.99%	0.089%
165	10.258	10.242	10.284	VV	5126	90719	1.08%	0.097%
166	10.307	10.284	10.312	VV	5326	67804	0.80%	0.072%
167	10.325	10.312	10.358	VV	6213	123398	1.46%	0.132%
168	10.381	10.358	10.407	VV	3565	73658	0.87%	0.079%
169	10.431	10.407	10.435	VV	2148	26654	0.32%	0.028%
170	10.442	10.435	10.458	VV	2301	28283	0.34%	0.030%
171	10.490	10.458	10.542	VV	10362	203993	2.42%	0.218%
172	10.554	10.542	10.567	VV	1690	23076	0.27%	0.025%
173	10.584	10.567	10.612	VV	2839	54100	0.64%	0.058%
174	10.617	10.612	10.632	VV	1492	16001	0.19%	0.017%
175	10.667	10.632	10.673	VV	1960	38814	0.46%	0.041%
176	10.676	10.673	10.694	VV	1862	20522	0.24%	0.022%
177	10.711	10.694	10.747	VV	1646	38572	0.46%	0.041%
178	10.760	10.747	10.775	VV	1157	17392	0.21%	0.019%
179	10.802	10.775	10.822	VV	2334	44573	0.53%	0.048%
180	10.837	10.822	10.850	VV	1627	22592	0.27%	0.024%
181	10.860	10.850	10.870	VV	1650	17997	0.21%	0.019%
182	10.887	10.870	10.908	VV	2672	43617	0.52%	0.047%
183	10.929	10.908	10.940	VV	1273	21707	0.26%	0.023%
184	10.955	10.940	10.992	VV	2704	54612	0.65%	0.058%
185	11.035	10.992	11.068	VV	2226	69055	0.82%	0.074%
186	11.071	11.068	11.081	VV	764	5781	0.07%	0.006%
187	11.095	11.081	11.117	VV	1020	16310	0.19%	0.017%
188	11.145	11.117	11.166	VV	1497	28511	0.34%	0.030%
189	11.177	11.166	11.206	VV	880	15693	0.19%	0.017%
190	11.253	11.206	11.281	VV	590021	6269958	74.40%	6.689%
191	11.293	11.281	11.314	VV	3782	55528	0.66%	0.059%
192	11.332	11.314	11.370	VV	2909	63415	0.75%	0.068%
193	11.373	11.370	11.393	VV	920	13017	0.15%	0.014%
194	11.438	11.393	11.457	VV	1727	51818	0.61%	0.055%

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195	11.474	11.457	11.527	VV	2003	49658	0.59%	0.053%
196	11.541	11.527	11.557	VV	949	13891	0.16%	0.015%
197	11.593	11.557	11.621	VV	1829	50335	0.60%	0.054%
198	11.632	11.621	11.649	VV	1257	18732	0.22%	0.020%
199	11.672	11.649	11.733	VV	6483	100065	1.19%	0.107%
200	11.750	11.733	11.768	VV	718	13616	0.16%	0.015%
201	11.776	11.768	11.795	VV	797	11922	0.14%	0.013%
202	11.833	11.795	11.848	VV	1848	41974	0.50%	0.045%
203	11.868	11.848	11.938	VV	14655	207791	2.47%	0.222%
204	11.949	11.938	12.003	VV	1078	32576	0.39%	0.035%
205	12.032	12.003	12.063	VV	1276	33680	0.40%	0.036%
206	12.089	12.063	12.100	VV	1827	28789	0.34%	0.031%
207	12.121	12.100	12.170	VV	6209	99900	1.19%	0.107%
208	12.192	12.170	12.232	VV	3299	62729	0.74%	0.067%
209	12.254	12.232	12.282	VV	2722	46402	0.55%	0.050%
210	12.319	12.282	12.384	VV	3149	64844	0.77%	0.069%
211	12.394	12.384	12.409	VV	343	3772	0.04%	0.004%
212	12.427	12.409	12.470	VV	396	6274	0.07%	0.007%
213	12.523	12.470	12.567	PV	672	22612	0.27%	0.024%
214	12.576	12.567	12.592	VV	477	5877	0.07%	0.006%
215	12.620	12.592	12.643	VV	1010	21862	0.26%	0.023%
216	12.693	12.643	12.725	VV	142472	1666410	19.77%	1.778%
217	12.739	12.725	12.816	VV	1208	40952	0.49%	0.044%
218	12.828	12.816	12.841	VV	515	6335	0.08%	0.007%
219	12.918	12.841	12.978	VV	4153	98356	1.17%	0.105%
220	12.991	12.978	13.003	VV	646	8674	0.10%	0.009%
221	13.010	13.003	13.031	VV	683	8361	0.10%	0.009%
222	13.095	13.031	13.172	VV	3736	106611	1.27%	0.114%
223	13.193	13.172	13.222	VV	644	15711	0.19%	0.017%
224	13.234	13.222	13.253	VV	597	9161	0.11%	0.010%
225	13.267	13.253	13.277	VV	541	6666	0.08%	0.007%
226	13.298	13.277	13.307	VV	637	10163	0.12%	0.011%
227	13.317	13.307	13.331	VV	699	8038	0.10%	0.009%
228	13.400	13.331	13.425	VV	3055	66657	0.79%	0.071%
229	13.447	13.425	13.477	VV	2263	35968	0.43%	0.038%
230	13.487	13.477	13.519	VV	549	10757	0.13%	0.011%
231	13.532	13.519	13.562	VV	412	7804	0.09%	0.008%
232	13.571	13.562	13.592	VV	345	3964	0.05%	0.004%
233	13.596	13.592	13.629	VV	198	2679	0.03%	0.003%
234	13.666	13.629	13.680	VV	424	7555	0.09%	0.008%
235	13.701	13.680	13.714	VV	473	5988	0.07%	0.006%
236	13.725	13.714	13.753	VV	192	3842	0.05%	0.004%
237	13.812	13.753	13.832	PV	332	9156	0.11%	0.010%
238	13.881	13.832	13.912	VV	1134	26079	0.31%	0.028%
239	13.917	13.912	13.958	VV	535	10226	0.12%	0.011%
240	13.966	13.958	13.983	VV	532	6241	0.07%	0.007%
241	14.006	13.983	14.042	VV	1849	29013	0.34%	0.031%
242	14.052	14.042	14.062	VV	557	5206	0.06%	0.006%
243	14.090	14.062	14.161	VV	1220	46329	0.55%	0.049%
244	14.172	14.161	14.197	VV	551	9524	0.11%	0.010%
245	14.224	14.197	14.274	VV	2814	53924	0.64%	0.058%
246	14.302	14.274	14.335	VV	3255	51663	0.61%	0.055%

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247	14.347	14.335	14.372	VV	726	11617	0.14%	0.012%
248	14.391	14.372	14.408	VV	466	8144	0.10%	0.009%
249	14.413	14.408	14.458	VV	570	10824	0.13%	0.012%
250	14.469	14.458	14.478	VV	622	5475	0.06%	0.006%
251	14.504	14.478	14.523	VV	1900	31251	0.37%	0.033%
252	14.543	14.523	14.576	VV	3243	48806	0.58%	0.052%
253	14.590	14.576	14.606	VV	460	6589	0.08%	0.007%
254	14.636	14.606	14.674	VV	1113	22611	0.27%	0.024%
255	14.718	14.674	14.742	VV	975	18676	0.22%	0.020%
256	14.748	14.742	14.763	VV	320	3270	0.04%	0.003%
257	14.771	14.763	14.779	VV	378	2823	0.03%	0.003%
258	14.787	14.779	14.811	VV	468	5149	0.06%	0.005%
259	14.823	14.811	14.838	VV	309	3886	0.05%	0.004%
260	14.851	14.838	14.870	VV	391	3538	0.04%	0.004%
261	14.928	14.870	15.013	VV	3322	89773	1.07%	0.096%
262	15.018	15.013	15.038	VV	607	5860	0.07%	0.006%
263	15.064	15.038	15.100	VV	3028	53663	0.64%	0.057%
264	15.111	15.100	15.140	VV	271	3837	0.05%	0.004%
265	15.199	15.140	15.218	PV	578	14531	0.17%	0.016%
266	15.225	15.218	15.235	VV	482	4024	0.05%	0.004%
267	15.261	15.235	15.304	VV	1106	24773	0.29%	0.026%
268	15.323	15.304	15.335	VV	492	6721	0.08%	0.007%
269	15.349	15.335	15.362	VV	494	6046	0.07%	0.006%
270	15.403	15.362	15.413	VV	625	15808	0.19%	0.017%
271	15.428	15.413	15.443	VV	593	9801	0.12%	0.010%
272	15.450	15.443	15.460	VV	518	4883	0.06%	0.005%
273	15.471	15.460	15.493	VV	502	8105	0.10%	0.009%
274	15.521	15.493	15.536	VV	859	16360	0.19%	0.017%
275	15.559	15.536	15.595	VV	3731	55129	0.65%	0.059%
276	15.610	15.595	15.642	VV	535	9489	0.11%	0.010%
277	15.647	15.642	15.662	VV	390	2894	0.03%	0.003%
278	15.679	15.662	15.687	VV	286	3764	0.04%	0.004%
279	15.693	15.687	15.710	VV	403	3944	0.05%	0.004%
280	15.716	15.710	15.728	VV	320	2825	0.03%	0.003%
281	15.737	15.728	15.775	VV	346	7448	0.09%	0.008%
282	15.804	15.775	15.850	VV	417	10960	0.13%	0.012%
283	15.869	15.850	15.898	VV	352	7336	0.09%	0.008%
284	15.934	15.898	15.980	PV	818	19308	0.23%	0.021%
285	16.005	15.980	16.017	VV	480	7331	0.09%	0.008%
286	16.039	16.017	16.077	VV	3006	47128	0.56%	0.050%
287	16.116	16.077	16.163	VV	3883	63077	0.75%	0.067%
288	16.191	16.163	16.209	VV	800	16832	0.20%	0.018%
289	16.217	16.209	16.227	VV	620	5516	0.07%	0.006%
290	16.233	16.227	16.272	VV	577	11179	0.13%	0.012%
291	16.291	16.272	16.305	VV	393	5648	0.07%	0.006%
292	16.331	16.305	16.365	VV	653	11669	0.14%	0.012%
293	16.417	16.365	16.448	VV	627	17267	0.20%	0.018%
294	16.469	16.448	16.480	VV	925	12160	0.14%	0.013%
295	16.504	16.480	16.527	VV	3740	53248	0.63%	0.057%
296	16.546	16.527	16.595	VV	2395	37195	0.44%	0.040%
297	16.609	16.595	16.640	VV	405	5477	0.06%	0.006%
298	16.696	16.640	16.727	VV	382	12165	0.14%	0.013%
299	16.741	16.727	16.760	VV	146	2734	0.03%	0.003%

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300	16.782	16.760	16.798	VV	408	4576	0.05%	0.005%
301	16.807	16.798	16.823	VV	305	4004	0.05%	0.004%
302	16.828	16.823	16.850	VV	447	3615	0.04%	0.004%
303	16.878	16.850	16.905	VV	544	12436	0.15%	0.013%
304	16.951	16.905	17.008	VV	3074	53466	0.63%	0.057%
305	17.021	17.008	17.045	VV	409	6422	0.08%	0.007%
306	17.068	17.045	17.106	VV	657	13944	0.17%	0.015%
307	17.115	17.106	17.128	VV	309	2547	0.03%	0.003%
308	17.156	17.128	17.199	VV	3559	56087	0.67%	0.060%
309	17.227	17.199	17.255	VV	3991	56992	0.68%	0.061%
310	17.265	17.255	17.293	VV	494	8164	0.10%	0.009%
311	17.304	17.293	17.313	VV	489	4669	0.06%	0.005%
312	17.329	17.313	17.336	VV	615	6400	0.08%	0.007%
313	17.386	17.336	17.412	VV	3639	63429	0.75%	0.068%
314	17.423	17.412	17.441	VV	497	6871	0.08%	0.007%
315	17.472	17.441	17.495	VV	759	14922	0.18%	0.016%
316	17.504	17.495	17.535	VV	444	7656	0.09%	0.008%
317	17.551	17.535	17.570	VV	369	4514	0.05%	0.005%
318	17.599	17.570	17.630	VV	346	6493	0.08%	0.007%
319	17.681	17.630	17.702	PV	667	13988	0.17%	0.015%
320	17.745	17.702	17.783	VV	4178	95616	1.13%	0.102%
321	17.807	17.783	17.858	VV	3717	65546	0.78%	0.070%
322	17.899	17.858	17.918	VV	733	16896	0.20%	0.018%
323	17.927	17.918	17.968	VV	504	8043	0.10%	0.009%
324	17.984	17.968	17.995	VV	279	2866	0.03%	0.003%
325	18.003	17.995	18.038	VV	296	4845	0.06%	0.005%
326	18.071	18.038	18.085	VV	261	3894	0.05%	0.004%
327	18.094	18.085	18.106	PV	228	1571	0.02%	0.002%
328	18.125	18.106	18.133	PV	257	2115	0.03%	0.002%
329	18.141	18.133	18.152	VV	162	1040	0.01%	0.001%
			Sum of corrected areas:			93729277		

Aromatic EPH 111424.M Sat Nov 16 10:27:27 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-15		SDG No.:	P4839	
Lab Sample ID:	P4839-07		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FC067799.D	5	11/14/24	11/18/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		30.4		2.29	6.03	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		44.1		1.45	4.02	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		2.47	J	1.81	6.03	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		4.82	U	4.82	8.04	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		10.9	U	10.9	12.1	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		7.31		40 - 140	73%	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:	P4839-07DL	Acq On:	18 Nov 2024 09:25
Client Sample ID:	P4839-07DL	Operator:	YP/AJ
Data file:	FC067799.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	12531864	75.588	300	ug/ml
Aliphatic C12-C16	6.449	9.838	18705893	109.786	200	ug/ml
Aliphatic C16-C21	9.839	13.196	1044113	6.156	300	ug/ml
Aliphatic C21-C28	13.197	16.850	466624	2.967	400	ug/ml
Aliphatic C28-C40	16.851	21.691	690392	5.7	600	ug/ml
Aliphatic EPH	3.172	21.691	33438886	200.197		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.927	12.927	1060409	7.31		ug/ml
Aliphatic C9-C28	3.172	16.850	32748494	194.497	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067799.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 09:25
Operator : YP/AJ
Sample : P4839-07DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15DL

Integration File: sample.E
Quant Time: Nov 19 04:53:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.927	1060409	7.305 ug/ml
Spiked Amount 50.000		Recovery = 14.61%	
Target Compounds			

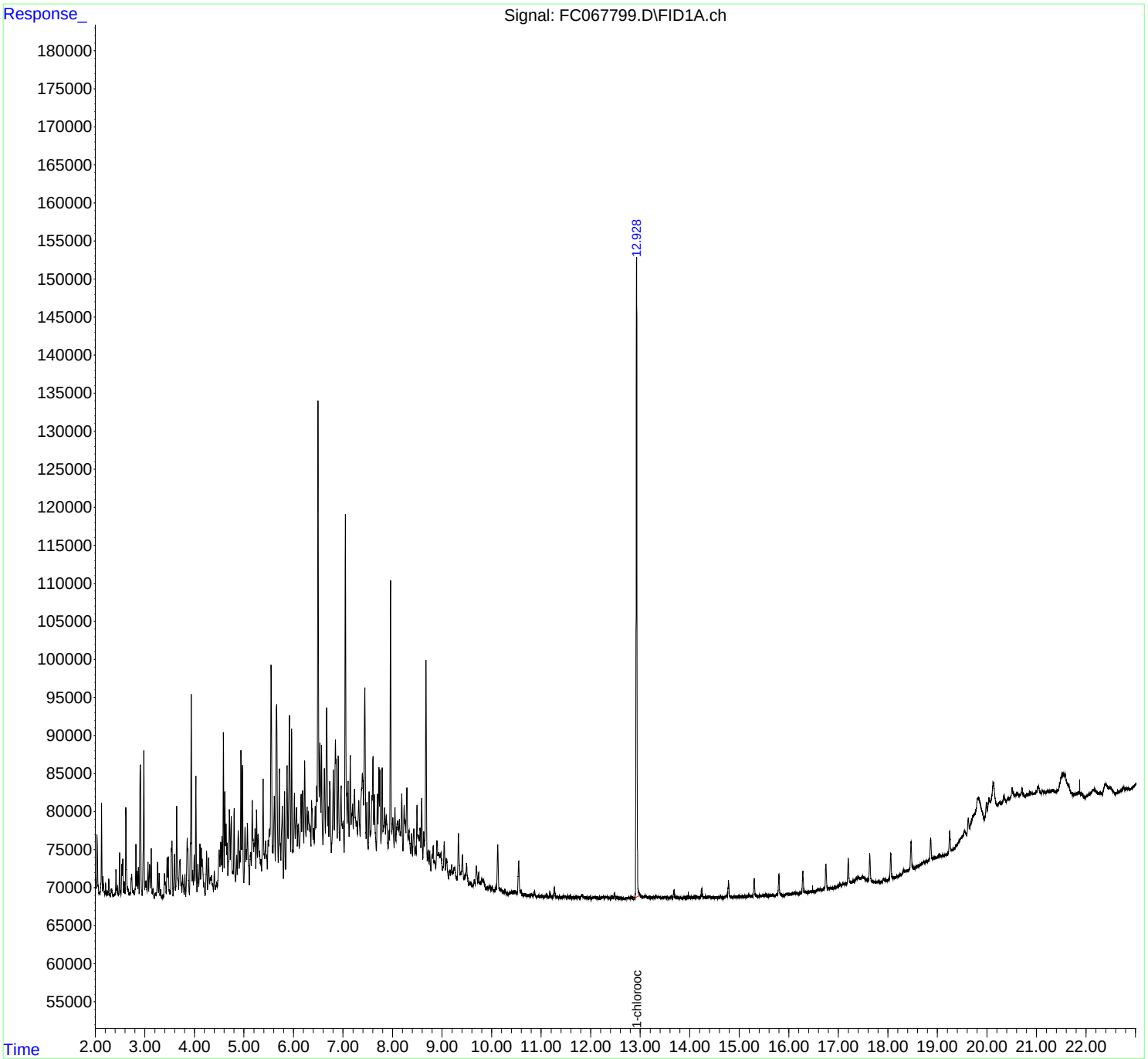
(f)=RT Delta > 1/2 Window (m)=manual int.

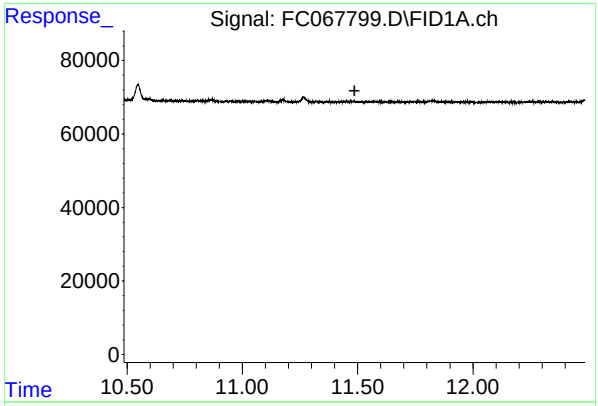
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067799.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 09:25
Operator : YP/AJ
Sample : P4839-07DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15DL

Integration File: sample.E
Quant Time: Nov 19 04:53:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

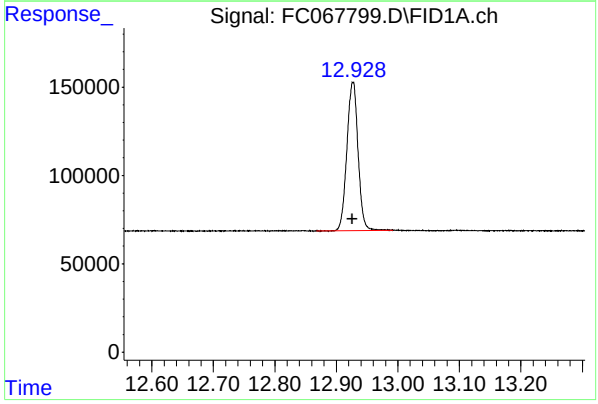




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15DL



#12 1-chlorooctadecane (SURR)

R.T.: 12.927 min
Delta R.T.: 0.001 min
Response: 1060409
Conc: 7.31 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067799.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 09:25
Sample : P4839-07DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.256	3.225	3.275	PV	4065	40455	3.69%	0.117%
2	3.289	3.275	3.305	PV	2641	20782	1.90%	0.060%
3	3.318	3.305	3.345	PV	749	7842	0.72%	0.023%
4	3.395	3.345	3.430	PV	3205	60656	5.53%	0.176%
5	3.448	3.430	3.458	VV	5225	51572	4.70%	0.149%
6	3.471	3.458	3.516	VV	5438	75805	6.91%	0.220%
7	3.547	3.516	3.569	VV	7573	128619	11.73%	0.372%
8	3.596	3.569	3.618	VV	5691	81863	7.47%	0.237%
9	3.642	3.618	3.681	VV	12076	162493	14.82%	0.471%
10	3.710	3.681	3.746	VV	5091	114076	10.41%	0.330%
11	3.761	3.746	3.791	VV	3001	46155	4.21%	0.134%
12	3.807	3.791	3.824	VV	3049	31027	2.83%	0.090%
13	3.854	3.824	3.898	VV	7749	161682	14.75%	0.468%
14	3.936	3.898	3.955	VV	26697	330013	30.10%	0.956%
15	3.963	3.955	3.981	VV	3626	43549	3.97%	0.126%
16	3.996	3.981	4.011	VV	5653	65432	5.97%	0.189%
17	4.030	4.011	4.051	VV	15937	164781	15.03%	0.477%
18	4.069	4.051	4.087	VV	4453	57451	5.24%	0.166%
19	4.112	4.087	4.126	VV	7152	93652	8.54%	0.271%
20	4.140	4.126	4.218	VV	6525	174006	15.87%	0.504%
21	4.247	4.218	4.266	VV	6169	85720	7.82%	0.248%
22	4.286	4.266	4.309	VV	5204	80828	7.37%	0.234%
23	4.322	4.309	4.335	VV	2730	37548	3.43%	0.109%
24	4.343	4.335	4.384	VV	2922	59923	5.47%	0.174%
25	4.402	4.384	4.425	VV	3579	51581	4.71%	0.149%
26	4.450	4.425	4.465	VV	2041	39822	3.63%	0.115%
27	4.499	4.465	4.515	VV	6250	134150	12.24%	0.388%
28	4.531	4.515	4.543	VV	7380	98304	8.97%	0.285%
29	4.557	4.543	4.569	VV	8118	94180	8.59%	0.273%
30	4.586	4.569	4.601	VV	21608	219360	20.01%	0.635%
31	4.615	4.601	4.629	VV	13987	161909	14.77%	0.469%
32	4.639	4.629	4.675	VV	9688	192417	17.55%	0.557%
33	4.707	4.675	4.725	VV	11428	207256	18.91%	0.600%
34	4.744	4.725	4.783	VV	10690	217686	19.86%	0.630%
35	4.802	4.783	4.831	VV	11854	164420	15.00%	0.476%
36	4.853	4.831	4.865	VV	5707	81811	7.46%	0.237%

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37	4.886	4.865	4.905	VV	8851	152367	13.90%	0.441%
38	4.916	4.905	4.922	VV	6160	54309	4.95%	0.157%
39	4.940	4.922	4.955	VV	19205	222299	20.28%	0.644%
40	4.971	4.955	4.997	VV	17496	221492	20.20%	0.641%
41	5.022	4.997	5.038	VV	9388	144594	13.19%	0.419%
42	5.047	5.038	5.055	VV	6372	59376	5.42%	0.172%
43	5.071	5.055	5.109	VV	9822	184064	16.79%	0.533%
44	5.136	5.109	5.149	VV	5935	112034	10.22%	0.324%
45	5.168	5.149	5.197	VV	12833	242389	22.11%	0.702%
46	5.224	5.197	5.239	VV	9152	178115	16.25%	0.516%
47	5.255	5.239	5.271	VV	11627	152770	13.94%	0.442%
48	5.286	5.271	5.331	VV	8435	232608	21.22%	0.674%
49	5.343	5.331	5.356	VV	5141	69930	6.38%	0.202%
50	5.387	5.356	5.415	VV	15672	289786	26.43%	0.839%
51	5.437	5.415	5.472	VV	7561	198163	18.08%	0.574%
52	5.489	5.472	5.496	VV	7632	92981	8.48%	0.269%
53	5.511	5.496	5.522	VV	8949	126557	11.54%	0.366%
54	5.549	5.522	5.588	VV	30532	569739	51.97%	1.650%
55	5.614	5.588	5.632	VV	13359	247272	22.56%	0.716%
56	5.658	5.632	5.693	VV	25405	538992	49.17%	1.561%
57	5.714	5.693	5.745	VV	16999	291070	26.55%	0.843%
58	5.774	5.745	5.798	VV	12126	246380	22.47%	0.713%
59	5.820	5.798	5.842	VV	13930	198299	18.09%	0.574%
60	5.871	5.842	5.889	VV	17377	295554	26.96%	0.856%
61	5.918	5.889	5.944	VV	23952	480411	43.82%	1.391%
62	5.963	5.944	5.994	VV	21981	339690	30.99%	0.984%
63	6.018	5.994	6.036	VV	13669	241379	22.02%	0.699%
64	6.062	6.036	6.079	VV	11950	257935	23.53%	0.747%
65	6.096	6.079	6.116	VV	9668	183740	16.76%	0.532%
66	6.153	6.116	6.167	VV	13711	299558	27.33%	0.867%
67	6.183	6.167	6.208	VV	14168	275437	25.13%	0.798%
68	6.227	6.208	6.252	VV	18073	323610	29.52%	0.937%
69	6.275	6.252	6.289	VV	11918	231551	21.12%	0.670%
70	6.302	6.289	6.329	VV	11411	240840	21.97%	0.697%
71	6.336	6.329	6.351	VV	9423	115168	10.51%	0.333%
72	6.368	6.351	6.395	VV	12761	274162	25.01%	0.794%
73	6.406	6.395	6.419	VV	9194	118906	10.85%	0.344%
74	6.439	6.419	6.451	VV	12142	189511	17.29%	0.549%
75	6.496	6.451	6.520	VV	64613	1051675	95.93%	3.045%
76	6.534	6.520	6.553	VV	20234	311725	28.44%	0.903%
77	6.567	6.553	6.595	VV	19987	325580	29.70%	0.943%
78	6.625	6.595	6.645	VV	16991	360148	32.85%	1.043%
79	6.670	6.645	6.694	VV	24726	490957	44.78%	1.422%
80	6.703	6.694	6.715	VV	11964	133157	12.15%	0.386%
81	6.733	6.715	6.764	VV	15377	335483	30.60%	0.971%
82	6.805	6.764	6.824	VV	16863	385483	35.16%	1.116%
83	6.847	6.824	6.884	VV	20791	535031	48.80%	1.549%
84	6.904	6.884	6.933	VV	18729	358783	32.73%	1.039%
85	6.961	6.933	6.991	VV	14799	371322	33.87%	1.075%
86	7.003	6.991	7.023	VV	10190	169522	15.46%	0.491%
87	7.048	7.023	7.085	VV	50536	799589	72.94%	2.315%
88	7.102	7.085	7.124	VV	15350	273499	24.95%	0.792%
89	7.147	7.124	7.165	VV	18660	323677	29.53%	0.937%

90	7.192	7.165	7.207	VV	12212	274344	25.03%	0.794%
91	7.233	7.207	7.266	VV	14389	402047	36.67%	1.164%
92	7.275	7.266	7.291	VV	10159	146594	13.37%	0.424%
93	7.319	7.291	7.345	VV	12834	334537	30.52%	0.969%
94	7.392	7.345	7.415	VV	16459	574829	52.44%	1.664%
95	7.440	7.415	7.467	VV	27727	554828	50.61%	1.607%
96	7.483	7.467	7.505	VV	12591	218864	19.96%	0.634%
97	7.528	7.505	7.561	VV	13806	325623	29.70%	0.943%
98	7.605	7.561	7.621	VV	18660	472386	43.09%	1.368%
99	7.633	7.621	7.672	VV	13578	304312	27.76%	0.881%
100	7.695	7.672	7.707	VV	13671	213303	19.46%	0.618%
101	7.724	7.707	7.736	VV	17182	236521	21.58%	0.685%
102	7.747	7.736	7.767	VV	16921	233287	21.28%	0.676%
103	7.791	7.767	7.811	VV	17013	309188	28.20%	0.895%
104	7.842	7.811	7.858	VV	11804	284095	25.91%	0.823%
105	7.874	7.858	7.911	VV	10823	287060	26.19%	0.831%
106	7.929	7.911	7.938	VV	8921	127219	11.60%	0.368%
107	7.960	7.938	7.986	VV	41286	580776	52.98%	1.682%
108	8.007	7.986	8.031	VV	10504	246690	22.50%	0.714%
109	8.050	8.031	8.068	VV	12001	207902	18.96%	0.602%
110	8.100	8.068	8.123	VV	10102	307911	28.09%	0.892%
111	8.138	8.123	8.167	VV	10329	238628	21.77%	0.691%
112	8.187	8.167	8.211	VV	13819	260634	23.77%	0.755%
113	8.234	8.211	8.268	VV	12073	328817	29.99%	0.952%
114	8.290	8.268	8.315	VV	14448	309743	28.25%	0.897%
115	8.333	8.315	8.365	VV	8981	231242	21.09%	0.670%
116	8.384	8.365	8.402	VV	8552	154990	14.14%	0.449%
117	8.430	8.402	8.453	VV	9164	231070	21.08%	0.669%
118	8.494	8.453	8.540	VV	12129	419712	38.29%	1.215%
119	8.558	8.540	8.572	VV	9149	159059	14.51%	0.461%
120	8.589	8.572	8.612	VV	13143	221401	20.20%	0.641%
121	8.630	8.612	8.643	VV	8642	133743	12.20%	0.387%
122	8.676	8.643	8.703	VV	31434	511361	46.65%	1.481%
123	8.718	8.703	8.737	VV	6211	114638	10.46%	0.332%
124	8.751	8.737	8.774	VV	6215	113493	10.35%	0.329%
125	8.821	8.774	8.848	VV	6870	237354	21.65%	0.687%
126	8.854	8.848	8.875	VV	4970	73069	6.67%	0.212%
127	8.898	8.875	8.919	VV	7523	166995	15.23%	0.484%
128	8.931	8.919	8.955	VV	6053	124303	11.34%	0.360%
129	8.980	8.955	9.009	VV	5998	167925	15.32%	0.486%
130	9.044	9.009	9.067	VV	7425	177376	16.18%	0.514%
131	9.086	9.067	9.129	VV	5135	155474	14.18%	0.450%
132	9.155	9.129	9.173	VV	3679	87599	7.99%	0.254%
133	9.193	9.173	9.227	VV	4361	120578	11.00%	0.349%
134	9.241	9.227	9.301	VV	4061	149908	13.67%	0.434%
135	9.331	9.301	9.368	VV	8404	195722	17.85%	0.567%
136	9.379	9.368	9.386	VV	3432	35600	3.25%	0.103%
137	9.412	9.386	9.438	VV	5701	128455	11.72%	0.372%
138	9.495	9.438	9.541	VV	4540	183661	16.75%	0.532%
139	9.574	9.541	9.625	VV	2173	95539	8.72%	0.277%
140	9.650	9.625	9.671	VV	2437	58021	5.29%	0.168%
141	9.693	9.671	9.722	VV	4331	95448	8.71%	0.276%

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142	9.738	9.722	9.780	VV	3307	84677	7.72%	0.245%
143	9.805	9.780	9.831	VV	2585	71711	6.54%	0.208%
144	9.840	9.831	9.891	VV	2400	64535	5.89%	0.187%
145	9.911	9.891	9.929	VV	1533	31817	2.90%	0.092%
146	9.948	9.929	9.991	VV	1665	53010	4.84%	0.153%
147	10.012	9.991	10.039	VV	1627	38421	3.50%	0.111%
148	10.050	10.039	10.065	VV	1140	17547	1.60%	0.051%
149	10.085	10.065	10.096	VV	1623	25857	2.36%	0.075%
150	10.125	10.096	10.218	VV	7099	169060	15.42%	0.490%
151	10.230	10.218	10.251	VV	1075	18651	1.70%	0.054%
152	10.271	10.251	10.301	VV	1233	26925	2.46%	0.078%
153	10.308	10.301	10.328	VV	748	10870	0.99%	0.031%
154	10.338	10.328	10.347	VV	700	7409	0.68%	0.021%
155	10.405	10.347	10.431	VV	1100	41004	3.74%	0.119%
156	10.474	10.431	10.515	VV	1025	43456	3.96%	0.126%
157	10.547	10.515	10.578	VV	4932	91134	8.31%	0.264%
158	10.591	10.578	10.631	VV	987	23510	2.14%	0.068%
159	10.656	10.631	10.721	VV	618	28796	2.63%	0.083%
160	10.737	10.721	10.774	VV	567	14553	1.33%	0.042%
161	10.807	10.774	10.835	VV	636	18002	1.64%	0.052%
162	10.867	10.835	10.918	VV	828	24726	2.26%	0.072%
163	10.954	10.918	10.991	VV	418	14268	1.30%	0.041%
164	11.001	10.991	11.022	VV	413	6170	0.56%	0.018%
165	11.040	11.022	11.086	VV	354	11322	1.03%	0.033%
166	11.110	11.086	11.151	VV	683	14609	1.33%	0.042%
167	11.176	11.151	11.233	VV	857	19023	1.74%	0.055%
168	11.267	11.233	11.310	VV	1515	27600	2.52%	0.080%
169	11.335	11.310	11.352	VV	331	6276	0.57%	0.018%
170	11.378	11.352	11.401	VV	295	5987	0.55%	0.017%
171	11.451	11.401	11.464	VV	364	8796	0.80%	0.025%
172	11.480	11.464	11.528	VV	363	9938	0.91%	0.029%
173	11.538	11.528	11.558	VV	277	4201	0.38%	0.012%
174	11.575	11.558	11.601	VV	361	6898	0.63%	0.020%
175	11.636	11.601	11.661	VV	260	7048	0.64%	0.020%
176	11.697	11.661	11.707	VV	245	5139	0.47%	0.015%
177	11.722	11.707	11.732	VV	249	3190	0.29%	0.009%
178	11.745	11.732	11.795	VV	289	8737	0.80%	0.025%
179	11.827	11.795	11.947	VV	507	24210	2.21%	0.070%
180	11.990	11.947	12.025	VV	268	7507	0.68%	0.022%
181	12.035	12.025	12.041	VV	178	1156	0.11%	0.003%
182	12.072	12.041	12.084	VV	263	5307	0.48%	0.015%
183	12.098	12.084	12.110	VV	257	3161	0.29%	0.009%
184	12.124	12.110	12.140	VV	265	3641	0.33%	0.011%
185	12.150	12.140	12.195	VV	154	4160	0.38%	0.012%
186	12.241	12.195	12.279	VV	267	9911	0.90%	0.029%
187	12.295	12.279	12.323	VV	289	5837	0.53%	0.017%
188	12.347	12.323	12.390	VV	307	6565	0.60%	0.019%
189	12.424	12.390	12.458	VV	395	8571	0.78%	0.025%
190	12.484	12.458	12.518	VV	700	11371	1.04%	0.033%
191	12.522	12.518	12.529	VV	221	1146	0.10%	0.003%
192	12.537	12.529	12.571	VV	163	3009	0.27%	0.009%
193	12.607	12.571	12.665	VV	194	5608	0.51%	0.016%
194	12.709	12.665	12.738	PV	151	3746	0.34%	0.011%

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195	12.845	12.738	12.887	VV	255	11781	1.07%	0.034%
196	12.927	12.887	13.072	VV	85204	1096264	100.00%	3.174%
197	13.095	13.072	13.141	VV	445	12209	1.11%	0.035%
198	13.181	13.141	13.192	VV	278	6732	0.61%	0.019%
199	13.217	13.192	13.253	VV	215	6484	0.59%	0.019%
200	13.269	13.253	13.279	VV	210	2761	0.25%	0.008%
201	13.340	13.279	13.376	VV	260	11494	1.05%	0.033%
202	13.390	13.376	13.430	VV	244	4743	0.43%	0.014%
203	13.445	13.430	13.469	VV	251	2882	0.26%	0.008%
204	13.484	13.469	13.525	VV	239	5719	0.52%	0.017%
205	13.542	13.525	13.574	VV	220	4439	0.40%	0.013%
206	13.587	13.574	13.603	VV	151	1945	0.18%	0.006%
207	13.629	13.603	13.654	VV	321	5860	0.53%	0.017%
208	13.681	13.654	13.859	VV	1103	25438	2.32%	0.074%
209	13.927	13.859	13.939	PV	182	5437	0.50%	0.016%
210	13.972	13.939	13.997	VV	433	5377	0.49%	0.016%
211	14.018	13.997	14.061	VV	246	5283	0.48%	0.015%
212	14.118	14.061	14.178	VV	306	11571	1.06%	0.034%
213	14.186	14.178	14.197	VV	149	968	0.09%	0.003%
214	14.242	14.197	14.278	VV	1176	18524	1.69%	0.054%
215	14.295	14.278	14.336	VV	162	4063	0.37%	0.012%
216	14.349	14.336	14.358	VV	173	1615	0.15%	0.005%
217	14.402	14.358	14.462	VV	198	7602	0.69%	0.022%
218	14.472	14.462	14.485	VV	136	1003	0.09%	0.003%
219	14.489	14.485	14.495	VV	111	429	0.04%	0.001%
220	14.502	14.495	14.552	VV	103	3033	0.28%	0.009%
221	14.591	14.552	14.603	VV	162	3256	0.30%	0.009%
222	14.626	14.603	14.643	PV	265	3750	0.34%	0.011%
223	14.735	14.643	14.751	VV	308	7533	0.69%	0.022%
224	14.781	14.751	14.865	VV	2183	34654	3.16%	0.100%
225	14.880	14.865	14.901	VV	131	1837	0.17%	0.005%
226	14.918	14.901	14.985	VV	161	3761	0.34%	0.011%
227	15.037	14.985	15.099	VV	149	6180	0.56%	0.018%
228	15.131	15.099	15.150	VV	160	2551	0.23%	0.007%
229	15.199	15.150	15.261	VV	239	8076	0.74%	0.023%
230	15.300	15.261	15.394	VV	2380	37850	3.45%	0.110%
231	15.428	15.394	15.448	VV	130	3286	0.30%	0.010%
232	15.489	15.448	15.511	VV	208	5172	0.47%	0.015%
233	15.537	15.511	15.562	VV	212	4064	0.37%	0.012%
234	15.582	15.562	15.648	PV	147	4635	0.42%	0.013%
235	15.669	15.648	15.728	VV	180	4453	0.41%	0.013%
236	15.800	15.728	15.871	VV	2621	42563	3.88%	0.123%
237	15.981	15.871	16.028	PV	166	5632	0.51%	0.016%
238	16.115	16.028	16.134	VV	195	5738	0.52%	0.017%
239	16.152	16.134	16.207	VV	181	4059	0.37%	0.012%
240	16.282	16.207	16.378	PV	2891	48342	4.41%	0.140%
241	16.480	16.378	16.529	PV	425	8436	0.77%	0.024%
242	16.582	16.529	16.611	VV	315	7570	0.69%	0.022%
243	16.635	16.611	16.680	VV	276	7536	0.69%	0.022%
244	16.747	16.680	16.814	VV	3354	61526	5.61%	0.178%
245	16.846	16.814	16.881	VV	275	7494	0.68%	0.022%
246	16.910	16.881	16.930	VV	209	4797	0.44%	0.014%

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247	17.034	16.930	17.068	VV	546	27875	2.54%	0.081%
248	17.126	17.068	17.145	VV	538	21704	1.98%	0.063%
249	17.198	17.145	17.257	VV	3782	81469	7.43%	0.236%
250	17.402	17.257	17.442	VV	1162	95110	8.68%	0.275%
251	17.479	17.442	17.592	VV	1138	75898	6.92%	0.220%
252	17.633	17.592	17.735	VV	3984	80315	7.33%	0.233%
253	17.795	17.735	17.846	VV	189	9261	0.84%	0.027%
254	17.912	17.846	17.938	PV	302	7824	0.71%	0.023%
255	18.056	17.938	18.106	VV	3413	49792	4.54%	0.144%
256	18.319	18.106	18.348	PV	401	7567	0.69%	0.022%
257	18.375	18.348	18.392	VV	278	5313	0.48%	0.015%
258	18.466	18.392	18.545	VV	3753	71575	6.53%	0.207%
259	18.583	18.545	18.595	VV	205	4853	0.44%	0.014%
260	18.722	18.595	18.743	VV	489	25650	2.34%	0.074%
261	18.862	18.743	18.924	VV	3145	83459	7.61%	0.242%
262	19.036	18.924	19.075	VV	572	30978	2.83%	0.090%
263	19.109	19.075	19.131	VV	319	6952	0.63%	0.020%

Sum of corrected areas: 34535144

Aliphatic EPH 111424.M Tue Nov 19 05:28:15 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-16			SDG No.:	P4839
Lab Sample ID:	P4839-08			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.7
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 16:26	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.32		1	0.45	1.19	mg/kg	FC067778.D
Aliphatic C12-C16	Aliphatic C12-C16	7.44		1	0.29	0.79	mg/kg	FC067778.D
Aliphatic C16-C21	Aliphatic C16-C21	0.93	J	1	0.36	1.19	mg/kg	FC067778.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	1.59	mg/kg	FC067778.D
Aliphatic C28-C40	Aliphatic C28-C40	2.71		1	2.14	2.38	mg/kg	FC067778.D
Aromatic C10-C12	Aromatic C10-C12	3.48		1	0.36	0.79	mg/kg	FD048747.D
Aromatic C12-C16	Aromatic C12-C16	3.44		1	0.41	1.19	mg/kg	FD048747.D
Aromatic C16-C21	Aromatic C16-C21	1.82	J	1	1.14	1.99	mg/kg	FD048747.D
Aromatic C21-C36	Aromatic C21-C36	2.38	U	1	2.38	3.18	mg/kg	FD048747.D
Total AliphaticEPH	Total AliphaticEPH	17.4			4.19	7.14	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.74			4.28	7.15	mg/kg	
Total EPH	Total EPH	26.1			8.47	14.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-16			SDG No.:	P4839
Lab Sample ID:	P4839-08			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.7
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 16:26	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.32		1	0.45	1.19	mg/kg	FC067778.D
Aliphatic C12-C16	Aliphatic C12-C16	7.44		1	0.29	0.79	mg/kg	FC067778.D
Aliphatic C16-C21	Aliphatic C16-C21	0.93	J	1	0.36	1.19	mg/kg	FC067778.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	1.59	mg/kg	FC067778.D
Aliphatic C28-C40	Aliphatic C28-C40	2.71		1	2.14	2.38	mg/kg	FC067778.D
Aromatic C10-C12	Aromatic C10-C12	3.48		1	0.36	0.79	mg/kg	FD048747.D
Aromatic C12-C16	Aromatic C12-C16	3.44		1	0.41	1.19	mg/kg	FD048747.D
Aromatic C16-C21	Aromatic C16-C21	1.82	J	1	1.14	1.99	mg/kg	FD048747.D
Aromatic C21-C36	Aromatic C21-C36	2.38	U	1	2.38	3.18	mg/kg	FD048747.D
Total AliphaticEPH	Total AliphaticEPH	17.4			4.19	7.14	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.74			4.28	7.15	mg/kg	
Total EPH	Total EPH	26.1			8.47	14.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-16		SDG No.:	P4839	
Lab Sample ID:	P4839-08		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.7	
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
FC067778.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.32		0.45	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.44		0.29	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.93	J	0.36	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	0.95	1.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.71		2.14	2.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.9		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-08	Acq On:	15 Nov 2024 16:26
Client Sample ID:	EX-9-TPH-16	Operator:	YP/AJ
Data file:	FC067778.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	35989687	223.625		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4637222	31.95		ug/ml
Aliphatic C9-C12	3.172	6.448	13202933	79.636	300	ug/ml
Aliphatic C12-C16	6.449	9.838	15968600	93.721	200	ug/ml
Aliphatic C16-C21	9.839	13.196	1992333	11.746	300	ug/ml
Aliphatic C21-C28	13.197	16.850	697152	4.433	400	ug/ml
Aliphatic C28-C40	16.851	21.693	4128669	34.09	600	ug/ml
Aliphatic C9-C28	3.172	16.850	31861018	189.536	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067778.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 16:26
Operator : YP/AJ
Sample : P4839-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-16

Integration File: autoint1.e
Quant Time: Nov 16 08:23:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.929	4637222	31.945 ug/ml
Spiked Amount 50.000		Recovery = 63.89%	
Target Compounds			

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

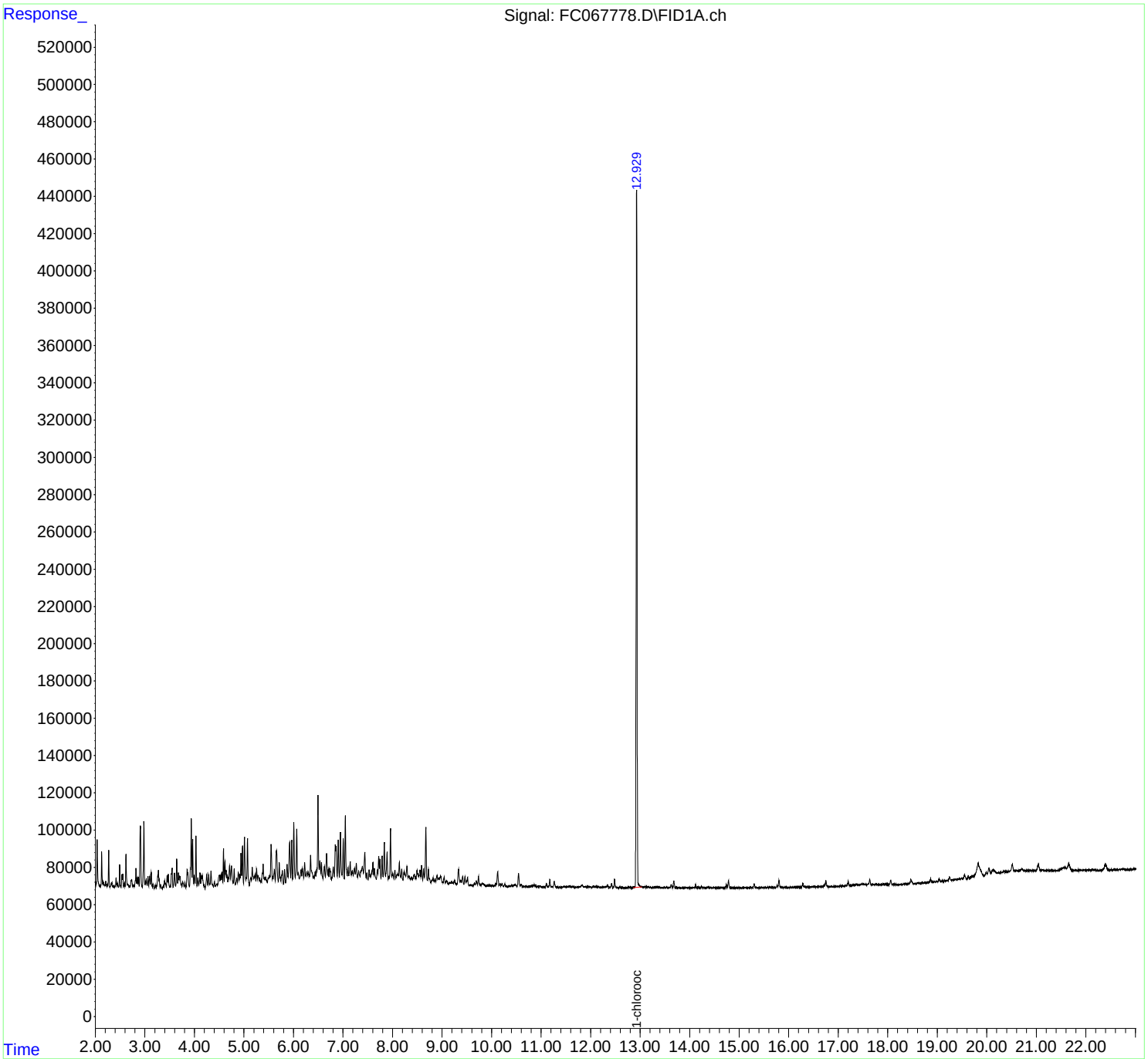
Quantitation Report (QT Reviewed)

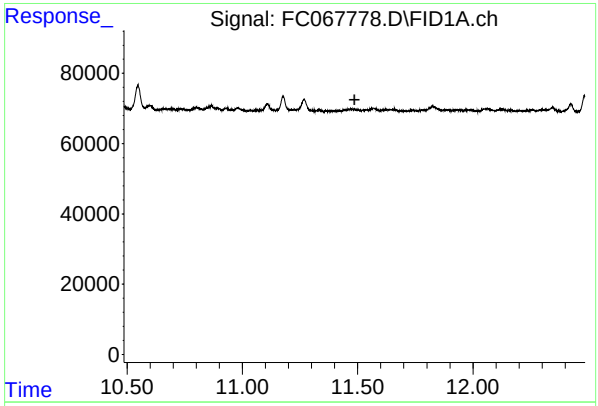
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067778.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 16:26
Operator : YP/AJ
Sample : P4839-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-16

Integration File: autoint1.e
Quant Time: Nov 16 08:23:03 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

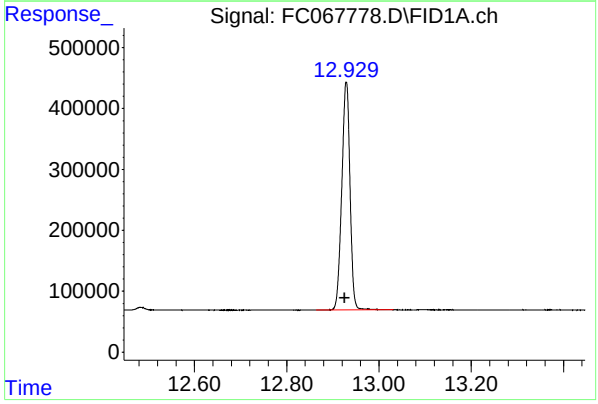




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-16



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.003 min
Response: 4637222
Conc: 31.95 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067778.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 16:26
Sample : P4839-08
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.254	3.306	BV	5718	63901	1.36%	0.157%
2	3.319	3.306	3.347	PV	1477	14192	0.30%	0.035%
3	3.371	3.347	3.380	PV	1393	12818	0.27%	0.031%
4	3.396	3.380	3.409	VV	4115	47302	1.01%	0.116%
5	3.414	3.409	3.431	VV	2893	28844	0.62%	0.071%
6	3.449	3.431	3.459	VV	6896	67312	1.44%	0.165%
7	3.472	3.459	3.502	VV	7665	95846	2.04%	0.235%
8	3.549	3.502	3.570	VV	10806	183976	3.92%	0.452%
9	3.597	3.570	3.619	VV	8270	120741	2.57%	0.296%
10	3.643	3.619	3.662	VV	15855	176504	3.76%	0.433%
11	3.678	3.662	3.748	VV	8502	237727	5.07%	0.583%
12	3.764	3.748	3.793	VV	3754	61868	1.32%	0.152%
13	3.808	3.793	3.826	VV	3304	34010	0.73%	0.083%
14	3.855	3.826	3.897	VV	10422	207977	4.43%	0.510%
15	3.937	3.897	3.952	VV	37232	453679	9.67%	1.113%
16	3.965	3.952	3.984	VV	26019	254741	5.43%	0.625%
17	3.997	3.984	4.012	VV	7150	79394	1.69%	0.195%
18	4.031	4.012	4.053	VV	28267	279374	5.96%	0.686%
19	4.070	4.053	4.088	VV	5787	73939	1.58%	0.181%
20	4.114	4.088	4.127	VV	8406	108894	2.32%	0.267%
21	4.141	4.127	4.188	VV	6698	175410	3.74%	0.430%
22	4.196	4.188	4.218	VV	2169	21084	0.45%	0.052%
23	4.248	4.218	4.270	VV	7496	112909	2.41%	0.277%
24	4.288	4.270	4.309	VV	7412	98751	2.11%	0.242%
25	4.335	4.309	4.388	VV	9319	166037	3.54%	0.407%
26	4.403	4.388	4.424	VV	3690	47204	1.01%	0.116%
27	4.451	4.424	4.468	VV	2288	46378	0.99%	0.114%
28	4.501	4.468	4.518	VV	7199	152855	3.26%	0.375%
29	4.532	4.518	4.544	VV	7135	90889	1.94%	0.223%
30	4.557	4.544	4.571	VV	8804	102574	2.19%	0.252%
31	4.588	4.571	4.603	VV	21257	211167	4.50%	0.518%
32	4.617	4.603	4.631	VV	14499	171387	3.65%	0.421%
33	4.641	4.631	4.675	VV	9904	182954	3.90%	0.449%
34	4.710	4.675	4.727	VV	12194	238212	5.08%	0.585%
35	4.749	4.727	4.785	VV	12159	242168	5.16%	0.594%
36	4.803	4.785	4.827	VV	10416	136720	2.92%	0.336%

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37	4.854	4.827	4.868	VV	5637	91660	1.95%	0.225%
38	4.887	4.868	4.905	VV	8540	142635	3.04%	0.350%
39	4.941	4.905	4.955	VV	18859	286912	6.12%	0.704%
40	4.971	4.955	4.991	VV	22757	266099	5.67%	0.653%
41	5.011	4.991	5.039	VV	27617	376121	8.02%	0.923%
42	5.072	5.039	5.110	VV	26639	387233	8.26%	0.950%
43	5.138	5.110	5.150	VV	5869	104251	2.22%	0.256%
44	5.169	5.150	5.198	VV	11353	210326	4.48%	0.516%
45	5.226	5.198	5.240	VV	7679	154230	3.29%	0.379%
46	5.256	5.240	5.272	VV	10514	141030	3.01%	0.346%
47	5.286	5.272	5.307	VV	6964	121488	2.59%	0.298%
48	5.317	5.307	5.334	VV	5586	77304	1.65%	0.190%
49	5.346	5.334	5.354	VV	4013	45244	0.96%	0.111%
50	5.388	5.354	5.418	VV	13006	283663	6.05%	0.696%
51	5.438	5.418	5.473	VV	6059	155702	3.32%	0.382%
52	5.511	5.473	5.523	VV	6707	165373	3.53%	0.406%
53	5.550	5.523	5.590	VV	23502	450279	9.60%	1.105%
54	5.614	5.590	5.632	VV	10087	184106	3.93%	0.452%
55	5.660	5.632	5.694	VV	20241	437568	9.33%	1.074%
56	5.714	5.694	5.746	VV	13715	230611	4.92%	0.566%
57	5.776	5.746	5.799	VV	9516	192275	4.10%	0.472%
58	5.821	5.799	5.843	VV	10229	149027	3.18%	0.366%
59	5.872	5.843	5.891	VV	12951	228047	4.86%	0.560%
60	5.923	5.891	5.945	VV	24938	469655	10.01%	1.153%
61	5.964	5.945	5.985	VV	25831	321358	6.85%	0.789%
62	6.008	5.985	6.035	VV	35468	491914	10.49%	1.207%
63	6.067	6.035	6.088	VV	31797	464319	9.90%	1.140%
64	6.096	6.088	6.118	VV	8283	123182	2.63%	0.302%
65	6.154	6.118	6.168	VV	10083	221923	4.73%	0.545%
66	6.183	6.168	6.208	VV	10618	205630	4.38%	0.505%
67	6.227	6.208	6.252	VV	13792	244880	5.22%	0.601%
68	6.274	6.252	6.290	VV	8848	174269	3.72%	0.428%
69	6.303	6.290	6.327	VV	8700	168340	3.59%	0.413%
70	6.347	6.327	6.396	VV	17732	413585	8.82%	1.015%
71	6.407	6.396	6.419	VV	6489	81477	1.74%	0.200%
72	6.438	6.419	6.451	VV	8906	141479	3.02%	0.347%
73	6.496	6.451	6.520	VV	49904	773942	16.50%	1.899%
74	6.534	6.520	6.554	VV	14991	234859	5.01%	0.576%
75	6.567	6.554	6.595	VV	13898	224720	4.79%	0.552%
76	6.624	6.595	6.645	VV	11671	253697	5.41%	0.623%
77	6.669	6.645	6.693	VV	18862	348949	7.44%	0.856%
78	6.704	6.693	6.717	VV	10177	120071	2.56%	0.295%
79	6.733	6.717	6.764	VV	10686	234128	4.99%	0.575%
80	6.805	6.764	6.823	VV	11507	273179	5.83%	0.670%
81	6.847	6.823	6.884	VV	23205	571122	12.18%	1.402%
82	6.905	6.884	6.928	VV	25989	378297	8.07%	0.928%
83	6.949	6.928	6.983	VV	30222	490757	10.46%	1.204%
84	7.006	6.983	7.026	VV	27008	369205	7.87%	0.906%
85	7.048	7.026	7.086	VV	38599	596396	12.72%	1.464%
86	7.103	7.086	7.119	VV	11105	173242	3.69%	0.425%
87	7.147	7.119	7.164	VV	14324	271637	5.79%	0.667%
88	7.192	7.164	7.207	VV	9175	210040	4.48%	0.515%
89	7.233	7.207	7.249	VV	10656	223598	4.77%	0.549%

90	7.270	7.249	7.294	VV	13377	254615	5.43%	0.625%
91	7.319	7.294	7.345	VV	8912	227813	4.86%	0.559%
92	7.391	7.345	7.415	VV	11658	396483	8.45%	0.973%
93	7.441	7.415	7.468	VV	19413	386045	8.23%	0.947%
94	7.483	7.468	7.507	VV	8370	153530	3.27%	0.377%
95	7.528	7.507	7.546	VV	9832	171952	3.67%	0.422%
96	7.606	7.546	7.622	VV	13986	403909	8.61%	0.991%
97	7.635	7.622	7.674	VV	10727	233422	4.98%	0.573%
98	7.695	7.674	7.705	VV	10018	146649	3.13%	0.360%
99	7.724	7.705	7.737	VV	17115	243910	5.20%	0.599%
100	7.748	7.737	7.768	VV	15515	202783	4.32%	0.498%
101	7.791	7.768	7.811	VV	17420	270897	5.78%	0.665%
102	7.836	7.811	7.859	VV	24641	382171	8.15%	0.938%
103	7.891	7.859	7.915	VV	19403	358920	7.65%	0.881%
104	7.929	7.915	7.938	VV	6539	81874	1.75%	0.201%
105	7.961	7.938	7.986	VV	32115	437605	9.33%	1.074%
106	8.007	7.986	8.030	VV	7750	182805	3.90%	0.449%
107	8.049	8.030	8.069	VV	9651	166745	3.56%	0.409%
108	8.099	8.069	8.117	VV	7544	203141	4.33%	0.499%
109	8.139	8.117	8.167	VV	13955	271137	5.78%	0.665%
110	8.187	8.167	8.211	VV	10398	190575	4.06%	0.468%
111	8.235	8.211	8.268	VV	8868	238186	5.08%	0.585%
112	8.293	8.268	8.316	VV	11901	247223	5.27%	0.607%
113	8.331	8.316	8.361	VV	6578	154574	3.30%	0.379%
114	8.383	8.361	8.401	VV	6158	126964	2.71%	0.312%
115	8.441	8.401	8.476	VV	7470	267814	5.71%	0.657%
116	8.495	8.476	8.531	VV	9654	244492	5.21%	0.600%
117	8.557	8.531	8.572	VV	9751	197377	4.21%	0.484%
118	8.588	8.572	8.611	VV	12367	196749	4.20%	0.483%
119	8.629	8.611	8.645	VV	10391	152579	3.25%	0.374%
120	8.675	8.645	8.703	VV	32395	504765	10.76%	1.239%
121	8.727	8.703	8.774	VV	10275	244251	5.21%	0.599%
122	8.821	8.774	8.841	VV	5631	171104	3.65%	0.420%
123	8.857	8.841	8.873	VV	5081	83374	1.78%	0.205%
124	8.898	8.873	8.919	VV	6446	144212	3.08%	0.354%
125	8.934	8.919	8.948	VV	5378	90758	1.94%	0.223%
126	8.974	8.948	9.012	VV	6351	192970	4.11%	0.474%
127	9.044	9.012	9.067	VV	6074	136718	2.92%	0.336%
128	9.092	9.067	9.128	VV	3889	115744	2.47%	0.284%
129	9.159	9.128	9.171	VV	3056	70928	1.51%	0.174%
130	9.194	9.171	9.211	VV	3601	73983	1.58%	0.182%
131	9.220	9.211	9.231	VV	2857	33650	0.72%	0.083%
132	9.258	9.231	9.300	VV	3728	121208	2.58%	0.297%
133	9.333	9.300	9.365	VV	10038	219337	4.68%	0.538%
134	9.378	9.365	9.392	VV	4281	60321	1.29%	0.148%
135	9.417	9.392	9.441	VV	6252	127838	2.73%	0.314%
136	9.464	9.441	9.482	VV	6164	101599	2.17%	0.249%
137	9.517	9.482	9.550	VV	6024	141521	3.02%	0.347%
138	9.572	9.550	9.594	VV	1845	44971	0.96%	0.110%
139	9.604	9.594	9.627	VV	1616	30549	0.65%	0.075%
140	9.655	9.627	9.670	VV	2759	53243	1.14%	0.131%
141	9.693	9.670	9.718	VV	3738	80955	1.73%	0.199%

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142	9.738	9.718	9.781	VV	6358	120569	2.57%	0.296%
143	9.811	9.781	9.828	VV	2533	63254	1.35%	0.155%
144	9.839	9.828	9.885	VV	2414	60906	1.30%	0.149%
145	9.909	9.885	9.930	VV	1446	36621	0.78%	0.090%
146	9.948	9.930	9.992	VV	1578	50820	1.08%	0.125%
147	10.014	9.992	10.032	VV	1618	33102	0.71%	0.081%
148	10.085	10.032	10.096	VV	2377	60924	1.30%	0.150%
149	10.125	10.096	10.153	VV	8807	158406	3.38%	0.389%
150	10.172	10.153	10.194	VV	2295	45578	0.97%	0.112%
151	10.214	10.194	10.239	VV	2343	46782	1.00%	0.115%
152	10.268	10.239	10.303	VV	2290	51906	1.11%	0.127%
153	10.337	10.303	10.347	VV	981	24069	0.51%	0.059%
154	10.366	10.347	10.384	VV	1136	22724	0.48%	0.056%
155	10.407	10.384	10.435	VV	1697	41809	0.89%	0.103%
156	10.474	10.435	10.509	VV	2048	68567	1.46%	0.168%
157	10.547	10.509	10.577	VV	7889	145003	3.09%	0.356%
158	10.598	10.577	10.630	VV	1990	46059	0.98%	0.113%
159	10.661	10.630	10.713	VV	1056	46581	0.99%	0.114%
160	10.734	10.713	10.772	VV	958	30643	0.65%	0.075%
161	10.801	10.772	10.829	VV	1406	37529	0.80%	0.092%
162	10.865	10.829	10.888	VV	1906	48359	1.03%	0.119%
163	10.893	10.888	10.914	VV	1220	16238	0.35%	0.040%
164	10.929	10.914	10.961	VV	1149	25333	0.54%	0.062%
165	10.981	10.961	11.046	VV	1295	39610	0.84%	0.097%
166	11.108	11.046	11.142	VV	2430	58823	1.25%	0.144%
167	11.177	11.142	11.238	VV	4702	89237	1.90%	0.219%
168	11.268	11.238	11.302	VV	3712	68727	1.47%	0.169%
169	11.332	11.302	11.354	VV	742	16751	0.36%	0.041%
170	11.375	11.354	11.389	VV	523	8987	0.19%	0.022%
171	11.412	11.389	11.430	VV	549	11249	0.24%	0.028%
172	11.473	11.430	11.514	VV	948	36995	0.79%	0.091%
173	11.538	11.514	11.546	VV	702	12570	0.27%	0.031%
174	11.568	11.546	11.598	VV	1238	27632	0.59%	0.068%
175	11.631	11.598	11.644	VV	850	20194	0.43%	0.050%
176	11.656	11.644	11.684	VV	885	16503	0.35%	0.041%
177	11.691	11.684	11.710	VV	473	6619	0.14%	0.016%
178	11.737	11.710	11.760	VV	617	15381	0.33%	0.038%
179	11.825	11.760	11.872	VV	1715	63408	1.35%	0.156%
180	11.890	11.872	11.916	VV	748	17118	0.37%	0.042%
181	11.931	11.916	11.959	VV	788	17146	0.37%	0.042%
182	11.976	11.959	12.020	VV	789	22199	0.47%	0.054%
183	12.060	12.020	12.095	VV	1074	33566	0.72%	0.082%
184	12.121	12.095	12.149	VV	933	23297	0.50%	0.057%
185	12.164	12.149	12.189	VV	619	12711	0.27%	0.031%
186	12.205	12.189	12.215	VV	443	6633	0.14%	0.016%
187	12.256	12.215	12.275	VV	731	19522	0.42%	0.048%
188	12.345	12.275	12.383	VV	1493	46986	1.00%	0.115%
189	12.424	12.383	12.454	VV	2424	39729	0.85%	0.098%
190	12.484	12.454	12.575	VV	4694	78896	1.68%	0.194%
191	12.600	12.575	12.691	VV	393	15410	0.33%	0.038%
192	12.742	12.691	12.754	VV	348	7325	0.16%	0.018%
193	12.763	12.754	12.792	VV	382	6756	0.14%	0.017%
194	12.807	12.792	12.825	VV	269	4158	0.09%	0.010%

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195	12.844	12.825	12.867	VV	315	6029	0.13%	0.015%
196	12.929	12.867	13.054	VV	375282	4689727	100.00%	11.510%
197	13.063	13.054	13.074	VV	596	6219	0.13%	0.015%
198	13.097	13.074	13.133	VV	836	22548	0.48%	0.055%
199	13.145	13.133	13.184	VV	629	15440	0.33%	0.038%
200	13.207	13.184	13.236	VV	425	11347	0.24%	0.028%
201	13.245	13.236	13.275	VV	354	7025	0.15%	0.017%
202	13.317	13.275	13.341	VV	537	15576	0.33%	0.038%
203	13.368	13.341	13.461	VV	549	23201	0.49%	0.057%
204	13.475	13.461	13.504	VV	340	7350	0.16%	0.018%
205	13.534	13.504	13.571	VV	439	13266	0.28%	0.033%
206	13.628	13.571	13.653	VV	1741	32272	0.69%	0.079%
207	13.681	13.653	13.730	VV	3816	56678	1.21%	0.139%
208	13.741	13.730	13.756	VV	204	2265	0.05%	0.006%
209	13.776	13.756	13.871	VV	234	6286	0.13%	0.015%
210	13.914	13.871	13.963	VV	324	10309	0.22%	0.025%
211	13.978	13.963	14.005	VV	185	3653	0.08%	0.009%
212	14.046	14.005	14.061	VV	228	4850	0.10%	0.012%
213	14.118	14.061	14.165	VV	1410	28896	0.62%	0.071%
214	14.178	14.165	14.221	VV	311	5751	0.12%	0.014%
215	14.243	14.221	14.275	VV	869	13642	0.29%	0.033%
216	14.307	14.275	14.328	VV	236	4393	0.09%	0.011%
217	14.381	14.328	14.417	VV	355	11856	0.25%	0.029%
218	14.433	14.417	14.470	VV	236	5048	0.11%	0.012%
219	14.490	14.470	14.537	VV	253	5988	0.13%	0.015%
220	14.558	14.537	14.578	VV	227	4158	0.09%	0.010%
221	14.596	14.578	14.614	VV	279	4114	0.09%	0.010%
222	14.621	14.614	14.681	VV	188	4613	0.10%	0.011%
223	14.695	14.681	14.705	VV	90	1067	0.02%	0.003%
224	14.738	14.705	14.761	VV	1403	21173	0.45%	0.052%
225	14.783	14.761	14.852	VV	3948	60797	1.30%	0.149%
226	14.871	14.852	14.894	VV	196	2013	0.04%	0.005%
227	14.912	14.894	14.938	VV	137	1870	0.04%	0.005%
228	14.952	14.938	15.009	VV	253	4588	0.10%	0.011%
229	15.018	15.009	15.025	VV	162	872	0.02%	0.002%
230	15.033	15.025	15.064	VV	209	1759	0.04%	0.004%
231	15.085	15.064	15.124	PV	151	2935	0.06%	0.007%
232	15.136	15.124	15.161	VV	154	2017	0.04%	0.005%
233	15.203	15.161	15.230	VV	238	6036	0.13%	0.015%
234	15.241	15.230	15.249	VV	249	1706	0.04%	0.004%
235	15.255	15.249	15.268	VV	179	1518	0.03%	0.004%
236	15.302	15.268	15.340	VV	2084	32629	0.70%	0.080%
237	15.357	15.340	15.383	VV	199	3453	0.07%	0.008%
238	15.396	15.383	15.402	VV	106	1113	0.02%	0.003%
239	15.421	15.402	15.508	VV	170	6642	0.14%	0.016%
240	15.547	15.508	15.563	VV	201	4080	0.09%	0.010%
241	15.613	15.563	15.644	VV	300	10310	0.22%	0.025%
242	15.669	15.644	15.728	VV	254	7952	0.17%	0.020%
243	15.763	15.728	15.778	PV	1047	14239	0.30%	0.035%
244	15.802	15.778	15.838	VV	3869	57777	1.23%	0.142%
245	15.844	15.838	15.876	VV	293	4483	0.10%	0.011%
246	15.885	15.876	15.924	VV	104	2064	0.04%	0.005%

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247	15.939	15.924	15.951	VV	169	1610	0.03%	0.004%
248	15.983	15.951	16.024	VV	186	5465	0.12%	0.013%
249	16.047	16.024	16.066	VV	152	1701	0.04%	0.004%
250	16.115	16.066	16.151	VV	197	5561	0.12%	0.014%
251	16.166	16.151	16.206	VV	184	3915	0.08%	0.010%
252	16.228	16.206	16.251	PV	111	2446	0.05%	0.006%
253	16.284	16.251	16.318	VV	2303	35787	0.76%	0.088%
254	16.327	16.318	16.347	VV	299	3552	0.08%	0.009%
255	16.364	16.347	16.378	VV	178	2252	0.05%	0.006%
256	16.447	16.378	16.548	VV	230	12401	0.26%	0.030%
257	16.590	16.548	16.606	VV	291	4831	0.10%	0.012%
258	16.642	16.606	16.663	VV	378	8444	0.18%	0.021%
259	16.674	16.663	16.692	VV	296	3426	0.07%	0.008%
260	16.716	16.692	16.727	VV	742	11246	0.24%	0.028%
261	16.750	16.727	16.828	VV	3362	56036	1.19%	0.138%
262	16.839	16.828	16.887	VV	159	2849	0.06%	0.007%
263	16.987	16.887	17.004	PV	232	5501	0.12%	0.014%
264	17.012	17.004	17.018	VV	169	1188	0.03%	0.003%
265	17.039	17.018	17.098	VV	261	9857	0.21%	0.024%
266	17.201	17.098	17.245	VV	2619	59066	1.26%	0.145%
267	17.303	17.245	17.343	VV	665	26570	0.57%	0.065%
268	17.384	17.343	17.428	VV	726	31268	0.67%	0.077%
269	17.483	17.428	17.513	VV	884	37032	0.79%	0.091%
270	17.523	17.513	17.558	VV	830	18442	0.39%	0.045%
271	17.565	17.558	17.576	VV	527	5597	0.12%	0.014%
272	17.635	17.576	17.718	VV	3268	83898	1.79%	0.206%
273	17.729	17.718	17.736	VV	369	3434	0.07%	0.008%
274	17.769	17.736	17.838	VV	550	22529	0.48%	0.055%
275	17.916	17.838	17.986	VV	722	29762	0.63%	0.073%
276	18.017	17.986	18.034	VV	264	6365	0.14%	0.016%
277	18.058	18.034	18.115	VV	2360	40124	0.86%	0.098%
278	18.131	18.115	18.176	VV	331	5514	0.12%	0.014%
279	18.323	18.176	18.354	PV	294	6350	0.14%	0.016%
280	18.368	18.354	18.401	VV	176	2635	0.06%	0.006%
281	18.467	18.401	18.534	PV	2570	63823	1.36%	0.157%
282	18.556	18.534	18.574	VV	178	2706	0.06%	0.007%
283	18.618	18.574	18.651	PV	240	6557	0.14%	0.016%
284	18.729	18.651	18.758	VV	357	10595	0.23%	0.026%
285	18.865	18.758	18.927	VV	1812	46377	0.99%	0.114%
286	18.955	18.927	18.981	VV	265	7470	0.16%	0.018%
287	19.036	18.981	19.077	VV	1492	34687	0.74%	0.085%
288	19.120	19.077	19.139	VV	346	11124	0.24%	0.027%
289	19.248	19.139	19.312	VV	2243	72218	1.54%	0.177%
290	19.371	19.312	19.384	VV	611	23823	0.51%	0.058%
291	19.502	19.384	19.510	VV	955	57334	1.22%	0.141%
292	19.551	19.510	19.594	VV	2591	71573	1.53%	0.176%
293	19.625	19.594	19.651	VV	1540	35566	0.76%	0.087%
294	19.822	19.651	19.938	VV	8240	584626	12.47%	1.435%
295	19.990	19.938	20.008	VV	3256	93261	1.99%	0.229%
296	20.043	20.008	20.074	VV	5460	154463	3.29%	0.379%
297	20.137	20.074	20.233	VV	4169	302922	6.46%	0.743%
298	20.263	20.233	20.295	VV	2559	91241	1.95%	0.224%
299	20.343	20.295	20.371	VV	3181	127966	2.73%	0.314%

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300	20.377	20.371	20.391	VV	2759	31905	0.68%	0.078%
301	20.515	20.391	20.605	VV	6259	426775	9.10%	1.047%
302	20.640	20.605	20.650	VV	2693	72889	1.55%	0.179%
303	20.707	20.650	20.761	VV	3459	193110	4.12%	0.474%
304	20.775	20.761	20.785	VV	2580	36598	0.78%	0.090%
305	20.796	20.785	20.851	VV	2510	95174	2.03%	0.234%
306	20.873	20.851	20.938	VV	2383	119175	2.54%	0.292%
307	20.971	20.938	20.987	VV	2143	61176	1.30%	0.150%
308	21.038	20.987	21.090	VV	5332	201425	4.30%	0.494%
309	21.129	21.090	21.171	VV	2173	94047	2.01%	0.231%
310	21.188	21.171	21.197	VV	1700	26031	0.56%	0.064%
311	21.206	21.197	21.231	VV	1730	33600	0.72%	0.082%
312	21.239	21.231	21.278	VV	1676	44876	0.96%	0.110%
313	21.304	21.278	21.384	VV	1508	87594	1.87%	0.215%
314	21.394	21.384	21.409	VV	1248	17270	0.37%	0.042%
315	21.544	21.409	21.554	VV	2357	146609	3.13%	0.360%
316	21.584	21.554	21.615	VV	2539	84717	1.81%	0.208%
317	21.654	21.615	21.738	VV	4056	162234	3.46%	0.398%
318	21.746	21.738	21.761	VV	680	9165	0.20%	0.022%
319	21.772	21.761	21.795	VV	631	11472	0.24%	0.028%
320	21.843	21.795	21.862	VV	528	18937	0.40%	0.046%
321	21.874	21.862	21.884	VV	408	5073	0.11%	0.012%
322	21.930	21.884	21.956	VV	331	12517	0.27%	0.031%
323	22.011	21.956	22.042	VV	261	7655	0.16%	0.019%
324	22.051	22.042	22.077	VV	122	1628	0.03%	0.004%

Sum of corrected areas: 40745860

Aliphatic EPH 111424.M Sat Nov 16 10:00:02 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-16		SDG No.:	P4839	
Lab Sample ID:	P4839-08		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.7	
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
FD048747.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	3.48		0.36	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.44		0.41	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.82	J	1.14	1.99	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.38	U	2.38	3.18	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.8		40 - 140	124%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	62.6		40 - 140	125%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.0		40 - 140	60%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-08	Acq On:	15 Nov 2024 16:26
Client Sample ID:	EX-9-TPH-16	Operator:	YP/AJ
Data file:	FD048747.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	8418831	43.844	200	ug/ml
Aromatic C12-C16	5.806	8.411	8338272	43.325	300	ug/ml
Aromatic C16-C21	8.412	12.674	4250375	22.875	500	ug/ml
Aromatic C21-C36	12.675	18.081	3365130	21.402	800	ug/ml
Aromatic EPH	4.088	18.081	24372608	131.447		ug/ml
ortho-Terphenyl (SURR)	11.253	11.253	5765634	29.98		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	10886212	61.83		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	7208243	62.59		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048747.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:26
Operator : YP/AJ
Sample : P4839-08
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-16

Integration File: sample.E
Quant Time: Nov 16 09:51:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.369	10886212	61.833 ug/ml
Spiked Amount 50.000		Recovery = 123.67%	
6) S 2-Flurobiphenyl (SURR)	8.218	7208243	62.588 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 125.18%	
11) S ortho-Terphenyl (SURR)	11.253	5765634	29.977 ug/ml
Spiked Amount 50.000		Recovery = 59.95%	
Target Compounds			

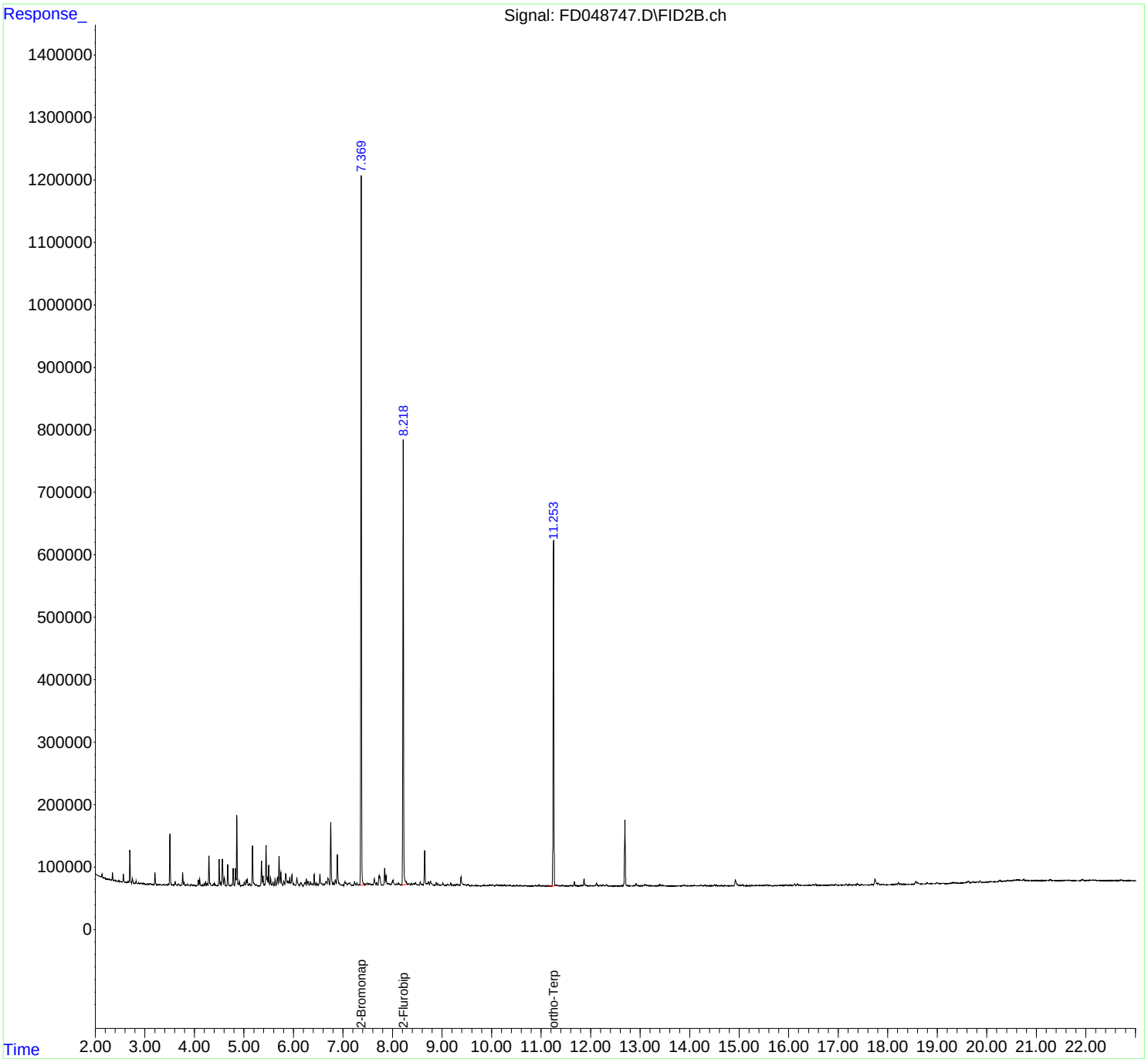
(f)=RT Delta > 1/2 Window (m)=manual int.

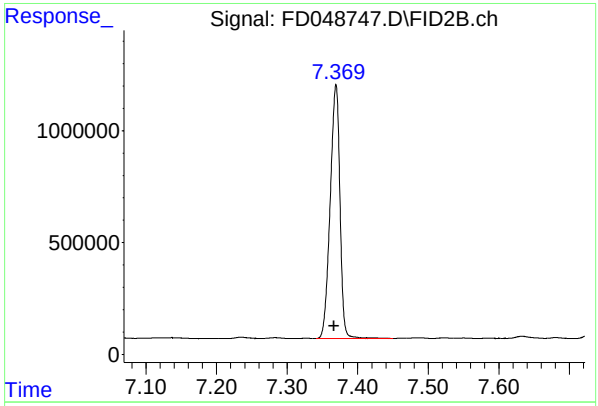
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048747.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:26
Operator : YP/AJ
Sample : P4839-08
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-16

Integration File: sample.E
Quant Time: Nov 16 09:51:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

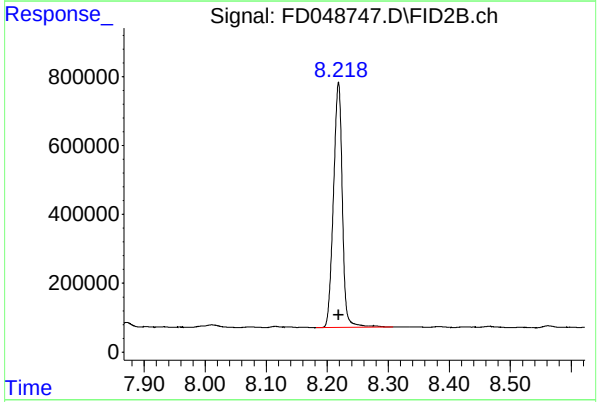




#4 2-Bromonaphthalene (SURR)

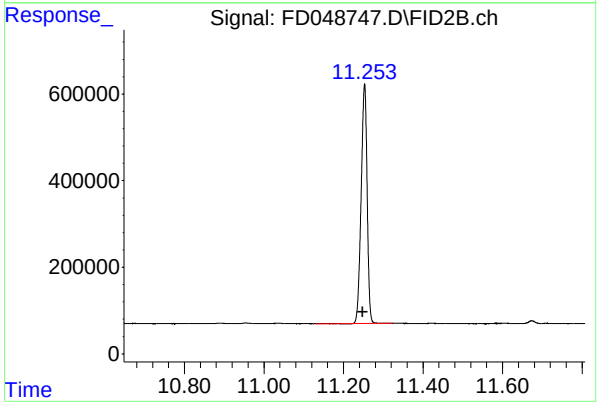
R.T.: 7.369 min
Delta R.T.: 0.002 min
Response: 10886212
Conc: 61.83 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-16



#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 7208243
Conc: 62.59 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.253 min
Delta R.T.: 0.004 min
Response: 5765634
Conc: 29.98 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048747.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:26
Sample : P4839-08
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.080	4.042	4.093	BV	9795	93833	0.86%	0.194%
2	4.107	4.093	4.139	VV	11237	108517	0.99%	0.224%
3	4.159	4.139	4.180	VV	2342	23550	0.22%	0.049%
4	4.194	4.180	4.211	VV	3483	32121	0.29%	0.066%
5	4.226	4.211	4.241	VV	6516	54982	0.50%	0.113%
6	4.256	4.241	4.275	VV	4273	45785	0.42%	0.094%
7	4.294	4.275	4.364	VV	48323	488604	4.47%	1.008%
8	4.381	4.364	4.394	VV	3081	32660	0.30%	0.067%
9	4.407	4.394	4.422	VV	4762	44956	0.41%	0.093%
10	4.435	4.422	4.449	VV	1208	15144	0.14%	0.031%
11	4.458	4.449	4.463	VV	899	5676	0.05%	0.012%
12	4.500	4.463	4.518	VV	42825	392289	3.59%	0.809%
13	4.527	4.518	4.543	VV	5846	57235	0.52%	0.118%
14	4.565	4.543	4.588	VV	43399	551810	5.05%	1.138%
15	4.606	4.588	4.644	VV	13192	176801	1.62%	0.365%
16	4.673	4.644	4.695	PV	34633	321100	2.94%	0.662%
17	4.700	4.695	4.719	VV	1736	15867	0.15%	0.033%
18	4.727	4.719	4.740	VV	811	7707	0.07%	0.016%
19	4.758	4.740	4.765	VV	2754	25647	0.23%	0.053%
20	4.783	4.765	4.808	VV	28672	274272	2.51%	0.566%
21	4.831	4.808	4.842	VV	28539	254953	2.33%	0.526%
22	4.857	4.842	4.880	VV	113656	1047766	9.58%	2.161%
23	4.888	4.880	4.897	VV	4113	36926	0.34%	0.076%
24	4.911	4.897	4.932	VV	7625	77046	0.70%	0.159%
25	4.943	4.932	4.954	VV	902	8557	0.08%	0.018%
26	4.970	4.954	4.989	VV	1864	23456	0.21%	0.048%
27	5.007	4.989	5.027	VV	6618	73670	0.67%	0.152%
28	5.046	5.027	5.057	VV	9648	104640	0.96%	0.216%
29	5.068	5.057	5.090	VV	10540	107609	0.98%	0.222%
30	5.107	5.090	5.115	VV	3706	35933	0.33%	0.074%
31	5.125	5.115	5.141	VV	3382	31785	0.29%	0.066%
32	5.145	5.141	5.152	VV	481	2397	0.02%	0.005%
33	5.173	5.152	5.233	VV	64404	705460	6.45%	1.455%
34	5.248	5.233	5.284	VV	2148	37731	0.34%	0.078%
35	5.296	5.284	5.306	VV	465	4359	0.04%	0.009%
36	5.355	5.306	5.375	VV	40388	435757	3.98%	0.899%

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37	5.387	5.375	5.406	VV	16426	159778	1.46%	0.330%
38	5.419	5.406	5.429	VV	3421	35459	0.32%	0.073%
39	5.447	5.429	5.465	VV	65414	634311	5.80%	1.308%
40	5.474	5.465	5.486	VV	13594	135549	1.24%	0.280%
41	5.500	5.486	5.522	VV	33663	330667	3.02%	0.682%
42	5.539	5.522	5.569	VV	13853	167270	1.53%	0.345%
43	5.588	5.569	5.609	VV	5995	83481	0.76%	0.172%
44	5.629	5.609	5.648	VV	11338	117880	1.08%	0.243%
45	5.679	5.648	5.694	VV	14358	203821	1.86%	0.420%
46	5.710	5.694	5.730	VV	48078	483872	4.42%	0.998%
47	5.747	5.730	5.785	VV	22265	286498	2.62%	0.591%
48	5.803	5.785	5.825	VV	8093	117477	1.07%	0.242%
49	5.844	5.825	5.874	VV	19688	330417	3.02%	0.682%
50	5.885	5.874	5.896	VV	8485	92969	0.85%	0.192%
51	5.905	5.896	5.914	VV	7194	66835	0.61%	0.138%
52	5.927	5.914	5.944	VV	14681	156492	1.43%	0.323%
53	5.970	5.944	5.998	VV	18668	280072	2.56%	0.578%
54	6.009	5.998	6.037	VV	3674	51377	0.47%	0.106%
55	6.069	6.037	6.113	VV	12973	212726	1.94%	0.439%
56	6.149	6.113	6.193	VV	5914	136942	1.25%	0.282%
57	6.231	6.193	6.244	VV	5935	95186	0.87%	0.196%
58	6.261	6.244	6.277	VV	11534	147180	1.35%	0.304%
59	6.295	6.277	6.320	VV	7770	122228	1.12%	0.252%
60	6.343	6.320	6.359	VV	6966	95758	0.88%	0.198%
61	6.370	6.359	6.380	VV	3714	42059	0.38%	0.087%
62	6.390	6.380	6.401	VV	3509	35313	0.32%	0.073%
63	6.419	6.401	6.442	VV	19005	196425	1.80%	0.405%
64	6.458	6.442	6.475	VV	5694	66205	0.61%	0.137%
65	6.492	6.475	6.507	VV	3727	51828	0.47%	0.107%
66	6.535	6.507	6.565	VV	19129	267744	2.45%	0.552%
67	6.573	6.565	6.599	VV	4121	59826	0.55%	0.123%
68	6.615	6.599	6.630	VV	3923	50544	0.46%	0.104%
69	6.658	6.630	6.679	VV	7460	157822	1.44%	0.326%
70	6.697	6.679	6.732	VV	13119	258443	2.36%	0.533%
71	6.754	6.732	6.792	VV	101745	1130236	10.33%	2.331%
72	6.806	6.792	6.824	VV	6148	77228	0.71%	0.159%
73	6.847	6.824	6.866	VV	10151	156704	1.43%	0.323%
74	6.887	6.866	6.919	VV	50947	621030	5.68%	1.281%
75	6.926	6.919	6.950	VV	4941	63812	0.58%	0.132%
76	6.962	6.950	6.978	VV	2447	31906	0.29%	0.066%
77	6.994	6.978	7.015	VV	2298	39215	0.36%	0.081%
78	7.038	7.015	7.051	VV	7348	96164	0.88%	0.198%
79	7.059	7.051	7.085	VV	5440	82299	0.75%	0.170%
80	7.116	7.085	7.125	VV	4626	81993	0.75%	0.169%
81	7.137	7.125	7.176	VV	5299	103029	0.94%	0.213%
82	7.192	7.176	7.215	VV	1881	36438	0.33%	0.075%
83	7.235	7.215	7.263	VV	7279	115788	1.06%	0.239%
84	7.283	7.263	7.312	VV	5366	89579	0.82%	0.185%
85	7.327	7.312	7.340	VV	2793	35370	0.32%	0.073%
86	7.369	7.340	7.413	VV	1135051	10937186	100.00%	22.561%
87	7.422	7.413	7.449	VV	4402	72498	0.66%	0.150%
88	7.464	7.449	7.470	VV	3002	32930	0.30%	0.068%
89	7.486	7.470	7.506	VV	5022	79765	0.73%	0.165%

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90	7.523	7.506	7.537	VV	4859	63086	0.58%	0.130%
91	7.550	7.537	7.569	VV	3886	59414	0.54%	0.123%
92	7.586	7.569	7.611	VV	3173	63476	0.58%	0.131%
93	7.633	7.611	7.666	VV	11806	202803	1.85%	0.418%
94	7.681	7.666	7.708	VV	5879	86804	0.79%	0.179%
95	7.727	7.708	7.736	VV	16462	163447	1.49%	0.337%
96	7.744	7.736	7.790	VV	15511	241128	2.20%	0.497%
97	7.802	7.790	7.817	VV	2246	30671	0.28%	0.063%
98	7.843	7.817	7.859	VV	28765	327259	2.99%	0.675%
99	7.871	7.859	7.893	VV	16863	212637	1.94%	0.439%
100	7.903	7.893	7.919	VV	4666	60860	0.56%	0.126%
101	7.932	7.919	7.945	VV	4226	55564	0.51%	0.115%
102	7.957	7.945	7.975	VV	3379	52913	0.48%	0.109%
103	8.011	7.975	8.053	VV	9794	246200	2.25%	0.508%
104	8.076	8.053	8.097	VV	3719	72909	0.67%	0.150%
105	8.115	8.097	8.128	VV	5383	68748	0.63%	0.142%
106	8.136	8.128	8.151	VV	3836	44766	0.41%	0.092%
107	8.162	8.151	8.182	VV	2892	41718	0.38%	0.086%
108	8.218	8.182	8.269	VV	714193	7272253	66.49%	15.001%
109	8.276	8.269	8.307	VV	6951	117886	1.08%	0.243%
110	8.317	8.307	8.324	VV	3688	34657	0.32%	0.071%
111	8.343	8.324	8.365	VV	3570	83684	0.77%	0.173%
112	8.384	8.365	8.408	VV	4592	87267	0.80%	0.180%
113	8.426	8.408	8.448	VV	3971	78522	0.72%	0.162%
114	8.465	8.448	8.500	VV	5483	109085	1.00%	0.225%
115	8.515	8.500	8.544	VV	2697	54200	0.50%	0.112%
116	8.562	8.544	8.583	VV	7068	102829	0.94%	0.212%
117	8.592	8.583	8.614	VV	3191	51675	0.47%	0.107%
118	8.651	8.614	8.677	VV	57525	646922	5.91%	1.334%
119	8.687	8.677	8.709	VV	4383	75029	0.69%	0.155%
120	8.727	8.709	8.745	VV	7022	111273	1.02%	0.230%
121	8.769	8.745	8.827	VV	8415	204539	1.87%	0.422%
122	8.832	8.827	8.852	VV	1819	22955	0.21%	0.047%
123	8.883	8.852	8.902	VV	6093	87792	0.80%	0.181%
124	8.920	8.902	8.952	VV	4322	74385	0.68%	0.153%
125	8.966	8.952	8.985	VV	1740	29846	0.27%	0.062%
126	9.018	8.985	9.057	VV	4700	109345	1.00%	0.226%
127	9.069	9.057	9.087	VV	1612	22784	0.21%	0.047%
128	9.113	9.087	9.146	VV	3089	71273	0.65%	0.147%
129	9.178	9.146	9.195	VV	4170	74082	0.68%	0.153%
130	9.209	9.195	9.236	VV	2478	45256	0.41%	0.093%
131	9.252	9.236	9.269	VV	2182	32709	0.30%	0.067%
132	9.306	9.269	9.330	VV	3093	78518	0.72%	0.162%
133	9.349	9.330	9.364	VV	2288	37072	0.34%	0.076%
134	9.384	9.364	9.462	VV	14633	287564	2.63%	0.593%
135	9.471	9.462	9.490	VV	2222	31398	0.29%	0.065%
136	9.522	9.490	9.564	VV	2736	73391	0.67%	0.151%
137	9.570	9.564	9.581	VV	1005	7498	0.07%	0.015%
138	9.617	9.581	9.647	VV	1339	38905	0.36%	0.080%
139	9.689	9.647	9.717	VV	1527	39367	0.36%	0.081%
140	9.730	9.717	9.772	VV	988	22527	0.21%	0.046%
141	9.801	9.772	9.815	VV	712	12625	0.12%	0.026%

142	9.845	9.815	9.865	VV	1850	32953	0.30%	0.068%
143	9.881	9.865	9.887	VV	1000	10371	0.09%	0.021%
144	9.907	9.887	9.928	VV	1270	23873	0.22%	0.049%
145	9.947	9.928	9.959	VV	1762	24539	0.22%	0.051%
146	9.981	9.959	10.004	VV	1961	42773	0.39%	0.088%
147	10.026	10.004	10.070	VV	2577	53863	0.49%	0.111%
148	10.096	10.070	10.130	VV	2162	54339	0.50%	0.112%
149	10.139	10.130	10.173	VV	1349	28084	0.26%	0.058%
150	10.183	10.173	10.199	VV	1421	18321	0.17%	0.038%
151	10.215	10.199	10.229	VV	1495	21223	0.19%	0.044%
152	10.233	10.229	10.244	VV	1136	9828	0.09%	0.020%
153	10.268	10.244	10.292	VV	1564	32607	0.30%	0.067%
154	10.313	10.292	10.318	VV	1289	15893	0.15%	0.033%
155	10.329	10.318	10.358	VV	1360	26678	0.24%	0.055%
156	10.378	10.358	10.410	VV	1605	29112	0.27%	0.060%
157	10.434	10.410	10.463	VV	885	18722	0.17%	0.039%
158	10.479	10.463	10.491	VV	842	10083	0.09%	0.021%
159	10.512	10.491	10.566	VV	1437	39775	0.36%	0.082%
160	10.588	10.566	10.620	VV	963	24874	0.23%	0.051%
161	10.625	10.620	10.631	VV	621	3709	0.03%	0.008%
162	10.647	10.631	10.655	VV	930	10867	0.10%	0.022%
163	10.661	10.655	10.665	VV	845	4434	0.04%	0.009%
164	10.675	10.665	10.702	VV	1022	16119	0.15%	0.033%
165	10.712	10.702	10.724	VV	640	6371	0.06%	0.013%
166	10.741	10.724	10.779	VV	532	12973	0.12%	0.027%
167	10.783	10.779	10.785	VV	471	1521	0.01%	0.003%
168	10.804	10.785	10.811	VV	785	9572	0.09%	0.020%
169	10.815	10.811	10.832	VV	826	7684	0.07%	0.016%
170	10.849	10.832	10.863	VV	621	9468	0.09%	0.020%
171	10.887	10.863	10.914	VV	1556	29363	0.27%	0.061%
172	10.930	10.914	10.941	VV	951	12620	0.12%	0.026%
173	10.954	10.941	11.010	VV	1903	36853	0.34%	0.076%
174	11.033	11.010	11.063	VV	1386	26932	0.25%	0.056%
175	11.070	11.063	11.091	VV	538	7334	0.07%	0.015%
176	11.105	11.091	11.125	VV	729	9639	0.09%	0.020%
177	11.148	11.125	11.167	VV	720	13143	0.12%	0.027%
178	11.177	11.167	11.182	VV	529	3650	0.03%	0.008%
179	11.186	11.182	11.208	VV	424	3689	0.03%	0.008%
180	11.253	11.208	11.295	PV	555537	5796636	53.00%	11.957%
181	11.307	11.295	11.324	VV	1524	21828	0.20%	0.045%
182	11.340	11.324	11.378	VV	1404	34061	0.31%	0.070%
183	11.385	11.378	11.399	VV	904	8145	0.07%	0.017%
184	11.403	11.399	11.405	VV	812	2780	0.03%	0.006%
185	11.423	11.405	11.440	VV	1422	21317	0.19%	0.044%
186	11.453	11.440	11.468	VV	800	11275	0.10%	0.023%
187	11.481	11.468	11.486	VV	702	6989	0.06%	0.014%
188	11.492	11.486	11.533	VV	877	14499	0.13%	0.030%
189	11.545	11.533	11.557	VV	458	5491	0.05%	0.011%
190	11.608	11.557	11.631	VV	1390	37718	0.34%	0.078%
191	11.637	11.631	11.651	VV	799	7993	0.07%	0.016%
192	11.673	11.651	11.698	VV	7132	87688	0.80%	0.181%
193	11.707	11.698	11.732	VV	1088	15072	0.14%	0.031%
194	11.749	11.732	11.765	VV	652	10205	0.09%	0.021%

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195	11.769	11.765	11.779	VV	637	4881	0.04%	0.010%
196	11.832	11.779	11.846	VV	1356	37883	0.35%	0.078%
197	11.869	11.846	11.909	VV	11639	157077	1.44%	0.324%
198	11.922	11.909	11.942	VV	1351	20119	0.18%	0.042%
199	11.947	11.942	11.969	VV	914	13345	0.12%	0.028%
200	11.976	11.969	11.980	VV	800	5167	0.05%	0.011%
201	11.985	11.980	11.999	VV	837	7819	0.07%	0.016%
202	12.002	11.999	12.012	VV	684	4768	0.04%	0.010%
203	12.030	12.012	12.049	VV	947	17469	0.16%	0.036%
204	12.054	12.049	12.061	VV	743	5044	0.05%	0.010%
205	12.067	12.061	12.072	VV	772	4830	0.04%	0.010%
206	12.092	12.072	12.101	VV	1451	19948	0.18%	0.041%
207	12.121	12.101	12.147	VV	5103	71765	0.66%	0.148%
208	12.152	12.147	12.175	VV	708	8956	0.08%	0.018%
209	12.196	12.175	12.228	VV	2166	36993	0.34%	0.076%
210	12.256	12.228	12.285	VV	2542	42360	0.39%	0.087%
211	12.321	12.285	12.369	VV	2943	59122	0.54%	0.122%
212	12.375	12.369	12.389	VV	567	5532	0.05%	0.011%
213	12.390	12.389	12.412	VV	516	5446	0.05%	0.011%
214	12.427	12.412	12.440	VV	587	6673	0.06%	0.014%
215	12.444	12.440	12.459	VV	350	2665	0.02%	0.005%
216	12.475	12.459	12.485	VV	358	3778	0.03%	0.008%
217	12.507	12.485	12.515	VV	562	7266	0.07%	0.015%
218	12.517	12.515	12.521	VV	677	1683	0.02%	0.003%
219	12.528	12.521	12.555	VV	701	7908	0.07%	0.016%
220	12.570	12.555	12.587	VV	369	4236	0.04%	0.009%
221	12.620	12.587	12.640	VV	1080	18638	0.17%	0.038%
222	12.653	12.640	12.657	VV	798	6725	0.06%	0.014%
223	12.693	12.657	12.728	VV	105578	1223430	11.19%	2.524%
224	12.740	12.728	12.774	VV	1143	22811	0.21%	0.047%
225	12.776	12.774	12.816	VV	762	14178	0.13%	0.029%
226	12.834	12.816	12.849	VV	553	8959	0.08%	0.018%
227	12.860	12.849	12.869	VV	668	6920	0.06%	0.014%
228	12.919	12.869	12.965	VV	4352	80976	0.74%	0.167%
229	12.974	12.965	12.979	VV	652	4920	0.04%	0.010%
230	12.993	12.979	13.012	VV	772	12691	0.12%	0.026%
231	13.027	13.012	13.034	VV	683	7356	0.07%	0.015%
232	13.037	13.034	13.048	VV	584	4914	0.04%	0.010%
233	13.063	13.048	13.068	VV	961	9206	0.08%	0.019%
234	13.073	13.068	13.076	VV	937	4207	0.04%	0.009%
235	13.095	13.076	13.142	VV	3319	67773	0.62%	0.140%
236	13.148	13.142	13.174	VV	1012	15400	0.14%	0.032%
237	13.198	13.174	13.220	VV	775	15819	0.14%	0.033%
238	13.237	13.220	13.246	VV	831	9768	0.09%	0.020%
239	13.268	13.246	13.287	VV	866	16949	0.15%	0.035%
240	13.295	13.287	13.309	VV	770	8478	0.08%	0.017%
241	13.319	13.309	13.342	VV	766	11159	0.10%	0.023%
242	13.345	13.342	13.352	VV	566	2729	0.02%	0.006%
243	13.357	13.352	13.366	VV	528	4394	0.04%	0.009%
244	13.400	13.366	13.425	VV	3077	51201	0.47%	0.106%
245	13.446	13.425	13.486	VV	2018	31545	0.29%	0.065%
246	13.494	13.486	13.516	VV	469	7296	0.07%	0.015%

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247	13.521	13.516	13.525	VV	377	1911	0.02%	0.004%
248	13.540	13.525	13.552	VV	497	6602	0.06%	0.014%
249	13.558	13.552	13.572	VV	417	4289	0.04%	0.009%
250	13.587	13.572	13.615	VV	505	6993	0.06%	0.014%
251	13.624	13.615	13.628	PV	279	1131	0.01%	0.002%
252	13.646	13.628	13.655	VV	522	4767	0.04%	0.010%
253	13.665	13.655	13.672	VV	505	3137	0.03%	0.006%
254	13.679	13.672	13.689	VV	344	3546	0.03%	0.007%
255	13.692	13.689	13.706	VV	415	3689	0.03%	0.008%
256	13.716	13.706	13.726	VV	403	3755	0.03%	0.008%
257	13.738	13.726	13.770	VV	404	8129	0.07%	0.017%
258	13.774	13.770	13.778	VV	450	1648	0.02%	0.003%
259	13.787	13.778	13.792	VV	437	3094	0.03%	0.006%
260	13.809	13.792	13.828	VV	691	10657	0.10%	0.022%
261	13.842	13.828	13.857	VV	665	10012	0.09%	0.021%
262	13.883	13.857	13.909	VV	1970	34483	0.32%	0.071%
263	13.915	13.909	13.927	VV	655	6257	0.06%	0.013%
264	13.930	13.927	13.948	VV	572	6327	0.06%	0.013%
265	13.963	13.948	13.969	VV	620	6186	0.06%	0.013%
266	13.970	13.969	13.985	VV	563	3995	0.04%	0.008%
267	14.000	13.985	14.005	VV	632	5759	0.05%	0.012%
268	14.012	14.005	14.023	VV	623	5377	0.05%	0.011%
269	14.034	14.023	14.040	VV	530	4758	0.04%	0.010%
270	14.044	14.040	14.056	VV	526	4552	0.04%	0.009%
271	14.060	14.056	14.065	VV	543	2576	0.02%	0.005%
272	14.089	14.065	14.123	VV	1265	28548	0.26%	0.059%
273	14.136	14.123	14.148	VV	759	9460	0.09%	0.020%
274	14.156	14.148	14.161	VV	594	4327	0.04%	0.009%
275	14.166	14.161	14.204	VV	685	15049	0.14%	0.031%
276	14.224	14.204	14.275	VV	1620	35704	0.33%	0.074%
277	14.302	14.275	14.334	VV	1790	33272	0.30%	0.069%
278	14.343	14.334	14.359	VV	573	7003	0.06%	0.014%
279	14.361	14.359	14.372	VV	457	3053	0.03%	0.006%
280	14.376	14.372	14.387	VV	536	4183	0.04%	0.009%
281	14.390	14.387	14.412	VV	559	6519	0.06%	0.013%
282	14.419	14.412	14.424	VV	426	2550	0.02%	0.005%
283	14.431	14.424	14.436	VV	389	2485	0.02%	0.005%
284	14.441	14.436	14.447	VV	456	2027	0.02%	0.004%
285	14.451	14.447	14.456	VV	318	1372	0.01%	0.003%
286	14.504	14.456	14.525	VV	2053	35532	0.32%	0.073%
287	14.544	14.525	14.568	VV	1684	22531	0.21%	0.046%
288	14.584	14.568	14.615	VV	561	12641	0.12%	0.026%
289	14.634	14.615	14.650	VV	712	10259	0.09%	0.021%
290	14.662	14.650	14.674	VV	533	5152	0.05%	0.011%
291	14.683	14.674	14.692	VV	372	2727	0.02%	0.006%
292	14.720	14.692	14.742	VV	645	11825	0.11%	0.024%
293	14.748	14.742	14.758	VV	496	3874	0.04%	0.008%
294	14.769	14.758	14.782	VV	469	5028	0.05%	0.010%
295	14.788	14.782	14.795	VV	366	2272	0.02%	0.005%
296	14.798	14.795	14.809	VV	431	1765	0.02%	0.004%
297	14.815	14.809	14.820	VV	470	2094	0.02%	0.004%
298	14.830	14.820	14.837	VV	463	3993	0.04%	0.008%
299	14.839	14.837	14.868	VV	527	5644	0.05%	0.012%

300	14.884	14.868	14.892	VV	364	2934	0.03%	0.006%
301	14.922	14.892	14.985	VV	9776	206082	1.88%	0.425%
302	14.996	14.985	15.001	VV	1057	8165	0.07%	0.017%
303	15.004	15.001	15.025	VV	837	9340	0.09%	0.019%
304	15.030	15.025	15.040	VV	612	4660	0.04%	0.010%
305	15.046	15.040	15.049	VV	605	2799	0.03%	0.006%
306	15.073	15.049	15.100	VV	2441	35356	0.32%	0.073%
307	15.106	15.100	15.135	VV	443	4232	0.04%	0.009%
308	15.144	15.135	15.152	VV	281	1623	0.01%	0.003%
309	15.157	15.152	15.173	VV	312	2467	0.02%	0.005%
310	15.180	15.173	15.198	VV	335	3885	0.04%	0.008%
311	15.205	15.198	15.225	VV	457	4934	0.05%	0.010%
312	15.259	15.225	15.305	VV	837	20569	0.19%	0.042%
313	15.321	15.305	15.332	VV	454	4806	0.04%	0.010%
314	15.349	15.332	15.364	VV	655	8023	0.07%	0.017%
315	15.370	15.364	15.384	VV	402	4107	0.04%	0.008%
316	15.406	15.384	15.430	VV	522	11007	0.10%	0.023%
317	15.441	15.430	15.452	VV	677	7324	0.07%	0.015%
318	15.457	15.452	15.502	VV	625	12106	0.11%	0.025%
319	15.520	15.502	15.535	VV	877	12699	0.12%	0.026%
320	15.560	15.535	15.585	VV	1664	25634	0.23%	0.053%
321	15.590	15.585	15.598	VV	522	2896	0.03%	0.006%
322	15.604	15.598	15.608	VV	496	2519	0.02%	0.005%
323	15.616	15.608	15.635	VV	505	5786	0.05%	0.012%
324	15.641	15.635	15.704	VV	351	5338	0.05%	0.011%
325	15.713	15.704	15.730	VV	372	3728	0.03%	0.008%
326	15.734	15.730	15.757	VV	265	1931	0.02%	0.004%
327	15.771	15.765	15.804	VV	322	5033	0.05%	0.010%
328	15.812	15.804	15.834	VV	384	4426	0.04%	0.009%
329	15.845	15.834	15.855	VV	337	3660	0.03%	0.008%
330	15.860	15.855	15.872	VV	387	2748	0.03%	0.006%
331	15.891	15.872	15.902	VV	443	5073	0.05%	0.010%
332	15.909	15.902	15.915	VV	462	2919	0.03%	0.006%
333	15.934	15.915	15.989	VV	1216	31232	0.29%	0.064%
334	16.009	15.989	16.016	VV	583	7063	0.06%	0.015%
335	16.039	16.016	16.072	VV	800	15883	0.15%	0.033%
336	16.116	16.072	16.151	VV	3103	50874	0.47%	0.105%
337	16.174	16.151	16.224	VV	3066	61775	0.56%	0.127%
338	16.228	16.224	16.258	VV	736	10239	0.09%	0.021%
339	16.269	16.258	16.277	VV	443	3590	0.03%	0.007%
340	16.283	16.277	16.320	VV	347	7487	0.07%	0.015%
341	16.332	16.320	16.337	VV	396	2712	0.02%	0.006%
342	16.349	16.337	16.360	VV	492	4031	0.04%	0.008%
343	16.384	16.360	16.402	VV	395	7408	0.07%	0.015%
344	16.417	16.402	16.445	VV	551	8291	0.08%	0.017%
345	16.476	16.445	16.486	VV	798	11521	0.11%	0.024%
346	16.502	16.486	16.524	VV	1543	21207	0.19%	0.044%
347	16.546	16.524	16.576	VV	2885	38838	0.36%	0.080%
348	16.585	16.576	16.603	VV	278	2893	0.03%	0.006%
349	16.610	16.603	16.615	VV	248	1498	0.01%	0.003%
350	16.627	16.615	16.634	VV	403	3074	0.03%	0.006%
351	16.638	16.634	16.645	VV	303	1357	0.01%	0.003%

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352	16.654	16.645	16.658	VV	336	1486	0.01%	0.003%
353	16.663	16.658	16.682	VV	261	1870	0.02%	0.004%
354	16.704	16.695	16.709	VV	246	1170	0.01%	0.002%
355	16.720	16.709	16.725	VV	285	1668	0.02%	0.003%
356	16.731	16.725	16.742	VV	276	2096	0.02%	0.004%
357	16.747	16.742	16.784	VV	326	5363	0.05%	0.011%
358	16.794	16.784	16.799	VV	357	2436	0.02%	0.005%
359	16.820	16.799	16.842	VV	564	9261	0.08%	0.019%
360	16.846	16.842	16.852	VV	362	1457	0.01%	0.003%
361	16.876	16.852	16.917	VV	917	21109	0.19%	0.044%
362	16.921	16.917	16.924	VV	497	1846	0.02%	0.004%
363	16.951	16.924	16.984	VV	1783	30938	0.28%	0.064%
364	16.988	16.984	17.000	VV	334	1847	0.02%	0.004%
365	17.006	17.000	17.012	VV	215	1332	0.01%	0.003%
366	17.065	17.012	17.097	VV	501	14757	0.13%	0.030%
367	17.102	17.097	17.126	VV	266	3610	0.03%	0.007%
368	17.157	17.126	17.200	VV	1861	32600	0.30%	0.067%
369	17.227	17.200	17.259	VV	1879	26965	0.25%	0.056%
370	17.275	17.259	17.282	VV	262	2074	0.02%	0.004%
371	17.294	17.282	17.299	VV	322	1602	0.01%	0.003%
372	17.356	17.299	17.365	VV	748	16733	0.15%	0.035%
373	17.386	17.365	17.411	VV	2271	30701	0.28%	0.063%
374	17.422	17.411	17.447	VV	304	4562	0.04%	0.009%
375	17.474	17.447	17.505	VV	1056	15465	0.14%	0.032%
376	17.538	17.505	17.543	VV	376	5405	0.05%	0.011%
377	17.545	17.543	17.570	VV	321	3043	0.03%	0.006%
378	17.584	17.570	17.608	PV	326	4261	0.04%	0.009%
379	17.643	17.608	17.648	PV	210	1621	0.01%	0.003%
380	17.677	17.648	17.702	VV	705	13246	0.12%	0.027%
381	17.742	17.702	17.787	VV	9388	199430	1.82%	0.411%
382	17.807	17.787	17.849	VV	3297	60373	0.55%	0.125%
383	17.899	17.849	17.990	VV	821	33529	0.31%	0.069%
384	18.014	17.990	18.030	PV	223	3894	0.04%	0.008%
385	18.083	18.030	18.117	VV	231	5963	0.05%	0.012%

Sum of corrected areas: 48478480

Aromatic EPH 111424.M Sat Nov 16 10:28:39 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-17			SDG No.:	P4839
Lab Sample ID:	P4839-09			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.7
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 10:02	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	53.1		5	2.12	5.57	mg/kg	FC067800.D
Aliphatic C12-C16	Aliphatic C12-C16	72.1		5	1.34	3.71	mg/kg	FC067800.D
Aliphatic C16-C21	Aliphatic C16-C21	6.59		1	0.33	1.11	mg/kg	FC067779.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	U	1	0.89	1.48	mg/kg	FC067779.D
Aliphatic C28-C40	Aliphatic C28-C40	6.69		1	2.00	2.23	mg/kg	FC067779.D
Aromatic C16-C21	Aromatic C16-C21	9.19		1	1.07	1.86	mg/kg	FD048748.D
Aromatic C21-C36	Aromatic C21-C36	2.23	U	1	2.23	2.97	mg/kg	FD048748.D
Total AliphaticEPH	Total AliphaticEPH	138			6.68	14.1	mg/kg	
Total AromaticEPH	Total AromaticEPH	50.3			6.86	14.1	mg/kg	
Total EPH	Total EPH	189			13.5	28.2	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-17			SDG No.:	P4839
Lab Sample ID:	P4839-09			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.7
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 10:02	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	53.1		5	2.12	5.57	mg/kg	FC067800.D
Aliphatic C12-C16	Aliphatic C12-C16	72.1		5	1.34	3.71	mg/kg	FC067800.D
Aliphatic C16-C21	Aliphatic C16-C21	6.59		1	0.33	1.11	mg/kg	FC067779.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	U	1	0.89	1.48	mg/kg	FC067779.D
Aliphatic C28-C40	Aliphatic C28-C40	6.69		1	2.00	2.23	mg/kg	FC067779.D
Aromatic C10-C12	Aromatic C10-C12	16.0		5	1.67	3.71	mg/kg	FD048758.D
Aromatic C12-C16	Aromatic C12-C16	25.1		5	1.89	5.57	mg/kg	FD048758.D
Aromatic C16-C21	Aromatic C16-C21	9.19		1	1.07	1.86	mg/kg	FD048748.D
Aromatic C21-C36	Aromatic C21-C36	2.23	U	1	2.23	2.97	mg/kg	FD048748.D
Total AliphaticEPH	Total AliphaticEPH	138			6.68	14.1	mg/kg	
Total AromaticEPH	Total AromaticEPH	50.3			6.86	14.1	mg/kg	
Total EPH	Total EPH	189			13.5	28.2	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-17		SDG No.:	P4839	
Lab Sample ID:	P4839-09		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.7	
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
FC067779.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		45.5	E	0.42	1.11	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		65.2	E	0.27	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		6.59		0.33	1.11	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.89	U	0.89	1.48	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		6.69		2.00	2.23	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		24.6		40 - 140	49%	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:	P4839-09	Acq On:	15 Nov 2024 17:03
Client Sample ID:	EX-9-TPH-17	Operator:	YP/AJ
Data file:	FC067779.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	278295586	1680		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	3565905	24.57		ug/ml
Aliphatic C9-C12	3.172	6.448	101604292	612.844	300	ug/ml
Aliphatic C12-C16	6.449	9.838	149681104	878.491	200	ug/ml
Aliphatic C16-C21	9.839	13.196	15050559	88.73	300	ug/ml
Aliphatic C21-C28	13.197	16.850	1039698	6.61	400	ug/ml
Aliphatic C28-C40	16.851	21.693	10919933	90.164	600	ug/ml
Aliphatic C9-C28	3.172	16.850	267375653	1590	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067779.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:03
Operator : YP/AJ
Sample : P4839-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-17

Integration File: autoint1.e
Quant Time: Nov 16 08:23:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.929	3565905	24.565 ug/ml
Spiked Amount 50.000		Recovery = 49.13%	
Target Compounds			

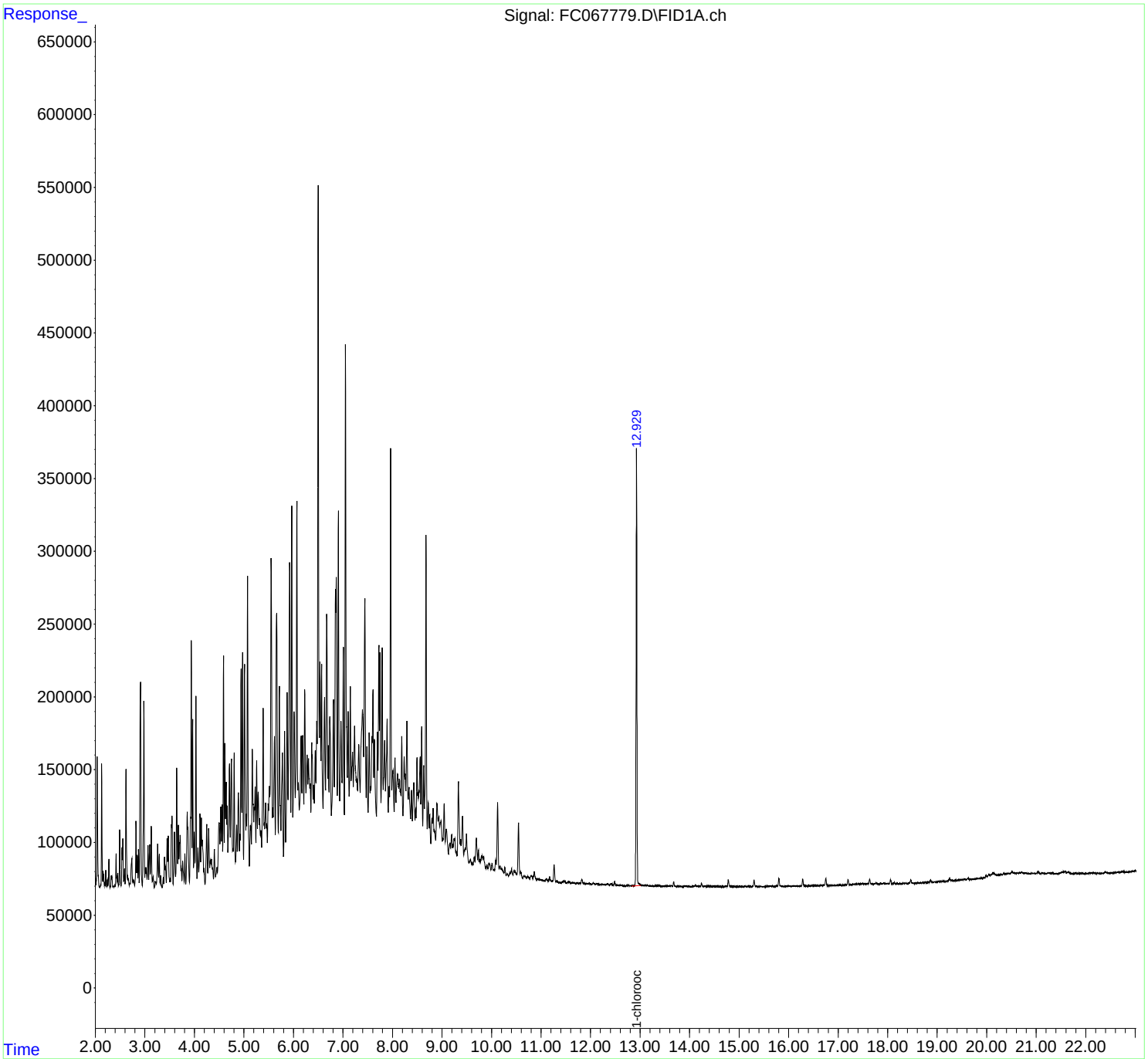
(f)=RT Delta > 1/2 Window (m)=manual int.

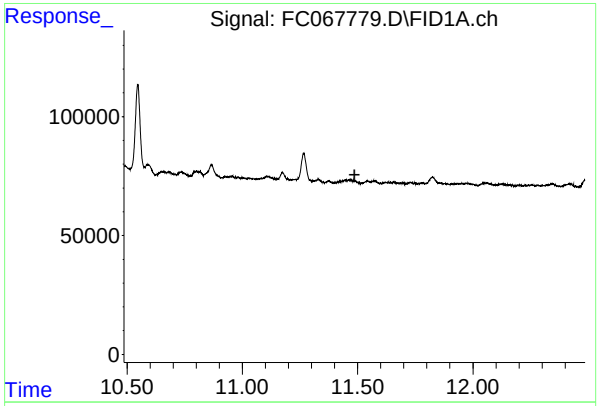
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067779.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:03
Operator : YP/AJ
Sample : P4839-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-17

Integration File: autoint1.e
Quant Time: Nov 16 08:23:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

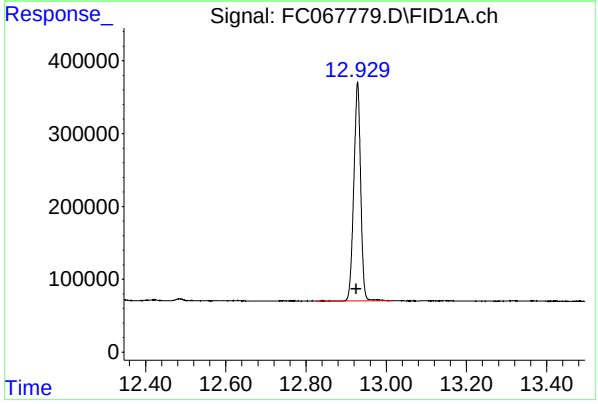




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-17



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.003 min
Response: 3565905
Conc: 24.57 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067779.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:03
Sample : P4839-09
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.257	3.224	3.277	BV	28102	326526	5.12%	0.117%
2	3.290	3.277	3.306	VV	21776	201428	3.16%	0.072%
3	3.319	3.306	3.349	VV	7538	86695	1.36%	0.031%
4	3.370	3.349	3.380	PV	7108	63055	0.99%	0.023%
5	3.396	3.380	3.432	VV	21142	375409	5.88%	0.134%
6	3.449	3.432	3.459	VV	33934	324730	5.09%	0.116%
7	3.472	3.459	3.501	VV	35227	449316	7.04%	0.161%
8	3.548	3.501	3.570	VV	48988	904668	14.17%	0.323%
9	3.597	3.570	3.619	VV	38297	560935	8.79%	0.200%
10	3.643	3.619	3.662	VV	81195	931446	14.59%	0.333%
11	3.677	3.662	3.689	VV	42935	474775	7.44%	0.170%
12	3.712	3.689	3.748	VV	35359	748576	11.73%	0.267%
13	3.763	3.748	3.792	VV	18462	290802	4.56%	0.104%
14	3.808	3.792	3.826	VV	23444	233090	3.65%	0.083%
15	3.855	3.826	3.899	VV	52117	1075229	16.84%	0.384%
16	3.938	3.899	3.952	VV	169950	2070959	32.44%	0.740%
17	3.965	3.952	3.984	VV	115250	1123081	17.59%	0.401%
18	3.997	3.984	4.012	VV	38391	439406	6.88%	0.157%
19	4.031	4.012	4.052	VV	131880	1326486	20.78%	0.474%
20	4.071	4.052	4.088	VV	27473	359148	5.63%	0.128%
21	4.114	4.088	4.127	VV	50766	637629	9.99%	0.228%
22	4.141	4.127	4.153	VV	47791	536073	8.40%	0.192%
23	4.158	4.153	4.215	VV	32901	651182	10.20%	0.233%
24	4.248	4.215	4.269	VV	43502	663171	10.39%	0.237%
25	4.288	4.269	4.310	VV	40562	593955	9.30%	0.212%
26	4.324	4.310	4.334	VV	18916	245698	3.85%	0.088%
27	4.344	4.334	4.385	VV	19666	425030	6.66%	0.152%
28	4.403	4.385	4.427	VV	26313	379855	5.95%	0.136%
29	4.452	4.427	4.465	VV	14024	244106	3.82%	0.087%
30	4.498	4.465	4.516	VV	44384	962231	15.07%	0.344%
31	4.532	4.516	4.545	VV	55513	736542	11.54%	0.263%
32	4.558	4.545	4.571	VV	57018	680643	10.66%	0.243%
33	4.588	4.571	4.603	VV	159272	1624753	25.45%	0.581%
34	4.616	4.603	4.630	VV	98661	1095244	17.16%	0.391%
35	4.641	4.630	4.677	VV	72178	1458553	22.85%	0.521%
36	4.707	4.677	4.725	VV	84713	1489932	23.34%	0.532%

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37	4.747	4.725	4.783	VV	88516	1772543	27.77%	0.633%
38	4.803	4.783	4.830	VV	91536	1265399	19.82%	0.452%
39	4.854	4.830	4.867	VV	43267	662384	10.38%	0.237%
40	4.888	4.867	4.909	VV	65238	1144684	17.93%	0.409%
41	4.942	4.909	4.957	VV	149110	2037754	31.92%	0.728%
42	4.973	4.957	4.993	VV	163262	1864182	29.20%	0.666%
43	5.012	4.993	5.054	VV	153655	2660311	41.68%	0.951%
44	5.073	5.054	5.111	VV	213874	2823043	44.23%	1.009%
45	5.131	5.111	5.150	VV	41823	815307	12.77%	0.291%
46	5.170	5.150	5.199	VV	94715	1781147	27.90%	0.636%
47	5.227	5.199	5.241	VV	69482	1362982	21.35%	0.487%
48	5.257	5.241	5.273	VV	87312	1144546	17.93%	0.409%
49	5.288	5.273	5.309	VV	65605	1173906	18.39%	0.419%
50	5.316	5.309	5.333	VV	47779	623851	9.77%	0.223%
51	5.344	5.333	5.358	VV	39211	526760	8.25%	0.188%
52	5.389	5.358	5.417	VV	122106	2245373	35.18%	0.802%
53	5.439	5.417	5.474	VV	58296	1548817	24.26%	0.553%
54	5.513	5.474	5.524	VV	69589	1668424	26.14%	0.596%
55	5.551	5.524	5.591	VV	225078	4439177	69.54%	1.586%
56	5.616	5.591	5.634	VV	104512	1864490	29.21%	0.666%
57	5.660	5.634	5.695	VV	188064	3972012	62.22%	1.419%
58	5.716	5.695	5.748	VV	136557	2353389	36.87%	0.841%
59	5.777	5.748	5.800	VV	92835	1891875	29.64%	0.676%
60	5.822	5.800	5.844	VV	107337	1550281	24.29%	0.554%
61	5.873	5.844	5.891	VV	134211	2267890	35.53%	0.810%
62	5.924	5.891	5.947	VV	222609	4461323	69.89%	1.594%
63	5.966	5.947	5.988	VV	262759	3249616	50.91%	1.161%
64	6.014	5.988	6.038	VV	119639	2568160	40.23%	0.918%
65	6.070	6.038	6.119	VV	265037	5166153	80.93%	1.846%
66	6.155	6.119	6.170	VV	103867	2324754	36.42%	0.831%
67	6.185	6.170	6.210	VV	104270	2032980	31.85%	0.726%
68	6.229	6.210	6.254	VV	136609	2500572	39.17%	0.894%
69	6.277	6.254	6.292	VV	91258	1792740	28.08%	0.641%
70	6.305	6.292	6.353	VV	88322	2687049	42.09%	0.960%
71	6.370	6.353	6.398	VV	98346	2138098	33.49%	0.764%
72	6.408	6.398	6.421	VV	70161	910053	14.26%	0.325%
73	6.441	6.421	6.454	VV	93969	1521910	23.84%	0.544%
74	6.472	6.454	6.479	VV	114071	1489041	23.33%	0.532%
75	6.500	6.479	6.523	VV	480483	6383360	100.00%	2.281%
76	6.537	6.523	6.555	VV	155065	2390388	37.45%	0.854%
77	6.570	6.555	6.597	VV	152744	2457226	38.49%	0.878%
78	6.628	6.597	6.648	VV	130074	2795497	43.79%	0.999%
79	6.673	6.648	6.718	VV	188393	4745362	74.34%	1.696%
80	6.735	6.718	6.767	VV	116952	2582593	40.46%	0.923%
81	6.807	6.767	6.826	VV	128831	2943300	46.11%	1.052%
82	6.865	6.826	6.886	VV	212901	5337484	83.62%	1.907%
83	6.907	6.886	6.935	VV	257884	3836956	60.11%	1.371%
84	6.961	6.935	6.983	VV	114217	2491734	39.03%	0.890%
85	7.008	6.983	7.028	VV	163931	2770517	43.40%	0.990%
86	7.052	7.028	7.088	VV	372656	5892082	92.30%	2.106%
87	7.106	7.088	7.126	VV	120546	2083614	32.64%	0.745%
88	7.150	7.126	7.168	VV	137918	2409372	37.74%	0.861%
89	7.194	7.168	7.210	VV	93041	2083338	32.64%	0.744%

90	7.235	7.210	7.294	VV	110388	4170444	65.33%	1.490%
91	7.321	7.294	7.347	VV	98168	2563707	40.16%	0.916%
92	7.395	7.347	7.418	VV	121521	4335257	67.91%	1.549%
93	7.443	7.418	7.469	VV	199474	4023636	63.03%	1.438%
94	7.485	7.469	7.508	VV	96713	1738360	27.23%	0.621%
95	7.530	7.508	7.549	VV	106236	1916751	30.03%	0.685%
96	7.558	7.549	7.564	VV	68905	597338	9.36%	0.213%
97	7.607	7.564	7.623	VV	135871	3555475	55.70%	1.271%
98	7.636	7.623	7.678	VV	102163	2375841	37.22%	0.849%
99	7.697	7.678	7.708	VV	106103	1533280	24.02%	0.548%
100	7.726	7.708	7.738	VV	166732	2272300	35.60%	0.812%
101	7.750	7.738	7.770	VV	161305	2126255	33.31%	0.760%
102	7.793	7.770	7.814	VV	163117	2736930	42.88%	0.978%
103	7.842	7.814	7.860	VV	100494	2267610	35.52%	0.810%
104	7.892	7.860	7.915	VV	115098	2740242	42.93%	0.979%
105	7.932	7.915	7.941	VV	69378	968926	15.18%	0.346%
106	7.964	7.941	7.988	VV	300261	4215425	66.04%	1.506%
107	8.009	7.988	8.034	VV	79926	1940272	30.40%	0.693%
108	8.052	8.034	8.071	VV	88688	1558778	24.42%	0.557%
109	8.103	8.071	8.126	VV	77377	2368960	37.11%	0.847%
110	8.140	8.126	8.171	VV	74112	1825295	28.59%	0.652%
111	8.189	8.171	8.212	VV	102977	1855338	29.07%	0.663%
112	8.237	8.212	8.270	VV	89265	2517507	39.44%	0.900%
113	8.293	8.270	8.321	VV	112994	2525659	39.57%	0.903%
114	8.334	8.321	8.366	VV	68541	1614852	25.30%	0.577%
115	8.385	8.366	8.403	VV	66380	1216568	19.06%	0.435%
116	8.432	8.403	8.456	VV	72079	1916696	30.03%	0.685%
117	8.468	8.456	8.477	VV	53722	633823	9.93%	0.226%
118	8.496	8.477	8.522	VV	88892	1808489	28.33%	0.646%
119	8.559	8.522	8.574	VV	88702	2265214	35.49%	0.809%
120	8.590	8.574	8.612	VV	110035	1782371	27.92%	0.637%
121	8.630	8.612	8.646	VV	83348	1291907	20.24%	0.462%
122	8.678	8.646	8.704	VV	240293	3831002	60.02%	1.369%
123	8.724	8.704	8.741	VV	57975	1112042	17.42%	0.397%
124	8.753	8.741	8.775	VV	49807	843285	13.21%	0.301%
125	8.799	8.775	8.811	VV	47065	867369	13.59%	0.310%
126	8.822	8.811	8.871	VV	54066	1506540	23.60%	0.538%
127	8.900	8.871	8.922	VV	57453	1443624	22.62%	0.516%
128	8.935	8.922	8.956	VV	47911	924466	14.48%	0.330%
129	8.982	8.956	9.010	VV	45936	1327676	20.80%	0.474%
130	9.044	9.010	9.067	VV	57439	1396790	21.88%	0.499%
131	9.089	9.067	9.130	VV	39941	1264409	19.81%	0.452%
132	9.160	9.130	9.174	VV	30500	719031	11.26%	0.257%
133	9.194	9.174	9.212	VV	36102	719700	11.27%	0.257%
134	9.222	9.212	9.228	VV	29587	279524	4.38%	0.100%
135	9.258	9.228	9.303	VV	33651	1274713	19.97%	0.456%
136	9.333	9.303	9.368	VV	72375	1698155	26.60%	0.607%
137	9.378	9.368	9.390	VV	32767	417397	6.54%	0.149%
138	9.415	9.390	9.441	VV	48488	1085647	17.01%	0.388%
139	9.495	9.441	9.542	VV	36711	1564568	24.51%	0.559%
140	9.574	9.542	9.629	VV	19151	892329	13.98%	0.319%
141	9.650	9.629	9.668	VV	20493	422260	6.62%	0.151%

142	9.694	9.668	9.723	VV	33516	844037	13.22%	0.302%
143	9.738	9.723	9.757	VV	25459	450344	7.05%	0.161%
144	9.768	9.757	9.780	VV	18938	251283	3.94%	0.090%
145	9.799	9.780	9.829	VV	21166	593543	9.30%	0.212%
146	9.841	9.829	9.884	VV	21140	573767	8.99%	0.205%
147	9.909	9.884	9.928	VV	15408	374616	5.87%	0.134%
148	9.950	9.928	9.991	VV	16499	548497	8.59%	0.196%
149	10.013	9.991	10.041	VV	16404	410513	6.43%	0.147%
150	10.084	10.041	10.096	VV	18639	465106	7.29%	0.166%
151	10.125	10.096	10.154	VV	57639	1088301	17.05%	0.389%
152	10.173	10.154	10.248	VV	14575	688927	10.79%	0.246%
153	10.271	10.248	10.296	VV	13595	311854	4.89%	0.111%
154	10.315	10.296	10.345	VV	9131	246449	3.86%	0.088%
155	10.371	10.345	10.381	VV	9578	195507	3.06%	0.070%
156	10.406	10.381	10.432	VV	12119	313582	4.91%	0.112%
157	10.452	10.432	10.461	VV	11381	171870	2.69%	0.061%
158	10.473	10.461	10.514	VV	11128	319349	5.00%	0.114%
159	10.547	10.514	10.577	VV	44500	824040	12.91%	0.294%
160	10.591	10.577	10.624	VV	10422	251366	3.94%	0.090%
161	10.653	10.624	10.713	VV	7545	371474	5.82%	0.133%
162	10.734	10.713	10.773	VV	7327	239490	3.75%	0.086%
163	10.801	10.773	10.834	VV	7723	256916	4.02%	0.092%
164	10.866	10.834	10.909	VV	10415	327468	5.13%	0.117%
165	10.925	10.909	10.941	VV	5503	102093	1.60%	0.036%
166	10.952	10.941	10.992	VV	5597	160277	2.51%	0.057%
167	11.000	10.992	11.020	VV	5032	82100	1.29%	0.029%
168	11.031	11.020	11.055	VV	4840	97506	1.53%	0.035%
169	11.106	11.055	11.148	VV	5451	265510	4.16%	0.095%
170	11.174	11.148	11.218	VV	7187	213530	3.35%	0.076%
171	11.266	11.218	11.309	VV	15318	379710	5.95%	0.136%
172	11.330	11.309	11.357	VV	4236	104369	1.64%	0.037%
173	11.374	11.357	11.399	VV	3618	79861	1.25%	0.029%
174	11.470	11.399	11.514	VV	3996	239646	3.75%	0.086%
175	11.542	11.514	11.555	VV	3592	75339	1.18%	0.027%
176	11.573	11.555	11.604	VV	3626	92564	1.45%	0.033%
177	11.633	11.604	11.651	VV	2983	79898	1.25%	0.029%
178	11.657	11.651	11.710	VV	2993	95298	1.49%	0.034%
179	11.728	11.710	11.759	VV	3012	77642	1.22%	0.028%
180	11.781	11.759	11.791	VV	2716	49043	0.77%	0.018%
181	11.825	11.791	11.923	VV	5208	237205	3.72%	0.085%
182	11.952	11.923	11.959	VV	2446	52795	0.83%	0.019%
183	11.973	11.959	12.020	VV	2608	80689	1.26%	0.029%
184	12.060	12.020	12.099	VV	2615	105762	1.66%	0.038%
185	12.124	12.099	12.182	VV	2252	96913	1.52%	0.035%
186	12.201	12.182	12.221	VV	1762	39157	0.61%	0.014%
187	12.254	12.221	12.271	VV	1889	51806	0.81%	0.019%
188	12.285	12.271	12.311	VV	1689	38205	0.60%	0.014%
189	12.345	12.311	12.380	VV	2401	74104	1.16%	0.026%
190	12.420	12.380	12.456	VV	2352	77890	1.22%	0.028%
191	12.484	12.456	12.535	VV	3853	89769	1.41%	0.032%
192	12.547	12.535	12.565	VV	1280	20932	0.33%	0.007%
193	12.581	12.565	12.612	VV	1324	34378	0.54%	0.012%
194	12.629	12.612	12.694	VV	1324	46528	0.73%	0.017%

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195	12.702	12.694	12.713	VV	803	8637	0.14%	0.003%
196	12.744	12.713	12.789	VV	1103	41498	0.65%	0.015%
197	12.806	12.789	12.825	VV	918	17166	0.27%	0.006%
198	12.841	12.825	12.877	VV	933	25971	0.41%	0.009%
199	12.928	12.877	13.077	VV	298870	3675045	57.57%	1.313%
200	13.092	13.077	13.136	VV	1209	36708	0.58%	0.013%
201	13.158	13.136	13.182	VV	1097	25923	0.41%	0.009%
202	13.205	13.182	13.241	VV	806	24101	0.38%	0.009%
203	13.256	13.241	13.277	VV	656	13377	0.21%	0.005%
204	13.316	13.277	13.348	VV	1049	32991	0.52%	0.012%
205	13.366	13.348	13.431	VV	972	34560	0.54%	0.012%
206	13.435	13.431	13.459	VV	539	7514	0.12%	0.003%
207	13.477	13.459	13.494	VV	529	9648	0.15%	0.003%
208	13.536	13.494	13.567	VV	741	25023	0.39%	0.009%
209	13.594	13.567	13.608	VV	690	13723	0.21%	0.005%
210	13.627	13.608	13.652	VV	1155	20078	0.31%	0.007%
211	13.679	13.652	13.752	VV	3233	56977	0.89%	0.020%
212	13.777	13.752	13.796	VV	397	7970	0.12%	0.003%
213	13.808	13.796	13.814	VV	277	2756	0.04%	0.001%
214	13.831	13.814	13.869	VV	349	7106	0.11%	0.003%
215	13.917	13.869	13.955	VV	700	20223	0.32%	0.007%
216	13.975	13.955	13.992	VV	417	6948	0.11%	0.002%
217	14.008	13.992	14.031	VV	294	5327	0.08%	0.002%
218	14.058	14.031	14.066	VV	361	5869	0.09%	0.002%
219	14.075	14.066	14.089	VV	468	4988	0.08%	0.002%
220	14.116	14.089	14.163	VV	1293	26279	0.41%	0.009%
221	14.181	14.163	14.213	VV	460	10663	0.17%	0.004%
222	14.241	14.213	14.283	VV	2451	39397	0.62%	0.014%
223	14.311	14.283	14.327	VV	388	8267	0.13%	0.003%
224	14.372	14.327	14.455	VV	526	26430	0.41%	0.009%
225	14.465	14.455	14.470	VV	254	1948	0.03%	0.001%
226	14.489	14.470	14.522	VV	456	9688	0.15%	0.003%
227	14.532	14.522	14.539	VV	296	2637	0.04%	0.001%
228	14.552	14.539	14.577	VV	320	5594	0.09%	0.002%
229	14.592	14.577	14.612	VV	324	4804	0.08%	0.002%
230	14.630	14.612	14.720	VV	308	10078	0.16%	0.004%
231	14.738	14.720	14.753	VV	579	8340	0.13%	0.003%
232	14.781	14.753	14.824	VV	4850	70446	1.10%	0.025%
233	14.833	14.824	14.865	VV	297	5001	0.08%	0.002%
234	14.877	14.865	14.896	VV	130	2107	0.03%	0.001%
235	14.908	14.896	14.973	VV	108	3989	0.06%	0.001%
236	15.031	14.973	15.064	VV	197	5932	0.09%	0.002%
237	15.118	15.064	15.180	VV	197	7400	0.12%	0.003%
238	15.208	15.180	15.261	VV	330	7838	0.12%	0.003%
239	15.300	15.261	15.403	PV	4564	70531	1.10%	0.025%
240	15.422	15.403	15.453	PV	114	2313	0.04%	0.001%
241	15.475	15.453	15.485	VV	111	1509	0.02%	0.001%
242	15.511	15.485	15.540	VV	193	3017	0.05%	0.001%
243	15.621	15.540	15.648	VV	513	14524	0.23%	0.005%
244	15.662	15.648	15.719	VV	279	6591	0.10%	0.002%
245	15.762	15.719	15.774	PV	494	7571	0.12%	0.003%
246	15.801	15.774	15.877	VV	5671	88579	1.39%	0.032%

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247	15.888	15.877	15.915	VV	147	1839	0.03%	0.001%
248	15.991	15.915	16.050	PV	267	10358	0.16%	0.004%
249	16.060	16.050	16.069	VV	107	905	0.01%	0.000%
250	16.114	16.069	16.144	VV	446	11354	0.18%	0.004%
251	16.159	16.144	16.205	VV	251	5305	0.08%	0.002%
252	16.236	16.205	16.244	VV	246	3683	0.06%	0.001%
253	16.283	16.244	16.321	VV	5015	77220	1.21%	0.028%
254	16.327	16.321	16.348	VV	350	4301	0.07%	0.002%
255	16.355	16.348	16.388	VV	239	5730	0.09%	0.002%
256	16.395	16.388	16.417	VV	267	3559	0.06%	0.001%
257	16.479	16.417	16.495	VV	414	13764	0.22%	0.005%
258	16.508	16.495	16.538	VV	419	8246	0.13%	0.003%
259	16.544	16.538	16.563	VV	289	4198	0.07%	0.001%
260	16.583	16.563	16.613	VV	520	11572	0.18%	0.004%
261	16.631	16.613	16.662	VV	463	10716	0.17%	0.004%
262	16.671	16.662	16.694	VV	377	5904	0.09%	0.002%
263	16.749	16.694	16.812	VV	5244	100966	1.58%	0.036%
264	16.846	16.812	16.865	VV	355	9426	0.15%	0.003%
265	16.872	16.865	16.887	VV	336	3671	0.06%	0.001%
266	16.901	16.887	16.914	VV	315	4532	0.07%	0.002%
267	16.924	16.914	16.941	VV	295	4669	0.07%	0.002%
268	16.978	16.941	17.007	VV	620	18099	0.28%	0.006%
269	17.036	17.007	17.068	VV	609	17311	0.27%	0.006%
270	17.077	17.068	17.114	VV	529	13600	0.21%	0.005%
271	17.151	17.114	17.171	VV	688	19809	0.31%	0.007%
272	17.199	17.171	17.269	VV	4243	86262	1.35%	0.031%
273	17.305	17.269	17.334	VV	1037	33800	0.53%	0.012%
274	17.404	17.334	17.425	VV	1197	57358	0.90%	0.020%
275	17.482	17.425	17.503	VV	1351	55149	0.86%	0.020%
276	17.522	17.503	17.581	VV	1336	55479	0.87%	0.020%
277	17.634	17.581	17.707	VV	4250	131431	2.06%	0.047%
278	17.767	17.707	17.830	VV	1683	88449	1.39%	0.032%
279	17.920	17.830	17.995	VV	1473	118987	1.86%	0.043%
280	18.006	17.995	18.025	VV	1225	21053	0.33%	0.008%
281	18.058	18.025	18.111	VV	3488	93414	1.46%	0.033%
282	18.136	18.111	18.183	VV	1766	53993	0.85%	0.019%
283	18.196	18.183	18.231	VV	1051	28190	0.44%	0.010%
284	18.321	18.231	18.394	VV	1330	111516	1.75%	0.040%
285	18.466	18.394	18.540	VV	3737	145233	2.28%	0.052%
286	18.558	18.540	18.581	VV	1359	31310	0.49%	0.011%
287	18.607	18.581	18.661	VV	1543	66877	1.05%	0.024%
288	18.672	18.661	18.687	VV	1438	21384	0.33%	0.008%
289	18.728	18.687	18.744	VV	1622	51641	0.81%	0.018%
290	18.768	18.744	18.782	VV	1622	36156	0.57%	0.013%
291	18.798	18.782	18.824	VV	1655	40318	0.63%	0.014%
292	18.864	18.824	18.931	VV	3258	139116	2.18%	0.050%
293	18.954	18.931	18.983	VV	2123	60756	0.95%	0.022%
294	19.035	18.983	19.079	VV	2429	123716	1.94%	0.044%
295	19.111	19.079	19.131	VV	2294	67063	1.05%	0.024%
296	19.249	19.131	19.318	VV	4265	309865	4.85%	0.111%
297	19.361	19.318	19.370	VV	2900	85473	1.34%	0.031%
298	19.386	19.370	19.401	VV	2954	54607	0.86%	0.020%
299	19.481	19.401	19.491	VV	3289	166320	2.61%	0.059%

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300	19.549	19.491	19.591	VV	3740	206064	3.23%	0.074%
301	19.622	19.591	19.681	VV	4369	198177	3.10%	0.071%
302	19.691	19.681	19.704	VV	3487	46815	0.73%	0.017%
303	19.789	19.704	19.796	VV	3844	201927	3.16%	0.072%
304	19.832	19.796	19.840	VV	4029	103523	1.62%	0.037%
305	19.889	19.840	19.917	VV	4458	194329	3.04%	0.069%
306	19.989	19.917	20.008	VV	5794	263592	4.13%	0.094%
307	20.043	20.008	20.070	VV	6584	227201	3.56%	0.081%
308	20.142	20.070	20.217	VV	7501	592543	9.28%	0.212%
309	20.261	20.217	20.281	VV	6385	244713	3.83%	0.087%
310	20.344	20.281	20.384	VV	7351	420878	6.59%	0.150%
311	20.445	20.384	20.474	VV	7240	384437	6.02%	0.137%
312	20.515	20.474	20.597	VV	8376	557465	8.73%	0.199%
313	20.709	20.597	20.739	VV	8049	643975	10.09%	0.230%
314	20.747	20.739	20.756	VV	7341	73188	1.15%	0.026%
315	20.761	20.756	20.774	VV	7381	78650	1.23%	0.028%
316	20.785	20.774	20.858	VV	7375	364174	5.71%	0.130%
317	20.890	20.858	20.911	VV	7142	224391	3.52%	0.080%
318	20.937	20.911	20.979	VV	7132	288931	4.53%	0.103%
319	21.041	20.979	21.096	VV	8010	517347	8.10%	0.185%
320	21.120	21.096	21.176	VV	7228	334804	5.24%	0.120%
321	21.232	21.176	21.262	VV	7167	364672	5.71%	0.130%
322	21.276	21.262	21.308	VV	7058	192129	3.01%	0.069%
323	21.314	21.308	21.419	VV	7077	455405	7.13%	0.163%
324	21.584	21.419	21.622	VV	7985	906589	14.20%	0.324%
325	21.650	21.622	21.718	VV	7666	417407	6.54%	0.149%
326	21.732	21.718	21.744	VV	6698	105029	1.65%	0.038%
327	21.750	21.744	21.764	VV	6673	76729	1.20%	0.027%
328	21.828	21.764	21.851	VV	6833	351475	5.51%	0.126%
329	21.862	21.851	21.876	VV	6801	102568	1.61%	0.037%
330	21.890	21.876	21.905	VV	6833	118925	1.86%	0.042%
331	21.914	21.905	21.951	VV	6774	182332	2.86%	0.065%
332	21.964	21.951	21.998	VV	6648	184135	2.88%	0.066%
333	22.006	21.998	22.014	VV	6697	66633	1.04%	0.024%
334	22.029	22.014	22.035	VV	6723	81043	1.27%	0.029%
335	22.072	22.035	22.101	VBA	6886	277707	4.35%	0.099%

Sum of corrected areas: 279842165

Aliphatic EPH 111424.M Sat Nov 16 10:01:27 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-17		SDG No.:	P4839	
Lab Sample ID:	P4839-09		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.7	
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
FD048748.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	14.9	E	0.33	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16	27.6	E	0.38	1.11	mg/kg
Aromatic C16-C21	Aromatic C16-C21	9.19		1.07	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.23	U	2.23	2.97	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	61.7		40 - 140	123%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	59.1		40 - 140	118%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.1		40 - 140	50%	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:	P4839-09	Acq On:	15 Nov 2024 17:03
Client Sample ID:	EX-9-TPH-17	Operator:	YP/AJ
Data file:	FD048748.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	38610529	201.078	200	ug/ml
Aromatic C12-C16	5.806	8.411	71664456	372.362	300	ug/ml
Aromatic C16-C21	8.412	12.674	22993305	123.75	500	ug/ml
Aromatic C21-C36	12.675	18.081	4039343	25.69	800	ug/ml
Aromatic EPH	4.088	18.081	137307633	722.881		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	4836419	25.15		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	10860750	61.69		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	6806342	59.1		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048748.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:03
Operator : YP/AJ
Sample : P4839-09
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-17

Integration File: sample.E
Quant Time: Nov 16 09:51:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.369	10860750	61.688 ug/ml
Spiked Amount 50.000		Recovery = 123.38%	
6) S 2-Flurobiphenyl (SURR)	8.219	6806342	59.098 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 118.20%	
11) S ortho-Terphenyl (SURR)	11.252	4836419	25.146 ug/ml
Spiked Amount 50.000		Recovery = 50.29%	
Target Compounds			

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

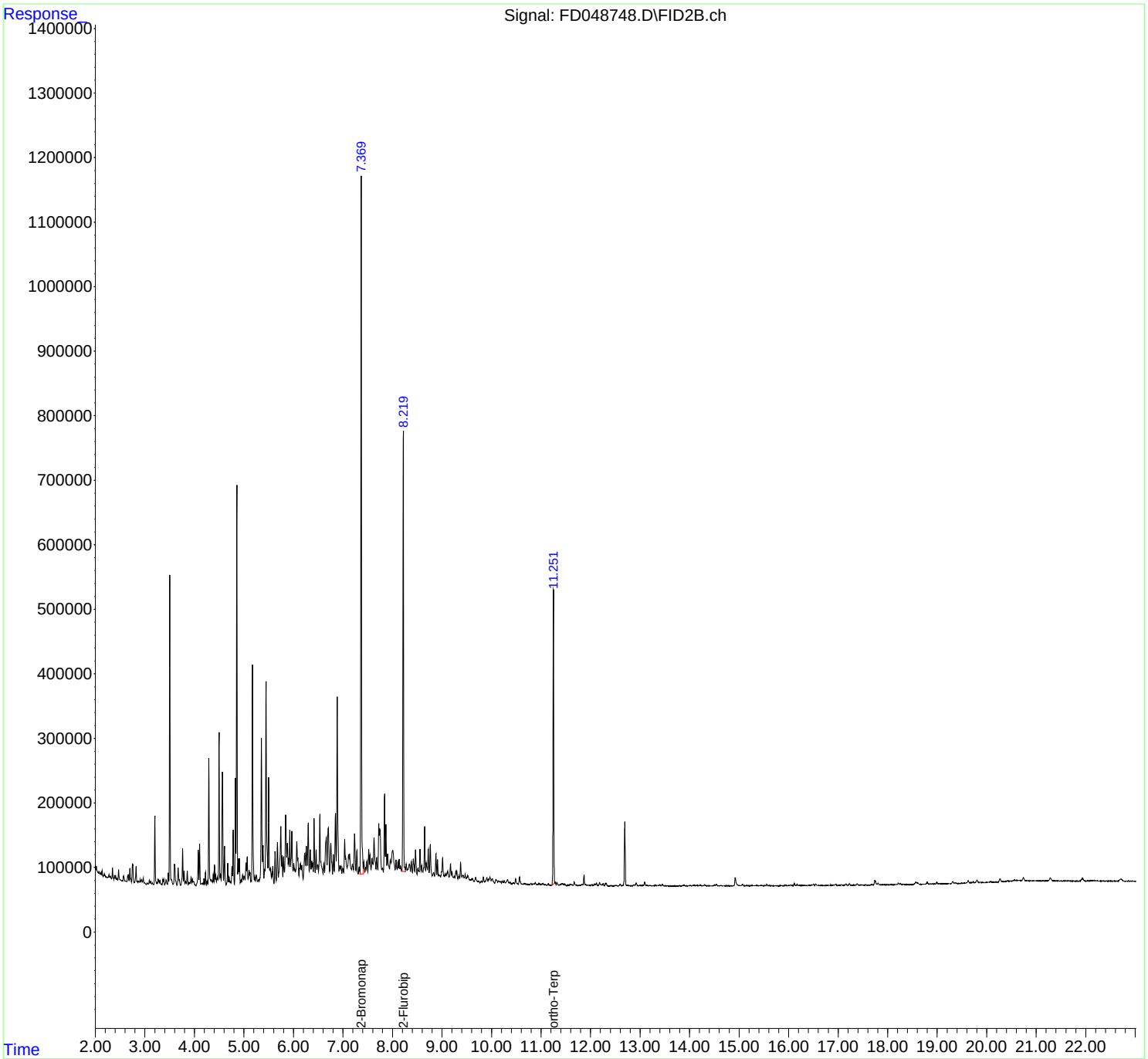
Quantitation Report (QT Reviewed)

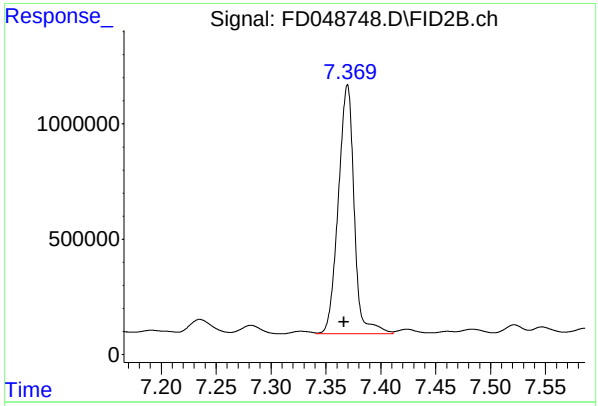
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048748.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:03
Operator : YP/AJ
Sample : P4839-09
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-17

Integration File: sample.E
Quant Time: Nov 16 09:51:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

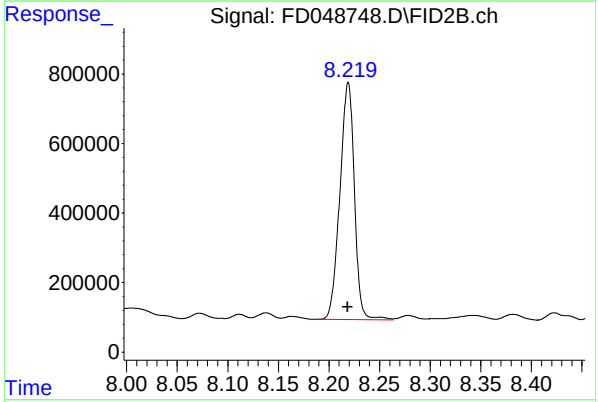




#4 2-Bromonaphthalene (SURR)

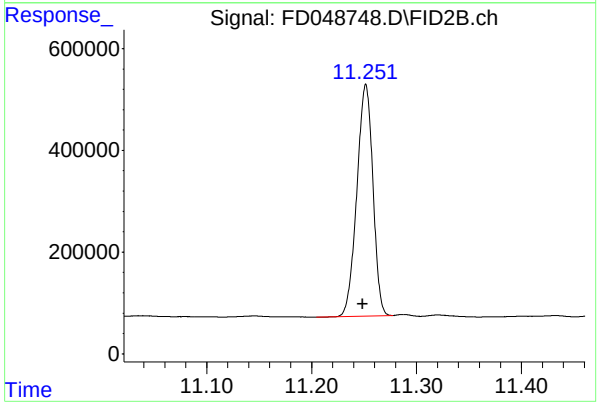
R.T.: 7.369 min
Delta R.T.: 0.003 min
Response: 10860750
Conc: 61.69 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-17



#6 2-Flurobiphenyl (SURR)

R.T.: 8.219 min
Delta R.T.: 0.000 min
Response: 6806342
Conc: 59.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: 0.003 min
Response: 4836419
Conc: 25.15 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048748.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:03
Sample : P4839-09
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.078	4.042	4.091	PV	47830	401540	3.47%	0.267%
2	4.105	4.091	4.129	PV	58328	484806	4.19%	0.323%
3	4.159	4.129	4.177	PV	2317	33231	0.29%	0.022%
4	4.193	4.177	4.207	PV	9512	78333	0.68%	0.052%
5	4.224	4.207	4.241	VV	19628	168864	1.46%	0.112%
6	4.254	4.241	4.272	PV	5904	55345	0.48%	0.037%
7	4.292	4.272	4.333	VV	196392	1825162	15.76%	1.216%
8	4.342	4.333	4.364	VV	8373	120445	1.04%	0.080%
9	4.381	4.364	4.393	VV	16221	170654	1.47%	0.114%
10	4.407	4.393	4.419	VV	31472	283594	2.45%	0.189%
11	4.428	4.419	4.445	VV	15163	157738	1.36%	0.105%
12	4.460	4.445	4.471	VV	11292	139131	1.20%	0.093%
13	4.476	4.471	4.480	VV	9563	50297	0.43%	0.034%
14	4.498	4.480	4.518	VV	236151	2080182	17.96%	1.386%
15	4.526	4.518	4.539	VV	17516	172256	1.49%	0.115%
16	4.567	4.539	4.590	VV	175117	2315615	20.00%	1.542%
17	4.608	4.590	4.642	VV	59918	638752	5.52%	0.425%
18	4.673	4.642	4.689	VV	33498	340061	2.94%	0.226%
19	4.702	4.689	4.719	VV	12425	145687	1.26%	0.097%
20	4.728	4.719	4.739	VV	5311	51170	0.44%	0.034%
21	4.759	4.739	4.768	VV	28662	275804	2.38%	0.184%
22	4.783	4.768	4.808	VV	85113	893403	7.71%	0.595%
23	4.829	4.808	4.841	VV	165629	1477703	12.76%	0.984%
24	4.857	4.841	4.877	VV	619572	5534573	47.79%	3.686%
25	4.888	4.877	4.899	VV	40664	391800	3.38%	0.261%
26	4.909	4.899	4.927	VV	41575	396717	3.43%	0.264%
27	4.943	4.927	4.956	VV	7933	109627	0.95%	0.073%
28	4.975	4.956	4.990	VV	15990	224756	1.94%	0.150%
29	5.002	4.990	5.022	VV	14047	215632	1.86%	0.144%
30	5.043	5.022	5.055	VV	34446	439425	3.79%	0.293%
31	5.066	5.055	5.083	VV	43958	467420	4.04%	0.311%
32	5.105	5.083	5.116	VV	23540	306504	2.65%	0.204%
33	5.124	5.116	5.139	VV	20047	191257	1.65%	0.127%
34	5.173	5.139	5.210	VV	341311	3524076	30.43%	2.347%
35	5.220	5.210	5.232	VV	12219	131436	1.13%	0.088%
36	5.248	5.232	5.277	VV	15318	281907	2.43%	0.188%

37	5.297	5.277	5.308	VV	8683	129535	1.12%	0.086%
38	5.354	5.308	5.377	VV	227106	2816883	24.32%	1.876%
39	5.387	5.377	5.403	VV	61399	615062	5.31%	0.410%
40	5.422	5.403	5.428	VV	24948	289753	2.50%	0.193%
41	5.447	5.428	5.484	VV	315427	3764707	32.51%	2.508%
42	5.500	5.484	5.530	VV	166830	1835895	15.85%	1.223%
43	5.539	5.530	5.553	VV	26014	291187	2.51%	0.194%
44	5.562	5.553	5.570	VV	17299	155437	1.34%	0.104%
45	5.583	5.570	5.608	VV	29513	356782	3.08%	0.238%
46	5.629	5.608	5.654	VV	52269	586820	5.07%	0.391%
47	5.678	5.654	5.697	VV	65907	881782	7.61%	0.587%
48	5.745	5.697	5.761	VV	90989	1658567	14.32%	1.105%
49	5.771	5.761	5.786	VV	45832	480605	4.15%	0.320%
50	5.800	5.786	5.819	VV	44124	574151	4.96%	0.382%
51	5.843	5.819	5.864	VV	108618	1772346	15.30%	1.180%
52	5.878	5.864	5.895	VV	64995	953139	8.23%	0.635%
53	5.903	5.895	5.913	VV	42454	397714	3.43%	0.265%
54	5.927	5.913	5.942	VV	85439	948478	8.19%	0.632%
55	5.968	5.942	5.993	VV	83644	1395686	12.05%	0.930%
56	6.007	5.993	6.020	VV	34324	449392	3.88%	0.299%
57	6.027	6.020	6.042	VV	25062	305495	2.64%	0.203%
58	6.069	6.042	6.084	VV	67662	1057126	9.13%	0.704%
59	6.089	6.084	6.111	VV	41172	497477	4.30%	0.331%
60	6.141	6.111	6.156	VV	33671	707415	6.11%	0.471%
61	6.169	6.156	6.197	VV	30766	527309	4.55%	0.351%
62	6.229	6.197	6.244	VV	49320	912455	7.88%	0.608%
63	6.262	6.244	6.277	VV	60445	903837	7.80%	0.602%
64	6.299	6.277	6.319	VV	96545	1412483	12.20%	0.941%
65	6.341	6.319	6.357	VV	55100	859583	7.42%	0.573%
66	6.370	6.357	6.380	VV	37324	429653	3.71%	0.286%
67	6.388	6.380	6.402	VV	34332	393028	3.39%	0.262%
68	6.417	6.402	6.440	VV	103814	1222140	10.55%	0.814%
69	6.459	6.440	6.475	VV	55314	747526	6.45%	0.498%
70	6.492	6.475	6.507	VV	32179	540165	4.66%	0.360%
71	6.534	6.507	6.550	VV	110068	1463955	12.64%	0.975%
72	6.555	6.550	6.598	VV	36237	801968	6.93%	0.534%
73	6.614	6.598	6.631	VV	34188	509786	4.40%	0.340%
74	6.663	6.631	6.680	VV	73927	1556420	13.44%	1.037%
75	6.704	6.680	6.731	VV	88932	1804253	15.58%	1.202%
76	6.756	6.731	6.791	VV	65458	1413106	12.20%	0.941%
77	6.806	6.791	6.825	VV	48194	651946	5.63%	0.434%
78	6.849	6.825	6.865	VV	111616	1555990	13.44%	1.036%
79	6.885	6.865	6.922	VV	292161	3846738	33.22%	2.562%
80	6.941	6.922	6.953	VV	31022	515996	4.46%	0.344%
81	6.963	6.953	6.978	VV	29519	371974	3.21%	0.248%
82	6.996	6.978	7.013	VV	26024	478211	4.13%	0.319%
83	7.036	7.013	7.050	VV	71599	1016506	8.78%	0.677%
84	7.056	7.050	7.085	VV	42436	720143	6.22%	0.480%
85	7.114	7.085	7.124	VV	47969	867036	7.49%	0.577%
86	7.134	7.124	7.175	VV	48708	1066361	9.21%	0.710%
87	7.191	7.175	7.215	VV	32641	672147	5.80%	0.448%
88	7.235	7.215	7.263	VV	80183	1397431	12.07%	0.931%
89	7.282	7.263	7.310	VV	54257	945067	8.16%	0.629%

90	7.327	7.310	7.342	VV	28414	460523	3.98%	0.307%
91	7.370	7.342	7.411	VV	1101688	11580718	100.00%	7.713%
92	7.424	7.411	7.446	VV	37099	613780	5.30%	0.409%
93	7.461	7.446	7.468	VV	28238	334635	2.89%	0.223%
94	7.483	7.468	7.503	VV	37211	634432	5.48%	0.423%
95	7.522	7.503	7.535	VV	56232	777918	6.72%	0.518%
96	7.547	7.535	7.567	VV	47462	700949	6.05%	0.467%
97	7.587	7.567	7.608	VV	41787	841562	7.27%	0.561%
98	7.629	7.608	7.665	VV	73713	1561952	13.49%	1.040%
99	7.681	7.665	7.705	VV	42645	782589	6.76%	0.521%
100	7.724	7.705	7.734	VV	95815	1086173	9.38%	0.723%
101	7.742	7.734	7.785	VV	88002	1848564	15.96%	1.231%
102	7.798	7.785	7.817	VV	26750	475296	4.10%	0.317%
103	7.841	7.817	7.856	VV	142077	1772614	15.31%	1.181%
104	7.869	7.856	7.888	VV	94306	1162021	10.03%	0.774%
105	7.903	7.888	7.940	VV	48751	1110910	9.59%	0.740%
106	7.956	7.940	7.973	VV	39694	670962	5.79%	0.447%
107	8.005	7.973	8.055	VV	54412	2055931	17.75%	1.369%
108	8.072	8.055	8.097	VV	39902	770377	6.65%	0.513%
109	8.112	8.097	8.123	VV	36827	489438	4.23%	0.326%
110	8.138	8.123	8.153	VV	40713	588468	5.08%	0.392%
111	8.163	8.153	8.189	VV	30464	571433	4.93%	0.381%
112	8.219	8.189	8.245	VV	704782	7482423	64.61%	4.984%
113	8.251	8.245	8.264	VV	28441	295384	2.55%	0.197%
114	8.278	8.264	8.297	VV	33718	555106	4.79%	0.370%
115	8.342	8.297	8.365	VV	33472	1137845	9.83%	0.758%
116	8.382	8.365	8.405	VV	36695	697395	6.02%	0.465%
117	8.423	8.405	8.449	VV	41076	814774	7.04%	0.543%
118	8.466	8.449	8.496	VV	55183	967330	8.35%	0.644%
119	8.513	8.496	8.525	VV	26511	399909	3.45%	0.266%
120	8.531	8.525	8.539	VV	23560	193921	1.67%	0.129%
121	8.557	8.539	8.577	VV	56343	851558	7.35%	0.567%
122	8.590	8.577	8.615	VV	31049	581442	5.02%	0.387%
123	8.651	8.615	8.669	VV	91688	1400049	12.09%	0.933%
124	8.682	8.669	8.707	VV	35377	675160	5.83%	0.450%
125	8.724	8.707	8.742	VV	56413	767669	6.63%	0.511%
126	8.765	8.742	8.803	VV	64168	1192863	10.30%	0.795%
127	8.833	8.803	8.851	VV	20119	503120	4.34%	0.335%
128	8.879	8.851	8.896	VV	49209	780799	6.74%	0.520%
129	8.911	8.896	8.929	VV	40340	519362	4.48%	0.346%
130	8.939	8.929	8.952	VV	16903	221622	1.91%	0.148%
131	8.961	8.952	8.973	VV	15445	188115	1.62%	0.125%
132	9.013	8.973	9.036	VV	42851	914679	7.90%	0.609%
133	9.043	9.036	9.055	VV	15948	178375	1.54%	0.119%
134	9.069	9.055	9.083	VV	18436	284605	2.46%	0.190%
135	9.117	9.083	9.144	VV	22173	652364	5.63%	0.435%
136	9.173	9.144	9.190	VV	33342	598975	5.17%	0.399%
137	9.203	9.190	9.234	VV	21657	422070	3.64%	0.281%
138	9.248	9.234	9.262	VV	14825	229335	1.98%	0.153%
139	9.280	9.262	9.291	VV	22524	312725	2.70%	0.208%
140	9.300	9.291	9.322	VV	22662	321732	2.78%	0.214%
141	9.340	9.322	9.360	VV	14862	295351	2.55%	0.197%

142	9.377	9.360	9.403	VV	36725	563615	4.87%	0.375%
143	9.420	9.403	9.447	VV	16450	384329	3.32%	0.256%
144	9.470	9.447	9.486	VV	17444	325347	2.81%	0.217%
145	9.502	9.486	9.508	VV	13431	161683	1.40%	0.108%
146	9.522	9.508	9.557	VV	15855	377138	3.26%	0.251%
147	9.566	9.557	9.578	VV	9187	110460	0.95%	0.074%
148	9.611	9.578	9.643	VV	10651	363044	3.13%	0.242%
149	9.680	9.643	9.730	VV	12915	450008	3.89%	0.300%
150	9.745	9.730	9.767	VV	6866	133795	1.16%	0.089%
151	9.783	9.767	9.790	VV	6527	81802	0.71%	0.054%
152	9.798	9.790	9.812	VV	6587	79539	0.69%	0.053%
153	9.837	9.812	9.859	VV	13470	247553	2.14%	0.165%
154	9.907	9.859	9.927	VV	12522	354455	3.06%	0.236%
155	9.940	9.927	9.951	VV	10583	132490	1.14%	0.088%
156	9.969	9.951	9.994	VV	13280	277843	2.40%	0.185%
157	10.014	9.994	10.064	VV	10605	323593	2.79%	0.216%
158	10.088	10.064	10.100	VV	9810	161646	1.40%	0.108%
159	10.105	10.100	10.125	VV	8615	110884	0.96%	0.074%
160	10.142	10.125	10.161	VV	7870	143101	1.24%	0.095%
161	10.180	10.161	10.195	VV	6988	126538	1.09%	0.084%
162	10.222	10.195	10.238	VV	6911	150941	1.30%	0.101%
163	10.257	10.238	10.286	VV	8184	169630	1.46%	0.113%
164	10.325	10.286	10.354	VV	9868	278364	2.40%	0.185%
165	10.378	10.354	10.407	VV	5612	137383	1.19%	0.092%
166	10.442	10.407	10.464	VV	4405	124583	1.08%	0.083%
167	10.488	10.464	10.540	VV	10996	236027	2.04%	0.157%
168	10.565	10.540	10.612	VV	13815	273342	2.36%	0.182%
169	10.620	10.612	10.634	VV	2788	34439	0.30%	0.023%
170	10.660	10.634	10.692	VV	3264	104124	0.90%	0.069%
171	10.715	10.692	10.737	VV	2886	64623	0.56%	0.043%
172	10.742	10.737	10.758	VV	2128	26191	0.23%	0.017%
173	10.764	10.758	10.775	VV	2056	18325	0.16%	0.012%
174	10.800	10.775	10.820	VV	4132	78775	0.68%	0.052%
175	10.835	10.820	10.848	VV	3421	46275	0.40%	0.031%
176	10.857	10.848	10.868	VV	3078	34759	0.30%	0.023%
177	10.886	10.868	10.907	VV	4392	78754	0.68%	0.052%
178	10.912	10.907	10.921	VV	2163	17504	0.15%	0.012%
179	10.929	10.921	10.938	VV	2236	21625	0.19%	0.014%
180	10.955	10.938	10.993	VV	4352	96867	0.84%	0.065%
181	11.013	10.993	11.025	VV	3070	50387	0.44%	0.034%
182	11.036	11.025	11.070	VV	3467	69354	0.60%	0.046%
183	11.080	11.070	11.093	VV	1831	22836	0.20%	0.015%
184	11.102	11.093	11.116	VV	1560	18282	0.16%	0.012%
185	11.145	11.116	11.167	VV	3134	60886	0.53%	0.041%
186	11.176	11.167	11.204	VV	1568	27431	0.24%	0.018%
187	11.252	11.204	11.277	VV	459633	4943358	42.69%	3.293%
188	11.287	11.277	11.304	VV	6018	72252	0.62%	0.048%
189	11.320	11.304	11.360	VV	5065	99447	0.86%	0.066%
190	11.399	11.360	11.410	VV	2567	56697	0.49%	0.038%
191	11.432	11.410	11.451	VV	3789	71406	0.62%	0.048%
192	11.468	11.451	11.513	VV	3518	72070	0.62%	0.048%
193	11.518	11.513	11.525	VV	734	4701	0.04%	0.003%
194	11.540	11.525	11.561	VV	1022	19467	0.17%	0.013%

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195	11.589	11.561	11.618	VV	2592	67092	0.58%	0.045%
196	11.627	11.618	11.647	VV	2141	28778	0.25%	0.019%
197	11.672	11.647	11.728	VV	6196	114339	0.99%	0.076%
198	11.734	11.728	11.737	VV	874	3897	0.03%	0.003%
199	11.748	11.737	11.755	VV	963	9461	0.08%	0.006%
200	11.780	11.755	11.801	VV	1497	32090	0.28%	0.021%
201	11.830	11.801	11.848	VV	2549	52031	0.45%	0.035%
202	11.868	11.848	11.930	VV	17357	243449	2.10%	0.162%
203	11.954	11.930	11.972	VV	1418	30857	0.27%	0.021%
204	11.978	11.972	11.994	VV	1066	12406	0.11%	0.008%
205	12.027	11.994	12.056	VV	2006	49846	0.43%	0.033%
206	12.078	12.056	12.090	VV	3294	46181	0.40%	0.031%
207	12.096	12.090	12.107	VV	2656	24587	0.21%	0.016%
208	12.121	12.107	12.148	VV	4879	66378	0.57%	0.044%
209	12.154	12.148	12.160	VV	1103	7155	0.06%	0.005%
210	12.182	12.160	12.204	VV	5387	88067	0.76%	0.059%
211	12.212	12.204	12.233	VV	2282	35731	0.31%	0.024%
212	12.253	12.233	12.278	VV	3949	58048	0.50%	0.039%
213	12.303	12.278	12.383	VV	4291	103819	0.90%	0.069%
214	12.399	12.383	12.410	VV	723	7350	0.06%	0.005%
215	12.421	12.410	12.441	VV	852	9166	0.08%	0.006%
216	12.453	12.441	12.464	VV	327	2178	0.02%	0.001%
217	12.492	12.464	12.514	VV	803	15297	0.13%	0.010%
218	12.525	12.514	12.540	VV	795	9568	0.08%	0.006%
219	12.543	12.540	12.572	VV	653	7479	0.06%	0.005%
220	12.594	12.572	12.640	VV	3004	53541	0.46%	0.036%
221	12.693	12.640	12.723	VV	100053	1180700	10.20%	0.786%
222	12.744	12.723	12.809	VV	1616	54248	0.47%	0.036%
223	12.814	12.809	12.822	VV	556	3774	0.03%	0.003%
224	12.832	12.822	12.842	VV	460	4248	0.04%	0.003%
225	12.871	12.842	12.897	VV	1941	44108	0.38%	0.029%
226	12.920	12.897	12.964	VV	4829	89463	0.77%	0.060%
227	12.990	12.964	13.001	VV	1244	20134	0.17%	0.013%
228	13.009	13.001	13.052	VV	1410	33948	0.29%	0.023%
229	13.093	13.052	13.122	VV	6471	108998	0.94%	0.073%
230	13.126	13.122	13.140	VV	1519	14664	0.13%	0.010%
231	13.148	13.140	13.167	VV	1422	16612	0.14%	0.011%
232	13.191	13.167	13.242	VV	1230	38181	0.33%	0.025%
233	13.249	13.242	13.255	VV	532	3941	0.03%	0.003%
234	13.304	13.255	13.321	VV	1163	29898	0.26%	0.020%
235	13.358	13.321	13.373	VV	1409	36478	0.31%	0.024%
236	13.398	13.373	13.423	VV	2370	43177	0.37%	0.029%
237	13.448	13.423	13.488	VV	3087	58447	0.50%	0.039%
238	13.502	13.488	13.528	VV	893	15873	0.14%	0.011%
239	13.548	13.528	13.555	VV	732	9120	0.08%	0.006%
240	13.557	13.555	13.574	VV	549	5240	0.05%	0.003%
241	13.579	13.574	13.611	VV	433	6076	0.05%	0.004%
242	13.631	13.611	13.635	PV	619	5087	0.04%	0.003%
243	13.640	13.635	13.651	VV	607	4280	0.04%	0.003%
244	13.656	13.651	13.667	VV	413	3465	0.03%	0.002%
245	13.677	13.667	13.692	VV	464	5253	0.05%	0.003%
246	13.695	13.692	13.700	VV	388	1831	0.02%	0.001%

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247	13.704	13.700	13.714	VV	352	2787	0.02%	0.002%
248	13.739	13.714	13.757	VV	539	9334	0.08%	0.006%
249	13.794	13.757	13.822	VV	1016	21189	0.18%	0.014%
250	13.884	13.822	13.901	VV	1806	43317	0.37%	0.029%
251	13.914	13.901	13.948	VV	984	18890	0.16%	0.013%
252	13.955	13.948	13.960	VV	510	2649	0.02%	0.002%
253	13.964	13.960	13.977	VV	481	4151	0.04%	0.003%
254	14.004	13.977	14.055	VV	1306	38160	0.33%	0.025%
255	14.080	14.055	14.089	VV	1577	23876	0.21%	0.016%
256	14.093	14.089	14.117	VV	1386	19287	0.17%	0.013%
257	14.122	14.117	14.144	VV	1251	15552	0.13%	0.010%
258	14.165	14.144	14.175	VV	1401	18711	0.16%	0.012%
259	14.181	14.175	14.192	VV	906	8559	0.07%	0.006%
260	14.220	14.192	14.257	VV	2152	45881	0.40%	0.031%
261	14.269	14.257	14.275	VV	882	7509	0.06%	0.005%
262	14.299	14.275	14.337	VV	2252	43796	0.38%	0.029%
263	14.340	14.337	14.352	VV	888	5926	0.05%	0.004%
264	14.355	14.352	14.369	VV	688	5284	0.05%	0.004%
265	14.384	14.369	14.405	VV	755	11501	0.10%	0.008%
266	14.409	14.405	14.437	VV	590	8070	0.07%	0.005%
267	14.471	14.437	14.480	VV	554	11270	0.10%	0.008%
268	14.501	14.480	14.520	VV	1904	31841	0.27%	0.021%
269	14.542	14.520	14.573	VV	2960	53184	0.46%	0.035%
270	14.587	14.573	14.610	VV	877	15673	0.14%	0.010%
271	14.615	14.610	14.622	VV	745	4995	0.04%	0.003%
272	14.631	14.622	14.661	VV	1001	16773	0.14%	0.011%
273	14.669	14.661	14.690	VV	452	6376	0.06%	0.004%
274	14.715	14.690	14.728	VV	624	10297	0.09%	0.007%
275	14.732	14.728	14.741	VV	573	3844	0.03%	0.003%
276	14.751	14.741	14.765	VV	514	6439	0.06%	0.004%
277	14.779	14.765	14.818	VV	550	10155	0.09%	0.007%
278	14.836	14.818	14.842	VV	423	4502	0.04%	0.003%
279	14.843	14.842	14.870	VV	448	4812	0.04%	0.003%
280	14.920	14.870	15.021	VV	13074	295756	2.55%	0.197%
281	15.028	15.021	15.038	VV	766	6771	0.06%	0.005%
282	15.068	15.038	15.115	VV	2975	62992	0.54%	0.042%
283	15.118	15.115	15.127	VV	443	2802	0.02%	0.002%
284	15.169	15.127	15.212	VV	871	31164	0.27%	0.021%
285	15.222	15.212	15.240	VV	534	8324	0.07%	0.006%
286	15.260	15.240	15.280	VV	947	16907	0.15%	0.011%
287	15.284	15.280	15.308	VV	670	10478	0.09%	0.007%
288	15.313	15.308	15.335	VV	699	9980	0.09%	0.007%
289	15.369	15.335	15.396	VV	877	25209	0.22%	0.017%
290	15.415	15.396	15.421	VV	793	9067	0.08%	0.006%
291	15.446	15.421	15.498	VV	903	28034	0.24%	0.019%
292	15.518	15.498	15.538	VV	1019	15030	0.13%	0.010%
293	15.558	15.538	15.590	VV	2610	38238	0.33%	0.025%
294	15.607	15.590	15.640	VV	770	16214	0.14%	0.011%
295	15.643	15.640	15.660	VV	400	2994	0.03%	0.002%
296	15.668	15.660	15.690	VV	276	3355	0.03%	0.002%
297	15.729	15.690	15.735	PV	480	9068	0.08%	0.006%
298	15.752	15.735	15.779	VV	561	12324	0.11%	0.008%
299	15.786	15.779	15.823	VV	510	9448	0.08%	0.006%

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300	15.848	15.823	15.871	VV	662	12042	0.10%	0.008%
301	15.876	15.871	15.882	VV	525	2075	0.02%	0.001%
302	15.894	15.882	15.903	VV	534	4561	0.04%	0.003%
303	15.934	15.903	15.985	VV	1573	40024	0.35%	0.027%
304	15.993	15.985	15.998	VV	512	3259	0.03%	0.002%
305	16.007	15.998	16.015	VV	721	5259	0.05%	0.004%
306	16.039	16.015	16.073	VV	1545	32126	0.28%	0.021%
307	16.076	16.073	16.078	VV	596	1613	0.01%	0.001%
308	16.086	16.078	16.091	VV	613	4360	0.04%	0.003%
309	16.115	16.091	16.148	VV	3233	49806	0.43%	0.033%
310	16.172	16.148	16.198	VV	2172	38409	0.33%	0.026%
311	16.202	16.198	16.212	VV	774	5810	0.05%	0.004%
312	16.220	16.212	16.257	VV	767	14502	0.13%	0.010%
313	16.265	16.257	16.280	VV	577	6095	0.05%	0.004%
314	16.291	16.280	16.305	VV	614	6991	0.06%	0.005%
315	16.309	16.305	16.317	VV	620	3100	0.03%	0.002%
316	16.322	16.317	16.328	VV	377	2234	0.02%	0.001%
317	16.332	16.328	16.353	VV	551	4977	0.04%	0.003%
318	16.385	16.353	16.395	VV	572	11361	0.10%	0.008%
319	16.415	16.395	16.437	VV	955	17326	0.15%	0.012%
320	16.469	16.437	16.481	VV	1121	22000	0.19%	0.015%
321	16.502	16.481	16.523	VV	2716	39954	0.35%	0.027%
322	16.544	16.523	16.576	VV	2760	44445	0.38%	0.030%
323	16.581	16.576	16.590	VV	508	3375	0.03%	0.002%
324	16.592	16.590	16.599	VV	475	2337	0.02%	0.002%
325	16.610	16.599	16.628	VV	570	6483	0.06%	0.004%
326	16.633	16.628	16.648	VV	324	2671	0.02%	0.002%
327	16.672	16.654	16.681	VV	400	4075	0.04%	0.003%
328	16.688	16.681	16.719	VV	394	6314	0.05%	0.004%
329	16.726	16.719	16.743	VV	275	2847	0.02%	0.002%
330	16.773	16.753	16.778	VV	340	2923	0.03%	0.002%
331	16.800	16.778	16.818	VV	681	9064	0.08%	0.006%
332	16.822	16.818	16.853	VV	369	5762	0.05%	0.004%
333	16.873	16.853	16.894	VV	938	14841	0.13%	0.010%
334	16.903	16.894	16.910	VV	535	4736	0.04%	0.003%
335	16.916	16.910	16.927	VV	642	5795	0.05%	0.004%
336	16.951	16.927	16.982	VV	2271	37597	0.32%	0.025%
337	17.015	16.982	17.028	VV	456	7615	0.07%	0.005%
338	17.033	17.028	17.046	VV	501	4645	0.04%	0.003%
339	17.072	17.046	17.112	VV	990	22565	0.19%	0.015%
340	17.154	17.112	17.201	VV	2187	47759	0.41%	0.032%
341	17.225	17.201	17.262	VV	2326	41247	0.36%	0.027%
342	17.263	17.262	17.268	VV	493	1428	0.01%	0.001%
343	17.278	17.268	17.283	VV	464	3325	0.03%	0.002%
344	17.288	17.283	17.295	VV	503	2949	0.03%	0.002%
345	17.320	17.295	17.327	VV	766	10816	0.09%	0.007%
346	17.331	17.327	17.342	VV	739	5942	0.05%	0.004%
347	17.350	17.342	17.361	VV	811	8314	0.07%	0.006%
348	17.384	17.361	17.409	VV	2756	44771	0.39%	0.030%
349	17.420	17.409	17.436	VV	564	6852	0.06%	0.005%
350	17.470	17.436	17.498	VV	1132	26009	0.22%	0.017%
351	17.505	17.498	17.510	VV	582	3836	0.03%	0.003%

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352	17.529	17.510	17.566	VV	681	15487	0.13%	0.010%
353	17.575	17.566	17.610	VV	441	6041	0.05%	0.004%
354	17.629	17.610	17.636	PV	553	4182	0.04%	0.003%
355	17.642	17.636	17.650	VV	387	2704	0.02%	0.002%
356	17.682	17.650	17.708	VV	1479	29166	0.25%	0.019%
357	17.742	17.708	17.788	VV	7820	166702	1.44%	0.111%
358	17.806	17.788	17.832	VV	3476	54241	0.47%	0.036%
359	17.839	17.832	17.860	VV	806	10748	0.09%	0.007%
360	17.865	17.860	17.880	VV	541	5469	0.05%	0.004%
361	17.885	17.880	17.892	VV	559	3259	0.03%	0.002%
362	17.897	17.892	17.913	VV	534	4724	0.04%	0.003%
363	17.932	17.913	17.955	VV	417	7850	0.07%	0.005%
364	17.960	17.955	17.967	VV	353	2161	0.02%	0.001%
365	17.972	17.967	17.978	VV	234	1467	0.01%	0.001%
366	17.988	17.978	18.000	VV	313	3132	0.03%	0.002%
367	18.005	18.000	18.023	VV	271	2888	0.02%	0.002%
368	18.026	18.023	18.037	VV	258	1310	0.01%	0.001%
369	18.050	18.037	18.055	PV	372	2774	0.02%	0.002%
370	18.065	18.055	18.071	VV	446	3865	0.03%	0.003%
371	18.077	18.071	18.124	VV	400	5962	0.05%	0.004%
372	18.174	18.124	18.188	PV	254	2711	0.02%	0.002%
			Sum of corrected areas:			150137670		

Aromatic EPH 111424.M Sat Nov 16 10:28:57 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-17		SDG No.:	P4839	
Lab Sample ID:	P4839-09		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.7	
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
FC067800.D	5	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	53.1		2.12	5.57	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	72.1		1.34	3.71	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	5.22	J	1.67	5.57	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	4.45	U	4.45	7.42	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.35	J	10.0	11.1	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	5.28		40 - 140	53%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-09DL	Acq On:	18 Nov 2024 10:02
Client Sample ID:	P4839-09DL	Operator:	YP/AJ
Data file:	FC067800.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	23729318	143.128	300	ug/ml
Aliphatic C12-C16	6.449	9.838	33088139	194.197	200	ug/ml
Aliphatic C16-C21	9.839	13.196	2386978	14.072	300	ug/ml
Aliphatic C21-C28	13.197	16.850	379145	2.411	400	ug/ml
Aliphatic C28-C40	16.851	21.691	2071109	17.101	600	ug/ml
Aliphatic EPH	3.172	21.691	61654689	370.908		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.926	12.926	766711	5.28		ug/ml
Aliphatic C9-C28	3.172	16.850	59583580	353.808	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067800.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:02
Operator : YP/AJ
Sample : P4839-09DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-17DL

Integration File: sample.E
Quant Time: Nov 19 04:54:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.926	766711	5.282 ug/ml
Spiked Amount 50.000		Recovery = 10.56%	
Target Compounds			

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

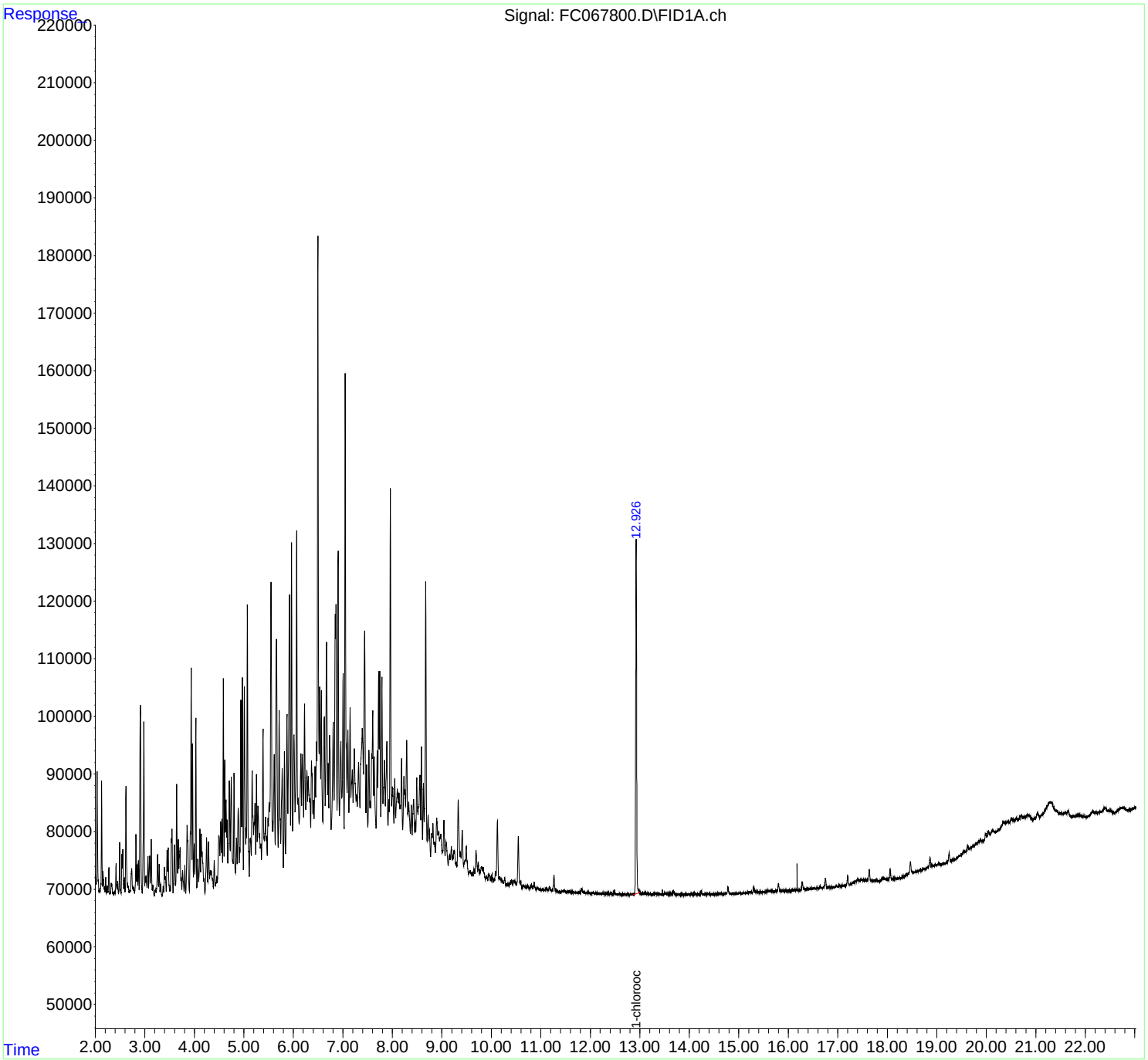
Quantitation Report (QT Reviewed)

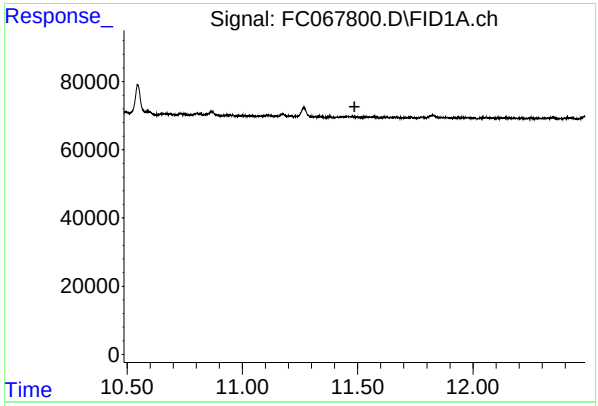
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067800.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:02
Operator : YP/AJ
Sample : P4839-09DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-17DL

Integration File: sample.E
Quant Time: Nov 19 04:54:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

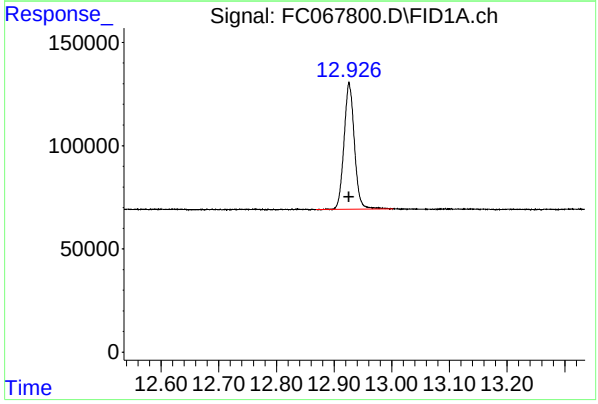




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-17DL



#12 1-chlorooctadecane (SURR)

R.T.: 12.926 min
Delta R.T.: 0.000 min
Response: 766711
Conc: 5.28 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067800.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 10:02
Sample : P4839-09DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.257	3.224	3.276	BV	6537	76163	5.01%	0.122%
2	3.290	3.276	3.306	VV	5013	46786	3.08%	0.075%
3	3.318	3.306	3.349	VV	1822	21208	1.39%	0.034%
4	3.370	3.349	3.380	PV	1604	14759	0.97%	0.024%
5	3.396	3.380	3.431	VV	4950	87575	5.76%	0.140%
6	3.449	3.431	3.459	VV	7872	75239	4.95%	0.120%
7	3.471	3.459	3.500	VV	8312	106180	6.98%	0.170%
8	3.548	3.500	3.571	VV	11587	210868	13.87%	0.338%
9	3.596	3.571	3.618	VV	8844	128228	8.43%	0.205%
10	3.642	3.618	3.662	VV	19130	218968	14.40%	0.351%
11	3.677	3.662	3.689	VV	9745	107692	7.08%	0.172%
12	3.711	3.689	3.747	VV	8260	172473	11.34%	0.276%
13	3.762	3.747	3.792	VV	4332	68437	4.50%	0.110%
14	3.808	3.792	3.825	VV	5261	52561	3.46%	0.084%
15	3.854	3.825	3.898	VV	12148	248412	16.34%	0.398%
16	3.936	3.898	3.951	VV	39491	481712	31.69%	0.771%
17	3.964	3.951	3.983	VV	26414	260859	17.16%	0.418%
18	3.996	3.983	4.011	VV	9033	101677	6.69%	0.163%
19	4.030	4.011	4.052	VV	30928	309250	20.34%	0.495%
20	4.070	4.052	4.087	VV	6272	83729	5.51%	0.134%
21	4.113	4.087	4.126	VV	11673	147620	9.71%	0.236%
22	4.140	4.126	4.152	VV	10739	125877	8.28%	0.202%
23	4.158	4.152	4.214	VV	7623	148445	9.76%	0.238%
24	4.248	4.214	4.268	VV	10119	152480	10.03%	0.244%
25	4.287	4.268	4.309	VV	9249	135648	8.92%	0.217%
26	4.323	4.309	4.334	VV	4328	58687	3.86%	0.094%
27	4.344	4.334	4.384	VV	4304	94340	6.21%	0.151%
28	4.402	4.384	4.426	VV	6051	85622	5.63%	0.137%
29	4.452	4.426	4.464	VV	3300	57194	3.76%	0.092%
30	4.496	4.464	4.515	VV	10282	224358	14.76%	0.359%
31	4.531	4.515	4.544	VV	12863	172157	11.32%	0.276%
32	4.557	4.544	4.570	VV	13350	156977	10.33%	0.251%
33	4.587	4.570	4.602	VV	37661	378863	24.92%	0.607%
34	4.615	4.602	4.628	VV	23525	258376	17.00%	0.414%
35	4.640	4.628	4.675	VV	16573	336974	22.17%	0.540%
36	4.706	4.675	4.724	VV	19926	347616	22.87%	0.557%

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37	4.746	4.724	4.783	VV	20717	411958	27.10%	0.660%
38	4.802	4.783	4.829	VV	21254	288896	19.00%	0.463%
39	4.853	4.829	4.866	VV	10014	152831	10.05%	0.245%
40	4.887	4.866	4.907	VV	15001	264743	17.41%	0.424%
41	4.940	4.907	4.955	VV	33867	469525	30.88%	0.752%
42	4.971	4.955	4.991	VV	37775	438529	28.85%	0.702%
43	5.011	4.991	5.038	VV	36069	528136	34.74%	0.846%
44	5.071	5.038	5.109	VV	50345	751771	49.45%	1.204%
45	5.131	5.109	5.149	VV	9780	189107	12.44%	0.303%
46	5.168	5.149	5.197	VV	21709	415749	27.35%	0.666%
47	5.225	5.197	5.240	VV	15979	318258	20.93%	0.510%
48	5.256	5.240	5.271	VV	20749	269787	17.75%	0.432%
49	5.287	5.271	5.332	VV	15384	419887	27.62%	0.672%
50	5.343	5.332	5.357	VV	9030	121239	7.97%	0.194%
51	5.387	5.357	5.415	VV	28877	524725	34.52%	0.840%
52	5.438	5.415	5.472	VV	13599	355906	23.41%	0.570%
53	5.511	5.472	5.522	VV	16149	391049	25.72%	0.626%
54	5.549	5.522	5.589	VV	54370	1043447	68.64%	1.671%
55	5.614	5.589	5.632	VV	24658	434140	28.56%	0.695%
56	5.659	5.632	5.693	VV	44190	932637	61.35%	1.493%
57	5.714	5.693	5.746	VV	32078	550541	36.21%	0.882%
58	5.775	5.746	5.798	VV	21922	441072	29.01%	0.706%
59	5.820	5.798	5.842	VV	24794	359451	23.64%	0.576%
60	5.871	5.842	5.889	VV	31452	531861	34.98%	0.852%
61	5.922	5.889	5.945	VV	51916	1049790	69.05%	1.681%
62	5.964	5.945	5.984	VV	61325	757706	49.84%	1.213%
63	6.013	5.984	6.036	VV	27974	613721	40.37%	0.983%
64	6.067	6.036	6.117	VV	63207	1217849	80.11%	1.950%
65	6.153	6.117	6.168	VV	24580	545026	35.85%	0.873%
66	6.183	6.168	6.208	VV	24559	477878	31.43%	0.765%
67	6.227	6.208	6.252	VV	33159	590283	38.83%	0.945%
68	6.275	6.252	6.290	VV	21681	420368	27.65%	0.673%
69	6.302	6.290	6.351	VV	20526	628760	41.36%	1.007%
70	6.368	6.351	6.396	VV	23329	504044	33.15%	0.807%
71	6.406	6.396	6.419	VV	16442	216029	14.21%	0.346%
72	6.438	6.419	6.451	VV	22311	348609	22.93%	0.558%
73	6.469	6.451	6.476	VV	26628	346326	22.78%	0.555%
74	6.496	6.476	6.520	VV	113282	1520270	100.00%	2.434%
75	6.534	6.520	6.553	VV	36086	570461	37.52%	0.913%
76	6.567	6.553	6.595	VV	35586	580784	38.20%	0.930%
77	6.625	6.595	6.645	VV	30970	651792	42.87%	1.044%
78	6.670	6.645	6.694	VV	43797	869531	57.20%	1.392%
79	6.733	6.716	6.765	VV	27740	613219	40.34%	0.982%
80	6.805	6.765	6.824	VV	29913	691058	45.46%	1.107%
81	6.863	6.824	6.884	VV	50251	1254920	82.55%	2.009%
82	6.905	6.884	6.932	VV	59508	906509	59.63%	1.452%
83	6.959	6.932	6.981	VV	26726	595932	39.20%	0.954%
84	7.006	6.981	7.026	VV	38625	639924	42.09%	1.025%
85	7.049	7.026	7.086	VV	90775	1393369	91.65%	2.231%
86	7.103	7.086	7.123	VV	28620	486918	32.03%	0.780%
87	7.147	7.123	7.165	VV	32520	559875	36.83%	0.897%
88	7.233	7.207	7.292	VV	25522	981185	64.54%	1.571%
89	7.318	7.292	7.345	VV	22866	601046	39.54%	0.962%

90	7.393	7.345	7.415	VV	28486	1010269	66.45%	1.618%
91	7.441	7.415	7.467	VV	45869	953528	62.72%	1.527%
92	7.483	7.467	7.506	VV	22554	401086	26.38%	0.642%
93	7.528	7.506	7.562	VV	25172	598411	39.36%	0.958%
94	7.605	7.562	7.621	VV	31946	824648	54.24%	1.320%
95	7.634	7.621	7.672	VV	24016	539536	35.49%	0.864%
96	7.695	7.672	7.706	VV	25085	383363	25.22%	0.614%
97	7.724	7.706	7.736	VV	38559	534595	35.16%	0.856%
98	7.748	7.736	7.768	VV	38515	498507	32.79%	0.798%
99	7.790	7.768	7.812	VV	37827	642628	42.27%	1.029%
100	7.840	7.812	7.859	VV	23377	541754	35.64%	0.867%
101	7.890	7.859	7.913	VV	26725	640967	42.16%	1.026%
102	7.961	7.913	7.986	VV	70623	1217450	80.08%	1.949%
103	8.049	8.031	8.069	VV	20391	366929	24.14%	0.588%
104	8.102	8.069	8.126	VV	18394	565952	37.23%	0.906%
105	8.137	8.126	8.166	VV	17719	394165	25.93%	0.631%
106	8.187	8.166	8.210	VV	23646	456386	30.02%	0.731%
107	8.235	8.210	8.268	VV	20664	582531	38.32%	0.933%
108	8.291	8.268	8.314	VV	26943	561281	36.92%	0.899%
109	8.331	8.314	8.365	VV	15900	422055	27.76%	0.676%
110	8.431	8.401	8.454	VV	16591	440208	28.96%	0.705%
111	8.494	8.454	8.518	VV	20333	553719	36.42%	0.887%
112	8.557	8.518	8.572	VV	20886	545398	35.88%	0.873%
113	8.589	8.572	8.611	VV	25770	420833	27.68%	0.674%
114	8.629	8.611	8.644	VV	19368	300975	19.80%	0.482%
115	8.675	8.644	8.702	VV	54405	896022	58.94%	1.435%
116	8.723	8.702	8.739	VV	13993	258330	16.99%	0.414%
117	8.751	8.739	8.774	VV	11388	199011	13.09%	0.319%
118	8.822	8.807	8.870	VV	12546	372110	24.48%	0.596%
119	8.899	8.870	8.921	VV	13346	330780	21.76%	0.530%
120	8.934	8.921	8.954	VV	10938	213118	14.02%	0.341%
121	8.981	8.954	9.011	VV	10586	318997	20.98%	0.511%
122	9.043	9.011	9.066	VV	13109	311540	20.49%	0.499%
123	9.086	9.066	9.128	VV	9298	287228	18.89%	0.460%
124	9.194	9.174	9.211	VV	8407	162528	10.69%	0.260%
125	9.242	9.211	9.303	VV	7617	356738	23.47%	0.571%
126	9.332	9.303	9.366	VV	16582	384184	25.27%	0.615%
127	9.414	9.389	9.441	VV	11265	252024	16.58%	0.404%
128	9.494	9.441	9.541	VV	8463	352409	23.18%	0.564%
129	9.573	9.541	9.606	VV	4218	152731	10.05%	0.245%
130	9.650	9.628	9.667	VV	4546	95891	6.31%	0.154%
131	9.692	9.667	9.722	VV	7768	190015	12.50%	0.304%
132	9.737	9.722	9.780	VV	5770	158644	10.44%	0.254%
133	9.800	9.780	9.829	VV	4982	135546	8.92%	0.217%
134	9.840	9.829	9.884	VV	4802	127789	8.41%	0.205%
135	9.907	9.884	9.931	VV	3276	84845	5.58%	0.136%
136	9.952	9.931	9.990	VV	3594	113678	7.48%	0.182%
137	10.012	9.990	10.041	VV	3541	90018	5.92%	0.144%
138	10.083	10.041	10.095	VV	4076	101191	6.66%	0.162%
139	10.124	10.095	10.154	VV	12937	249012	16.38%	0.399%
140	10.172	10.154	10.201	VV	3162	81722	5.38%	0.131%
141	10.204	10.201	10.244	VV	2810	64029	4.21%	0.103%

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142	10.270	10.244	10.294	VV	3015	70761	4.65%	0.113%
143	10.312	10.294	10.343	VV	1950	52697	3.47%	0.084%
144	10.376	10.343	10.385	VV	2121	48797	3.21%	0.078%
145	10.407	10.385	10.434	VV	2657	67042	4.41%	0.107%
146	10.451	10.434	10.511	VV	2486	101718	6.69%	0.163%
147	10.547	10.511	10.579	VV	10171	196995	12.96%	0.315%
148	10.592	10.579	10.624	VV	2369	52515	3.45%	0.084%
149	10.655	10.624	10.718	VV	1667	82328	5.42%	0.132%
150	10.733	10.718	10.771	VV	1631	46059	3.03%	0.074%
151	10.802	10.771	10.832	VV	1742	54361	3.58%	0.087%
152	10.867	10.832	10.913	VV	2266	73184	4.81%	0.117%
153	10.948	10.913	10.968	VV	1263	36617	2.41%	0.059%
154	10.999	10.968	11.013	VV	1089	27161	1.79%	0.043%
155	11.030	11.013	11.061	VV	1067	27612	1.82%	0.044%
156	11.074	11.061	11.088	VV	952	14573	0.96%	0.023%
157	11.108	11.088	11.150	VV	1215	37969	2.50%	0.061%
158	11.175	11.150	11.222	VV	1514	44849	2.95%	0.072%
159	11.232	11.222	11.237	VV	879	7658	0.50%	0.012%
160	11.266	11.237	11.313	VV	3364	72270	4.75%	0.116%
161	11.330	11.313	11.364	VV	770	20732	1.36%	0.033%
162	11.375	11.364	11.401	VV	662	12076	0.79%	0.019%
163	11.465	11.401	11.512	VV	797	44048	2.90%	0.071%
164	11.567	11.512	11.608	VV	716	33437	2.20%	0.054%
165	11.628	11.608	11.648	VV	579	11932	0.78%	0.019%
166	11.668	11.648	11.714	VV	571	18170	1.20%	0.029%
167	11.722	11.714	11.758	VV	503	11658	0.77%	0.019%
168	11.777	11.758	11.798	VV	507	11392	0.75%	0.018%
169	11.825	11.798	11.873	VV	1161	31623	2.08%	0.051%
170	11.883	11.873	11.925	VV	469	12676	0.83%	0.020%
171	11.949	11.925	12.017	VV	519	21560	1.42%	0.035%
172	12.060	12.017	12.100	VV	477	16767	1.10%	0.027%
173	12.109	12.100	12.116	VV	375	3138	0.21%	0.005%
174	12.124	12.116	12.192	VV	444	13274	0.87%	0.021%
175	12.201	12.192	12.239	VV	319	6552	0.43%	0.010%
176	12.258	12.239	12.278	VV	343	6067	0.40%	0.010%
177	12.346	12.278	12.374	VV	440	15212	1.00%	0.024%
178	12.382	12.374	12.387	VV	170	1349	0.09%	0.002%
179	12.420	12.387	12.458	VV	413	11253	0.74%	0.018%
180	12.484	12.458	12.534	VV	799	14921	0.98%	0.024%
181	12.541	12.534	12.554	VV	208	1907	0.13%	0.003%
182	12.565	12.554	12.577	VV	162	2063	0.14%	0.003%
183	12.598	12.577	12.612	VV	212	3542	0.23%	0.006%
184	12.633	12.612	12.664	VV	172	3391	0.22%	0.005%
185	12.687	12.664	12.708	VV	151	1736	0.11%	0.003%
186	12.726	12.708	12.754	VV	136	2624	0.17%	0.004%
187	12.765	12.754	12.824	VV	147	4057	0.27%	0.006%
188	12.841	12.824	12.878	VV	160	2961	0.19%	0.005%
189	12.926	12.878	13.052	VV	60128	796263	52.38%	1.275%
190	13.100	13.052	13.124	VV	343	11574	0.76%	0.019%
191	13.138	13.124	13.182	VV	328	7836	0.52%	0.013%
192	13.202	13.182	13.212	VV	212	2925	0.19%	0.005%
193	13.218	13.212	13.257	VV	180	3224	0.21%	0.005%
194	13.269	13.257	13.287	VV	168	2431	0.16%	0.004%

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195	13.314	13.287	13.353	VV	287	7804	0.51%	0.012%
196	13.371	13.353	13.422	VV	211	6163	0.41%	0.010%
197	13.433	13.422	13.448	VV	156	1458	0.10%	0.002%
198	13.501	13.448	13.574	VV	403	13646	0.90%	0.022%
199	13.626	13.574	13.653	VV	323	9330	0.61%	0.015%
200	13.679	13.653	13.714	VV	760	12508	0.82%	0.020%
201	13.725	13.714	13.802	VV	147	3963	0.26%	0.006%
202	13.811	13.802	13.859	VV	143	2191	0.14%	0.004%
203	13.896	13.882	13.910	PV	130	1391	0.09%	0.002%
204	13.919	13.910	14.002	VV	192	4154	0.27%	0.007%
205	14.011	14.002	14.021	VV	112	1013	0.07%	0.002%
206	14.031	14.021	14.042	VV	134	1310	0.09%	0.002%
207	14.052	14.042	14.080	VV	154	2249	0.15%	0.004%
208	14.116	14.080	14.139	VV	276	5555	0.37%	0.009%
209	14.147	14.139	14.171	VV	130	2041	0.13%	0.003%
210	14.183	14.171	14.201	VV	182	1827	0.12%	0.003%
211	14.243	14.201	14.324	VV	647	13028	0.86%	0.021%
212	14.329	14.324	14.348	VV	166	1294	0.09%	0.002%
213	14.403	14.348	14.428	VV	244	6640	0.44%	0.011%
214	14.435	14.428	14.468	VV	115	1500	0.10%	0.002%
215	14.472	14.468	14.532	PV	134	4010	0.26%	0.006%
216	14.579	14.532	14.604	VV	156	5760	0.38%	0.009%
217	14.617	14.604	14.680	VV	233	6474	0.43%	0.010%
218	14.732	14.680	14.753	VV	263	5710	0.38%	0.009%
219	14.782	14.753	14.848	VV	1215	22631	1.49%	0.036%
220	14.867	14.848	14.901	PV	162	2903	0.19%	0.005%
221	14.928	14.901	14.985	PV	112	4803	0.32%	0.008%
222	15.011	14.985	15.081	VV	219	6078	0.40%	0.010%
223	15.100	15.081	15.134	VV	144	3659	0.24%	0.006%
224	15.141	15.134	15.151	VV	127	1093	0.07%	0.002%
225	15.198	15.151	15.234	VV	303	8833	0.58%	0.014%
226	15.247	15.234	15.274	VV	209	4330	0.28%	0.007%
227	15.300	15.274	15.382	VV	1171	24966	1.64%	0.040%
228	15.389	15.382	15.404	VV	175	1713	0.11%	0.003%
229	15.418	15.404	15.428	VV	153	1996	0.13%	0.003%
230	15.436	15.428	15.444	VV	164	1345	0.09%	0.002%
231	15.448	15.444	15.464	VV	169	1324	0.09%	0.002%
232	15.514	15.464	15.568	VV	210	7851	0.52%	0.013%
233	15.624	15.568	15.638	VV	261	8151	0.54%	0.013%
234	15.660	15.638	15.712	VV	198	7281	0.48%	0.012%
235	15.765	15.712	15.774	PV	273	4528	0.30%	0.007%
236	15.800	15.774	15.874	VV	1406	26415	1.74%	0.042%
237	15.891	15.874	15.904	VV	169	1750	0.12%	0.003%
238	15.931	15.904	15.944	VV	180	2621	0.17%	0.004%
239	15.949	15.944	15.956	VV	166	725	0.05%	0.001%
240	15.983	15.956	16.008	VV	212	3940	0.26%	0.006%
241	16.048	16.008	16.089	VV	253	4150	0.27%	0.007%
242	16.116	16.089	16.143	VV	177	3631	0.24%	0.006%
243	16.154	16.143	16.171	VV	196	1676	0.11%	0.003%
244	16.178	16.171	16.200	VV	1755	4702	0.31%	0.008%
245	16.221	16.200	16.251	PV	181	2641	0.17%	0.004%
246	16.283	16.251	16.326	VV	1437	24092	1.58%	0.039%

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247	16.331	16.326	16.344	VV	176	1309	0.09%	0.002%
248	16.356	16.344	16.361	PV	187	1102	0.07%	0.002%
249	16.435	16.361	16.448	VV	166	6645	0.44%	0.011%
250	16.450	16.448	16.478	VV	146	1997	0.13%	0.003%
251	16.482	16.478	16.488	VV	167	741	0.05%	0.001%
252	16.515	16.488	16.545	VV	157	3820	0.25%	0.006%
253	16.586	16.545	16.604	VV	196	4003	0.26%	0.006%
254	16.660	16.604	16.678	VV	245	6600	0.43%	0.011%
255	16.684	16.678	16.692	VV	153	1008	0.07%	0.002%
256	16.749	16.692	16.831	VV	1736	32493	2.14%	0.052%
257	16.968	16.831	17.018	PV	132	4699	0.31%	0.008%
258	17.037	17.018	17.064	PV	191	2877	0.19%	0.005%
259	17.085	17.064	17.105	VV	150	2141	0.14%	0.003%
260	17.128	17.105	17.141	VV	106	1750	0.12%	0.003%
261	17.199	17.141	17.237	VV	1714	26885	1.77%	0.043%
262	17.319	17.237	17.332	VV	405	13422	0.88%	0.021%
263	17.477	17.332	17.574	VV	756	86382	5.68%	0.138%
264	17.635	17.574	17.734	VV	2166	61158	4.02%	0.098%
265	17.757	17.734	17.837	VV	285	10384	0.68%	0.017%
266	17.852	17.837	17.860	PV	118	709	0.05%	0.001%
267	17.917	17.860	17.997	VV	485	21821	1.44%	0.035%
268	18.008	17.997	18.026	VV	145	2014	0.13%	0.003%
269	18.057	18.026	18.084	VV	1881	28568	1.88%	0.046%
270	18.109	18.084	18.118	VV	184	2955	0.19%	0.005%
271	18.140	18.118	18.214	VV	304	6877	0.45%	0.011%
272	18.222	18.214	18.232	PV	108	610	0.04%	0.001%
273	18.245	18.232	18.261	VV	114	1134	0.07%	0.002%
274	18.266	18.261	18.271	PV	107	301	0.02%	0.000%
275	18.322	18.271	18.336	VV	288	5024	0.33%	0.008%
276	18.466	18.336	18.553	VV	2353	73001	4.80%	0.117%
277	18.634	18.553	18.648	VV	330	15845	1.04%	0.025%
278	18.674	18.648	18.691	VV	396	6499	0.43%	0.010%
279	18.722	18.691	18.741	VV	461	8846	0.58%	0.014%
280	18.761	18.741	18.778	VV	345	6167	0.41%	0.010%
281	18.863	18.778	18.922	VV	1940	56057	3.69%	0.090%
282	18.958	18.922	18.980	VV	415	11429	0.75%	0.018%
283	19.036	18.980	19.094	VV	450	16635	1.09%	0.027%
284	19.116	19.094	19.134	VV	205	2720	0.18%	0.004%
285	19.248	19.134	19.278	VV	1703	34302	2.26%	0.055%
286	19.489	19.278	19.511	VV	807	50578	3.33%	0.081%
287	19.552	19.511	19.590	VV	1274	45578	3.00%	0.073%
288	19.623	19.590	19.654	VV	1984	53192	3.50%	0.085%
289	19.682	19.654	19.691	VV	1301	27978	1.84%	0.045%
290	19.888	19.691	19.917	VV	2012	231272	15.21%	0.370%
291	19.927	19.917	19.947	VV	1920	33737	2.22%	0.054%
292	19.985	19.947	20.006	VV	2826	82730	5.44%	0.132%
293	20.043	20.006	20.078	VV	3277	117878	7.75%	0.189%
294	20.125	20.078	20.184	VV	3105	180248	11.86%	0.289%
295	20.342	20.184	20.364	VV	3962	337299	22.19%	0.540%
296	20.372	20.364	20.378	VV	3758	30902	2.03%	0.049%
297	20.386	20.378	20.408	VV	3730	65055	4.28%	0.104%
298	20.442	20.408	20.467	VV	3758	129623	8.53%	0.208%
299	20.511	20.467	20.544	VV	4130	173827	11.43%	0.278%

rteres
Sum of corrected areas: 62450952

Aliphatic EPH 111424.M Tue Nov 19 05:39:23 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-17DL		SDG No.:	P4839	
Lab Sample ID:	P4839-09DL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.7	
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
FD048758.D	5	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	16.0		1.67	3.71	mg/kg
Aromatic C12-C16	Aromatic C12-C16	25.1		1.89	5.57	mg/kg
Aromatic C16-C21	Aromatic C16-C21	11.0		5.35	9.28	mg/kg
Aromatic C21-C36	Aromatic C21-C36	11.1	U	11.1	14.8	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	12.6		40 - 140	126%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	11.1		40 - 140	111%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	5.17		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:	P4839-09DL	Acq On:	18 Nov 2024 09:25
Client Sample ID:	EX-9-TPH-17DL	Operator:	YP/AJ
Data file:	FD048758.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	8294136	43.195	200	ug/ml
Aromatic C12-C16	5.806	8.411	13020001	67.651	300	ug/ml
Aromatic C16-C21	8.412	12.674	5515951	29.687	500	ug/ml
Aromatic C21-C36	12.675	18.081	1242788	7.904	800	ug/ml
Aromatic EPH	4.088	18.081	28072876	148.436		ug/ml
2-Bromonaphthalene (SURR)	7.365	7.365	2217162	12.59		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	1281468	11.13		ug/ml
ortho-Terphenyl (SURR)	11.249	11.249	993945	5.17		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048758.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 09:25
Operator : YP/AJ
Sample : P4839-09DL 5X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-17DL

Integration File: sample.E
Quant Time: Nov 19 05:54:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.365	2217162	12.593 ug/ml
Spiked Amount 50.000		Recovery = 25.19%	
6) S 2-Flurobiphenyl (SURR)	8.217	1281468	11.127 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 22.25%	
11) S ortho-Terphenyl (SURR)	11.249	993945	5.168 ug/ml
Spiked Amount 50.000		Recovery = 10.34%	
Target Compounds			

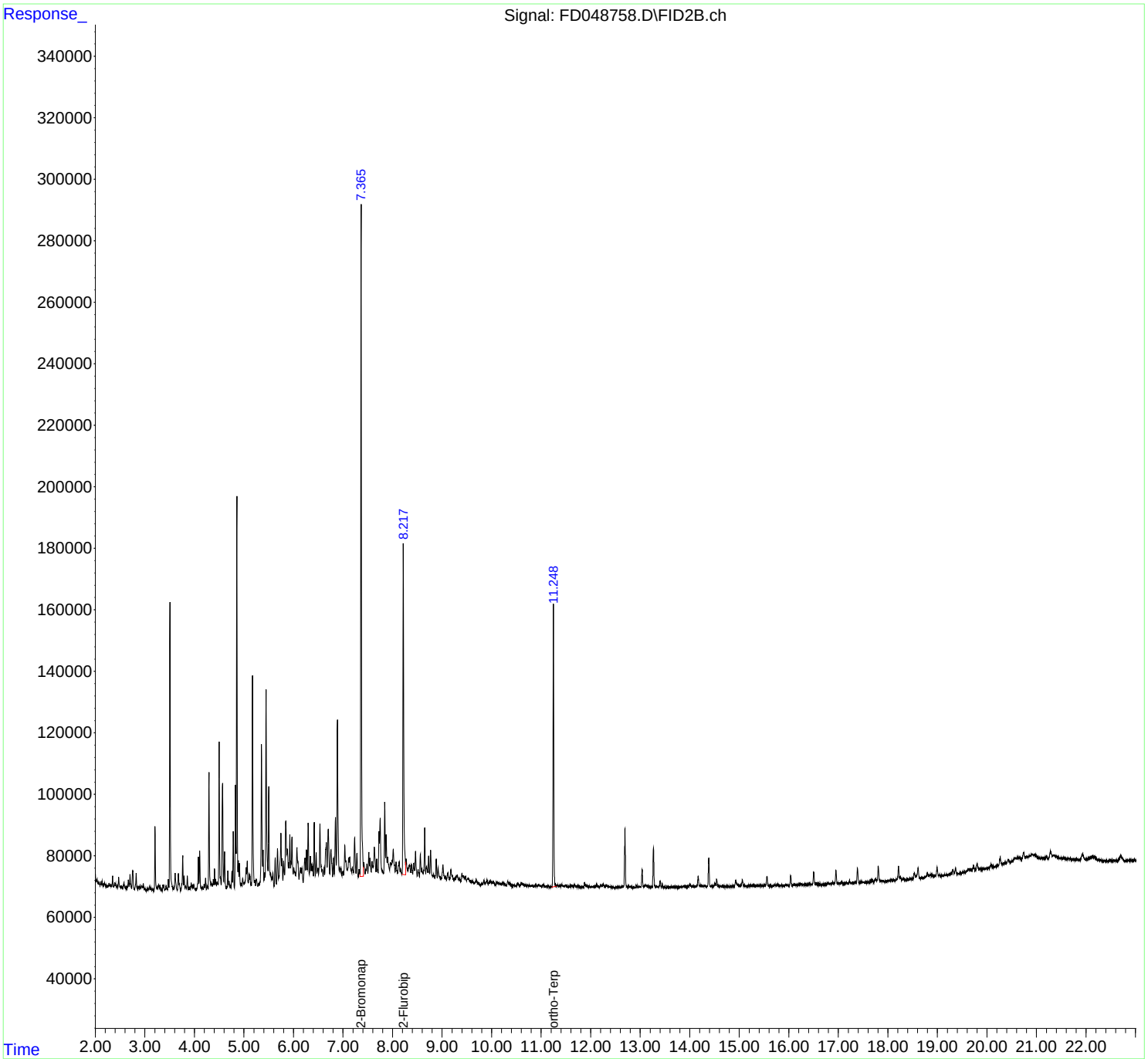
(f)=RT Delta > 1/2 Window (m)=manual int.

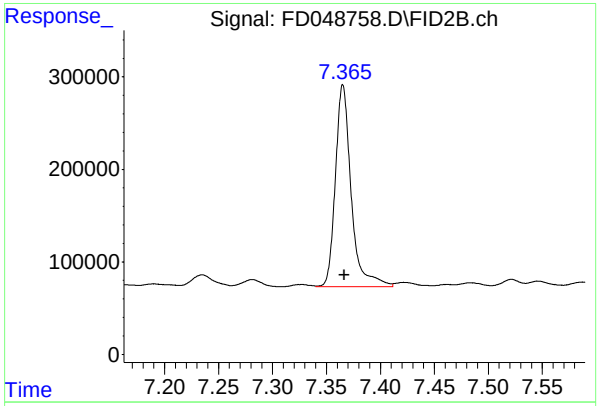
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048758.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 09:25
Operator : YP/AJ
Sample : P4839-09DL 5X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-17DL

Integration File: sample.E
Quant Time: Nov 19 05:54:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

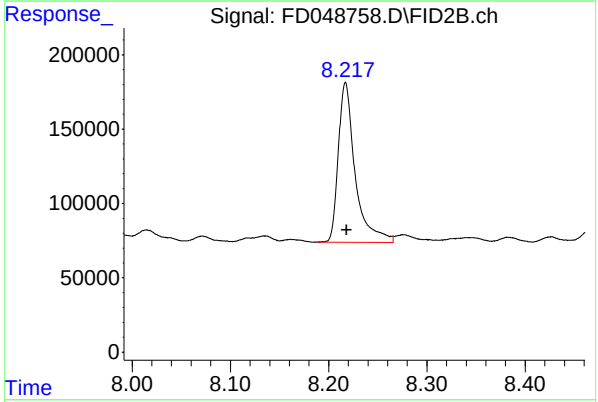




#4 2-Bromonaphthalene (SURR)

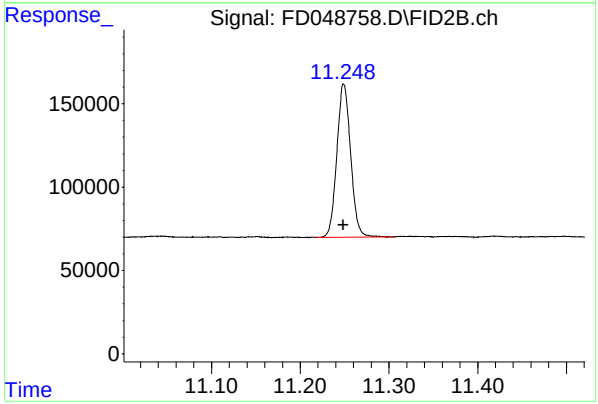
R.T.: 7.365 min
Delta R.T.: -0.001 min
Response: 2217162
Conc: 12.59 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-17DL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.001 min
Response: 1281468
Conc: 11.13 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 993945
Conc: 5.17 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048758.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 09:25
Sample : P4839-09DL 5X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.080	4.042	4.093	BV	10615	108143	4.53%	0.327%
2	4.106	4.093	4.130	VV	12723	124552	5.22%	0.376%
3	4.135	4.130	4.150	VV	687	5812	0.24%	0.018%
4	4.161	4.150	4.179	VV	622	6876	0.29%	0.021%
5	4.196	4.179	4.210	VV	1843	18441	0.77%	0.056%
6	4.226	4.210	4.242	VV	3788	35906	1.51%	0.109%
7	4.257	4.242	4.274	VV	1359	14195	0.60%	0.043%
8	4.294	4.274	4.332	VV	38133	383223	16.06%	1.158%
9	4.341	4.332	4.363	VV	2070	31643	1.33%	0.096%
10	4.382	4.363	4.393	VV	3349	38665	1.62%	0.117%
11	4.406	4.393	4.419	VV	6727	62432	2.62%	0.189%
12	4.429	4.419	4.444	VV	3416	34511	1.45%	0.104%
13	4.460	4.444	4.470	VV	2557	30997	1.30%	0.094%
14	4.475	4.470	4.481	VV	2007	13509	0.57%	0.041%
15	4.499	4.481	4.539	VV	48164	475722	19.94%	1.438%
16	4.568	4.539	4.592	VV	34647	483085	20.25%	1.460%
17	4.609	4.592	4.642	VV	12388	145326	6.09%	0.439%
18	4.675	4.642	4.690	VV	6201	70695	2.96%	0.214%
19	4.701	4.690	4.719	VV	2800	33492	1.40%	0.101%
20	4.727	4.719	4.739	VV	1299	11190	0.47%	0.034%
21	4.758	4.739	4.769	VV	6084	60480	2.54%	0.183%
22	4.785	4.769	4.807	VV	18850	187663	7.87%	0.567%
23	4.830	4.807	4.841	VV	33984	309482	12.97%	0.935%
24	4.856	4.841	4.877	VV	127557	1168422	48.98%	3.531%
25	4.887	4.877	4.899	VV	9418	94497	3.96%	0.286%
26	4.910	4.899	4.928	VV	8558	89996	3.77%	0.272%
27	4.941	4.928	4.957	VV	2061	29639	1.24%	0.090%
28	4.975	4.957	4.989	VV	3664	50736	2.13%	0.153%
29	4.996	4.989	5.005	VV	2167	20216	0.85%	0.061%
30	5.017	5.005	5.024	VV	2477	23926	1.00%	0.072%
31	5.045	5.024	5.055	VV	7149	94698	3.97%	0.286%
32	5.067	5.055	5.090	VV	9346	110847	4.65%	0.335%
33	5.106	5.090	5.116	VV	5042	57888	2.43%	0.175%
34	5.124	5.116	5.138	VV	4403	41628	1.74%	0.126%
35	5.146	5.138	5.152	VV	1796	13996	0.59%	0.042%
36	5.172	5.152	5.208	VV	69652	735258	30.82%	2.222%

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37	5.219	5.208	5.234	VV	3077	35783	1.50%	0.108%
38	5.248	5.234	5.278	VV	3413	62409	2.62%	0.189%
39	5.295	5.278	5.307	VV	1994	27081	1.14%	0.082%
40	5.355	5.307	5.377	VV	47067	589174	24.70%	1.781%
41	5.387	5.377	5.404	VV	12834	132939	5.57%	0.402%
42	5.421	5.404	5.429	VV	5499	66372	2.78%	0.201%
43	5.447	5.429	5.485	VV	64708	790587	33.14%	2.389%
44	5.501	5.485	5.532	VV	33465	401919	16.85%	1.215%
45	5.539	5.532	5.554	VV	5310	59582	2.50%	0.180%
46	5.561	5.554	5.572	VV	3944	39260	1.65%	0.119%
47	5.585	5.572	5.609	VV	5412	72349	3.03%	0.219%
48	5.631	5.609	5.655	VV	10311	129151	5.41%	0.390%
49	5.679	5.655	5.699	VV	13184	189760	7.95%	0.574%
50	5.747	5.699	5.761	VV	18320	348765	14.62%	1.054%
51	5.770	5.761	5.786	VV	10128	106392	4.46%	0.322%
52	5.803	5.786	5.822	VV	9338	132969	5.57%	0.402%
53	5.844	5.822	5.864	VV	22248	368645	15.45%	1.114%
54	5.874	5.864	5.896	VV	13187	211166	8.85%	0.638%
55	5.905	5.896	5.913	VV	8859	82930	3.48%	0.251%
56	5.927	5.913	5.942	VV	17829	205466	8.61%	0.621%
57	5.970	5.942	5.993	VV	17071	303965	12.74%	0.919%
58	6.007	5.993	6.019	VV	7157	93772	3.93%	0.283%
59	6.026	6.019	6.044	VV	5880	78008	3.27%	0.236%
60	6.069	6.044	6.112	VV	13633	330406	13.85%	0.999%
61	6.142	6.112	6.155	VV	7045	146384	6.14%	0.442%
62	6.169	6.155	6.197	VV	6984	124211	5.21%	0.375%
63	6.230	6.197	6.245	VV	10100	199025	8.34%	0.602%
64	6.263	6.245	6.278	VV	12954	187688	7.87%	0.567%
65	6.297	6.278	6.319	VV	21558	306443	12.85%	0.926%
66	6.342	6.319	6.357	VV	10716	179452	7.52%	0.542%
67	6.368	6.357	6.379	VV	8265	93707	3.93%	0.283%
68	6.389	6.379	6.403	VV	7563	88225	3.70%	0.267%
69	6.419	6.403	6.441	VV	21749	262215	10.99%	0.792%
70	6.459	6.441	6.475	VV	11944	161679	6.78%	0.489%
71	6.495	6.475	6.507	VV	6917	113660	4.76%	0.344%
72	6.535	6.507	6.572	VV	21347	393160	16.48%	1.188%
73	6.579	6.572	6.599	VV	6398	91908	3.85%	0.278%
74	6.618	6.599	6.630	VV	7122	108885	4.56%	0.329%
75	6.664	6.630	6.681	VV	15168	330199	13.84%	0.998%
76	6.702	6.681	6.732	VV	19613	391803	16.42%	1.184%
77	6.756	6.732	6.791	VV	12881	303180	12.71%	0.916%
78	6.806	6.791	6.824	VV	10149	137723	5.77%	0.416%
79	6.848	6.824	6.866	VV	23422	336844	14.12%	1.018%
80	6.887	6.866	6.922	VV	54978	794673	33.31%	2.402%
81	6.939	6.922	6.952	VV	7188	117878	4.94%	0.356%
82	6.962	6.952	6.978	VV	6621	89603	3.76%	0.271%
83	6.997	6.978	7.010	VV	5829	101108	4.24%	0.306%
84	7.037	7.010	7.054	VV	14182	237594	9.96%	0.718%
85	7.058	7.054	7.083	VV	9278	136932	5.74%	0.414%
86	7.114	7.083	7.124	VV	10295	194987	8.17%	0.589%
87	7.135	7.124	7.176	VV	10443	240422	10.08%	0.727%
88	7.190	7.176	7.214	VV	7079	140272	5.88%	0.424%
89	7.235	7.214	7.262	VV	16813	298878	12.53%	0.903%

90	7.281	7.262	7.310	VV	11681	209109	8.77%	0.632%
91	7.327	7.310	7.342	VV	6482	104536	4.38%	0.316%
92	7.365	7.342	7.410	VV	222472	2385688	100.00%	7.210%
93	7.423	7.410	7.448	VV	8704	158077	6.63%	0.478%
94	7.461	7.448	7.469	VV	6351	73118	3.06%	0.221%
95	7.483	7.469	7.503	VV	8239	143307	6.01%	0.433%
96	7.522	7.503	7.535	VV	11988	167947	7.04%	0.508%
97	7.546	7.535	7.569	VV	10086	164178	6.88%	0.496%
98	7.587	7.569	7.601	VV	9066	146312	6.13%	0.442%
99	7.633	7.601	7.666	VV	13756	366099	15.35%	1.106%
100	7.681	7.666	7.708	VV	9856	181168	7.59%	0.548%
101	7.728	7.708	7.736	VV	18715	209480	8.78%	0.633%
102	7.750	7.736	7.786	VV	23072	405527	17.00%	1.226%
103	7.797	7.786	7.817	VV	6216	106439	4.46%	0.322%
104	7.843	7.817	7.860	VV	28192	377222	15.81%	1.140%
105	7.872	7.860	7.891	VV	17741	246719	10.34%	0.746%
106	7.902	7.891	7.940	VV	10487	244138	10.23%	0.738%
107	7.956	7.940	7.970	VV	8659	139878	5.86%	0.423%
108	7.975	7.970	7.980	VV	8054	47975	2.01%	0.145%
109	7.993	7.980	8.000	VV	9542	102762	4.31%	0.311%
110	8.015	8.000	8.054	VV	13062	299530	12.56%	0.905%
111	8.071	8.054	8.102	VV	8857	193283	8.10%	0.584%
112	8.135	8.102	8.151	VV	8955	213643	8.96%	0.646%
113	8.162	8.151	8.187	VV	6605	126030	5.28%	0.381%
114	8.217	8.187	8.264	VV	112302	1495634	62.69%	4.520%
115	8.276	8.264	8.314	VV	9751	231046	9.68%	0.698%
116	8.344	8.314	8.366	VV	7787	218527	9.16%	0.660%
117	8.383	8.366	8.407	VV	8067	160855	6.74%	0.486%
118	8.427	8.407	8.447	VV	8392	160081	6.71%	0.484%
119	8.465	8.447	8.499	VV	12335	238542	10.00%	0.721%
120	8.515	8.499	8.543	VV	6241	138793	5.82%	0.419%
121	8.562	8.543	8.582	VV	11302	181816	7.62%	0.549%
122	8.592	8.582	8.619	VV	6505	128509	5.39%	0.388%
123	8.650	8.619	8.670	VV	19901	299228	12.54%	0.904%
124	8.686	8.670	8.710	VV	7391	154043	6.46%	0.466%
125	8.729	8.710	8.748	VV	10769	168933	7.08%	0.511%
126	8.770	8.748	8.811	VV	12497	262696	11.01%	0.794%
127	8.824	8.811	8.852	VV	4646	104651	4.39%	0.316%
128	8.883	8.852	8.904	VV	9764	180828	7.58%	0.547%
129	8.920	8.904	8.970	VV	6913	186027	7.80%	0.562%
130	8.976	8.970	8.985	VV	3476	30204	1.27%	0.091%
131	9.018	8.985	9.055	VV	7810	214710	9.00%	0.649%
132	9.071	9.055	9.090	VV	4290	76409	3.20%	0.231%
133	9.116	9.090	9.146	VV	5242	138528	5.81%	0.419%
134	9.179	9.146	9.240	VV	6321	234046	9.81%	0.707%
135	9.257	9.240	9.269	VV	3399	53776	2.25%	0.163%
136	9.288	9.269	9.299	VV	4219	67736	2.84%	0.205%
137	9.309	9.299	9.337	VV	4434	86345	3.62%	0.261%
138	9.351	9.337	9.378	VV	3398	72854	3.05%	0.220%
139	9.401	9.378	9.424	VV	5060	108219	4.54%	0.327%
140	9.437	9.424	9.459	VV	4278	80445	3.37%	0.243%
141	9.474	9.459	9.492	VV	4113	71059	2.98%	0.215%

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142	9.520	9.492	9.582	VV	3387	155332	6.51%	0.469%
143	9.604	9.582	9.622	VV	2530	56691	2.38%	0.171%
144	9.624	9.622	9.647	VV	2524	32229	1.35%	0.097%
145	9.652	9.647	9.659	VV	2009	13839	0.58%	0.042%
146	9.688	9.659	9.774	VV	2897	134566	5.64%	0.407%
147	9.803	9.774	9.817	VV	1725	39283	1.65%	0.119%
148	9.846	9.817	9.873	VV	2781	66371	2.78%	0.201%
149	9.904	9.873	9.933	VV	2838	78107	3.27%	0.236%
150	9.950	9.933	9.963	VV	2417	35655	1.49%	0.108%
151	9.981	9.963	9.999	VV	2549	48254	2.02%	0.146%
152	10.016	9.999	10.021	VV	2204	28056	1.18%	0.085%
153	10.033	10.021	10.079	VV	2367	60787	2.55%	0.184%
154	10.097	10.079	10.131	VV	2152	58863	2.47%	0.178%
155	10.150	10.131	10.164	VV	2044	35739	1.50%	0.108%
156	10.189	10.164	10.211	VV	1791	45077	1.89%	0.136%
157	10.223	10.211	10.239	VV	2070	29270	1.23%	0.088%
158	10.243	10.239	10.257	VV	1692	16739	0.70%	0.051%
159	10.270	10.257	10.299	VV	1617	32264	1.35%	0.098%
160	10.326	10.299	10.360	VV	2494	64069	2.69%	0.194%
161	10.366	10.360	10.369	VV	1526	7446	0.31%	0.023%
162	10.376	10.369	10.412	VV	1665	32297	1.35%	0.098%
163	10.431	10.412	10.440	VV	1254	17734	0.74%	0.054%
164	10.443	10.440	10.459	VV	1214	12293	0.52%	0.037%
165	10.464	10.459	10.476	VV	1083	10199	0.43%	0.031%
166	10.490	10.476	10.504	VV	1098	15487	0.65%	0.047%
167	10.526	10.504	10.554	VV	1713	41865	1.75%	0.127%
168	10.559	10.554	10.568	VV	1139	8988	0.38%	0.027%
169	10.598	10.568	10.675	VV	1853	86217	3.61%	0.261%
170	10.685	10.675	10.708	VV	1104	19851	0.83%	0.060%
171	10.723	10.708	10.731	VV	1071	14123	0.59%	0.043%
172	10.740	10.731	10.759	VV	1054	15416	0.65%	0.047%
173	10.770	10.759	10.789	VV	992	14865	0.62%	0.045%
174	10.803	10.789	10.807	VV	1018	9832	0.41%	0.030%
175	10.812	10.807	10.844	VV	1059	18895	0.79%	0.057%
176	10.855	10.844	10.864	VV	856	9596	0.40%	0.029%
177	10.896	10.864	10.920	VV	1349	32965	1.38%	0.100%
178	10.940	10.920	10.958	VV	1157	22708	0.95%	0.069%
179	10.962	10.958	10.976	VV	1130	10270	0.43%	0.031%
180	10.990	10.976	11.005	VV	978	14929	0.63%	0.045%
181	11.037	11.005	11.090	VV	1232	43085	1.81%	0.130%
182	11.109	11.090	11.115	VV	886	10239	0.43%	0.031%
183	11.122	11.115	11.129	VV	682	5105	0.21%	0.015%
184	11.135	11.129	11.137	VV	711	2952	0.12%	0.009%
185	11.152	11.137	11.169	VV	1057	13717	0.57%	0.041%
186	11.186	11.169	11.205	VV	653	11797	0.49%	0.036%
187	11.214	11.205	11.222	VV	651	5466	0.23%	0.017%
188	11.249	11.222	11.304	VV	92684	1025205	42.97%	3.098%
189	11.313	11.304	11.351	VV	1129	28090	1.18%	0.085%
190	11.369	11.351	11.399	VV	1075	26546	1.11%	0.080%
191	11.418	11.399	11.440	VV	1291	23734	0.99%	0.072%
192	11.444	11.440	11.451	VV	930	5221	0.22%	0.016%
193	11.472	11.451	11.477	VV	993	13339	0.56%	0.040%
194	11.497	11.477	11.547	VV	1100	34153	1.43%	0.103%

195	11.559	11.547	11.564	VV	599	5438	0.23%	0.016%
196	11.575	11.564	11.590	VV	702	9993	0.42%	0.030%
197	11.611	11.590	11.628	VV	1165	20970	0.88%	0.063%
198	11.644	11.628	11.661	VV	835	14326	0.60%	0.043%
199	11.678	11.661	11.703	VV	1292	21267	0.89%	0.064%
200	11.715	11.703	11.721	VV	694	6720	0.28%	0.020%
201	11.724	11.721	11.729	VV	656	2744	0.12%	0.008%
202	11.738	11.729	11.755	VV	726	9271	0.39%	0.028%
203	11.765	11.755	11.787	VV	604	9587	0.40%	0.029%
204	11.793	11.787	11.795	VV	430	1826	0.08%	0.006%
205	11.801	11.795	11.813	VV	617	5135	0.22%	0.016%
206	11.817	11.813	11.829	VV	715	5226	0.22%	0.016%
207	11.834	11.829	11.854	VV	603	7530	0.32%	0.023%
208	11.857	11.854	11.864	VV	501	2766	0.12%	0.008%
209	11.875	11.864	11.907	VV	1955	31864	1.34%	0.096%
210	11.918	11.907	11.935	VV	879	13123	0.55%	0.040%
211	11.941	11.935	11.959	VV	762	8632	0.36%	0.026%
212	11.964	11.959	11.997	VV	674	12716	0.53%	0.038%
213	12.025	11.997	12.045	VV	669	14710	0.62%	0.044%
214	12.051	12.045	12.074	VV	639	9279	0.39%	0.028%
215	12.119	12.074	12.152	VV	1357	35723	1.50%	0.108%
216	12.161	12.152	12.177	VV	682	7737	0.32%	0.023%
217	12.208	12.177	12.229	VV	1274	26352	1.10%	0.080%
218	12.254	12.229	12.301	VV	1424	37701	1.58%	0.114%
219	12.322	12.301	12.360	VV	971	26107	1.09%	0.079%
220	12.382	12.360	12.398	VV	537	10465	0.44%	0.032%
221	12.415	12.398	12.421	VV	481	5139	0.22%	0.016%
222	12.443	12.421	12.472	VV	600	10982	0.46%	0.033%
223	12.477	12.472	12.509	VV	311	4567	0.19%	0.014%
224	12.532	12.509	12.540	VV	507	7049	0.30%	0.021%
225	12.545	12.540	12.564	VV	393	4419	0.19%	0.013%
226	12.578	12.564	12.585	VV	378	3492	0.15%	0.011%
227	12.597	12.585	12.602	VV	320	2324	0.10%	0.007%
228	12.609	12.602	12.614	VV	451	2438	0.10%	0.007%
229	12.631	12.614	12.645	VV	586	9244	0.39%	0.028%
230	12.693	12.645	12.738	VV	19529	251841	10.56%	0.761%
231	12.746	12.738	12.770	VV	605	9842	0.41%	0.030%
232	12.774	12.770	12.780	VV	585	3154	0.13%	0.010%
233	12.788	12.780	12.823	VV	605	11735	0.49%	0.035%
234	12.827	12.823	12.832	VV	431	1829	0.08%	0.006%
235	12.835	12.832	12.852	VV	465	3600	0.15%	0.011%
236	12.868	12.852	12.874	VV	594	4992	0.21%	0.015%
237	12.876	12.874	12.884	VV	434	1480	0.06%	0.004%
238	12.893	12.884	12.904	VV	440	3417	0.14%	0.010%
239	12.920	12.904	12.945	VV	961	16183	0.68%	0.049%
240	12.948	12.945	12.955	VV	446	2847	0.12%	0.009%
241	12.961	12.955	12.969	VV	591	3916	0.16%	0.012%
242	12.980	12.969	12.992	VV	610	6564	0.28%	0.020%
243	13.006	12.992	13.012	VV	546	5372	0.23%	0.016%
244	13.039	13.012	13.074	VV	6119	84067	3.52%	0.254%
245	13.077	13.074	13.082	VV	623	2876	0.12%	0.009%
246	13.086	13.082	13.089	VV	717	2405	0.10%	0.007%

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247	13.102	13.089	13.130	VV	1068	21842	0.92%	0.066%
248	13.140	13.130	13.175	VV	830	15510	0.65%	0.047%
249	13.181	13.175	13.188	VV	575	3605	0.15%	0.011%
250	13.190	13.188	13.207	VV	471	3914	0.16%	0.012%
251	13.219	13.207	13.224	VV	354	3061	0.13%	0.009%
252	13.229	13.224	13.237	VV	439	3056	0.13%	0.009%
253	13.267	13.237	13.315	VV	13146	173757	7.28%	0.525%
254	13.321	13.315	13.332	VV	657	5249	0.22%	0.016%
255	13.337	13.332	13.344	VV	523	3227	0.14%	0.010%
256	13.349	13.344	13.365	VV	571	5900	0.25%	0.018%
257	13.370	13.365	13.374	VV	550	2426	0.10%	0.007%
258	13.401	13.374	13.428	VV	2285	37143	1.56%	0.112%
259	13.444	13.428	13.483	VV	1582	19818	0.83%	0.060%
260	13.495	13.483	13.525	VV	571	7302	0.31%	0.022%
261	13.537	13.525	13.544	PV	342	2371	0.10%	0.007%
262	13.562	13.544	13.599	VV	460	11429	0.48%	0.035%
263	13.617	13.599	13.623	VV	415	4689	0.20%	0.014%
264	13.632	13.623	13.645	VV	403	4841	0.20%	0.015%
265	13.662	13.645	13.667	VV	515	5112	0.21%	0.015%
266	13.670	13.667	13.674	VV	437	1644	0.07%	0.005%
267	13.679	13.674	13.691	VV	476	3962	0.17%	0.012%
268	13.713	13.691	13.734	VV	516	11009	0.46%	0.033%
269	13.740	13.734	13.772	VV	631	6692	0.28%	0.020%
270	13.794	13.772	13.799	VV	364	3455	0.14%	0.010%
271	13.815	13.799	13.828	VV	357	5680	0.24%	0.017%
272	13.832	13.828	13.844	VV	362	3172	0.13%	0.010%
273	13.866	13.844	13.870	VV	565	7020	0.29%	0.021%
274	13.877	13.870	13.885	VV	593	4744	0.20%	0.014%
275	13.892	13.885	13.900	VV	673	4819	0.20%	0.015%
276	13.934	13.900	13.958	VV	760	15789	0.66%	0.048%
277	13.976	13.958	13.984	VV	568	7235	0.30%	0.022%
278	14.006	13.984	14.024	VV	1322	20904	0.88%	0.063%
279	14.028	14.024	14.052	VV	586	7526	0.32%	0.023%
280	14.075	14.052	14.080	VV	562	7666	0.32%	0.023%
281	14.087	14.080	14.119	VV	560	11090	0.46%	0.034%
282	14.127	14.119	14.134	VV	584	4580	0.19%	0.014%
283	14.138	14.134	14.144	VV	773	3277	0.14%	0.010%
284	14.171	14.144	14.192	VV	3830	53722	2.25%	0.162%
285	14.197	14.192	14.204	VV	685	4481	0.19%	0.014%
286	14.214	14.204	14.232	VV	909	12846	0.54%	0.039%
287	14.236	14.232	14.245	VV	816	5098	0.21%	0.015%
288	14.247	14.245	14.272	VV	629	8383	0.35%	0.025%
289	14.277	14.272	14.281	VV	492	2303	0.10%	0.007%
290	14.304	14.281	14.339	VV	777	19624	0.82%	0.059%
291	14.382	14.339	14.420	VV	9688	134003	5.62%	0.405%
292	14.423	14.420	14.430	VV	457	2377	0.10%	0.007%
293	14.449	14.430	14.455	VV	595	6689	0.28%	0.020%
294	14.467	14.455	14.487	VV	595	8813	0.37%	0.027%
295	14.505	14.487	14.523	VV	1563	22267	0.93%	0.067%
296	14.542	14.523	14.574	VV	2727	42721	1.79%	0.129%
297	14.580	14.574	14.585	VV	476	3115	0.13%	0.009%
298	14.590	14.585	14.640	VV	567	13735	0.58%	0.042%
299	14.666	14.640	14.677	VV	575	9006	0.38%	0.027%

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300	14.689	14.677	14.719	VV	453	9389	0.39%	0.028%
301	14.727	14.719	14.747	VV	336	3580	0.15%	0.011%

Sum of corrected areas: 33087549

Aromatic EPH 111424.M Tue Nov 19 06:46:02 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-18			SDG No.:	P4839
Lab Sample ID:	P4839-10			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	79
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 17:40	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.48	U	1	0.48	1.26	mg/kg	FC067780.D
Aliphatic C12-C16	Aliphatic C12-C16	1.47		1	0.30	0.84	mg/kg	FC067780.D
Aliphatic C16-C21	Aliphatic C16-C21	1.07	J	1	0.38	1.26	mg/kg	FC067780.D
Aliphatic C21-C28	Aliphatic C21-C28	1.01	U	1	1.01	1.69	mg/kg	FC067780.D
Aliphatic C28-C40	Aliphatic C28-C40	4.27		1	2.28	2.53	mg/kg	FC067780.D
Aromatic C10-C12	Aromatic C10-C12	0.38	U	1	0.38	0.84	mg/kg	FD048749.D
Aromatic C12-C16	Aromatic C12-C16	0.48	J	1	0.43	1.26	mg/kg	FD048749.D
Aromatic C16-C21	Aromatic C16-C21	1.22	J	1	1.21	2.11	mg/kg	FD048749.D
Aromatic C21-C36	Aromatic C21-C36	2.53	U	1	2.53	3.37	mg/kg	FD048749.D
Total AliphaticEPH	Total AliphaticEPH	6.81	J		4.45	7.58	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.55	U		4.55	7.58	mg/kg	
Total EPH	Total EPH	9.00	U		9.00	15.2	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-18			SDG No.:	P4839
Lab Sample ID:	P4839-10			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	79
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 17:40	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.48	U	1	0.48	1.26	mg/kg	FC067780.D
Aliphatic C12-C16	Aliphatic C12-C16	1.47		1	0.30	0.84	mg/kg	FC067780.D
Aliphatic C16-C21	Aliphatic C16-C21	1.07	J	1	0.38	1.26	mg/kg	FC067780.D
Aliphatic C21-C28	Aliphatic C21-C28	1.01	U	1	1.01	1.69	mg/kg	FC067780.D
Aliphatic C28-C40	Aliphatic C28-C40	4.27		1	2.28	2.53	mg/kg	FC067780.D
Aromatic C10-C12	Aromatic C10-C12	0.38	U	1	0.38	0.84	mg/kg	FD048749.D
Aromatic C12-C16	Aromatic C12-C16	0.48	J	1	0.43	1.26	mg/kg	FD048749.D
Aromatic C16-C21	Aromatic C16-C21	1.22	J	1	1.21	2.11	mg/kg	FD048749.D
Aromatic C21-C36	Aromatic C21-C36	2.53	U	1	2.53	3.37	mg/kg	FD048749.D
Total AliphaticEPH	Total AliphaticEPH	6.81	J		4.45	7.58	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.55	U		4.55	7.58	mg/kg	
Total EPH	Total EPH	9.00	U		9.00	15.2	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-18		SDG No.:	P4839	
Lab Sample ID:	P4839-10		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	79	
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
FC067780.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.48	U	0.48	1.26	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.47		0.30	0.84	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		1.07	J	0.38	1.26	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.01	U	1.01	1.69	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		4.27		2.28	2.53	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		37.7		40 - 140	75%	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:	P4839-10	Acq On:	15 Nov 2024 17:40
Client Sample ID:	EX-9-TPH-18	Operator:	YP/AJ
Data file:	FC067780.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	13724284	96.172		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	5468187	37.67		ug/ml
Aliphatic C9-C12	3.172	6.448	884386	5.334	300	ug/ml
Aliphatic C12-C16	6.449	9.838	2979478	17.487	200	ug/ml
Aliphatic C16-C21	9.839	13.196	2145188	12.647	300	ug/ml
Aliphatic C21-C28	13.197	16.850	1579922	10.045	400	ug/ml
Aliphatic C28-C40	16.851	21.693	6135310	50.658	600	ug/ml
Aliphatic C9-C28	3.172	16.850	7588974	45.513	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067780.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:40
Operator : YP/AJ
Sample : P4839-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-18

Integration File: autoint1.e
Quant Time: Nov 16 08:23:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.930	5468187	37.670 ug/ml
Spiked Amount 50.000		Recovery = 75.34%	
Target Compounds			

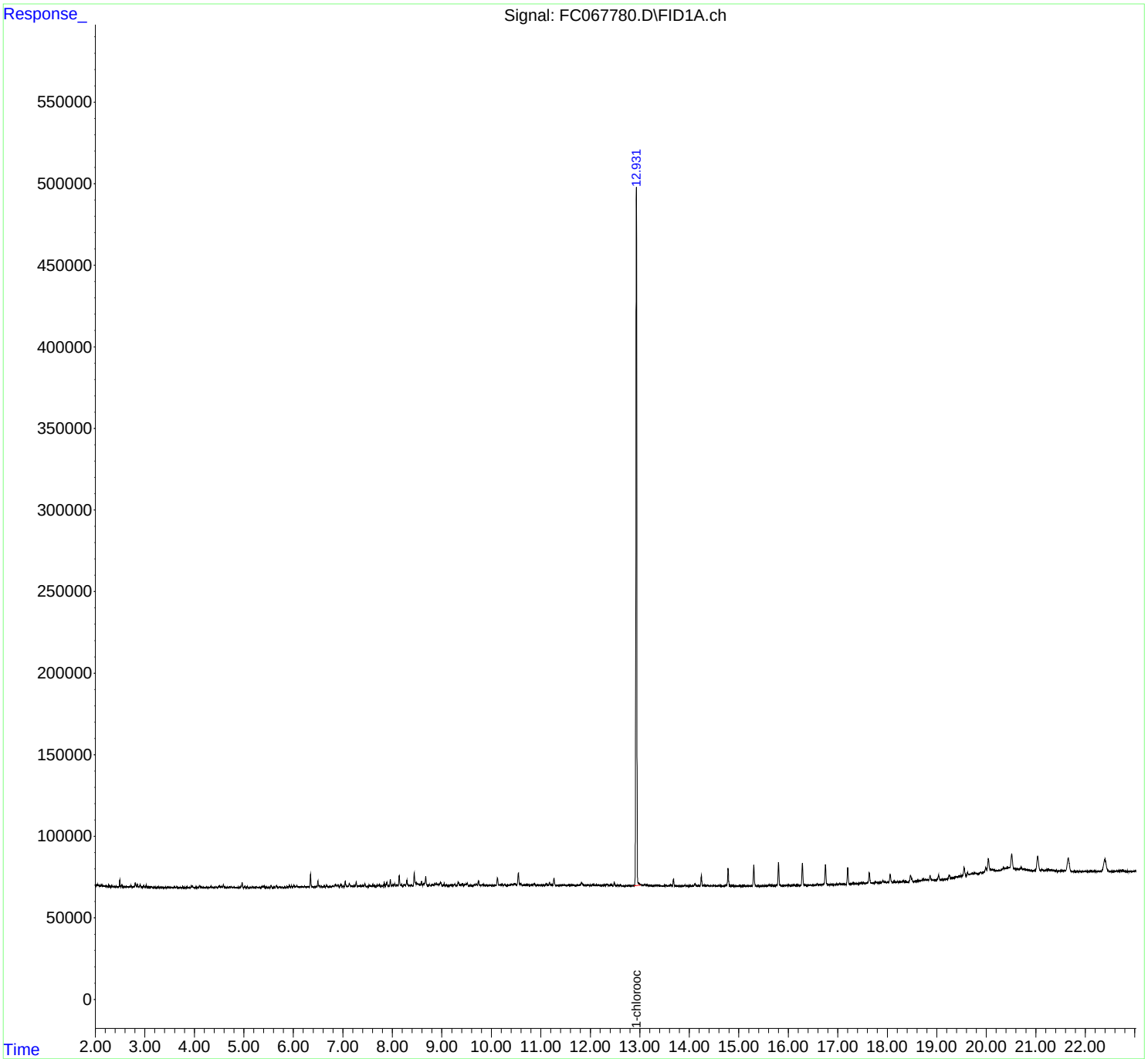
(f)=RT Delta > 1/2 Window (m)=manual int.

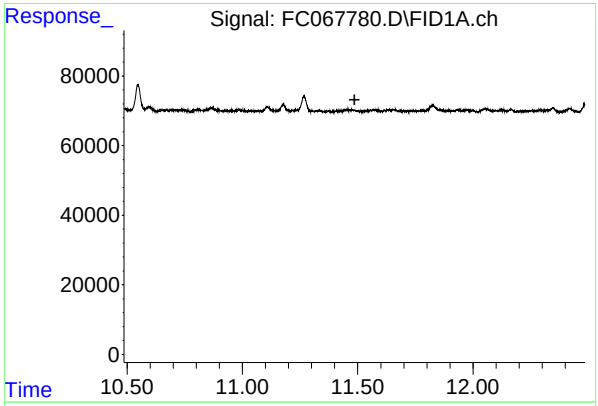
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067780.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:40
Operator : YP/AJ
Sample : P4839-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-18

Integration File: autoint1.e
Quant Time: Nov 16 08:23:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

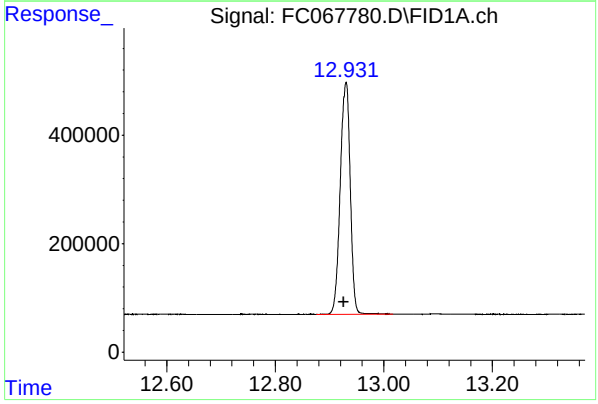




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-18



#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 5468187
Conc: 37.67 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067780.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 17:40
Sample : P4839-10
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.273	3.221	3.308	BV	415	7278	0.13%	0.038%
2	3.324	3.308	3.347	VV	155	2071	0.04%	0.011%
3	3.368	3.347	3.383	PV	138	1916	0.03%	0.010%
4	3.397	3.383	3.434	VV	234	4001	0.07%	0.021%
5	3.450	3.434	3.460	VV	237	2460	0.04%	0.013%
6	3.472	3.460	3.520	VV	250	3973	0.07%	0.021%
7	3.546	3.520	3.568	VV	387	6593	0.12%	0.034%
8	3.595	3.568	3.627	VV	395	6405	0.12%	0.033%
9	3.644	3.627	3.668	VV	640	6567	0.12%	0.034%
10	3.676	3.668	3.690	VV	171	2015	0.04%	0.010%
11	3.712	3.690	3.729	VV	258	3656	0.07%	0.019%
12	3.737	3.729	3.751	VV	125	925	0.02%	0.005%
13	3.763	3.751	3.794	VV	448	5873	0.11%	0.030%
14	3.811	3.794	3.830	VV	254	2793	0.05%	0.014%
15	3.852	3.830	3.898	PV	484	8753	0.16%	0.045%
16	3.938	3.898	3.952	VV	1451	16253	0.29%	0.084%
17	3.965	3.952	3.985	VV	1192	11465	0.21%	0.059%
18	3.997	3.985	4.014	VV	251	3218	0.06%	0.017%
19	4.031	4.014	4.052	VV	709	8091	0.15%	0.042%
20	4.076	4.052	4.084	VV	272	4215	0.08%	0.022%
21	4.110	4.084	4.130	VV	932	16543	0.30%	0.085%
22	4.141	4.130	4.191	VV	406	10364	0.19%	0.054%
23	4.198	4.191	4.221	VV	204	2804	0.05%	0.014%
24	4.250	4.221	4.272	VV	407	7661	0.14%	0.040%
25	4.287	4.272	4.308	VV	369	6094	0.11%	0.031%
26	4.336	4.308	4.364	VV	954	15780	0.28%	0.082%
27	4.377	4.364	4.390	VV	463	5071	0.09%	0.026%
28	4.403	4.390	4.416	VV	412	4611	0.08%	0.024%
29	4.437	4.416	4.468	VV	579	11398	0.20%	0.059%
30	4.502	4.468	4.520	VV	1146	20116	0.36%	0.104%
31	4.533	4.520	4.544	VV	662	8093	0.15%	0.042%
32	4.557	4.544	4.571	VV	1027	10865	0.20%	0.056%
33	4.587	4.571	4.605	VV	2077	21684	0.39%	0.112%
34	4.617	4.605	4.632	VV	677	8040	0.14%	0.042%
35	4.640	4.632	4.654	VV	414	4772	0.09%	0.025%
36	4.663	4.654	4.678	VV	438	4446	0.08%	0.023%

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37	4.710	4.678	4.728	VV	581	11836	0.21%	0.061%
38	4.744	4.728	4.769	VV	639	10489	0.19%	0.054%
39	4.779	4.769	4.787	VV	317	2695	0.05%	0.014%
40	4.803	4.787	4.837	VV	616	8397	0.15%	0.043%
41	4.885	4.837	4.906	VV	536	10242	0.18%	0.053%
42	4.966	4.906	4.993	VV	3484	53746	0.97%	0.278%
43	5.021	4.993	5.038	VV	1097	16523	0.30%	0.085%
44	5.071	5.038	5.113	VV	858	18193	0.33%	0.094%
45	5.168	5.113	5.181	PV	584	13689	0.25%	0.071%
46	5.190	5.181	5.208	VV	475	6244	0.11%	0.032%
47	5.224	5.208	5.239	VV	475	6498	0.12%	0.034%
48	5.257	5.239	5.273	VV	703	8949	0.16%	0.046%
49	5.283	5.273	5.302	VV	472	5790	0.10%	0.030%
50	5.316	5.302	5.350	VV	293	7512	0.14%	0.039%
51	5.408	5.350	5.451	VV	1199	36706	0.66%	0.190%
52	5.464	5.451	5.476	VV	381	3895	0.07%	0.020%
53	5.490	5.476	5.521	VV	339	7014	0.13%	0.036%
54	5.549	5.521	5.575	VV	1717	25690	0.46%	0.133%
55	5.618	5.575	5.633	VV	435	10452	0.19%	0.054%
56	5.660	5.633	5.691	VV	1195	24719	0.44%	0.128%
57	5.715	5.691	5.747	VV	710	11648	0.21%	0.060%
58	5.774	5.747	5.801	VV	500	9104	0.16%	0.047%
59	5.820	5.801	5.841	PV	625	7627	0.14%	0.039%
60	5.872	5.841	5.891	VV	758	12997	0.23%	0.067%
61	5.919	5.891	5.944	VV	1316	24255	0.44%	0.125%
62	5.964	5.944	5.986	VV	1330	17297	0.31%	0.089%
63	6.009	5.986	6.034	VV	1558	23937	0.43%	0.124%
64	6.067	6.034	6.084	VV	1352	22675	0.41%	0.117%
65	6.094	6.084	6.116	VV	641	9470	0.17%	0.049%
66	6.149	6.116	6.168	VV	657	15848	0.28%	0.082%
67	6.184	6.168	6.207	VV	618	11222	0.20%	0.058%
68	6.226	6.207	6.253	VV	918	16705	0.30%	0.086%
69	6.272	6.253	6.323	VV	639	22709	0.41%	0.117%
70	6.348	6.323	6.418	VV	8474	108986	1.96%	0.563%
71	6.433	6.418	6.454	VV	909	13764	0.25%	0.071%
72	6.497	6.454	6.518	VV	4193	60682	1.09%	0.314%
73	6.533	6.518	6.553	VV	1523	21872	0.39%	0.113%
74	6.568	6.553	6.591	VV	1232	16254	0.29%	0.084%
75	6.621	6.591	6.645	VV	1116	20413	0.37%	0.105%
76	6.670	6.645	6.692	VV	1446	25058	0.45%	0.129%
77	6.705	6.692	6.717	VV	741	9149	0.16%	0.047%
78	6.733	6.717	6.761	VV	832	17309	0.31%	0.089%
79	6.804	6.761	6.822	VV	1092	26809	0.48%	0.138%
80	6.844	6.822	6.881	VV	1805	45573	0.82%	0.235%
81	6.905	6.881	6.930	VV	1798	34914	0.63%	0.180%
82	6.966	6.930	6.989	VV	1693	40614	0.73%	0.210%
83	7.005	6.989	7.024	VV	1070	17034	0.31%	0.088%
84	7.049	7.024	7.087	VV	3968	62946	1.13%	0.325%
85	7.102	7.087	7.114	VV	968	13072	0.23%	0.068%
86	7.131	7.114	7.164	VV	2619	46964	0.84%	0.243%
87	7.190	7.164	7.204	VV	1062	21188	0.38%	0.109%
88	7.234	7.204	7.248	VV	1389	26916	0.48%	0.139%
89	7.270	7.248	7.297	VV	3533	51200	0.92%	0.265%

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90	7.319	7.297	7.346	VV	987	26048	0.47%	0.135%
91	7.361	7.346	7.375	VV	1250	17871	0.32%	0.092%
92	7.395	7.375	7.413	VV	1089	23125	0.42%	0.119%
93	7.442	7.413	7.469	VV	2062	42467	0.76%	0.219%
94	7.484	7.469	7.511	VV	827	15338	0.28%	0.079%
95	7.530	7.511	7.545	VV	1538	21880	0.39%	0.113%
96	7.557	7.545	7.571	VV	1127	15881	0.29%	0.082%
97	7.605	7.571	7.623	VV	1612	37206	0.67%	0.192%
98	7.635	7.623	7.673	VV	1206	25938	0.47%	0.134%
99	7.696	7.673	7.711	VV	1602	26151	0.47%	0.135%
100	7.725	7.711	7.735	VV	1271	16778	0.30%	0.087%
101	7.746	7.735	7.766	VV	1451	19277	0.35%	0.100%
102	7.791	7.766	7.811	VV	1439	26568	0.48%	0.137%
103	7.836	7.811	7.857	VV	2366	40756	0.73%	0.211%
104	7.890	7.857	7.915	VV	3074	60375	1.09%	0.312%
105	7.961	7.915	7.990	VV	4879	84015	1.51%	0.434%
106	8.013	7.990	8.030	VV	1631	31918	0.57%	0.165%
107	8.048	8.030	8.071	VV	2203	37347	0.67%	0.193%
108	8.082	8.071	8.114	VV	1360	31542	0.57%	0.163%
109	8.140	8.114	8.174	VV	7350	114106	2.05%	0.590%
110	8.186	8.174	8.208	VV	1789	27043	0.49%	0.140%
111	8.236	8.208	8.268	VV	1855	49207	0.88%	0.254%
112	8.295	8.268	8.324	VV	4456	79298	1.43%	0.410%
113	8.331	8.324	8.360	VV	1413	25249	0.45%	0.130%
114	8.383	8.360	8.414	VV	1448	39097	0.70%	0.202%
115	8.444	8.414	8.480	VV	8832	151828	2.73%	0.784%
116	8.493	8.480	8.509	VV	2751	39952	0.72%	0.206%
117	8.522	8.509	8.548	VV	2129	44178	0.79%	0.228%
118	8.559	8.548	8.570	VV	1633	20987	0.38%	0.108%
119	8.591	8.570	8.614	VV	3739	61404	1.10%	0.317%
120	8.676	8.614	8.734	VV	6688	171320	3.08%	0.885%
121	8.752	8.734	8.774	VV	1633	31529	0.57%	0.163%
122	8.796	8.774	8.805	VV	1365	21694	0.39%	0.112%
123	8.822	8.805	8.837	VV	1613	26517	0.48%	0.137%
124	8.860	8.837	8.877	VV	2664	45949	0.83%	0.237%
125	8.897	8.877	8.944	VV	2100	72358	1.30%	0.374%
126	8.975	8.944	9.020	VV	3001	87752	1.58%	0.453%
127	9.045	9.020	9.068	VV	1978	41993	0.75%	0.217%
128	9.094	9.068	9.127	VV	1391	38490	0.69%	0.199%
129	9.197	9.127	9.231	VV	1377	70092	1.26%	0.362%
130	9.260	9.231	9.301	VV	1924	56583	1.02%	0.292%
131	9.331	9.301	9.367	VV	2968	76481	1.37%	0.395%
132	9.414	9.367	9.441	VV	2133	66633	1.20%	0.344%
133	9.470	9.441	9.481	VV	1600	32259	0.58%	0.167%
134	9.517	9.481	9.546	VV	2448	63812	1.15%	0.330%
135	9.572	9.546	9.594	VV	1163	28652	0.51%	0.148%
136	9.609	9.594	9.631	VV	977	19592	0.35%	0.101%
137	9.657	9.631	9.672	VV	1584	30185	0.54%	0.156%
138	9.693	9.672	9.717	VV	1873	41547	0.75%	0.215%
139	9.739	9.717	9.782	VV	3747	74886	1.35%	0.387%
140	9.812	9.782	9.825	VV	1488	34489	0.62%	0.178%
141	9.836	9.825	9.874	VV	1421	35868	0.64%	0.185%

142	9.908	9.874	9.928	VV	1049	29290	0.53%	0.151%
143	9.965	9.928	9.994	VV	1225	40888	0.73%	0.211%
144	10.016	9.994	10.036	VV	1210	26431	0.48%	0.137%
145	10.061	10.036	10.072	VV	1156	22022	0.40%	0.114%
146	10.125	10.072	10.154	VV	5652	118836	2.14%	0.614%
147	10.170	10.154	10.191	VV	1404	27956	0.50%	0.144%
148	10.208	10.191	10.238	VV	1528	36224	0.65%	0.187%
149	10.271	10.238	10.300	VV	1574	44326	0.80%	0.229%
150	10.322	10.300	10.332	VV	1078	18340	0.33%	0.095%
151	10.339	10.332	10.347	VV	1037	9166	0.16%	0.047%
152	10.366	10.347	10.383	VV	1294	25080	0.45%	0.130%
153	10.406	10.383	10.438	VV	1696	46549	0.84%	0.240%
154	10.474	10.438	10.514	VV	2055	73022	1.31%	0.377%
155	10.547	10.514	10.578	VV	8575	154027	2.77%	0.796%
156	10.597	10.578	10.630	VV	2088	49257	0.89%	0.254%
157	10.663	10.630	10.682	VV	1304	36222	0.65%	0.187%
158	10.708	10.682	10.719	VV	1284	26840	0.48%	0.139%
159	10.735	10.719	10.774	VV	1288	37003	0.66%	0.191%
160	10.811	10.774	10.830	VV	1364	38813	0.70%	0.201%
161	10.867	10.830	10.918	VV	1854	70220	1.26%	0.363%
162	10.933	10.918	10.968	VV	1070	29999	0.54%	0.155%
163	10.983	10.968	11.024	VV	1283	35864	0.64%	0.185%
164	11.032	11.024	11.065	VV	1020	22567	0.41%	0.117%
165	11.108	11.065	11.151	VV	2182	65708	1.18%	0.339%
166	11.176	11.151	11.211	VV	2812	57953	1.04%	0.299%
167	11.267	11.211	11.311	VV	5177	118417	2.13%	0.612%
168	11.330	11.311	11.357	VV	1032	24235	0.44%	0.125%
169	11.372	11.357	11.395	VV	863	17528	0.32%	0.091%
170	11.456	11.395	11.511	VV	1206	68348	1.23%	0.353%
171	11.565	11.511	11.606	VV	1262	55588	1.00%	0.287%
172	11.634	11.606	11.644	VV	1232	24462	0.44%	0.126%
173	11.655	11.644	11.711	VV	1269	39172	0.70%	0.202%
174	11.733	11.711	11.754	VV	1044	23329	0.42%	0.121%
175	11.826	11.754	11.881	VV	2483	99430	1.79%	0.514%
176	11.891	11.881	11.917	VV	967	19849	0.36%	0.103%
177	11.936	11.917	11.957	VV	1173	24506	0.44%	0.127%
178	11.974	11.957	12.021	VV	1151	35278	0.63%	0.182%
179	12.052	12.021	12.091	VV	1413	44122	0.79%	0.228%
180	12.099	12.091	12.104	VV	911	6845	0.12%	0.035%
181	12.122	12.104	12.146	VV	1129	24844	0.45%	0.128%
182	12.164	12.146	12.218	VV	1191	35970	0.65%	0.186%
183	12.255	12.218	12.274	VV	944	27851	0.50%	0.144%
184	12.292	12.274	12.309	VV	1051	18742	0.34%	0.097%
185	12.346	12.309	12.384	VV	1718	45668	0.82%	0.236%
186	12.420	12.384	12.461	VV	1499	41519	0.75%	0.214%
187	12.484	12.461	12.509	VV	2668	40906	0.74%	0.211%
188	12.517	12.509	12.534	VV	737	10385	0.19%	0.054%
189	12.548	12.534	12.580	VV	751	18355	0.33%	0.095%
190	12.596	12.580	12.679	VV	757	32991	0.59%	0.170%
191	12.758	12.679	12.792	VV	693	32473	0.58%	0.168%
192	12.808	12.792	12.824	VV	522	8398	0.15%	0.043%
193	12.930	12.824	13.054	VV	432373	5564388	100.00%	28.747%
194	13.060	13.054	13.072	VV	797	8017	0.14%	0.041%

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195	13.096	13.072	13.185	VV	1364	55357	0.99%	0.286%
196	13.211	13.185	13.271	VV	598	24492	0.44%	0.127%
197	13.319	13.271	13.341	VV	685	22684	0.41%	0.117%
198	13.370	13.341	13.415	VV	672	22338	0.40%	0.115%
199	13.430	13.415	13.468	VV	414	10663	0.19%	0.055%
200	13.534	13.468	13.571	VV	649	27543	0.49%	0.142%
201	13.590	13.571	13.608	VV	591	10133	0.18%	0.052%
202	13.628	13.608	13.651	VV	949	15593	0.28%	0.081%
203	13.680	13.651	13.754	VV	4306	72241	1.30%	0.373%
204	13.768	13.754	13.795	VV	367	6635	0.12%	0.034%
205	13.808	13.795	13.821	VV	249	3353	0.06%	0.017%
206	13.829	13.821	13.869	VV	245	5948	0.11%	0.031%
207	13.917	13.869	13.964	VV	536	20326	0.37%	0.105%
208	13.982	13.964	14.026	VV	275	9055	0.16%	0.047%
209	14.115	14.026	14.163	VV	1634	43173	0.78%	0.223%
210	14.180	14.163	14.204	VV	352	7585	0.14%	0.039%
211	14.242	14.204	14.287	VV	6851	95568	1.72%	0.494%
212	14.311	14.287	14.338	VV	521	12999	0.23%	0.067%
213	14.352	14.338	14.360	VV	403	4930	0.09%	0.025%
214	14.377	14.360	14.468	VV	550	20239	0.36%	0.105%
215	14.490	14.468	14.514	VV	456	9278	0.17%	0.048%
216	14.532	14.514	14.546	VV	360	5339	0.10%	0.028%
217	14.560	14.546	14.574	VV	322	4452	0.08%	0.023%
218	14.588	14.574	14.611	VV	362	6401	0.12%	0.033%
219	14.628	14.611	14.641	VV	281	4451	0.08%	0.023%
220	14.644	14.641	14.678	VV	263	3936	0.07%	0.020%
221	14.686	14.678	14.696	VV	203	2000	0.04%	0.010%
222	14.704	14.696	14.712	VV	207	1741	0.03%	0.009%
223	14.739	14.712	14.752	VV	701	10001	0.18%	0.052%
224	14.782	14.752	14.868	VV	10970	158500	2.85%	0.819%
225	14.884	14.868	14.901	VV	189	2707	0.05%	0.014%
226	14.913	14.901	14.971	VV	229	6727	0.12%	0.035%
227	15.025	14.971	15.068	VV	168	6934	0.12%	0.036%
228	15.086	15.068	15.098	VV	226	3206	0.06%	0.017%
229	15.112	15.098	15.167	VV	334	6535	0.12%	0.034%
230	15.205	15.167	15.261	VV	295	10125	0.18%	0.052%
231	15.301	15.261	15.391	VV	12718	180270	3.24%	0.931%
232	15.432	15.391	15.454	VV	124	3068	0.06%	0.016%
233	15.484	15.454	15.494	PV	209	2825	0.05%	0.015%
234	15.514	15.494	15.571	VV	246	7264	0.13%	0.038%
235	15.619	15.571	15.650	VV	653	15023	0.27%	0.078%
236	15.664	15.650	15.706	VV	340	5889	0.11%	0.030%
237	15.713	15.706	15.731	VV	128	1057	0.02%	0.005%
238	15.760	15.731	15.770	VV	491	6201	0.11%	0.032%
239	15.800	15.770	15.868	VV	14366	203976	3.67%	1.054%
240	15.886	15.868	15.901	VV	156	1731	0.03%	0.009%
241	15.947	15.901	15.964	PV	284	4914	0.09%	0.025%
242	15.988	15.964	16.031	VV	433	7873	0.14%	0.041%
243	16.112	16.031	16.144	VV	584	14051	0.25%	0.073%
244	16.161	16.144	16.207	VV	308	6138	0.11%	0.032%
245	16.283	16.207	16.378	PV	13850	203385	3.66%	1.051%
246	16.444	16.378	16.456	VV	223	5979	0.11%	0.031%

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247	16.462	16.456	16.498	VV	151	3705	0.07%	0.019%
248	16.508	16.498	16.538	VV	175	2472	0.04%	0.013%
249	16.584	16.538	16.606	VV	729	13272	0.24%	0.069%
250	16.633	16.606	16.687	VV	483	13249	0.24%	0.068%
251	16.749	16.687	16.818	VV	12446	197564	3.55%	1.021%
252	16.830	16.818	16.854	VV	142	2185	0.04%	0.011%
253	16.861	16.854	16.886	VV	114	1806	0.03%	0.009%
254	16.897	16.886	16.941	VV	142	2376	0.04%	0.012%
255	16.975	16.941	17.004	PV	302	6558	0.12%	0.034%
256	17.039	17.004	17.063	VV	709	11462	0.21%	0.059%
257	17.086	17.063	17.111	VV	362	5947	0.11%	0.031%
258	17.147	17.111	17.168	VV	226	4589	0.08%	0.024%
259	17.198	17.168	17.268	VV	10269	140756	2.53%	0.727%
260	17.306	17.268	17.341	VV	643	14118	0.25%	0.073%
261	17.354	17.341	17.367	VV	235	3172	0.06%	0.016%
262	17.392	17.367	17.430	VV	285	8958	0.16%	0.046%
263	17.477	17.430	17.504	VV	790	19874	0.36%	0.103%
264	17.526	17.504	17.550	VV	518	9683	0.17%	0.050%
265	17.562	17.550	17.570	VV	240	2568	0.05%	0.013%
266	17.635	17.570	17.716	VV	6604	118823	2.14%	0.614%
267	17.768	17.716	17.839	VV	678	26368	0.47%	0.136%
268	17.913	17.839	17.988	VV	1450	47541	0.85%	0.246%
269	18.015	17.988	18.031	VV	463	8607	0.15%	0.044%
270	18.057	18.031	18.107	VV	5157	87013	1.56%	0.450%
271	18.132	18.107	18.174	VV	649	15910	0.29%	0.082%
272	18.202	18.174	18.228	VV	414	10450	0.19%	0.054%
273	18.316	18.228	18.411	VV	700	40402	0.73%	0.209%
274	18.467	18.411	18.527	PV	4054	94640	1.70%	0.489%
275	18.560	18.527	18.571	PV	307	3535	0.06%	0.018%
276	18.631	18.571	18.641	VV	547	16173	0.29%	0.084%
277	18.727	18.641	18.751	VV	1072	46792	0.84%	0.242%
278	18.769	18.751	18.827	VV	954	38044	0.68%	0.197%
279	18.864	18.827	18.933	VV	3232	74688	1.34%	0.386%
280	18.955	18.933	18.976	VV	353	6640	0.12%	0.034%
281	19.036	18.976	19.082	VV	3282	65796	1.18%	0.340%
282	19.111	19.082	19.134	VV	470	9042	0.16%	0.047%
283	19.192	19.134	19.204	VV	500	15827	0.28%	0.082%
284	19.249	19.204	19.289	VV	3023	73125	1.31%	0.378%
285	19.297	19.289	19.321	VV	952	16532	0.30%	0.085%
286	19.552	19.321	19.591	VV	6510	341211	6.13%	1.763%
287	19.624	19.591	19.649	VV	3703	95110	1.71%	0.491%
288	19.747	19.649	19.786	VV	3215	238218	4.28%	1.231%
289	19.802	19.786	19.838	VV	3055	87546	1.57%	0.452%
290	19.890	19.838	19.917	VV	3380	140483	2.52%	0.726%
291	19.989	19.917	20.007	VV	5673	221308	3.98%	1.143%
292	20.042	20.007	20.230	VV	11479	711623	12.79%	3.676%
293	20.343	20.230	20.383	VV	5313	399246	7.18%	2.063%
294	20.427	20.383	20.466	VV	5305	257887	4.63%	1.332%
295	20.513	20.466	20.612	VV	13713	583881	10.49%	3.016%
296	20.621	20.612	20.628	VV	4142	38956	0.70%	0.201%
297	20.705	20.628	20.944	VV	4749	662974	11.91%	3.425%
298	21.037	20.944	21.096	VV	11133	433129	7.78%	2.238%
299	21.121	21.096	21.174	VV	2620	112667	2.02%	0.582%

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300	21.182	21.174	21.193	VV	2217	24424	0.44%	0.126%
301	21.264	21.193	21.296	VV	2499	145186	2.61%	0.750%
302	21.307	21.296	21.389	VV	2306	112206	2.02%	0.580%
303	21.401	21.389	21.456	VV	1659	58232	1.05%	0.301%
304	21.518	21.456	21.551	VV	1352	73416	1.32%	0.379%
305	21.656	21.551	21.761	VV	9152	349792	6.29%	1.807%
306	21.771	21.761	21.808	VV	670	15091	0.27%	0.078%
307	21.815	21.808	21.831	VV	511	6201	0.11%	0.032%
308	21.838	21.831	21.868	VV	440	8917	0.16%	0.046%
309	21.888	21.868	21.934	VV	370	12624	0.23%	0.065%
310	21.944	21.934	21.971	VV	371	4918	0.09%	0.025%
311	22.019	21.971	22.101	VBA	213	19947	0.36%	0.103%

Sum of corrected areas: 19356364

Aliphatic EPH 111424.M Sat Nov 16 10:01:45 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-18		SDG No.:	P4839	
Lab Sample ID:	P4839-10		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	79	
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
FD048749.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.38	U	0.38	0.84	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.48	J	0.43	1.26	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.22	J	1.21	2.11	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.53	U	2.53	3.37	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.6		40 - 140	93%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	47.3		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.8		40 - 140	48%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-10	Acq On:	15 Nov 2024 17:40
Client Sample ID:	EX-9-TPH-18	Operator:	YP/AJ
Data file:	FD048749.D	Misc:	
Instrument:	FID_D	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	530477	2.763	200	ug/ml
Aromatic C12-C16	5.806	8.411	1099773	5.714	300	ug/ml
Aromatic C16-C21	8.412	12.674	2698985	14.526	500	ug/ml
Aromatic C21-C36	12.675	18.081	2768105	17.605	800	ug/ml
Aromatic EPH	4.088	18.081	7097340	40.608		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	8197383	46.56		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	5442271	47.25		ug/ml
ortho-Terphenyl (SURR)	11.251	11.251	4583202	23.83		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048749.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:40
Operator : YP/AJ
Sample : P4839-10
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-18

Integration File: sample.E
Quant Time: Nov 16 09:52:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.367	8197383	46.561 ug/ml
Spiked Amount 50.000		Recovery = 93.12%	
6) S 2-Flurobiphenyl (SURR)	8.216	5442271	47.254 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 94.51%	
11) S ortho-Terphenyl (SURR)	11.251	4583202	23.829 ug/ml
Spiked Amount 50.000		Recovery = 47.66%	
Target Compounds			

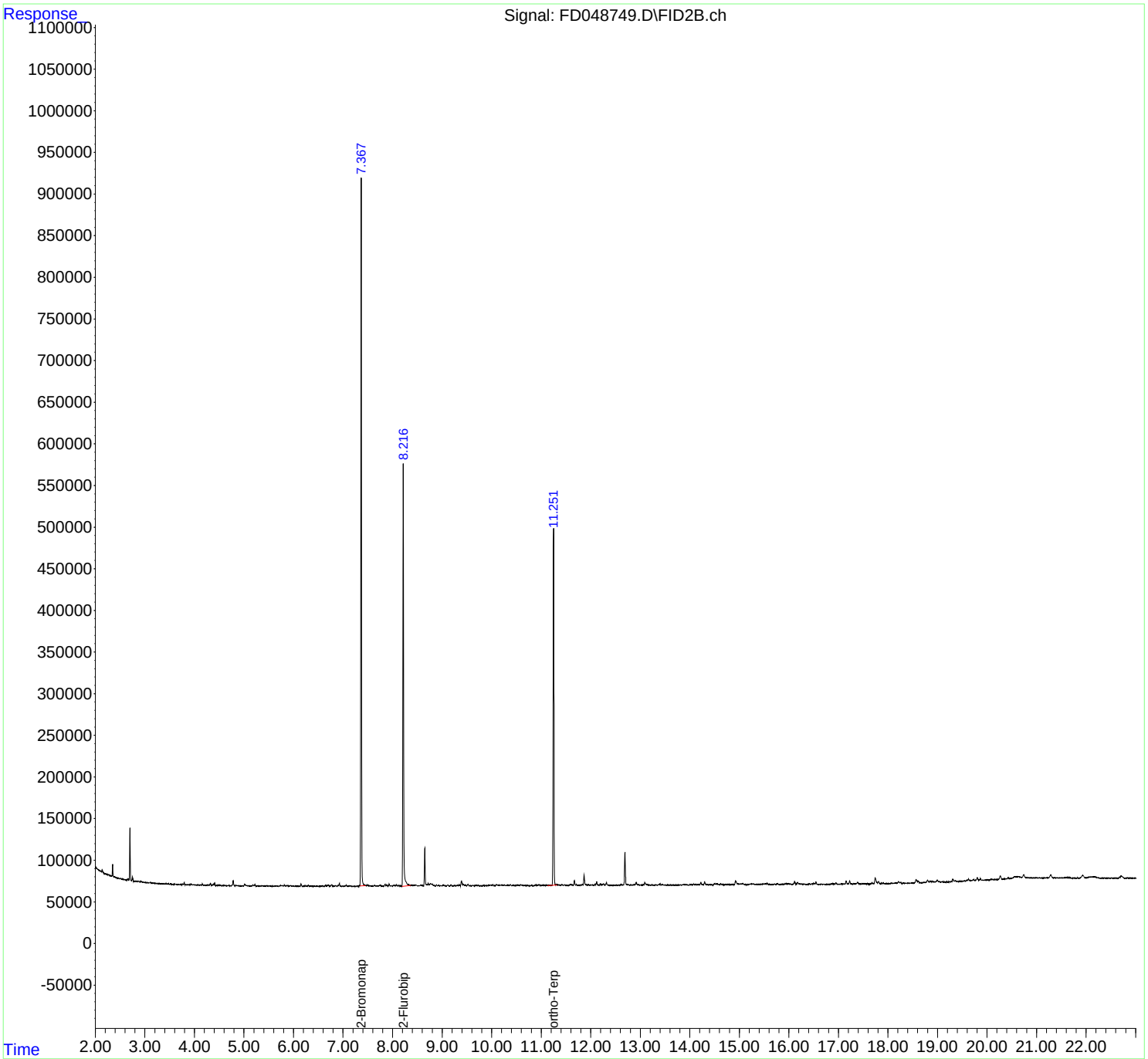
(f)=RT Delta > 1/2 Window (m)=manual int.

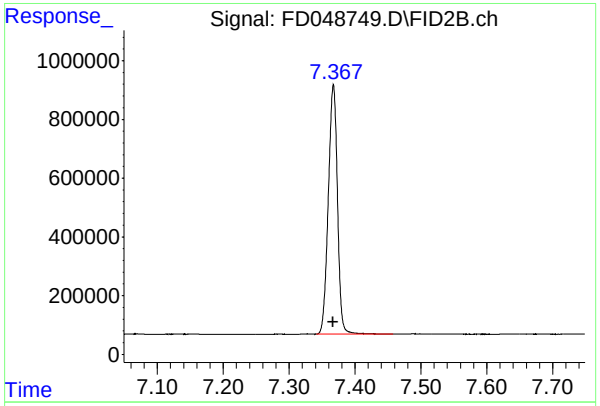
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048749.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:40
Operator : YP/AJ
Sample : P4839-10
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-18

Integration File: sample.E
Quant Time: Nov 16 09:52:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

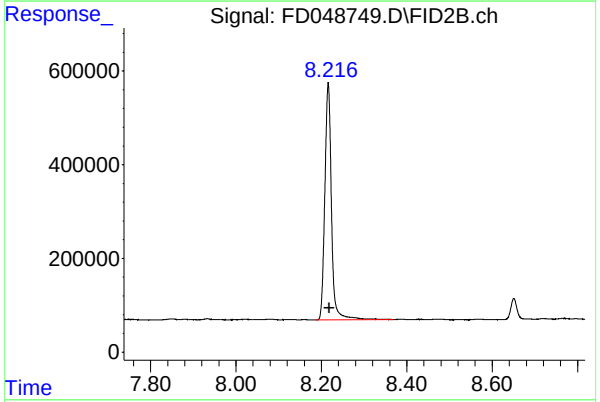




#4 2-Bromonaphthalene (SURR)

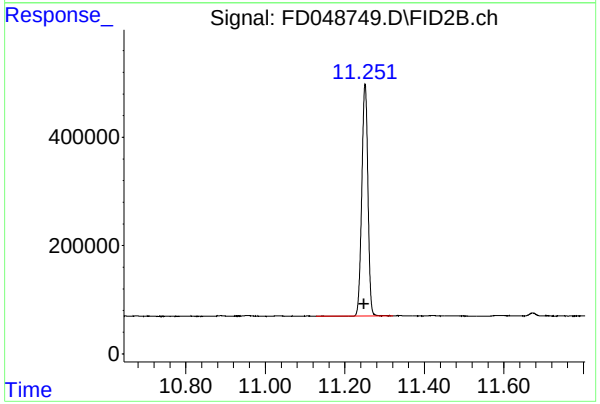
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 8197383
Conc: 46.56 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-18



#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 5442271
Conc: 47.25 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.251 min
Delta R.T.: 0.002 min
Response: 4583202
Conc: 23.83 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048749.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:40
Sample : P4839-10
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.057	4.042	4.091	BV	321	4023	0.05%	0.016%
2	4.102	4.091	4.144	VV	369	6874	0.08%	0.027%
3	4.161	4.144	4.186	VV	1816	19673	0.24%	0.077%
4	4.200	4.186	4.213	VV	515	5416	0.07%	0.021%
5	4.217	4.213	4.240	VV	300	2832	0.03%	0.011%
6	4.269	4.252	4.288	VV	907	11182	0.14%	0.044%
7	4.323	4.288	4.348	VV	2809	37426	0.45%	0.147%
8	4.356	4.348	4.364	VV	544	4052	0.05%	0.016%
9	4.379	4.364	4.392	VV	1904	18752	0.23%	0.074%
10	4.408	4.392	4.441	VV	3552	35611	0.43%	0.140%
11	4.451	4.441	4.458	VV	176	1511	0.02%	0.006%
12	4.480	4.458	4.500	VV	732	9703	0.12%	0.038%
13	4.509	4.500	4.515	VV	612	5094	0.06%	0.020%
14	4.521	4.515	4.553	VV	769	8528	0.10%	0.034%
15	4.596	4.564	4.632	PV	645	11175	0.14%	0.044%
16	4.659	4.652	4.666	VV	279	1596	0.02%	0.006%
17	4.675	4.666	4.682	VV	368	2188	0.03%	0.009%
18	4.687	4.682	4.693	VV	434	2186	0.03%	0.009%
19	4.699	4.693	4.728	VV	603	6109	0.07%	0.024%
20	4.759	4.728	4.765	VV	1306	11756	0.14%	0.046%
21	4.781	4.765	4.815	VV	6596	76250	0.92%	0.300%
22	4.837	4.815	4.853	VV	1455	14760	0.18%	0.058%
23	4.866	4.853	4.918	VV	655	11359	0.14%	0.045%
24	4.925	4.918	4.947	PV	272	2323	0.03%	0.009%
25	4.969	4.958	4.978	VV	464	2661	0.03%	0.010%
26	4.984	4.978	4.995	VV	233	1398	0.02%	0.006%
27	5.014	4.995	5.048	VV	2511	38652	0.47%	0.152%
28	5.054	5.048	5.063	VV	575	4321	0.05%	0.017%
29	5.067	5.063	5.100	VV	522	6836	0.08%	0.027%
30	5.112	5.100	5.126	VV	290	2695	0.03%	0.011%
31	5.146	5.126	5.162	VV	461	6803	0.08%	0.027%
32	5.182	5.162	5.203	VV	1819	22527	0.27%	0.089%
33	5.221	5.203	5.248	VV	2432	27614	0.33%	0.109%
34	5.263	5.248	5.270	VV	356	3717	0.04%	0.015%
35	5.276	5.270	5.309	VV	491	6220	0.08%	0.024%
36	5.342	5.309	5.352	PV	360	5721	0.07%	0.023%

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37	5.368	5.352	5.392	VV	528	9028	0.11%	0.036%
38	5.394	5.392	5.399	VV	386	1259	0.02%	0.005%
39	5.409	5.399	5.416	VV	286	2572	0.03%	0.010%
40	5.423	5.416	5.439	VV	379	3740	0.05%	0.015%
41	5.463	5.439	5.497	VV	767	13821	0.17%	0.054%
42	5.505	5.497	5.532	VV	531	7519	0.09%	0.030%
43	5.537	5.532	5.560	VV	238	3291	0.04%	0.013%
44	5.571	5.560	5.607	VV	244	4077	0.05%	0.016%
45	5.628	5.607	5.659	VV	432	8799	0.11%	0.035%
46	5.665	5.659	5.684	VV	432	3744	0.05%	0.015%
47	5.689	5.684	5.696	VV	264	1492	0.02%	0.006%
48	5.702	5.696	5.710	VV	459	2119	0.03%	0.008%
49	5.730	5.710	5.748	VV	1025	15451	0.19%	0.061%
50	5.771	5.748	5.790	VV	961	18044	0.22%	0.071%
51	5.815	5.790	5.835	VV	1595	22811	0.28%	0.090%
52	5.851	5.835	5.870	VV	698	11021	0.13%	0.043%
53	5.886	5.870	5.905	VV	1178	14144	0.17%	0.056%
54	5.913	5.905	5.918	VV	379	2746	0.03%	0.011%
55	5.938	5.918	5.962	VV	837	15517	0.19%	0.061%
56	5.975	5.962	6.010	VV	455	7006	0.08%	0.028%
57	6.017	6.010	6.025	VV	328	2504	0.03%	0.010%
58	6.036	6.025	6.058	VV	446	5246	0.06%	0.021%
59	6.086	6.058	6.109	VV	474	7585	0.09%	0.030%
60	6.152	6.109	6.186	PV	3296	39215	0.47%	0.154%
61	6.197	6.186	6.202	VV	309	2463	0.03%	0.010%
62	6.207	6.202	6.213	VV	387	1997	0.02%	0.008%
63	6.233	6.213	6.255	VV	1197	13801	0.17%	0.054%
64	6.268	6.255	6.285	VV	820	7983	0.10%	0.031%
65	6.299	6.285	6.319	VV	1797	18826	0.23%	0.074%
66	6.335	6.319	6.357	VV	652	8119	0.10%	0.032%
67	6.372	6.357	6.389	VV	1062	12042	0.15%	0.047%
68	6.406	6.389	6.410	VV	408	4090	0.05%	0.016%
69	6.421	6.410	6.445	VV	578	8097	0.10%	0.032%
70	6.464	6.445	6.482	VV	435	5913	0.07%	0.023%
71	6.485	6.482	6.501	VV	268	2048	0.02%	0.008%
72	6.518	6.501	6.528	VV	397	5163	0.06%	0.020%
73	6.538	6.528	6.572	VV	634	11052	0.13%	0.043%
74	6.588	6.572	6.608	VV	1290	15215	0.18%	0.060%
75	6.642	6.608	6.662	VV	1440	26368	0.32%	0.104%
76	6.666	6.662	6.675	VV	1103	7854	0.10%	0.031%
77	6.695	6.675	6.700	VV	1627	19978	0.24%	0.079%
78	6.705	6.700	6.742	VV	1730	23607	0.29%	0.093%
79	6.768	6.742	6.797	VV	2267	39480	0.48%	0.155%
80	6.809	6.797	6.829	VV	646	10202	0.12%	0.040%
81	6.842	6.829	6.865	VV	889	15431	0.19%	0.061%
82	6.870	6.865	6.884	VV	825	7246	0.09%	0.029%
83	6.927	6.884	6.970	VV	3896	65837	0.80%	0.259%
84	6.987	6.970	7.002	VV	699	9157	0.11%	0.036%
85	7.007	7.002	7.020	VV	614	4659	0.06%	0.018%
86	7.037	7.020	7.047	VV	892	10662	0.13%	0.042%
87	7.068	7.047	7.093	VV	1721	25679	0.31%	0.101%
88	7.135	7.093	7.145	VV	918	19667	0.24%	0.077%
89	7.158	7.145	7.180	VV	924	11906	0.14%	0.047%

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90	7.210	7.180	7.220	PV	432	6838	0.08%	0.027%
91	7.235	7.220	7.249	VV	576	7785	0.09%	0.031%
92	7.286	7.249	7.311	VV	898	16531	0.20%	0.065%
93	7.328	7.311	7.340	VV	1662	18130	0.22%	0.071%
94	7.367	7.340	7.456	VV	849444	8265277	100.00%	32.531%
95	7.462	7.456	7.470	VV	1337	10460	0.13%	0.041%
96	7.488	7.470	7.516	VV	1778	36381	0.44%	0.143%
97	7.520	7.516	7.555	VV	944	18690	0.23%	0.074%
98	7.562	7.555	7.578	VV	801	8647	0.10%	0.034%
99	7.587	7.578	7.614	VV	672	11687	0.14%	0.046%
100	7.629	7.614	7.673	VV	1355	28929	0.35%	0.114%
101	7.684	7.673	7.710	VV	1107	15396	0.19%	0.061%
102	7.752	7.710	7.796	VV	1509	45487	0.55%	0.179%
103	7.804	7.796	7.821	VV	425	4571	0.06%	0.018%
104	7.850	7.821	7.867	VV	2602	40005	0.48%	0.157%
105	7.882	7.867	7.911	VV	1818	29310	0.35%	0.115%
106	7.933	7.911	7.952	VV	2885	36355	0.44%	0.143%
107	7.965	7.952	7.981	VV	977	13222	0.16%	0.052%
108	7.997	7.981	8.003	VV	853	8591	0.10%	0.034%
109	8.021	8.003	8.055	VV	1630	36470	0.44%	0.144%
110	8.080	8.055	8.105	VV	1828	35091	0.42%	0.138%
111	8.119	8.105	8.149	VV	1122	21379	0.26%	0.084%
112	8.161	8.149	8.179	VV	953	9095	0.11%	0.036%
113	8.216	8.179	8.303	VV	506562	5435755	65.77%	21.395%
114	8.311	8.303	8.368	VV	2513	70410	0.85%	0.277%
115	8.388	8.368	8.406	VV	1571	27976	0.34%	0.110%
116	8.426	8.406	8.453	VV	1372	30401	0.37%	0.120%
117	8.466	8.453	8.505	VV	1569	36232	0.44%	0.143%
118	8.525	8.505	8.543	VV	819	15312	0.19%	0.060%
119	8.566	8.543	8.591	VV	1772	32168	0.39%	0.127%
120	8.598	8.591	8.622	VV	1027	14017	0.17%	0.055%
121	8.651	8.622	8.700	VV	46284	500058	6.05%	1.968%
122	8.719	8.700	8.745	VV	2790	59968	0.73%	0.236%
123	8.766	8.745	8.786	VV	3326	66183	0.80%	0.260%
124	8.797	8.786	8.828	VV	2600	47579	0.58%	0.187%
125	8.834	8.828	8.858	VV	1053	13476	0.16%	0.053%
126	8.885	8.858	8.905	VV	1899	27396	0.33%	0.108%
127	8.928	8.905	8.956	VV	1314	25498	0.31%	0.100%
128	8.969	8.956	8.994	VV	725	12155	0.15%	0.048%
129	9.026	8.994	9.068	VV	1428	36911	0.45%	0.145%
130	9.073	9.068	9.086	VV	428	3737	0.05%	0.015%
131	9.116	9.086	9.155	VV	1573	29780	0.36%	0.117%
132	9.182	9.155	9.222	VV	1409	29761	0.36%	0.117%
133	9.252	9.222	9.278	VV	1156	20718	0.25%	0.082%
134	9.309	9.278	9.335	VV	1244	26401	0.32%	0.104%
135	9.348	9.335	9.369	VV	1418	19214	0.23%	0.076%
136	9.390	9.369	9.463	VV	6100	139649	1.69%	0.550%
137	9.470	9.463	9.488	VV	1145	13051	0.16%	0.051%
138	9.521	9.488	9.565	VV	2047	41593	0.50%	0.164%
139	9.613	9.565	9.620	VV	863	17950	0.22%	0.071%
140	9.627	9.620	9.653	VV	885	12450	0.15%	0.049%
141	9.688	9.653	9.715	VV	1077	24355	0.29%	0.096%

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142	9.732	9.715	9.767	VV	1112	16079	0.19%	0.063%
143	9.798	9.767	9.816	VV	472	8480	0.10%	0.033%
144	9.842	9.816	9.868	VV	1202	20182	0.24%	0.079%
145	9.885	9.868	9.900	VV	589	8467	0.10%	0.033%
146	9.919	9.900	9.925	VV	600	7091	0.09%	0.028%
147	9.945	9.925	9.963	VV	1372	20593	0.25%	0.081%
148	9.977	9.963	9.998	VV	1263	20721	0.25%	0.082%
149	10.024	9.998	10.051	VV	1569	29910	0.36%	0.118%
150	10.097	10.051	10.130	VV	1864	47344	0.57%	0.186%
151	10.143	10.130	10.167	VV	1244	21127	0.26%	0.083%
152	10.192	10.167	10.201	VV	1070	17441	0.21%	0.069%
153	10.215	10.201	10.232	VV	1097	17819	0.22%	0.070%
154	10.237	10.232	10.241	VV	836	4604	0.06%	0.018%
155	10.264	10.241	10.293	VV	1135	24256	0.29%	0.095%
156	10.308	10.293	10.331	VV	1238	18924	0.23%	0.074%
157	10.345	10.331	10.353	VV	912	10130	0.12%	0.040%
158	10.379	10.353	10.403	VV	1628	30177	0.37%	0.119%
159	10.435	10.403	10.462	VV	783	19295	0.23%	0.076%
160	10.476	10.462	10.493	VV	612	10042	0.12%	0.040%
161	10.515	10.493	10.548	VV	1382	29887	0.36%	0.118%
162	10.552	10.548	10.562	VV	663	5165	0.06%	0.020%
163	10.590	10.562	10.609	VV	1433	26612	0.32%	0.105%
164	10.617	10.609	10.636	VV	794	9951	0.12%	0.039%
165	10.648	10.636	10.654	VV	759	6956	0.08%	0.027%
166	10.676	10.654	10.694	VV	851	13556	0.16%	0.053%
167	10.707	10.694	10.732	VV	668	7785	0.09%	0.031%
168	10.755	10.732	10.779	VV	343	5597	0.07%	0.022%
169	10.802	10.779	10.807	VV	603	5603	0.07%	0.022%
170	10.812	10.807	10.830	VV	554	4759	0.06%	0.019%
171	10.859	10.830	10.870	VV	482	7520	0.09%	0.030%
172	10.889	10.870	10.913	VV	1358	19191	0.23%	0.076%
173	10.934	10.913	10.938	VV	708	8536	0.10%	0.034%
174	10.956	10.938	11.005	VV	1518	29287	0.35%	0.115%
175	11.036	11.005	11.059	VV	983	17790	0.22%	0.070%
176	11.066	11.059	11.082	VV	558	5424	0.07%	0.021%
177	11.107	11.082	11.129	VV	669	10679	0.13%	0.042%
178	11.145	11.129	11.157	VV	523	5912	0.07%	0.023%
179	11.163	11.157	11.169	VV	374	1992	0.02%	0.008%
180	11.180	11.169	11.215	VV	492	7517	0.09%	0.030%
181	11.251	11.215	11.292	VV	429048	4604692	55.71%	18.124%
182	11.300	11.292	11.327	VV	1460	23527	0.28%	0.093%
183	11.339	11.327	11.354	VV	1359	17397	0.21%	0.068%
184	11.375	11.354	11.385	VV	811	13088	0.16%	0.052%
185	11.389	11.385	11.396	VV	721	4009	0.05%	0.016%
186	11.421	11.396	11.469	VV	1459	37323	0.45%	0.147%
187	11.481	11.469	11.490	VV	773	8743	0.11%	0.034%
188	11.495	11.490	11.499	VV	566	2750	0.03%	0.011%
189	11.501	11.499	11.522	VV	636	5081	0.06%	0.020%
190	11.526	11.522	11.533	VV	201	1033	0.01%	0.004%
191	11.539	11.533	11.560	VV	379	4477	0.05%	0.018%
192	11.581	11.560	11.595	VV	1433	20732	0.25%	0.082%
193	11.599	11.595	11.626	VV	1241	18346	0.22%	0.072%
194	11.633	11.626	11.651	VV	785	9871	0.12%	0.039%

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195	11.672	11.651	11.701	VV	6200	79148	0.96%	0.312%
196	11.712	11.701	11.728	VV	1029	11715	0.14%	0.046%
197	11.749	11.728	11.762	VV	806	10714	0.13%	0.042%
198	11.770	11.762	11.783	VV	570	6103	0.07%	0.024%
199	11.831	11.783	11.845	VV	1441	31847	0.39%	0.125%
200	11.868	11.845	11.941	VV	12569	180992	2.19%	0.712%
201	11.953	11.941	11.964	VV	868	9430	0.11%	0.037%
202	11.978	11.964	11.988	VV	730	9511	0.12%	0.037%
203	11.993	11.988	12.007	VV	755	7146	0.09%	0.028%
204	12.022	12.007	12.039	VV	910	14028	0.17%	0.055%
205	12.043	12.039	12.059	VV	623	6819	0.08%	0.027%
206	12.089	12.059	12.102	VV	1342	22633	0.27%	0.089%
207	12.121	12.102	12.145	VV	4728	63569	0.77%	0.250%
208	12.150	12.145	12.172	VV	687	8119	0.10%	0.032%
209	12.191	12.172	12.225	VV	2058	35804	0.43%	0.141%
210	12.255	12.225	12.293	VV	2135	44158	0.53%	0.174%
211	12.319	12.293	12.368	VV	3042	54984	0.67%	0.216%
212	12.390	12.368	12.396	VV	419	4251	0.05%	0.017%
213	12.423	12.396	12.444	VV	455	7446	0.09%	0.029%
214	12.471	12.459	12.487	VV	198	2039	0.02%	0.008%
215	12.524	12.487	12.547	VV	568	11757	0.14%	0.046%
216	12.552	12.547	12.555	VV	270	1280	0.02%	0.005%
217	12.568	12.555	12.582	VV	518	5219	0.06%	0.021%
218	12.610	12.582	12.648	VV	1116	25482	0.31%	0.100%
219	12.692	12.648	12.728	VV	39936	479764	5.80%	1.888%
220	12.740	12.728	12.755	VV	1293	17309	0.21%	0.068%
221	12.761	12.755	12.779	VV	986	10455	0.13%	0.041%
222	12.782	12.779	12.812	VV	663	8524	0.10%	0.034%
223	12.820	12.812	12.847	VV	480	6965	0.08%	0.027%
224	12.862	12.847	12.866	VV	809	6888	0.08%	0.027%
225	12.871	12.866	12.883	VV	799	7171	0.09%	0.028%
226	12.890	12.883	12.895	VV	761	4691	0.06%	0.018%
227	12.918	12.895	12.949	VV	3722	62146	0.75%	0.245%
228	12.954	12.949	12.998	VV	776	17564	0.21%	0.069%
229	13.003	12.998	13.021	VV	567	6542	0.08%	0.026%
230	13.025	13.021	13.037	VV	442	3884	0.05%	0.015%
231	13.065	13.037	13.069	VV	738	11497	0.14%	0.045%
232	13.094	13.069	13.135	VV	3461	63845	0.77%	0.251%
233	13.144	13.135	13.167	VV	1087	13607	0.16%	0.054%
234	13.180	13.167	13.185	VV	433	4115	0.05%	0.016%
235	13.192	13.185	13.205	VV	529	5568	0.07%	0.022%
236	13.210	13.205	13.229	VV	548	6152	0.07%	0.024%
237	13.239	13.229	13.250	VV	560	5187	0.06%	0.020%
238	13.256	13.250	13.262	VV	395	2405	0.03%	0.009%
239	13.268	13.262	13.298	VV	459	7464	0.09%	0.029%
240	13.319	13.298	13.337	VV	651	9339	0.11%	0.037%
241	13.400	13.337	13.424	VV	2137	40489	0.49%	0.159%
242	13.446	13.424	13.467	VV	1319	18266	0.22%	0.072%
243	13.474	13.467	13.482	VV	490	3413	0.04%	0.013%
244	13.495	13.482	13.513	VV	483	6319	0.08%	0.025%
245	13.520	13.513	13.528	VV	378	2587	0.03%	0.010%
246	13.532	13.528	13.537	VV	277	1362	0.02%	0.005%

247	13.538	13.537	13.548	VV	286	1545	0.02%	0.006%
248	13.555	13.548	13.560	VV	336	1832	0.02%	0.007%
249	13.565	13.560	13.583	VV	276	2925	0.04%	0.012%
250	13.591	13.583	13.597	VV	209	1226	0.01%	0.005%
251	13.623	13.597	13.636	VV	315	3598	0.04%	0.014%
252	13.656	13.636	13.677	PV	266	4406	0.05%	0.017%
253	13.681	13.677	13.693	VV	217	2138	0.03%	0.008%
254	13.698	13.693	13.724	VV	287	4158	0.05%	0.016%
255	13.735	13.724	13.755	VV	304	3469	0.04%	0.014%
256	13.760	13.755	13.769	VV	350	1757	0.02%	0.007%
257	13.776	13.769	13.785	VV	281	2019	0.02%	0.008%
258	13.808	13.785	13.819	VV	478	6246	0.08%	0.025%
259	13.823	13.819	13.830	VV	323	1557	0.02%	0.006%
260	13.852	13.830	13.863	VV	589	7628	0.09%	0.030%
261	13.879	13.863	13.910	VV	1251	19908	0.24%	0.078%
262	13.923	13.910	13.957	VV	491	10251	0.12%	0.040%
263	13.979	13.957	13.994	VV	351	5405	0.07%	0.021%
264	14.007	13.994	14.020	VV	634	7853	0.10%	0.031%
265	14.034	14.020	14.059	VV	551	10405	0.13%	0.041%
266	14.081	14.059	14.127	VV	1256	31378	0.38%	0.124%
267	14.132	14.127	14.144	VV	736	5765	0.07%	0.023%
268	14.156	14.144	14.192	VV	653	14228	0.17%	0.056%
269	14.222	14.192	14.260	VV	3213	53924	0.65%	0.212%
270	14.299	14.260	14.338	VV	3927	63953	0.77%	0.252%
271	14.352	14.338	14.361	VV	696	7005	0.08%	0.028%
272	14.365	14.361	14.370	VV	388	2016	0.02%	0.008%
273	14.377	14.370	14.402	VV	516	6905	0.08%	0.027%
274	14.415	14.402	14.428	VV	371	4393	0.05%	0.017%
275	14.435	14.428	14.440	VV	412	2422	0.03%	0.010%
276	14.445	14.440	14.470	VV	372	4256	0.05%	0.017%
277	14.504	14.470	14.522	VV	1739	31944	0.39%	0.126%
278	14.541	14.522	14.570	VV	1876	36409	0.44%	0.143%
279	14.579	14.570	14.602	VV	983	12451	0.15%	0.049%
280	14.629	14.602	14.648	VV	1370	22400	0.27%	0.088%
281	14.654	14.648	14.687	VV	535	9009	0.11%	0.035%
282	14.714	14.687	14.718	VV	741	8224	0.10%	0.032%
283	14.722	14.718	14.728	VV	553	3100	0.04%	0.012%
284	14.737	14.728	14.757	VV	642	9354	0.11%	0.037%
285	14.786	14.757	14.815	VV	811	19849	0.24%	0.078%
286	14.833	14.815	14.840	VV	559	6391	0.08%	0.025%
287	14.849	14.840	14.872	VV	536	6647	0.08%	0.026%
288	14.879	14.872	14.897	VV	443	4641	0.06%	0.018%
289	14.924	14.897	14.983	VV	4851	117942	1.43%	0.464%
290	14.991	14.983	15.007	VV	1238	15015	0.18%	0.059%
291	15.026	15.007	15.046	VV	1127	23137	0.28%	0.091%
292	15.068	15.046	15.097	VV	2012	38624	0.47%	0.152%
293	15.111	15.097	15.158	VV	709	14930	0.18%	0.059%
294	15.171	15.158	15.175	VV	462	3313	0.04%	0.013%
295	15.185	15.175	15.197	VV	590	6338	0.08%	0.025%
296	15.201	15.197	15.207	VV	611	3057	0.04%	0.012%
297	15.230	15.207	15.243	VV	1093	18247	0.22%	0.072%
298	15.249	15.243	15.277	VV	1126	18893	0.23%	0.074%
299	15.286	15.277	15.314	VV	1060	18750	0.23%	0.074%

300	15.329	15.314	15.347	VV	699	11049	0.13%	0.043%
301	15.369	15.347	15.387	VV	838	14842	0.18%	0.058%
302	15.395	15.387	15.399	VV	660	4559	0.06%	0.018%
303	15.416	15.399	15.428	VV	754	10918	0.13%	0.043%
304	15.431	15.428	15.441	VV	658	3865	0.05%	0.015%
305	15.450	15.441	15.455	VV	760	5230	0.06%	0.021%
306	15.475	15.455	15.493	VV	1088	19005	0.23%	0.075%
307	15.518	15.493	15.540	VV	1372	27667	0.33%	0.109%
308	15.557	15.540	15.589	VV	1684	31689	0.38%	0.125%
309	15.594	15.589	15.617	VV	750	8241	0.10%	0.032%
310	15.622	15.617	15.628	VV	298	1547	0.02%	0.006%
311	15.637	15.628	15.652	VV	385	4788	0.06%	0.019%
312	15.656	15.652	15.668	VV	300	2604	0.03%	0.010%
313	15.670	15.668	15.677	VV	297	1109	0.01%	0.004%
314	15.716	15.677	15.740	VV	877	22169	0.27%	0.087%
315	15.776	15.740	15.817	VV	1193	31084	0.38%	0.122%
316	15.822	15.817	15.830	VV	294	1750	0.02%	0.007%
317	15.850	15.830	15.879	VV	661	12196	0.15%	0.048%
318	15.889	15.879	15.908	VV	532	7314	0.09%	0.029%
319	15.939	15.908	15.988	VV	1529	45571	0.55%	0.179%
320	16.005	15.988	16.023	VV	1087	17142	0.21%	0.067%
321	16.039	16.023	16.067	VV	909	16168	0.20%	0.064%
322	16.081	16.067	16.086	VV	602	5530	0.07%	0.022%
323	16.114	16.086	16.151	VV	4104	65860	0.80%	0.259%
324	16.171	16.151	16.240	VV	2550	68683	0.83%	0.270%
325	16.250	16.240	16.267	VV	817	10713	0.13%	0.042%
326	16.272	16.267	16.277	VV	390	2128	0.03%	0.008%
327	16.310	16.277	16.315	VV	626	10443	0.13%	0.041%
328	16.320	16.315	16.336	VV	594	5688	0.07%	0.022%
329	16.343	16.336	16.357	VV	384	3735	0.05%	0.015%
330	16.364	16.357	16.369	VV	243	1278	0.02%	0.005%
331	16.415	16.369	16.421	VV	973	16565	0.20%	0.065%
332	16.424	16.421	16.443	VV	668	6352	0.08%	0.025%
333	16.469	16.443	16.482	VV	1021	17279	0.21%	0.068%
334	16.502	16.482	16.523	VV	1900	29860	0.36%	0.118%
335	16.544	16.523	16.575	VV	3206	46595	0.56%	0.183%
336	16.580	16.575	16.594	VV	427	3685	0.04%	0.015%
337	16.614	16.594	16.622	VV	430	5653	0.07%	0.022%
338	16.631	16.622	16.649	VV	412	4665	0.06%	0.018%
339	16.677	16.649	16.698	VV	475	9967	0.12%	0.039%
340	16.705	16.698	16.728	VV	487	4925	0.06%	0.019%
341	16.744	16.728	16.763	PV	278	3227	0.04%	0.013%
342	16.780	16.763	16.790	PV	284	3038	0.04%	0.012%
343	16.810	16.790	16.828	VV	576	6570	0.08%	0.026%
344	16.831	16.828	16.842	VV	247	1481	0.02%	0.006%
345	16.874	16.842	16.900	VV	713	17658	0.21%	0.070%
346	16.912	16.900	16.921	VV	573	6546	0.08%	0.026%
347	16.949	16.921	16.987	VV	1544	28438	0.34%	0.112%
348	17.011	16.987	17.025	VV	262	4310	0.05%	0.017%
349	17.067	17.025	17.112	VV	737	19141	0.23%	0.075%
350	17.156	17.112	17.188	VV	3778	60834	0.74%	0.239%
351	17.226	17.188	17.282	VV	4142	63575	0.77%	0.250%

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352	17.336	17.282	17.343	VV	505	13180	0.16%	0.052%
353	17.386	17.343	17.415	VV	2337	42305	0.51%	0.167%
354	17.428	17.415	17.445	VV	314	3483	0.04%	0.014%
355	17.472	17.445	17.517	VV	814	16974	0.21%	0.067%
356	17.536	17.517	17.576	VV	433	8723	0.11%	0.034%
357	17.591	17.576	17.604	VV	374	3144	0.04%	0.012%
358	17.620	17.604	17.629	VV	193	1229	0.01%	0.005%
359	17.680	17.629	17.707	PV	1112	20883	0.25%	0.082%
360	17.743	17.707	17.788	VV	7256	153506	1.86%	0.604%
361	17.806	17.788	17.853	VV	2891	50077	0.61%	0.197%
362	17.868	17.853	17.963	VV	704	24927	0.30%	0.098%
363	17.973	17.963	17.993	VV	210	3253	0.04%	0.013%
364	18.005	17.993	18.023	VV	304	2835	0.03%	0.011%
365	18.077	18.023	18.126	PV	511	11903	0.14%	0.047%

Sum of corrected areas: 25407091

Aromatic EPH 111424.M Sat Nov 16 10:29:38 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-19			SDG No.:	P4839
Lab Sample ID:	P4839-11			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.3
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
11/14/24 14:15	11/15/24 18:18	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	13.3		1	0.46	1.20	mg/kg	FC067781.D
Aliphatic C12-C16	Aliphatic C12-C16	24.8		5	1.44	3.99	mg/kg	FC067819.D
Aliphatic C16-C21	Aliphatic C16-C21	3.81		1	0.36	1.20	mg/kg	FC067781.D
Aliphatic C21-C28	Aliphatic C21-C28	0.96	U	1	0.96	1.60	mg/kg	FC067781.D
Aliphatic C28-C40	Aliphatic C28-C40	8.71		1	2.16	2.40	mg/kg	FC067781.D
Aromatic C10-C12	Aromatic C10-C12	1.94		1	0.36	0.80	mg/kg	FD048750.D
Aromatic C12-C16	Aromatic C12-C16	6.88		1	0.41	1.20	mg/kg	FD048750.D
Aromatic C16-C21	Aromatic C16-C21	4.77		1	1.15	2.00	mg/kg	FD048750.D
Aromatic C21-C36	Aromatic C21-C36	2.40	U	1	2.40	3.20	mg/kg	FD048750.D
Total AliphaticEPH	Total AliphaticEPH	50.6			5.37	10.4	mg/kg	
Total AromaticEPH	Total AromaticEPH	13.6			4.32	7.20	mg/kg	
Total EPH	Total EPH	64.2			9.69	17.6	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-19		SDG No.:	P4839	
Lab Sample ID:	P4839-11		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.3	
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
FC067781.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		13.3		0.46	1.20	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		27.7	E	0.29	0.80	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		3.81		0.36	1.20	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.96	U	0.96	1.60	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		8.71		2.16	2.40	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		34.8		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:	P4839-11	Acq On:	15 Nov 2024 18:18
Client Sample ID:	EX-9-TPH-19	Operator:	YP/AJ
Data file:	FC067781.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	108597975	673.965		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	5053895	34.82		ug/ml
Aliphatic C9-C12	3.172	6.448	27615469	166.568	300	ug/ml
Aliphatic C12-C16	6.449	9.838	58965664	346.074	200	ug/ml
Aliphatic C16-C21	9.839	13.196	8082878	47.652	300	ug/ml
Aliphatic C21-C28	13.197	16.850	726950	4.622	400	ug/ml
Aliphatic C28-C40	16.851	21.693	13207014	109.049	600	ug/ml
Aliphatic C9-C28	3.172	16.850	95390961	564.916	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067781.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:18
Operator : YP/AJ
Sample : P4839-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-19

Integration File: autoint1.e
Quant Time: Nov 16 08:24:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.929	5053895	34.816 ug/ml
Spiked Amount 50.000		Recovery = 69.63%	
Target Compounds			

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

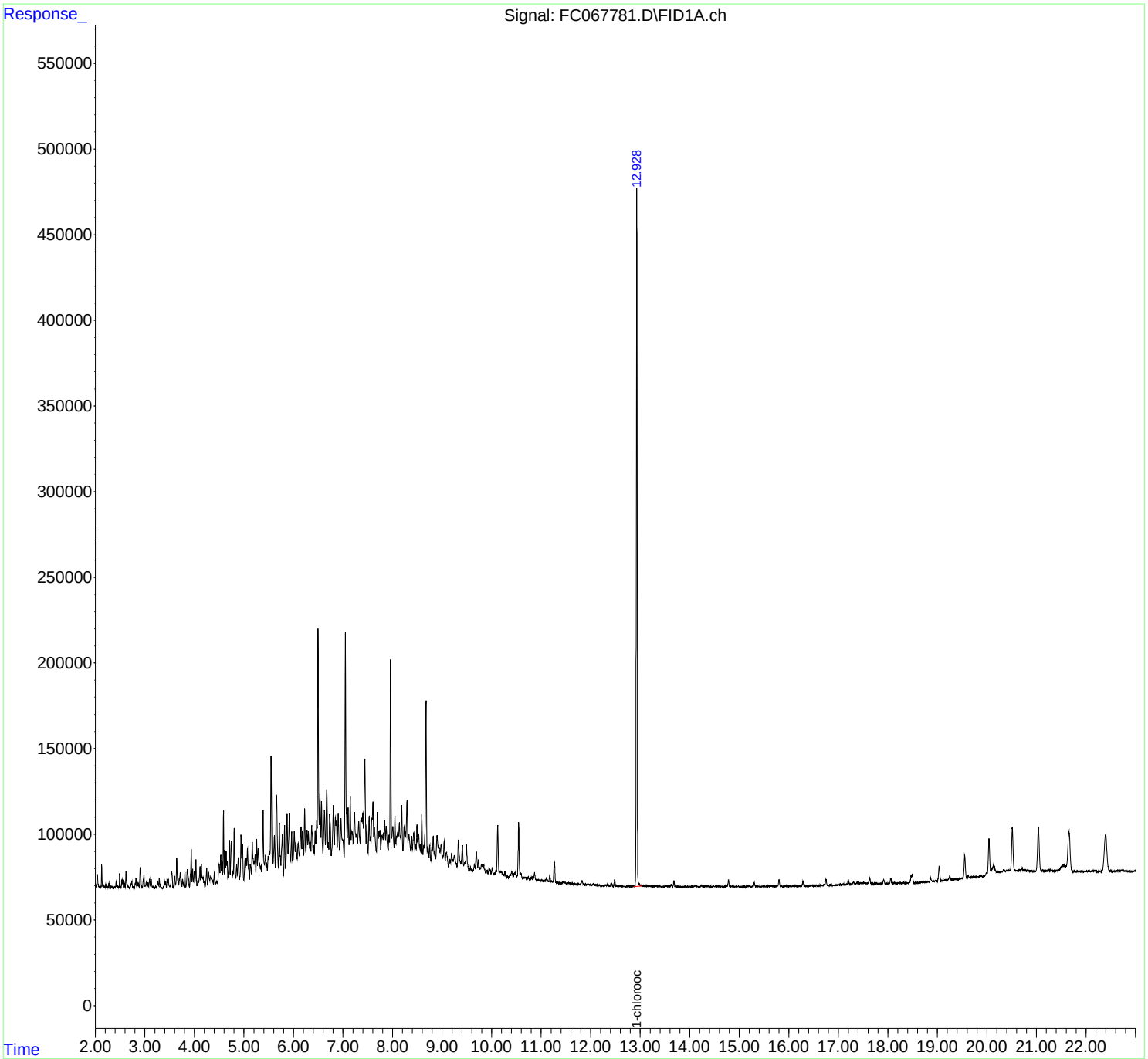
Quantitation Report (QT Reviewed)

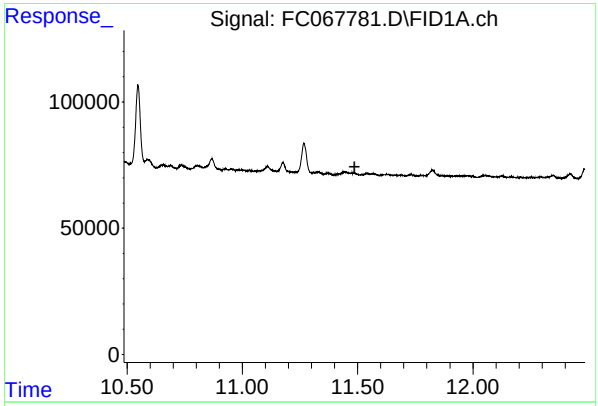
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067781.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:18
Operator : YP/AJ
Sample : P4839-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-19

Integration File: autoint1.e
Quant Time: Nov 16 08:24:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

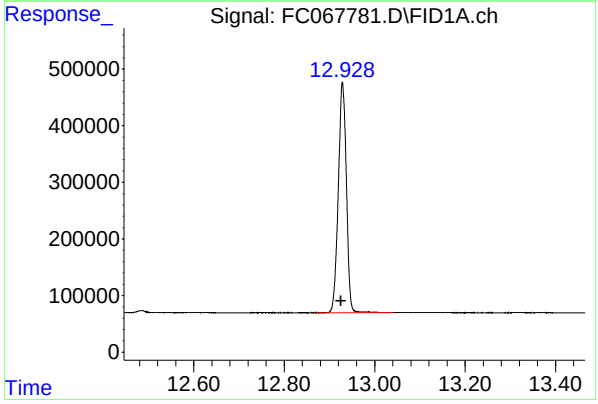




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-19



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.003 min
Response: 5053895
Conc: 34.82 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067781.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:18
Sample : P4839-11
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.259	3.225	3.276	BV	3316	40520	0.79%	0.035%
2	3.291	3.276	3.355	VV	5755	68578	1.34%	0.060%
3	3.397	3.355	3.408	PV	4154	46621	0.91%	0.041%
4	3.418	3.408	3.434	VV	3671	39047	0.76%	0.034%
5	3.472	3.434	3.500	VV	5121	120801	2.36%	0.105%
6	3.511	3.500	3.518	VV	1791	14267	0.28%	0.012%
7	3.538	3.518	3.571	VV	9394	161333	3.16%	0.140%
8	3.598	3.571	3.619	VV	7033	100790	1.97%	0.088%
9	3.643	3.619	3.684	VV	17208	259307	5.08%	0.225%
10	3.714	3.684	3.748	VV	9262	182198	3.57%	0.158%
11	3.762	3.748	3.791	VV	5152	70001	1.37%	0.061%
12	3.808	3.791	3.827	VV	9273	86905	1.70%	0.076%
13	3.856	3.827	3.901	VV	10801	233362	4.57%	0.203%
14	3.937	3.901	3.952	VV	22594	296076	5.80%	0.257%
15	3.965	3.952	3.983	VV	11177	128818	2.52%	0.112%
16	3.998	3.983	4.013	VV	9916	119598	2.34%	0.104%
17	4.031	4.013	4.052	VV	16661	185085	3.62%	0.161%
18	4.074	4.052	4.086	VV	4741	67550	1.32%	0.059%
19	4.114	4.086	4.126	VV	12770	177245	3.47%	0.154%
20	4.141	4.126	4.165	VV	14089	198321	3.88%	0.172%
21	4.175	4.165	4.215	VV	6555	110624	2.17%	0.096%
22	4.248	4.215	4.267	VV	11679	163299	3.20%	0.142%
23	4.288	4.267	4.310	VV	8794	148651	2.91%	0.129%
24	4.325	4.310	4.361	VV	6475	161844	3.17%	0.141%
25	4.371	4.361	4.385	VV	4613	55872	1.09%	0.049%
26	4.402	4.385	4.428	VV	8813	128040	2.51%	0.111%
27	4.451	4.428	4.464	VV	3926	71099	1.39%	0.062%
28	4.496	4.464	4.515	VV	13997	284138	5.56%	0.247%
29	4.532	4.515	4.545	VV	19333	251293	4.92%	0.219%
30	4.557	4.545	4.571	VV	16365	193803	3.79%	0.169%
31	4.587	4.571	4.603	VV	44870	457312	8.95%	0.398%
32	4.615	4.603	4.627	VV	22180	237369	4.65%	0.206%
33	4.641	4.627	4.677	VV	21707	439553	8.60%	0.382%
34	4.706	4.677	4.723	VV	27739	414190	8.11%	0.360%
35	4.745	4.723	4.769	VV	27294	475850	9.31%	0.414%
36	4.803	4.769	4.831	VV	34937	536845	10.51%	0.467%

rteres

37	4.853	4.831	4.867	VV	13558	209047	4.09%	0.182%
38	4.887	4.867	4.910	VV	17141	304718	5.96%	0.265%
39	4.942	4.910	4.957	VV	30814	453187	8.87%	0.394%
40	4.971	4.957	4.997	VV	25430	374193	7.32%	0.325%
41	5.024	4.997	5.037	VV	17125	273838	5.36%	0.238%
42	5.048	5.037	5.057	VV	17382	184826	3.62%	0.161%
43	5.071	5.057	5.110	VV	22799	452168	8.85%	0.393%
44	5.128	5.110	5.149	VV	13801	250664	4.91%	0.218%
45	5.169	5.149	5.198	VV	26818	517615	10.13%	0.450%
46	5.226	5.198	5.240	VV	19314	385096	7.54%	0.335%
47	5.257	5.240	5.272	VV	28436	360296	7.05%	0.313%
48	5.288	5.272	5.332	VV	23475	596211	11.67%	0.518%
49	5.345	5.332	5.357	VV	12791	174281	3.41%	0.152%
50	5.388	5.357	5.416	VV	45365	786548	15.40%	0.684%
51	5.438	5.416	5.473	VV	19224	504772	9.88%	0.439%
52	5.489	5.473	5.498	VV	18271	230927	4.52%	0.201%
53	5.512	5.498	5.522	VV	21238	279876	5.48%	0.243%
54	5.548	5.522	5.575	VV	76611	1260812	24.68%	1.096%
55	5.615	5.575	5.634	VV	30558	716332	14.02%	0.623%
56	5.658	5.634	5.695	VV	53555	1174488	22.99%	1.021%
57	5.715	5.695	5.746	VV	37940	682570	13.36%	0.594%
58	5.776	5.746	5.798	VV	31191	635570	12.44%	0.553%
59	5.821	5.798	5.842	VV	36604	530993	10.39%	0.462%
60	5.872	5.842	5.891	VV	43144	770905	15.09%	0.670%
61	5.917	5.891	5.944	VV	43317	892739	17.48%	0.776%
62	5.964	5.944	5.982	VV	32763	525821	10.29%	0.457%
63	6.017	5.982	6.035	VV	33284	740517	14.50%	0.644%
64	6.049	6.035	6.075	VV	26821	540578	10.58%	0.470%
65	6.096	6.075	6.118	VV	25903	570519	11.17%	0.496%
66	6.154	6.118	6.168	VV	35737	802708	15.71%	0.698%
67	6.183	6.168	6.207	VV	33204	642216	12.57%	0.558%
68	6.227	6.207	6.251	VV	46223	813616	15.93%	0.708%
69	6.276	6.251	6.290	VV	33231	643418	12.59%	0.560%
70	6.302	6.290	6.329	VV	32898	646033	12.65%	0.562%
71	6.340	6.329	6.353	VV	26606	357189	6.99%	0.311%
72	6.368	6.353	6.420	VV	36116	1086046	21.26%	0.944%
73	6.439	6.420	6.452	VV	33192	517931	10.14%	0.450%
74	6.497	6.452	6.521	VV	149642	2561051	50.13%	2.227%
75	6.535	6.521	6.554	VV	54261	840537	16.45%	0.731%
76	6.567	6.554	6.595	VV	50649	834714	16.34%	0.726%
77	6.626	6.595	6.646	VV	45460	1006821	19.71%	0.876%
78	6.673	6.646	6.714	VV	57657	1495030	29.26%	1.300%
79	6.733	6.714	6.764	VV	43091	950036	18.60%	0.826%
80	6.805	6.764	6.825	VV	48184	1146087	22.43%	0.997%
81	6.848	6.825	6.884	VV	41159	1235730	24.19%	1.075%
82	6.905	6.884	6.933	VV	43516	932332	18.25%	0.811%
83	6.961	6.933	7.023	VV	40380	1547434	30.29%	1.346%
84	7.049	7.023	7.086	VV	147567	2361464	46.22%	2.054%
85	7.104	7.086	7.124	VV	46449	795824	15.58%	0.692%
86	7.148	7.124	7.165	VV	53125	921882	18.05%	0.802%
87	7.179	7.165	7.206	VV	32529	754541	14.77%	0.656%
88	7.234	7.206	7.264	VV	43972	1193648	23.37%	1.038%
89	7.276	7.264	7.294	VV	31125	518682	10.15%	0.451%

90	7.319	7.294	7.345	VV	38297	980570	19.19%	0.853%
91	7.371	7.345	7.386	VV	40419	897644	17.57%	0.781%
92	7.401	7.386	7.416	VV	43562	730760	14.30%	0.635%
93	7.442	7.416	7.468	VV	74982	1556767	30.47%	1.354%
94	7.483	7.468	7.507	VV	36850	675973	13.23%	0.588%
95	7.529	7.507	7.546	VV	41577	748214	14.65%	0.651%
96	7.555	7.546	7.564	VV	29391	305722	5.98%	0.266%
97	7.605	7.564	7.623	VV	50038	1364089	26.70%	1.186%
98	7.634	7.623	7.673	VV	34969	879713	17.22%	0.765%
99	7.696	7.673	7.712	VV	43970	757880	14.84%	0.659%
100	7.724	7.712	7.736	VV	32950	441509	8.64%	0.384%
101	7.746	7.736	7.763	VV	33219	470012	9.20%	0.409%
102	7.789	7.763	7.807	VV	30532	747642	14.63%	0.650%
103	7.842	7.807	7.858	VV	38772	996787	19.51%	0.867%
104	7.874	7.858	7.915	VV	35601	966403	18.92%	0.840%
105	7.962	7.915	7.986	VV	131909	2271428	44.46%	1.975%
106	8.007	7.986	8.031	VV	35525	845366	16.55%	0.735%
107	8.049	8.031	8.069	VV	41380	718335	14.06%	0.625%
108	8.105	8.069	8.122	VV	32261	951736	18.63%	0.828%
109	8.139	8.122	8.168	VV	37868	890620	17.43%	0.775%
110	8.187	8.168	8.211	VV	47681	890349	17.43%	0.774%
111	8.235	8.211	8.248	VV	35475	659223	12.90%	0.573%
112	8.257	8.248	8.268	VV	32585	370711	7.26%	0.322%
113	8.293	8.268	8.315	VV	50943	1059255	20.73%	0.921%
114	8.333	8.315	8.365	VV	30992	832492	16.30%	0.724%
115	8.385	8.365	8.402	VV	29992	561281	10.99%	0.488%
116	8.430	8.402	8.454	VV	31647	852547	16.69%	0.741%
117	8.467	8.454	8.477	VV	24795	317748	6.22%	0.276%
118	8.494	8.477	8.510	VV	36615	587737	11.50%	0.511%
119	8.530	8.510	8.549	VV	31552	643564	12.60%	0.560%
120	8.559	8.549	8.572	VV	24874	333678	6.53%	0.290%
121	8.592	8.572	8.615	VV	42159	748194	14.65%	0.651%
122	8.677	8.615	8.703	VV	108547	2244807	43.94%	1.952%
123	8.717	8.703	8.735	VV	24310	427245	8.36%	0.372%
124	8.752	8.735	8.775	VV	24415	477548	9.35%	0.415%
125	8.822	8.775	8.841	VV	29953	906315	17.74%	0.788%
126	8.854	8.841	8.872	VV	21014	363274	7.11%	0.316%
127	8.900	8.872	8.958	VV	30107	1221567	23.91%	1.062%
128	8.983	8.958	9.008	VV	24451	644304	12.61%	0.560%
129	9.044	9.008	9.066	VV	27147	709494	13.89%	0.617%
130	9.090	9.066	9.129	VV	20411	655983	12.84%	0.570%
131	9.159	9.129	9.173	VV	16168	380196	7.44%	0.331%
132	9.195	9.173	9.212	VV	19944	407267	7.97%	0.354%
133	9.220	9.212	9.228	VV	16255	158493	3.10%	0.138%
134	9.259	9.228	9.303	VV	18687	706666	13.83%	0.615%
135	9.331	9.303	9.383	VV	27230	876057	17.15%	0.762%
136	9.411	9.383	9.438	VV	24397	586336	11.48%	0.510%
137	9.495	9.438	9.548	VV	24655	977010	19.12%	0.850%
138	9.573	9.548	9.607	VV	11344	373648	7.31%	0.325%
139	9.617	9.607	9.631	VV	10122	144451	2.83%	0.126%
140	9.653	9.631	9.669	VV	13307	263505	5.16%	0.229%
141	9.693	9.669	9.722	VV	20671	500648	9.80%	0.435%

142	9.738	9.722	9.759	VV	16235	296122	5.80%	0.258%
143	9.796	9.759	9.809	VV	13197	360044	7.05%	0.313%
144	9.815	9.809	9.828	VV	12445	134922	2.64%	0.117%
145	9.841	9.828	9.884	VV	12858	361130	7.07%	0.314%
146	9.909	9.884	9.929	VV	9927	244173	4.78%	0.212%
147	9.950	9.929	9.995	VV	10969	377853	7.40%	0.329%
148	10.013	9.995	10.045	VV	11283	275761	5.40%	0.240%
149	10.057	10.045	10.069	VV	8431	119167	2.33%	0.104%
150	10.087	10.069	10.096	VV	10039	147478	2.89%	0.128%
151	10.125	10.096	10.155	VV	36137	684065	13.39%	0.595%
152	10.169	10.155	10.188	VV	9451	182513	3.57%	0.159%
153	10.196	10.188	10.241	VV	9141	260516	5.10%	0.227%
154	10.271	10.241	10.298	VV	9457	254717	4.99%	0.222%
155	10.314	10.298	10.345	VV	6479	174781	3.42%	0.152%
156	10.372	10.345	10.381	VV	7312	144093	2.82%	0.125%
157	10.406	10.381	10.436	VV	9344	256975	5.03%	0.223%
158	10.474	10.436	10.510	VV	8719	328289	6.43%	0.285%
159	10.548	10.510	10.578	VV	37731	693542	13.58%	0.603%
160	10.589	10.578	10.627	VV	8181	200970	3.93%	0.175%
161	10.656	10.627	10.677	VV	5937	163668	3.20%	0.142%
162	10.689	10.677	10.714	VV	5860	116630	2.28%	0.101%
163	10.736	10.714	10.772	VV	5825	181174	3.55%	0.158%
164	10.806	10.772	10.831	VV	5668	181294	3.55%	0.158%
165	10.867	10.831	10.912	VV	8383	274996	5.38%	0.239%
166	10.926	10.912	10.945	VV	4365	81898	1.60%	0.071%
167	10.952	10.945	11.021	VV	4355	181760	3.56%	0.158%
168	11.027	11.021	11.060	VV	3811	85837	1.68%	0.075%
169	11.108	11.060	11.155	VV	5390	228298	4.47%	0.199%
170	11.176	11.155	11.231	VV	6966	192668	3.77%	0.168%
171	11.267	11.231	11.315	VV	14556	317820	6.22%	0.276%
172	11.329	11.315	11.354	VV	3131	64662	1.27%	0.056%
173	11.373	11.354	11.395	VV	2637	57861	1.13%	0.050%
174	11.445	11.395	11.508	VV	3155	172498	3.38%	0.150%
175	11.543	11.508	11.555	VV	2495	63174	1.24%	0.055%
176	11.565	11.555	11.597	VV	2499	55323	1.08%	0.048%
177	11.630	11.597	11.655	VV	2133	69598	1.36%	0.061%
178	11.664	11.655	11.675	VV	1861	21014	0.41%	0.018%
179	11.686	11.675	11.710	VV	1813	37661	0.74%	0.033%
180	11.731	11.710	11.762	VV	2126	54851	1.07%	0.048%
181	11.779	11.762	11.795	VV	1790	33043	0.65%	0.029%
182	11.824	11.795	11.910	VV	3780	144400	2.83%	0.126%
183	11.973	11.910	12.018	VV	1661	94335	1.85%	0.082%
184	12.050	12.018	12.101	VV	1674	68232	1.34%	0.059%
185	12.124	12.101	12.150	VV	1524	36805	0.72%	0.032%
186	12.164	12.150	12.186	VV	1199	21825	0.43%	0.019%
187	12.205	12.186	12.225	VV	971	20733	0.41%	0.018%
188	12.246	12.225	12.270	VV	1003	24393	0.48%	0.021%
189	12.293	12.270	12.313	VV	1197	25798	0.50%	0.022%
190	12.347	12.313	12.387	VV	1705	47182	0.92%	0.041%
191	12.422	12.387	12.458	VV	2322	50785	0.99%	0.044%
192	12.484	12.458	12.532	VV	4283	72677	1.42%	0.063%
193	12.598	12.532	12.666	VV	760	44793	0.88%	0.039%
194	12.674	12.666	12.695	VV	383	5261	0.10%	0.005%

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195	12.703	12.695	12.718	VV	351	4317	0.08%	0.004%
196	12.767	12.718	12.794	VV	568	20390	0.40%	0.018%
197	12.806	12.794	12.828	VV	416	7451	0.15%	0.006%
198	12.842	12.828	12.871	VV	539	10572	0.21%	0.009%
199	12.929	12.871	13.075	VV	408005	5108646	100.00%	4.443%
200	13.095	13.075	13.181	VV	818	41178	0.81%	0.036%
201	13.204	13.181	13.245	VV	540	15121	0.30%	0.013%
202	13.254	13.245	13.271	VV	382	5493	0.11%	0.005%
203	13.322	13.271	13.347	VV	594	19612	0.38%	0.017%
204	13.361	13.347	13.421	VV	518	17165	0.34%	0.015%
205	13.431	13.421	13.461	VV	249	5001	0.10%	0.004%
206	13.495	13.461	13.503	VV	351	5940	0.12%	0.005%
207	13.534	13.503	13.572	VV	487	13540	0.27%	0.012%
208	13.629	13.572	13.654	VV	1415	26831	0.53%	0.023%
209	13.680	13.654	13.720	VV	3482	47976	0.94%	0.042%
210	13.737	13.720	13.795	VV	234	6997	0.14%	0.006%
211	13.817	13.795	13.838	VV	159	2114	0.04%	0.002%
212	13.915	13.838	13.955	VV	411	12654	0.25%	0.011%
213	13.966	13.955	13.975	VV	170	1785	0.03%	0.002%
214	13.983	13.975	14.016	VV	238	4173	0.08%	0.004%
215	14.024	14.016	14.037	VV	132	1436	0.03%	0.001%
216	14.049	14.037	14.074	VV	162	3175	0.06%	0.003%
217	14.116	14.074	14.212	VV	997	27620	0.54%	0.024%
218	14.242	14.212	14.281	VV	1217	18974	0.37%	0.017%
219	14.311	14.281	14.341	VV	313	8736	0.17%	0.008%
220	14.380	14.341	14.458	VV	418	16719	0.33%	0.015%
221	14.465	14.458	14.474	VV	229	1825	0.04%	0.002%
222	14.492	14.474	14.523	VV	339	6606	0.13%	0.006%
223	14.536	14.523	14.574	VV	222	5558	0.11%	0.005%
224	14.591	14.574	14.669	VV	262	9205	0.18%	0.008%
225	14.694	14.669	14.707	VV	157	2715	0.05%	0.002%
226	14.736	14.707	14.755	VV	1079	15687	0.31%	0.014%
227	14.782	14.755	14.863	VV	3991	63671	1.25%	0.055%
228	14.873	14.863	14.888	VV	434	2355	0.05%	0.002%
229	14.935	14.888	14.975	VV	183	6138	0.12%	0.005%
230	14.986	14.975	15.001	VV	151	1773	0.03%	0.002%
231	15.021	15.001	15.058	VV	178	3020	0.06%	0.003%
232	15.105	15.058	15.130	VV	112	1681	0.03%	0.001%
233	15.141	15.130	15.151	VV	39	323	0.01%	0.000%
234	15.210	15.151	15.238	PV	330	7838	0.15%	0.007%
235	15.301	15.238	15.408	VV	2317	44522	0.87%	0.039%
236	15.426	15.408	15.445	VV	207	2467	0.05%	0.002%
237	15.499	15.445	15.523	VV	226	6040	0.12%	0.005%
238	15.535	15.523	15.578	VV	143	3483	0.07%	0.003%
239	15.615	15.578	15.641	VV	436	11420	0.22%	0.010%
240	15.656	15.641	15.732	VV	320	9388	0.18%	0.008%
241	15.761	15.732	15.775	VV	738	11146	0.22%	0.010%
242	15.801	15.775	15.910	VV	3893	64425	1.26%	0.056%
243	15.941	15.910	15.975	PV	304	6172	0.12%	0.005%
244	15.989	15.975	16.028	VV	194	3943	0.08%	0.003%
245	16.039	16.028	16.044	VV	102	715	0.01%	0.001%
246	16.050	16.044	16.081	VV	66	928	0.02%	0.001%

247	16.089	16.081	16.094	VV	132	788	0.02%	0.001%
248	16.115	16.094	16.148	VV	263	6067	0.12%	0.005%
249	16.161	16.148	16.195	VV	168	3376	0.07%	0.003%
250	16.283	16.195	16.315	VV	2612	40118	0.79%	0.035%
251	16.327	16.315	16.370	VV	244	4311	0.08%	0.004%
252	16.481	16.370	16.525	VV	258	13141	0.26%	0.011%
253	16.534	16.525	16.544	VV	125	1077	0.02%	0.001%
254	16.586	16.544	16.618	VV	255	8389	0.16%	0.007%
255	16.644	16.618	16.688	VV	571	13875	0.27%	0.012%
256	16.715	16.688	16.725	VV	796	11604	0.23%	0.010%
257	16.750	16.725	16.855	VV	3793	70098	1.37%	0.061%
258	16.874	16.855	16.895	VV	209	4898	0.10%	0.004%
259	16.982	16.895	17.005	VV	438	17742	0.35%	0.015%
260	17.038	17.005	17.048	VV	707	12748	0.25%	0.011%
261	17.106	17.048	17.118	VV	688	24292	0.48%	0.021%
262	17.200	17.118	17.241	VV	3408	91190	1.79%	0.079%
263	17.262	17.241	17.275	VV	843	15292	0.30%	0.013%
264	17.302	17.275	17.355	VV	1942	61672	1.21%	0.054%
265	17.376	17.355	17.428	VV	1375	53593	1.05%	0.047%
266	17.481	17.428	17.585	VV	1492	114435	2.24%	0.100%
267	17.635	17.585	17.725	VV	4227	123411	2.42%	0.107%
268	17.767	17.725	17.831	VV	1050	47308	0.93%	0.041%
269	17.841	17.831	17.849	VV	637	6112	0.12%	0.005%
270	17.856	17.849	17.871	VV	597	7493	0.15%	0.007%
271	17.916	17.871	17.981	VV	2986	83299	1.63%	0.072%
272	18.018	17.981	18.031	VV	788	21852	0.43%	0.019%
273	18.057	18.031	18.093	VV	3693	70264	1.38%	0.061%
274	18.137	18.093	18.156	VV	1112	33395	0.65%	0.029%
275	18.179	18.156	18.189	VV	819	15519	0.30%	0.013%
276	18.214	18.189	18.265	VV	878	35351	0.69%	0.031%
277	18.282	18.265	18.295	VV	911	15089	0.30%	0.013%
278	18.312	18.295	18.351	VV	1147	33807	0.66%	0.029%
279	18.361	18.351	18.412	VV	1056	32863	0.64%	0.029%
280	18.490	18.412	18.538	VV	6030	195481	3.83%	0.170%
281	18.555	18.538	18.591	VV	962	27937	0.55%	0.024%
282	18.631	18.591	18.643	VV	1094	31262	0.61%	0.027%
283	18.668	18.643	18.696	VV	1429	33907	0.66%	0.029%
284	18.726	18.696	18.758	VV	1335	44318	0.87%	0.039%
285	18.764	18.758	18.785	VV	1250	20068	0.39%	0.017%
286	18.807	18.785	18.818	VV	1321	25650	0.50%	0.022%
287	18.864	18.818	18.913	VV	3646	115430	2.26%	0.100%
288	19.035	18.913	19.088	VV	10444	327733	6.42%	0.285%
289	19.108	19.088	19.125	VV	2060	43259	0.85%	0.038%
290	19.135	19.125	19.142	VV	1996	20767	0.41%	0.018%
291	19.160	19.142	19.173	VV	2096	37897	0.74%	0.033%
292	19.249	19.173	19.298	VV	4834	211123	4.13%	0.184%
293	19.306	19.298	19.317	VV	2434	27585	0.54%	0.024%
294	19.328	19.317	19.338	VV	2450	30374	0.59%	0.026%
295	19.386	19.338	19.417	VV	2739	120915	2.37%	0.105%
296	19.494	19.417	19.510	VV	3091	158897	3.11%	0.138%
297	19.551	19.510	19.594	VV	16297	393992	7.71%	0.343%
298	19.623	19.594	19.653	VV	4493	132823	2.60%	0.116%
299	19.865	19.653	19.876	VV	4184	504707	9.88%	0.439%

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300	19.890	19.876	19.938	VV	4233	147902	2.90%	0.129%
301	19.990	19.938	20.002	VV	6097	187043	3.66%	0.163%
302	20.042	20.002	20.080	VV	25781	636940	12.47%	0.554%
303	20.137	20.080	20.225	VV	10196	689444	13.50%	0.600%
304	20.254	20.225	20.281	VV	6517	213237	4.17%	0.185%
305	20.340	20.281	20.371	VV	7640	372345	7.29%	0.324%
306	20.442	20.371	20.460	VV	7213	376371	7.37%	0.327%
307	20.513	20.460	20.602	VV	32738	1098199	21.50%	0.955%
308	20.633	20.602	20.661	VV	7159	253129	4.95%	0.220%
309	20.709	20.661	20.760	VV	8062	438592	8.59%	0.381%
310	20.770	20.760	20.836	VV	7087	311720	6.10%	0.271%
311	20.853	20.836	20.951	VV	6864	456790	8.94%	0.397%
312	21.039	20.951	21.106	VV	31744	1207652	23.64%	1.050%
313	21.127	21.106	21.167	VV	6811	237321	4.65%	0.206%
314	21.252	21.167	21.322	VV	6807	613014	12.00%	0.533%
315	21.335	21.322	21.371	VV	6620	192305	3.76%	0.167%
316	21.523	21.371	21.530	VV	9320	698067	13.66%	0.607%
317	21.544	21.530	21.587	VV	9476	317207	6.21%	0.276%
318	21.656	21.587	21.741	VV	29169	1333986	26.11%	1.160%
319	21.781	21.741	21.811	VV	6110	252588	4.94%	0.220%
320	21.852	21.811	21.868	VV	5985	202448	3.96%	0.176%
321	21.872	21.868	21.892	VV	5967	83979	1.64%	0.073%
322	21.911	21.892	21.961	VV	5995	246238	4.82%	0.214%
323	22.019	21.961	22.027	VV	5870	227413	4.45%	0.198%
324	22.079	22.027	22.101	VBA	5981	272590	5.34%	0.237%

Sum of corrected areas: 114991877

Aliphatic EPH 111424.M Sat Nov 16 10:02:11 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-19		SDG No.:	P4839	
Lab Sample ID:	P4839-11		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.3	
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
FD048750.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	1.94		0.36	0.80	mg/kg
Aromatic C12-C16	Aromatic C12-C16	6.88		0.41	1.20	mg/kg
Aromatic C16-C21	Aromatic C16-C21	4.77		1.15	2.00	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.40	U	2.40	3.20	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.3		40 - 140	107%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	53.3		40 - 140	107%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.5		40 - 140	65%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-11	Acq On:	15 Nov 2024 18:18
Client Sample ID:	EX-9-TPH-19	Operator:	YP/AJ
Data file:	FD048750.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	4662681	24.283	200	ug/ml
Aromatic C12-C16	5.806	8.411	16565588	86.073	300	ug/ml
Aromatic C16-C21	8.412	12.674	11084284	59.656	500	ug/ml
Aromatic C21-C36	12.675	18.081	4082019	25.962	800	ug/ml
Aromatic EPH	4.088	18.081	36394572	195.973		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	6243475	32.46		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	9389081	53.33		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	6139965	53.31		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048750.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:18
Operator : YP/AJ
Sample : P4839-11
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-19

Integration File: sample.E
Quant Time: Nov 16 09:52:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	9389081	53.329 ug/ml
Spiked Amount 50.000		Recovery = 106.66%	
6) S 2-Flurobiphenyl (SURR)	8.218	6139965	53.312 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 106.62%	
11) S ortho-Terphenyl (SURR)	11.254	6243475	32.461 ug/ml
Spiked Amount 50.000		Recovery = 64.92%	
Target Compounds			

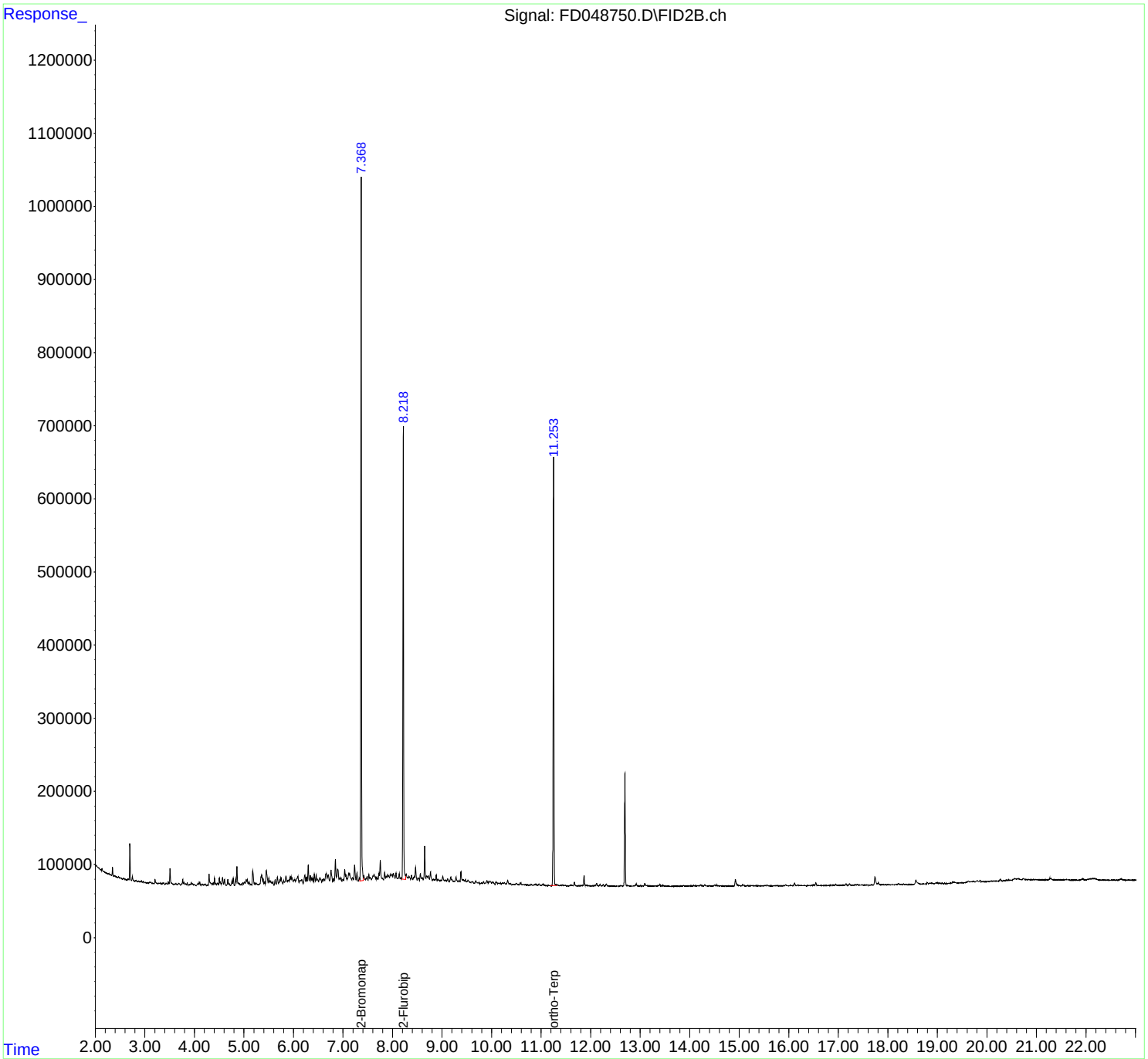
(f)=RT Delta > 1/2 Window (m)=manual int.

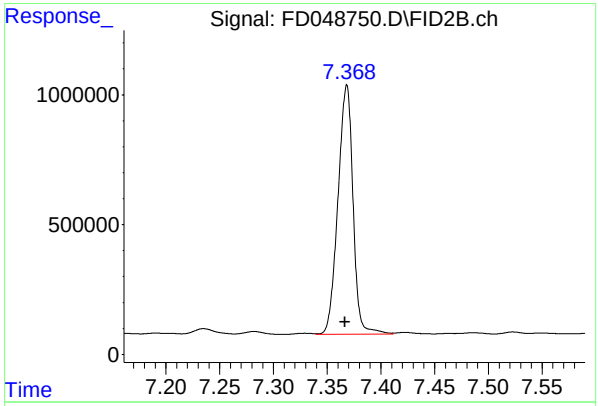
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048750.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:18
Operator : YP/AJ
Sample : P4839-11
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-19

Integration File: sample.E
Quant Time: Nov 16 09:52:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

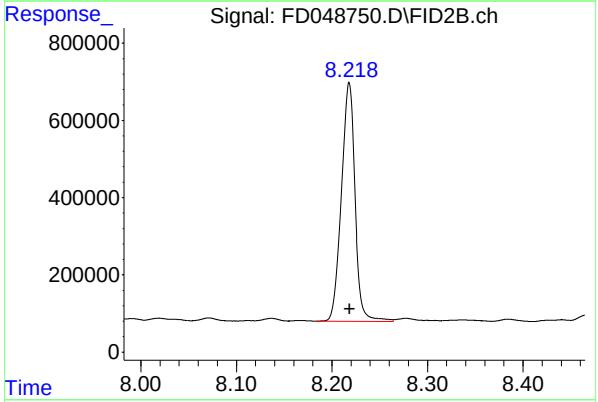




#4 2-Bromonaphthalene (SURR)

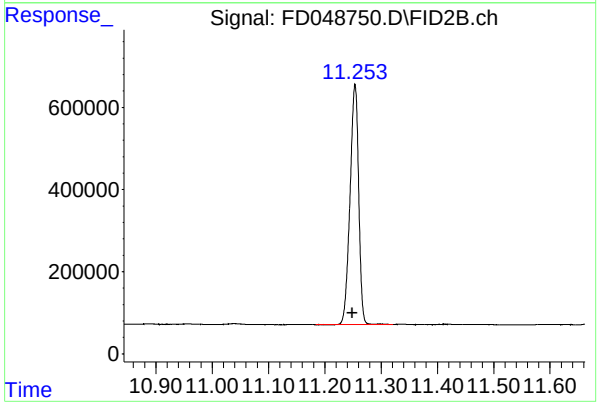
R.T.: 7.368 min
Delta R.T.: 0.001 min
Response: 9389081
Conc: 53.33 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-19



#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 6139965
Conc: 53.31 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: 0.005 min
Response: 6243475
Conc: 32.46 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048750.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:18
Sample : P4839-11
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.065	4.042	4.071	PV	710	4169	0.04%	0.007%
2	4.081	4.071	4.093	PV	1672	10250	0.11%	0.017%
3	4.108	4.093	4.129	PV	4103	39271	0.41%	0.067%
4	4.159	4.129	4.175	PV	1703	20007	0.21%	0.034%
5	4.193	4.175	4.207	VV	800	9614	0.10%	0.016%
6	4.220	4.207	4.245	VV	1483	18742	0.19%	0.032%
7	4.268	4.245	4.279	PV	817	8894	0.09%	0.015%
8	4.296	4.279	4.334	VV	16018	204637	2.12%	0.347%
9	4.343	4.334	4.365	VV	3281	46009	0.48%	0.078%
10	4.378	4.365	4.392	VV	3793	42071	0.43%	0.071%
11	4.407	4.392	4.421	VV	10344	95208	0.98%	0.161%
12	4.428	4.421	4.444	VV	3302	31381	0.32%	0.053%
13	4.461	4.444	4.469	VV	3523	39243	0.41%	0.067%
14	4.474	4.469	4.487	VV	3010	25126	0.26%	0.043%
15	4.502	4.487	4.517	VV	10744	108926	1.13%	0.185%
16	4.524	4.517	4.538	VV	4375	41816	0.43%	0.071%
17	4.567	4.538	4.590	VV	11186	172332	1.78%	0.292%
18	4.608	4.590	4.642	VV	8422	105431	1.09%	0.179%
19	4.674	4.642	4.690	PV	8570	92735	0.96%	0.157%
20	4.701	4.690	4.735	VV	3304	39838	0.41%	0.068%
21	4.758	4.735	4.769	VV	6475	65215	0.67%	0.111%
22	4.784	4.769	4.812	VV	10505	116892	1.21%	0.198%
23	4.833	4.812	4.843	VV	8766	84269	0.87%	0.143%
24	4.858	4.843	4.879	VV	26227	284573	2.94%	0.483%
25	4.888	4.879	4.923	VV	3920	68619	0.71%	0.116%
26	4.942	4.923	4.957	VV	2187	31067	0.32%	0.053%
27	4.977	4.957	4.989	VV	4071	51685	0.53%	0.088%
28	5.009	4.989	5.024	VV	5116	77195	0.80%	0.131%
29	5.045	5.024	5.056	VV	8106	111821	1.16%	0.190%
30	5.067	5.056	5.082	VV	8900	96249	0.99%	0.163%
31	5.105	5.082	5.135	VV	5246	102545	1.06%	0.174%
32	5.146	5.135	5.159	VV	1841	19386	0.20%	0.033%
33	5.177	5.159	5.208	VV	20434	312220	3.23%	0.529%
34	5.219	5.208	5.234	VV	4201	44419	0.46%	0.075%
35	5.248	5.234	5.280	VV	3727	63032	0.65%	0.107%
36	5.296	5.280	5.308	VV	2115	29263	0.30%	0.050%

rteres

37	5.358	5.308	5.379	VV	14896	332262	3.43%	0.563%
38	5.389	5.379	5.405	VV	9548	98821	1.02%	0.168%
39	5.423	5.405	5.434	VV	5844	73245	0.76%	0.124%
40	5.450	5.434	5.490	VV	21084	393752	4.07%	0.668%
41	5.502	5.490	5.515	VV	10430	111960	1.16%	0.190%
42	5.523	5.515	5.533	VV	6368	61126	0.63%	0.104%
43	5.543	5.533	5.557	VV	6477	74134	0.77%	0.126%
44	5.561	5.557	5.570	VV	3947	28015	0.29%	0.048%
45	5.583	5.570	5.607	VV	5474	72259	0.75%	0.123%
46	5.629	5.607	5.652	VV	8022	107985	1.12%	0.183%
47	5.676	5.652	5.697	VV	12350	182903	1.89%	0.310%
48	5.724	5.697	5.733	VV	7965	120319	1.24%	0.204%
49	5.749	5.733	5.785	VV	11649	209791	2.17%	0.356%
50	5.803	5.785	5.817	VV	6982	96378	1.00%	0.163%
51	5.849	5.817	5.873	VV	13278	278247	2.88%	0.472%
52	5.886	5.873	5.896	VV	7638	91738	0.95%	0.156%
53	5.906	5.896	5.916	VV	7835	82700	0.85%	0.140%
54	5.929	5.916	5.938	VV	11656	124313	1.28%	0.211%
55	5.951	5.938	5.963	VV	12916	164159	1.70%	0.278%
56	5.971	5.963	5.995	VV	10330	155264	1.60%	0.263%
57	6.009	5.995	6.016	VV	7808	87328	0.90%	0.148%
58	6.026	6.016	6.042	VV	8183	114436	1.18%	0.194%
59	6.091	6.042	6.112	VV	12773	375062	3.88%	0.636%
60	6.125	6.112	6.133	VV	7207	81283	0.84%	0.138%
61	6.142	6.133	6.157	VV	7189	97875	1.01%	0.166%
62	6.170	6.157	6.196	VV	8715	149742	1.55%	0.254%
63	6.230	6.196	6.249	VV	14378	287447	2.97%	0.487%
64	6.264	6.249	6.278	VV	11840	159820	1.65%	0.271%
65	6.299	6.278	6.319	VV	28842	383261	3.96%	0.650%
66	6.341	6.319	6.357	VV	14093	240707	2.49%	0.408%
67	6.369	6.357	6.380	VV	11316	130833	1.35%	0.222%
68	6.389	6.380	6.405	VV	10233	122349	1.26%	0.207%
69	6.421	6.405	6.442	VV	16294	232183	2.40%	0.394%
70	6.459	6.442	6.473	VV	14814	193659	2.00%	0.328%
71	6.485	6.473	6.506	VV	9379	156355	1.62%	0.265%
72	6.534	6.506	6.547	VV	11397	218513	2.26%	0.371%
73	6.555	6.547	6.571	VV	8876	106018	1.10%	0.180%
74	6.587	6.571	6.599	VV	8507	117501	1.21%	0.199%
75	6.613	6.599	6.632	VV	9681	162960	1.68%	0.276%
76	6.663	6.632	6.681	VV	16221	377786	3.90%	0.641%
77	6.703	6.681	6.730	VV	14627	339879	3.51%	0.576%
78	6.759	6.730	6.793	VV	21723	475902	4.92%	0.807%
79	6.807	6.793	6.824	VV	9781	149490	1.55%	0.253%
80	6.847	6.824	6.865	VV	36219	496579	5.13%	0.842%
81	6.892	6.865	6.920	VV	22793	544656	5.63%	0.924%
82	6.940	6.920	6.953	VV	11152	198165	2.05%	0.336%
83	6.962	6.953	6.979	VV	10590	135366	1.40%	0.230%
84	6.997	6.979	7.012	VV	8920	154121	1.59%	0.261%
85	7.036	7.012	7.050	VV	22774	335106	3.46%	0.568%
86	7.057	7.050	7.086	VV	14170	248235	2.57%	0.421%
87	7.114	7.086	7.124	VV	17271	293376	3.03%	0.497%
88	7.134	7.124	7.177	VV	16941	395876	4.09%	0.671%
89	7.191	7.177	7.215	VV	11358	228488	2.36%	0.387%

90	7.235	7.215	7.264	VV	28544	490036	5.06%	0.831%
91	7.282	7.264	7.312	VV	17686	316408	3.27%	0.537%
92	7.330	7.312	7.341	VV	10771	158696	1.64%	0.269%
93	7.368	7.341	7.411	VV	970694	9675083	100.00%	16.406%
94	7.422	7.411	7.450	VV	14082	262124	2.71%	0.444%
95	7.464	7.450	7.469	VV	10033	105979	1.10%	0.180%
96	7.486	7.469	7.505	VV	12653	234290	2.42%	0.397%
97	7.523	7.505	7.538	VV	15782	235558	2.43%	0.399%
98	7.550	7.538	7.579	VV	11899	251626	2.60%	0.427%
99	7.605	7.579	7.612	VV	13281	230588	2.38%	0.391%
100	7.628	7.612	7.667	VV	15835	429274	4.44%	0.728%
101	7.680	7.667	7.692	VV	12517	159697	1.65%	0.271%
102	7.699	7.692	7.708	VV	9862	90307	0.93%	0.153%
103	7.728	7.708	7.737	VV	17376	230326	2.38%	0.391%
104	7.754	7.737	7.785	VV	35154	586756	6.06%	0.995%
105	7.795	7.785	7.816	VV	10912	183068	1.89%	0.310%
106	7.843	7.816	7.860	VV	18668	335607	3.47%	0.569%
107	7.873	7.860	7.888	VV	13497	206075	2.13%	0.349%
108	7.903	7.888	7.914	VV	15436	221758	2.29%	0.376%
109	7.919	7.914	7.940	VV	13921	197098	2.04%	0.334%
110	7.955	7.940	7.973	VV	16088	283472	2.93%	0.481%
111	7.991	7.973	8.004	VV	16162	268414	2.77%	0.455%
112	8.019	8.004	8.053	VV	17283	414289	4.28%	0.703%
113	8.071	8.053	8.101	VV	17959	376243	3.89%	0.638%
114	8.112	8.101	8.120	VV	10833	115826	1.20%	0.196%
115	8.136	8.120	8.154	VV	16663	276134	2.85%	0.468%
116	8.166	8.154	8.183	VV	11140	179848	1.86%	0.305%
117	8.218	8.183	8.265	VV	627125	6595571	68.17%	11.184%
118	8.278	8.265	8.314	VV	16668	386083	3.99%	0.655%
119	8.337	8.314	8.368	VV	12604	367882	3.80%	0.624%
120	8.384	8.368	8.409	VV	14607	285348	2.95%	0.484%
121	8.441	8.409	8.450	VV	13246	281137	2.91%	0.477%
122	8.466	8.450	8.498	VV	25403	445785	4.61%	0.756%
123	8.513	8.498	8.525	VV	11110	165058	1.71%	0.280%
124	8.530	8.525	8.544	VV	10318	104896	1.08%	0.178%
125	8.563	8.544	8.585	VV	16825	307955	3.18%	0.522%
126	8.603	8.585	8.619	VV	10931	206483	2.13%	0.350%
127	8.651	8.619	8.672	VV	54904	743828	7.69%	1.261%
128	8.687	8.672	8.708	VV	13139	264800	2.74%	0.449%
129	8.724	8.708	8.743	VV	14053	257559	2.66%	0.437%
130	8.768	8.743	8.810	VV	19270	486396	5.03%	0.825%
131	8.833	8.810	8.851	VV	9340	210724	2.18%	0.357%
132	8.883	8.851	8.901	VV	15223	310060	3.20%	0.526%
133	8.915	8.901	8.928	VV	9712	137455	1.42%	0.233%
134	8.937	8.928	8.952	VV	8302	111750	1.16%	0.189%
135	8.961	8.952	8.979	VV	7927	122213	1.26%	0.207%
136	9.016	8.979	9.036	VV	13127	329779	3.41%	0.559%
137	9.040	9.036	9.059	VV	8079	102840	1.06%	0.174%
138	9.071	9.059	9.094	VV	8518	159416	1.65%	0.270%
139	9.112	9.094	9.142	VV	9548	225687	2.33%	0.383%
140	9.177	9.142	9.192	VV	12474	262946	2.72%	0.446%
141	9.202	9.192	9.224	VV	8770	146396	1.51%	0.248%

142	9.228	9.224	9.239	VV	6402	56771	0.59%	0.096%
143	9.255	9.239	9.262	VV	6808	89689	0.93%	0.152%
144	9.283	9.262	9.320	VV	12635	293754	3.04%	0.498%
145	9.342	9.320	9.363	VV	7638	168370	1.74%	0.286%
146	9.382	9.363	9.410	VV	19725	339232	3.51%	0.575%
147	9.427	9.410	9.449	VV	8806	187118	1.93%	0.317%
148	9.472	9.449	9.492	VV	9216	192625	1.99%	0.327%
149	9.524	9.492	9.561	VV	8270	272236	2.81%	0.462%
150	9.569	9.561	9.582	VV	5298	61685	0.64%	0.105%
151	9.609	9.582	9.643	VV	5953	194472	2.01%	0.330%
152	9.685	9.643	9.713	VV	6414	212908	2.20%	0.361%
153	9.721	9.713	9.734	VV	4533	53557	0.55%	0.091%
154	9.745	9.734	9.766	VV	4458	76485	0.79%	0.130%
155	9.798	9.766	9.817	VV	4211	116444	1.20%	0.197%
156	9.839	9.817	9.861	VV	6475	127412	1.32%	0.216%
157	9.908	9.861	9.930	VV	7668	214892	2.22%	0.364%
158	9.943	9.930	9.954	VV	5728	74375	0.77%	0.126%
159	9.972	9.954	10.000	VV	6737	162186	1.68%	0.275%
160	10.023	10.000	10.068	VV	5913	176898	1.83%	0.300%
161	10.091	10.068	10.127	VV	5759	153479	1.59%	0.260%
162	10.143	10.127	10.167	VV	4348	93841	0.97%	0.159%
163	10.182	10.167	10.198	VV	4084	68025	0.70%	0.115%
164	10.223	10.198	10.247	VV	4367	113129	1.17%	0.192%
165	10.259	10.247	10.292	VV	5029	102976	1.06%	0.175%
166	10.328	10.292	10.360	VV	7883	192715	1.99%	0.327%
167	10.382	10.360	10.404	VV	3814	80855	0.84%	0.137%
168	10.448	10.404	10.462	VV	2728	78770	0.81%	0.134%
169	10.472	10.462	10.483	VV	2472	30498	0.32%	0.052%
170	10.502	10.483	10.524	VV	4077	76387	0.79%	0.130%
171	10.528	10.524	10.543	VV	2633	25818	0.27%	0.044%
172	10.554	10.543	10.562	VV	2198	24037	0.25%	0.041%
173	10.581	10.562	10.615	VV	4604	98135	1.01%	0.166%
174	10.626	10.615	10.634	VV	2035	21895	0.23%	0.037%
175	10.648	10.634	10.698	VV	2422	76931	0.80%	0.130%
176	10.711	10.698	10.759	VV	1973	59200	0.61%	0.100%
177	10.763	10.759	10.780	VV	1484	17112	0.18%	0.029%
178	10.807	10.780	10.826	VV	2243	48485	0.50%	0.082%
179	10.887	10.826	10.922	VV	2919	107627	1.11%	0.183%
180	10.933	10.922	10.939	VV	1625	15502	0.16%	0.026%
181	10.954	10.939	10.992	VV	2870	61700	0.64%	0.105%
182	10.997	10.992	11.010	VV	1325	13078	0.14%	0.022%
183	11.039	11.010	11.093	VV	3243	85467	0.88%	0.145%
184	11.105	11.093	11.126	VV	1061	16717	0.17%	0.028%
185	11.147	11.126	11.205	VV	1375	42582	0.44%	0.072%
186	11.213	11.205	11.215	VV	636	3532	0.04%	0.006%
187	11.254	11.215	11.288	VV	586330	6276942	64.88%	10.644%
188	11.297	11.288	11.322	VV	2421	37923	0.39%	0.064%
189	11.337	11.322	11.362	VV	1978	33711	0.35%	0.057%
190	11.369	11.362	11.392	VV	993	16082	0.17%	0.027%
191	11.421	11.392	11.436	VV	1692	33529	0.35%	0.057%
192	11.445	11.436	11.464	VV	1416	18809	0.19%	0.032%
193	11.478	11.464	11.518	VV	1325	28626	0.30%	0.049%
194	11.587	11.518	11.595	VV	1353	30225	0.31%	0.051%

195	11.605	11.595	11.622	VV	1515	18971	0.20%	0.032%
196	11.626	11.622	11.649	VV	999	12860	0.13%	0.022%
197	11.673	11.649	11.699	VV	5820	77760	0.80%	0.132%
198	11.707	11.699	11.729	VV	928	12079	0.12%	0.020%
199	11.736	11.729	11.740	VV	530	3252	0.03%	0.006%
200	11.747	11.740	11.760	VV	663	6330	0.07%	0.011%
201	11.810	11.760	11.815	VV	985	22570	0.23%	0.038%
202	11.835	11.815	11.848	VV	1247	19670	0.20%	0.033%
203	11.868	11.848	11.938	VV	14252	199344	2.06%	0.338%
204	11.954	11.938	11.969	VV	1011	16273	0.17%	0.028%
205	11.974	11.969	12.006	VV	799	13840	0.14%	0.023%
206	12.021	12.006	12.034	VV	758	10868	0.11%	0.018%
207	12.042	12.034	12.059	VV	751	9885	0.10%	0.017%
208	12.063	12.059	12.070	VV	726	4347	0.04%	0.007%
209	12.091	12.070	12.100	VV	1347	18323	0.19%	0.031%
210	12.122	12.100	12.149	VV	4051	59865	0.62%	0.102%
211	12.153	12.149	12.168	VV	783	7139	0.07%	0.012%
212	12.192	12.168	12.213	VV	2762	42357	0.44%	0.072%
213	12.228	12.213	12.237	VV	854	10798	0.11%	0.018%
214	12.255	12.237	12.287	VV	2444	35899	0.37%	0.061%
215	12.317	12.287	12.378	VV	3220	63625	0.66%	0.108%
216	12.387	12.378	12.409	VV	433	5372	0.06%	0.009%
217	12.421	12.409	12.459	VV	454	8960	0.09%	0.015%
218	12.462	12.459	12.489	VV	312	3776	0.04%	0.006%
219	12.492	12.489	12.511	VV	408	3764	0.04%	0.006%
220	12.523	12.511	12.538	VV	453	4722	0.05%	0.008%
221	12.550	12.538	12.570	VV	352	4322	0.04%	0.007%
222	12.608	12.570	12.642	VV	1139	23060	0.24%	0.039%
223	12.647	12.642	12.654	VV	376	2583	0.03%	0.004%
224	12.693	12.654	12.724	VV	155265	1773957	18.34%	3.008%
225	12.738	12.724	12.769	VV	1179	23467	0.24%	0.040%
226	12.774	12.769	12.819	VV	802	15291	0.16%	0.026%
227	12.836	12.819	12.851	VV	411	6364	0.07%	0.011%
228	12.876	12.851	12.893	VV	1141	19607	0.20%	0.033%
229	12.918	12.893	12.975	VV	3655	71632	0.74%	0.121%
230	12.985	12.975	12.997	VV	633	7031	0.07%	0.012%
231	13.003	12.997	13.013	VV	590	5908	0.06%	0.010%
232	13.018	13.013	13.037	VV	839	8367	0.09%	0.014%
233	13.043	13.037	13.049	VV	645	4293	0.04%	0.007%
234	13.052	13.049	13.058	VV	650	3162	0.03%	0.005%
235	13.093	13.058	13.139	VV	4119	81523	0.84%	0.138%
236	13.142	13.139	13.172	VV	1082	14468	0.15%	0.025%
237	13.177	13.172	13.181	VV	501	2420	0.03%	0.004%
238	13.189	13.181	13.205	VV	565	6775	0.07%	0.011%
239	13.214	13.205	13.229	VV	638	7786	0.08%	0.013%
240	13.234	13.229	13.238	VV	544	2625	0.03%	0.004%
241	13.244	13.238	13.250	VV	562	3567	0.04%	0.006%
242	13.267	13.250	13.280	VV	730	9540	0.10%	0.016%
243	13.293	13.280	13.297	VV	729	6766	0.07%	0.011%
244	13.301	13.297	13.304	VV	737	2814	0.03%	0.005%
245	13.310	13.304	13.337	VV	685	12166	0.13%	0.021%
246	13.349	13.337	13.359	VV	844	9344	0.10%	0.016%

247	13.365	13.359	13.373	VV	834	6227	0.06%	0.011%
248	13.399	13.373	13.424	VV	2834	46192	0.48%	0.078%
249	13.447	13.424	13.495	VV	1886	39437	0.41%	0.067%
250	13.510	13.495	13.531	VV	651	11116	0.11%	0.019%
251	13.540	13.531	13.553	VV	535	6474	0.07%	0.011%
252	13.557	13.553	13.570	VV	601	4092	0.04%	0.007%
253	13.580	13.570	13.617	VV	584	7491	0.08%	0.013%
254	13.632	13.617	13.637	PV	386	2968	0.03%	0.005%
255	13.642	13.637	13.656	VV	398	3565	0.04%	0.006%
256	13.661	13.656	13.677	VV	359	3530	0.04%	0.006%
257	13.682	13.677	13.696	VV	366	2805	0.03%	0.005%
258	13.707	13.696	13.718	VV	397	3784	0.04%	0.006%
259	13.738	13.718	13.751	VV	496	6454	0.07%	0.011%
260	13.758	13.751	13.772	VV	443	4022	0.04%	0.007%
261	13.781	13.772	13.800	VV	440	5967	0.06%	0.010%
262	13.804	13.800	13.827	VV	596	7769	0.08%	0.013%
263	13.839	13.827	13.844	VV	653	5586	0.06%	0.009%
264	13.879	13.844	13.914	VV	1306	31957	0.33%	0.054%
265	13.924	13.914	13.938	VV	725	9335	0.10%	0.016%
266	13.942	13.938	13.958	VV	604	6609	0.07%	0.011%
267	13.969	13.958	13.975	VV	609	5481	0.06%	0.009%
268	13.980	13.975	13.986	VV	579	3332	0.03%	0.006%
269	14.002	13.986	14.020	VV	781	11367	0.12%	0.019%
270	14.037	14.020	14.054	VV	789	11852	0.12%	0.020%
271	14.082	14.054	14.120	VV	1325	35010	0.36%	0.059%
272	14.127	14.120	14.164	VV	973	20816	0.22%	0.035%
273	14.172	14.164	14.177	VV	802	5778	0.06%	0.010%
274	14.222	14.177	14.267	VV	2237	55820	0.58%	0.095%
275	14.301	14.267	14.345	VV	2396	49002	0.51%	0.083%
276	14.351	14.345	14.370	VV	647	8232	0.09%	0.014%
277	14.388	14.370	14.396	VV	794	9974	0.10%	0.017%
278	14.404	14.396	14.419	VV	735	8017	0.08%	0.014%
279	14.424	14.419	14.450	VV	393	6595	0.07%	0.011%
280	14.456	14.450	14.460	VV	378	1998	0.02%	0.003%
281	14.472	14.460	14.482	VV	395	5062	0.05%	0.009%
282	14.501	14.482	14.524	VV	2035	32622	0.34%	0.055%
283	14.542	14.524	14.574	VV	2006	36028	0.37%	0.061%
284	14.582	14.574	14.612	VV	987	16857	0.17%	0.029%
285	14.633	14.612	14.657	VV	1012	19261	0.20%	0.033%
286	14.666	14.657	14.678	VV	455	5059	0.05%	0.009%
287	14.684	14.678	14.700	VV	410	2355	0.02%	0.004%
288	14.715	14.700	14.742	PV	617	10887	0.11%	0.018%
289	14.753	14.742	14.771	VV	379	5461	0.06%	0.009%
290	14.801	14.771	14.806	VV	507	6827	0.07%	0.012%
291	14.808	14.806	14.817	VV	405	2052	0.02%	0.003%
292	14.827	14.817	14.833	VV	325	2621	0.03%	0.004%
293	14.880	14.833	14.892	VV	575	13984	0.14%	0.024%
294	14.921	14.892	15.042	VV	9283	223446	2.31%	0.379%
295	15.071	15.042	15.100	VV	2363	42395	0.44%	0.072%
296	15.111	15.100	15.133	VV	589	8689	0.09%	0.015%
297	15.181	15.133	15.191	VV	541	15731	0.16%	0.027%
298	15.215	15.191	15.232	VV	680	13716	0.14%	0.023%
299	15.252	15.232	15.298	VV	827	22605	0.23%	0.038%

300	15.336	15.298	15.352	VV	464	12911	0.13%	0.022%
301	15.381	15.352	15.396	VV	555	11892	0.12%	0.020%
302	15.411	15.396	15.420	VV	500	6366	0.07%	0.011%
303	15.442	15.420	15.476	VV	658	15985	0.17%	0.027%
304	15.522	15.476	15.537	VV	844	19323	0.20%	0.033%
305	15.558	15.537	15.597	VV	1572	32081	0.33%	0.054%
306	15.605	15.597	15.630	VV	611	8556	0.09%	0.015%
307	15.641	15.630	15.660	VV	482	4799	0.05%	0.008%
308	15.707	15.660	15.719	PV	319	6764	0.07%	0.011%
309	15.728	15.719	15.737	VV	257	2660	0.03%	0.005%
310	15.758	15.737	15.780	VV	358	5809	0.06%	0.010%
311	15.798	15.780	15.814	VV	369	3996	0.04%	0.007%
312	15.849	15.814	15.898	VV	311	9614	0.10%	0.016%
313	15.933	15.898	16.002	VV	1457	40462	0.42%	0.069%
314	16.039	16.002	16.076	VV	877	20027	0.21%	0.034%
315	16.116	16.076	16.150	VV	3982	62212	0.64%	0.105%
316	16.178	16.150	16.224	VV	1309	31698	0.33%	0.054%
317	16.227	16.224	16.258	VV	491	6888	0.07%	0.012%
318	16.268	16.258	16.290	VV	414	5822	0.06%	0.010%
319	16.297	16.290	16.317	VV	363	4705	0.05%	0.008%
320	16.326	16.317	16.367	VV	339	6146	0.06%	0.010%
321	16.415	16.367	16.437	PV	606	15990	0.17%	0.027%
322	16.472	16.437	16.485	VV	993	15697	0.16%	0.027%
323	16.504	16.485	16.521	VV	1516	21558	0.22%	0.037%
324	16.546	16.521	16.602	VV	4077	64534	0.67%	0.109%
325	16.612	16.602	16.632	VV	289	3477	0.04%	0.006%
326	16.657	16.632	16.693	VV	276	6647	0.07%	0.011%
327	16.709	16.693	16.722	PV	303	3505	0.04%	0.006%
328	16.747	16.722	16.758	VV	265	4166	0.04%	0.007%
329	16.799	16.758	16.844	VV	539	15558	0.16%	0.026%
330	16.869	16.844	16.900	VV	963	19994	0.21%	0.034%
331	16.909	16.900	16.922	VV	563	5925	0.06%	0.010%
332	16.948	16.922	16.981	VV	1497	27121	0.28%	0.046%
333	16.994	16.981	17.002	VV	369	2929	0.03%	0.005%
334	17.072	17.002	17.105	VV	512	20169	0.21%	0.034%
335	17.157	17.105	17.199	VV	2424	45117	0.47%	0.077%
336	17.227	17.199	17.270	VV	2424	39461	0.41%	0.067%
337	17.323	17.270	17.333	VV	502	11655	0.12%	0.020%
338	17.353	17.333	17.364	VV	787	11687	0.12%	0.020%
339	17.385	17.364	17.415	VV	1602	27220	0.28%	0.046%
340	17.424	17.415	17.445	VV	408	5455	0.06%	0.009%
341	17.473	17.445	17.510	VV	969	18770	0.19%	0.032%
342	17.527	17.510	17.585	VV	446	12366	0.13%	0.021%
343	17.607	17.585	17.614	VV	217	2655	0.03%	0.005%
344	17.636	17.614	17.647	VV	214	2733	0.03%	0.005%
345	17.679	17.647	17.709	PV	781	14281	0.15%	0.024%
346	17.741	17.709	17.789	VV	11186	221635	2.29%	0.376%
347	17.808	17.789	17.860	VV	2800	54792	0.57%	0.093%
348	17.880	17.860	17.892	VV	751	9713	0.10%	0.016%
349	17.902	17.892	17.934	VV	525	7838	0.08%	0.013%
350	17.941	17.934	17.947	VV	227	1302	0.01%	0.002%
351	17.974	17.947	17.997	VV	299	6958	0.07%	0.012%

					rteres			
352	18.018	17.997	18.032	VV	376	5536	0.06%	0.009%
353	18.040	18.032	18.064	VV	357	3674	0.04%	0.006%
354	18.088	18.064	18.110	VV	402	6113	0.06%	0.010%
355	18.117	18.110	18.129	VV	194	1684	0.02%	0.003%
356	18.176	18.129	18.190	PV	360	7327	0.08%	0.012%

Sum of corrected areas: 58971714

Aromatic EPH 111424.M Sat Nov 16 10:29:56 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-19		SDG No.:	P4839	
Lab Sample ID:	P4839-11		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.3	
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
FC067819.D	5	11/14/24	11/19/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	11.4		2.28	5.99	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	24.8		1.44	3.99	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	3.47	J	1.80	5.99	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	4.79	U	4.79	7.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.2	J	10.8	12.0	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	6.20		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-11DL	Acq On:	19 Nov 2024 10:40
Client Sample ID:	P4839-11DL	Operator:	YP/AJ
Data file:	FC067819.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	4748049	28.639	300	ug/ml
Aliphatic C12-C16	6.449	9.838	10577692	62.081	200	ug/ml
Aliphatic C16-C21	9.839	13.196	1474988	8.696	300	ug/ml
Aliphatic C21-C28	13.197	16.850	221108	1.406	400	ug/ml
Aliphatic C28-C40	16.851	21.691	3082172	25.449	600	ug/ml
Aliphatic EPH	3.172	21.691	20104009	126.271		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.938	12.938	900112	6.2		ug/ml
Aliphatic C9-C28	3.172	16.850	17021837	100.822	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067819.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:40
Operator : YP/AJ
Sample : P4839-11DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-19DL

Integration File: sample.E
Quant Time: Nov 19 12:17:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.938	900112	6.201 ug/ml
Spiked Amount 50.000		Recovery = 12.40%	
Target Compounds			

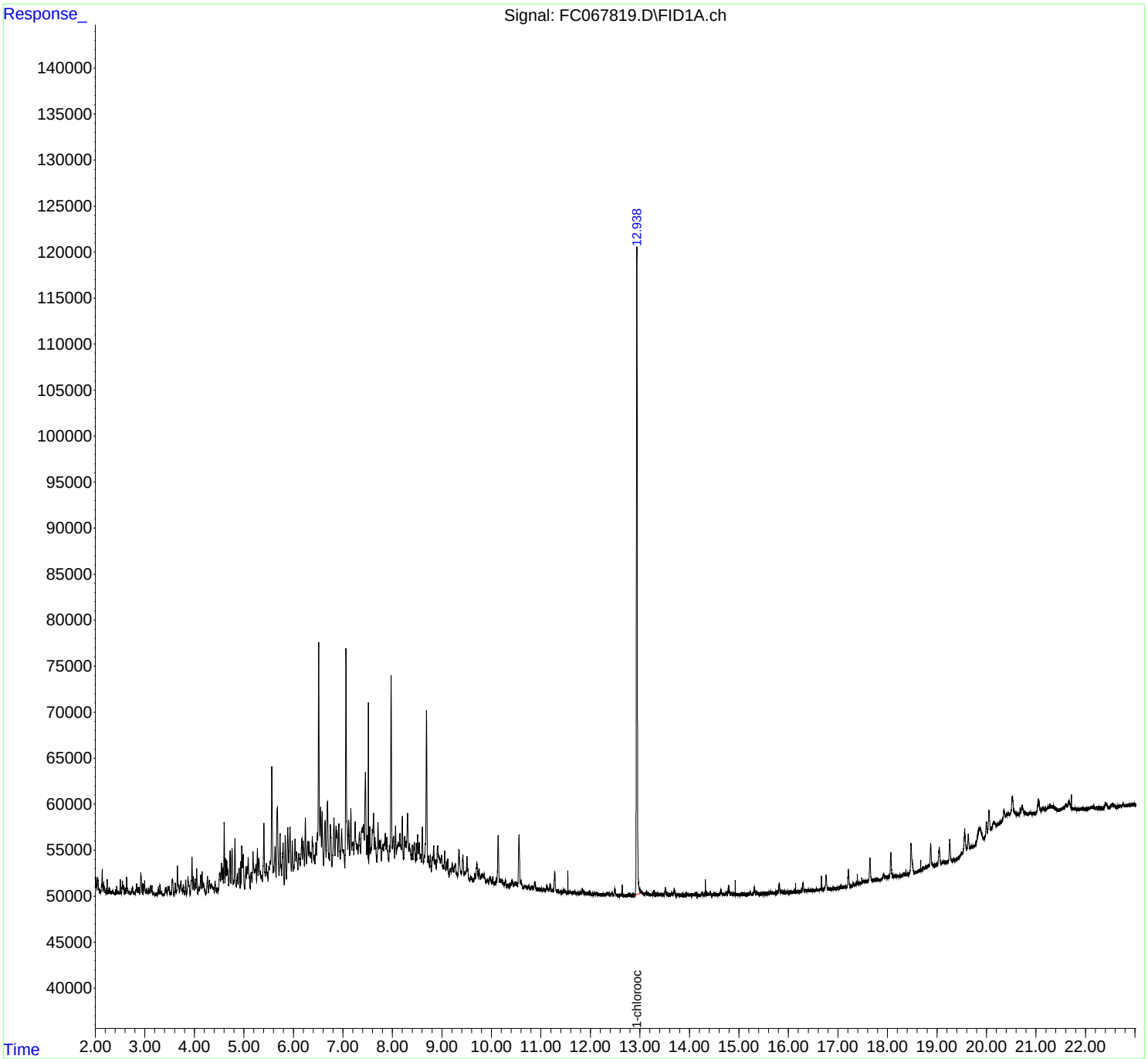
(f)=RT Delta > 1/2 Window (m)=manual int.

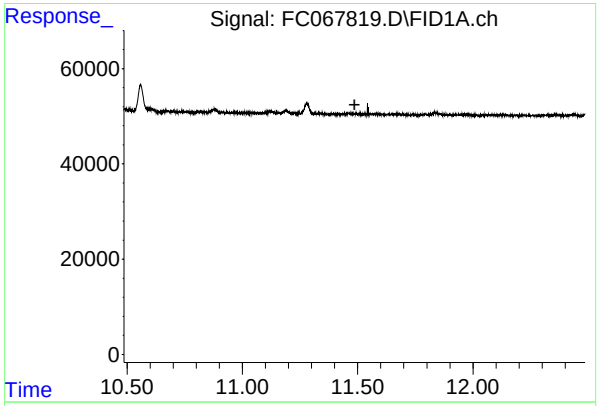
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067819.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:40
Operator : YP/AJ
Sample : P4839-11DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-19DL

Integration File: sample.E
Quant Time: Nov 19 12:17:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

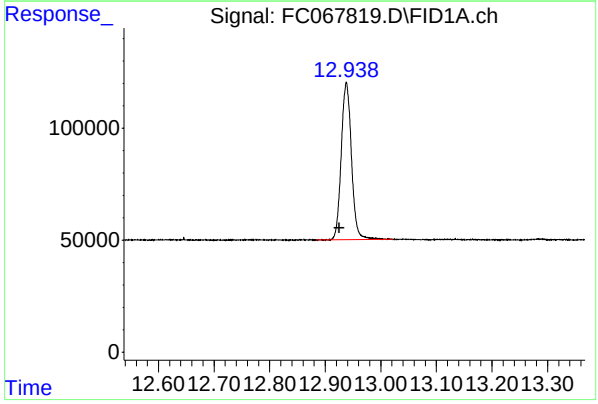




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-19DL



#12 1-chlorooctadecane (SURR)

R.T.: 12.938 min
Delta R.T.: 0.012 min
Response: 900112
Conc: 6.20 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067819.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:40
Sample : P4839-11DL 5X
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.273	3.224	3.291	BV	605	8093	0.88%	0.038%
2	3.306	3.291	3.373	VV	961	13539	1.47%	0.064%
3	3.383	3.373	3.392	PV	66	498	0.05%	0.002%
4	3.412	3.392	3.424	VV	760	7430	0.81%	0.035%
5	3.434	3.424	3.449	VV	743	6785	0.74%	0.032%
6	3.466	3.449	3.475	VV	847	8297	0.90%	0.039%
7	3.487	3.475	3.516	VV	922	12592	1.37%	0.060%
8	3.554	3.516	3.587	VV	1684	30203	3.28%	0.143%
9	3.613	3.587	3.636	VV	1233	17348	1.88%	0.082%
10	3.659	3.636	3.700	VV	3134	47600	5.17%	0.226%
11	3.729	3.700	3.763	VV	1516	31841	3.46%	0.151%
12	3.777	3.763	3.808	VV	1063	13502	1.47%	0.064%
13	3.825	3.808	3.843	VV	1587	14829	1.61%	0.070%
14	3.872	3.843	3.916	VV	1862	40253	4.37%	0.191%
15	3.952	3.916	3.968	VV	4055	52368	5.69%	0.248%
16	3.981	3.968	4.001	VV	1935	23166	2.52%	0.110%
17	4.014	4.001	4.029	VV	1709	19557	2.12%	0.093%
18	4.047	4.029	4.068	VV	2918	31902	3.46%	0.151%
19	4.089	4.068	4.102	VV	827	11324	1.23%	0.054%
20	4.129	4.102	4.142	VV	2228	31359	3.40%	0.149%
21	4.157	4.142	4.181	VV	2490	35129	3.81%	0.167%
22	4.191	4.181	4.228	VV	1170	19184	2.08%	0.091%
23	4.265	4.228	4.283	VV	2090	29903	3.25%	0.142%
24	4.304	4.283	4.331	VV	1568	29034	3.15%	0.138%
25	4.340	4.331	4.374	VV	1136	25268	2.74%	0.120%
26	4.387	4.374	4.401	VV	844	11027	1.20%	0.052%
27	4.418	4.401	4.443	VV	1531	22071	2.40%	0.105%
28	4.466	4.443	4.478	VV	660	11973	1.30%	0.057%
29	4.512	4.478	4.531	VV	2448	49619	5.39%	0.235%
30	4.548	4.531	4.562	VV	3418	45679	4.96%	0.217%
31	4.573	4.562	4.584	VV	2848	31835	3.46%	0.151%
32	4.603	4.584	4.619	VV	7764	83465	9.06%	0.396%
33	4.631	4.619	4.643	VV	3934	41710	4.53%	0.198%
34	4.657	4.643	4.693	VV	3780	76068	8.26%	0.361%
35	4.722	4.693	4.739	VV	4824	73200	7.95%	0.347%
36	4.761	4.739	4.784	VV	5052	82753	8.98%	0.393%

37	4.820	4.784	4.848	VV	6186	94369	10.25%	0.448%
38	4.869	4.848	4.884	VV	2387	36289	3.94%	0.172%
39	4.902	4.884	4.925	VV	2933	51202	5.56%	0.243%
40	4.958	4.925	4.971	VV	5308	76616	8.32%	0.364%
41	4.986	4.971	5.014	VV	4388	69300	7.52%	0.329%
42	5.040	5.014	5.053	VV	3044	46993	5.10%	0.223%
43	5.065	5.053	5.074	VV	3069	32522	3.53%	0.154%
44	5.088	5.074	5.127	VV	4087	78834	8.56%	0.374%
45	5.144	5.127	5.165	VV	2369	41922	4.55%	0.199%
46	5.186	5.165	5.213	VV	4751	89191	9.68%	0.423%
47	5.242	5.213	5.257	VV	3342	69495	7.55%	0.330%
48	5.274	5.257	5.288	VV	5052	63358	6.88%	0.301%
49	5.304	5.288	5.350	VV	4004	104260	11.32%	0.495%
50	5.362	5.350	5.374	VV	2149	28061	3.05%	0.133%
51	5.405	5.374	5.432	VV	7865	136560	14.83%	0.648%
52	5.454	5.432	5.489	VV	3443	86415	9.38%	0.410%
53	5.506	5.489	5.513	VV	3134	38776	4.21%	0.184%
54	5.565	5.513	5.605	VV	13960	297316	32.28%	1.411%
55	5.630	5.605	5.650	VV	5252	99774	10.83%	0.473%
56	5.673	5.650	5.711	VV	9332	207110	22.49%	0.983%
57	5.731	5.711	5.762	VV	6700	119907	13.02%	0.569%
58	5.791	5.762	5.814	VV	5699	111127	12.07%	0.527%
59	5.837	5.814	5.859	VV	6500	93864	10.19%	0.445%
60	5.887	5.859	5.907	VV	7319	134565	14.61%	0.638%
61	5.932	5.907	5.959	VV	7379	156492	16.99%	0.742%
62	5.979	5.959	5.998	VV	5822	91411	9.93%	0.434%
63	6.034	5.998	6.051	VV	6096	133013	14.44%	0.631%
64	6.065	6.051	6.091	VV	4636	94026	10.21%	0.446%
65	6.113	6.091	6.134	VV	4477	101036	10.97%	0.479%
66	6.170	6.134	6.184	VV	6216	139449	15.14%	0.662%
67	6.199	6.184	6.223	VV	5860	111658	12.12%	0.530%
68	6.243	6.223	6.266	VV	8330	141147	15.33%	0.670%
69	6.291	6.266	6.306	VV	5842	116600	12.66%	0.553%
70	6.319	6.306	6.345	VV	5775	114000	12.38%	0.541%
71	6.356	6.345	6.368	VV	4627	58413	6.34%	0.277%
72	6.384	6.368	6.411	VV	6317	132566	14.39%	0.629%
73	6.421	6.411	6.436	VV	4319	60008	6.52%	0.285%
74	6.455	6.436	6.467	VV	5771	87505	9.50%	0.415%
75	6.512	6.467	6.536	VV	27309	454810	49.38%	2.158%
76	6.551	6.536	6.569	VV	9550	151462	16.45%	0.719%
77	6.583	6.569	6.611	VV	9041	148771	16.15%	0.706%
78	6.640	6.611	6.661	VV	8124	176446	19.16%	0.837%
79	6.688	6.661	6.713	VV	10089	221165	24.01%	1.049%
80	6.720	6.713	6.729	VV	4564	43082	4.68%	0.204%
81	6.748	6.729	6.779	VV	7682	165768	18.00%	0.786%
82	6.820	6.779	6.840	VV	8370	202934	22.03%	0.963%
83	6.863	6.840	6.900	VV	7490	218455	23.72%	1.036%
84	6.919	6.900	6.948	VV	7768	164637	17.88%	0.781%
85	6.976	6.948	7.011	VV	7294	204088	22.16%	0.968%
86	7.016	7.011	7.038	VV	4920	69058	7.50%	0.328%
87	7.063	7.038	7.101	VV	26891	422169	45.84%	2.003%
88	7.118	7.101	7.138	VV	8232	141120	15.32%	0.670%
89	7.162	7.138	7.180	VV	9363	165081	17.92%	0.783%

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90	7.192	7.180	7.197	VV	5699	56650	6.15%	0.269%
91	7.206	7.197	7.222	VV	5781	80027	8.69%	0.380%
92	7.248	7.222	7.280	VV	7944	212499	23.07%	1.008%
93	7.291	7.280	7.307	VV	5484	83749	9.09%	0.397%
94	7.334	7.307	7.360	VV	6778	177212	19.24%	0.841%
95	7.388	7.360	7.398	VV	7234	149824	16.27%	0.711%
96	7.415	7.398	7.431	VV	7680	138994	15.09%	0.659%
97	7.456	7.431	7.482	VV	13293	276521	30.02%	1.312%
98	7.498	7.482	7.511	VV	6496	96906	10.52%	0.460%
99	7.514	7.511	7.561	VV	10483	167444	18.18%	0.794%
100	7.620	7.561	7.637	VV	8852	294589	31.99%	1.398%
101	7.648	7.637	7.688	VV	6309	156761	17.02%	0.744%
102	7.710	7.688	7.728	VV	7835	137825	14.96%	0.654%
103	7.740	7.728	7.750	VV	5918	73310	7.96%	0.348%
104	7.760	7.750	7.777	VV	5890	85264	9.26%	0.405%
105	7.805	7.777	7.823	VV	5517	135539	14.72%	0.643%
106	7.857	7.823	7.873	VV	6752	172452	18.72%	0.818%
107	7.888	7.873	7.927	VV	6271	164791	17.89%	0.782%
108	7.945	7.927	7.953	VV	5459	75320	8.18%	0.357%
109	7.975	7.953	7.999	VV	23907	332143	36.06%	1.576%
110	8.022	7.999	8.046	VV	6327	156129	16.95%	0.741%
111	8.064	8.046	8.083	VV	7542	125739	13.65%	0.597%
112	8.119	8.083	8.135	VV	5751	166204	18.05%	0.789%
113	8.153	8.135	8.184	VV	6770	171761	18.65%	0.815%
114	8.201	8.184	8.225	VV	8532	149792	16.26%	0.711%
115	8.248	8.225	8.262	VV	6406	116046	12.60%	0.551%
116	8.271	8.262	8.281	VV	5864	66893	7.26%	0.317%
117	8.308	8.281	8.329	VV	8924	193675	21.03%	0.919%
118	8.345	8.329	8.380	VV	5619	150135	16.30%	0.712%
119	8.400	8.380	8.416	VV	5386	97460	10.58%	0.462%
120	8.444	8.416	8.467	VV	5720	148754	16.15%	0.706%
121	8.483	8.467	8.491	VV	4543	60097	6.53%	0.285%
122	8.508	8.491	8.528	VV	6558	115676	12.56%	0.549%
123	8.543	8.528	8.562	VV	5712	103243	11.21%	0.490%
124	8.573	8.562	8.586	VV	4440	60133	6.53%	0.285%
125	8.606	8.586	8.629	VV	7400	132738	14.41%	0.630%
126	8.690	8.629	8.716	VV	20043	400678	43.50%	1.901%
127	8.730	8.716	8.749	VV	4293	75709	8.22%	0.359%
128	8.766	8.749	8.788	VV	4457	84152	9.14%	0.399%
129	8.836	8.788	8.855	VV	5386	163294	17.73%	0.775%
130	8.866	8.855	8.885	VV	3726	63679	6.91%	0.302%
131	8.915	8.885	8.971	VV	5364	216990	23.56%	1.030%
132	8.997	8.971	9.021	VV	4343	115258	12.51%	0.547%
133	9.057	9.021	9.079	VV	4845	126854	13.77%	0.602%
134	9.102	9.079	9.144	VV	3645	118465	12.86%	0.562%
135	9.173	9.144	9.185	VV	2886	65214	7.08%	0.309%
136	9.209	9.185	9.225	VV	3559	73379	7.97%	0.348%
137	9.234	9.225	9.243	VV	2820	30071	3.27%	0.143%
138	9.271	9.243	9.318	VV	3423	124110	13.48%	0.589%
139	9.344	9.318	9.397	VV	4887	154021	16.72%	0.731%
140	9.425	9.397	9.451	VV	4276	103258	11.21%	0.490%
141	9.508	9.451	9.554	VV	4277	167840	18.22%	0.796%

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142	9.587	9.554	9.628	VV	2015	81852	8.89%	0.388%
143	9.634	9.628	9.644	VV	1777	16404	1.78%	0.078%
144	9.666	9.644	9.682	VV	2353	47986	5.21%	0.228%
145	9.706	9.682	9.735	VV	3651	88331	9.59%	0.419%
146	9.751	9.735	9.770	VV	2826	50032	5.43%	0.237%
147	9.783	9.770	9.792	VV	2120	27018	2.93%	0.128%
148	9.809	9.792	9.820	VV	2329	37306	4.05%	0.177%
149	9.830	9.820	9.841	VV	2230	26945	2.93%	0.128%
150	9.854	9.841	9.894	VV	2390	61656	6.69%	0.293%
151	9.922	9.894	9.944	VV	1730	47419	5.15%	0.225%
152	9.964	9.944	10.005	VV	1905	62088	6.74%	0.295%
153	10.027	10.005	10.054	VV	2004	48535	5.27%	0.230%
154	10.067	10.054	10.080	VV	1482	21424	2.33%	0.102%
155	10.138	10.080	10.258	VV	6454	230824	25.06%	1.095%
156	10.284	10.258	10.310	VV	1670	41908	4.55%	0.199%
157	10.327	10.310	10.356	VV	1225	29983	3.26%	0.142%
158	10.385	10.356	10.394	VV	1327	27572	2.99%	0.131%
159	10.419	10.394	10.448	VV	1692	44753	4.86%	0.212%
160	10.487	10.448	10.527	VV	1539	62484	6.78%	0.296%
161	10.559	10.527	10.591	VV	6588	124104	13.47%	0.589%
162	10.604	10.591	10.643	VV	1441	37279	4.05%	0.177%
163	10.673	10.643	10.691	VV	1078	28592	3.10%	0.136%
164	10.700	10.691	10.719	VV	1085	16014	1.74%	0.076%
165	10.749	10.719	10.791	VV	1008	37799	4.10%	0.179%
166	10.828	10.791	10.848	VV	967	30183	3.28%	0.143%
167	10.879	10.848	10.904	VV	1552	37468	4.07%	0.178%
168	10.913	10.904	10.954	VV	821	22925	2.49%	0.109%
169	10.965	10.954	10.998	VV	810	18678	2.03%	0.089%
170	11.009	10.998	11.030	VV	709	12711	1.38%	0.060%
171	11.043	11.030	11.080	VV	660	18723	2.03%	0.089%
172	11.120	11.080	11.148	VV	1047	31742	3.45%	0.151%
173	11.158	11.148	11.168	VV	717	8051	0.87%	0.038%
174	11.188	11.168	11.232	VV	1199	30350	3.30%	0.144%
175	11.242	11.232	11.250	VV	606	6369	0.69%	0.030%
176	11.279	11.250	11.334	VV	2623	57286	6.22%	0.272%
177	11.342	11.334	11.368	VV	586	9975	1.08%	0.047%
178	11.391	11.368	11.411	VV	487	11009	1.20%	0.052%
179	11.422	11.411	11.429	VV	395	4378	0.48%	0.021%
180	11.459	11.429	11.521	VV	624	26457	2.87%	0.126%
181	11.543	11.521	11.573	VV	1117	15420	1.67%	0.073%
182	11.583	11.573	11.615	VV	519	10542	1.14%	0.050%
183	11.666	11.615	11.724	VV	440	23220	2.52%	0.110%
184	11.741	11.724	11.767	VV	402	7958	0.86%	0.038%
185	11.785	11.767	11.809	VV	402	7997	0.87%	0.038%
186	11.837	11.809	11.918	VV	684	25365	2.75%	0.120%
187	11.940	11.918	11.954	VV	336	5831	0.63%	0.028%
188	11.976	11.954	11.999	VV	370	7911	0.86%	0.038%
189	12.010	11.999	12.034	VV	234	4214	0.46%	0.020%
190	12.077	12.034	12.104	VV	326	10164	1.10%	0.048%
191	12.141	12.104	12.159	VV	329	7728	0.84%	0.037%
192	12.170	12.159	12.208	VV	231	5408	0.59%	0.026%
193	12.216	12.208	12.233	VV	239	2438	0.26%	0.012%
194	12.238	12.233	12.254	VV	164	1732	0.19%	0.008%

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195	12.356	12.254	12.408	VV	356	18200	1.98%	0.086%
196	12.435	12.408	12.463	VV	377	8048	0.87%	0.038%
197	12.496	12.463	12.524	VV	789	13030	1.41%	0.062%
198	12.533	12.524	12.555	VV	163	2534	0.28%	0.012%
199	12.561	12.555	12.582	VV	135	1626	0.18%	0.008%
200	12.615	12.582	12.632	VV	195	4196	0.46%	0.020%
201	12.644	12.632	12.674	VV	443	3370	0.37%	0.016%
202	12.684	12.674	12.716	VV	146	1759	0.19%	0.008%
203	12.767	12.716	12.832	PV	193	6968	0.76%	0.033%
204	12.858	12.832	12.888	VV	143	3304	0.36%	0.016%
205	12.938	12.888	13.031	VV	70010	921011	100.00%	4.370%
206	13.040	13.031	13.089	VV	414	10678	1.16%	0.051%
207	13.134	13.089	13.153	VV	463	11003	1.19%	0.052%
208	13.174	13.153	13.197	VV	265	5605	0.61%	0.027%
209	13.207	13.197	13.238	VV	235	4135	0.45%	0.020%
210	13.285	13.238	13.304	VV	538	10309	1.12%	0.049%
211	13.321	13.304	13.347	VV	262	4929	0.54%	0.023%
212	13.374	13.347	13.392	VV	234	4679	0.51%	0.022%
213	13.400	13.392	13.424	VV	201	3073	0.33%	0.015%
214	13.643	13.583	13.669	VV	356	10079	1.09%	0.048%
215	13.776	13.771	13.788	VV	135	1043	0.11%	0.005%
216	13.859	13.854	13.901	VV	174	2471	0.27%	0.012%
217	13.926	13.901	13.953	VV	178	3991	0.43%	0.019%
218	13.957	13.953	14.020	VV	166	4333	0.47%	0.021%
219	14.032	14.020	14.041	VV	140	1351	0.15%	0.006%
220	14.129	14.084	14.149	VV	320	6374	0.69%	0.030%
221	14.159	14.149	14.195	VV	152	2536	0.28%	0.012%
222	14.205	14.195	14.223	PV	108	1261	0.14%	0.006%
223	14.254	14.223	14.280	VV	374	6150	0.67%	0.029%
224	14.417	14.396	14.459	VV	386	7322	0.79%	0.035%
225	14.474	14.459	14.521	VV	168	3793	0.41%	0.018%
226	14.531	14.521	14.578	VV	143	3275	0.36%	0.016%
227	14.635	14.578	14.687	VV	580	14562	1.58%	0.069%
228	14.697	14.687	14.721	VV	139	2328	0.25%	0.011%
229	14.754	14.721	14.764	VV	275	4664	0.51%	0.022%
230	14.793	14.764	14.837	VV	963	16949	1.84%	0.080%
231	14.845	14.837	14.894	VV	205	3682	0.40%	0.017%
232	14.992	14.981	15.007	VV	105	1155	0.13%	0.005%
233	15.044	15.007	15.080	VV	117	3125	0.34%	0.015%
234	15.094	15.080	15.112	VV	155	1532	0.17%	0.007%
235	15.128	15.112	15.149	VV	137	1655	0.18%	0.008%
236	15.210	15.149	15.262	PV	212	6230	0.68%	0.030%
237	15.396	15.381	15.438	VV	151	2682	0.29%	0.013%
238	15.455	15.438	15.464	VV	111	1082	0.12%	0.005%
239	15.515	15.464	15.586	VV	139	5727	0.62%	0.027%
240	15.605	15.586	15.658	VV	144	4644	0.50%	0.022%
241	15.668	15.658	15.728	VV	178	4625	0.50%	0.022%
242	15.872	15.850	15.903	VV	148	4010	0.44%	0.019%
243	15.986	15.903	16.071	PV	217	11388	1.24%	0.054%
244	16.145	16.071	16.218	VV	364	6946	0.75%	0.033%
245	16.588	16.388	16.611	VV	109	9774	1.06%	0.046%
246	16.760	16.611	16.869	VV	1497	33244	3.61%	0.158%

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247	16.899	16.869	16.923	PV	103	1633	0.18%	0.008%
248	17.052	16.923	17.089	VV	138	2612	0.28%	0.012%
249	17.210	17.089	17.263	PV	1831	28699	3.12%	0.136%
250	17.311	17.263	17.343	PV	191	3555	0.39%	0.017%
251	17.395	17.343	17.424	VV	250	7568	0.82%	0.036%
252	17.576	17.424	17.594	VV	197	20211	2.19%	0.096%
253	17.646	17.594	17.689	VV	2593	45779	4.97%	0.217%
254	17.704	17.689	17.749	VV	228	6196	0.67%	0.029%
255	17.803	17.749	17.835	VV	181	6162	0.67%	0.029%
256	17.924	17.835	18.016	VV	565	23389	2.54%	0.111%
257	18.067	18.016	18.124	VV	2687	48032	5.22%	0.228%
258	18.142	18.124	18.177	VV	216	4325	0.47%	0.021%
259	18.329	18.177	18.349	VV	245	8012	0.87%	0.038%
260	18.377	18.349	18.422	VV	170	3674	0.40%	0.017%
261	18.478	18.422	18.546	PV	3121	65740	7.14%	0.312%
262	18.735	18.546	18.754	PV	287	15569	1.69%	0.074%
263	18.873	18.754	18.936	VV	2622	65811	7.15%	0.312%
264	19.046	18.936	19.083	VV	1866	46648	5.06%	0.221%
265	19.119	19.083	19.142	VV	275	7138	0.77%	0.034%
266	19.258	19.142	19.316	VV	2413	48194	5.23%	0.229%
267	19.339	19.316	19.354	VV	90	1620	0.18%	0.008%
268	19.561	19.354	19.600	PV	2793	92319	10.02%	0.438%
269	19.632	19.600	19.669	VV	2242	52365	5.69%	0.248%
270	19.867	19.669	19.943	VV	2439	221640	24.06%	1.052%
271	19.998	19.943	20.020	VV	2846	81895	8.89%	0.389%
272	20.051	20.020	20.090	VV	3973	112116	12.17%	0.532%
273	20.152	20.090	20.204	VV	2514	154141	16.74%	0.731%
274	20.352	20.204	20.383	VV	3425	260726	28.31%	1.237%
275	20.433	20.383	20.464	VV	2877	135562	14.72%	0.643%
276	20.523	20.464	20.623	VV	4478	292139	31.72%	1.386%
277	20.638	20.623	20.654	VV	2425	44435	4.82%	0.211%
278	20.721	20.654	20.835	VV	3112	263585	28.62%	1.251%
279	20.883	20.835	20.925	VV	2005	108048	11.73%	0.513%
280	20.945	20.925	20.980	VV	1874	60396	6.56%	0.287%
281	21.050	20.980	21.102	VV	3091	162751	17.67%	0.772%
282	21.135	21.102	21.203	VV	2057	114382	12.42%	0.543%
283	21.300	21.203	21.458	VV	1859	251440	27.30%	1.193%
284	21.607	21.458	21.631	VV	1414	125560	13.63%	0.596%
285	21.669	21.631	21.769	VV	1613	88105	9.57%	0.418%
286	21.782	21.769	21.841	VV	610	23288	2.53%	0.110%
287	21.864	21.841	21.878	VV	404	8286	0.90%	0.039%
288	21.919	21.878	21.968	VV	347	15713	1.71%	0.075%
289	21.986	21.968	22.034	VV	182	4624	0.50%	0.022%

Sum of corrected areas: 21076933

Aliphatic EPH 111424.M Tue Nov 19 12:49:54 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-20			SDG No.:	P4839
Lab Sample ID:	P4839-12			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	79.2
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 18:54	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.95		1	0.48	1.26	mg/kg	FC067782.D
Aliphatic C12-C16	Aliphatic C12-C16	12.1		1	0.30	0.84	mg/kg	FC067782.D
Aliphatic C16-C21	Aliphatic C16-C21	13.0		1	0.38	1.26	mg/kg	FC067782.D
Aliphatic C21-C28	Aliphatic C21-C28	3.14		1	1.01	1.68	mg/kg	FC067782.D
Aliphatic C28-C40	Aliphatic C28-C40	13.3		1	2.27	2.52	mg/kg	FC067782.D
Aromatic C10-C12	Aromatic C10-C12	0.70	J	1	0.38	0.84	mg/kg	FD048751.D
Aromatic C12-C16	Aromatic C12-C16	8.64		1	0.43	1.26	mg/kg	FD048751.D
Aromatic C16-C21	Aromatic C16-C21	13.9		1	1.21	2.10	mg/kg	FD048751.D
Aromatic C21-C36	Aromatic C21-C36	6.28		1	2.52	3.36	mg/kg	FD048751.D
Total AliphaticEPH	Total AliphaticEPH	43.5			4.44	7.56	mg/kg	
Total AromaticEPH	Total AromaticEPH	29.5			4.54	7.56	mg/kg	
Total EPH	Total EPH	73.0			8.98	15.1	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-20			SDG No.:	P4839
Lab Sample ID:	P4839-12			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	79.2
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 18:54	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.95		1	0.48	1.26	mg/kg	FC067782.D
Aliphatic C12-C16	Aliphatic C12-C16	12.1		1	0.30	0.84	mg/kg	FC067782.D
Aliphatic C16-C21	Aliphatic C16-C21	13.0		1	0.38	1.26	mg/kg	FC067782.D
Aliphatic C21-C28	Aliphatic C21-C28	3.14		1	1.01	1.68	mg/kg	FC067782.D
Aliphatic C28-C40	Aliphatic C28-C40	13.3		1	2.27	2.52	mg/kg	FC067782.D
Aromatic C10-C12	Aromatic C10-C12	0.70	J	1	0.38	0.84	mg/kg	FD048751.D
Aromatic C12-C16	Aromatic C12-C16	8.64		1	0.43	1.26	mg/kg	FD048751.D
Aromatic C16-C21	Aromatic C16-C21	13.9		1	1.21	2.10	mg/kg	FD048751.D
Aromatic C21-C36	Aromatic C21-C36	6.28		1	2.52	3.36	mg/kg	FD048751.D
Total AliphaticEPH	Total AliphaticEPH	43.5			4.44	7.56	mg/kg	
Total AromaticEPH	Total AromaticEPH	29.5			4.54	7.56	mg/kg	
Total EPH	Total EPH	73.0			8.98	15.1	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-20		SDG No.:	P4839	
Lab Sample ID:	P4839-12		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	79.2	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067782.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	1.95		0.48	1.26	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	12.1		0.30	0.84	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	13.0		0.38	1.26	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	3.14		1.01	1.68	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.3		2.27	2.52	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.2		40 - 140	56%	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:	P4839-12	Acq On:	15 Nov 2024 18:54
Client Sample ID:	EX-9-TPH-20	Operator:	YP/AJ
Data file:	FC067782.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	79737438	517.875		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4092573	28.19		ug/ml
Aliphatic C9-C12	3.172	6.448	3848904	23.215	300	ug/ml
Aliphatic C12-C16	6.449	9.838	24589659	144.319	200	ug/ml
Aliphatic C16-C21	9.839	13.196	26288279	154.982	300	ug/ml
Aliphatic C21-C28	13.197	16.850	5872507	37.338	400	ug/ml
Aliphatic C28-C40	16.851	21.693	19138089	158.021	600	ug/ml
Aliphatic C9-C28	3.172	16.850	60599349	359.854	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067782.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:54
Operator : YP/AJ
Sample : P4839-12
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-20

Integration File: autoint1.e
Quant Time: Nov 16 08:24:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.929	4092573	28.193 ug/ml
Spiked Amount 50.000		Recovery = 56.39%	
Target Compounds			

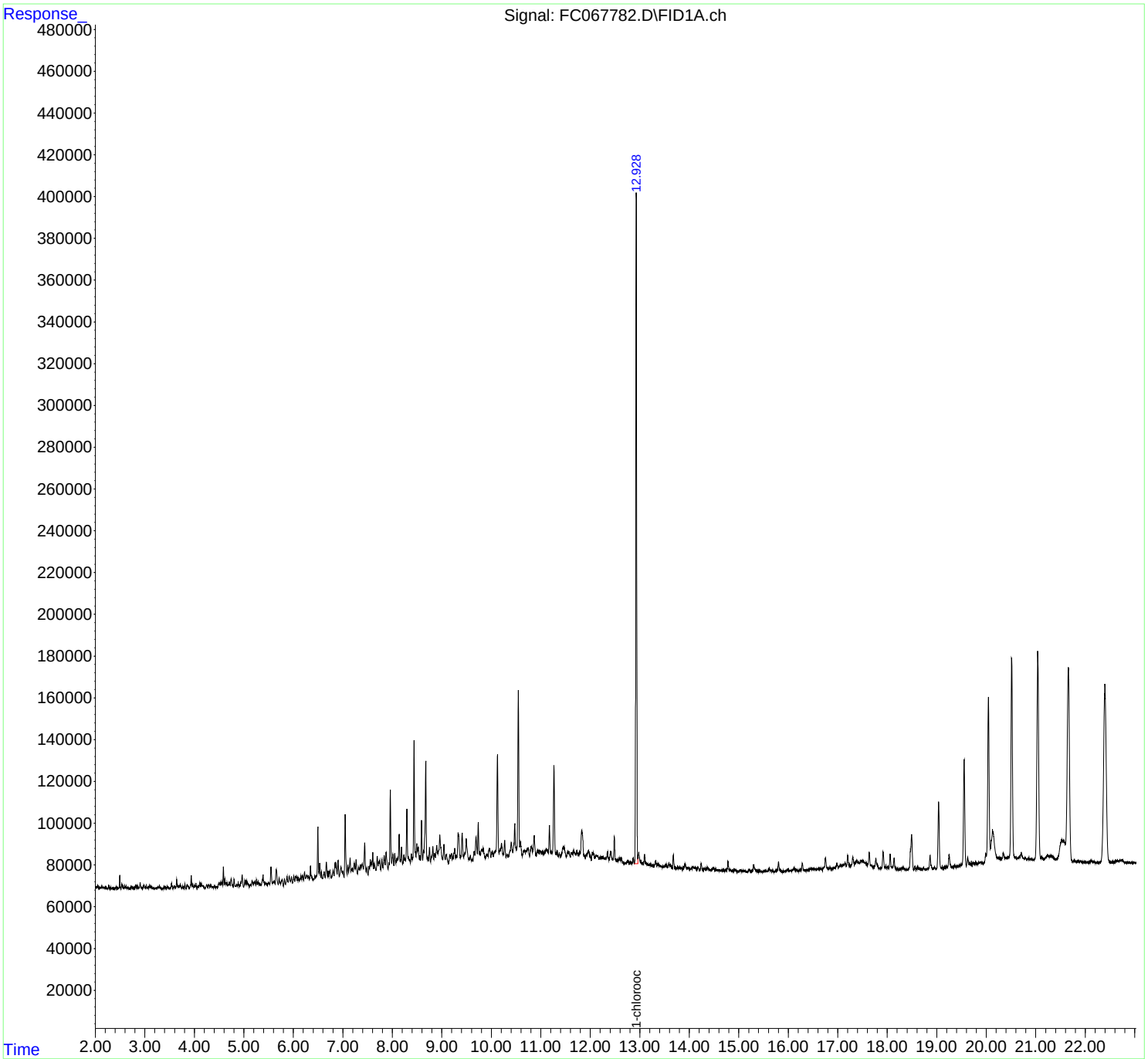
(f)=RT Delta > 1/2 Window (m)=manual int.

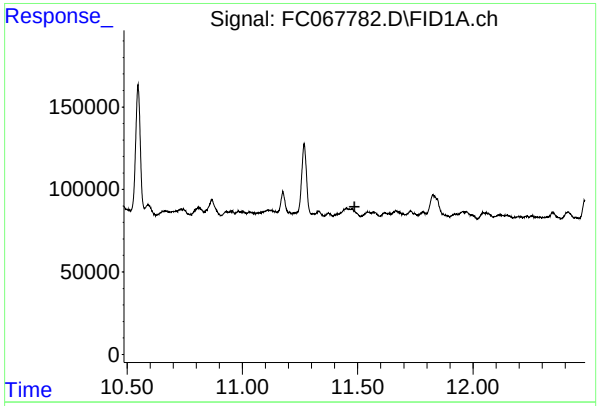
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067782.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:54
Operator : YP/AJ
Sample : P4839-12
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-20

Integration File: autoint1.e
Quant Time: Nov 16 08:24:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

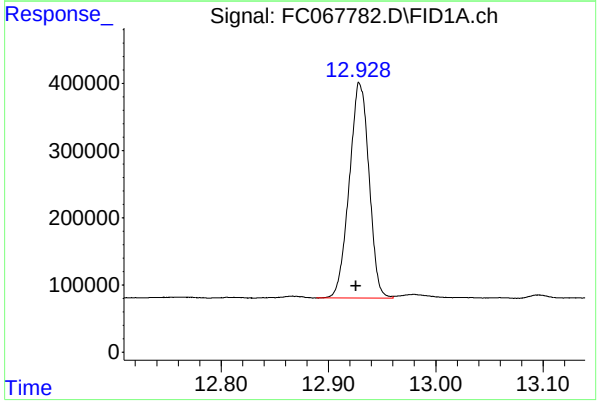




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-20



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.004 min
Response: 4092573
Conc: 28.19 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067782.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 18:54
Sample : P4839-12
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.266	3.224	3.278	BV	592	7620	0.17%	0.009%
2	3.291	3.278	3.357	VV	1276	15587	0.36%	0.019%
3	3.372	3.357	3.381	PV	289	2163	0.05%	0.003%
4	3.397	3.381	3.410	VV	1043	10466	0.24%	0.012%
5	3.420	3.410	3.434	VV	712	7012	0.16%	0.008%
6	3.451	3.434	3.461	VV	913	9224	0.21%	0.011%
7	3.473	3.461	3.499	VV	956	11962	0.27%	0.014%
8	3.538	3.499	3.568	VV	2331	36512	0.83%	0.043%
9	3.596	3.568	3.621	VV	1353	22644	0.52%	0.027%
10	3.643	3.621	3.664	VV	4423	50243	1.15%	0.060%
11	3.677	3.664	3.689	VV	1383	16546	0.38%	0.020%
12	3.715	3.689	3.751	VV	2197	37404	0.85%	0.044%
13	3.762	3.751	3.790	VV	1000	12148	0.28%	0.014%
14	3.809	3.790	3.827	VV	2255	20114	0.46%	0.024%
15	3.856	3.827	3.901	VV	1844	38440	0.88%	0.046%
16	3.938	3.901	3.954	VV	6226	70649	1.61%	0.084%
17	3.965	3.954	3.983	VV	2255	24733	0.57%	0.029%
18	3.999	3.983	4.015	VV	1662	21322	0.49%	0.025%
19	4.031	4.015	4.052	VV	2527	27964	0.64%	0.033%
20	4.072	4.052	4.084	VV	1063	12492	0.29%	0.015%
21	4.113	4.084	4.127	VV	2821	38202	0.87%	0.045%
22	4.141	4.127	4.168	VV	2586	38576	0.88%	0.046%
23	4.176	4.168	4.217	VV	1435	20274	0.46%	0.024%
24	4.248	4.217	4.271	PV	1874	28004	0.64%	0.033%
25	4.288	4.271	4.313	VV	1771	29326	0.67%	0.035%
26	4.334	4.313	4.358	VV	1533	27121	0.62%	0.032%
27	4.372	4.358	4.387	VV	605	8184	0.19%	0.010%
28	4.403	4.387	4.423	VV	1128	13881	0.32%	0.016%
29	4.449	4.423	4.464	VV	643	12023	0.27%	0.014%
30	4.502	4.464	4.517	VV	2639	48467	1.11%	0.058%
31	4.532	4.517	4.544	VV	2719	33376	0.76%	0.040%
32	4.557	4.544	4.570	VV	3058	34982	0.80%	0.042%
33	4.587	4.570	4.603	VV	10093	98980	2.26%	0.118%
34	4.615	4.603	4.630	VV	4282	46697	1.07%	0.055%
35	4.641	4.630	4.652	VV	2452	27268	0.62%	0.032%
36	4.662	4.652	4.676	VV	2545	27852	0.64%	0.033%

rteres

37	4.707	4.676	4.722	VV	2769	50090	1.14%	0.059%
38	4.743	4.722	4.783	VV	4157	81302	1.86%	0.097%
39	4.803	4.783	4.832	VV	4157	51218	1.17%	0.061%
40	4.854	4.832	4.867	VV	1444	19746	0.45%	0.023%
41	4.887	4.867	4.907	VV	1759	29305	0.67%	0.035%
42	4.918	4.907	4.924	VV	955	7750	0.18%	0.009%
43	4.966	4.924	4.995	VV	6109	112397	2.57%	0.133%
44	5.022	4.995	5.035	VV	3487	44990	1.03%	0.053%
45	5.048	5.035	5.060	VV	3419	35943	0.82%	0.043%
46	5.071	5.060	5.111	VV	2505	44032	1.01%	0.052%
47	5.137	5.111	5.148	VV	1261	19005	0.43%	0.023%
48	5.167	5.148	5.199	VV	3177	63205	1.44%	0.075%
49	5.226	5.199	5.241	VV	2876	51674	1.18%	0.061%
50	5.256	5.241	5.271	VV	3586	40790	0.93%	0.048%
51	5.287	5.271	5.333	VV	2468	60547	1.38%	0.072%
52	5.345	5.333	5.354	VV	1172	13461	0.31%	0.016%
53	5.388	5.354	5.421	VV	5758	111658	2.55%	0.133%
54	5.437	5.421	5.473	VV	2113	45613	1.04%	0.054%
55	5.493	5.473	5.525	VV	1801	46487	1.06%	0.055%
56	5.549	5.525	5.590	VV	9567	161616	3.69%	0.192%
57	5.615	5.590	5.634	VV	2812	57381	1.31%	0.068%
58	5.655	5.634	5.694	VV	8182	162384	3.71%	0.193%
59	5.714	5.694	5.745	VV	4022	65913	1.51%	0.078%
60	5.775	5.745	5.799	VV	3388	68573	1.57%	0.081%
61	5.822	5.799	5.842	VV	3460	45446	1.04%	0.054%
62	5.873	5.842	5.892	VV	4748	85963	1.96%	0.102%
63	5.917	5.892	5.941	VV	4837	97755	2.23%	0.116%
64	5.963	5.941	5.981	VV	4463	71971	1.64%	0.085%
65	6.011	5.981	6.030	VV	4820	93668	2.14%	0.111%
66	6.050	6.030	6.078	VV	4349	106940	2.44%	0.127%
67	6.095	6.078	6.115	VV	4071	74821	1.71%	0.089%
68	6.154	6.115	6.168	VV	4891	117648	2.69%	0.140%
69	6.183	6.168	6.207	VV	4722	91216	2.08%	0.108%
70	6.227	6.207	6.248	VV	6605	112287	2.57%	0.133%
71	6.273	6.248	6.289	VV	5043	106970	2.44%	0.127%
72	6.301	6.289	6.328	VV	4785	95187	2.17%	0.113%
73	6.347	6.328	6.396	VV	9578	199906	4.57%	0.237%
74	6.408	6.396	6.418	VV	3401	42435	0.97%	0.050%
75	6.436	6.418	6.449	VV	4851	73153	1.67%	0.087%
76	6.496	6.449	6.519	VV	27835	432091	9.87%	0.513%
77	6.534	6.519	6.555	VV	10657	162650	3.72%	0.193%
78	6.567	6.555	6.590	VV	6572	97865	2.24%	0.116%
79	6.623	6.590	6.642	VV	6527	152671	3.49%	0.181%
80	6.668	6.642	6.691	VV	11070	208574	4.77%	0.248%
81	6.704	6.691	6.717	VV	6897	85636	1.96%	0.102%
82	6.739	6.717	6.768	VV	6590	160655	3.67%	0.191%
83	6.805	6.768	6.822	VV	7082	170564	3.90%	0.203%
84	6.843	6.822	6.855	VV	10751	159300	3.64%	0.189%
85	6.865	6.855	6.883	VV	10083	137914	3.15%	0.164%
86	6.904	6.883	6.931	VV	11808	213971	4.89%	0.254%
87	6.963	6.931	6.991	VV	8666	241355	5.51%	0.287%
88	7.004	6.991	7.024	VV	6589	107594	2.46%	0.128%
89	7.048	7.024	7.085	VV	33597	533462	12.19%	0.633%

90	7.103	7.085	7.118	VV	9398	142736	3.26%	0.169%
91	7.147	7.118	7.166	VV	12776	257944	5.89%	0.306%
92	7.191	7.166	7.206	VV	7959	176221	4.03%	0.209%
93	7.232	7.206	7.248	VV	10145	207543	4.74%	0.246%
94	7.269	7.248	7.295	VV	11811	236509	5.40%	0.281%
95	7.319	7.295	7.343	VV	8211	206954	4.73%	0.246%
96	7.359	7.343	7.372	VV	9363	140773	3.22%	0.167%
97	7.391	7.372	7.416	VV	9811	229971	5.25%	0.273%
98	7.443	7.416	7.471	VV	19826	389357	8.90%	0.462%
99	7.488	7.471	7.510	VV	8075	154382	3.53%	0.183%
100	7.530	7.510	7.540	VV	8521	127752	2.92%	0.152%
101	7.557	7.540	7.569	VV	11688	168946	3.86%	0.201%
102	7.606	7.569	7.622	VV	15141	345039	7.88%	0.410%
103	7.636	7.622	7.673	VV	10068	248739	5.68%	0.295%
104	7.696	7.673	7.713	VV	13394	240791	5.50%	0.286%
105	7.745	7.713	7.765	VV	11290	301361	6.89%	0.358%
106	7.790	7.765	7.808	VV	11706	237230	5.42%	0.282%
107	7.838	7.808	7.856	VV	13305	302455	6.91%	0.359%
108	7.875	7.856	7.914	VV	15128	385374	8.81%	0.458%
109	7.960	7.914	7.987	VV	44734	773481	17.67%	0.918%
110	8.011	7.987	8.032	VV	14158	310217	7.09%	0.368%
111	8.050	8.032	8.070	VV	14300	268753	6.14%	0.319%
112	8.138	8.070	8.163	VV	23553	741874	16.95%	0.881%
113	8.187	8.163	8.209	VV	17161	356023	8.13%	0.423%
114	8.234	8.209	8.267	VV	13667	397314	9.08%	0.472%
115	8.295	8.267	8.342	VV	35555	784617	17.93%	0.932%
116	8.350	8.342	8.365	VV	11452	144918	3.31%	0.172%
117	8.385	8.365	8.406	VV	13778	294062	6.72%	0.349%
118	8.440	8.406	8.478	VV	68229	1127846	25.77%	1.339%
119	8.494	8.478	8.508	VV	18872	288639	6.59%	0.343%
120	8.525	8.508	8.547	VV	16941	354610	8.10%	0.421%
121	8.560	8.547	8.571	VV	13089	173552	3.97%	0.206%
122	8.591	8.571	8.614	VV	29901	487747	11.14%	0.579%
123	8.676	8.614	8.704	VV	57815	1284906	29.36%	1.526%
124	8.714	8.704	8.734	VV	12218	206248	4.71%	0.245%
125	8.753	8.734	8.774	VV	16899	320255	7.32%	0.380%
126	8.820	8.774	8.838	VV	17092	500184	11.43%	0.594%
127	8.853	8.838	8.868	VV	13934	234088	5.35%	0.278%
128	8.899	8.868	8.918	VV	17605	449293	10.27%	0.533%
129	8.961	8.918	9.011	VV	22630	898168	20.52%	1.066%
130	9.044	9.011	9.070	VV	17987	479688	10.96%	0.570%
131	9.092	9.070	9.129	VV	13226	408481	9.33%	0.485%
132	9.162	9.129	9.177	VV	12989	321089	7.34%	0.381%
133	9.196	9.177	9.212	VV	13496	259777	5.94%	0.308%
134	9.261	9.212	9.304	VV	15890	712018	16.27%	0.845%
135	9.332	9.304	9.375	VV	23491	731568	16.72%	0.869%
136	9.412	9.375	9.440	VV	23224	615236	14.06%	0.731%
137	9.496	9.440	9.555	VV	20714	966317	22.08%	1.147%
138	9.577	9.555	9.627	VV	11758	463356	10.59%	0.550%
139	9.653	9.627	9.667	VV	14470	301947	6.90%	0.359%
140	9.692	9.667	9.718	VV	21278	510380	11.66%	0.606%
141	9.737	9.718	9.781	VV	28378	651845	14.89%	0.774%

142	9.814	9.781	9.828	VV	14988	406783	9.29%	0.483%
143	9.840	9.828	9.877	VV	15756	397597	9.08%	0.472%
144	9.908	9.877	9.926	VV	12814	359049	8.20%	0.426%
145	9.966	9.926	9.992	VV	15389	546306	12.48%	0.649%
146	10.015	9.992	10.046	VV	14185	416440	9.51%	0.494%
147	10.062	10.046	10.070	VV	14056	191001	4.36%	0.227%
148	10.125	10.070	10.154	VV	60099	1339802	30.61%	1.591%
149	10.208	10.154	10.241	VV	17793	771741	17.63%	0.916%
150	10.271	10.241	10.297	VV	19205	492242	11.25%	0.584%
151	10.315	10.297	10.348	VV	12551	363186	8.30%	0.431%
152	10.405	10.348	10.438	VV	18114	793008	18.12%	0.942%
153	10.474	10.438	10.513	VV	27231	816386	18.65%	0.969%
154	10.548	10.513	10.577	VV	90475	1597221	36.49%	1.897%
155	10.591	10.577	10.626	VV	17902	449108	10.26%	0.533%
156	10.666	10.626	10.691	VV	14249	521331	11.91%	0.619%
157	10.742	10.691	10.778	VV	15171	725599	16.58%	0.862%
158	10.812	10.778	10.834	VV	16041	491477	11.23%	0.584%
159	10.867	10.834	10.911	VV	21117	717263	16.39%	0.852%
160	10.955	10.911	10.968	VV	13760	452065	10.33%	0.537%
161	10.982	10.968	10.994	VV	13945	211172	4.82%	0.251%
162	11.001	10.994	11.018	VV	13765	191203	4.37%	0.227%
163	11.034	11.018	11.058	VV	13310	306708	7.01%	0.364%
164	11.116	11.058	11.150	VV	14352	754846	17.25%	0.896%
165	11.176	11.150	11.214	VV	25536	639876	14.62%	0.760%
166	11.268	11.214	11.310	VV	54447	1311876	29.97%	1.558%
167	11.331	11.310	11.355	VV	13709	329743	7.53%	0.392%
168	11.373	11.355	11.393	VV	12484	264939	6.05%	0.315%
169	11.451	11.393	11.467	VV	15561	589472	13.47%	0.700%
170	11.474	11.467	11.514	VV	15046	363390	8.30%	0.431%
171	11.544	11.514	11.598	VV	13144	602731	13.77%	0.716%
172	11.617	11.598	11.640	VV	12519	301496	6.89%	0.358%
173	11.666	11.640	11.707	VV	13571	500475	11.44%	0.594%
174	11.729	11.707	11.762	VV	13698	402381	9.19%	0.478%
175	11.783	11.762	11.797	VV	13029	252606	5.77%	0.300%
176	11.827	11.797	11.899	VV	23298	961970	21.98%	1.142%
177	11.922	11.899	11.934	VV	11542	232049	5.30%	0.276%
178	11.971	11.934	12.020	VV	13048	591830	13.52%	0.703%
179	12.044	12.020	12.091	VV	12355	470807	10.76%	0.559%
180	12.119	12.091	12.135	VV	10953	276103	6.31%	0.328%
181	12.148	12.135	12.184	VV	10721	295152	6.74%	0.350%
182	12.201	12.184	12.217	VV	9991	193227	4.41%	0.229%
183	12.234	12.217	12.243	VV	10103	156745	3.58%	0.186%
184	12.256	12.243	12.303	VV	10390	346185	7.91%	0.411%
185	12.346	12.303	12.384	VV	12118	488645	11.16%	0.580%
186	12.412	12.384	12.459	VV	12682	463180	10.58%	0.550%
187	12.485	12.459	12.539	VV	19419	538597	12.31%	0.640%
188	12.585	12.539	12.610	VV	9189	369061	8.43%	0.438%
189	12.629	12.610	12.698	VV	9358	405409	9.26%	0.481%
190	12.710	12.698	12.726	VV	7078	117532	2.69%	0.140%
191	12.761	12.726	12.790	VV	7812	280621	6.41%	0.333%
192	12.808	12.790	12.831	VV	7336	170434	3.89%	0.202%
193	12.867	12.831	12.889	VV	9087	263399	6.02%	0.313%
194	12.929	12.889	12.961	VV	322640	4376669	100.00%	5.197%

195	12.979	12.961	13.047	VV	11858	438819	10.03%	0.521%
196	13.060	13.047	13.075	VV	6877	110671	2.53%	0.131%
197	13.096	13.075	13.124	VV	10826	237812	5.43%	0.282%
198	13.130	13.124	13.139	VV	6518	58206	1.33%	0.069%
199	13.143	13.139	13.182	VV	6571	154304	3.53%	0.183%
200	13.192	13.182	13.241	VV	5972	203785	4.66%	0.242%
201	13.259	13.241	13.286	VV	5818	144607	3.30%	0.172%
202	13.319	13.286	13.348	VV	7582	228126	5.21%	0.271%
203	13.366	13.348	13.461	VV	6276	358341	8.19%	0.425%
204	13.480	13.461	13.495	VV	4897	97043	2.22%	0.115%
205	13.530	13.495	13.567	VV	5764	220291	5.03%	0.262%
206	13.593	13.567	13.611	VV	6063	140873	3.22%	0.167%
207	13.627	13.611	13.651	VV	5472	112568	2.57%	0.134%
208	13.679	13.651	13.713	VV	10188	228889	5.23%	0.272%
209	13.728	13.713	13.748	VV	4173	83013	1.90%	0.099%
210	13.766	13.748	13.788	VV	4251	92301	2.11%	0.110%
211	13.827	13.788	13.859	VV	4285	163364	3.73%	0.194%
212	13.914	13.859	13.960	VV	5737	256300	5.86%	0.304%
213	13.975	13.960	14.018	VV	4149	125521	2.87%	0.149%
214	14.066	14.018	14.101	VV	4096	183063	4.18%	0.217%
215	14.116	14.101	14.148	VV	4170	101508	2.32%	0.121%
216	14.181	14.148	14.212	VV	4177	128334	2.93%	0.152%
217	14.242	14.212	14.272	VV	5761	135365	3.09%	0.161%
218	14.310	14.272	14.340	VV	3360	123426	2.82%	0.147%
219	14.367	14.340	14.422	VV	3751	156100	3.57%	0.185%
220	14.487	14.422	14.514	VV	3816	159644	3.65%	0.190%
221	14.520	14.514	14.543	VV	2922	45527	1.04%	0.054%
222	14.559	14.543	14.631	VV	2566	124191	2.84%	0.147%
223	14.642	14.631	14.660	VV	2421	38609	0.88%	0.046%
224	14.686	14.660	14.721	VV	2431	80188	1.83%	0.095%
225	14.736	14.721	14.758	VV	2823	52314	1.20%	0.062%
226	14.782	14.758	14.809	VV	6502	122899	2.81%	0.146%
227	14.819	14.809	14.884	VV	2396	90885	2.08%	0.108%
228	14.920	14.884	14.961	VV	2611	93429	2.13%	0.111%
229	14.977	14.961	14.998	VV	1808	34683	0.79%	0.041%
230	15.034	14.998	15.054	VV	2075	61999	1.42%	0.074%
231	15.075	15.054	15.161	VV	1896	101623	2.32%	0.121%
232	15.167	15.161	15.183	VV	1364	17244	0.39%	0.020%
233	15.208	15.183	15.267	VV	2142	83717	1.91%	0.099%
234	15.302	15.267	15.398	VV	4610	168917	3.86%	0.201%
235	15.426	15.398	15.453	VV	1776	45169	1.03%	0.054%
236	15.464	15.453	15.495	VV	1412	29659	0.68%	0.035%
237	15.515	15.495	15.534	VV	1486	30632	0.70%	0.036%
238	15.553	15.534	15.583	VV	1722	40642	0.93%	0.048%
239	15.616	15.583	15.668	VV	2419	87907	2.01%	0.104%
240	15.670	15.668	15.726	VV	1542	40483	0.92%	0.048%
241	15.763	15.726	15.777	VV	1870	41432	0.95%	0.049%
242	15.802	15.777	15.878	VV	5525	138526	3.17%	0.164%
243	15.891	15.878	15.906	VV	1123	15821	0.36%	0.019%
244	15.992	15.906	16.021	VV	2064	91252	2.08%	0.108%
245	16.039	16.021	16.063	VV	1443	32453	0.74%	0.039%
246	16.118	16.063	16.151	VV	2087	86891	1.99%	0.103%

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247	16.159	16.151	16.204	VV	1643	42961	0.98%	0.051%
248	16.235	16.204	16.261	VV	1618	41057	0.94%	0.049%
249	16.282	16.261	16.324	VV	4782	93743	2.14%	0.111%
250	16.328	16.324	16.357	VV	1520	24536	0.56%	0.029%
251	16.445	16.357	16.465	VV	1808	92453	2.11%	0.110%
252	16.493	16.465	16.534	VV	2053	75754	1.73%	0.090%
253	16.541	16.534	16.567	VV	1953	33067	0.76%	0.039%
254	16.609	16.567	16.618	VV	2053	51809	1.18%	0.062%
255	16.646	16.618	16.684	VV	2114	70554	1.61%	0.084%
256	16.750	16.684	16.787	VV	6842	198311	4.53%	0.235%
257	16.796	16.787	16.817	VV	2113	33703	0.77%	0.040%
258	16.838	16.817	16.891	VV	2130	78790	1.80%	0.094%
259	16.922	16.891	16.928	VV	2087	40410	0.92%	0.048%
260	16.936	16.928	16.943	VV	2077	18225	0.42%	0.022%
261	16.980	16.943	17.014	VV	4133	120754	2.76%	0.143%
262	17.058	17.014	17.088	VV	3335	127248	2.91%	0.151%
263	17.150	17.088	17.173	VV	4107	171500	3.92%	0.204%
264	17.199	17.173	17.247	VV	7966	196991	4.50%	0.234%
265	17.261	17.247	17.270	VV	3018	40126	0.92%	0.048%
266	17.304	17.270	17.334	VV	6956	185507	4.24%	0.220%
267	17.385	17.334	17.441	VV	5204	285018	6.51%	0.338%
268	17.481	17.441	17.505	VV	5350	181413	4.15%	0.215%
269	17.519	17.505	17.549	VV	4949	119384	2.73%	0.142%
270	17.557	17.549	17.595	VV	4106	101601	2.32%	0.121%
271	17.634	17.595	17.662	VV	8976	204682	4.68%	0.243%
272	17.671	17.662	17.723	VV	2980	87478	2.00%	0.104%
273	17.768	17.723	17.884	VV	6135	241046	5.51%	0.286%
274	17.915	17.884	17.952	VV	9143	184908	4.22%	0.220%
275	17.971	17.952	17.989	VV	2240	37168	0.85%	0.044%
276	18.001	17.989	18.030	VV	1560	33589	0.77%	0.040%
277	18.057	18.030	18.096	VV	7803	138428	3.16%	0.164%
278	18.137	18.096	18.231	VV	6119	146110	3.34%	0.173%
279	18.292	18.231	18.414	VV	1181	71603	1.64%	0.085%
280	18.490	18.414	18.534	VV	16995	416705	9.52%	0.495%
281	18.557	18.534	18.584	PV	1988	25371	0.58%	0.030%
282	18.606	18.584	18.645	VV	1631	29054	0.66%	0.034%
283	18.663	18.645	18.701	VV	597	12859	0.29%	0.015%
284	18.732	18.701	18.787	VV	900	20635	0.47%	0.025%
285	18.814	18.787	18.829	PV	623	9224	0.21%	0.011%
286	18.864	18.829	18.927	VV	6847	129838	2.97%	0.154%
287	18.958	18.927	18.991	VV	962	20563	0.47%	0.024%
288	19.037	18.991	19.087	VV	31562	579181	13.23%	0.688%
289	19.117	19.087	19.140	VV	863	19197	0.44%	0.023%
290	19.151	19.140	19.171	VV	785	10246	0.23%	0.012%
291	19.202	19.171	19.213	VV	936	19343	0.44%	0.023%
292	19.249	19.213	19.314	VV	6594	150584	3.44%	0.179%
293	19.358	19.314	19.389	VV	1272	36723	0.84%	0.044%
294	19.400	19.389	19.418	VV	828	13272	0.30%	0.016%
295	19.552	19.418	19.598	VV	52099	1047623	23.94%	1.244%
296	19.624	19.598	19.651	VV	5194	97731	2.23%	0.116%
297	19.667	19.651	19.708	VV	2071	59235	1.35%	0.070%
298	19.742	19.708	19.754	VV	2085	50823	1.16%	0.060%
299	19.764	19.754	19.820	VV	2263	76821	1.76%	0.091%

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300	19.871	19.820	19.935	VV	2435	141486	3.23%	0.168%
301	19.989	19.935	20.002	VV	6605	145628	3.33%	0.173%
302	20.043	20.002	20.082	VV	81646	1685113	38.50%	2.001%
303	20.126	20.082	20.230	VV	17865	908477	20.76%	1.079%
304	20.256	20.230	20.283	VV	4417	126629	2.89%	0.150%
305	20.296	20.283	20.304	VV	3699	44649	1.02%	0.053%
306	20.342	20.304	20.384	VV	6368	222492	5.08%	0.264%
307	20.401	20.384	20.411	VV	3956	61888	1.41%	0.073%
308	20.437	20.411	20.448	VV	4161	92909	2.12%	0.110%
309	20.513	20.448	20.638	VV	98892	2361506	53.96%	2.804%
310	20.709	20.638	20.756	VV	5946	301104	6.88%	0.358%
311	20.793	20.756	20.828	VV	3544	140772	3.22%	0.167%
312	20.862	20.828	20.958	VV	3214	221922	5.07%	0.264%
313	21.040	20.958	21.100	VV	100089	2614195	59.73%	3.104%
314	21.123	21.100	21.174	VV	3676	130513	2.98%	0.155%
315	21.246	21.174	21.401	VV	4239	465922	10.65%	0.553%
316	21.528	21.401	21.598	VV	11675	880667	20.12%	1.046%
317	21.658	21.598	21.761	VV	93219	3034000	69.32%	3.603%
318	21.780	21.761	21.841	VV	1225	45194	1.03%	0.054%
319	21.845	21.841	21.856	VV	843	6616	0.15%	0.008%
320	21.904	21.856	21.973	VV	871	43240	0.99%	0.051%
321	21.985	21.973	21.998	VV	362	3588	0.08%	0.004%
322	22.019	21.998	22.031	VV	279	3780	0.09%	0.004%

Sum of corrected areas: 84216521

Aliphatic EPH 111424.M Sat Nov 16 10:02:29 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-20		SDG No.:	P4839	
Lab Sample ID:	P4839-12		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	79.2	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048751.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.70	J	0.38	0.84	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.64		0.43	1.26	mg/kg
Aromatic C16-C21	Aromatic C16-C21	13.9		1.21	2.10	mg/kg
Aromatic C21-C36	Aromatic C21-C36	6.28		2.52	3.36	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.1		40 - 140	102%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	45.2		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.9		40 - 140	54%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-12	Acq On:	15 Nov 2024 18:54
Client Sample ID:	EX-9-TPH-20	Operator:	YP/AJ
Data file:	FD048751.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	1589063	8.276	200	ug/ml
Aromatic C12-C16	5.806	8.411	19791008	102.832	300	ug/ml
Aromatic C16-C21	8.412	12.674	30716553	165.316	500	ug/ml
Aromatic C21-C36	12.675	18.081	11741973	74.68	800	ug/ml
Aromatic EPH	4.088	18.081	63838597	351.104		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	5163259	26.85		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	8999575	51.12		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5209606	45.23		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048751.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:54
Operator : YP/AJ
Sample : P4839-12
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-20

Integration File: sample.E
Quant Time: Nov 16 09:52:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.367	8999575	51.117 ug/ml
Spiked Amount 50.000		Recovery = 102.23%	
6) S 2-Flurobiphenyl (SURR)	8.217	5209606	45.234 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 90.47%	
11) S ortho-Terphenyl (SURR)	11.252	5163259	26.845 ug/ml
Spiked Amount 50.000		Recovery = 53.69%	
Target Compounds			

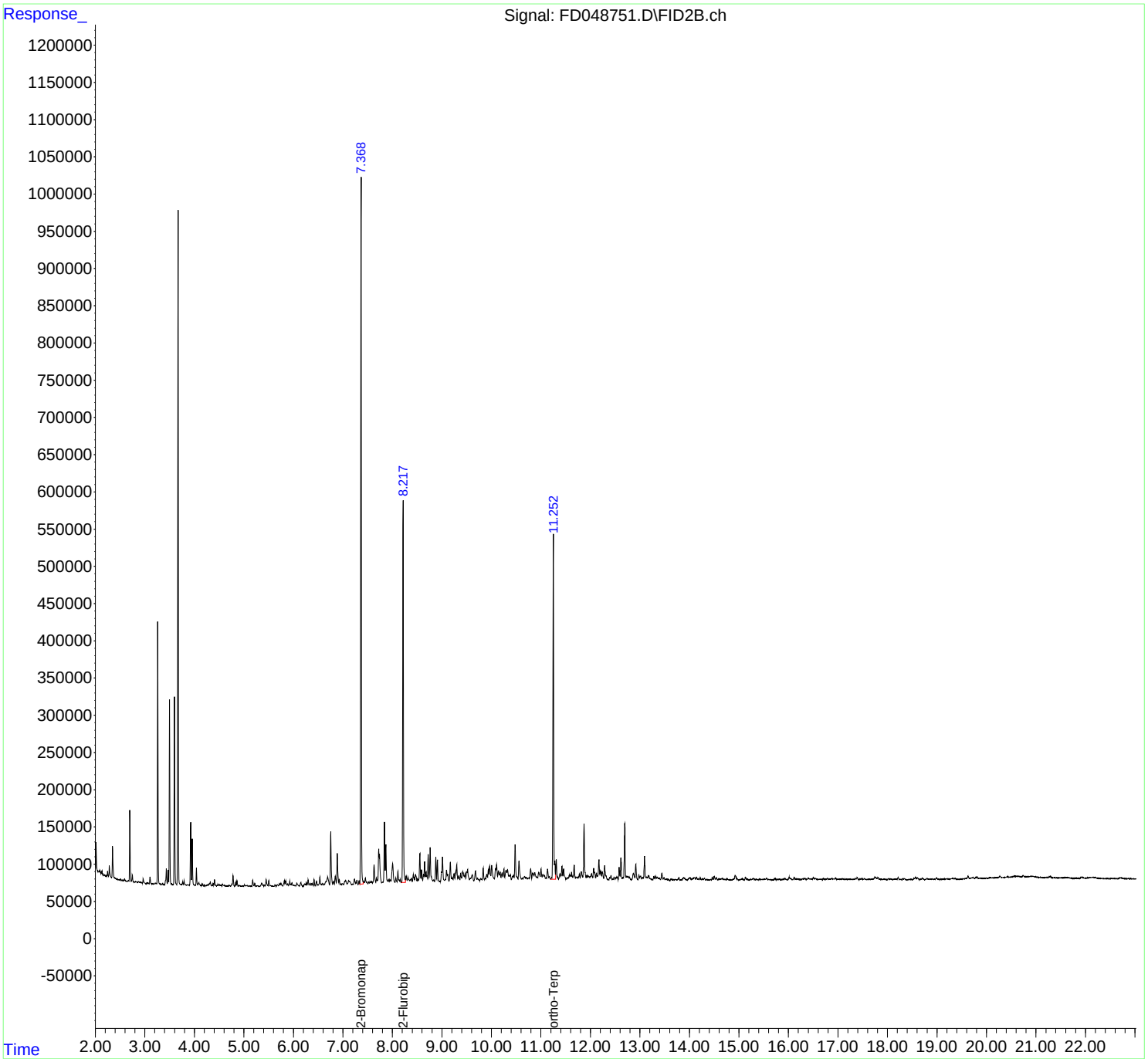
(f)=RT Delta > 1/2 Window (m)=manual int.

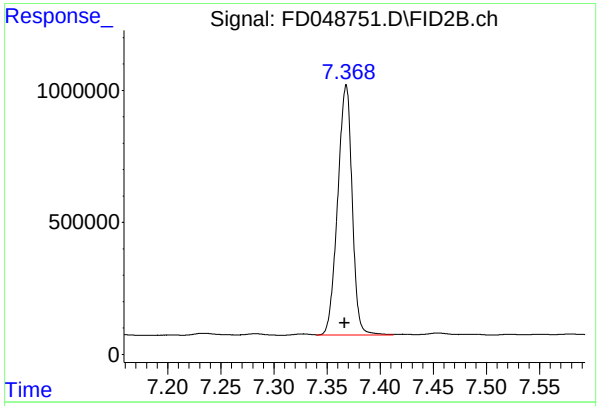
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048751.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:54
Operator : YP/AJ
Sample : P4839-12
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-20

Integration File: sample.E
Quant Time: Nov 16 09:52:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

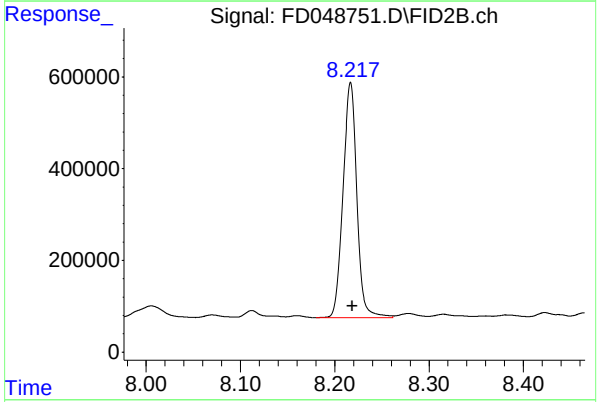




#4 2-Bromonaphthalene (SURR)

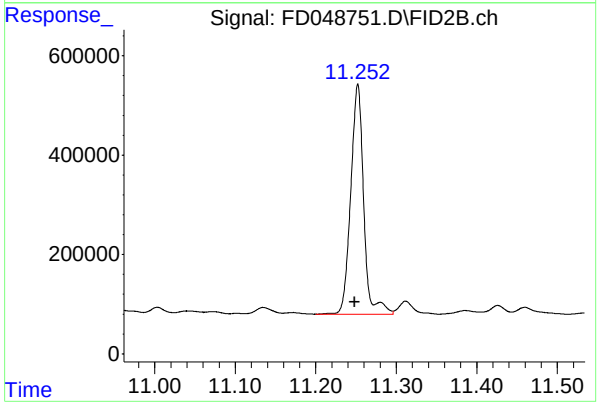
R.T.: 7.367 min
Delta R.T.: 0.001 min
Response: 8999575
Conc: 51.12 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-20



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: -0.002 min
Response: 5209606
Conc: 45.23 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: 0.003 min
Response: 5163259
Conc: 26.85 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048751.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:54
Sample : P4839-12
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.159	4.134	4.182	PV	2975	27045	0.30%	0.036%
2	4.196	4.182	4.222	PV	517	5115	0.06%	0.007%
3	4.241	4.222	4.248	VV	369	3940	0.04%	0.005%
4	4.269	4.248	4.283	VV	1849	21374	0.24%	0.029%
5	4.299	4.283	4.306	VV	2946	29010	0.32%	0.039%
6	4.322	4.306	4.357	VV	5267	68714	0.76%	0.092%
7	4.361	4.357	4.363	VV	541	2047	0.02%	0.003%
8	4.378	4.363	4.392	VV	3759	34447	0.38%	0.046%
9	4.407	4.392	4.452	VV	8543	92543	1.02%	0.124%
10	4.456	4.452	4.458	VV	301	1056	0.01%	0.001%
11	4.477	4.458	4.491	VV	2321	23066	0.25%	0.031%
12	4.504	4.491	4.519	VV	2114	22169	0.24%	0.030%
13	4.524	4.519	4.537	VV	1071	9815	0.11%	0.013%
14	4.542	4.537	4.551	VV	696	5124	0.06%	0.007%
15	4.568	4.551	4.587	VV	2063	29101	0.32%	0.039%
16	4.594	4.587	4.600	VV	971	7302	0.08%	0.010%
17	4.612	4.600	4.627	VV	1440	13614	0.15%	0.018%
18	4.636	4.627	4.662	VV	287	3100	0.03%	0.004%
19	4.678	4.662	4.689	PV	711	5725	0.06%	0.008%
20	4.703	4.689	4.733	VV	1109	14785	0.16%	0.020%
21	4.757	4.733	4.765	VV	3142	30201	0.33%	0.041%
22	4.781	4.765	4.811	VV	14504	163480	1.80%	0.220%
23	4.834	4.811	4.847	VV	5434	54829	0.60%	0.074%
24	4.861	4.847	4.882	VV	7854	82883	0.91%	0.111%
25	4.887	4.882	4.896	VV	896	6477	0.07%	0.009%
26	4.911	4.896	4.930	VV	1326	14759	0.16%	0.020%
27	4.937	4.930	4.959	PV	413	3576	0.04%	0.005%
28	4.972	4.959	4.988	VV	1062	10535	0.12%	0.014%
29	5.011	4.988	5.029	VV	2159	24949	0.27%	0.034%
30	5.041	5.029	5.058	VV	1125	17568	0.19%	0.024%
31	5.064	5.058	5.091	VV	1193	13550	0.15%	0.018%
32	5.108	5.091	5.133	VV	715	10644	0.12%	0.014%
33	5.146	5.133	5.158	VV	581	5218	0.06%	0.007%
34	5.178	5.158	5.204	VV	8449	98281	1.08%	0.132%
35	5.220	5.204	5.242	VV	4254	44405	0.49%	0.060%
36	5.256	5.242	5.265	VV	816	8572	0.09%	0.012%

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37	5.274	5.265	5.310	VV	1005	14505	0.16%	0.019%
38	5.361	5.310	5.381	VV	4846	82222	0.91%	0.110%
39	5.389	5.381	5.407	VV	2020	20969	0.23%	0.028%
40	5.419	5.407	5.432	VV	1367	15380	0.17%	0.021%
41	5.450	5.432	5.486	VV	9429	126877	1.40%	0.170%
42	5.503	5.486	5.527	VV	8133	88579	0.98%	0.119%
43	5.539	5.527	5.554	VV	1356	15930	0.18%	0.021%
44	5.560	5.554	5.575	VV	760	8082	0.09%	0.011%
45	5.585	5.575	5.609	VV	771	9055	0.10%	0.012%
46	5.630	5.609	5.653	PV	2440	27628	0.30%	0.037%
47	5.682	5.653	5.699	VV	2539	44002	0.48%	0.059%
48	5.720	5.699	5.735	VV	3910	52536	0.58%	0.071%
49	5.749	5.735	5.787	VV	4607	74279	0.82%	0.100%
50	5.817	5.787	5.830	VV	7872	107902	1.19%	0.145%
51	5.843	5.830	5.874	VV	7486	126494	1.39%	0.170%
52	5.885	5.874	5.902	VV	3719	45124	0.50%	0.061%
53	5.906	5.902	5.912	VV	2059	11335	0.12%	0.015%
54	5.927	5.912	5.943	VV	7056	75285	0.83%	0.101%
55	5.950	5.943	5.959	VV	2592	22628	0.25%	0.030%
56	5.970	5.959	5.995	VV	4851	60745	0.67%	0.082%
57	6.008	5.995	6.022	VV	1772	20225	0.22%	0.027%
58	6.025	6.022	6.044	VV	1081	11436	0.13%	0.015%
59	6.070	6.044	6.114	VV	4550	81103	0.89%	0.109%
60	6.151	6.114	6.198	VV	5326	93926	1.03%	0.126%
61	6.233	6.198	6.246	PV	3603	56639	0.62%	0.076%
62	6.265	6.246	6.279	VV	4647	60355	0.66%	0.081%
63	6.298	6.279	6.317	VV	8592	107208	1.18%	0.144%
64	6.338	6.317	6.357	VV	4070	64669	0.71%	0.087%
65	6.370	6.357	6.380	VV	3564	36949	0.41%	0.050%
66	6.387	6.380	6.403	VV	2968	29384	0.32%	0.039%
67	6.419	6.403	6.440	VV	9005	89277	0.98%	0.120%
68	6.468	6.440	6.485	VV	6388	90084	0.99%	0.121%
69	6.494	6.485	6.505	VV	2141	21461	0.24%	0.029%
70	6.535	6.505	6.565	VV	12326	169929	1.87%	0.228%
71	6.586	6.565	6.601	VV	3196	52071	0.57%	0.070%
72	6.616	6.601	6.630	VV	3246	40230	0.44%	0.054%
73	6.693	6.630	6.730	VV	12251	390998	4.31%	0.525%
74	6.755	6.730	6.793	VV	73149	846847	9.33%	1.138%
75	6.808	6.793	6.825	VV	6436	86255	0.95%	0.116%
76	6.847	6.825	6.867	VV	13286	198239	2.18%	0.266%
77	6.887	6.867	6.916	VV	43703	547885	6.03%	0.736%
78	6.928	6.916	6.954	VV	8741	113598	1.25%	0.153%
79	6.963	6.954	6.977	VV	2388	27377	0.30%	0.037%
80	6.992	6.977	7.013	VV	3287	53016	0.58%	0.071%
81	7.038	7.013	7.045	VV	6119	74423	0.82%	0.100%
82	7.056	7.045	7.086	VV	7312	127710	1.41%	0.172%
83	7.116	7.086	7.126	VV	6968	111270	1.23%	0.149%
84	7.133	7.126	7.175	VV	6183	125635	1.38%	0.169%
85	7.204	7.175	7.214	VV	2118	43511	0.48%	0.058%
86	7.234	7.214	7.267	VV	9041	160067	1.76%	0.215%
87	7.283	7.267	7.308	VV	7272	103527	1.14%	0.139%
88	7.327	7.308	7.342	VV	6659	84845	0.93%	0.114%
89	7.368	7.342	7.411	VV	953327	9080954	100.00%	12.199%

90	7.422	7.411	7.435	VV	5355	65182	0.72%	0.088%
91	7.454	7.435	7.474	VV	10026	156028	1.72%	0.210%
92	7.487	7.474	7.505	VV	5104	78749	0.87%	0.106%
93	7.523	7.505	7.535	VV	5071	67924	0.75%	0.091%
94	7.551	7.535	7.564	VV	5052	71591	0.79%	0.096%
95	7.580	7.564	7.601	VV	5750	104938	1.16%	0.141%
96	7.630	7.601	7.664	VV	27819	448473	4.94%	0.602%
97	7.678	7.664	7.691	VV	10659	123489	1.36%	0.166%
98	7.699	7.691	7.705	VV	7343	59934	0.66%	0.081%
99	7.724	7.705	7.733	VV	48846	488109	5.38%	0.656%
100	7.739	7.733	7.785	VV	42399	591735	6.52%	0.795%
101	7.800	7.785	7.814	VV	4588	69795	0.77%	0.094%
102	7.841	7.814	7.856	VV	85103	939885	10.35%	1.263%
103	7.868	7.856	7.893	VV	54921	639556	7.04%	0.859%
104	7.900	7.893	7.917	VV	7099	89024	0.98%	0.120%
105	7.932	7.917	7.945	VV	8259	111392	1.23%	0.150%
106	7.957	7.945	7.973	VV	7468	110312	1.21%	0.148%
107	8.006	7.973	8.054	VV	29296	665680	7.33%	0.894%
108	8.070	8.054	8.095	VV	9539	161786	1.78%	0.217%
109	8.112	8.095	8.148	VV	19074	304620	3.35%	0.409%
110	8.160	8.148	8.180	VV	7747	109303	1.20%	0.147%
111	8.217	8.180	8.262	VV	516371	5385935	59.31%	7.235%
112	8.278	8.262	8.300	VV	12530	207641	2.29%	0.279%
113	8.315	8.300	8.347	VV	10811	223137	2.46%	0.300%
114	8.360	8.347	8.368	VV	7040	82208	0.91%	0.110%
115	8.382	8.368	8.405	VV	9141	169901	1.87%	0.228%
116	8.423	8.405	8.450	VV	14341	262309	2.89%	0.352%
117	8.466	8.450	8.496	VV	13982	293591	3.23%	0.394%
118	8.508	8.496	8.521	VV	8802	106859	1.18%	0.144%
119	8.555	8.521	8.575	VV	42463	612765	6.75%	0.823%
120	8.589	8.575	8.612	VV	20492	288867	3.18%	0.388%
121	8.628	8.612	8.636	VV	14755	162214	1.79%	0.218%
122	8.651	8.636	8.668	VV	31390	393664	4.34%	0.529%
123	8.681	8.668	8.707	VV	17447	304478	3.35%	0.409%
124	8.724	8.707	8.741	VV	41187	469906	5.17%	0.631%
125	8.764	8.741	8.817	VV	50409	822522	9.06%	1.105%
126	8.835	8.817	8.852	VV	6883	124377	1.37%	0.167%
127	8.878	8.852	8.895	VV	37606	467198	5.14%	0.628%
128	8.911	8.895	8.951	VV	33745	449579	4.95%	0.604%
129	8.993	8.951	8.998	VV	17455	232074	2.56%	0.312%
130	9.013	8.998	9.053	VV	37726	557736	6.14%	0.749%
131	9.094	9.053	9.109	VV	19834	365252	4.02%	0.491%
132	9.119	9.109	9.144	VV	13934	209686	2.31%	0.282%
133	9.171	9.144	9.194	VV	30442	460471	5.07%	0.619%
134	9.207	9.194	9.225	VV	9203	157177	1.73%	0.211%
135	9.245	9.225	9.262	VV	14636	244328	2.69%	0.328%
136	9.280	9.262	9.286	VV	17185	201382	2.22%	0.271%
137	9.300	9.286	9.324	VV	26901	387789	4.27%	0.521%
138	9.341	9.324	9.363	VV	11666	225373	2.48%	0.303%
139	9.380	9.363	9.398	VV	15134	225430	2.48%	0.303%
140	9.420	9.398	9.459	VV	16753	467869	5.15%	0.629%
141	9.470	9.459	9.484	VV	14824	181783	2.00%	0.244%

142	9.502	9.484	9.509	VV	16944	209609	2.31%	0.282%
143	9.520	9.509	9.558	VV	20214	379052	4.17%	0.509%
144	9.571	9.558	9.576	VV	8064	84837	0.93%	0.114%
145	9.586	9.576	9.594	VV	8362	84726	0.93%	0.114%
146	9.617	9.594	9.644	VV	12675	294453	3.24%	0.396%
147	9.679	9.644	9.708	VV	18000	399377	4.40%	0.537%
148	9.722	9.708	9.767	VV	8466	231606	2.55%	0.311%
149	9.782	9.767	9.792	VV	7676	101498	1.12%	0.136%
150	9.797	9.792	9.813	VV	6984	83801	0.92%	0.113%
151	9.835	9.813	9.860	VV	21669	337240	3.71%	0.453%
152	9.907	9.860	9.923	VV	13412	357993	3.94%	0.481%
153	9.939	9.923	9.951	VV	20041	249422	2.75%	0.335%
154	9.966	9.951	9.988	VV	24606	408499	4.50%	0.549%
155	10.006	9.988	10.059	VV	25392	604124	6.65%	0.812%
156	10.085	10.059	10.093	VV	21157	301094	3.32%	0.404%
157	10.106	10.093	10.126	VV	26536	385107	4.24%	0.517%
158	10.142	10.126	10.163	VV	17922	322623	3.55%	0.433%
159	10.178	10.163	10.193	VV	16139	238014	2.62%	0.320%
160	10.218	10.193	10.236	VV	15068	309132	3.40%	0.415%
161	10.254	10.236	10.270	VV	20227	298946	3.29%	0.402%
162	10.294	10.270	10.312	VV	18285	376098	4.14%	0.505%
163	10.326	10.312	10.351	VV	19271	368620	4.06%	0.495%
164	10.362	10.351	10.372	VV	11280	134436	1.48%	0.181%
165	10.385	10.372	10.404	VV	12522	190642	2.10%	0.256%
166	10.445	10.404	10.460	VV	11363	307130	3.38%	0.413%
167	10.481	10.460	10.514	VV	53248	781234	8.60%	1.049%
168	10.520	10.514	10.537	VV	9704	118064	1.30%	0.159%
169	10.559	10.537	10.606	VV	30888	616560	6.79%	0.828%
170	10.622	10.606	10.636	VV	7673	122872	1.35%	0.165%
171	10.674	10.636	10.690	VV	9732	272612	3.00%	0.366%
172	10.702	10.690	10.724	VV	8789	156625	1.72%	0.210%
173	10.746	10.724	10.751	VV	7645	117952	1.30%	0.158%
174	10.759	10.751	10.766	VV	7864	69891	0.77%	0.094%
175	10.794	10.766	10.816	VV	19816	387012	4.26%	0.520%
176	10.832	10.816	10.841	VV	14627	184638	2.03%	0.248%
177	10.848	10.841	10.861	VV	13267	146501	1.61%	0.197%
178	10.877	10.861	10.904	VV	15023	312574	3.44%	0.420%
179	10.908	10.904	10.920	VV	9245	81845	0.90%	0.110%
180	10.928	10.920	10.936	VV	8671	82875	0.91%	0.111%
181	10.955	10.936	10.986	VV	15336	363335	4.00%	0.488%
182	11.003	10.986	11.024	VV	19864	315423	3.47%	0.424%
183	11.041	11.024	11.061	VV	12565	248831	2.74%	0.334%
184	11.073	11.061	11.093	VV	10985	178788	1.97%	0.240%
185	11.102	11.093	11.112	VV	7884	84146	0.93%	0.113%
186	11.135	11.112	11.159	VV	19403	359755	3.96%	0.483%
187	11.171	11.159	11.201	VV	9197	191634	2.11%	0.257%
188	11.252	11.201	11.273	VV	468772	5183464	57.08%	6.963%
189	11.280	11.273	11.296	VV	29821	315316	3.47%	0.424%
190	11.312	11.296	11.355	VV	32022	532700	5.87%	0.716%
191	11.386	11.355	11.404	VV	13230	289991	3.19%	0.390%
192	11.426	11.404	11.444	VV	23381	362449	3.99%	0.487%
193	11.460	11.444	11.514	VV	19641	462627	5.09%	0.621%
194	11.535	11.514	11.549	VV	8019	147689	1.63%	0.198%

195	11.583	11.549	11.603	VV	11621	304246	3.35%	0.409%
196	11.619	11.603	11.644	VV	14428	264439	2.91%	0.355%
197	11.673	11.644	11.695	VV	24206	426710	4.70%	0.573%
198	11.705	11.695	11.710	VV	8167	68092	0.75%	0.091%
199	11.719	11.710	11.734	VV	7993	109740	1.21%	0.147%
200	11.778	11.734	11.793	VV	12730	316151	3.48%	0.425%
201	11.815	11.793	11.846	VV	15137	355060	3.91%	0.477%
202	11.874	11.846	11.913	VV	79968	1182614	13.02%	1.589%
203	11.926	11.913	11.941	VV	10448	151809	1.67%	0.204%
204	11.954	11.941	11.967	VV	10311	150204	1.65%	0.202%
205	11.972	11.967	11.986	VV	8997	95269	1.05%	0.128%
206	12.000	11.986	12.006	VV	9163	100624	1.11%	0.135%
207	12.023	12.006	12.048	VV	12637	251104	2.77%	0.337%
208	12.067	12.048	12.080	VV	20057	276048	3.04%	0.371%
209	12.085	12.080	12.104	VV	14494	165802	1.83%	0.223%
210	12.122	12.104	12.137	VV	13353	204808	2.26%	0.275%
211	12.173	12.137	12.193	VV	31411	557871	6.14%	0.749%
212	12.208	12.193	12.225	VV	16612	268978	2.96%	0.361%
213	12.239	12.225	12.268	VV	14769	292256	3.22%	0.393%
214	12.288	12.268	12.364	VV	23394	566170	6.23%	0.761%
215	12.392	12.364	12.402	VV	6873	128998	1.42%	0.173%
216	12.416	12.402	12.442	VV	9737	171578	1.89%	0.230%
217	12.455	12.442	12.462	VV	5307	57283	0.63%	0.077%
218	12.480	12.462	12.500	VV	7836	145219	1.60%	0.195%
219	12.532	12.500	12.562	VV	7734	243037	2.68%	0.326%
220	12.581	12.562	12.598	VV	20952	277596	3.06%	0.373%
221	12.617	12.598	12.640	VV	33409	445359	4.90%	0.598%
222	12.656	12.640	12.667	VV	7189	102791	1.13%	0.138%
223	12.693	12.667	12.717	VV	79822	1061202	11.69%	1.426%
224	12.739	12.717	12.750	VV	8557	159472	1.76%	0.214%
225	12.761	12.750	12.786	VV	8336	161628	1.78%	0.217%
226	12.793	12.786	12.818	VV	6633	107515	1.18%	0.144%
227	12.824	12.818	12.832	VV	4135	31873	0.35%	0.043%
228	12.868	12.832	12.896	VV	12292	334652	3.69%	0.450%
229	12.918	12.896	12.960	VV	24665	428767	4.72%	0.576%
230	12.980	12.960	12.995	VV	9963	146186	1.61%	0.196%
231	13.012	12.995	13.037	VV	8789	187184	2.06%	0.251%
232	13.056	13.037	13.068	VV	7071	111292	1.23%	0.150%
233	13.093	13.068	13.122	VV	35618	529259	5.83%	0.711%
234	13.135	13.122	13.150	VV	7370	113479	1.25%	0.152%
235	13.176	13.150	13.200	VV	9345	220516	2.43%	0.296%
236	13.210	13.200	13.230	VV	5421	86711	0.95%	0.116%
237	13.244	13.230	13.259	VV	4219	65348	0.72%	0.088%
238	13.281	13.259	13.302	VV	8066	154761	1.70%	0.208%
239	13.318	13.302	13.335	VV	8389	130657	1.44%	0.176%
240	13.349	13.335	13.374	VV	7202	143306	1.58%	0.193%
241	13.393	13.374	13.416	VV	5385	122692	1.35%	0.165%
242	13.443	13.416	13.466	VV	12379	217732	2.40%	0.292%
243	13.487	13.466	13.509	VV	6567	130179	1.43%	0.175%
244	13.532	13.509	13.564	VV	4317	128684	1.42%	0.173%
245	13.574	13.564	13.603	VV	3737	72840	0.80%	0.098%
246	13.625	13.603	13.639	VV	4450	72804	0.80%	0.098%

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247	13.645	13.639	13.665	VV	3833	54905	0.60%	0.074%
248	13.679	13.665	13.694	VV	3433	56424	0.62%	0.076%
249	13.710	13.694	13.722	VV	3902	59066	0.65%	0.079%
250	13.731	13.722	13.749	VV	3745	52329	0.58%	0.070%
251	13.787	13.749	13.814	VV	6043	156160	1.72%	0.210%
252	13.828	13.814	13.850	VV	3287	67853	0.75%	0.091%
253	13.882	13.850	13.948	VV	6189	260170	2.87%	0.350%
254	13.951	13.948	13.963	VV	2876	25695	0.28%	0.035%
255	13.986	13.963	13.993	VV	5064	77239	0.85%	0.104%
256	14.010	13.993	14.052	VV	6013	158725	1.75%	0.213%
257	14.068	14.052	14.074	VV	4878	58663	0.65%	0.079%
258	14.103	14.074	14.125	VV	6073	159419	1.76%	0.214%
259	14.144	14.125	14.163	VV	6417	111013	1.22%	0.149%
260	14.177	14.163	14.196	VV	4236	72104	0.79%	0.097%
261	14.215	14.196	14.245	VV	5582	116743	1.29%	0.157%
262	14.263	14.245	14.284	VV	4330	86146	0.95%	0.116%
263	14.304	14.284	14.332	VV	5002	107197	1.18%	0.144%
264	14.351	14.332	14.359	VV	3129	48619	0.54%	0.065%
265	14.367	14.359	14.378	VV	3008	30108	0.33%	0.040%
266	14.388	14.378	14.395	VV	2826	27815	0.31%	0.037%
267	14.400	14.395	14.415	VV	2712	30121	0.33%	0.040%
268	14.431	14.415	14.445	VV	3153	50585	0.56%	0.068%
269	14.462	14.445	14.480	VV	6074	89720	0.99%	0.121%
270	14.499	14.480	14.524	VV	7442	134599	1.48%	0.181%
271	14.541	14.524	14.564	VV	5498	99260	1.09%	0.133%
272	14.602	14.564	14.617	VV	3973	102013	1.12%	0.137%
273	14.663	14.617	14.690	VV	4478	160206	1.76%	0.215%
274	14.701	14.690	14.705	VV	3235	26697	0.29%	0.036%
275	14.709	14.705	14.722	VV	3109	30011	0.33%	0.040%
276	14.727	14.722	14.739	VV	2850	28994	0.32%	0.039%
277	14.762	14.739	14.797	VV	4177	106127	1.17%	0.143%
278	14.805	14.797	14.826	VV	2516	40745	0.45%	0.055%
279	14.837	14.826	14.858	VV	2414	42595	0.47%	0.057%
280	14.892	14.858	14.900	VV	3292	68907	0.76%	0.093%
281	14.922	14.900	14.995	VV	8518	263130	2.90%	0.353%
282	15.029	14.995	15.035	VV	2664	56404	0.62%	0.076%
283	15.042	15.035	15.047	VV	2872	19802	0.22%	0.027%
284	15.071	15.047	15.105	VV	3810	99253	1.09%	0.133%
285	15.131	15.105	15.154	VV	6246	112370	1.24%	0.151%
286	15.170	15.154	15.198	VV	3520	72125	0.79%	0.097%
287	15.202	15.198	15.219	VV	2068	25014	0.28%	0.034%
288	15.237	15.219	15.255	VV	2757	53417	0.59%	0.072%
289	15.287	15.255	15.342	VV	3791	149548	1.65%	0.201%
290	15.352	15.342	15.367	VV	2832	38875	0.43%	0.052%
291	15.372	15.367	15.391	VV	2502	34289	0.38%	0.046%
292	15.411	15.391	15.440	VV	2641	72537	0.80%	0.097%
293	15.447	15.440	15.467	VV	2589	37960	0.42%	0.051%
294	15.483	15.467	15.500	VV	2644	45468	0.50%	0.061%
295	15.516	15.500	15.531	VV	2970	48078	0.53%	0.065%
296	15.556	15.531	15.579	VV	4210	87003	0.96%	0.117%
297	15.598	15.579	15.611	VV	2403	42372	0.47%	0.057%
298	15.625	15.611	15.677	VV	2323	75279	0.83%	0.101%
299	15.728	15.677	15.753	VV	3389	101611	1.12%	0.137%

300	15.775	15.753	15.794	VV	2522	50786	0.56%	0.068%
301	15.814	15.794	15.852	VV	2694	77600	0.85%	0.104%
302	15.881	15.852	15.896	VV	2373	52122	0.57%	0.070%
303	15.930	15.896	15.964	VV	3570	102626	1.13%	0.138%
304	15.985	15.964	15.990	VV	1993	29092	0.32%	0.039%
305	16.013	15.990	16.034	VV	5295	94404	1.04%	0.127%
306	16.048	16.034	16.080	VV	3280	68991	0.76%	0.093%
307	16.114	16.080	16.142	VV	4644	106312	1.17%	0.143%
308	16.147	16.142	16.156	VV	2379	19328	0.21%	0.026%
309	16.174	16.156	16.194	VV	2872	54348	0.60%	0.073%
310	16.198	16.194	16.217	VV	2314	27722	0.31%	0.037%
311	16.233	16.217	16.261	VV	2222	49889	0.55%	0.067%
312	16.296	16.261	16.310	VV	3249	72270	0.80%	0.097%
313	16.330	16.310	16.375	VV	3796	95464	1.05%	0.128%
314	16.395	16.375	16.430	VV	3782	91718	1.01%	0.123%
315	16.435	16.430	16.457	VV	2503	34421	0.38%	0.046%
316	16.469	16.457	16.482	VV	2387	33172	0.37%	0.045%
317	16.502	16.482	16.530	VV	4440	91674	1.01%	0.123%
318	16.546	16.530	16.566	VV	3342	57452	0.63%	0.077%
319	16.579	16.566	16.596	VV	2109	31776	0.35%	0.043%
320	16.615	16.596	16.624	VV	1932	27732	0.31%	0.037%
321	16.627	16.624	16.633	VV	1635	9286	0.10%	0.012%
322	16.639	16.633	16.657	VV	1747	23525	0.26%	0.032%
323	16.675	16.657	16.686	VV	1768	28464	0.31%	0.038%
324	16.707	16.686	16.727	VV	2892	52751	0.58%	0.071%
325	16.735	16.727	16.752	VV	1745	23260	0.26%	0.031%
326	16.786	16.752	16.808	VV	2689	65227	0.72%	0.088%
327	16.821	16.808	16.826	VV	1852	18246	0.20%	0.025%
328	16.829	16.826	16.848	VV	1805	21612	0.24%	0.029%
329	16.879	16.848	16.902	VV	2768	69159	0.76%	0.093%
330	16.915	16.902	16.932	VV	1999	33361	0.37%	0.045%
331	16.953	16.932	16.972	VV	3028	54541	0.60%	0.073%
332	16.979	16.972	17.000	VV	1840	27049	0.30%	0.036%
333	17.014	17.000	17.020	VV	1701	18586	0.20%	0.025%
334	17.025	17.020	17.038	VV	1724	18007	0.20%	0.024%
335	17.055	17.038	17.070	VV	1722	30581	0.34%	0.041%
336	17.085	17.070	17.089	VV	2052	20001	0.22%	0.027%
337	17.095	17.089	17.137	VV	2137	42362	0.47%	0.057%
338	17.160	17.137	17.183	VV	1761	40622	0.45%	0.055%
339	17.190	17.183	17.213	VV	1578	23034	0.25%	0.031%
340	17.229	17.213	17.234	VV	1764	18868	0.21%	0.025%
341	17.237	17.234	17.272	VV	1578	27850	0.31%	0.037%
342	17.277	17.272	17.285	VV	1184	8862	0.10%	0.012%
343	17.298	17.285	17.303	VV	1213	11587	0.13%	0.016%
344	17.355	17.303	17.365	VV	2147	55537	0.61%	0.075%
345	17.387	17.365	17.412	VV	3769	66154	0.73%	0.089%
346	17.429	17.412	17.433	VV	1295	15304	0.17%	0.021%
347	17.446	17.433	17.457	VV	1439	18154	0.20%	0.024%
348	17.476	17.457	17.513	VV	1870	51075	0.56%	0.069%
349	17.532	17.513	17.580	VV	1948	47951	0.53%	0.064%
350	17.604	17.580	17.636	VV	1147	30365	0.33%	0.041%
351	17.639	17.636	17.642	VV	972	3475	0.04%	0.005%

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352	17.684	17.642	17.689	VV	1374	31141	0.34%	0.042%
353	17.710	17.689	17.716	VV	1344	20985	0.23%	0.028%
354	17.746	17.716	17.788	VV	4139	113153	1.25%	0.152%
355	17.806	17.788	17.839	VV	3373	61645	0.68%	0.083%
356	17.851	17.839	17.876	VV	1512	24693	0.27%	0.033%
357	17.880	17.876	17.899	VV	786	9503	0.10%	0.013%
358	17.927	17.899	17.982	VV	1279	35288	0.39%	0.047%
359	18.017	17.982	18.045	VV	1674	33599	0.37%	0.045%
360	18.054	18.045	18.077	VV	1250	17964	0.20%	0.024%
361	18.088	18.077	18.107	VV	896	10708	0.12%	0.014%
362	18.128	18.107	18.133	PV	484	5885	0.06%	0.008%
363	18.154	18.133	18.188	VV	685	14742	0.16%	0.020%

Sum of corrected areas: 74439334

Aromatic EPH 111424.M Sat Nov 16 10:30:13 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-21			SDG No.:	P4839
Lab Sample ID:	P4839-13			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	80.6
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 11:41	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	39.6		5	2.35	6.19	mg/kg	FC067802.D
Aliphatic C12-C16	Aliphatic C12-C16	46.1		5	1.49	4.13	mg/kg	FC067802.D
Aliphatic C16-C21	Aliphatic C16-C21	3.26		1	0.37	1.24	mg/kg	FC067783.D
Aliphatic C21-C28	Aliphatic C21-C28	0.99	U	1	0.99	1.65	mg/kg	FC067783.D
Aliphatic C28-C40	Aliphatic C28-C40	16.7		1	2.23	2.48	mg/kg	FC067783.D
Aromatic C12-C16	Aromatic C12-C16	22.4		1	0.42	1.24	mg/kg	FD048752.D
Aromatic C16-C21	Aromatic C16-C21	5.59		1	1.19	2.06	mg/kg	FD048752.D
Aromatic C21-C36	Aromatic C21-C36	2.48	U	1	2.48	3.30	mg/kg	FD048752.D
Total AliphaticEPH	Total AliphaticEPH	106			7.43	15.7	mg/kg	
Total AromaticEPH	Total AromaticEPH	49.3			4.83	8.25	mg/kg	
Total EPH	Total EPH	155			12.3	23.9	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-9-TPH-21			SDG No.:	P4839
Lab Sample ID:	P4839-13			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	80.6
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/18/24 11:41	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	39.6		5	2.35	6.19	mg/kg	FC067802.D
Aliphatic C12-C16	Aliphatic C12-C16	46.1		5	1.49	4.13	mg/kg	FC067802.D
Aliphatic C16-C21	Aliphatic C16-C21	3.26		1	0.37	1.24	mg/kg	FC067783.D
Aliphatic C21-C28	Aliphatic C21-C28	0.99	U	1	0.99	1.65	mg/kg	FC067783.D
Aliphatic C28-C40	Aliphatic C28-C40	16.7		1	2.23	2.48	mg/kg	FC067783.D
Aromatic C10-C12	Aromatic C10-C12	21.3		2	0.74	1.65	mg/kg	FD048759.D
Aromatic C12-C16	Aromatic C12-C16	22.4		1	0.42	1.24	mg/kg	FD048752.D
Aromatic C16-C21	Aromatic C16-C21	5.59		1	1.19	2.06	mg/kg	FD048752.D
Aromatic C21-C36	Aromatic C21-C36	2.48	U	1	2.48	3.30	mg/kg	FD048752.D
Total AliphaticEPH	Total AliphaticEPH	106			7.43	15.7	mg/kg	
Total AromaticEPH	Total AromaticEPH	49.3			4.83	8.25	mg/kg	
Total EPH	Total EPH	155			12.3	23.9	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-21		SDG No.:	P4839	
Lab Sample ID:	P4839-13		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	80.6	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067783.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	36.0	E	0.47	1.24	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	42.1	E	0.30	0.83	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	3.26		0.37	1.24	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.99	U	0.99	1.65	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.7		2.23	2.48	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.6		40 - 140	57%	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:	P4839-13	Acq On:	15 Nov 2024 19:31
Client Sample ID:	EX-9-TPH-21	Operator:	YP/AJ
Data file:	FC067783.D	Misc:	
Instrument:	FID_C	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	191480411	1190		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4148817	28.58		ug/ml
Aliphatic C9-C12	3.172	6.448	72282311	435.984	300	ug/ml
Aliphatic C12-C16	6.449	9.838	86979722	510.491	200	ug/ml
Aliphatic C16-C21	9.839	13.196	6690721	39.445	300	ug/ml
Aliphatic C21-C28	13.197	16.850	989874	6.294	400	ug/ml
Aliphatic C28-C40	16.851	21.693	24537783	202.605	600	ug/ml
Aliphatic C9-C28	3.172	16.850	166942628	992.214	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067783.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 19:31
Operator : YP/AJ
Sample : P4839-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-21

Integration File: autoint1.e
Quant Time: Nov 16 08:25:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.929	4148817	28.581 ug/ml
Spiked Amount 50.000		Recovery = 57.16%	
Target Compounds			

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

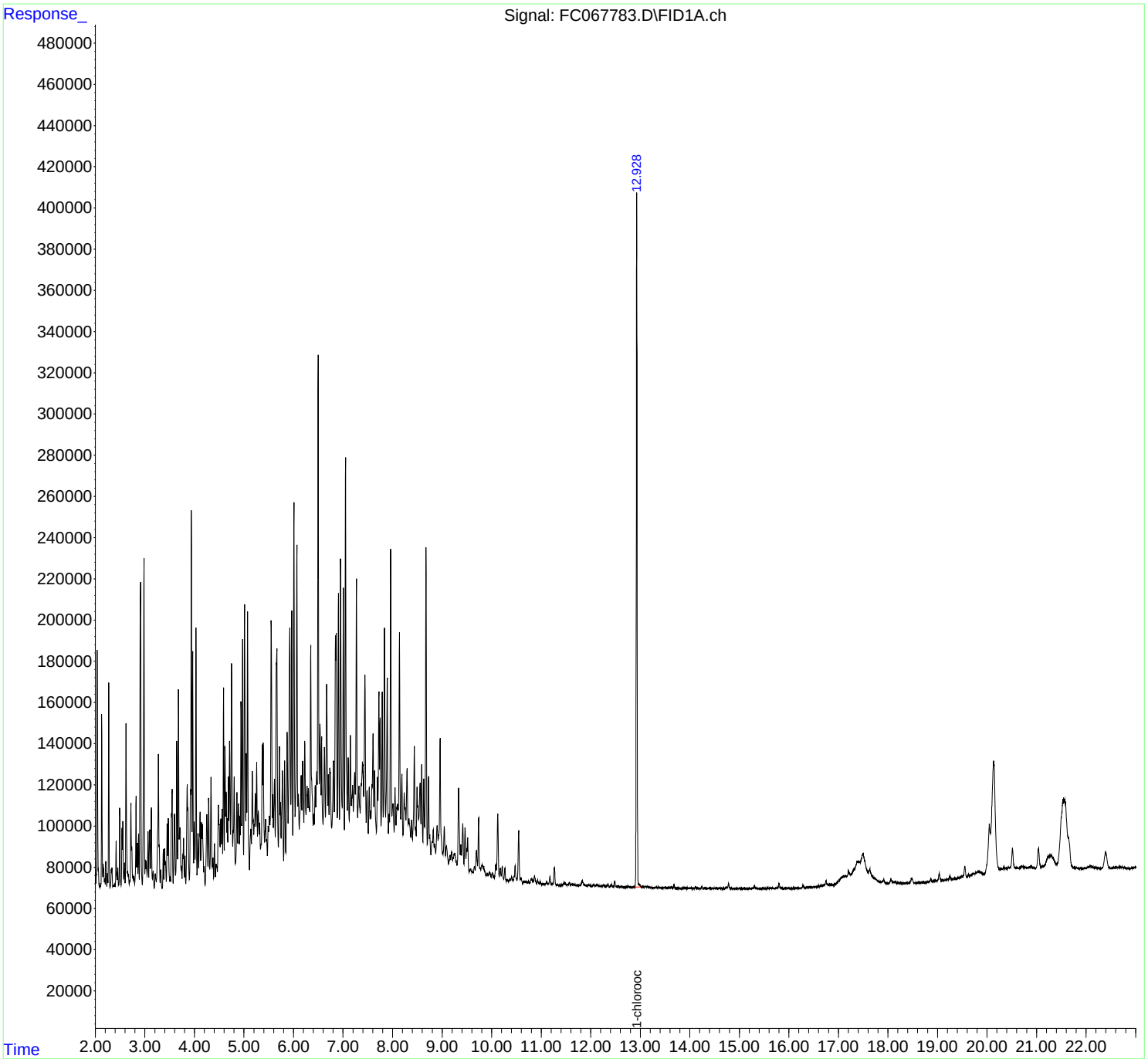
Quantitation Report (QT Reviewed)

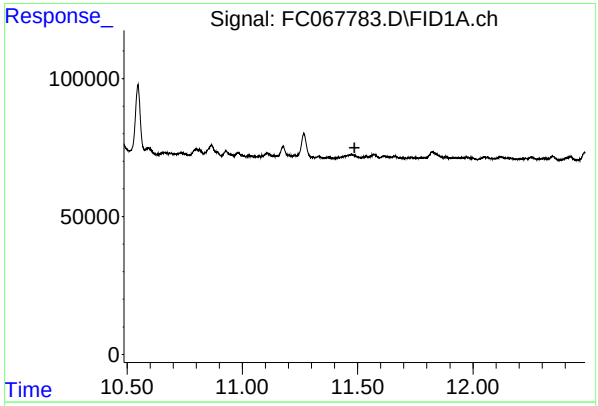
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067783.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 19:31
Operator : YP/AJ
Sample : P4839-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-21

Integration File: autoint1.e
Quant Time: Nov 16 08:25:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

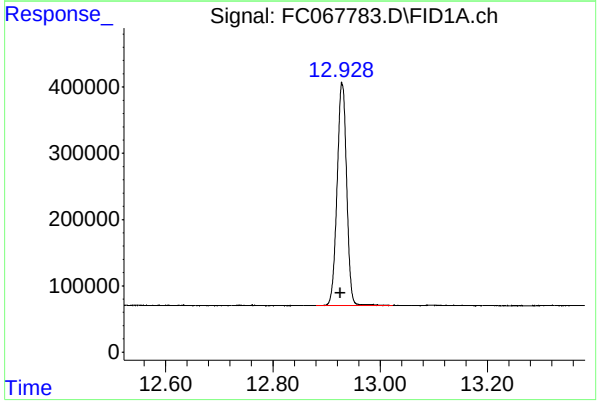




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-21



#12 1-chlorooctadecane (SURR)

R.T.: 12.929 min
Delta R.T.: 0.003 min
Response: 4148817
Conc: 28.58 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067783.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 19:31
Sample : P4839-13
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.273	3.225	3.306	BV	62394	929256	18.51%	0.471%
2	3.319	3.306	3.348	VV	8121	90766	1.81%	0.046%
3	3.371	3.348	3.383	PV	18701	160063	3.19%	0.081%
4	3.396	3.383	3.432	VV	19363	335724	6.69%	0.170%
5	3.449	3.432	3.460	VV	31182	300936	5.99%	0.153%
6	3.473	3.460	3.502	VV	33659	424931	8.46%	0.216%
7	3.549	3.502	3.570	VV	47720	823896	16.41%	0.418%
8	3.597	3.570	3.619	VV	36008	532338	10.60%	0.270%
9	3.643	3.619	3.661	VV	70587	775260	15.44%	0.393%
10	3.678	3.661	3.749	VV	96144	1582089	31.51%	0.802%
11	3.781	3.749	3.796	VV	24628	401853	8.00%	0.204%
12	3.809	3.796	3.825	VV	15747	159500	3.18%	0.081%
13	3.854	3.825	3.898	VV	50353	1043599	20.78%	0.529%
14	3.938	3.898	3.952	VV	183056	2165876	43.13%	1.099%
15	3.965	3.952	3.984	VV	114567	1116064	22.23%	0.566%
16	3.997	3.984	4.012	VV	31987	365544	7.28%	0.185%
17	4.032	4.012	4.053	VV	126188	1264822	25.19%	0.642%
18	4.071	4.053	4.085	VV	26602	321919	6.41%	0.163%
19	4.114	4.085	4.127	VV	37256	600676	11.96%	0.305%
20	4.141	4.127	4.216	VV	32222	935392	18.63%	0.474%
21	4.250	4.216	4.271	VV	35752	625243	12.45%	0.317%
22	4.288	4.271	4.310	VV	43828	542577	10.81%	0.275%
23	4.335	4.310	4.360	VV	54042	762304	15.18%	0.387%
24	4.373	4.360	4.388	VV	15053	182466	3.63%	0.093%
25	4.404	4.388	4.424	VV	21828	274267	5.46%	0.139%
26	4.438	4.424	4.462	VV	11751	225918	4.50%	0.115%
27	4.483	4.462	4.517	VV	39382	893623	17.80%	0.453%
28	4.533	4.517	4.545	VV	33762	440863	8.78%	0.224%
29	4.558	4.545	4.571	VV	38601	471920	9.40%	0.239%
30	4.588	4.571	4.603	VV	97028	982896	19.57%	0.499%
31	4.617	4.603	4.631	VV	68434	803210	16.00%	0.407%
32	4.641	4.631	4.656	VV	46783	574658	11.44%	0.291%
33	4.663	4.656	4.672	VV	33792	291533	5.81%	0.148%
34	4.685	4.672	4.695	VV	54080	560756	11.17%	0.284%
35	4.710	4.695	4.728	VV	71151	957343	19.06%	0.486%
36	4.750	4.728	4.773	VV	108717	1641210	32.68%	0.832%

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37	4.803	4.773	4.828	VV	54188	964661	19.21%	0.489%
38	4.858	4.828	4.872	VV	46516	689790	13.74%	0.350%
39	4.888	4.872	4.906	VV	40946	671990	13.38%	0.341%
40	4.941	4.906	4.956	VV	90516	1393659	27.75%	0.707%
41	4.973	4.956	4.993	VV	120521	1374970	27.38%	0.697%
42	5.012	4.993	5.036	VV	137650	1882534	37.49%	0.955%
43	5.048	5.036	5.058	VV	65333	657384	13.09%	0.333%
44	5.073	5.058	5.111	VV	133715	1692159	33.70%	0.858%
45	5.138	5.111	5.150	VV	28778	525239	10.46%	0.266%
46	5.169	5.150	5.199	VV	56402	1069404	21.30%	0.542%
47	5.230	5.199	5.242	VV	45975	918537	18.29%	0.466%
48	5.257	5.242	5.274	VV	60791	802970	15.99%	0.407%
49	5.289	5.274	5.307	VV	37125	647345	12.89%	0.328%
50	5.317	5.307	5.335	VV	31921	431722	8.60%	0.219%
51	5.369	5.335	5.379	VV	69638	1000761	19.93%	0.508%
52	5.389	5.379	5.416	VV	70623	1010230	20.12%	0.512%
53	5.438	5.416	5.473	VV	33627	862021	17.17%	0.437%
54	5.512	5.473	5.525	VV	35337	883956	17.60%	0.448%
55	5.551	5.525	5.593	VV	128971	2603196	51.84%	1.320%
56	5.615	5.593	5.631	VV	53139	906511	18.05%	0.460%
57	5.663	5.631	5.694	VV	114809	2569459	51.17%	1.303%
58	5.715	5.694	5.749	VV	68647	1363558	27.15%	0.692%
59	5.777	5.749	5.801	VV	57257	1140188	22.71%	0.578%
60	5.822	5.801	5.843	VV	61976	894236	17.81%	0.454%
61	5.872	5.843	5.892	VV	76248	1349880	26.88%	0.685%
62	5.925	5.892	5.947	VV	125933	2548835	50.76%	1.293%
63	5.965	5.947	5.986	VV	134047	1693946	33.73%	0.859%
64	6.009	5.986	6.034	VV	186159	2537904	50.54%	1.287%
65	6.069	6.034	6.088	VV	166031	2569991	51.18%	1.303%
66	6.098	6.088	6.117	VV	45775	676811	13.48%	0.343%
67	6.155	6.117	6.169	VV	54882	1304737	25.98%	0.662%
68	6.185	6.169	6.209	VV	61620	1154732	23.00%	0.586%
69	6.228	6.209	6.253	VV	71540	1315261	26.19%	0.667%
70	6.274	6.253	6.290	VV	49558	980341	19.52%	0.497%
71	6.302	6.290	6.327	VV	48549	926382	18.45%	0.470%
72	6.348	6.327	6.397	VV	117601	2481925	49.43%	1.259%
73	6.408	6.397	6.419	VV	36136	441992	8.80%	0.224%
74	6.438	6.419	6.450	VV	49807	781803	15.57%	0.397%
75	6.469	6.450	6.477	VV	56270	798236	15.90%	0.405%
76	6.498	6.477	6.521	VV	259614	3363009	66.97%	1.706%
77	6.536	6.521	6.555	VV	78876	1309629	26.08%	0.664%
78	6.568	6.555	6.596	VV	73485	1195577	23.81%	0.606%
79	6.625	6.596	6.646	VV	68442	1446358	28.80%	0.734%
80	6.670	6.646	6.694	VV	98192	1917709	38.19%	0.973%
81	6.705	6.694	6.718	VV	54931	655325	13.05%	0.332%
82	6.735	6.718	6.771	VV	58216	1464562	29.17%	0.743%
83	6.807	6.771	6.825	VV	62065	1414074	28.16%	0.717%
84	6.863	6.825	6.885	VV	125040	3060321	60.94%	1.552%
85	6.907	6.885	6.929	VV	143446	2029051	40.41%	1.029%
86	6.951	6.929	6.983	VV	159626	2602896	51.84%	1.320%
87	7.008	6.983	7.028	VV	146000	2053098	40.89%	1.041%
88	7.050	7.028	7.087	VV	208462	3169969	63.13%	1.608%
89	7.105	7.087	7.125	VV	63363	1083576	21.58%	0.550%

90	7.149	7.125	7.167	VV	74342	1302774	25.94%	0.661%
91	7.193	7.167	7.209	VV	50023	1108970	22.08%	0.562%
92	7.235	7.209	7.248	VV	56256	1134966	22.60%	0.576%
93	7.271	7.248	7.296	VV	149278	2286740	45.54%	1.160%
94	7.321	7.296	7.347	VV	49815	1276573	25.42%	0.647%
95	7.394	7.347	7.417	VV	60986	2175227	43.32%	1.103%
96	7.443	7.417	7.469	VV	103678	2073173	41.29%	1.051%
97	7.485	7.469	7.510	VV	47383	910827	18.14%	0.462%
98	7.530	7.510	7.547	VV	49520	870955	17.34%	0.442%
99	7.557	7.547	7.568	VV	37576	448381	8.93%	0.227%
100	7.607	7.568	7.623	VV	75061	1762394	35.10%	0.894%
101	7.636	7.623	7.675	VV	57525	1276165	25.41%	0.647%
102	7.696	7.675	7.707	VV	53927	803140	15.99%	0.407%
103	7.725	7.707	7.738	VV	95242	1346837	26.82%	0.683%
104	7.749	7.738	7.769	VV	82840	1092023	21.75%	0.554%
105	7.792	7.769	7.812	VV	94517	1472091	29.32%	0.747%
106	7.837	7.812	7.861	VV	126389	2050221	40.83%	1.040%
107	7.892	7.861	7.916	VV	101146	1854583	36.93%	0.941%
108	7.932	7.916	7.940	VV	36018	461647	9.19%	0.234%
109	7.963	7.940	7.988	VV	163139	2321720	46.24%	1.178%
110	8.008	7.988	8.032	VV	41137	979217	19.50%	0.497%
111	8.051	8.032	8.071	VV	48553	870977	17.35%	0.442%
112	8.101	8.071	8.115	VV	41093	1002792	19.97%	0.509%
113	8.140	8.115	8.167	VV	122860	2027333	40.37%	1.028%
114	8.188	8.167	8.213	VV	55243	1084264	21.59%	0.550%
115	8.236	8.213	8.270	VV	46058	1283657	25.56%	0.651%
116	8.293	8.270	8.318	VV	58327	1231918	24.53%	0.625%
117	8.332	8.318	8.367	VV	33944	908951	18.10%	0.461%
118	8.385	8.367	8.402	VV	33301	594898	11.85%	0.302%
119	8.440	8.402	8.477	VV	69046	1709280	34.04%	0.867%
120	8.495	8.477	8.531	VV	49051	1243241	24.76%	0.631%
121	8.556	8.531	8.573	VV	51282	1074521	21.40%	0.545%
122	8.589	8.573	8.612	VV	59976	964521	19.21%	0.489%
123	8.630	8.612	8.647	VV	52997	808298	16.10%	0.410%
124	8.676	8.647	8.703	VV	165693	2458681	48.96%	1.247%
125	8.727	8.703	8.774	VV	54645	1291140	25.71%	0.655%
126	8.822	8.774	8.839	VV	28764	885117	17.63%	0.449%
127	8.849	8.839	8.871	VV	21499	374598	7.46%	0.190%
128	8.899	8.871	8.920	VV	30649	734817	14.63%	0.373%
129	8.961	8.920	9.018	VV	72825	1876648	37.37%	0.952%
130	9.045	9.018	9.068	VV	29991	654760	13.04%	0.332%
131	9.088	9.068	9.130	VV	20353	642794	12.80%	0.326%
132	9.159	9.130	9.174	VV	16115	373545	7.44%	0.189%
133	9.194	9.174	9.212	VV	17819	369699	7.36%	0.188%
134	9.242	9.212	9.251	VV	16793	358889	7.15%	0.182%
135	9.260	9.251	9.302	VV	17141	438961	8.74%	0.223%
136	9.334	9.302	9.366	VV	48138	1038807	20.69%	0.527%
137	9.378	9.366	9.393	VV	21250	308655	6.15%	0.157%
138	9.418	9.393	9.442	VV	31478	638144	12.71%	0.324%
139	9.465	9.442	9.483	VV	29556	498219	9.92%	0.253%
140	9.496	9.483	9.503	VV	19465	219760	4.38%	0.111%
141	9.517	9.503	9.544	VV	24905	411540	8.20%	0.209%

142	9.577	9.544	9.628	VV	9514	433581	8.63%	0.220%
143	9.652	9.628	9.668	VV	10755	227019	4.52%	0.115%
144	9.693	9.668	9.717	VV	18616	409022	8.15%	0.207%
145	9.737	9.717	9.785	VV	34335	670692	13.36%	0.340%
146	9.812	9.785	9.829	VV	11490	287969	5.73%	0.146%
147	9.840	9.829	9.887	VV	10797	300425	5.98%	0.152%
148	9.910	9.887	9.931	VV	7550	179659	3.58%	0.091%
149	9.950	9.931	9.992	VV	7691	258050	5.14%	0.131%
150	10.014	9.992	10.055	VV	7727	237588	4.73%	0.121%
151	10.084	10.055	10.097	VV	11622	219315	4.37%	0.111%
152	10.125	10.097	10.155	VV	36278	666251	13.27%	0.338%
153	10.175	10.155	10.194	VV	10022	185952	3.70%	0.094%
154	10.214	10.194	10.243	VV	10679	219157	4.36%	0.111%
155	10.269	10.243	10.297	VV	9960	208048	4.14%	0.106%
156	10.313	10.297	10.348	VV	4261	119626	2.38%	0.061%
157	10.368	10.348	10.385	VV	4448	91960	1.83%	0.047%
158	10.405	10.385	10.434	VV	5778	142779	2.84%	0.072%
159	10.474	10.434	10.512	VV	11064	300847	5.99%	0.153%
160	10.547	10.512	10.578	VV	28237	500801	9.97%	0.254%
161	10.593	10.578	10.631	VV	5240	131654	2.62%	0.067%
162	10.660	10.631	10.714	VV	3581	159572	3.18%	0.081%
163	10.738	10.714	10.769	VV	3424	103244	2.06%	0.052%
164	10.799	10.769	10.832	VV	4721	148611	2.96%	0.075%
165	10.866	10.832	10.911	VV	6233	196946	3.92%	0.100%
166	10.929	10.911	10.963	VV	4155	97993	1.95%	0.050%
167	10.981	10.963	11.021	VV	3588	94212	1.88%	0.048%
168	11.030	11.021	11.078	VV	2324	74507	1.48%	0.038%
169	11.108	11.078	11.147	VV	3334	108481	2.16%	0.055%
170	11.177	11.147	11.217	VV	5922	140792	2.80%	0.071%
171	11.267	11.217	11.314	VV	10346	243181	4.84%	0.123%
172	11.330	11.314	11.354	VV	2179	45162	0.90%	0.023%
173	11.372	11.354	11.401	VV	1831	46114	0.92%	0.023%
174	11.472	11.401	11.515	VV	2789	148032	2.95%	0.075%
175	11.571	11.515	11.596	VV	2913	106660	2.12%	0.054%
176	11.614	11.596	11.644	VV	2237	57644	1.15%	0.029%
177	11.660	11.644	11.709	VV	2326	71308	1.42%	0.036%
178	11.730	11.709	11.767	VV	1797	58311	1.16%	0.030%
179	11.780	11.767	11.798	VV	1820	30667	0.61%	0.016%
180	11.825	11.798	11.905	VV	3895	155822	3.10%	0.079%
181	11.974	11.905	12.019	VV	1857	109275	2.18%	0.055%
182	12.049	12.019	12.098	VV	1902	73711	1.47%	0.037%
183	12.120	12.098	12.195	VV	2035	89733	1.79%	0.046%
184	12.226	12.195	12.238	VV	1503	35531	0.71%	0.018%
185	12.256	12.238	12.278	VV	1867	37729	0.75%	0.019%
186	12.312	12.278	12.328	VV	1520	40756	0.81%	0.021%
187	12.347	12.328	12.381	VV	2260	47862	0.95%	0.024%
188	12.422	12.381	12.455	VV	2098	61408	1.22%	0.031%
189	12.484	12.455	12.533	VV	3792	80497	1.60%	0.041%
190	12.549	12.533	12.593	VV	1124	35433	0.71%	0.018%
191	12.604	12.593	12.615	VV	991	12522	0.25%	0.006%
192	12.626	12.615	12.678	VV	1068	30606	0.61%	0.016%
193	12.694	12.678	12.718	VV	726	15536	0.31%	0.008%
194	12.738	12.718	12.752	VV	1055	18702	0.37%	0.009%

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195	12.762	12.752	12.792	VV	1024	20617	0.41%	0.010%
196	12.808	12.792	12.831	VV	895	16281	0.32%	0.008%
197	12.845	12.831	12.864	VV	837	14725	0.29%	0.007%
198	12.878	12.864	12.888	VV	874	11392	0.23%	0.006%
199	12.929	12.888	13.059	VV	337809	4240978	84.46%	2.151%
200	13.066	13.059	13.075	VV	833	7635	0.15%	0.004%
201	13.096	13.075	13.129	VV	1413	32699	0.65%	0.017%
202	13.150	13.129	13.241	VV	951	48700	0.97%	0.025%
203	13.257	13.241	13.277	VV	608	11551	0.23%	0.006%
204	13.321	13.277	13.343	VV	940	27450	0.55%	0.014%
205	13.359	13.343	13.421	VV	731	28360	0.56%	0.014%
206	13.442	13.421	13.460	VV	479	10471	0.21%	0.005%
207	13.477	13.460	13.514	VV	598	16302	0.32%	0.008%
208	13.534	13.514	13.570	VV	660	17720	0.35%	0.009%
209	13.584	13.570	13.611	VV	515	11540	0.23%	0.006%
210	13.629	13.611	13.654	VV	1095	18002	0.36%	0.009%
211	13.681	13.654	13.724	VV	2161	36582	0.73%	0.019%
212	13.736	13.724	13.763	VV	352	7227	0.14%	0.004%
213	13.772	13.763	13.798	VV	333	5522	0.11%	0.003%
214	13.805	13.798	13.815	VV	216	1838	0.04%	0.001%
215	13.823	13.815	13.878	VV	262	7803	0.16%	0.004%
216	13.910	13.878	13.968	VV	574	18977	0.38%	0.010%
217	13.975	13.968	13.994	VV	291	4097	0.08%	0.002%
218	14.021	13.994	14.081	VV	326	13145	0.26%	0.007%
219	14.117	14.081	14.217	VV	1028	28395	0.57%	0.014%
220	14.242	14.217	14.281	VV	1033	16351	0.33%	0.008%
221	14.312	14.281	14.353	VV	370	11185	0.22%	0.006%
222	14.380	14.353	14.425	VV	453	13382	0.27%	0.007%
223	14.439	14.425	14.466	VV	228	4983	0.10%	0.003%
224	14.494	14.466	14.504	VV	354	5050	0.10%	0.003%
225	14.518	14.504	14.544	VV	261	5745	0.11%	0.003%
226	14.552	14.544	14.576	VV	300	4348	0.09%	0.002%
227	14.602	14.576	14.620	VV	377	6854	0.14%	0.003%
228	14.630	14.620	14.653	VV	293	4356	0.09%	0.002%
229	14.673	14.653	14.698	VV	215	5000	0.10%	0.003%
230	14.738	14.698	14.757	VV	902	17312	0.34%	0.009%
231	14.782	14.757	14.851	VV	2678	47499	0.95%	0.024%
232	14.870	14.851	14.931	VV	276	9234	0.18%	0.005%
233	14.953	14.931	14.993	VV	242	6161	0.12%	0.003%
234	15.017	14.993	15.060	VV	255	5919	0.12%	0.003%
235	15.071	15.060	15.085	VV	157	1312	0.03%	0.001%
236	15.096	15.085	15.129	PV	158	3160	0.06%	0.002%
237	15.136	15.129	15.171	VV	177	3090	0.06%	0.002%
238	15.207	15.171	15.249	VV	349	7484	0.15%	0.004%
239	15.302	15.249	15.395	VV	1539	30389	0.61%	0.015%
240	15.403	15.395	15.415	VV	110	592	0.01%	0.000%
241	15.452	15.415	15.470	PV	145	3494	0.07%	0.002%
242	15.484	15.470	15.498	VV	160	2287	0.05%	0.001%
243	15.631	15.498	15.642	VV	329	16999	0.34%	0.009%
244	15.653	15.642	15.728	VV	272	9349	0.19%	0.005%
245	15.763	15.728	15.776	VV	605	9839	0.20%	0.005%
246	15.802	15.776	15.907	VV	2442	45355	0.90%	0.023%

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247	15.942	15.907	15.971	VV	280	6655	0.13%	0.003%
248	15.981	15.971	16.056	VV	320	6507	0.13%	0.003%
249	16.114	16.056	16.158	PV	252	7427	0.15%	0.004%
250	16.179	16.158	16.201	VV	148	2530	0.05%	0.001%
251	16.284	16.201	16.329	VV	1790	35614	0.71%	0.018%
252	16.339	16.329	16.357	VV	310	4800	0.10%	0.002%
253	16.442	16.357	16.458	VV	481	22480	0.45%	0.011%
254	16.498	16.458	16.511	VV	587	14839	0.30%	0.008%
255	16.642	16.511	16.661	VV	1273	74149	1.48%	0.038%
256	16.676	16.661	16.684	VV	1187	16413	0.33%	0.008%
257	16.750	16.684	16.818	VV	3613	151148	3.01%	0.077%
258	16.844	16.818	16.916	VV	1592	85601	1.70%	0.043%
259	17.093	16.916	17.105	VV	5399	390858	7.78%	0.198%
260	17.160	17.105	17.174	VV	5659	227750	4.54%	0.116%
261	17.202	17.174	17.245	VV	7973	294341	5.86%	0.149%
262	17.380	17.245	17.440	VV	12723	1165674	23.21%	0.591%
263	17.497	17.440	17.600	VV	16528	1173186	23.36%	0.595%
264	17.634	17.600	17.841	VV	8958	719100	14.32%	0.365%
265	17.913	17.841	17.994	VV	3619	230254	4.59%	0.117%
266	18.058	17.994	18.121	VV	4104	192544	3.83%	0.098%
267	18.128	18.121	18.241	VV	2562	149009	2.97%	0.076%
268	18.266	18.241	18.283	VV	1742	43396	0.86%	0.022%
269	18.315	18.283	18.348	VV	1878	69045	1.37%	0.035%
270	18.368	18.348	18.391	VV	1816	44038	0.88%	0.022%
271	18.398	18.391	18.410	VV	1654	18133	0.36%	0.009%
272	18.469	18.410	18.478	VV	3906	100186	2.00%	0.051%
273	18.485	18.478	18.535	VV	3780	91756	1.83%	0.047%
274	18.609	18.535	18.618	VV	2077	91803	1.83%	0.047%
275	18.626	18.618	18.661	VV	2047	50439	1.00%	0.026%
276	18.673	18.661	18.701	VV	2054	47955	0.95%	0.024%
277	18.719	18.701	18.739	VV	2176	47492	0.95%	0.024%
278	18.815	18.739	18.832	VV	2267	116761	2.33%	0.059%
279	18.865	18.832	18.894	VV	3706	104787	2.09%	0.053%
280	19.035	18.894	19.108	VV	6274	410582	8.18%	0.208%
281	19.122	19.108	19.132	VV	2921	40946	0.82%	0.021%
282	19.249	19.132	19.282	VV	4800	309776	6.17%	0.157%
283	19.302	19.282	19.317	VV	3532	72701	1.45%	0.037%
284	19.349	19.317	19.357	VV	3659	84753	1.69%	0.043%
285	19.375	19.357	19.388	VV	3694	67203	1.34%	0.034%
286	19.551	19.388	19.598	VV	9636	625792	12.46%	0.317%
287	19.623	19.598	19.644	VV	5284	136202	2.71%	0.069%
288	19.739	19.644	19.750	VV	6022	343790	6.85%	0.174%
289	19.833	19.750	19.932	VV	6736	694193	13.82%	0.352%
290	20.047	19.932	20.068	VV	29670	1181974	23.54%	0.599%
291	20.132	20.068	20.274	VV	59837	3466257	69.03%	1.758%
292	20.295	20.274	20.305	VV	7974	146425	2.92%	0.074%
293	20.342	20.305	20.398	VV	8716	460606	9.17%	0.234%
294	20.438	20.398	20.449	VV	8496	255155	5.08%	0.129%
295	20.513	20.449	20.628	VV	17956	1097349	21.85%	0.557%
296	20.709	20.628	20.749	VV	9050	620168	12.35%	0.315%
297	20.764	20.749	20.778	VV	8590	149638	2.98%	0.076%
298	20.790	20.778	20.812	VV	8487	172515	3.44%	0.087%
299	20.874	20.812	20.980	VV	8897	855412	17.04%	0.434%

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300	21.038	20.980	21.100	VV	17384	811901	16.17%	0.412%
301	21.132	21.100	21.140	VV	9020	208948	4.16%	0.106%
302	21.268	21.140	21.280	VV	14262	1001136	19.94%	0.508%
303	21.303	21.280	21.410	VV	14082	934378	18.61%	0.474%
304	21.545	21.410	21.797	VV	41889	5021476	100.00%	2.547%
305	21.806	21.797	21.825	VV	7943	127696	2.54%	0.065%
306	21.830	21.825	21.839	VV	7873	68257	1.36%	0.035%
307	21.849	21.839	21.902	VV	7673	287401	5.72%	0.146%
308	21.922	21.902	21.931	VV	7747	135123	2.69%	0.069%
309	21.938	21.931	21.955	VV	7655	109190	2.17%	0.055%
310	21.977	21.955	21.987	VV	7745	147880	2.94%	0.075%
311	22.075	21.987	22.084	VV	8632	473535	9.43%	0.240%
312	22.092	22.084	22.101	VBA	8688	95770	1.91%	0.049%

Sum of corrected areas: 197166240

Aliphatic EPH 111424.M Sat Nov 16 10:02:47 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-21		SDG No.:	P4839	
Lab Sample ID:	P4839-13		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	80.6	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048752.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	19.2	E	0.37	0.83	mg/kg
Aromatic C12-C16	Aromatic C12-C16	22.4		0.42	1.24	mg/kg
Aromatic C16-C21	Aromatic C16-C21	5.59		1.19	2.06	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.48	U	2.48	3.30	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.6		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.1		40 - 140	92%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	23.6		40 - 140	47%	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:	P4839-13	Acq On:	15 Nov 2024 19:31
Client Sample ID:	EX-9-TPH-21	Operator:	YP/AJ
Data file:	FD048752.D	Misc:	
Instrument:	FID_D	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	44644896	232.504	200	ug/ml
Aromatic C12-C16	5.806	8.411	52216867	271.314	300	ug/ml
Aromatic C16-C21	8.412	12.674	12594957	67.786	500	ug/ml
Aromatic C21-C36	12.675	18.081	3198837	20.345	800	ug/ml
Aromatic EPH	4.088	18.081	112655557	591.949		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	4531664	23.56		ug/ml
2-Bromonaphthalene (SURR)	7.368	7.368	9091573	51.64		ug/ml
2-Flurobiphenyl (SURR)	8.218	8.218	5308791	46.1		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048752.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 19:31
Operator : YP/AJ
Sample : P4839-13
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-21

Integration File: sample.E
Quant Time: Nov 16 09:53:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.368	9091573	51.639 ug/ml
Spiked Amount 50.000		Recovery = 103.28%	
6) S 2-Flurobiphenyl (SURR)	8.218	5308791	46.095 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 92.19%	
11) S ortho-Terphenyl (SURR)	11.252	4531664	23.561 ug/ml
Spiked Amount 50.000		Recovery = 47.12%	
Target Compounds			

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

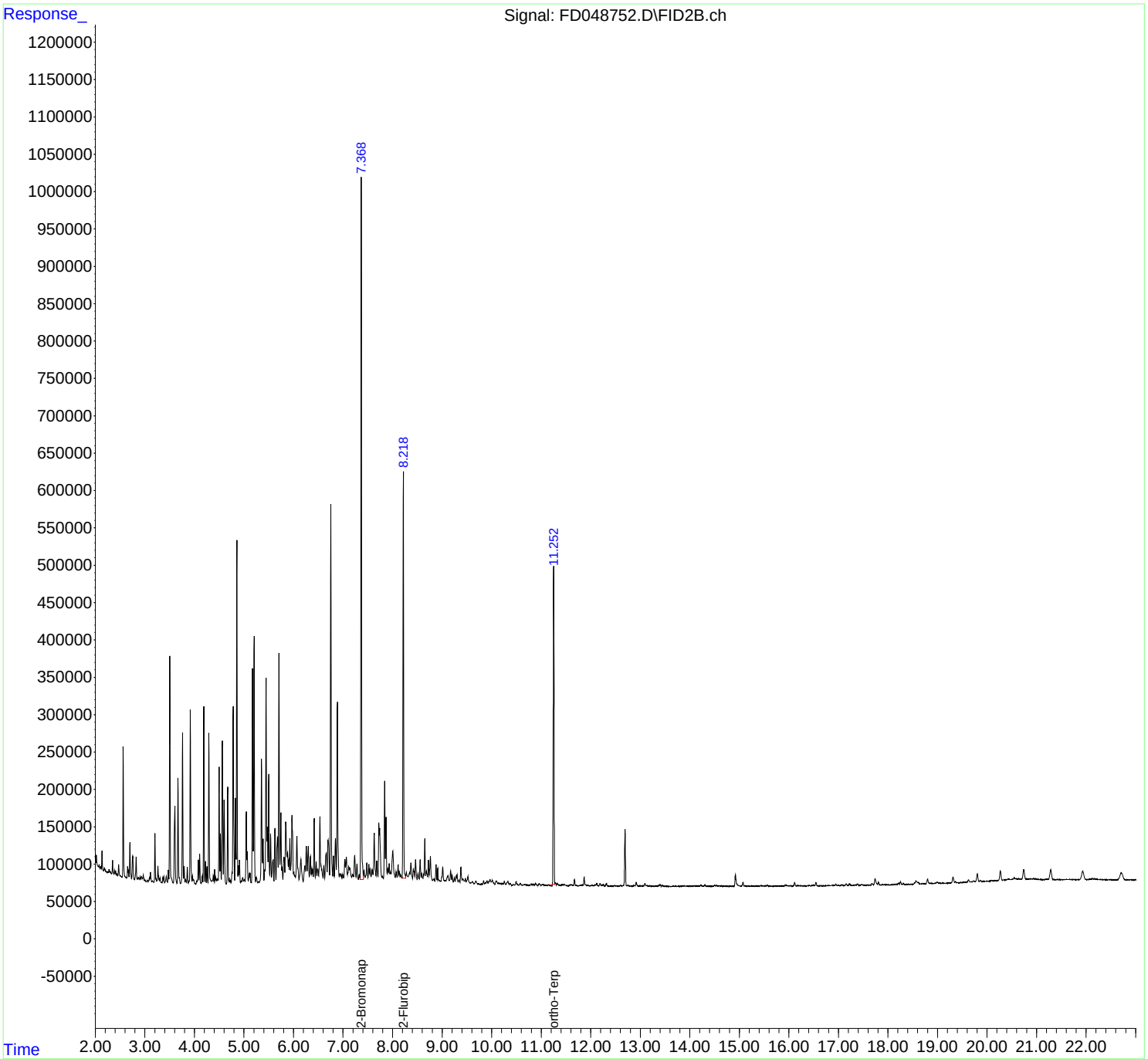
Quantitation Report (QT Reviewed)

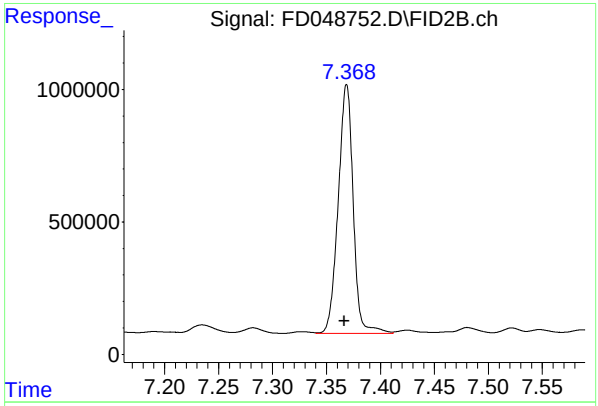
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048752.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 19:31
Operator : YP/AJ
Sample : P4839-13
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-21

Integration File: sample.E
Quant Time: Nov 16 09:53:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

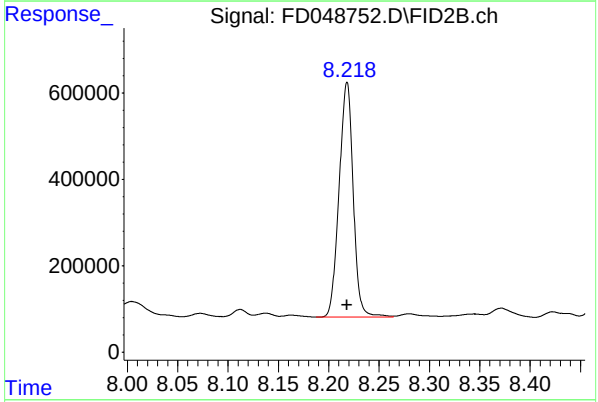




#4 2-Bromonaphthalene (SURR)

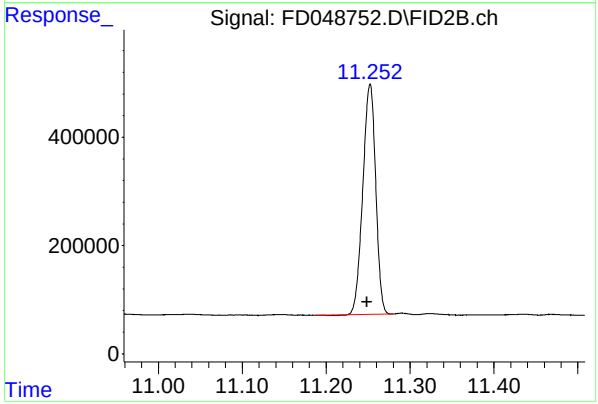
R.T.: 7.368 min
Delta R.T.: 0.002 min
Response: 9091573
Conc: 51.64 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-21



#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 5308791
Conc: 46.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: 0.004 min
Response: 4531664
Conc: 23.56 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048752.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 19:31
Sample : P4839-13
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.079	4.042	4.092	BV	30036	264003	2.81%	0.214%
2	4.106	4.092	4.130	VV	38625	342173	3.64%	0.277%
3	4.158	4.130	4.171	PV	10357	94206	1.00%	0.076%
4	4.189	4.171	4.210	VV	236825	1982227	21.10%	1.608%
5	4.224	4.210	4.240	VV	29880	254535	2.71%	0.206%
6	4.254	4.240	4.273	VV	23137	208161	2.22%	0.169%
7	4.292	4.273	4.336	VV	201196	1804046	19.20%	1.463%
8	4.342	4.336	4.354	VV	4106	40606	0.43%	0.033%
9	4.382	4.354	4.394	VV	11245	150484	1.60%	0.122%
10	4.407	4.394	4.420	VV	19249	171818	1.83%	0.139%
11	4.430	4.420	4.448	VV	8534	106984	1.14%	0.087%
12	4.460	4.448	4.472	VV	6680	80689	0.86%	0.065%
13	4.499	4.472	4.514	VV	156376	1369859	14.58%	1.111%
14	4.526	4.514	4.542	VV	67330	617987	6.58%	0.501%
15	4.563	4.542	4.584	VV	192013	2275776	24.22%	1.846%
16	4.600	4.584	4.642	VV	112965	1279388	13.62%	1.038%
17	4.671	4.642	4.692	PV	129930	1180427	12.56%	0.957%
18	4.701	4.692	4.717	VV	7704	82585	0.88%	0.067%
19	4.728	4.717	4.740	VV	5135	52990	0.56%	0.043%
20	4.759	4.740	4.764	VV	16716	136835	1.46%	0.111%
21	4.782	4.764	4.812	VV	237509	2651568	28.22%	2.150%
22	4.829	4.812	4.841	VV	115391	1041381	11.08%	0.845%
23	4.857	4.841	4.877	VV	460524	4085900	43.49%	3.314%
24	4.888	4.877	4.898	VV	25100	231725	2.47%	0.188%
25	4.910	4.898	4.929	VV	32207	304703	3.24%	0.247%
26	4.946	4.929	4.955	VV	4656	55301	0.59%	0.045%
27	4.974	4.955	4.990	VV	9038	139420	1.48%	0.113%
28	5.006	4.990	5.022	VV	5596	92996	0.99%	0.075%
29	5.047	5.022	5.060	VV	97235	1000949	10.65%	0.812%
30	5.067	5.060	5.087	VV	43905	396043	4.22%	0.321%
31	5.106	5.087	5.115	VV	14118	161205	1.72%	0.131%
32	5.124	5.115	5.141	VV	15210	141745	1.51%	0.115%
33	5.146	5.141	5.151	VV	2511	14765	0.16%	0.012%
34	5.173	5.151	5.189	VV	289111	2678889	28.51%	2.172%
35	5.205	5.189	5.233	VV	332555	3111807	33.12%	2.524%
36	5.248	5.233	5.277	VV	9245	159823	1.70%	0.130%

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37	5.296	5.277	5.308	VV	3899	58237	0.62%	0.047%
38	5.354	5.308	5.375	VV	167935	1907741	20.30%	1.547%
39	5.387	5.375	5.404	VV	60948	596087	6.34%	0.483%
40	5.422	5.404	5.428	VV	20028	208040	2.21%	0.169%
41	5.447	5.428	5.463	VV	275705	2742908	29.19%	2.224%
42	5.472	5.463	5.486	VV	77123	815894	8.68%	0.662%
43	5.500	5.486	5.520	VV	147345	1429342	15.21%	1.159%
44	5.539	5.520	5.557	VV	67697	773561	8.23%	0.627%
45	5.588	5.557	5.606	VV	32933	615583	6.55%	0.499%
46	5.625	5.606	5.646	VV	75117	923924	9.83%	0.749%
47	5.677	5.646	5.691	VV	64060	1128291	12.01%	0.915%
48	5.707	5.691	5.727	VV	309364	2931158	31.20%	2.377%
49	5.746	5.727	5.763	VV	96160	1150302	12.24%	0.933%
50	5.771	5.763	5.786	VV	23620	224951	2.39%	0.182%
51	5.803	5.786	5.826	VV	36313	638881	6.80%	0.518%
52	5.843	5.826	5.869	VV	83425	1422939	15.14%	1.154%
53	5.881	5.869	5.895	VV	42725	564176	6.00%	0.458%
54	5.903	5.895	5.913	VV	33248	308497	3.28%	0.250%
55	5.927	5.913	5.942	VV	62015	660008	7.02%	0.535%
56	5.969	5.942	6.000	VV	92712	1691007	18.00%	1.371%
57	6.008	6.000	6.019	VV	16435	170793	1.82%	0.139%
58	6.027	6.019	6.040	VV	12411	140063	1.49%	0.114%
59	6.068	6.040	6.112	VV	64406	1129397	12.02%	0.916%
60	6.151	6.112	6.196	VV	33760	831064	8.85%	0.674%
61	6.230	6.196	6.242	VV	25163	449132	4.78%	0.364%
62	6.260	6.242	6.276	VV	51402	716818	7.63%	0.581%
63	6.299	6.276	6.320	VV	51221	816451	8.69%	0.662%
64	6.342	6.320	6.358	VV	37788	525676	5.59%	0.426%
65	6.369	6.358	6.380	VV	21921	235432	2.51%	0.191%
66	6.388	6.380	6.401	VV	19280	207223	2.21%	0.168%
67	6.418	6.401	6.440	VV	88565	960795	10.23%	0.779%
68	6.459	6.440	6.474	VV	31033	405992	4.32%	0.329%
69	6.489	6.474	6.507	VV	21482	343928	3.66%	0.279%
70	6.534	6.507	6.551	VV	91359	1150887	12.25%	0.933%
71	6.555	6.551	6.566	VV	26916	214911	2.29%	0.174%
72	6.570	6.566	6.597	VV	21739	291491	3.10%	0.236%
73	6.613	6.597	6.631	VV	25305	348426	3.71%	0.283%
74	6.662	6.631	6.680	VV	42306	857160	9.12%	0.695%
75	6.698	6.680	6.730	VV	59867	1238545	13.18%	1.004%
76	6.754	6.730	6.791	VV	508254	5364333	57.09%	4.350%
77	6.806	6.791	6.824	VV	38704	465777	4.96%	0.378%
78	6.848	6.824	6.865	VV	62078	907435	9.66%	0.736%
79	6.886	6.865	6.922	VV	244047	2891201	30.77%	2.345%
80	6.939	6.922	6.954	VV	15115	253568	2.70%	0.206%
81	6.964	6.954	6.978	VV	13986	171977	1.83%	0.139%
82	6.994	6.978	7.012	VV	13864	232854	2.48%	0.189%
83	7.037	7.012	7.048	VV	34207	467577	4.98%	0.379%
84	7.068	7.048	7.087	VV	37058	630841	6.71%	0.512%
85	7.096	7.087	7.100	VV	16260	120911	1.29%	0.098%
86	7.115	7.100	7.125	VV	24138	309012	3.29%	0.251%
87	7.135	7.125	7.175	VV	22999	515065	5.48%	0.418%
88	7.191	7.175	7.214	VV	14346	289683	3.08%	0.235%
89	7.235	7.214	7.263	VV	39368	697271	7.42%	0.565%

90	7.282	7.263	7.309	VV	28519	454206	4.83%	0.368%
91	7.327	7.309	7.342	VV	13862	214266	2.28%	0.174%
92	7.369	7.342	7.411	VV	948262	9395507	100.00%	7.619%
93	7.425	7.411	7.450	VV	19409	336341	3.58%	0.273%
94	7.481	7.450	7.504	VV	29589	565033	6.01%	0.458%
95	7.522	7.504	7.536	VV	27865	366852	3.90%	0.298%
96	7.548	7.536	7.568	VV	21657	328283	3.49%	0.266%
97	7.587	7.568	7.606	VV	20978	375160	3.99%	0.304%
98	7.630	7.606	7.665	VV	69449	1143463	12.17%	0.927%
99	7.682	7.665	7.705	VV	32332	505031	5.38%	0.410%
100	7.724	7.705	7.732	VV	83647	833275	8.87%	0.676%
101	7.740	7.732	7.783	VV	76075	1238982	13.19%	1.005%
102	7.797	7.783	7.815	VV	11586	200096	2.13%	0.162%
103	7.842	7.815	7.856	VV	139631	1561580	16.62%	1.266%
104	7.869	7.856	7.890	VV	90719	1018515	10.84%	0.826%
105	7.904	7.890	7.918	VV	22657	322489	3.43%	0.262%
106	7.933	7.918	7.947	VV	28711	383028	4.08%	0.311%
107	7.956	7.947	7.970	VV	17225	223738	2.38%	0.181%
108	8.005	7.970	8.055	VV	45407	1272124	13.54%	1.032%
109	8.072	8.055	8.095	VV	18110	331598	3.53%	0.269%
110	8.112	8.095	8.126	VV	27162	338634	3.60%	0.275%
111	8.137	8.126	8.152	VV	18495	244116	2.60%	0.198%
112	8.163	8.152	8.185	VV	13994	239594	2.55%	0.194%
113	8.218	8.185	8.264	VV	554554	5756041	61.26%	4.668%
114	8.280	8.264	8.312	VV	17034	385550	4.10%	0.313%
115	8.345	8.312	8.355	VV	16652	366507	3.90%	0.297%
116	8.372	8.355	8.405	VV	30200	574583	6.12%	0.466%
117	8.423	8.405	8.449	VV	21804	433365	4.61%	0.351%
118	8.465	8.449	8.496	VV	34355	546129	5.81%	0.443%
119	8.514	8.496	8.538	VV	15861	296296	3.15%	0.240%
120	8.558	8.538	8.578	VV	34492	481438	5.12%	0.390%
121	8.591	8.578	8.614	VV	16058	268440	2.86%	0.218%
122	8.628	8.614	8.633	VV	14718	145288	1.55%	0.118%
123	8.652	8.633	8.670	VV	62939	725328	7.72%	0.588%
124	8.683	8.670	8.708	VV	18826	352008	3.75%	0.285%
125	8.725	8.708	8.739	VV	33774	417504	4.44%	0.339%
126	8.765	8.739	8.812	VV	38906	780530	8.31%	0.633%
127	8.834	8.812	8.852	VV	8630	180450	1.92%	0.146%
128	8.879	8.852	8.897	VV	28170	409498	4.36%	0.332%
129	8.912	8.897	8.950	VV	22954	363119	3.86%	0.294%
130	8.959	8.950	8.974	VV	6360	85733	0.91%	0.070%
131	9.014	8.974	9.055	VV	24882	555457	5.91%	0.450%
132	9.067	9.055	9.082	VV	6948	104511	1.11%	0.085%
133	9.118	9.082	9.146	VV	13128	366214	3.90%	0.297%
134	9.174	9.146	9.191	VV	19586	317479	3.38%	0.257%
135	9.204	9.191	9.229	VV	14034	212505	2.26%	0.172%
136	9.249	9.229	9.265	VV	10525	164583	1.75%	0.133%
137	9.281	9.265	9.291	VV	12720	151900	1.62%	0.123%
138	9.302	9.291	9.323	VV	14626	198760	2.12%	0.161%
139	9.343	9.323	9.361	VV	7167	136190	1.45%	0.110%
140	9.380	9.361	9.407	VV	24502	363469	3.87%	0.295%
141	9.419	9.407	9.456	VV	9061	217072	2.31%	0.176%

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142	9.472	9.456	9.487	VV	9426	136421	1.45%	0.111%
143	9.522	9.487	9.561	VV	11854	303969	3.24%	0.247%
144	9.567	9.561	9.579	VV	3643	37027	0.39%	0.030%
145	9.618	9.579	9.644	VV	5084	157833	1.68%	0.128%
146	9.681	9.644	9.737	VV	6189	197263	2.10%	0.160%
147	9.740	9.737	9.764	VV	2200	30188	0.32%	0.024%
148	9.786	9.764	9.812	VV	2582	59461	0.63%	0.048%
149	9.838	9.812	9.857	VV	6609	105314	1.12%	0.085%
150	9.870	9.857	9.875	VV	3200	31832	0.34%	0.026%
151	9.907	9.875	9.927	VV	6515	143907	1.53%	0.117%
152	9.943	9.927	9.949	VV	5604	60718	0.65%	0.049%
153	9.968	9.949	9.992	VV	8395	171577	1.83%	0.139%
154	10.017	9.992	10.067	VV	7037	203223	2.16%	0.165%
155	10.089	10.067	10.128	VV	6349	158879	1.69%	0.129%
156	10.144	10.128	10.170	VV	4112	81350	0.87%	0.066%
157	10.182	10.170	10.198	VV	3482	47855	0.51%	0.039%
158	10.220	10.198	10.239	VV	3448	69079	0.74%	0.056%
159	10.258	10.239	10.284	VV	6089	100041	1.06%	0.081%
160	10.328	10.284	10.358	VV	5948	164132	1.75%	0.133%
161	10.381	10.358	10.407	VV	2787	58750	0.63%	0.048%
162	10.444	10.407	10.463	VV	1641	43240	0.46%	0.035%
163	10.493	10.463	10.539	VV	5553	116716	1.24%	0.095%
164	10.580	10.539	10.612	VV	3554	80210	0.85%	0.065%
165	10.623	10.612	10.630	VV	1233	11326	0.12%	0.009%
166	10.664	10.630	10.695	VV	1864	56834	0.60%	0.046%
167	10.708	10.695	10.729	VV	1610	23884	0.25%	0.019%
168	10.757	10.729	10.773	VV	1200	23322	0.25%	0.019%
169	10.800	10.773	10.821	VV	2829	51304	0.55%	0.042%
170	10.837	10.821	10.849	VV	1963	24753	0.26%	0.020%
171	10.859	10.849	10.867	VV	1939	18408	0.20%	0.015%
172	10.885	10.867	10.909	VV	3253	53761	0.57%	0.044%
173	10.914	10.909	10.938	VV	1303	20805	0.22%	0.017%
174	10.955	10.938	10.994	VV	2990	62630	0.67%	0.051%
175	11.038	10.994	11.077	VV	2555	80315	0.85%	0.065%
176	11.094	11.077	11.119	VV	1111	23377	0.25%	0.019%
177	11.147	11.119	11.163	VV	1879	35809	0.38%	0.029%
178	11.170	11.163	11.214	VV	1145	21284	0.23%	0.017%
179	11.252	11.214	11.279	VV	427037	4628319	49.26%	3.753%
180	11.290	11.279	11.309	VV	4684	61092	0.65%	0.050%
181	11.325	11.309	11.357	VV	3900	72158	0.77%	0.059%
182	11.372	11.357	11.389	VV	1426	23807	0.25%	0.019%
183	11.436	11.389	11.454	VV	2623	68295	0.73%	0.055%
184	11.469	11.454	11.525	VV	2423	53750	0.57%	0.044%
185	11.544	11.525	11.564	VV	864	13985	0.15%	0.011%
186	11.587	11.564	11.593	VV	1878	23858	0.25%	0.019%
187	11.600	11.593	11.622	VV	1877	27334	0.29%	0.022%
188	11.628	11.622	11.648	VV	1547	19995	0.21%	0.016%
189	11.672	11.648	11.696	VV	9105	118949	1.27%	0.096%
190	11.707	11.696	11.734	VV	1407	22785	0.24%	0.018%
191	11.741	11.734	11.755	VV	781	8746	0.09%	0.007%
192	11.785	11.755	11.800	VV	1256	27657	0.29%	0.022%
193	11.834	11.800	11.848	VV	1853	38891	0.41%	0.032%
194	11.868	11.848	11.932	VV	12257	184205	1.96%	0.149%

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195	11.958	11.932	11.987	VV	1181	28328	0.30%	0.023%
196	11.994	11.987	12.000	VV	661	4793	0.05%	0.004%
197	12.032	12.000	12.055	VV	1562	33527	0.36%	0.027%
198	12.082	12.055	12.102	VV	2226	40640	0.43%	0.033%
199	12.122	12.102	12.162	VV	4189	70390	0.75%	0.057%
200	12.188	12.162	12.236	VV	3873	86622	0.92%	0.070%
201	12.255	12.236	12.282	VV	2888	44155	0.47%	0.036%
202	12.318	12.282	12.367	VV	3826	73267	0.78%	0.059%
203	12.372	12.367	12.376	VV	299	1190	0.01%	0.001%
204	12.423	12.376	12.454	VV	602	17626	0.19%	0.014%
205	12.488	12.454	12.515	PV	967	22602	0.24%	0.018%
206	12.526	12.515	12.571	VV	996	20496	0.22%	0.017%
207	12.606	12.571	12.633	VV	1284	30373	0.32%	0.025%
208	12.658	12.633	12.662	VV	1328	15378	0.16%	0.012%
209	12.693	12.662	12.726	VV	76546	891511	9.49%	0.723%
210	12.739	12.726	12.817	VV	1222	44262	0.47%	0.036%
211	12.821	12.817	12.834	VV	693	4806	0.05%	0.004%
212	12.881	12.834	12.897	VV	1253	30152	0.32%	0.024%
213	12.919	12.897	12.957	VV	5504	89754	0.96%	0.073%
214	12.969	12.957	12.984	VV	682	9864	0.10%	0.008%
215	12.993	12.984	13.000	VV	957	7853	0.08%	0.006%
216	13.002	13.000	13.039	VV	932	14941	0.16%	0.012%
217	13.042	13.039	13.061	VV	617	7767	0.08%	0.006%
218	13.094	13.061	13.144	VV	4079	83272	0.89%	0.068%
219	13.150	13.144	13.167	VV	932	10109	0.11%	0.008%
220	13.179	13.167	13.185	VV	697	6325	0.07%	0.005%
221	13.190	13.185	13.242	VV	890	19003	0.20%	0.015%
222	13.274	13.250	13.280	VV	524	6088	0.06%	0.005%
223	13.296	13.280	13.301	VV	593	5872	0.06%	0.005%
224	13.320	13.301	13.335	VV	747	11421	0.12%	0.009%
225	13.355	13.335	13.376	VV	970	19149	0.20%	0.016%
226	13.399	13.376	13.428	VV	2808	43997	0.47%	0.036%
227	13.445	13.428	13.492	VV	1694	28097	0.30%	0.023%
228	13.510	13.492	13.529	VV	320	5003	0.05%	0.004%
229	13.540	13.529	13.570	VV	375	5810	0.06%	0.005%
230	13.582	13.570	13.593	PV	247	1929	0.02%	0.002%
231	13.599	13.593	13.607	VV	300	1178	0.01%	0.001%
232	13.633	13.623	13.640	VV	238	1167	0.01%	0.001%
233	13.659	13.652	13.663	VV	273	1200	0.01%	0.001%
234	13.670	13.663	13.687	VV	306	2887	0.03%	0.002%
235	13.695	13.687	13.711	VV	309	3131	0.03%	0.003%
236	13.716	13.711	13.723	VV	259	1350	0.01%	0.001%
237	13.743	13.735	13.752	VV	281	1868	0.02%	0.002%
238	13.756	13.752	13.766	VV	199	1263	0.01%	0.001%
239	13.781	13.766	13.785	VV	354	2622	0.03%	0.002%
240	13.794	13.785	13.818	VV	371	5833	0.06%	0.005%
241	13.839	13.818	13.864	VV	737	14165	0.15%	0.011%
242	13.877	13.864	13.906	VV	1067	18479	0.20%	0.015%
243	13.912	13.906	13.927	VV	530	5331	0.06%	0.004%
244	13.934	13.927	13.968	VV	556	8405	0.09%	0.007%
245	13.976	13.968	13.990	VV	271	3188	0.03%	0.003%
246	14.008	13.990	14.032	VV	645	10917	0.12%	0.009%

247	14.049	14.032	14.063	VV	529	8320	0.09%	0.007%
248	14.082	14.063	14.105	VV	1144	20127	0.21%	0.016%
249	14.110	14.105	14.132	VV	743	9088	0.10%	0.007%
250	14.145	14.132	14.169	VV	640	12557	0.13%	0.010%
251	14.175	14.169	14.180	VV	641	4000	0.04%	0.003%
252	14.184	14.180	14.193	VV	697	3737	0.04%	0.003%
253	14.223	14.193	14.246	VV	2213	34099	0.36%	0.028%
254	14.250	14.246	14.254	VV	518	2572	0.03%	0.002%
255	14.257	14.254	14.269	VV	523	3614	0.04%	0.003%
256	14.302	14.269	14.341	VV	2248	40187	0.43%	0.033%
257	14.350	14.341	14.370	VV	455	6189	0.07%	0.005%
258	14.377	14.370	14.428	VV	509	10086	0.11%	0.008%
259	14.455	14.428	14.461	VV	329	4675	0.05%	0.004%
260	14.468	14.461	14.474	VV	318	1600	0.02%	0.001%
261	14.504	14.474	14.525	VV	1643	26523	0.28%	0.022%
262	14.544	14.525	14.570	VV	1492	24493	0.26%	0.020%
263	14.586	14.570	14.609	VV	1103	17455	0.19%	0.014%
264	14.632	14.609	14.680	VV	841	19189	0.20%	0.016%
265	14.715	14.680	14.770	VV	554	14001	0.15%	0.011%
266	14.777	14.770	14.808	VV	292	4650	0.05%	0.004%
267	14.844	14.808	14.865	VV	302	4946	0.05%	0.004%
268	14.878	14.865	14.885	PV	219	1999	0.02%	0.002%
269	14.920	14.892	15.017	VV	15929	302215	3.22%	0.245%
270	15.026	15.017	15.037	VV	579	6107	0.07%	0.005%
271	15.073	15.037	15.099	VV	5382	78976	0.84%	0.064%
272	15.110	15.099	15.139	VV	688	10256	0.11%	0.008%
273	15.147	15.139	15.162	VV	493	3830	0.04%	0.003%
274	15.172	15.162	15.219	VV	565	12007	0.13%	0.010%
275	15.223	15.219	15.230	VV	315	1481	0.02%	0.001%
276	15.263	15.230	15.290	VV	658	15128	0.16%	0.012%
277	15.294	15.290	15.312	VV	448	3967	0.04%	0.003%
278	15.329	15.312	15.338	VV	413	4334	0.05%	0.004%
279	15.348	15.338	15.402	VV	591	17055	0.18%	0.014%
280	15.408	15.402	15.414	VV	483	2831	0.03%	0.002%
281	15.441	15.414	15.497	VV	830	25675	0.27%	0.021%
282	15.522	15.497	15.534	VV	746	10512	0.11%	0.009%
283	15.557	15.534	15.590	VV	1474	26464	0.28%	0.021%
284	15.600	15.590	15.612	VV	604	5425	0.06%	0.004%
285	15.618	15.612	15.663	VV	511	6909	0.07%	0.006%
286	15.709	15.697	15.722	VV	412	4174	0.04%	0.003%
287	15.725	15.722	15.739	VV	296	2071	0.02%	0.002%
288	15.765	15.739	15.772	VV	391	4872	0.05%	0.004%
289	15.774	15.772	15.788	VV	419	2518	0.03%	0.002%
290	15.797	15.788	15.806	VV	368	2413	0.03%	0.002%
291	15.837	15.806	15.860	VV	446	9321	0.10%	0.008%
292	15.872	15.860	15.903	VV	466	7739	0.08%	0.006%
293	15.934	15.903	15.974	VV	1657	40084	0.43%	0.033%
294	15.984	15.974	16.018	VV	526	10851	0.12%	0.009%
295	16.038	16.018	16.068	VV	997	15733	0.17%	0.013%
296	16.115	16.068	16.151	VV	5037	75983	0.81%	0.062%
297	16.178	16.151	16.212	VV	760	20006	0.21%	0.016%
298	16.231	16.212	16.332	VV	471	18222	0.19%	0.015%
299	16.410	16.332	16.447	VV	883	21881	0.23%	0.018%

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300	16.471	16.447	16.481	VV	654	10241	0.11%	0.008%
301	16.502	16.481	16.524	VV	1596	24478	0.26%	0.020%
302	16.546	16.524	16.594	VV	4636	67621	0.72%	0.055%
303	16.602	16.594	16.636	VV	286	4732	0.05%	0.004%
304	16.673	16.636	16.697	PV	291	3801	0.04%	0.003%
305	16.708	16.697	16.720	PV	312	1962	0.02%	0.002%
306	16.731	16.720	16.740	VV	183	1197	0.01%	0.001%
307	16.755	16.740	16.777	VV	397	3811	0.04%	0.003%
308	16.801	16.777	16.844	VV	517	11995	0.13%	0.010%
309	16.872	16.844	16.912	VV	913	23781	0.25%	0.019%
310	16.948	16.912	17.002	VV	1641	33437	0.36%	0.027%
311	17.068	17.002	17.105	VV	1201	29968	0.32%	0.024%
312	17.156	17.105	17.195	VV	2415	40881	0.44%	0.033%
313	17.226	17.195	17.288	VV	2425	40405	0.43%	0.033%
314	17.385	17.288	17.409	VV	2305	51976	0.55%	0.042%
315	17.424	17.409	17.442	VV	409	6344	0.07%	0.005%
316	17.473	17.442	17.522	VV	1317	29168	0.31%	0.024%
317	17.524	17.522	17.560	VV	339	3435	0.04%	0.003%
318	17.586	17.560	17.617	PV	329	6691	0.07%	0.005%
319	17.629	17.617	17.640	VV	251	2435	0.03%	0.002%
320	17.679	17.640	17.707	VV	2321	41915	0.45%	0.034%
321	17.740	17.707	17.787	VV	8701	185865	1.98%	0.151%
322	17.807	17.787	17.861	VV	3027	58803	0.63%	0.048%
323	17.890	17.861	17.928	VV	726	20346	0.22%	0.016%
324	17.941	17.928	17.957	VV	489	6610	0.07%	0.005%
325	17.964	17.957	17.991	VV	612	5332	0.06%	0.004%
326	18.013	17.991	18.033	VV	353	4904	0.05%	0.004%
327	18.071	18.033	18.091	PV	225	3587	0.04%	0.003%
328	18.102	18.091	18.122	VV	286	2803	0.03%	0.002%
329	18.164	18.122	18.177	PV	216	2903	0.03%	0.002%

Sum of corrected areas: 123309624

Aromatic EPH 111424.M Sat Nov 16 10:30:30 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-21		SDG No.:	P4839	
Lab Sample ID:	P4839-13		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	80.6	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067802.D	5	11/14/24	11/18/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		39.6		2.35	6.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		46.1		1.49	4.13	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		3.28	J	1.86	6.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		4.95	U	4.95	8.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		17.4		11.1	12.4	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		6.07		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-13DL	Acq On:	18 Nov 2024 11:41
Client Sample ID:	P4839-13DL	Operator:	YP/AJ
Data file:	FC067802.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	5	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	15915661	95.998	300	ug/ml
Aliphatic C12-C16	6.449	9.838	19048995	111.8	200	ug/ml
Aliphatic C16-C21	9.839	13.196	1347591	7.945	300	ug/ml
Aliphatic C21-C28	13.197	16.850	310054	1.971	400	ug/ml
Aliphatic C28-C40	16.851	21.691	5099579	42.107	600	ug/ml
Aliphatic EPH	3.172	21.691	41721880	259.821		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.928	12.928	881661	6.07		ug/ml
Aliphatic C9-C28	3.172	16.850	36622301	217.714	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067802.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 11:41
Operator : YP/AJ
Sample : P4839-13DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-21DL

Integration File: sample.E
Quant Time: Nov 19 04:54:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.928	881661	6.074 ug/ml
Spiked Amount 50.000		Recovery = 12.15%	
Target Compounds			

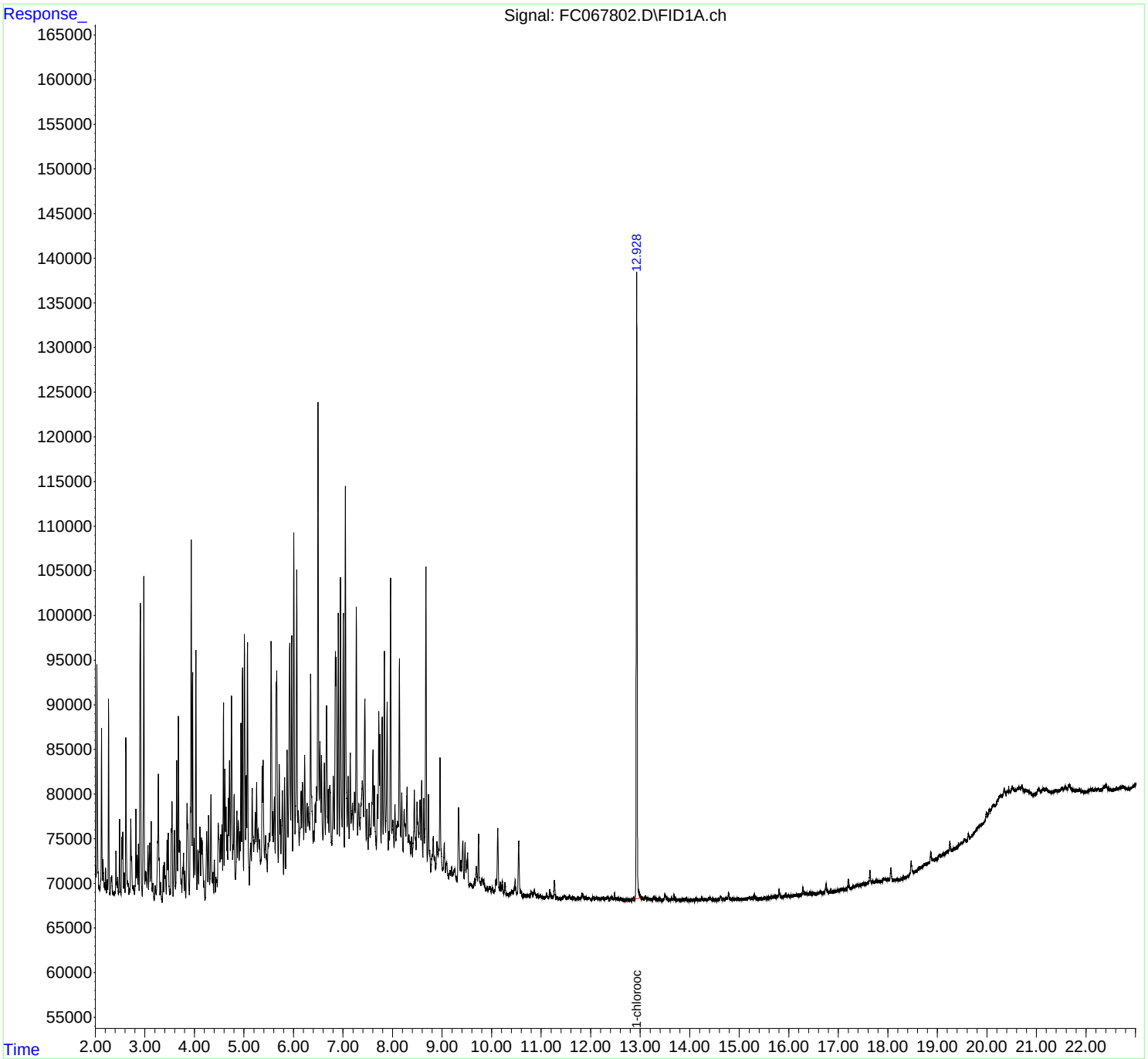
(f)=RT Delta > 1/2 Window (m)=manual int.

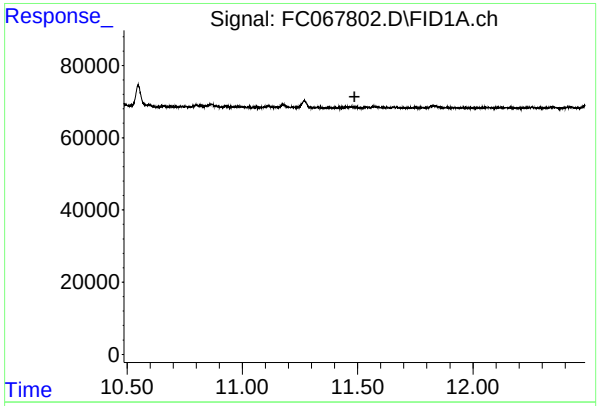
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067802.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 11:41
Operator : YP/AJ
Sample : P4839-13DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-21DL

Integration File: sample.E
Quant Time: Nov 19 04:54:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

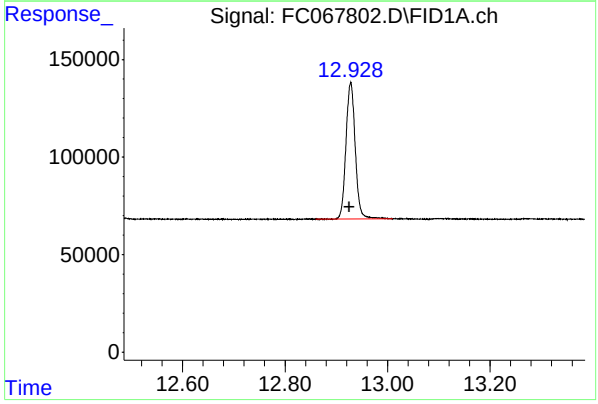




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-21DL



#12 1-chlorooctadecane (SURR)

R.T.: 12.928 min
Delta R.T.: 0.002 min
Response: 881661
Conc: 6.07 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067802.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 11:41
Sample : P4839-13DL 5X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.271	3.225	3.305	BV	13730	210769	17.81%	0.494%
2	3.317	3.305	3.347	VV	1826	21853	1.85%	0.051%
3	3.369	3.347	3.381	PV	4018	36176	3.06%	0.085%
4	3.395	3.381	3.430	VV	4344	76322	6.45%	0.179%
5	3.448	3.430	3.458	VV	6840	66733	5.64%	0.156%
6	3.471	3.458	3.518	VV	7627	107030	9.05%	0.251%
7	3.548	3.518	3.568	VV	11119	173350	14.65%	0.407%
8	3.596	3.568	3.618	VV	7919	118535	10.02%	0.278%
9	3.642	3.618	3.659	VV	15691	174491	14.75%	0.409%
10	3.677	3.659	3.691	VV	20539	211150	17.84%	0.495%
11	3.701	3.691	3.747	VV	6612	138402	11.70%	0.325%
12	3.780	3.747	3.795	VV	5290	90685	7.66%	0.213%
13	3.807	3.795	3.824	VV	3392	34680	2.93%	0.081%
14	3.852	3.824	3.897	VV	10960	230056	19.44%	0.540%
15	3.936	3.897	3.951	VV	40604	481934	40.73%	1.130%
16	3.963	3.951	3.983	VV	25518	248289	20.98%	0.582%
17	3.995	3.983	4.010	VV	7067	80693	6.82%	0.189%
18	4.030	4.010	4.051	VV	27953	279177	23.59%	0.655%
19	4.069	4.051	4.084	VV	5738	70983	6.00%	0.166%
20	4.112	4.084	4.126	VV	8159	129309	10.93%	0.303%
21	4.140	4.126	4.213	VV	7083	202205	17.09%	0.474%
22	4.249	4.213	4.270	VV	7797	134411	11.36%	0.315%
23	4.287	4.270	4.308	VV	9602	117735	9.95%	0.276%
24	4.334	4.308	4.360	VV	11769	165912	14.02%	0.389%
25	4.372	4.360	4.386	VV	3174	37213	3.14%	0.087%
26	4.403	4.386	4.422	VV	4644	59202	5.00%	0.139%
27	4.437	4.422	4.461	VV	2516	48457	4.10%	0.114%
28	4.482	4.461	4.516	VV	8761	193904	16.39%	0.455%
29	4.531	4.516	4.543	VV	7427	98096	8.29%	0.230%
30	4.556	4.543	4.570	VV	8515	102486	8.66%	0.240%
31	4.587	4.570	4.601	VV	21951	216582	18.30%	0.508%
32	4.616	4.601	4.629	VV	14759	174684	14.76%	0.410%
33	4.640	4.629	4.671	VV	10474	189880	16.05%	0.445%
34	4.684	4.671	4.694	VV	11407	119597	10.11%	0.280%
35	4.709	4.694	4.726	VV	15637	211548	17.88%	0.496%
36	4.749	4.726	4.772	VV	23036	358076	30.26%	0.840%

37	4.801	4.772	4.826	VV	11945	208867	17.65%	0.490%
38	4.857	4.826	4.870	VV	10153	148173	12.52%	0.347%
39	4.887	4.870	4.905	VV	8923	146422	12.37%	0.343%
40	4.916	4.905	4.923	VV	7647	72327	6.11%	0.170%
41	4.940	4.923	4.955	VV	19687	231275	19.55%	0.542%
42	4.971	4.955	4.991	VV	26186	302470	25.56%	0.709%
43	5.011	4.991	5.035	VV	29682	417906	35.32%	0.980%
44	5.047	5.035	5.056	VV	14052	140317	11.86%	0.329%
45	5.072	5.056	5.110	VV	28944	373760	31.59%	0.877%
46	5.136	5.110	5.149	VV	6399	114987	9.72%	0.270%
47	5.168	5.149	5.197	VV	12645	232352	19.64%	0.545%
48	5.229	5.197	5.241	VV	9844	199904	16.89%	0.469%
49	5.256	5.241	5.272	VV	13294	176282	14.90%	0.413%
50	5.288	5.272	5.335	VV	7978	239696	20.26%	0.562%
51	5.369	5.335	5.378	VV	15078	213984	18.08%	0.502%
52	5.388	5.378	5.415	VV	15812	223964	18.93%	0.525%
53	5.437	5.415	5.472	VV	7269	186203	15.74%	0.437%
54	5.489	5.472	5.496	VV	6478	79762	6.74%	0.187%
55	5.511	5.496	5.524	VV	7511	114291	9.66%	0.268%
56	5.550	5.524	5.573	VV	28851	474557	40.11%	1.113%
57	5.581	5.573	5.592	VV	9955	99179	8.38%	0.233%
58	5.614	5.592	5.630	VV	11700	200346	16.93%	0.470%
59	5.661	5.630	5.693	VV	25519	570461	48.21%	1.338%
60	5.714	5.693	5.748	VV	15342	298839	25.26%	0.701%
61	5.776	5.748	5.800	VV	12252	249785	21.11%	0.586%
62	5.821	5.800	5.842	VV	13764	196695	16.62%	0.461%
63	5.871	5.842	5.891	VV	16847	298816	25.25%	0.701%
64	5.924	5.891	5.945	VV	28759	561037	47.41%	1.316%
65	5.964	5.945	5.984	VV	29549	381130	32.21%	0.894%
66	6.007	5.984	6.033	VV	41022	566620	47.89%	1.329%
67	6.067	6.033	6.116	VV	37110	724679	61.24%	1.699%
68	6.154	6.116	6.167	VV	12307	285211	24.10%	0.669%
69	6.183	6.167	6.208	VV	13283	254773	21.53%	0.597%
70	6.227	6.208	6.251	VV	16096	287222	24.27%	0.674%
71	6.274	6.251	6.290	VV	10852	219896	18.58%	0.516%
72	6.301	6.290	6.326	VV	10503	202913	17.15%	0.476%
73	6.347	6.326	6.396	VV	25251	542748	45.87%	1.273%
74	6.407	6.396	6.418	VV	7756	95306	8.05%	0.224%
75	6.438	6.418	6.449	VV	10836	171901	14.53%	0.403%
76	6.496	6.449	6.520	VV	55847	927740	78.40%	2.176%
77	6.535	6.520	6.554	VV	17738	289031	24.43%	0.678%
78	6.567	6.554	6.595	VV	16174	263437	22.26%	0.618%
79	6.624	6.595	6.645	VV	15324	318724	26.94%	0.747%
80	6.669	6.645	6.693	VV	21835	422514	35.71%	0.991%
81	6.703	6.693	6.717	VV	12377	147867	12.50%	0.347%
82	6.734	6.717	6.775	VV	12641	337190	28.50%	0.791%
83	6.806	6.775	6.824	VV	13953	295849	25.00%	0.694%
84	6.848	6.824	6.884	VV	27406	678466	57.34%	1.591%
85	6.905	6.884	6.928	VV	31984	450132	38.04%	1.056%
86	6.950	6.928	6.983	VV	36054	582455	49.22%	1.366%
87	7.006	6.983	7.027	VV	32037	447126	37.79%	1.049%
88	7.049	7.027	7.086	VV	46325	705810	59.65%	1.655%
89	7.103	7.086	7.124	VV	13863	238654	20.17%	0.560%

90	7.148	7.124	7.165	VV	16504	279072	23.58%	0.654%
91	7.191	7.165	7.207	VV	10973	245487	20.75%	0.576%
92	7.234	7.207	7.248	VV	12126	252964	21.38%	0.593%
93	7.270	7.248	7.296	VV	32893	503354	42.54%	1.180%
94	7.319	7.296	7.345	VV	10911	271897	22.98%	0.638%
95	7.391	7.345	7.416	VV	13420	481833	40.72%	1.130%
96	7.442	7.416	7.468	VV	22565	456441	38.57%	1.070%
97	7.484	7.468	7.508	VV	10262	193333	16.34%	0.453%
98	7.529	7.508	7.565	VV	10924	280994	23.75%	0.659%
99	7.606	7.565	7.622	VV	16768	397544	33.60%	0.932%
100	7.635	7.622	7.674	VV	12740	279608	23.63%	0.656%
101	7.696	7.674	7.706	VV	11856	179613	15.18%	0.421%
102	7.724	7.706	7.737	VV	21039	291894	24.67%	0.685%
103	7.748	7.737	7.768	VV	18524	241612	20.42%	0.567%
104	7.791	7.768	7.811	VV	20472	321814	27.20%	0.755%
105	7.836	7.811	7.860	VV	27860	453126	38.29%	1.063%
106	7.891	7.860	7.915	VV	22128	408164	34.49%	0.957%
107	7.961	7.915	7.986	VV	36210	611532	51.68%	1.434%
108	8.007	7.986	8.031	VV	9015	215649	18.22%	0.506%
109	8.049	8.031	8.069	VV	10828	190870	16.13%	0.448%
110	8.101	8.069	8.118	VV	8772	240790	20.35%	0.565%
111	8.139	8.118	8.166	VV	27122	426358	36.03%	1.000%
112	8.187	8.166	8.212	VV	12120	235458	19.90%	0.552%
113	8.235	8.212	8.269	VV	10213	280356	23.69%	0.657%
114	8.293	8.269	8.315	VV	12836	262623	22.19%	0.616%
115	8.332	8.315	8.367	VV	7385	206709	17.47%	0.485%
116	8.385	8.367	8.402	VV	7105	127996	10.82%	0.300%
117	8.441	8.402	8.477	VV	12310	355948	30.08%	0.835%
118	8.496	8.477	8.528	VV	11033	258720	21.86%	0.607%
119	8.556	8.528	8.573	VV	11289	249146	21.06%	0.584%
120	8.589	8.573	8.611	VV	13274	212836	17.99%	0.499%
121	8.630	8.611	8.647	VV	11382	176246	14.89%	0.413%
122	8.676	8.647	8.703	VV	37571	545530	46.10%	1.279%
123	8.727	8.703	8.774	VV	11767	276331	23.35%	0.648%
124	8.822	8.774	8.872	VV	7117	290004	24.51%	0.680%
125	8.899	8.872	8.920	VV	6653	152711	12.91%	0.358%
126	8.961	8.920	9.018	VV	15958	403869	34.13%	0.947%
127	9.044	9.018	9.068	VV	6379	138315	11.69%	0.324%
128	9.091	9.068	9.130	VV	4377	134792	11.39%	0.316%
129	9.160	9.130	9.175	VV	3282	83508	7.06%	0.196%
130	9.195	9.175	9.223	VV	3772	94039	7.95%	0.221%
131	9.258	9.223	9.303	VV	3577	144817	12.24%	0.340%
132	9.334	9.303	9.366	VV	10391	221870	18.75%	0.520%
133	9.378	9.366	9.393	VV	4445	64341	5.44%	0.151%
134	9.419	9.393	9.443	VV	6682	139104	11.76%	0.326%
135	9.465	9.443	9.483	VV	6503	106762	9.02%	0.250%
136	9.517	9.483	9.559	VV	5332	149094	12.60%	0.350%
137	9.577	9.559	9.628	VV	1901	72517	6.13%	0.170%
138	9.654	9.628	9.668	VV	2223	46405	3.92%	0.109%
139	9.693	9.668	9.717	VV	3784	85260	7.21%	0.200%
140	9.738	9.717	9.783	VV	7495	140308	11.86%	0.329%
141	9.809	9.783	9.831	VV	2425	64436	5.45%	0.151%

142	9.841	9.831	9.895	VV	2269	64936	5.49%	0.152%
143	9.912	9.895	9.930	VV	1473	29590	2.50%	0.069%
144	9.948	9.930	9.993	VV	1593	52194	4.41%	0.122%
145	10.013	9.993	10.048	VV	1468	40865	3.45%	0.096%
146	10.086	10.048	10.098	VV	2348	48576	4.11%	0.114%
147	10.126	10.098	10.156	VV	8126	142382	12.03%	0.334%
148	10.175	10.156	10.198	VV	2079	40085	3.39%	0.094%
149	10.215	10.198	10.248	VV	2192	44880	3.79%	0.105%
150	10.269	10.248	10.345	VV	2095	60007	5.07%	0.141%
151	10.371	10.345	10.382	VV	929	17939	1.52%	0.042%
152	10.403	10.382	10.432	VV	1219	29632	2.50%	0.069%
153	10.475	10.432	10.511	VV	2363	64847	5.48%	0.152%
154	10.548	10.511	10.585	VV	6560	121816	10.29%	0.286%
155	10.594	10.585	10.627	VV	1059	20030	1.69%	0.047%
156	10.657	10.627	10.685	VV	814	22076	1.87%	0.052%
157	10.691	10.685	10.714	VV	627	10626	0.90%	0.025%
158	10.736	10.714	10.767	VV	682	18866	1.59%	0.044%
159	10.800	10.767	10.834	VV	1003	30677	2.59%	0.072%
160	10.867	10.834	10.913	VV	1299	39568	3.34%	0.093%
161	10.930	10.913	10.963	VV	720	17760	1.50%	0.042%
162	10.981	10.963	11.018	VV	705	17998	1.52%	0.042%
163	11.027	11.018	11.087	VV	499	16180	1.37%	0.038%
164	11.111	11.087	11.150	VV	809	20483	1.73%	0.048%
165	11.177	11.150	11.236	VV	1256	31952	2.70%	0.075%
166	11.268	11.236	11.314	VV	2299	42842	3.62%	0.100%
167	11.326	11.314	11.352	VV	425	7392	0.62%	0.017%
168	11.381	11.352	11.392	VV	335	6508	0.55%	0.015%
169	11.470	11.392	11.516	VV	574	28288	2.39%	0.066%
170	11.574	11.516	11.599	VV	623	21086	1.78%	0.049%
171	11.612	11.599	11.639	VV	430	8542	0.72%	0.020%
172	11.659	11.639	11.693	VV	428	10943	0.92%	0.026%
173	11.698	11.693	11.709	VV	283	2571	0.22%	0.006%
174	11.827	11.709	11.873	VV	836	39153	3.31%	0.092%
175	11.891	11.873	11.901	VV	361	5302	0.45%	0.012%
176	11.909	11.901	11.915	VV	315	2510	0.21%	0.006%
177	11.927	11.915	11.955	VV	363	7131	0.60%	0.017%
178	11.967	11.955	12.014	VV	390	9987	0.84%	0.023%
179	12.042	12.014	12.108	VV	421	16520	1.40%	0.039%
180	12.119	12.108	12.213	VV	402	18237	1.54%	0.043%
181	12.255	12.213	12.283	VV	450	13004	1.10%	0.030%
182	12.345	12.283	12.377	VV	509	17010	1.44%	0.040%
183	12.425	12.377	12.465	VV	483	15335	1.30%	0.036%
184	12.483	12.465	12.507	VV	921	12664	1.07%	0.030%
185	12.550	12.507	12.562	VV	300	7941	0.67%	0.019%
186	12.572	12.562	12.589	VV	254	3069	0.26%	0.007%
187	12.608	12.589	12.715	VV	256	10566	0.89%	0.025%
188	12.777	12.715	12.798	VV	222	7465	0.63%	0.018%
189	12.809	12.798	12.820	VV	176	1606	0.14%	0.004%
190	12.845	12.820	12.865	VV	244	4677	0.40%	0.011%
191	12.928	12.865	13.077	VV	70041	919411	77.70%	2.156%
192	13.104	13.077	13.155	VV	513	15247	1.29%	0.036%
193	13.159	13.155	13.188	VV	323	4814	0.41%	0.011%
194	13.193	13.188	13.218	VV	204	3216	0.27%	0.008%

195	13.228	13.218	13.235	VV	175	1565	0.13%	0.004%
196	13.273	13.235	13.298	VV	439	10339	0.87%	0.024%
197	13.305	13.298	13.312	VV	319	2288	0.19%	0.005%
198	13.318	13.312	13.361	VV	291	6650	0.56%	0.016%
199	13.373	13.361	13.435	VV	250	7085	0.60%	0.017%
200	13.501	13.435	13.567	VV	739	22532	1.90%	0.053%
201	13.579	13.567	13.586	VV	226	1629	0.14%	0.004%
202	13.595	13.586	13.615	VV	199	2309	0.20%	0.005%
203	13.634	13.615	13.655	VV	411	6201	0.52%	0.015%
204	13.681	13.655	13.709	VV	675	11529	0.97%	0.027%
205	13.719	13.709	13.728	VV	131	1231	0.10%	0.003%
206	13.771	13.728	13.804	VV	219	6086	0.51%	0.014%
207	13.824	13.804	13.845	PV	156	1875	0.16%	0.004%
208	13.899	13.845	13.911	VV	176	4720	0.40%	0.011%
209	13.922	13.911	13.957	VV	220	4726	0.40%	0.011%
210	13.970	13.957	13.991	VV	113	1498	0.13%	0.004%
211	14.002	13.991	14.007	VV	127	705	0.06%	0.002%
212	14.015	14.007	14.023	VV	146	886	0.07%	0.002%
213	14.028	14.023	14.036	VV	99	649	0.05%	0.002%
214	14.045	14.036	14.067	VV	129	1501	0.13%	0.004%
215	14.116	14.067	14.200	VV	227	8853	0.75%	0.021%
216	14.246	14.200	14.284	VV	317	6937	0.59%	0.016%
217	14.292	14.284	14.306	VV	140	1035	0.09%	0.002%
218	14.315	14.306	14.331	VV	119	1285	0.11%	0.003%
219	14.340	14.331	14.352	VV	108	1074	0.09%	0.003%
220	14.362	14.352	14.368	VV	181	986	0.08%	0.002%
221	14.407	14.368	14.451	VV	326	8525	0.72%	0.020%
222	14.470	14.451	14.551	VV	161	5323	0.45%	0.012%
223	14.627	14.551	14.672	VV	397	11429	0.97%	0.027%
224	14.738	14.672	14.761	VV	268	7189	0.61%	0.017%
225	14.783	14.761	14.831	VV	764	13547	1.14%	0.032%
226	14.839	14.831	14.849	VV	106	1101	0.09%	0.003%
227	14.868	14.849	14.911	VV	132	3121	0.26%	0.007%
228	14.928	14.911	14.945	VV	103	1859	0.16%	0.004%
229	14.958	14.945	14.995	VV	115	2709	0.23%	0.006%
230	15.022	14.995	15.036	VV	119	1543	0.13%	0.004%
231	15.052	15.036	15.078	VV	116	1532	0.13%	0.004%
232	15.087	15.078	15.141	PV	96	2303	0.19%	0.005%
233	15.149	15.141	15.157	VV	92	774	0.07%	0.002%
234	15.204	15.157	15.250	VV	229	8057	0.68%	0.019%
235	15.304	15.250	15.391	VV	531	13596	1.15%	0.032%
236	15.498	15.391	15.508	PV	107	2528	0.21%	0.006%
237	15.519	15.508	15.531	VV	154	990	0.08%	0.002%
238	15.541	15.531	15.550	VV	81	733	0.06%	0.002%
239	15.585	15.550	15.605	VV	127	2565	0.22%	0.006%
240	15.612	15.605	15.618	VV	74	637	0.05%	0.001%
241	15.668	15.618	15.688	VV	142	3874	0.33%	0.009%
242	15.733	15.688	15.746	VV	171	2744	0.23%	0.006%
243	15.805	15.746	15.877	VV	801	16364	1.38%	0.038%
244	15.901	15.877	15.911	VV	109	1504	0.13%	0.004%
245	15.942	15.911	15.971	VV	229	4062	0.34%	0.010%
246	15.980	15.971	16.038	VV	142	3325	0.28%	0.008%

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247	16.050	16.038	16.065	VV	103	853	0.07%	0.002%
248	16.158	16.065	16.186	PV	178	6901	0.58%	0.016%
249	16.198	16.186	16.212	VV	116	1070	0.09%	0.003%
250	16.239	16.212	16.250	PV	138	1897	0.16%	0.004%
251	16.287	16.250	16.313	VV	834	13087	1.11%	0.031%
252	16.331	16.313	16.343	VV	227	2984	0.25%	0.007%
253	16.385	16.343	16.465	VV	170	8365	0.71%	0.020%
254	16.477	16.465	16.508	VV	169	2485	0.21%	0.006%
255	16.523	16.508	16.558	VV	140	2289	0.19%	0.005%
256	16.603	16.558	16.615	PV	139	2775	0.23%	0.007%
257	16.638	16.615	16.687	VV	224	4948	0.42%	0.012%
258	16.752	16.687	16.809	VV	1022	21493	1.82%	0.050%
259	16.843	16.809	16.867	VV	242	2799	0.24%	0.007%
260	16.887	16.867	16.931	VV	159	2385	0.20%	0.006%
261	17.058	16.931	17.068	VV	239	12722	1.08%	0.030%
262	17.145	17.068	17.156	VV	290	10642	0.90%	0.025%
263	17.203	17.156	17.247	VV	1202	25940	2.19%	0.061%
264	17.304	17.247	17.348	VV	457	20423	1.73%	0.048%
265	17.391	17.348	17.411	VV	516	17155	1.45%	0.040%
266	17.434	17.411	17.461	VV	544	13994	1.18%	0.033%
267	17.485	17.461	17.506	VV	616	14604	1.23%	0.034%
268	17.541	17.506	17.551	VV	636	15169	1.28%	0.036%
269	17.637	17.551	17.665	VV	1920	58824	4.97%	0.138%
270	17.688	17.665	17.725	VV	765	23822	2.01%	0.056%
271	17.764	17.725	17.815	VV	733	35671	3.01%	0.084%
272	17.822	17.815	17.834	VV	695	7496	0.63%	0.018%
273	17.909	17.834	17.938	VV	909	45258	3.82%	0.106%
274	17.942	17.938	17.981	VV	847	20045	1.69%	0.047%
275	18.059	17.981	18.165	VV	1959	91662	7.75%	0.215%
276	18.189	18.165	18.208	VV	689	15713	1.33%	0.037%
277	18.232	18.208	18.244	VV	640	11927	1.01%	0.028%
278	18.319	18.244	18.355	VV	839	45871	3.88%	0.108%
279	18.470	18.355	18.531	VV	2501	130065	10.99%	0.305%
280	18.634	18.531	18.644	VV	1646	97238	8.22%	0.228%
281	18.731	18.644	18.744	VV	1954	106938	9.04%	0.251%
282	18.813	18.744	18.821	VV	2158	93372	7.89%	0.219%
283	18.866	18.821	18.897	VV	3331	116802	9.87%	0.274%
284	18.915	18.897	18.935	VV	2439	54803	4.63%	0.129%
285	18.972	18.935	18.995	VV	2508	89411	7.56%	0.210%
286	19.037	18.995	19.061	VV	2844	106420	8.99%	0.250%
287	19.198	19.061	19.211	VV	3199	263767	22.29%	0.619%
288	19.251	19.211	19.290	VV	4259	165371	13.98%	0.388%
289	19.491	19.290	19.505	VV	3953	460167	38.89%	1.079%
290	19.546	19.505	19.598	VV	4334	230169	19.45%	0.540%
291	19.625	19.598	19.652	VV	4878	146360	12.37%	0.343%
292	19.990	19.652	20.011	VV	7145	1183272	100.00%	2.775%
293	20.048	20.011	20.071	VV	7345	255613	21.60%	0.599%
294	20.142	20.071	20.164	VV	7794	421035	35.58%	0.987%
295	20.280	20.164	20.301	VV	8735	689453	58.27%	1.617%

Sum of corrected areas: 42641296

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-9-TPH-21DL		SDG No.:	P4839	
Lab Sample ID:	P4839-13DL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	80.6	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048759.D	2	11/14/24	11/18/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	21.3		0.74	1.65	mg/kg
Aromatic C12-C16	Aromatic C12-C16	20.7		0.84	2.48	mg/kg
Aromatic C16-C21	Aromatic C16-C21	6.66		2.38	4.13	mg/kg
Aromatic C21-C36	Aromatic C21-C36	4.95	U	4.95	6.60	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	28.0		40 - 140	112%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	24.2		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	12.6		40 - 140	50%	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:	P4839-13DL	Acq On:	18 Nov 2024 10:02
Client Sample ID:	EX-9-TPH-21DL	Operator:	YP/AJ
Data file:	FD048759.D	Misc:	
Instrument:	FID_D	ALS Vial:	62
Dilution Factor:	2	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	24826341	129.292	200	ug/ml
Aromatic C12-C16	5.806	8.411	24192018	125.7	300	ug/ml
Aromatic C16-C21	8.412	12.674	7493878	40.332	500	ug/ml
Aromatic C21-C36	12.675	18.081	1708210	10.864	800	ug/ml
Aromatic EPH	4.088	18.081	58220447	306.188		ug/ml
2-Bromonaphthalene (SURR)	7.365	7.365	4935168	28.03		ug/ml
2-Flurobiphenyl (SURR)	8.215	8.215	2786851	24.2		ug/ml
ortho-Terphenyl (SURR)	11.249	11.249	2426070	12.61		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048759.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:02
Operator : YP/AJ
Sample : P4839-13DL 2X
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-21DL

Integration File: sample.E
Quant Time: Nov 19 05:54:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.365	4935168	28.031 ug/ml
Spiked Amount 50.000		Recovery =	56.06%
6) S 2-Flurobiphenyl (SURR)	8.215	2786851	24.198 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery =	48.40%
11) S ortho-Terphenyl (SURR)	11.249	2426070	12.614 ug/ml
Spiked Amount 50.000		Recovery =	25.23%
Target Compounds			

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

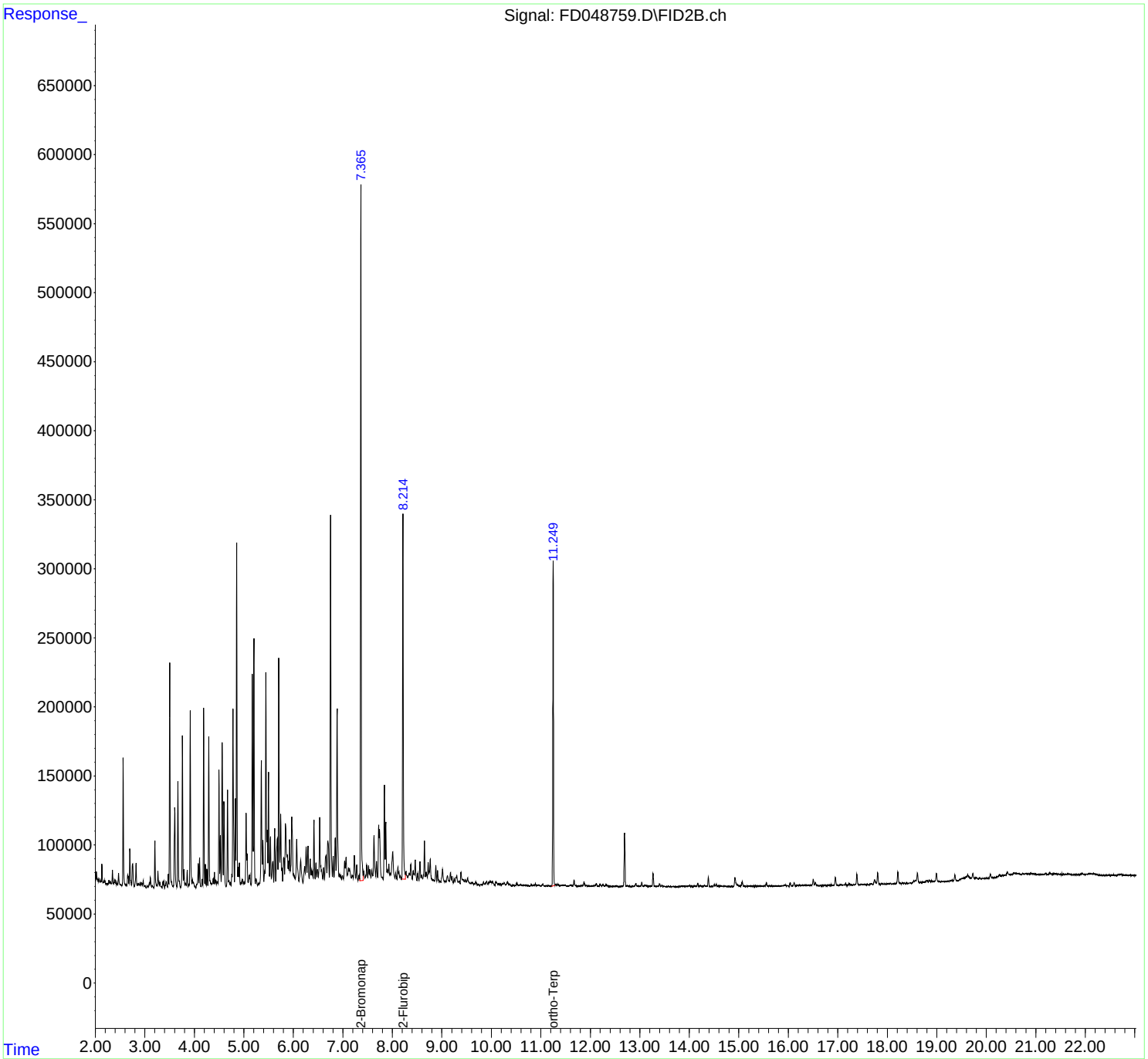
Quantitation Report (QT Reviewed)

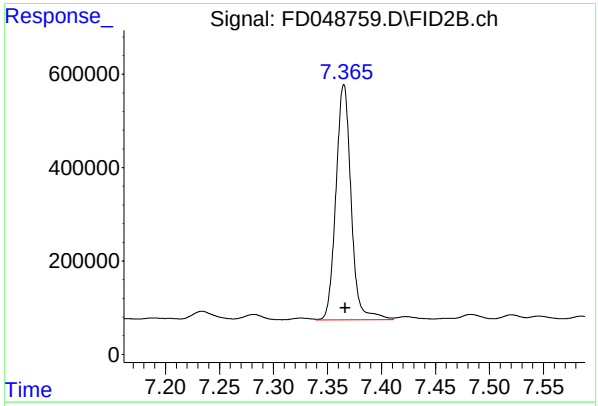
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048759.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:02
Operator : YP/AJ
Sample : P4839-13DL 2X
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-21DL

Integration File: sample.E
Quant Time: Nov 19 05:54:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

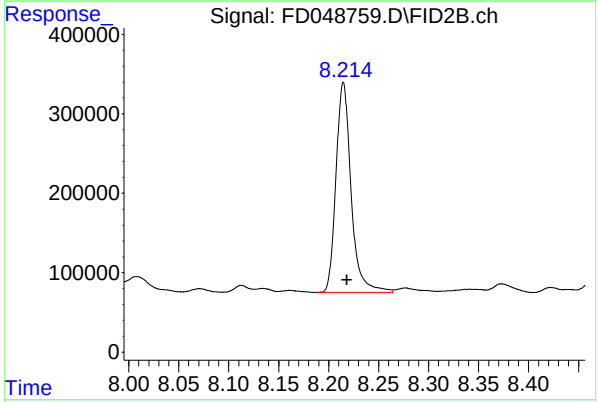




#4 2-Bromonaphthalene (SURR)

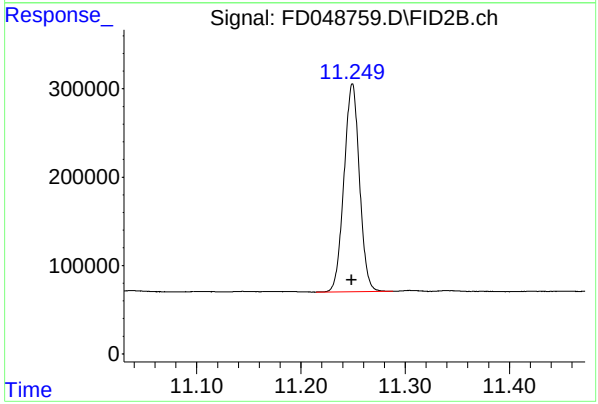
R.T.: 7.365 min
Delta R.T.: -0.001 min
Response: 4935168
Conc: 28.03 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-21DL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: -0.004 min
Response: 2786851
Conc: 24.20 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 2426070
Conc: 12.61 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048759.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 10:02
Sample : P4839-13DL 2X
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.078	4.042	4.091	BV	15962	151792	2.96%	0.220%
2	4.105	4.091	4.142	VV	20432	186370	3.64%	0.270%
3	4.158	4.142	4.171	PV	5404	45623	0.89%	0.066%
4	4.188	4.171	4.210	VV	129171	1089933	21.26%	1.580%
5	4.224	4.210	4.239	VV	16119	137979	2.69%	0.200%
6	4.253	4.239	4.273	VV	12652	114844	2.24%	0.166%
7	4.291	4.273	4.336	VV	108263	997757	19.47%	1.446%
8	4.341	4.336	4.359	VV	2456	28958	0.56%	0.042%
9	4.381	4.359	4.393	VV	5924	75849	1.48%	0.110%
10	4.407	4.393	4.419	VV	10545	96036	1.87%	0.139%
11	4.430	4.419	4.446	VV	4814	58372	1.14%	0.085%
12	4.458	4.446	4.472	VV	3646	46066	0.90%	0.067%
13	4.475	4.472	4.480	VV	2813	12934	0.25%	0.019%
14	4.498	4.480	4.513	VV	84743	737537	14.39%	1.069%
15	4.525	4.513	4.542	VV	37079	341705	6.67%	0.495%
16	4.562	4.542	4.584	VV	104330	1251633	24.42%	1.814%
17	4.599	4.584	4.641	VV	61871	714995	13.95%	1.036%
18	4.671	4.641	4.691	PV	70081	649572	12.67%	0.941%
19	4.699	4.691	4.715	VV	4618	49933	0.97%	0.072%
20	4.726	4.715	4.740	VV	3176	32223	0.63%	0.047%
21	4.757	4.740	4.763	VV	9388	78562	1.53%	0.114%
22	4.780	4.763	4.811	VV	128746	1468400	28.65%	2.128%
23	4.828	4.811	4.840	VV	63898	577786	11.27%	0.837%
24	4.855	4.840	4.877	VV	249356	2265828	44.21%	3.284%
25	4.887	4.877	4.898	VV	14249	135520	2.64%	0.196%
26	4.909	4.898	4.930	VV	17551	175799	3.43%	0.255%
27	4.944	4.930	4.954	VV	2999	36246	0.71%	0.053%
28	4.973	4.954	4.990	VV	5317	82662	1.61%	0.120%
29	4.997	4.990	5.003	VV	2805	21172	0.41%	0.031%
30	5.013	5.003	5.021	VV	3067	29003	0.57%	0.042%
31	5.046	5.021	5.059	VV	53272	559219	10.91%	0.810%
32	5.066	5.059	5.090	VV	24162	231142	4.51%	0.335%
33	5.105	5.090	5.114	VV	8435	88365	1.72%	0.128%
34	5.124	5.114	5.139	VV	8557	82717	1.61%	0.120%
35	5.145	5.139	5.151	VV	1915	12838	0.25%	0.019%
36	5.172	5.151	5.188	VV	153753	1482865	28.93%	2.149%

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37	5.203	5.188	5.233	VV	179174	1728526	33.72%	2.505%
38	5.247	5.233	5.278	VV	5820	100927	1.97%	0.146%
39	5.294	5.278	5.307	VV	2762	35848	0.70%	0.052%
40	5.354	5.307	5.375	VV	91401	1064515	20.77%	1.543%
41	5.386	5.375	5.404	VV	33768	338124	6.60%	0.490%
42	5.421	5.404	5.427	VV	11267	119021	2.32%	0.172%
43	5.446	5.427	5.462	VV	155226	1526204	29.78%	2.212%
44	5.471	5.462	5.485	VV	41358	440900	8.60%	0.639%
45	5.499	5.485	5.519	VV	82990	803901	15.68%	1.165%
46	5.538	5.519	5.559	VV	36376	440596	8.60%	0.639%
47	5.586	5.559	5.605	VV	18419	338428	6.60%	0.490%
48	5.624	5.605	5.645	VV	42395	519777	10.14%	0.753%
49	5.676	5.645	5.690	VV	35147	629956	12.29%	0.913%
50	5.706	5.690	5.728	VV	165489	1604439	31.30%	2.325%
51	5.745	5.728	5.763	VV	52641	640820	12.50%	0.929%
52	5.769	5.763	5.785	VV	13936	133917	2.61%	0.194%
53	5.804	5.785	5.825	VV	21139	363999	7.10%	0.528%
54	5.842	5.825	5.871	VV	45835	824729	16.09%	1.195%
55	5.880	5.871	5.894	VV	23121	281852	5.50%	0.408%
56	5.903	5.894	5.912	VV	18602	173483	3.38%	0.251%
57	5.926	5.912	5.941	VV	34205	370278	7.22%	0.537%
58	5.968	5.941	6.000	VV	50653	951489	18.56%	1.379%
59	6.006	6.000	6.018	VV	9332	91798	1.79%	0.133%
60	6.025	6.018	6.039	VV	7642	87644	1.71%	0.127%
61	6.068	6.039	6.112	VV	34724	638462	12.46%	0.925%
62	6.149	6.112	6.195	VV	19391	477730	9.32%	0.692%
63	6.230	6.195	6.241	VV	14754	266372	5.20%	0.386%
64	6.260	6.241	6.276	VV	29128	403736	7.88%	0.585%
65	6.297	6.276	6.320	VV	29615	462909	9.03%	0.671%
66	6.342	6.320	6.357	VV	20392	298027	5.81%	0.432%
67	6.368	6.357	6.379	VV	12281	136374	2.66%	0.198%
68	6.388	6.379	6.400	VV	10959	118996	2.32%	0.172%
69	6.417	6.400	6.440	VV	48393	540168	10.54%	0.783%
70	6.458	6.440	6.473	VV	17542	230334	4.49%	0.334%
71	6.490	6.473	6.507	VV	12485	198005	3.86%	0.287%
72	6.533	6.507	6.566	VV	50444	768224	14.99%	1.113%
73	6.572	6.566	6.597	VV	12065	171900	3.35%	0.249%
74	6.612	6.597	6.630	VV	14028	197136	3.85%	0.286%
75	6.661	6.630	6.678	VV	22866	476862	9.30%	0.691%
76	6.697	6.678	6.729	VV	33281	693365	13.53%	1.005%
77	6.752	6.729	6.790	VV	268638	2929768	57.16%	4.246%
78	6.805	6.790	6.823	VV	22265	274889	5.36%	0.398%
79	6.847	6.823	6.864	VV	35641	513965	10.03%	0.745%
80	6.885	6.864	6.923	VV	128537	1604090	31.30%	2.325%
81	6.938	6.923	6.952	VV	9093	141949	2.77%	0.206%
82	6.962	6.952	6.978	VV	8322	110463	2.16%	0.160%
83	6.994	6.978	7.012	VV	8331	141783	2.77%	0.205%
84	7.037	7.012	7.049	VV	18861	271388	5.29%	0.393%
85	7.066	7.049	7.087	VV	21615	352928	6.89%	0.511%
86	7.114	7.087	7.125	VV	13741	246608	4.81%	0.357%
87	7.135	7.125	7.175	VV	13161	296215	5.78%	0.429%
88	7.189	7.175	7.213	VV	8440	171749	3.35%	0.249%
89	7.234	7.213	7.263	VV	22932	394394	7.69%	0.572%

90	7.282	7.263	7.308	VV	16009	261620	5.10%	0.379%
91	7.326	7.308	7.340	VV	8205	127449	2.49%	0.185%
92	7.365	7.340	7.410	VV	508686	5125519	100.00%	7.428%
93	7.423	7.410	7.449	VV	11374	202997	3.96%	0.294%
94	7.483	7.449	7.503	VV	15933	327501	6.39%	0.475%
95	7.521	7.503	7.534	VV	15336	210331	4.10%	0.305%
96	7.546	7.534	7.568	VV	12611	197768	3.86%	0.287%
97	7.585	7.568	7.604	VV	12260	206023	4.02%	0.299%
98	7.630	7.604	7.665	VV	37166	645210	12.59%	0.935%
99	7.681	7.665	7.705	VV	18528	290349	5.66%	0.421%
100	7.724	7.705	7.733	VV	44973	453156	8.84%	0.657%
101	7.742	7.733	7.784	VV	41555	697108	13.60%	1.010%
102	7.795	7.784	7.815	VV	7000	122420	2.39%	0.177%
103	7.841	7.815	7.856	VV	73831	850774	16.60%	1.233%
104	7.868	7.856	7.890	VV	47062	569147	11.10%	0.825%
105	7.903	7.890	7.916	VV	12557	174316	3.40%	0.253%
106	7.931	7.916	7.946	VV	16579	231595	4.52%	0.336%
107	7.955	7.946	7.967	VV	10011	118901	2.32%	0.172%
108	8.008	7.967	8.055	VV	25365	736605	14.37%	1.067%
109	8.071	8.055	8.094	VV	10293	181800	3.55%	0.263%
110	8.113	8.094	8.126	VV	14385	195879	3.82%	0.284%
111	8.134	8.126	8.149	VV	10558	129012	2.52%	0.187%
112	8.161	8.149	8.189	VV	8092	164596	3.21%	0.239%
113	8.215	8.189	8.265	VV	270675	3042931	59.37%	4.410%
114	8.277	8.265	8.309	VV	11134	235635	4.60%	0.341%
115	8.342	8.309	8.357	VV	9489	243387	4.75%	0.353%
116	8.373	8.357	8.404	VV	16238	308377	6.02%	0.447%
117	8.422	8.404	8.447	VV	11789	234264	4.57%	0.339%
118	8.464	8.447	8.497	VV	19621	331530	6.47%	0.480%
119	8.514	8.497	8.540	VV	9878	178223	3.48%	0.258%
120	8.559	8.540	8.580	VV	18238	268151	5.23%	0.389%
121	8.592	8.580	8.615	VV	8452	151114	2.95%	0.219%
122	8.650	8.615	8.670	VV	33491	491172	9.58%	0.712%
123	8.684	8.670	8.708	VV	10692	205401	4.01%	0.298%
124	8.726	8.708	8.740	VV	17715	231486	4.52%	0.335%
125	8.767	8.740	8.817	VV	20108	461705	9.01%	0.669%
126	8.830	8.817	8.850	VV	5361	95607	1.87%	0.139%
127	8.880	8.850	8.900	VV	15648	244551	4.77%	0.354%
128	8.916	8.900	8.955	VV	11981	217110	4.24%	0.315%
129	8.959	8.955	8.978	VV	4089	52262	1.02%	0.076%
130	9.015	8.978	9.050	VV	12796	301862	5.89%	0.437%
131	9.068	9.050	9.081	VV	4455	75602	1.48%	0.110%
132	9.115	9.081	9.147	VV	7968	219528	4.28%	0.318%
133	9.176	9.147	9.193	VV	10441	187371	3.66%	0.272%
134	9.205	9.193	9.235	VV	7508	130320	2.54%	0.189%
135	9.250	9.235	9.266	VV	6044	87071	1.70%	0.126%
136	9.287	9.266	9.293	VV	6938	90292	1.76%	0.131%
137	9.304	9.293	9.329	VV	8208	125094	2.44%	0.181%
138	9.346	9.329	9.367	VV	4154	80687	1.57%	0.117%
139	9.386	9.367	9.412	VV	10689	182856	3.57%	0.265%
140	9.422	9.412	9.451	VV	5500	115556	2.25%	0.167%
141	9.472	9.451	9.490	VV	5372	103325	2.02%	0.150%

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142	9.521	9.490	9.564	VV	6451	182920	3.57%	0.265%
143	9.568	9.564	9.579	VV	2688	22526	0.44%	0.033%
144	9.616	9.579	9.645	VV	3320	108647	2.12%	0.157%
145	9.685	9.645	9.730	VV	3546	121409	2.37%	0.176%
146	9.742	9.730	9.767	VV	1668	30707	0.60%	0.045%
147	9.793	9.767	9.814	VV	1725	41245	0.80%	0.060%
148	9.842	9.814	9.860	VV	3659	64536	1.26%	0.094%
149	9.906	9.860	9.930	VV	4111	114422	2.23%	0.166%
150	9.945	9.930	9.956	VV	3485	46037	0.90%	0.067%
151	9.975	9.956	10.004	VV	4128	103472	2.02%	0.150%
152	10.023	10.004	10.071	VV	4279	109726	2.14%	0.159%
153	10.092	10.071	10.129	VV	3619	91666	1.79%	0.133%
154	10.147	10.129	10.165	VV	2348	44885	0.88%	0.065%
155	10.184	10.165	10.204	VV	2417	44705	0.87%	0.065%
156	10.225	10.204	10.241	VV	2334	44602	0.87%	0.065%
157	10.262	10.241	10.293	VV	3056	66680	1.30%	0.097%
158	10.325	10.293	10.363	VV	3729	97421	1.90%	0.141%
159	10.375	10.363	10.415	VV	2057	40906	0.80%	0.059%
160	10.433	10.415	10.462	VV	1368	29444	0.57%	0.043%
161	10.467	10.462	10.470	VV	948	4066	0.08%	0.006%
162	10.478	10.470	10.484	VV	1070	8389	0.16%	0.012%
163	10.511	10.484	10.560	VV	2531	67966	1.33%	0.098%
164	10.579	10.560	10.585	VV	1452	18351	0.36%	0.027%
165	10.598	10.585	10.622	VV	1522	27627	0.54%	0.040%
166	10.628	10.622	10.634	VV	1097	7410	0.14%	0.011%
167	10.641	10.634	10.652	VV	1140	11227	0.22%	0.016%
168	10.675	10.652	10.697	VV	1373	31474	0.61%	0.046%
169	10.702	10.697	10.728	VV	1177	17260	0.34%	0.025%
170	10.744	10.728	10.754	VV	842	11989	0.23%	0.017%
171	10.762	10.754	10.780	VV	920	12426	0.24%	0.018%
172	10.807	10.780	10.832	VV	1513	35160	0.69%	0.051%
173	10.844	10.832	10.856	VV	1177	15512	0.30%	0.022%
174	10.892	10.856	10.914	VV	2052	47801	0.93%	0.069%
175	10.919	10.914	10.934	VV	1127	11861	0.23%	0.017%
176	10.956	10.934	10.979	VV	1646	31555	0.62%	0.046%
177	10.990	10.979	11.003	VV	1110	12107	0.24%	0.018%
178	11.039	11.003	11.082	VV	1950	50380	0.98%	0.073%
179	11.099	11.082	11.126	VV	930	19103	0.37%	0.028%
180	11.144	11.126	11.162	VV	1116	17286	0.34%	0.025%
181	11.171	11.162	11.181	VV	870	9559	0.19%	0.014%
182	11.188	11.181	11.211	VV	969	11982	0.23%	0.017%
183	11.249	11.211	11.291	VV	236013	2463375	48.06%	3.570%
184	11.304	11.291	11.325	VV	2171	33052	0.64%	0.048%
185	11.340	11.325	11.370	VV	2060	39390	0.77%	0.057%
186	11.374	11.370	11.396	VV	1160	15474	0.30%	0.022%
187	11.422	11.396	11.438	VV	1283	25808	0.50%	0.037%
188	11.448	11.438	11.467	VV	1280	20085	0.39%	0.029%
189	11.484	11.467	11.520	VV	1449	34801	0.68%	0.050%
190	11.526	11.520	11.531	VV	644	3847	0.08%	0.006%
191	11.533	11.531	11.547	VV	637	5638	0.11%	0.008%
192	11.601	11.547	11.640	VV	1420	53764	1.05%	0.078%
193	11.643	11.640	11.648	VV	851	3824	0.07%	0.006%
194	11.673	11.648	11.697	VV	4798	68309	1.33%	0.099%

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195	11.712	11.697	11.740	VV	1087	21186	0.41%	0.031%
196	11.747	11.740	11.761	VV	633	6861	0.13%	0.010%
197	11.769	11.761	11.779	VV	746	6313	0.12%	0.009%
198	11.795	11.779	11.805	VV	822	10315	0.20%	0.015%
199	11.811	11.805	11.815	VV	799	4387	0.09%	0.006%
200	11.831	11.815	11.851	VV	982	18653	0.36%	0.027%
201	11.872	11.851	11.914	VV	3656	66880	1.30%	0.097%
202	11.920	11.914	11.943	VV	1043	13428	0.26%	0.019%
203	11.958	11.943	11.988	VV	720	16388	0.32%	0.024%
204	11.995	11.988	12.018	VV	563	8883	0.17%	0.013%
205	12.046	12.018	12.072	VV	858	23135	0.45%	0.034%
206	12.097	12.072	12.101	VV	1278	15672	0.31%	0.023%
207	12.120	12.101	12.146	VV	2456	39949	0.78%	0.058%
208	12.154	12.146	12.171	VV	757	9083	0.18%	0.013%
209	12.196	12.171	12.234	VV	1916	39569	0.77%	0.057%
210	12.253	12.234	12.283	VV	1704	32066	0.63%	0.046%
211	12.288	12.283	12.295	VV	749	4575	0.09%	0.007%
212	12.319	12.295	12.372	VV	2063	45772	0.89%	0.066%
213	12.387	12.372	12.406	VV	484	7629	0.15%	0.011%
214	12.418	12.406	12.435	VV	576	6578	0.13%	0.010%
215	12.441	12.435	12.467	VV	347	5257	0.10%	0.008%
216	12.504	12.474	12.521	VV	655	13277	0.26%	0.019%
217	12.525	12.521	12.558	VV	670	9715	0.19%	0.014%
218	12.567	12.558	12.586	VV	381	3874	0.08%	0.006%
219	12.625	12.586	12.639	PV	661	11854	0.23%	0.017%
220	12.692	12.639	12.723	VV	38887	474629	9.26%	0.688%
221	12.742	12.723	12.765	VV	822	17271	0.34%	0.025%
222	12.769	12.765	12.814	VV	685	11969	0.23%	0.017%
223	12.824	12.814	12.829	VV	276	2131	0.04%	0.003%
224	12.839	12.829	12.844	VV	272	1878	0.04%	0.003%
225	12.860	12.844	12.872	VV	548	5476	0.11%	0.008%
226	12.919	12.872	12.947	VV	2512	47534	0.93%	0.069%
227	12.955	12.947	12.970	VV	790	9380	0.18%	0.014%
228	12.975	12.970	12.997	VV	579	7514	0.15%	0.011%
229	13.005	12.997	13.015	VV	517	5150	0.10%	0.007%
230	13.037	13.015	13.075	VV	3426	51716	1.01%	0.075%
231	13.081	13.075	13.087	VV	526	3405	0.07%	0.005%
232	13.107	13.087	13.120	VV	1273	19181	0.37%	0.028%
233	13.128	13.120	13.169	VV	927	19107	0.37%	0.028%
234	13.173	13.169	13.186	VV	479	3230	0.06%	0.005%
235	13.213	13.186	13.225	VV	582	9327	0.18%	0.014%
236	13.267	13.225	13.302	VV	9686	125520	2.45%	0.182%
237	13.304	13.302	13.308	VV	465	1429	0.03%	0.002%
238	13.318	13.308	13.343	VV	513	8105	0.16%	0.012%
239	13.361	13.343	13.370	VV	549	6827	0.13%	0.010%
240	13.399	13.370	13.422	VV	2282	36810	0.72%	0.053%
241	13.445	13.422	13.477	VV	1305	21931	0.43%	0.032%
242	13.488	13.477	13.495	VV	422	3571	0.07%	0.005%
243	13.499	13.495	13.524	VV	347	4322	0.08%	0.006%
244	13.531	13.524	13.544	VV	277	2013	0.04%	0.003%
245	13.554	13.544	13.558	VV	311	1808	0.04%	0.003%
246	13.566	13.558	13.575	VV	371	2801	0.05%	0.004%

rteres

247	13.590	13.575	13.601	VV	291	2843	0.06%	0.004%
248	13.610	13.601	13.639	VV	279	3418	0.07%	0.005%
249	13.650	13.639	13.655	VV	334	2219	0.04%	0.003%
250	13.668	13.655	13.687	VV	386	4616	0.09%	0.007%
251	13.693	13.687	13.739	VV	340	6097	0.12%	0.009%
252	13.742	13.739	13.760	VV	213	2100	0.04%	0.003%
253	13.766	13.760	13.806	VV	322	5636	0.11%	0.008%
254	13.837	13.806	13.854	VV	599	10727	0.21%	0.016%
255	13.878	13.854	13.905	VV	904	16215	0.32%	0.023%
256	13.919	13.905	13.954	VV	375	9507	0.19%	0.014%
257	13.961	13.954	13.972	VV	443	3874	0.08%	0.006%
258	14.003	13.972	14.035	VV	1058	20755	0.40%	0.030%
259	14.043	14.035	14.063	VV	470	3829	0.07%	0.006%
260	14.068	14.063	14.081	VV	212	2244	0.04%	0.003%
261	14.097	14.081	14.102	VV	663	6136	0.12%	0.009%
262	14.106	14.102	14.119	VV	626	5558	0.11%	0.008%
263	14.132	14.119	14.149	VV	545	8075	0.16%	0.012%
264	14.171	14.149	14.202	VV	2599	35701	0.70%	0.052%
265	14.225	14.202	14.255	VV	1138	21052	0.41%	0.031%
266	14.263	14.255	14.274	VV	424	3485	0.07%	0.005%
267	14.305	14.274	14.340	VV	1287	25410	0.50%	0.037%
268	14.343	14.340	14.359	VV	482	3815	0.07%	0.006%
269	14.383	14.359	14.410	VV	7127	89660	1.75%	0.130%
270	14.441	14.410	14.460	VV	463	8155	0.16%	0.012%
271	14.472	14.460	14.480	VV	484	4764	0.09%	0.007%
272	14.502	14.480	14.524	VV	1579	24947	0.49%	0.036%
273	14.543	14.524	14.567	VV	2101	29987	0.59%	0.043%
274	14.586	14.567	14.609	VV	953	14368	0.28%	0.021%
275	14.613	14.609	14.617	VV	434	1700	0.03%	0.002%
276	14.645	14.617	14.671	VV	630	15526	0.30%	0.022%
277	14.679	14.671	14.700	VV	406	5488	0.11%	0.008%
278	14.709	14.700	14.715	VV	443	3105	0.06%	0.005%
279	14.726	14.715	14.736	VV	425	4328	0.08%	0.006%
280	14.742	14.736	14.765	VV	416	5080	0.10%	0.007%
281	14.772	14.765	14.784	VV	454	3940	0.08%	0.006%
282	14.787	14.784	14.798	VV	376	2007	0.04%	0.003%
283	14.809	14.798	14.820	PV	318	3005	0.06%	0.004%
284	14.825	14.820	14.836	VV	340	2490	0.05%	0.004%
285	14.841	14.836	14.849	VV	277	1708	0.03%	0.002%
286	14.853	14.849	14.861	VV	246	1173	0.02%	0.002%
287	14.880	14.861	14.892	VV	307	2896	0.06%	0.004%
288	14.920	14.892	15.033	VV	6707	170783	3.33%	0.247%
289	15.071	15.033	15.104	VV	3288	66315	1.29%	0.096%
290	15.119	15.104	15.150	VV	440	7980	0.16%	0.012%
291	15.161	15.150	15.170	VV	303	2454	0.05%	0.004%
292	15.183	15.170	15.197	VV	380	4817	0.09%	0.007%
293	15.208	15.197	15.225	VV	428	6066	0.12%	0.009%
294	15.228	15.225	15.240	VV	424	2576	0.05%	0.004%
295	15.274	15.240	15.310	VV	547	13833	0.27%	0.020%
296	15.314	15.310	15.323	VV	367	2475	0.05%	0.004%
297	15.327	15.323	15.340	VV	492	3351	0.07%	0.005%
298	15.345	15.340	15.352	VV	454	2383	0.05%	0.003%
299	15.368	15.352	15.375	VV	494	5110	0.10%	0.007%

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300	15.377	15.375	15.404	VV	589	5281	0.10%	0.008%
301	15.422	15.404	15.432	VV	591	7777	0.15%	0.011%
302	15.446	15.432	15.475	VV	500	9397	0.18%	0.014%
303	15.480	15.475	15.488	VV	293	1555	0.03%	0.002%
304	15.519	15.488	15.531	VV	723	10509	0.21%	0.015%
305	15.558	15.531	15.601	VV	2966	47082	0.92%	0.068%
306	15.605	15.601	15.608	VV	500	1855	0.04%	0.003%
307	15.613	15.608	15.628	VV	594	4937	0.10%	0.007%

Sum of corrected areas: 69004061

Aromatic EPH 111424.M Tue Nov 19 06:45:29 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-1			SDG No.:	P4839
Lab Sample ID:	P4839-14			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84.9
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 17:48	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.18	mg/kg	FE051268.D
Aliphatic C12-C16	Aliphatic C12-C16	1.63		1	0.28	0.79	mg/kg	FE051268.D
Aliphatic C16-C21	Aliphatic C16-C21	0.74	J	1	0.35	1.18	mg/kg	FE051268.D
Aliphatic C21-C28	Aliphatic C21-C28	0.94	U	1	0.94	1.57	mg/kg	FE051268.D
Aliphatic C28-C40	Aliphatic C28-C40	2.45		1	2.12	2.35	mg/kg	FE051268.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.79	mg/kg	FF015060.D
Aromatic C12-C16	Aromatic C12-C16	4.54		1	0.40	1.18	mg/kg	FF015060.D
Aromatic C16-C21	Aromatic C16-C21	4.85		1	1.13	1.96	mg/kg	FF015060.D
Aromatic C21-C36	Aromatic C21-C36	2.35	U	1	2.35	3.14	mg/kg	FF015060.D
Total AliphaticEPH	Total AliphaticEPH	4.82	J		4.14	7.07	mg/kg	
Total AromaticEPH	Total AromaticEPH	9.39			4.23	7.07	mg/kg	
Total EPH	Total EPH	14.2			8.38	14.1	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-1			SDG No.:	P4839
Lab Sample ID:	P4839-14			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84.9
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 17:48	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.18	mg/kg	FE051268.D
Aliphatic C12-C16	Aliphatic C12-C16	1.63		1	0.28	0.79	mg/kg	FE051268.D
Aliphatic C16-C21	Aliphatic C16-C21	0.74	J	1	0.35	1.18	mg/kg	FE051268.D
Aliphatic C21-C28	Aliphatic C21-C28	0.94	U	1	0.94	1.57	mg/kg	FE051268.D
Aliphatic C28-C40	Aliphatic C28-C40	2.45		1	2.12	2.35	mg/kg	FE051268.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.79	mg/kg	FF015060.D
Aromatic C12-C16	Aromatic C12-C16	4.54		1	0.40	1.18	mg/kg	FF015060.D
Aromatic C16-C21	Aromatic C16-C21	4.85		1	1.13	1.96	mg/kg	FF015060.D
Aromatic C21-C36	Aromatic C21-C36	2.35	U	1	2.35	3.14	mg/kg	FF015060.D
Total AliphaticEPH	Total AliphaticEPH	4.82	J		4.14	7.07	mg/kg	
Total AromaticEPH	Total AromaticEPH	9.39			4.23	7.07	mg/kg	
Total EPH	Total EPH	14.2			8.38	14.1	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-1			SDG No.:	P4839
Lab Sample ID:	P4839-14			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84.9
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
FE051268.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.45	U	0.45	1.18	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		1.63		0.28	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.74	J	0.35	1.18	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.94	U	0.94	1.57	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		2.45		2.12	2.35	mg/kg
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

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-14	Acq On:	15 Nov 2024 17:48
Client Sample ID:	EX-10-TPH-1	Operator:	YP\AJ
Data file:	FE051268.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	726689	5.194	300	ug/ml
Aliphatic C12-C16	6.754	10.185	2914803	20.726	200	ug/ml
Aliphatic C16-C21	10.186	13.544	1305385	9.475	300	ug/ml
Aliphatic C21-C28	13.545	17.200	843422	6.296	400	ug/ml
Aliphatic C28-C40	17.201	22.043	4019367	31.219	600	ug/ml
Aliphatic EPH	3.134	22.043	9809666	72.91		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	4130935	36.39		ug/ml
Aliphatic C9-C28	3.134	17.200	5790299	41.691	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051268.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 17:48
Operator : YP\AJ
Sample : P4839-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-1

Integration File: autoint1.e
Quant Time: Nov 16 08:20:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	4130935	36.386 ug/ml
Spiked Amount 50.000		Recovery = 72.77%	
Target Compounds			

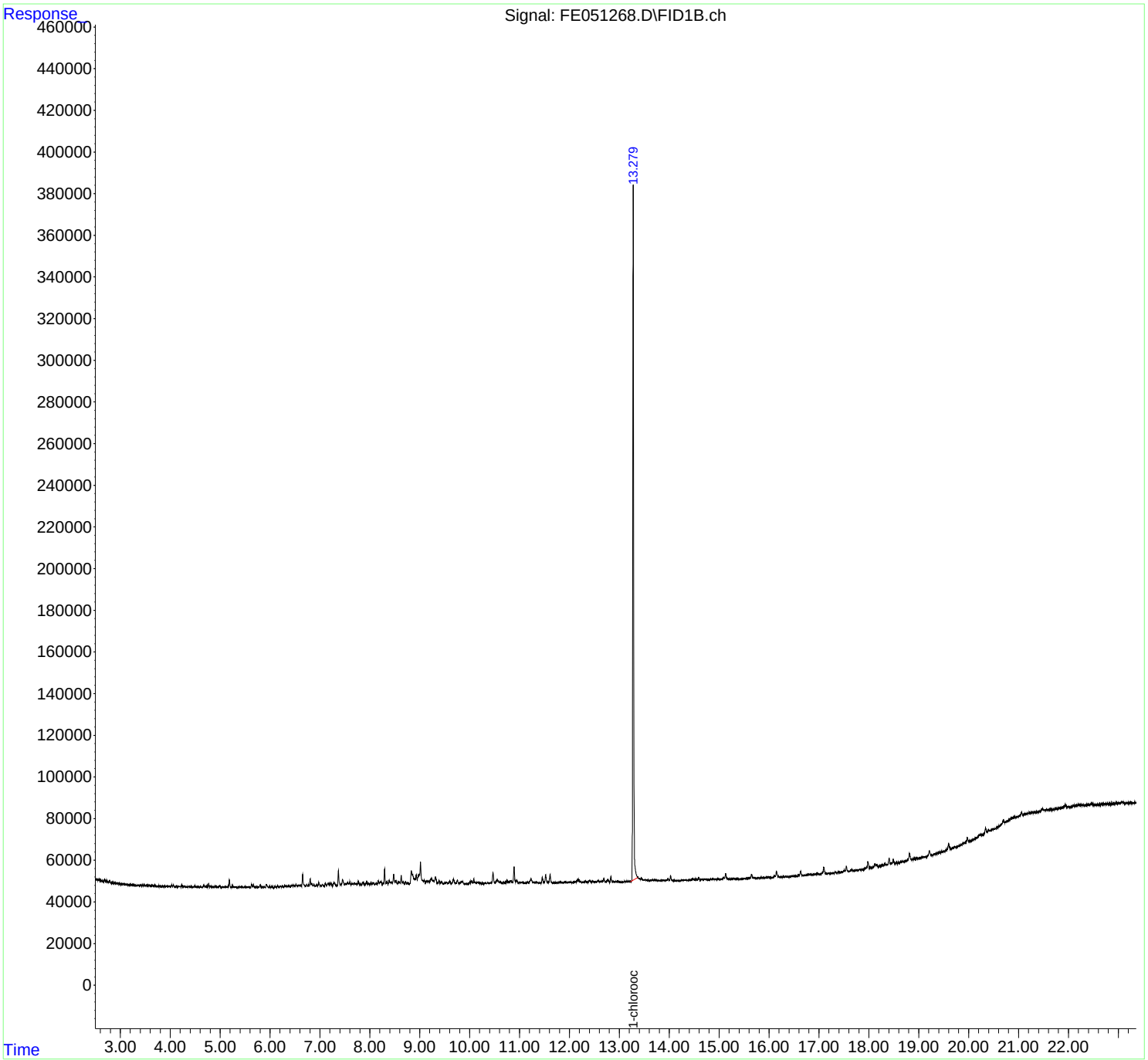
(f)=RT Delta > 1/2 Window (m)=manual int.

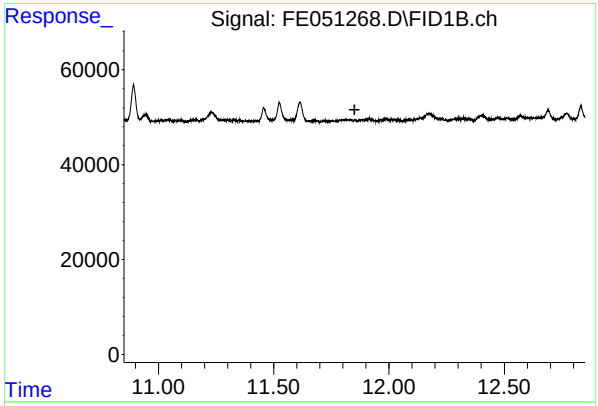
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051268.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 17:48
Operator : YP\AJ
Sample : P4839-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-1

Integration File: autoint1.e
Quant Time: Nov 16 08:20:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

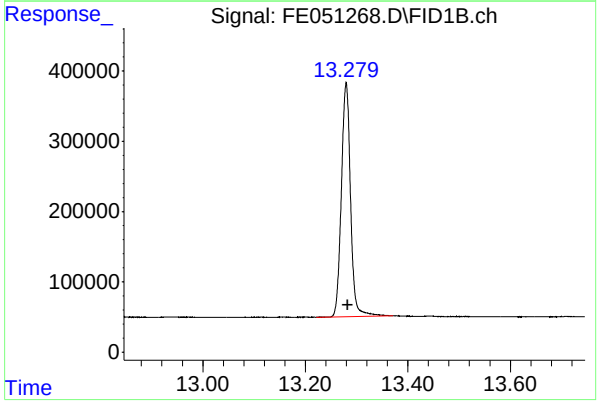




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 4130935
Conc: 36.39 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051268.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 17:48
Sample : P4839-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.245	3.214	3.371	BV	198	2933	0.07%	0.021%
2	3.378	3.371	3.438	PV	145	3518	0.08%	0.025%
3	3.450	3.438	3.468	VV	127	1872	0.04%	0.013%
4	3.475	3.468	3.534	VV	136	3423	0.08%	0.024%
5	3.550	3.534	3.564	VV	216	2551	0.06%	0.018%
6	3.573	3.564	3.607	VV	203	3737	0.09%	0.027%
7	3.627	3.607	3.663	VV	333	4630	0.11%	0.033%
8	3.683	3.663	3.802	VV	325	8792	0.21%	0.062%
9	3.819	3.802	3.855	PV	95	1846	0.04%	0.013%
10	3.866	3.855	3.883	VV	176	1476	0.03%	0.010%
11	3.932	3.883	3.994	PV	208	5493	0.13%	0.039%
12	4.028	4.001	4.045	BV	617	7338	0.17%	0.052%
13	4.062	4.045	4.114	VV	698	10097	0.24%	0.072%
14	4.132	4.114	4.159	VV	160	2056	0.05%	0.015%
15	4.195	4.159	4.206	PV	210	2491	0.06%	0.018%
16	4.230	4.206	4.351	VV	766	15673	0.37%	0.111%
17	4.379	4.351	4.409	PV	254	4658	0.11%	0.033%
18	4.428	4.409	4.451	VV	225	3454	0.08%	0.025%
19	4.491	4.451	4.538	VV	586	10609	0.25%	0.075%
20	4.557	4.538	4.585	VV	204	2716	0.06%	0.019%
21	4.612	4.585	4.636	PV	403	4727	0.11%	0.034%
22	4.674	4.636	4.721	VV	1100	19826	0.46%	0.141%
23	4.737	4.721	4.754	VV	795	8939	0.21%	0.063%
24	4.770	4.754	4.868	VV	1855	33495	0.78%	0.238%
25	4.904	4.868	4.937	VV	649	15666	0.37%	0.111%
26	4.948	4.937	4.973	VV	375	5993	0.14%	0.043%
27	4.993	4.973	5.028	VV	652	11018	0.26%	0.078%
28	5.060	5.028	5.081	VV	235	4466	0.10%	0.032%
29	5.098	5.081	5.115	VV	523	6348	0.15%	0.045%
30	5.125	5.115	5.138	VV	345	3784	0.09%	0.027%
31	5.185	5.138	5.221	VV	3766	53031	1.24%	0.376%
32	5.246	5.221	5.275	VV	1096	16746	0.39%	0.119%
33	5.285	5.275	5.295	VV	295	3043	0.07%	0.022%
34	5.305	5.295	5.341	VV	292	4570	0.11%	0.032%
35	5.365	5.341	5.381	PV	299	4155	0.10%	0.029%
36	5.399	5.381	5.474	VV	601	18549	0.43%	0.132%

rteres

37	5.497	5.474	5.510	VV	528	8047	0.19%	0.057%
38	5.524	5.510	5.574	VV	414	11346	0.27%	0.081%
39	5.585	5.574	5.603	VV	334	3859	0.09%	0.027%
40	5.630	5.603	5.651	VV	1619	22443	0.52%	0.159%
41	5.665	5.651	5.688	VV	1464	17569	0.41%	0.125%
42	5.697	5.688	5.710	VV	375	3987	0.09%	0.028%
43	5.726	5.710	5.760	VV	451	9720	0.23%	0.069%
44	5.771	5.760	5.781	VV	350	3656	0.09%	0.026%
45	5.801	5.781	5.844	VV	1503	27331	0.64%	0.194%
46	5.856	5.844	5.869	VV	346	4417	0.10%	0.031%
47	5.884	5.869	5.901	VV	565	6721	0.16%	0.048%
48	5.929	5.901	5.965	VV	1693	29584	0.69%	0.210%
49	5.990	5.965	6.017	VV	752	12232	0.29%	0.087%
50	6.051	6.017	6.077	VV	555	12939	0.30%	0.092%
51	6.100	6.077	6.134	PV	814	12971	0.30%	0.092%
52	6.151	6.134	6.170	VV	934	12797	0.30%	0.091%
53	6.205	6.170	6.231	VV	623	15054	0.35%	0.107%
54	6.249	6.231	6.267	VV	619	9454	0.22%	0.067%
55	6.297	6.267	6.321	VV	911	16848	0.39%	0.120%
56	6.337	6.321	6.348	VV	599	6969	0.16%	0.049%
57	6.371	6.348	6.404	VV	576	13321	0.31%	0.095%
58	6.441	6.404	6.461	VV	923	17693	0.41%	0.126%
59	6.477	6.461	6.504	VV	704	12690	0.30%	0.090%
60	6.523	6.504	6.548	VV	1060	15201	0.36%	0.108%
61	6.575	6.548	6.590	VV	518	11773	0.28%	0.084%
62	6.602	6.590	6.630	VV	456	8580	0.20%	0.061%
63	6.654	6.630	6.701	VBA	5789	75270	1.76%	0.534%
64	6.737	6.701	6.760	BV	711	10498	0.25%	0.075%
65	6.775	6.760	6.786	PV	724	5868	0.14%	0.042%
66	6.805	6.786	6.826	VV	3604	44012	1.03%	0.312%
67	6.838	6.826	6.860	VV	1335	15125	0.35%	0.107%
68	6.878	6.860	6.901	VV	922	10323	0.24%	0.073%
69	6.912	6.901	6.921	VV	248	2362	0.06%	0.017%
70	6.938	6.921	6.958	VV	541	8061	0.19%	0.057%
71	6.978	6.958	7.028	VV	1844	27804	0.65%	0.197%
72	7.046	7.028	7.086	VV	756	11063	0.26%	0.079%
73	7.108	7.086	7.135	PV	1179	18268	0.43%	0.130%
74	7.182	7.135	7.198	VV	1240	34931	0.82%	0.248%
75	7.221	7.198	7.251	VV	1414	27377	0.64%	0.194%
76	7.287	7.251	7.344	VV	1549	39210	0.92%	0.278%
77	7.371	7.344	7.408	PV	7545	97554	2.28%	0.692%
78	7.426	7.408	7.435	VV	1084	13907	0.32%	0.099%
79	7.453	7.435	7.489	VV	3246	60016	1.40%	0.426%
80	7.513	7.489	7.524	VV	1004	18391	0.43%	0.131%
81	7.558	7.524	7.575	VV	1522	34067	0.80%	0.242%
82	7.600	7.575	7.622	VV	2071	35956	0.84%	0.255%
83	7.654	7.622	7.672	VV	1038	26198	0.61%	0.186%
84	7.688	7.672	7.707	VV	1424	22265	0.52%	0.158%
85	7.723	7.707	7.743	VV	1057	20049	0.47%	0.142%
86	7.771	7.743	7.798	VV	2417	45141	1.05%	0.320%
87	7.814	7.798	7.837	VV	694	11466	0.27%	0.081%
88	7.861	7.837	7.898	VV	1808	36443	0.85%	0.259%
89	7.938	7.898	7.955	VV	2271	41466	0.97%	0.294%

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90	7.968	7.955	8.002	VV	1035	22021	0.51%	0.156%
91	8.028	8.002	8.048	VV	1731	27313	0.64%	0.194%
92	8.077	8.048	8.095	VV	1095	25696	0.60%	0.182%
93	8.127	8.095	8.145	VV	1054	23261	0.54%	0.165%
94	8.172	8.145	8.190	VV	2180	37509	0.88%	0.266%
95	8.228	8.190	8.250	VV	2009	48504	1.13%	0.344%
96	8.297	8.250	8.321	VV	8001	111005	2.59%	0.788%
97	8.343	8.321	8.366	VV	1948	37353	0.87%	0.265%
98	8.387	8.366	8.406	VV	2569	40258	0.94%	0.286%
99	8.417	8.406	8.458	VV	1476	41895	0.98%	0.297%
100	8.479	8.458	8.510	VV	5223	88103	2.06%	0.625%
101	8.525	8.510	8.548	VV	2387	36910	0.86%	0.262%
102	8.574	8.548	8.584	VV	1619	26907	0.63%	0.191%
103	8.593	8.584	8.608	VV	1593	19229	0.45%	0.136%
104	8.631	8.608	8.658	VV	4721	69882	1.63%	0.496%
105	8.671	8.658	8.694	VV	1380	24804	0.58%	0.176%
106	8.717	8.694	8.748	VV	1339	32775	0.77%	0.233%
107	8.768	8.748	8.794	VV	1056	22840	0.53%	0.162%
108	8.833	8.794	8.911	VV	6735	256368	5.99%	1.819%
109	8.930	8.911	8.950	VV	4930	83536	1.95%	0.593%
110	9.017	8.950	9.074	VV	10935	328018	7.66%	2.328%
111	9.090	9.074	9.116	VV	2374	45229	1.06%	0.321%
112	9.135	9.116	9.148	VV	1724	29331	0.69%	0.208%
113	9.163	9.148	9.180	VV	2091	34077	0.80%	0.242%
114	9.237	9.180	9.278	VV	3016	124921	2.92%	0.887%
115	9.316	9.278	9.368	VV	3885	108818	2.54%	0.772%
116	9.389	9.368	9.413	VV	2138	37681	0.88%	0.267%
117	9.438	9.413	9.473	VV	1240	30467	0.71%	0.216%
118	9.505	9.473	9.518	VV	981	19808	0.46%	0.141%
119	9.540	9.518	9.574	VV	1199	30004	0.70%	0.213%
120	9.604	9.574	9.631	VV	1604	35929	0.84%	0.255%
121	9.673	9.631	9.714	VV	2509	64575	1.51%	0.458%
122	9.756	9.714	9.791	VV	1934	45128	1.05%	0.320%
123	9.811	9.791	9.824	VV	982	16750	0.39%	0.119%
124	9.839	9.824	9.851	VV	1396	19000	0.44%	0.135%
125	9.862	9.851	9.901	VV	1416	21926	0.51%	0.156%
126	9.921	9.901	9.944	VV	371	7725	0.18%	0.055%
127	9.952	9.944	9.973	VV	316	3974	0.09%	0.028%
128	10.005	9.973	10.018	VV	1070	16694	0.39%	0.118%
129	10.038	10.018	10.065	VV	1550	29975	0.70%	0.213%
130	10.085	10.065	10.127	VV	2690	45752	1.07%	0.325%
131	10.160	10.127	10.170	VV	816	18390	0.43%	0.131%
132	10.183	10.170	10.221	VV	831	17139	0.40%	0.122%
133	10.254	10.221	10.274	VV	414	9841	0.23%	0.070%
134	10.317	10.274	10.340	VV	662	16459	0.38%	0.117%
135	10.361	10.340	10.381	VV	687	10281	0.24%	0.073%
136	10.400	10.381	10.418	VV	525	9970	0.23%	0.071%
137	10.431	10.418	10.441	VV	600	7551	0.18%	0.054%
138	10.470	10.441	10.498	VV	5385	84999	1.99%	0.603%
139	10.553	10.498	10.598	VV	1878	69577	1.63%	0.494%
140	10.616	10.598	10.648	VV	1193	22875	0.53%	0.162%
141	10.681	10.648	10.693	VV	605	12798	0.30%	0.091%

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142	10.716	10.693	10.730	VV	778	14631	0.34%	0.104%
143	10.754	10.730	10.784	VV	1475	32124	0.75%	0.228%
144	10.823	10.784	10.858	VV	1638	43133	1.01%	0.306%
145	10.893	10.858	10.921	VV	7994	121244	2.83%	0.860%
146	10.945	10.921	10.978	VV	1811	35935	0.84%	0.255%
147	11.012	10.978	11.020	VV	552	11417	0.27%	0.081%
148	11.042	11.020	11.065	VV	707	14948	0.35%	0.106%
149	11.076	11.065	11.124	VV	501	13828	0.32%	0.098%
150	11.156	11.124	11.176	VV	622	14336	0.33%	0.102%
151	11.231	11.176	11.291	VV	2130	68877	1.61%	0.489%
152	11.303	11.291	11.316	VV	495	7199	0.17%	0.051%
153	11.327	11.316	11.344	VV	625	7770	0.18%	0.055%
154	11.349	11.344	11.370	VV	431	5109	0.12%	0.036%
155	11.384	11.370	11.401	VV	325	4437	0.10%	0.031%
156	11.457	11.401	11.494	VV	3000	51171	1.20%	0.363%
157	11.525	11.494	11.568	VV	4133	65878	1.54%	0.468%
158	11.614	11.568	11.668	VV	4243	74415	1.74%	0.528%
159	11.678	11.668	11.702	VV	354	4051	0.09%	0.029%
160	11.723	11.702	11.740	PV	253	3019	0.07%	0.021%
161	11.750	11.740	11.763	VV	129	1695	0.04%	0.012%
162	11.831	11.763	11.864	VV	473	17818	0.42%	0.126%
163	11.913	11.864	11.945	VV	625	17159	0.40%	0.122%
164	11.988	11.945	12.005	VV	572	11720	0.27%	0.083%
165	12.021	12.005	12.057	VV	433	8657	0.20%	0.061%
166	12.093	12.057	12.103	VV	349	7370	0.17%	0.052%
167	12.172	12.103	12.255	VV	1634	65161	1.52%	0.462%
168	12.325	12.255	12.368	VV	623	23631	0.55%	0.168%
169	12.402	12.368	12.436	VV	1151	25882	0.60%	0.184%
170	12.473	12.436	12.498	VV	592	14634	0.34%	0.104%
171	12.514	12.498	12.537	VV	466	8254	0.19%	0.059%
172	12.570	12.537	12.633	VV	1049	32979	0.77%	0.234%
173	12.690	12.633	12.728	VV	2047	45220	1.06%	0.321%
174	12.771	12.728	12.807	VV	1454	31878	0.74%	0.226%
175	12.832	12.807	12.908	VV	2829	47214	1.10%	0.335%
176	12.941	12.908	12.968	VV	518	12948	0.30%	0.092%
177	12.973	12.968	13.025	VV	306	4588	0.11%	0.033%
178	13.115	13.025	13.144	PV	275	8018	0.19%	0.057%
179	13.159	13.144	13.179	VV	375	4470	0.10%	0.032%
180	13.195	13.179	13.222	VV	306	4651	0.11%	0.033%
181	13.280	13.222	13.424	VV	333746	4280980	100.00%	30.382%
182	13.443	13.424	13.481	VV	1746	40877	0.95%	0.290%
183	13.491	13.481	13.498	VV	905	9047	0.21%	0.064%
184	13.514	13.498	13.544	VV	982	23641	0.55%	0.168%
185	13.552	13.544	13.620	VV	761	28484	0.67%	0.202%
186	13.662	13.620	13.687	VV	739	22791	0.53%	0.162%
187	13.711	13.687	13.769	VV	861	27946	0.65%	0.198%
188	13.792	13.769	13.814	VV	400	9113	0.21%	0.065%
189	13.822	13.814	13.841	VV	410	5888	0.14%	0.042%
190	13.886	13.841	13.911	VV	545	16878	0.39%	0.120%
191	13.938	13.911	13.954	VV	648	11263	0.26%	0.080%
192	13.977	13.954	14.004	VV	1252	21151	0.49%	0.150%
193	14.027	14.004	14.151	VV	2697	47387	1.11%	0.336%
194	14.165	14.151	14.212	VV	227	4342	0.10%	0.031%

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195	14.257	14.212	14.288	PV	505	11019	0.26%	0.078%
196	14.323	14.288	14.378	VV	269	9661	0.23%	0.069%
197	14.392	14.378	14.401	VV	243	2463	0.06%	0.017%
198	14.416	14.401	14.425	VV	235	2881	0.07%	0.020%
199	14.471	14.425	14.499	VV	1076	22658	0.53%	0.161%
200	14.537	14.499	14.564	VV	593	16459	0.38%	0.117%
201	14.590	14.564	14.638	VV	1420	24098	0.56%	0.171%
202	14.654	14.638	14.686	VV	361	7559	0.18%	0.054%
203	14.720	14.686	14.732	VV	500	10830	0.25%	0.077%
204	14.738	14.732	14.778	VV	451	7327	0.17%	0.052%
205	14.788	14.778	14.814	VV	228	3548	0.08%	0.025%
206	14.835	14.814	14.856	VV	398	7179	0.17%	0.051%
207	14.882	14.856	14.931	VV	406	14024	0.33%	0.100%
208	14.941	14.931	14.954	VV	330	3473	0.08%	0.025%
209	14.977	14.954	15.011	VV	367	8614	0.20%	0.061%
210	15.086	15.011	15.103	VV	1196	22712	0.53%	0.161%
211	15.129	15.103	15.191	VV	3011	55679	1.30%	0.395%
212	15.200	15.191	15.218	VV	269	3001	0.07%	0.021%
213	15.266	15.218	15.281	VV	285	7312	0.17%	0.052%
214	15.298	15.281	15.356	VV	411	10210	0.24%	0.072%
215	15.369	15.356	15.399	VV	225	3614	0.08%	0.026%
216	15.435	15.399	15.489	PV	190	5001	0.12%	0.035%
217	15.510	15.489	15.524	VV	155	2315	0.05%	0.016%
218	15.563	15.524	15.578	VV	281	6738	0.16%	0.048%
219	15.607	15.578	15.622	VV	398	7946	0.19%	0.056%
220	15.648	15.622	15.751	VV	2151	45069	1.05%	0.320%
221	15.783	15.751	15.804	PV	341	6344	0.15%	0.045%
222	15.856	15.804	15.881	VV	275	8467	0.20%	0.060%
223	15.889	15.881	15.914	VV	224	3440	0.08%	0.024%
224	15.924	15.914	15.934	VV	190	1964	0.05%	0.014%
225	15.967	15.934	16.063	VV	568	22157	0.52%	0.157%
226	16.111	16.063	16.125	VV	955	17143	0.40%	0.122%
227	16.149	16.125	16.248	VV	3104	60903	1.42%	0.432%
228	16.285	16.248	16.308	VV	236	5288	0.12%	0.038%
229	16.343	16.308	16.371	VV	458	10282	0.24%	0.073%
230	16.386	16.371	16.396	PV	219	1824	0.04%	0.013%
231	16.408	16.396	16.414	VV	115	988	0.02%	0.007%
232	16.458	16.414	16.489	VV	291	8715	0.20%	0.062%
233	16.505	16.489	16.561	VV	237	6806	0.16%	0.048%
234	16.632	16.561	16.664	PV	2357	45927	1.07%	0.326%
235	16.670	16.664	16.691	VV	353	3757	0.09%	0.027%
236	16.709	16.691	16.731	VV	254	4511	0.11%	0.032%
237	16.797	16.731	16.811	VV	482	13858	0.32%	0.098%
238	16.852	16.811	16.874	VV	370	10771	0.25%	0.076%
239	16.901	16.874	16.916	VV	339	5167	0.12%	0.037%
240	16.954	16.916	16.998	VV	410	13043	0.30%	0.093%
241	17.009	16.998	17.015	VV	161	1295	0.03%	0.009%
242	17.097	17.015	17.134	VV	3357	67838	1.58%	0.481%
243	17.146	17.134	17.162	VV	234	2708	0.06%	0.019%
244	17.188	17.162	17.197	PV	323	3593	0.08%	0.025%
245	17.207	17.197	17.244	VV	280	3340	0.08%	0.024%
246	17.267	17.244	17.278	PV	175	1723	0.04%	0.012%

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247	17.335	17.278	17.360	VV	606	12051	0.28%	0.086%
248	17.418	17.360	17.434	PV	326	7049	0.16%	0.050%
249	17.459	17.434	17.473	VV	262	5228	0.12%	0.037%
250	17.507	17.473	17.528	VV	972	18097	0.42%	0.128%
251	17.549	17.528	17.598	VV	2729	44362	1.04%	0.315%
252	17.655	17.598	17.687	VV	633	18322	0.43%	0.130%
253	17.698	17.687	17.708	VV	157	1468	0.03%	0.010%
254	17.744	17.708	17.768	VV	318	4947	0.12%	0.035%
255	17.775	17.768	17.788	VV	165	1040	0.02%	0.007%
256	17.829	17.788	17.850	VV	385	7728	0.18%	0.055%
257	17.876	17.850	17.894	PV	316	4572	0.11%	0.032%
258	17.983	17.894	18.024	VV	3336	66390	1.55%	0.471%
259	18.030	18.024	18.058	VV	347	3535	0.08%	0.025%
260	18.121	18.058	18.139	VV	1660	29764	0.70%	0.211%
261	18.148	18.139	18.198	VV	1045	19021	0.44%	0.135%
262	18.264	18.198	18.285	VV	587	11837	0.28%	0.084%
263	18.325	18.285	18.344	VV	688	12963	0.30%	0.092%
264	18.406	18.344	18.434	VV	3211	56626	1.32%	0.402%
265	18.489	18.434	18.538	VV	1981	39145	0.91%	0.278%
266	18.676	18.538	18.699	VV	277	9564	0.22%	0.068%
267	18.721	18.699	18.731	VV	143	2172	0.05%	0.015%
268	18.815	18.731	18.891	PV	3524	81540	1.90%	0.579%
269	18.911	18.891	18.930	VV	645	8812	0.21%	0.063%
270	18.961	18.930	18.978	VV	416	6670	0.16%	0.047%
271	19.114	18.978	19.130	VV	166	8932	0.21%	0.063%
272	19.212	19.130	19.258	PV	2589	48627	1.14%	0.345%
273	19.599	19.258	19.660	PV	3043	71211	1.66%	0.505%
274	19.720	19.660	19.750	VV	486	11201	0.26%	0.079%
275	19.895	19.750	19.911	PV	787	29802	0.70%	0.212%
276	19.974	19.911	20.010	VV	2754	72247	1.69%	0.513%
277	20.241	20.010	20.264	VV	2022	170046	3.97%	1.207%
278	20.338	20.264	20.370	VV	4160	149153	3.48%	1.059%
279	20.404	20.370	20.431	VV	2703	89115	2.08%	0.632%
280	20.486	20.431	20.510	VV	2537	110590	2.58%	0.785%
281	20.693	20.510	20.724	VV	5063	398897	9.32%	2.831%
282	20.871	20.724	20.894	VV	4674	425204	9.93%	3.018%
283	20.919	20.894	20.937	VV	4609	114618	2.68%	0.813%
284	21.060	20.937	21.090	VV	5841	419622	9.80%	2.978%
285	21.198	21.090	21.217	VV	4225	315387	7.37%	2.238%
286	21.286	21.217	21.298	VV	3771	185862	4.34%	1.319%
287	21.316	21.298	21.341	VV	3609	92850	2.17%	0.659%
288	21.411	21.341	21.424	VV	3128	158615	3.71%	1.126%
289	21.475	21.424	21.534	VV	3844	211012	4.93%	1.498%
290	21.542	21.534	21.548	VV	2794	21980	0.51%	0.156%
291	21.581	21.548	21.607	VV	2673	91926	2.15%	0.652%
292	21.645	21.607	21.671	VV	2237	82358	1.92%	0.584%
293	21.698	21.671	21.711	VV	1767	42226	0.99%	0.300%
294	21.939	21.711	21.988	VV	1770	212087	4.95%	1.505%
295	21.998	21.988	22.039	VV	487	7833	0.18%	0.056%

Sum of corrected areas: 14090644

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-1		SDG No.:	P4839	
Lab Sample ID:	P4839-14		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.9	
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
FF015060.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	4.54		0.40	1.18	mg/kg
Aromatic C16-C21	Aromatic C16-C21	4.85		1.13	1.96	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.35	U	2.35	3.14	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	53.2		40 - 140	106%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	49.2		40 - 140	98%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.2		40 - 140	62%	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:	P4839-14	Acq On:	15 Nov 2024 14:43
Client Sample ID:	EX-10-TPH-1	Operator:	YP\AJ
Data file:	FF015060.D	Misc:	
Instrument:	FID_F	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	498898	3.647	200	ug/ml
Aromatic C12-C16	6.372	9.062	7807761	57.826	300	ug/ml
Aromatic C16-C21	9.063	13.374	7907594	61.829	500	ug/ml
Aromatic C21-C36	13.375	18.817	2158922	17.715	800	ug/ml
Aromatic EPH	4.507	18.817	18373175	141.017		ug/ml
2-Bromonaphthalene (SURR)	7.991	7.991	6491942	53.16		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	4013185	49.16		ug/ml
ortho-Terphenyl (SURR)	11.925	11.925	4181448	31.17		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015060.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 14:43
Operator : YP\AJ
Sample : P4839-14
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-1

Integration File: autoint1.e
Quant Time: Nov 15 15:12:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.991	6491942	53.162 ug/ml
Spiked Amount 50.000		Recovery = 106.32%	
6) S 2-Flurobiphenyl (SURR)	8.865	4013185	49.156 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 98.31%	
11) S ortho-Terphenyl (SURR)	11.925	4181448	31.171 ug/ml
Spiked Amount 50.000		Recovery = 62.34%	
Target Compounds			

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

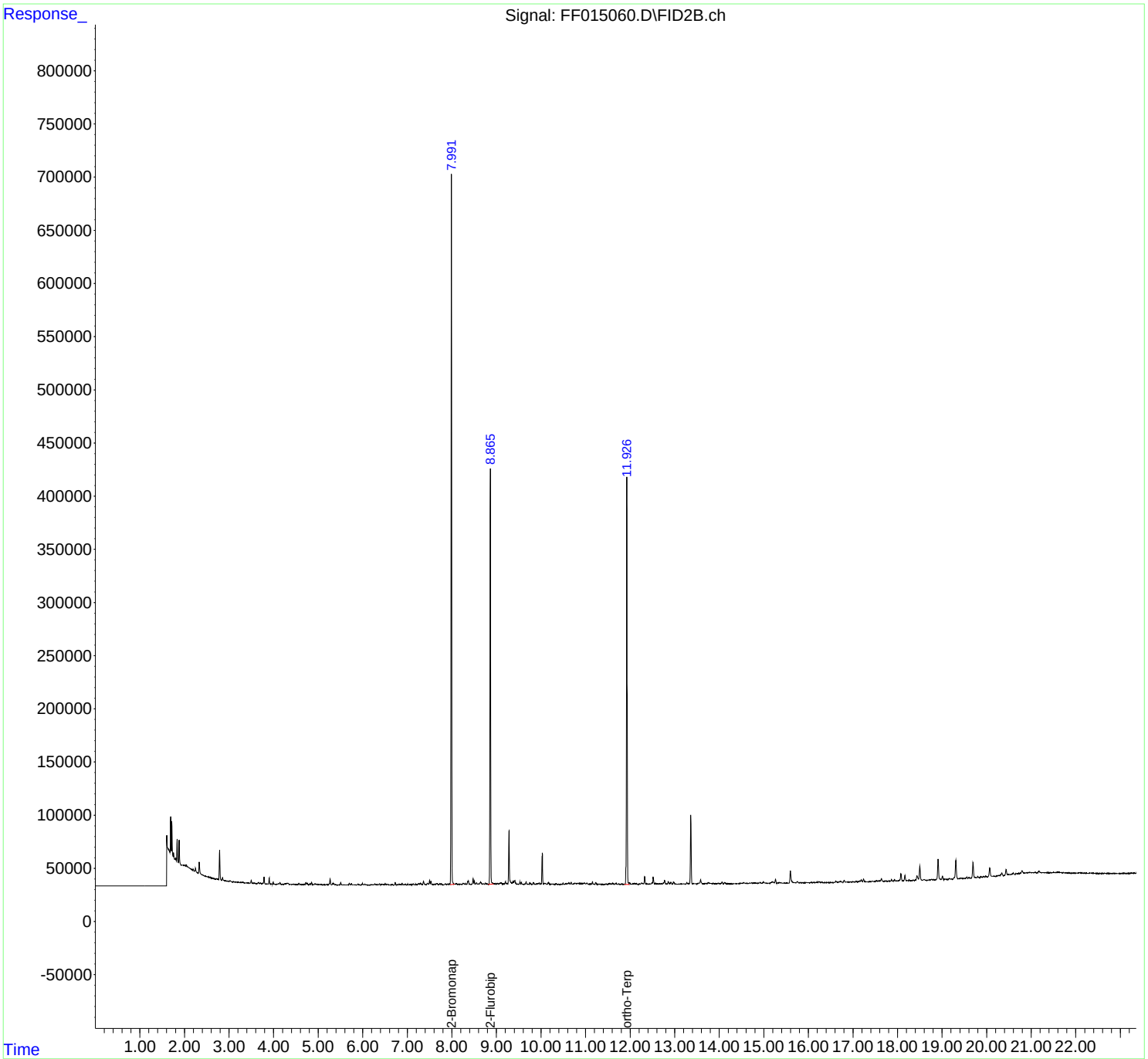
Quantitation Report (QT Reviewed)

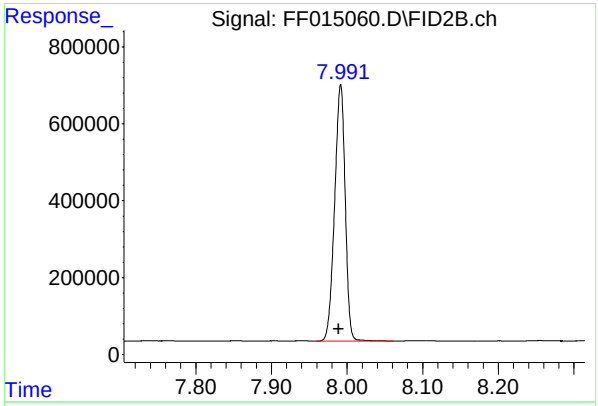
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015060.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 14:43
Operator : YP\AJ
Sample : P4839-14
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-1

Integration File: autoint1.e
Quant Time: Nov 15 15:12:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

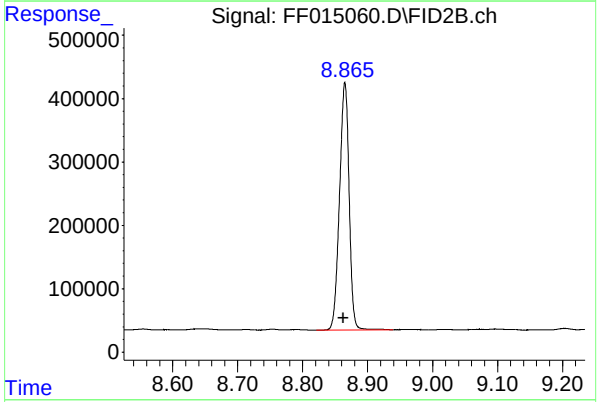




#4 2-Bromonaphthalene (SURR)

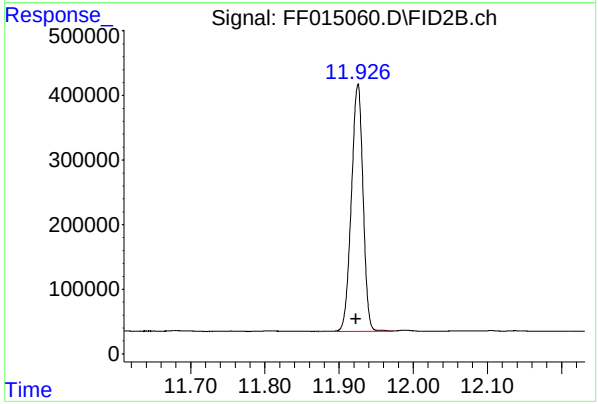
R.T.: 7.991 min
Delta R.T.: 0.002 min
Response: 6491942
Conc: 53.16 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-1



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.003 min
Response: 4013185
Conc: 49.16 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.002 min
Response: 4181448
Conc: 31.17 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015060.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 14:43
Sample : P4839-14
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.428	4.401	4.441	BV	247	1842	0.03%	0.008%
2	4.454	4.441	4.468	VV	267	2132	0.03%	0.010%
3	4.472	4.468	4.499	VV	128	1038	0.02%	0.005%
4	4.513	4.499	4.536	VV	380	4056	0.06%	0.018%
5	4.569	4.544	4.590	VV	1421	16024	0.25%	0.072%
6	4.604	4.590	4.628	VV	249	3369	0.05%	0.015%
7	4.653	4.628	4.669	VV	183	2653	0.04%	0.012%
8	4.696	4.669	4.706	PV	470	5209	0.08%	0.023%
9	4.725	4.706	4.742	VV	2107	24781	0.38%	0.111%
10	4.757	4.742	4.780	VV	1629	18368	0.28%	0.082%
11	4.789	4.780	4.801	VV	242	2121	0.03%	0.009%
12	4.820	4.801	4.836	VV	1289	13576	0.21%	0.061%
13	4.853	4.836	4.872	VV	2513	25613	0.39%	0.114%
14	4.879	4.872	4.906	VV	246	3078	0.05%	0.014%
15	4.929	4.906	4.944	VV	1248	15836	0.24%	0.071%
16	4.955	4.944	4.969	VV	621	8013	0.12%	0.036%
17	4.981	4.969	5.009	VV	488	7621	0.12%	0.034%
18	5.030	5.009	5.043	VV	368	5741	0.09%	0.026%
19	5.062	5.043	5.102	VV	610	11071	0.17%	0.049%
20	5.113	5.102	5.125	VV	194	2066	0.03%	0.009%
21	5.131	5.125	5.164	VV	131	2026	0.03%	0.009%
22	5.182	5.164	5.220	VV	375	7225	0.11%	0.032%
23	5.243	5.220	5.250	VV	958	9127	0.14%	0.041%
24	5.269	5.250	5.300	VV	5600	66192	1.01%	0.295%
25	5.327	5.300	5.342	VV	1561	18261	0.28%	0.082%
26	5.353	5.342	5.374	VV	1435	15393	0.24%	0.069%
27	5.383	5.374	5.397	VV	313	3071	0.05%	0.014%
28	5.409	5.397	5.428	VV	228	2586	0.04%	0.012%
29	5.476	5.460	5.487	VV	319	3484	0.05%	0.016%
30	5.507	5.487	5.536	VV	2495	27259	0.42%	0.122%
31	5.551	5.536	5.566	VV	225	3014	0.05%	0.013%
32	5.580	5.566	5.614	VV	293	4768	0.07%	0.021%
33	5.620	5.614	5.638	VV	157	1756	0.03%	0.008%
34	5.643	5.638	5.658	VV	205	1777	0.03%	0.008%
35	5.671	5.658	5.682	VV	282	2447	0.04%	0.011%
36	5.700	5.682	5.731	VV	1795	22561	0.35%	0.101%

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37	5.748	5.731	5.771	VV	1605	18543	0.28%	0.083%
38	5.780	5.771	5.793	VV	228	2533	0.04%	0.011%
39	5.805	5.793	5.839	VV	401	5366	0.08%	0.024%
40	5.842	5.839	5.861	VV	143	1184	0.02%	0.005%
41	5.893	5.861	5.922	VV	1042	15741	0.24%	0.070%
42	5.928	5.922	5.946	VV	284	2416	0.04%	0.011%
43	5.965	5.946	5.976	VV	280	3191	0.05%	0.014%
44	5.994	5.976	6.032	VV	1666	22756	0.35%	0.102%
45	6.050	6.032	6.107	VV	1196	17102	0.26%	0.076%
46	6.117	6.107	6.129	VV	201	1635	0.03%	0.007%
47	6.137	6.129	6.160	VV	187	1941	0.03%	0.009%
48	6.184	6.160	6.201	PV	619	7263	0.11%	0.032%
49	6.238	6.201	6.254	VV	443	8128	0.12%	0.036%
50	6.272	6.254	6.292	VV	1409	16411	0.25%	0.073%
51	6.311	6.292	6.324	VV	698	8734	0.13%	0.039%
52	6.331	6.324	6.354	VV	509	5811	0.09%	0.026%
53	6.376	6.354	6.395	VV	1204	15760	0.24%	0.070%
54	6.416	6.395	6.432	VV	850	13591	0.21%	0.061%
55	6.447	6.432	6.484	VV	834	15391	0.24%	0.069%
56	6.502	6.484	6.533	VV	1007	17832	0.27%	0.080%
57	6.543	6.533	6.558	VV	752	8712	0.13%	0.039%
58	6.567	6.558	6.599	VV	676	9584	0.15%	0.043%
59	6.605	6.599	6.622	VV	204	1725	0.03%	0.008%
60	6.649	6.622	6.666	VV	628	9320	0.14%	0.042%
61	6.675	6.666	6.699	VV	324	4136	0.06%	0.018%
62	6.730	6.699	6.759	VV	2520	29491	0.45%	0.132%
63	6.769	6.759	6.778	VV	280	2305	0.04%	0.010%
64	6.817	6.778	6.834	VV	1104	16392	0.25%	0.073%
65	6.852	6.834	6.867	VV	813	10227	0.16%	0.046%
66	6.884	6.867	6.909	VV	1815	20888	0.32%	0.093%
67	6.924	6.909	6.944	VV	656	9566	0.15%	0.043%
68	6.959	6.944	6.976	VV	982	10290	0.16%	0.046%
69	6.987	6.976	6.993	VV	288	2516	0.04%	0.011%
70	7.014	6.993	7.035	VV	964	10957	0.17%	0.049%
71	7.057	7.035	7.082	VV	651	9500	0.15%	0.042%
72	7.091	7.082	7.099	VV	268	2009	0.03%	0.009%
73	7.117	7.099	7.123	VV	670	6496	0.10%	0.029%
74	7.136	7.123	7.164	VV	1178	13355	0.20%	0.060%
75	7.185	7.164	7.208	VV	959	12829	0.20%	0.057%
76	7.240	7.208	7.254	VV	1147	17975	0.28%	0.080%
77	7.265	7.254	7.277	VV	1080	13172	0.20%	0.059%
78	7.302	7.277	7.339	VV	1799	35350	0.54%	0.158%
79	7.366	7.339	7.403	VV	3467	55601	0.85%	0.248%
80	7.415	7.403	7.431	VV	456	5606	0.09%	0.025%
81	7.451	7.431	7.483	VV	1851	32171	0.49%	0.144%
82	7.502	7.483	7.517	VV	4520	50032	0.77%	0.223%
83	7.533	7.517	7.562	VV	3629	46688	0.72%	0.208%
84	7.594	7.562	7.604	VV	609	11364	0.17%	0.051%
85	7.612	7.604	7.627	VV	608	6683	0.10%	0.030%
86	7.672	7.627	7.699	VV	1541	37646	0.58%	0.168%
87	7.737	7.699	7.752	VV	1081	22512	0.35%	0.100%
88	7.765	7.752	7.792	VV	1080	15157	0.23%	0.068%
89	7.806	7.801	7.813	VV	252	1711	0.03%	0.008%

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90	7.820	7.813	7.829	VV	342	2605	0.04%	0.012%
91	7.854	7.829	7.878	VV	1052	17731	0.27%	0.079%
92	7.905	7.878	7.923	VV	867	15854	0.24%	0.071%
93	7.940	7.923	7.959	VV	1249	16094	0.25%	0.072%
94	7.992	7.959	8.072	VV	670116	6524920	100.00%	29.122%
95	8.088	8.072	8.131	VV	1213	31678	0.49%	0.141%
96	8.146	8.131	8.186	VV	681	18701	0.29%	0.083%
97	8.201	8.186	8.219	VV	817	11311	0.17%	0.050%
98	8.256	8.219	8.294	VV	1617	43447	0.67%	0.194%
99	8.311	8.294	8.324	VV	1086	13960	0.21%	0.062%
100	8.358	8.324	8.364	VV	3411	40930	0.63%	0.183%
101	8.373	8.364	8.420	VV	3830	51652	0.79%	0.231%
102	8.478	8.420	8.494	VV	5738	83028	1.27%	0.371%
103	8.506	8.494	8.529	VV	3907	46013	0.71%	0.205%
104	8.555	8.529	8.577	VV	2062	35155	0.54%	0.157%
105	8.591	8.577	8.613	VV	1049	18112	0.28%	0.081%
106	8.645	8.613	8.686	VV	2457	65731	1.01%	0.293%
107	8.714	8.686	8.734	VV	1170	23783	0.36%	0.106%
108	8.754	8.734	8.770	VV	1765	23191	0.36%	0.104%
109	8.792	8.770	8.821	VV	1103	23722	0.36%	0.106%
110	8.865	8.821	8.907	VV	391188	4027081	61.72%	17.974%
111	8.915	8.907	8.943	VV	1955	30640	0.47%	0.137%
112	8.963	8.943	8.997	VV	1235	32224	0.49%	0.144%
113	9.020	8.997	9.037	VV	1445	26510	0.41%	0.118%
114	9.041	9.037	9.050	VV	820	6229	0.10%	0.028%
115	9.069	9.050	9.083	VV	1462	25408	0.39%	0.113%
116	9.097	9.083	9.142	VV	2001	46619	0.71%	0.208%
117	9.160	9.142	9.172	VV	956	13143	0.20%	0.059%
118	9.178	9.172	9.182	VV	824	4523	0.07%	0.020%
119	9.203	9.182	9.224	VV	3012	44817	0.69%	0.200%
120	9.238	9.224	9.257	VV	1617	22641	0.35%	0.101%
121	9.284	9.257	9.347	VV	50988	604785	9.27%	2.699%
122	9.374	9.347	9.387	VV	3458	56248	0.86%	0.251%
123	9.413	9.387	9.456	VV	3961	91617	1.40%	0.409%
124	9.471	9.456	9.502	VV	859	15218	0.23%	0.068%
125	9.530	9.502	9.547	VV	2668	36693	0.56%	0.164%
126	9.563	9.547	9.592	VV	2267	30417	0.47%	0.136%
127	9.603	9.592	9.609	VV	551	4798	0.07%	0.021%
128	9.611	9.609	9.629	VV	555	4705	0.07%	0.021%
129	9.667	9.629	9.702	VV	2748	52102	0.80%	0.233%
130	9.714	9.702	9.731	VV	599	8619	0.13%	0.038%
131	9.750	9.731	9.768	VV	2114	27991	0.43%	0.125%
132	9.775	9.768	9.799	VV	881	10713	0.16%	0.048%
133	9.830	9.799	9.861	VV	2365	39176	0.60%	0.175%
134	9.872	9.861	9.877	VV	521	4655	0.07%	0.021%
135	9.902	9.877	9.916	VV	968	16506	0.25%	0.074%
136	9.932	9.916	9.941	VV	1172	14310	0.22%	0.064%
137	9.956	9.941	9.982	VV	1691	25872	0.40%	0.115%
138	9.997	9.982	10.007	VV	1184	14278	0.22%	0.064%
139	10.029	10.007	10.056	VV	30054	317746	4.87%	1.418%
140	10.079	10.056	10.116	VV	1466	37412	0.57%	0.167%
141	10.123	10.116	10.141	VV	811	9794	0.15%	0.044%

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142	10.162	10.141	10.213	VV	2068	42183	0.65%	0.188%
143	10.236	10.213	10.251	VV	614	10749	0.16%	0.048%
144	10.269	10.251	10.303	VV	817	15138	0.23%	0.068%
145	10.336	10.303	10.374	VV	1127	21996	0.34%	0.098%
146	10.394	10.374	10.421	VV	307	6050	0.09%	0.027%
147	10.443	10.421	10.457	VV	423	6132	0.09%	0.027%
148	10.495	10.457	10.524	VV	1481	26997	0.41%	0.120%
149	10.551	10.524	10.572	VV	1098	20305	0.31%	0.091%
150	10.602	10.572	10.614	VV	1500	22808	0.35%	0.102%
151	10.630	10.614	10.657	VV	1819	28399	0.44%	0.127%
152	10.677	10.657	10.709	VV	2216	35259	0.54%	0.157%
153	10.724	10.709	10.731	VV	583	5945	0.09%	0.027%
154	10.767	10.731	10.794	VV	1409	40262	0.62%	0.180%
155	10.812	10.794	10.821	VV	1257	16687	0.26%	0.074%
156	10.829	10.821	10.839	VV	1204	11790	0.18%	0.053%
157	10.849	10.839	10.869	VV	1269	18826	0.29%	0.084%
158	10.884	10.869	10.902	VV	1040	18747	0.29%	0.084%
159	10.920	10.902	10.937	VV	1237	18938	0.29%	0.085%
160	10.974	10.937	10.999	VV	1576	39181	0.60%	0.175%
161	11.030	10.999	11.069	VV	1538	35620	0.55%	0.159%
162	11.118	11.069	11.131	VV	710	17616	0.27%	0.079%
163	11.154	11.131	11.206	VV	2685	40402	0.62%	0.180%
164	11.229	11.206	11.266	VV	2092	30468	0.47%	0.136%
165	11.298	11.266	11.313	VV	366	8555	0.13%	0.038%
166	11.331	11.313	11.391	VV	713	15297	0.23%	0.068%
167	11.410	11.391	11.423	VV	223	2886	0.04%	0.013%
168	11.464	11.423	11.484	VV	840	14374	0.22%	0.064%
169	11.537	11.484	11.563	PV	1224	29351	0.45%	0.131%
170	11.573	11.563	11.588	VV	592	7524	0.12%	0.034%
171	11.605	11.588	11.624	VV	1403	18346	0.28%	0.082%
172	11.645	11.624	11.661	VV	605	11196	0.17%	0.050%
173	11.679	11.661	11.722	VV	1228	23636	0.36%	0.105%
174	11.754	11.722	11.779	VV	519	8593	0.13%	0.038%
175	11.808	11.779	11.832	PV	753	12590	0.19%	0.056%
176	11.845	11.832	11.876	VV	293	3818	0.06%	0.017%
177	11.926	11.876	11.973	VV	383339	4185647	64.15%	18.682%
178	11.989	11.973	12.011	VV	1848	25297	0.39%	0.113%
179	12.016	12.011	12.033	VV	435	4048	0.06%	0.018%
180	12.081	12.033	12.091	VV	772	19673	0.30%	0.088%
181	12.105	12.091	12.121	VV	1058	13499	0.21%	0.060%
182	12.138	12.121	12.170	VV	960	15698	0.24%	0.070%
183	12.176	12.170	12.192	VV	210	1929	0.03%	0.009%
184	12.207	12.192	12.226	VV	401	6174	0.09%	0.028%
185	12.258	12.226	12.285	VV	1282	27685	0.42%	0.124%
186	12.325	12.285	12.350	VV	7493	96676	1.48%	0.431%
187	12.363	12.350	12.385	VV	818	10792	0.17%	0.048%
188	12.409	12.385	12.422	VV	498	7789	0.12%	0.035%
189	12.433	12.422	12.446	VV	515	5850	0.09%	0.026%
190	12.456	12.446	12.461	VV	486	3807	0.06%	0.017%
191	12.492	12.461	12.499	VV	1458	20459	0.31%	0.091%
192	12.516	12.499	12.553	VV	6865	91208	1.40%	0.407%
193	12.556	12.553	12.560	VV	827	3364	0.05%	0.015%
194	12.567	12.560	12.592	VV	778	12266	0.19%	0.055%

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195	12.605	12.592	12.621	VV	661	8469	0.13%	0.038%
196	12.634	12.621	12.674	VV	703	16780	0.26%	0.075%
197	12.701	12.674	12.731	VV	715	17817	0.27%	0.080%
198	12.773	12.731	12.803	VV	3780	69120	1.06%	0.308%
199	12.856	12.803	12.877	VV	2612	43263	0.66%	0.193%
200	12.917	12.877	12.952	VV	1943	39597	0.61%	0.177%
201	12.975	12.952	13.016	VV	2270	40385	0.62%	0.180%
202	13.023	13.016	13.031	VV	243	1161	0.02%	0.005%
203	13.035	13.031	13.054	VV	157	1208	0.02%	0.005%
204	13.072	13.054	13.077	VV	157	1089	0.02%	0.005%
205	13.100	13.086	13.120	VV	368	4098	0.06%	0.018%
206	13.138	13.120	13.154	VV	432	4749	0.07%	0.021%
207	13.160	13.154	13.167	VV	274	1997	0.03%	0.009%
208	13.190	13.167	13.206	VV	585	8484	0.13%	0.038%
209	13.222	13.206	13.247	VV	320	5596	0.09%	0.025%
210	13.270	13.247	13.299	PV	1528	20956	0.32%	0.094%
211	13.319	13.299	13.327	VV	638	8646	0.13%	0.039%
212	13.360	13.327	13.392	VV	64938	794848	12.18%	3.548%
213	13.407	13.392	13.434	VV	784	14710	0.23%	0.066%
214	13.445	13.434	13.471	VV	538	9579	0.15%	0.043%
215	13.476	13.471	13.496	VV	541	5131	0.08%	0.023%
216	13.580	13.496	13.637	VV	4253	97193	1.49%	0.434%
217	13.643	13.637	13.651	VV	358	2341	0.04%	0.010%
218	13.668	13.651	13.681	VV	549	7999	0.12%	0.036%
219	13.701	13.681	13.734	VV	874	18679	0.29%	0.083%
220	13.753	13.734	13.809	VV	1541	37226	0.57%	0.166%
221	13.819	13.809	13.839	VV	735	9585	0.15%	0.043%
222	13.862	13.839	13.886	VV	830	14059	0.22%	0.063%
223	13.906	13.886	13.917	VV	464	6641	0.10%	0.030%
224	13.931	13.917	13.949	VV	643	7870	0.12%	0.035%
225	13.973	13.949	13.998	VV	987	18295	0.28%	0.082%
226	14.005	13.998	14.023	VV	524	6044	0.09%	0.027%
227	14.062	14.023	14.089	VV	1924	33127	0.51%	0.148%
228	14.115	14.089	14.127	VV	1445	19960	0.31%	0.089%
229	14.133	14.127	14.163	VV	891	11854	0.18%	0.053%
230	14.177	14.163	14.196	VV	446	5958	0.09%	0.027%
231	14.210	14.196	14.288	VV	282	9314	0.14%	0.042%
232	14.334	14.288	14.384	PV	352	12565	0.19%	0.056%
233	14.392	14.384	14.430	VV	297	5612	0.09%	0.025%
234	14.448	14.430	14.461	VV	345	4758	0.07%	0.021%
235	14.478	14.461	14.491	VV	539	7488	0.11%	0.033%
236	14.507	14.491	14.519	VV	782	9499	0.15%	0.042%
237	14.547	14.519	14.608	VV	1342	36712	0.56%	0.164%
238	14.633	14.608	14.649	VV	431	8983	0.14%	0.040%
239	14.676	14.649	14.697	VV	806	14458	0.22%	0.065%
240	14.731	14.697	14.757	VV	936	20591	0.32%	0.092%
241	14.777	14.757	14.788	VV	697	9739	0.15%	0.043%
242	14.801	14.788	14.820	VV	635	11017	0.17%	0.049%
243	14.838	14.820	14.859	VV	706	11497	0.18%	0.051%
244	14.913	14.859	14.944	VV	1326	28608	0.44%	0.128%
245	14.992	14.944	15.041	VV	1678	41033	0.63%	0.183%
246	15.055	15.041	15.107	VV	475	12706	0.19%	0.057%

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247	15.186	15.107	15.200	VV	1424	42683	0.65%	0.191%
248	15.214	15.200	15.235	VV	1432	21721	0.33%	0.097%
249	15.261	15.235	15.292	VV	3842	56247	0.86%	0.251%
250	15.317	15.292	15.335	VV	709	12354	0.19%	0.055%
251	15.350	15.335	15.367	VV	672	10754	0.16%	0.048%
252	15.382	15.367	15.436	VV	596	13001	0.20%	0.058%
253	15.459	15.436	15.491	VV	346	6965	0.11%	0.031%
254	15.513	15.491	15.539	VV	237	4267	0.07%	0.019%
255	15.543	15.539	15.558	VV	176	1263	0.02%	0.006%
256	15.595	15.558	15.716	VV	11716	222725	3.41%	0.994%
257	15.754	15.716	15.776	VV	1538	30879	0.47%	0.138%
258	15.787	15.776	15.809	VV	347	5841	0.09%	0.026%
259	15.822	15.809	15.844	VV	446	6195	0.09%	0.028%
260	15.862	15.844	15.894	VV	442	8341	0.13%	0.037%
261	15.905	15.894	15.920	VV	178	2684	0.04%	0.012%
262	15.949	15.920	15.969	VV	536	10411	0.16%	0.046%
263	15.994	15.969	16.029	VV	295	8335	0.13%	0.037%
264	16.064	16.029	16.091	VV	410	10746	0.16%	0.048%
265	16.110	16.091	16.176	VV	512	16931	0.26%	0.076%
266	16.197	16.176	16.217	VV	848	13286	0.20%	0.059%
267	16.238	16.217	16.276	VV	1236	21624	0.33%	0.097%
268	16.296	16.276	16.349	VV	703	15365	0.24%	0.069%
269	16.369	16.349	16.391	PV	158	2714	0.04%	0.012%
270	16.428	16.391	16.449	VV	237	5368	0.08%	0.024%
271	16.455	16.449	16.478	VV	208	1804	0.03%	0.008%
272	16.522	16.478	16.559	PV	169	4052	0.06%	0.018%
273	16.617	16.559	16.659	VV	968	23172	0.36%	0.103%
274	16.720	16.659	16.762	VV	1013	29823	0.46%	0.133%
275	16.802	16.762	16.827	VV	2056	31094	0.48%	0.139%
276	16.859	16.827	16.889	VV	394	9866	0.15%	0.044%
277	16.913	16.889	16.926	VV	243	4514	0.07%	0.020%
278	16.948	16.926	16.972	VV	349	7305	0.11%	0.033%
279	16.998	16.972	17.013	VV	431	7284	0.11%	0.033%
280	17.020	17.013	17.044	VV	442	5189	0.08%	0.023%
281	17.082	17.044	17.117	VV	776	15918	0.24%	0.071%
282	17.154	17.117	17.171	VV	992	17162	0.26%	0.077%
283	17.187	17.171	17.212	VV	2086	29922	0.46%	0.134%
284	17.237	17.212	17.295	VV	2737	48173	0.74%	0.215%
285	17.316	17.295	17.349	VV	243	4934	0.08%	0.022%
286	17.396	17.349	17.410	VV	287	6023	0.09%	0.027%
287	17.432	17.410	17.480	VV	831	15945	0.24%	0.071%
288	17.524	17.480	17.542	VV	857	18315	0.28%	0.082%
289	17.557	17.542	17.592	VV	669	17128	0.26%	0.076%
290	17.638	17.592	17.697	VV	2830	58820	0.90%	0.263%
291	17.736	17.697	17.775	VV	541	15868	0.24%	0.071%
292	17.811	17.775	17.835	PV	364	8155	0.12%	0.036%
293	17.864	17.835	17.897	VV	1570	24078	0.37%	0.107%
294	17.933	17.897	17.957	VV	1615	26077	0.40%	0.116%
295	17.977	17.957	18.004	VV	364	7222	0.11%	0.032%
296	18.076	18.004	18.132	VV	7047	125764	1.93%	0.561%
297	18.165	18.132	18.204	VV	5273	78243	1.20%	0.349%
298	18.223	18.204	18.241	VV	460	7389	0.11%	0.033%
299	18.260	18.241	18.288	VV	682	11692	0.18%	0.052%

					rteres			
300	18.301	18.288	18.329	VV	301	3897	0.06%	0.017%
301	18.352	18.329	18.381	PV	521	9880	0.15%	0.044%
302	18.399	18.381	18.408	VV	637	7501	0.11%	0.033%
303	18.437	18.408	18.471	VV	4518	96094	1.47%	0.429%
304	18.499	18.471	18.557	VV	13416	218759	3.35%	0.976%
305	18.597	18.557	18.652	VV	946	23874	0.37%	0.107%
306	18.708	18.652	18.727	PV	489	7316	0.11%	0.033%
307	18.764	18.727	18.782	VV	629	9139	0.14%	0.041%
			Sum of corrected areas:			22405263		

Aromatic EPH 111524.M Mon Nov 18 01:01:58 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-2			SDG No.:	P4839
Lab Sample ID:	P4839-15			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/19/24 10:27	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	69.7		10	4.51	11.9	mg/kg	FE051343.D
Aliphatic C12-C16	Aliphatic C12-C16	120		10	2.85	7.92	mg/kg	FE051343.D
Aliphatic C16-C21	Aliphatic C16-C21	18.1		1	0.36	1.19	mg/kg	FE051269.D
Aliphatic C21-C28	Aliphatic C21-C28	3.35		1	0.95	1.58	mg/kg	FE051269.D
Aliphatic C28-C40	Aliphatic C28-C40	10.2		1	2.14	2.38	mg/kg	FE051269.D
Aromatic C10-C12	Aromatic C10-C12	9.67		1	0.36	0.79	mg/kg	FF015061.D
Aromatic C12-C16	Aromatic C12-C16	26.1		2	0.81	2.38	mg/kg	FF015072.D
Aromatic C16-C21	Aromatic C16-C21	18.6		1	1.14	1.98	mg/kg	FF015061.D
Aromatic C21-C36	Aromatic C21-C36	9.38		1	2.38	3.17	mg/kg	FF015061.D
Total AliphaticEPH	Total AliphaticEPH	221			10.8	25.0	mg/kg	
Total AromaticEPH	Total AromaticEPH	63.8			4.68	8.32	mg/kg	
Total EPH	Total EPH	285			15.5	33.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-2			SDG No.:	P4839
Lab Sample ID:	P4839-15			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/19/24 10:27	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	69.7		10	4.51	11.9	mg/kg	FE051343.D
Aliphatic C12-C16	Aliphatic C12-C16	120		10	2.85	7.92	mg/kg	FE051343.D
Aliphatic C16-C21	Aliphatic C16-C21	18.1		1	0.36	1.19	mg/kg	FE051269.D
Aliphatic C21-C28	Aliphatic C21-C28	3.35		1	0.95	1.58	mg/kg	FE051269.D
Aliphatic C28-C40	Aliphatic C28-C40	10.2		1	2.14	2.38	mg/kg	FE051269.D
Aromatic C10-C12	Aromatic C10-C12	9.67		1	0.36	0.79	mg/kg	FF015061.D
Aromatic C12-C16	Aromatic C12-C16	26.1		2	0.81	2.38	mg/kg	FF015072.D
Aromatic C16-C21	Aromatic C16-C21	18.6		1	1.14	1.98	mg/kg	FF015061.D
Aromatic C21-C36	Aromatic C21-C36	9.38		1	2.38	3.17	mg/kg	FF015061.D
Total AliphaticEPH	Total AliphaticEPH	221			10.8	25.0	mg/kg	
Total AromaticEPH	Total AromaticEPH	63.8			4.68	8.32	mg/kg	
Total EPH	Total EPH	285			15.5	33.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-2		SDG No.:	P4839	
Lab Sample ID:	P4839-15		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84	
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
FE051269.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	59.3	E	0.45	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	99.3	E	0.28	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	18.1		0.36	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	3.35		0.95	1.58	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.2		2.14	2.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.4		40 - 140	45%	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:	P4839-15	Acq On:	15 Nov 2024 18:19
Client Sample ID:	EX-10-TPH-2	Operator:	YP\AJ
Data file:	FE051269.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	104785521	748.924	300	ug/ml
Aliphatic C12-C16	6.754	10.185	176272432	1250	200	ug/ml
Aliphatic C16-C21	10.186	13.544	31519632	228.788	300	ug/ml
Aliphatic C21-C28	13.545	17.200	5659383	42.249	400	ug/ml
Aliphatic C28-C40	17.201	22.043	16588339	128.843	600	ug/ml
Aliphatic EPH	3.134	22.043	334825307	2400		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	2549110	22.45		ug/ml
Aliphatic C9-C28	3.134	17.200	318236968	2270	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051269.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 18:19
Operator : YP\AJ
Sample : P4839-15
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2

Integration File: autoint1.e
Quant Time: Nov 16 08:20:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	2549110	22.453 ug/ml
Spiked Amount 50.000		Recovery = 44.91%	
Target Compounds			

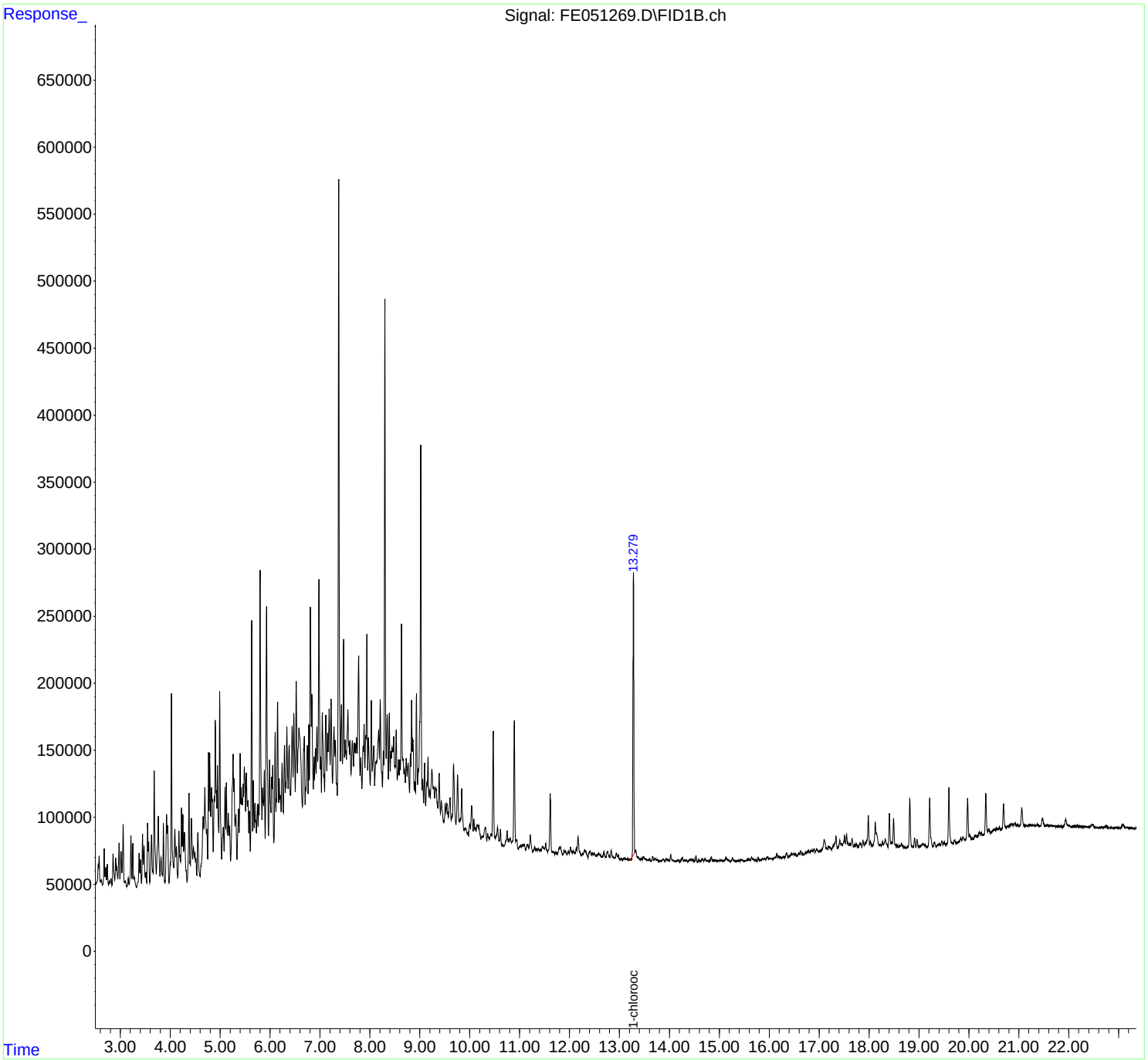
(f)=RT Delta > 1/2 Window (m)=manual int.

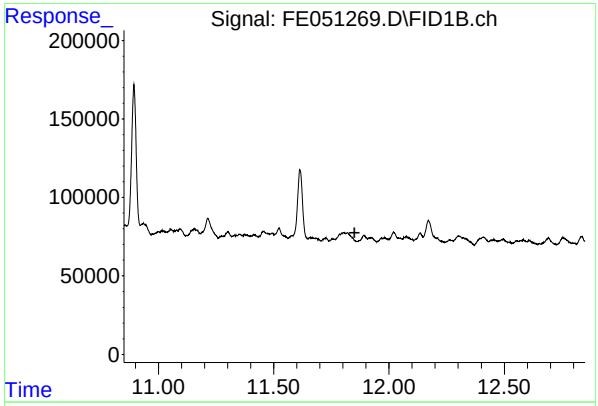
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051269.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 18:19
Operator : YP\AJ
Sample : P4839-15
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2

Integration File: autoint1.e
Quant Time: Nov 16 08:20:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

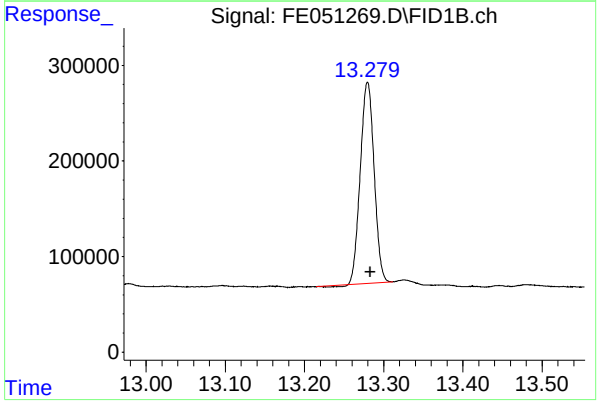




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 2549110
Conc: 22.45 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051269.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 18:19
Sample : P4839-15
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.250	3.215	3.269	BV	15961	-116063	-1.88%	-0.060%
2	3.278	3.269	3.323	PV	2701	26205	0.42%	0.013%
3	3.376	3.323	3.391	PV	24979	331421	5.37%	0.170%
4	3.404	3.391	3.424	VV	20139	234867	3.81%	0.121%
5	3.445	3.424	3.461	VV	38758	451915	7.32%	0.232%
6	3.475	3.461	3.501	VV	29690	422374	6.85%	0.217%
7	3.513	3.501	3.527	VV	10124	108470	1.76%	0.056%
8	3.547	3.527	3.559	VV	45928	516011	8.36%	0.265%
9	3.567	3.559	3.589	VV	32464	337739	5.47%	0.174%
10	3.625	3.589	3.661	VV	37379	711364	11.53%	0.366%
11	3.679	3.661	3.720	VV	85078	1266434	20.52%	0.651%
12	3.761	3.720	3.794	VV	50788	1095408	17.75%	0.563%
13	3.816	3.794	3.848	VV	19592	367690	5.96%	0.189%
14	3.863	3.848	3.891	VV	44342	443350	7.19%	0.228%
15	3.927	3.891	3.939	VV	51069	702739	11.39%	0.361%
16	3.947	3.939	3.976	VV	43093	505037	8.18%	0.260%
17	4.025	4.001	4.070	BV	128678	1358336	22.01%	0.698%
18	4.093	4.070	4.111	VV	31919	437491	7.09%	0.225%
19	4.123	4.111	4.151	VV	21264	254202	4.12%	0.131%
20	4.174	4.151	4.207	PV	34860	586574	9.51%	0.301%
21	4.226	4.207	4.240	VV	53322	642077	10.41%	0.330%
22	4.254	4.240	4.270	VV	48812	639747	10.37%	0.329%
23	4.286	4.270	4.337	VV	35709	723581	11.73%	0.372%
24	4.376	4.337	4.405	PV	65334	946703	15.34%	0.486%
25	4.425	4.405	4.449	VV	46016	783401	12.70%	0.403%
26	4.466	4.449	4.484	VV	23649	405829	6.58%	0.209%
27	4.494	4.484	4.531	VV	19811	374307	6.07%	0.192%
28	4.553	4.531	4.596	VV	33316	503662	8.16%	0.259%
29	4.659	4.596	4.674	PV	43532	936970	15.19%	0.481%
30	4.694	4.674	4.750	VV	64823	1723148	27.93%	0.885%
31	4.768	4.750	4.779	VV	89621	940136	15.24%	0.483%
32	4.791	4.779	4.813	VV	88437	1259859	20.42%	0.647%
33	4.828	4.813	4.862	VV	62013	1365685	22.13%	0.702%
34	4.904	4.862	4.933	VV	110845	2540287	41.17%	1.305%
35	4.947	4.933	4.971	VV	76148	1127631	18.27%	0.579%
36	4.992	4.971	5.030	VV	130967	1906764	30.90%	0.980%

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37	5.063	5.030	5.079	VV	28598	571492	9.26%	0.294%
38	5.098	5.079	5.112	VV	57921	695054	11.26%	0.357%
39	5.126	5.112	5.151	VV	60714	857020	13.89%	0.440%
40	5.164	5.151	5.179	VV	37462	478658	7.76%	0.246%
41	5.189	5.179	5.210	VV	27446	323953	5.25%	0.166%
42	5.259	5.210	5.272	VV	79929	1591991	25.80%	0.818%
43	5.280	5.272	5.298	VV	61641	705906	11.44%	0.363%
44	5.315	5.298	5.337	VV	34047	526600	8.53%	0.271%
45	5.368	5.337	5.381	PV	37330	565187	9.16%	0.290%
46	5.401	5.381	5.415	VV	78229	1055390	17.10%	0.542%
47	5.424	5.415	5.450	VV	51964	911329	14.77%	0.468%
48	5.485	5.450	5.510	VV	66283	1881815	30.50%	0.967%
49	5.525	5.510	5.551	VV	61110	1127027	18.27%	0.579%
50	5.558	5.551	5.574	VV	39923	431713	7.00%	0.222%
51	5.586	5.574	5.604	VV	31606	339435	5.50%	0.174%
52	5.632	5.604	5.651	VV	172702	2030384	32.91%	1.043%
53	5.665	5.651	5.683	VV	53107	621670	10.08%	0.319%
54	5.697	5.683	5.727	VV	35402	623887	10.11%	0.321%
55	5.747	5.727	5.761	VV	34261	511747	8.29%	0.263%
56	5.801	5.761	5.838	VV	206221	3346371	54.23%	1.720%
57	5.852	5.838	5.870	VV	44331	671326	10.88%	0.345%
58	5.885	5.870	5.902	VV	56916	678166	10.99%	0.348%
59	5.930	5.902	5.969	VV	178145	2939577	47.64%	1.510%
60	5.991	5.969	6.018	VV	63194	1028188	16.66%	0.528%
61	6.053	6.018	6.077	VV	57592	1220671	19.78%	0.627%
62	6.102	6.077	6.118	PV	80685	894349	14.49%	0.460%
63	6.151	6.118	6.172	VV	100981	1657575	26.86%	0.852%
64	6.184	6.172	6.222	VV	42412	880192	14.26%	0.452%
65	6.242	6.222	6.264	VV	51372	807101	13.08%	0.415%
66	6.290	6.264	6.306	VV	61693	946053	15.33%	0.486%
67	6.337	6.306	6.363	VV	73859	1471805	23.85%	0.756%
68	6.383	6.363	6.409	VV	57962	1075585	17.43%	0.553%
69	6.443	6.409	6.461	VV	69267	1361284	22.06%	0.699%
70	6.477	6.461	6.505	VV	77311	1289650	20.90%	0.663%
71	6.525	6.505	6.548	VV	98759	1460241	23.67%	0.750%
72	6.579	6.548	6.651	VV	61897	2326123	37.70%	1.195%
73	6.685	6.651	6.701	PBA	49963	916446	14.85%	0.471%
74	6.747	6.701	6.763	BV	43241	806806	13.08%	0.415%
75	6.778	6.763	6.789	VV	58668	540685	8.76%	0.278%
76	6.808	6.789	6.829	VV	146526	2121309	34.38%	1.090%
77	6.839	6.829	6.867	VV	81915	1116888	18.10%	0.574%
78	6.881	6.867	6.892	VV	35680	377840	6.12%	0.194%
79	6.911	6.892	6.924	VV	42047	609405	9.88%	0.313%
80	6.939	6.924	6.956	VV	58984	854394	13.85%	0.439%
81	6.979	6.956	7.030	VV	168251	2864762	46.43%	1.472%
82	7.048	7.030	7.093	VV	69178	1409967	22.85%	0.724%
83	7.117	7.093	7.138	VV	68993	1258060	20.39%	0.646%
84	7.153	7.138	7.163	VV	55730	656552	10.64%	0.337%
85	7.185	7.163	7.204	VV	74067	1331010	21.57%	0.684%
86	7.224	7.204	7.252	VV	81787	1450119	23.50%	0.745%
87	7.281	7.252	7.296	VV	61381	1125477	18.24%	0.578%
88	7.308	7.296	7.347	VV	51635	978985	15.87%	0.503%
89	7.376	7.347	7.410	VV	465885	6170358	100.00%	3.171%

90	7.431	7.410	7.451	VV	78712	1389454	22.52%	0.714%
91	7.474	7.451	7.493	VV	128514	1820974	29.51%	0.936%
92	7.504	7.493	7.530	VV	53581	1044465	16.93%	0.537%
93	7.560	7.530	7.591	VV	76660	2049918	33.22%	1.053%
94	7.602	7.591	7.623	VV	53978	845039	13.70%	0.434%
95	7.649	7.623	7.675	VV	54043	1330921	21.57%	0.684%
96	7.688	7.675	7.697	VV	52529	637389	10.33%	0.328%
97	7.707	7.697	7.717	VV	52339	593714	9.62%	0.305%
98	7.732	7.717	7.746	VV	57047	892679	14.47%	0.459%
99	7.774	7.746	7.804	VV	118312	2471448	40.05%	1.270%
100	7.818	7.804	7.841	VV	42549	734729	11.91%	0.378%
101	7.885	7.841	7.901	VV	68002	1642994	26.63%	0.844%
102	7.940	7.901	7.958	VV	136439	2482296	40.23%	1.276%
103	7.971	7.958	8.007	VV	58485	1265030	20.50%	0.650%
104	8.030	8.007	8.050	VV	86607	1364754	22.12%	0.701%
105	8.078	8.050	8.096	VV	53563	1168169	18.93%	0.600%
106	8.176	8.096	8.192	VV	66099	2690130	43.60%	1.382%
107	8.209	8.192	8.252	VV	89568	1884086	30.53%	0.968%
108	8.301	8.252	8.326	VV	387650	5381766	87.22%	2.765%
109	8.348	8.326	8.371	VV	79687	1578501	25.58%	0.811%
110	8.389	8.371	8.408	VV	80638	1215688	19.70%	0.625%
111	8.422	8.408	8.431	VV	52583	661733	10.72%	0.340%
112	8.446	8.431	8.458	VV	55718	841990	13.65%	0.433%
113	8.478	8.458	8.507	VV	64103	1512108	24.51%	0.777%
114	8.528	8.507	8.549	VV	69188	1270905	20.60%	0.653%
115	8.574	8.549	8.588	VV	47832	918126	14.88%	0.472%
116	8.601	8.588	8.611	VV	47607	607846	9.85%	0.312%
117	8.635	8.611	8.710	VV	149166	3611564	58.53%	1.856%
118	8.729	8.710	8.747	VV	49796	915019	14.83%	0.470%
119	8.766	8.747	8.795	VV	46292	1100261	17.83%	0.565%
120	8.812	8.795	8.820	VV	53787	637992	10.34%	0.328%
121	8.837	8.820	8.851	VV	93336	1281885	20.77%	0.659%
122	8.863	8.851	8.891	VV	64927	1205365	19.53%	0.619%
123	8.902	8.891	8.913	VV	34038	403420	6.54%	0.207%
124	8.933	8.913	8.956	VV	98430	1518218	24.61%	0.780%
125	9.021	8.956	9.047	VV	285595	5123175	83.03%	2.632%
126	9.058	9.047	9.077	VV	36985	554643	8.99%	0.285%
127	9.096	9.077	9.118	VV	49175	788869	12.78%	0.405%
128	9.165	9.118	9.184	VV	53981	1369875	22.20%	0.704%
129	9.196	9.184	9.211	VV	29677	435474	7.06%	0.224%
130	9.242	9.211	9.299	VV	45892	1836290	29.76%	0.944%
131	9.316	9.299	9.364	VV	32485	1028996	16.68%	0.529%
132	9.389	9.364	9.415	VV	43898	830610	13.46%	0.427%
133	9.432	9.415	9.476	VV	24017	607685	9.85%	0.312%
134	9.510	9.476	9.525	VV	22330	429530	6.96%	0.221%
135	9.542	9.525	9.575	VV	22721	532584	8.63%	0.274%
136	9.607	9.575	9.630	VV	27880	644519	10.45%	0.331%
137	9.677	9.630	9.724	VV	53406	1380990	22.38%	0.710%
138	9.758	9.724	9.789	VV	45963	930441	15.08%	0.478%
139	9.799	9.789	9.813	VV	12995	183111	2.97%	0.094%
140	9.841	9.813	9.885	VV	36142	743909	12.06%	0.382%
141	9.917	9.885	9.953	VV	7527	250251	4.06%	0.129%

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142	9.962	9.953	9.978	VV	4519	52800	0.86%	0.027%
143	10.000	9.978	10.015	VV	11242	183258	2.97%	0.094%
144	10.040	10.015	10.070	VV	25113	524976	8.51%	0.270%
145	10.085	10.070	10.102	VV	15459	223096	3.62%	0.115%
146	10.111	10.102	10.129	VV	9836	137554	2.23%	0.071%
147	10.163	10.129	10.176	VV	11751	288739	4.68%	0.148%
148	10.185	10.176	10.228	VV	11368	205453	3.33%	0.106%
149	10.265	10.228	10.274	VV	4267	98996	1.60%	0.051%
150	10.311	10.274	10.343	VV	11403	307061	4.98%	0.158%
151	10.362	10.343	10.394	VV	7067	138068	2.24%	0.071%
152	10.429	10.394	10.441	VV	7403	162701	2.64%	0.084%
153	10.472	10.441	10.502	VV	84115	1234201	20.00%	0.634%
154	10.512	10.502	10.522	VV	5990	68659	1.11%	0.035%
155	10.559	10.522	10.588	VV	13580	322554	5.23%	0.166%
156	10.618	10.588	10.642	VV	12424	187001	3.03%	0.096%
157	10.656	10.642	10.685	PV	1238	19010	0.31%	0.010%
158	10.751	10.685	10.788	VV	12132	303949	4.93%	0.156%
159	10.801	10.788	10.841	VV	6810	175522	2.84%	0.090%
160	10.894	10.841	10.923	VV	95025	1427987	23.14%	0.734%
161	10.935	10.923	10.976	VV	6928	128083	2.08%	0.066%
162	11.016	10.976	11.034	VV	2980	66675	1.08%	0.034%
163	11.054	11.034	11.070	VV	3957	66324	1.07%	0.034%
164	11.095	11.070	11.124	VV	4533	90333	1.46%	0.046%
165	11.157	11.124	11.182	VV	4976	111175	1.80%	0.057%
166	11.215	11.182	11.261	VV	12099	247275	4.01%	0.127%
167	11.301	11.261	11.319	PV	3971	64181	1.04%	0.033%
168	11.352	11.319	11.368	VV	2763	57699	0.94%	0.030%
169	11.375	11.368	11.401	VV	2553	42127	0.68%	0.022%
170	11.415	11.401	11.434	VV	2691	40151	0.65%	0.021%
171	11.456	11.434	11.503	VV	4972	146172	2.37%	0.075%
172	11.523	11.503	11.565	VV	7271	134974	2.19%	0.069%
173	11.614	11.565	11.651	VV	44676	714381	11.58%	0.367%
174	11.658	11.651	11.704	VV	2039	41208	0.67%	0.021%
175	11.725	11.704	11.741	PV	1728	20832	0.34%	0.011%
176	11.756	11.741	11.768	VV	1378	16021	0.26%	0.008%
177	11.804	11.768	11.861	VV	5612	199358	3.23%	0.102%
178	11.891	11.861	11.908	VV	4324	61370	0.99%	0.032%
179	11.923	11.908	11.947	VV	2899	47320	0.77%	0.024%
180	11.980	11.947	12.001	VV	2922	68754	1.11%	0.035%
181	12.021	12.001	12.058	VV	6636	136307	2.21%	0.070%
182	12.075	12.058	12.108	VV	4301	93951	1.52%	0.048%
183	12.135	12.108	12.148	VV	6526	102361	1.66%	0.053%
184	12.171	12.148	12.245	VV	14783	342214	5.55%	0.176%
185	12.262	12.245	12.277	VV	2852	42588	0.69%	0.022%
186	12.302	12.277	12.371	VV	5387	183799	2.98%	0.094%
187	12.409	12.371	12.432	PV	5018	122301	1.98%	0.063%
188	12.454	12.432	12.471	VV	3536	70804	1.15%	0.036%
189	12.495	12.471	12.536	VV	3954	106513	1.73%	0.055%
190	12.582	12.536	12.598	VV	3855	106604	1.73%	0.055%
191	12.607	12.598	12.658	VV	3481	75874	1.23%	0.039%
192	12.691	12.658	12.728	VV	5178	115116	1.87%	0.059%
193	12.755	12.728	12.812	VV	5576	160954	2.61%	0.083%
194	12.835	12.812	12.908	VV	6603	158946	2.58%	0.082%

195	12.937	12.908	12.959	VV	4938	93915	1.52%	0.048%
196	12.978	12.959	13.015	VV	3363	57071	0.92%	0.029%
197	13.028	13.015	13.060	VV	1019	15658	0.25%	0.008%
198	13.096	13.060	13.141	VV	1694	41888	0.68%	0.022%
199	13.158	13.141	13.181	VV	1277	18831	0.31%	0.010%
200	13.218	13.181	13.230	PV	1028	18991	0.31%	0.010%
201	13.280	13.230	13.312	VV	215628	2738443	44.38%	1.407%
202	13.326	13.312	13.428	VV	8057	234594	3.80%	0.121%
203	13.446	13.428	13.461	VV	2255	32471	0.53%	0.017%
204	13.481	13.461	13.584	VV	3180	119979	1.94%	0.062%
205	13.602	13.584	13.636	VV	2228	30420	0.49%	0.016%
206	13.665	13.636	13.688	PV	3538	55932	0.91%	0.029%
207	13.708	13.688	13.736	VV	2430	48210	0.78%	0.025%
208	13.749	13.736	13.795	VV	1373	28981	0.47%	0.015%
209	13.820	13.795	13.835	PV	815	13200	0.21%	0.007%
210	13.882	13.835	13.903	VV	1758	43041	0.70%	0.022%
211	13.937	13.903	13.960	VV	2431	47075	0.76%	0.024%
212	13.973	13.960	14.002	VV	1691	24906	0.40%	0.013%
213	14.026	14.002	14.059	VV	5115	82892	1.34%	0.043%
214	14.077	14.059	14.099	VV	1004	17604	0.29%	0.009%
215	14.111	14.099	14.120	VV	495	4039	0.07%	0.002%
216	14.133	14.120	14.152	VV	540	7584	0.12%	0.004%
217	14.177	14.152	14.202	VV	1515	25136	0.41%	0.013%
218	14.212	14.202	14.218	VV	411	1983	0.03%	0.001%
219	14.261	14.218	14.285	VV	3381	67192	1.09%	0.035%
220	14.301	14.285	14.318	VV	1136	18123	0.29%	0.009%
221	14.341	14.318	14.371	VV	1303	23275	0.38%	0.012%
222	14.408	14.371	14.419	VV	1653	27779	0.45%	0.014%
223	14.435	14.419	14.454	VV	2481	33747	0.55%	0.017%
224	14.474	14.454	14.515	VV	1864	36411	0.59%	0.019%
225	14.533	14.515	14.570	VV	4493	60626	0.98%	0.031%
226	14.593	14.570	14.632	VV	1217	26557	0.43%	0.014%
227	14.653	14.632	14.691	VV	2119	49240	0.80%	0.025%
228	14.712	14.691	14.778	VV	2456	66082	1.07%	0.034%
229	14.787	14.778	14.802	VV	806	7070	0.11%	0.004%
230	14.838	14.802	14.865	PV	3794	73947	1.20%	0.038%
231	14.875	14.865	14.883	VV	1445	12925	0.21%	0.007%
232	14.886	14.883	14.905	VV	1300	12445	0.20%	0.006%
233	14.920	14.905	14.957	VV	1477	30961	0.50%	0.016%
234	14.997	14.957	15.014	VV	1243	31752	0.51%	0.016%
235	15.042	15.014	15.071	VV	1629	38299	0.62%	0.020%
236	15.090	15.071	15.103	VV	1203	17699	0.29%	0.009%
237	15.131	15.103	15.159	VV	3632	77315	1.25%	0.040%
238	15.171	15.159	15.226	VV	1809	44051	0.71%	0.023%
239	15.262	15.226	15.316	PV	3088	71933	1.17%	0.037%
240	15.375	15.316	15.409	VV	1301	37860	0.61%	0.019%
241	15.433	15.409	15.494	VV	1602	48499	0.79%	0.025%
242	15.508	15.494	15.522	VV	493	5368	0.09%	0.003%
243	15.564	15.522	15.582	VV	1937	36881	0.60%	0.019%
244	15.599	15.582	15.622	VV	1666	27940	0.45%	0.014%
245	15.647	15.622	15.723	VV	3269	89779	1.46%	0.046%
246	15.736	15.723	15.753	VV	779	9315	0.15%	0.005%

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247	15.780	15.753	15.802	PV	2892	36506	0.59%	0.019%
248	15.818	15.802	15.837	VV	602	9850	0.16%	0.005%
249	15.864	15.837	15.882	VV	1833	28536	0.46%	0.015%
250	15.910	15.882	15.928	VV	1243	29849	0.48%	0.015%
251	15.968	15.928	15.993	VV	2344	61324	0.99%	0.032%
252	16.021	15.993	16.081	VV	1493	47939	0.78%	0.025%
253	16.111	16.081	16.126	VV	1629	33080	0.54%	0.017%
254	16.149	16.126	16.181	VV	4142	84115	1.36%	0.043%
255	16.192	16.181	16.213	VV	2085	29554	0.48%	0.015%
256	16.238	16.213	16.249	VV	1285	23635	0.38%	0.012%
257	16.284	16.249	16.307	VV	1721	40114	0.65%	0.021%
258	16.346	16.307	16.373	VV	4312	96458	1.56%	0.050%
259	16.446	16.373	16.460	VV	3498	107305	1.74%	0.055%
260	16.490	16.460	16.515	VV	3075	91887	1.49%	0.047%
261	16.527	16.515	16.556	VV	2902	56438	0.91%	0.029%
262	16.593	16.556	16.611	VV	3138	77037	1.25%	0.040%
263	16.632	16.611	16.656	VV	4954	93720	1.52%	0.048%
264	16.672	16.656	16.694	VV	2765	53075	0.86%	0.027%
265	16.793	16.694	16.816	VV	4361	243653	3.95%	0.125%
266	16.851	16.816	16.866	VV	4886	123730	2.01%	0.064%
267	16.900	16.866	16.919	VV	5667	141981	2.30%	0.073%
268	16.953	16.919	17.014	VV	5299	223171	3.62%	0.115%
269	17.031	17.014	17.045	VV	3802	67450	1.09%	0.035%
270	17.100	17.045	17.138	VV	12150	427040	6.92%	0.219%
271	17.147	17.138	17.164	VV	5304	79502	1.29%	0.041%
272	17.192	17.164	17.247	VV	6883	272538	4.42%	0.140%
273	17.336	17.247	17.365	VV	13966	542835	8.80%	0.279%
274	17.413	17.365	17.436	VV	10617	302457	4.90%	0.155%
275	17.454	17.436	17.468	VV	7939	148026	2.40%	0.076%
276	17.508	17.468	17.528	VV	13471	347974	5.64%	0.179%
277	17.549	17.528	17.598	VV	14315	389727	6.32%	0.200%
278	17.618	17.598	17.635	VV	7332	143759	2.33%	0.074%
279	17.659	17.635	17.697	VV	10880	278201	4.51%	0.143%
280	17.711	17.697	17.724	VV	6084	90678	1.47%	0.047%
281	17.742	17.724	17.790	VV	6700	217083	3.52%	0.112%
282	17.827	17.790	17.855	VV	7334	234932	3.81%	0.121%
283	17.878	17.855	17.908	VV	8894	206845	3.35%	0.106%
284	17.920	17.908	17.935	VV	6819	104273	1.69%	0.054%
285	17.984	17.935	18.009	VV	27215	576578	9.34%	0.296%
286	18.025	18.009	18.073	VV	8021	216768	3.51%	0.111%
287	18.124	18.073	18.208	VV	21730	808719	13.11%	0.416%
288	18.222	18.208	18.243	VV	5024	93528	1.52%	0.048%
289	18.269	18.243	18.288	VV	6295	139186	2.26%	0.072%
290	18.324	18.288	18.376	VV	8808	298585	4.84%	0.153%
291	18.406	18.376	18.433	VV	27317	431388	6.99%	0.222%
292	18.490	18.433	18.544	VV	23302	550265	8.92%	0.283%
293	18.557	18.544	18.584	VV	3174	60276	0.98%	0.031%
294	18.606	18.584	18.621	VV	2809	52063	0.84%	0.027%
295	18.645	18.621	18.748	VV	4064	166620	2.70%	0.086%
296	18.815	18.748	18.853	VV	37330	605392	9.81%	0.311%
297	18.868	18.853	18.882	VV	2019	24605	0.40%	0.013%
298	18.912	18.882	18.936	VV	7739	116497	1.89%	0.060%
299	18.960	18.936	19.005	VV	6434	111500	1.81%	0.057%

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300	19.013	19.005	19.025	VV	1277	14105	0.23%	0.007%
301	19.074	19.025	19.103	VV	2976	92238	1.49%	0.047%
302	19.122	19.103	19.158	VV	2096	38337	0.62%	0.020%
303	19.213	19.158	19.288	VV	36594	620924	10.06%	0.319%
304	19.311	19.288	19.348	VV	3533	55763	0.90%	0.029%
305	19.400	19.348	19.433	PV	1604	46302	0.75%	0.024%
306	19.458	19.433	19.485	VV	3513	59620	0.97%	0.031%
307	19.504	19.485	19.534	VV	2375	40395	0.65%	0.021%
308	19.546	19.534	19.551	VV	513	4492	0.07%	0.002%
309	19.599	19.551	19.684	VV	42582	712490	11.55%	0.366%
310	19.716	19.684	19.741	VV	2698	53572	0.87%	0.028%
311	19.751	19.741	19.760	VV	856	9319	0.15%	0.005%
312	19.841	19.760	19.865	VV	3646	116951	1.90%	0.060%
313	19.882	19.865	19.923	VV	3947	100955	1.64%	0.052%
314	19.973	19.923	20.048	VV	32066	663805	10.76%	0.341%
315	20.057	20.048	20.068	VV	2212	23972	0.39%	0.012%
316	20.131	20.068	20.171	VV	3681	176205	2.86%	0.091%
317	20.207	20.171	20.225	VV	6135	148095	2.40%	0.076%
318	20.246	20.225	20.280	VV	5710	156506	2.54%	0.080%
319	20.338	20.280	20.378	VV	34254	691836	11.21%	0.355%
320	20.399	20.378	20.451	VV	7213	253139	4.10%	0.130%
321	20.522	20.451	20.539	VV	6703	310870	5.04%	0.160%
322	20.563	20.539	20.585	VV	7050	182680	2.96%	0.094%
323	20.611	20.585	20.648	VV	7381	245426	3.98%	0.126%
324	20.693	20.648	20.750	VV	24820	687088	11.14%	0.353%
325	20.822	20.750	20.835	VV	8205	383343	6.21%	0.197%
326	20.868	20.835	20.896	VV	8730	306099	4.96%	0.157%
327	20.924	20.896	20.948	VV	8941	253564	4.11%	0.130%
328	20.974	20.948	20.996	VV	7832	209716	3.40%	0.108%
329	21.059	20.996	21.138	VV	19815	791678	12.83%	0.407%
330	21.150	21.138	21.178	VV	6536	145741	2.36%	0.075%
331	21.206	21.178	21.221	VV	6218	153937	2.49%	0.079%
332	21.232	21.221	21.249	VV	6208	100837	1.63%	0.052%
333	21.269	21.249	21.286	VV	5956	128047	2.08%	0.066%
334	21.311	21.286	21.336	VV	5495	160807	2.61%	0.083%
335	21.374	21.336	21.434	VV	5565	287407	4.66%	0.148%
336	21.474	21.434	21.535	VV	9859	371679	6.02%	0.191%
337	21.548	21.535	21.559	VV	3936	56463	0.92%	0.029%
338	21.577	21.559	21.618	VV	4076	134421	2.18%	0.069%
339	21.664	21.618	21.736	VV	3488	218710	3.54%	0.112%
340	21.745	21.736	21.805	VV	2478	88564	1.44%	0.046%
341	21.830	21.805	21.844	VV	2103	43999	0.71%	0.023%
342	21.854	21.844	21.866	VV	1770	21205	0.34%	0.011%
343	21.872	21.866	21.885	VV	1475	16531	0.27%	0.008%
344	21.941	21.885	22.057	VV	6376	242415	3.93%	0.125%
345	22.075	22.057	22.099	VV	621	12034	0.20%	0.006%
346	22.132	22.099	22.165	VV	454	13108	0.21%	0.007%
347	22.181	22.165	22.191	VV	363	2535	0.04%	0.001%

Sum of corrected areas: 194612870

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-2		SDG No.:	P4839	
Lab Sample ID:	P4839-15		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84	
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
FF015061.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.67		0.36	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	27.0	E	0.40	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.6		1.14	1.98	mg/kg
Aromatic C21-C36	Aromatic C21-C36	9.38		2.38	3.17	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.3		40 - 140	103%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.0		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.8		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:	P4839-15	Acq On:	15 Nov 2024 15:11
Client Sample ID:	EX-10-TPH-2	Operator:	YP\AJ
Data file:	FF015061.D	Misc:	
Instrument:	FID_F	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	16704126	122.119	200	ug/ml
Aromatic C12-C16	6.372	9.062	46082210	341.294	300	ug/ml
Aromatic C16-C21	9.063	13.374	30000352	234.573	500	ug/ml
Aromatic C21-C36	13.375	18.817	14436788	118.458	800	ug/ml
Aromatic EPH	4.507	18.817	107223476	816.443		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6268215	51.33		ug/ml
2-Flurobiphenyl (SURR)	8.866	8.866	3509691	42.99		ug/ml
ortho-Terphenyl (SURR)	11.926	11.926	3465678	25.84		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015061.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:11
Operator : YP\AJ
Sample : P4839-15
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2

Integration File: autoint1.e
Quant Time: Nov 15 15:45:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.992	6268215	51.330 ug/ml
Spiked Amount 50.000		Recovery = 102.66%	
6) S 2-Flurobiphenyl (SURR)	8.866	3509691	42.989 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 85.98%	
11) S ortho-Terphenyl (SURR)	11.926	3465678	25.835 ug/ml
Spiked Amount 50.000		Recovery = 51.67%	
Target Compounds			

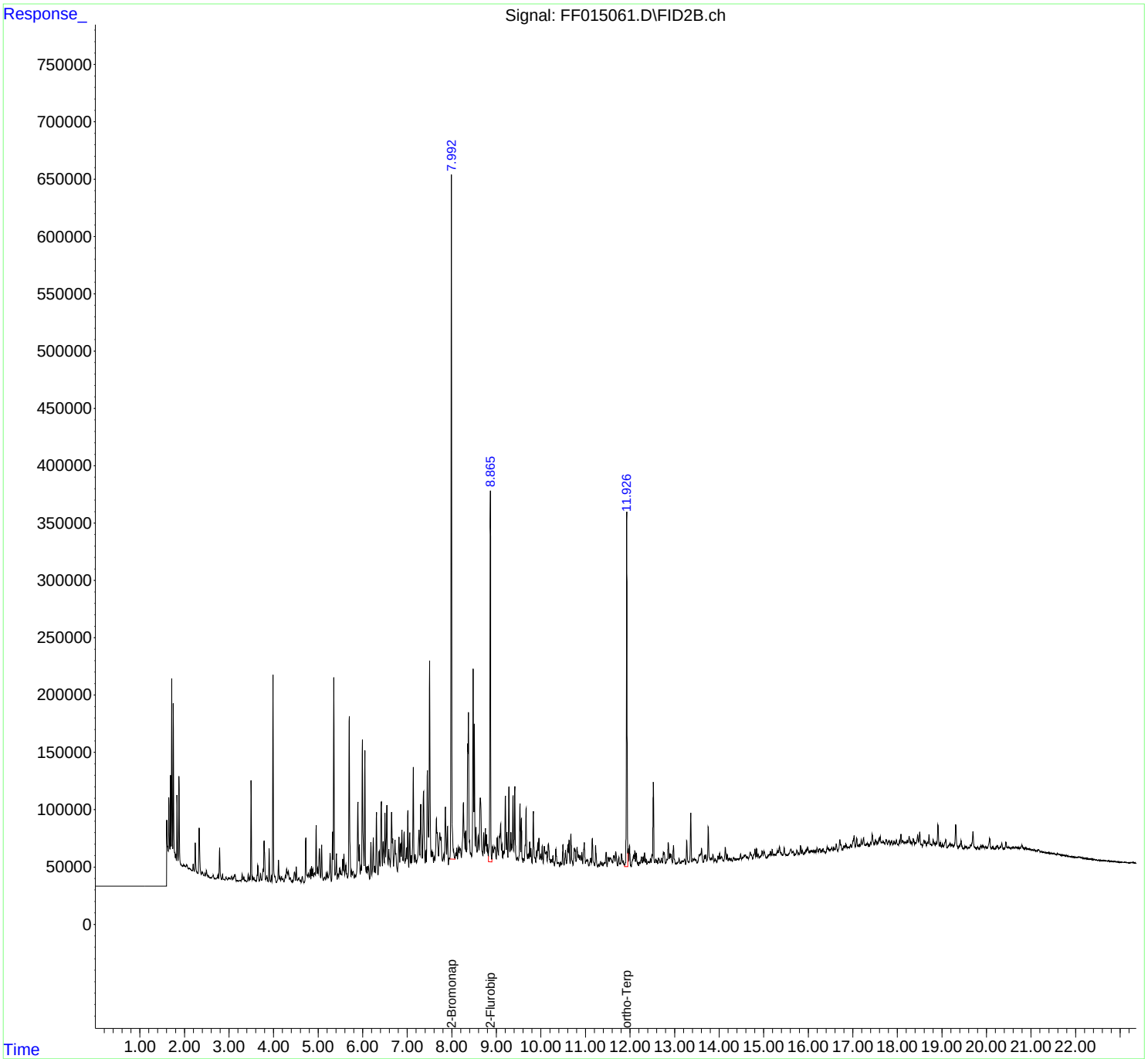
(f)=RT Delta > 1/2 Window (m)=manual int.

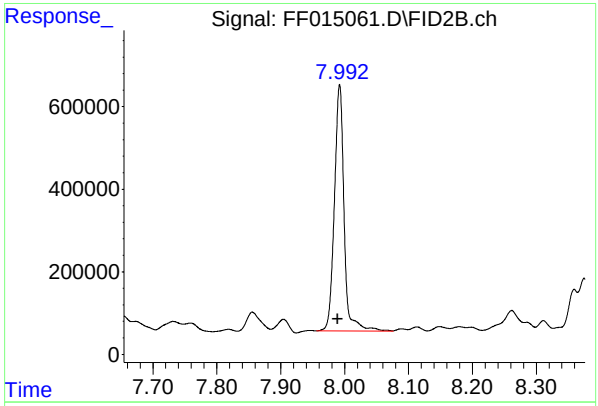
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015061.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:11
Operator : YP\AJ
Sample : P4839-15
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2

Integration File: autoint1.e
Quant Time: Nov 15 15:45:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

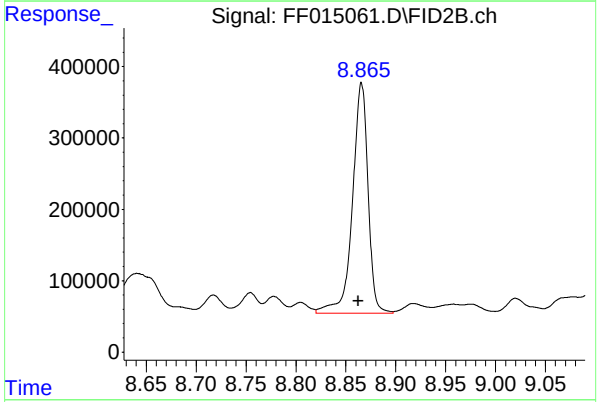




#4 2-Bromonaphthalene (SURR)

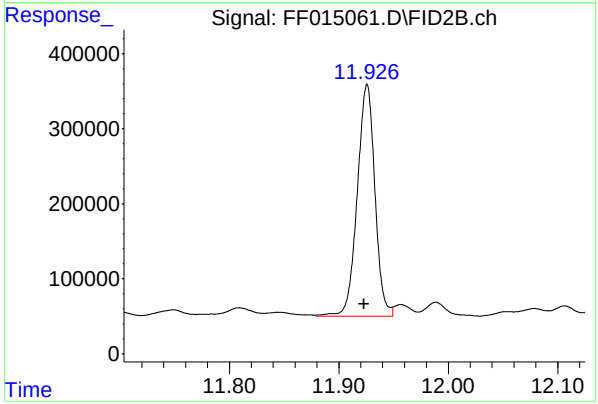
R.T.: 7.992 min
Delta R.T.: 0.003 min
Response: 6268215
Conc: 51.33 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2



#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.003 min
Response: 3509691
Conc: 42.99 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.926 min
Delta R.T.: 0.003 min
Response: 3465678
Conc: 25.84 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015061.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:11
Sample : P4839-15
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.468	4.438	4.493	PV	8333	147959	2.15%	0.122%
2	4.510	4.493	4.536	VV	13158	153781	2.24%	0.126%
3	4.569	4.536	4.593	VV	3476	79623	1.16%	0.065%
4	4.603	4.593	4.620	VV	1896	18901	0.27%	0.016%
5	4.646	4.620	4.683	PV	5089	77946	1.13%	0.064%
6	4.723	4.683	4.746	PV	38889	430363	6.26%	0.354%
7	4.756	4.746	4.768	VV	6572	80665	1.17%	0.066%
8	4.782	4.768	4.803	VV	8006	124964	1.82%	0.103%
9	4.823	4.803	4.838	VV	10992	143897	2.09%	0.118%
10	4.853	4.838	4.866	VV	14008	146955	2.14%	0.121%
11	4.879	4.866	4.898	VV	11478	156890	2.28%	0.129%
12	4.913	4.898	4.919	VV	7576	83917	1.22%	0.069%
13	4.928	4.919	4.938	VV	8143	84760	1.23%	0.070%
14	4.956	4.938	4.975	VV	49203	535396	7.79%	0.440%
15	4.989	4.975	5.003	VV	12289	160470	2.33%	0.132%
16	5.029	5.003	5.058	VV	28922	493955	7.19%	0.406%
17	5.079	5.058	5.119	VV	32068	401811	5.84%	0.330%
18	5.145	5.119	5.163	VV	4040	75245	1.09%	0.062%
19	5.183	5.163	5.199	VV	7669	100179	1.46%	0.082%
20	5.213	5.199	5.230	VV	7405	90350	1.31%	0.074%
21	5.271	5.230	5.299	VV	24569	354284	5.15%	0.291%
22	5.325	5.299	5.336	PV	43071	431393	6.27%	0.354%
23	5.353	5.336	5.381	VV	177689	1834812	26.69%	1.507%
24	5.410	5.381	5.428	VV	24117	310394	4.51%	0.255%
25	5.447	5.428	5.462	VV	6193	93792	1.36%	0.077%
26	5.483	5.462	5.498	VV	11418	176002	2.56%	0.145%
27	5.508	5.498	5.521	VV	8303	94177	1.37%	0.077%
28	5.526	5.521	5.534	VV	5622	39398	0.57%	0.032%
29	5.553	5.534	5.565	VV	18931	227106	3.30%	0.187%
30	5.580	5.565	5.598	VV	23588	291542	4.24%	0.240%
31	5.624	5.598	5.661	VV	13718	287413	4.18%	0.236%
32	5.698	5.661	5.737	VV	143253	1802033	26.21%	1.481%
33	5.752	5.737	5.765	VV	8666	106260	1.55%	0.087%
34	5.789	5.765	5.812	VV	7980	165090	2.40%	0.136%
35	5.831	5.812	5.845	VV	4570	67116	0.98%	0.055%
36	5.892	5.845	5.916	VV	67984	1042896	15.17%	0.857%

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37	5.927	5.916	5.946	VV	31076	336430	4.89%	0.276%
38	5.963	5.946	5.974	VV	12134	156442	2.28%	0.129%
39	5.994	5.974	6.032	VV	121844	1697416	24.69%	1.395%
40	6.050	6.032	6.080	VV	112486	1202249	17.49%	0.988%
41	6.092	6.080	6.104	VV	11357	129392	1.88%	0.106%
42	6.116	6.104	6.126	VV	11522	123250	1.79%	0.101%
43	6.135	6.126	6.157	VV	11147	116682	1.70%	0.096%
44	6.186	6.157	6.205	VV	32540	367502	5.35%	0.302%
45	6.239	6.205	6.258	VV	36452	519847	7.56%	0.427%
46	6.269	6.258	6.285	VV	11242	140736	2.05%	0.116%
47	6.310	6.285	6.345	VV	58372	776385	11.29%	0.638%
48	6.369	6.345	6.390	VV	24497	374019	5.44%	0.307%
49	6.418	6.390	6.444	VV	67557	1176072	17.11%	0.966%
50	6.460	6.444	6.485	VV	32433	560106	8.15%	0.460%
51	6.502	6.485	6.517	VV	57480	653149	9.50%	0.537%
52	6.544	6.517	6.571	VV	64207	1074611	15.63%	0.883%
53	6.588	6.571	6.620	VV	25774	518870	7.55%	0.426%
54	6.650	6.620	6.668	VV	57936	961546	13.99%	0.790%
55	6.674	6.668	6.694	VV	34508	380984	5.54%	0.313%
56	6.726	6.694	6.739	VV	33387	598841	8.71%	0.492%
57	6.746	6.739	6.781	VV	21432	343262	4.99%	0.282%
58	6.817	6.781	6.833	VV	35850	652358	9.49%	0.536%
59	6.852	6.833	6.866	VV	29811	467348	6.80%	0.384%
60	6.881	6.866	6.910	VV	41932	670299	9.75%	0.551%
61	6.931	6.910	6.949	VV	40104	604446	8.79%	0.497%
62	6.959	6.949	6.967	VV	16894	168929	2.46%	0.139%
63	6.984	6.967	6.998	VV	25991	372621	5.42%	0.306%
64	7.014	6.998	7.034	VV	58721	696475	10.13%	0.572%
65	7.056	7.034	7.079	VV	39102	628997	9.15%	0.517%
66	7.093	7.079	7.104	VV	19465	235857	3.43%	0.194%
67	7.137	7.104	7.161	VV	96204	1363566	19.83%	1.120%
68	7.178	7.161	7.194	VV	19996	331888	4.83%	0.273%
69	7.200	7.194	7.212	VV	14841	149430	2.17%	0.123%
70	7.266	7.212	7.285	VV	41112	1068948	15.55%	0.878%
71	7.304	7.285	7.339	VV	63476	1214639	17.67%	0.998%
72	7.367	7.339	7.403	VV	74560	1550417	22.55%	1.274%
73	7.417	7.403	7.431	VV	22827	285071	4.15%	0.234%
74	7.452	7.431	7.481	VV	92840	1590506	23.14%	1.307%
75	7.503	7.481	7.537	VV	188069	2601620	37.84%	2.137%
76	7.552	7.537	7.565	VV	22367	335353	4.88%	0.276%
77	7.576	7.565	7.592	VV	21464	285842	4.16%	0.235%
78	7.608	7.592	7.622	VV	17065	275548	4.01%	0.226%
79	7.655	7.622	7.668	VV	50670	854301	12.43%	0.702%
80	7.673	7.668	7.704	VV	38093	633447	9.21%	0.520%
81	7.732	7.704	7.748	VV	37910	806702	11.73%	0.663%
82	7.759	7.748	7.794	VV	33984	645702	9.39%	0.531%
83	7.818	7.794	7.832	VV	18772	363316	5.28%	0.298%
84	7.856	7.832	7.885	VV	60157	1122393	16.33%	0.922%
85	7.904	7.885	7.925	VV	43032	655903	9.54%	0.539%
86	7.947	7.925	7.956	VV	15705	255848	3.72%	0.210%
87	7.992	7.956	8.036	VV	611329	6874801	100.00%	5.648%
88	8.041	8.036	8.061	VV	21578	285723	4.16%	0.235%
89	8.066	8.061	8.075	VV	15927	133879	1.95%	0.110%

90	8.089	8.075	8.099	VV	19397	249129	3.62%	0.205%
91	8.113	8.099	8.130	VV	24025	365435	5.32%	0.300%
92	8.149	8.130	8.165	VV	24665	435955	6.34%	0.358%
93	8.180	8.165	8.190	VV	24249	341276	4.96%	0.280%
94	8.198	8.190	8.215	VV	23054	301382	4.38%	0.248%
95	8.262	8.215	8.281	VV	63394	1427731	20.77%	1.173%
96	8.285	8.281	8.298	VV	34896	324494	4.72%	0.267%
97	8.311	8.298	8.327	VV	38740	499749	7.27%	0.411%
98	8.360	8.327	8.365	VV	114564	1276589	18.57%	1.049%
99	8.375	8.365	8.419	VV	141025	2015884	29.32%	1.656%
100	8.426	8.419	8.448	VV	18365	300284	4.37%	0.247%
101	8.481	8.448	8.495	VV	179386	2308698	33.58%	1.897%
102	8.508	8.495	8.527	VV	131256	1481476	21.55%	1.217%
103	8.543	8.527	8.565	VV	41046	717581	10.44%	0.590%
104	8.595	8.565	8.614	VV	33725	746784	10.86%	0.614%
105	8.641	8.614	8.698	VV	66641	1994624	29.01%	1.639%
106	8.717	8.698	8.735	VV	36157	558510	8.12%	0.459%
107	8.754	8.735	8.767	VV	39560	542698	7.89%	0.446%
108	8.778	8.767	8.794	VV	34248	452244	6.58%	0.372%
109	8.805	8.794	8.820	VV	25787	335931	4.89%	0.276%
110	8.866	8.820	8.897	VV	333748	3994273	58.10%	3.282%
111	8.918	8.897	8.937	VV	23738	452856	6.59%	0.372%
112	8.958	8.937	8.967	VV	22915	388723	5.65%	0.319%
113	8.975	8.967	9.000	VV	22801	362237	5.27%	0.298%
114	9.020	9.000	9.049	VV	30955	627127	9.12%	0.515%
115	9.078	9.049	9.084	VV	32905	582608	8.47%	0.479%
116	9.098	9.084	9.116	VV	43374	645230	9.39%	0.530%
117	9.126	9.116	9.142	VV	25236	325878	4.74%	0.268%
118	9.157	9.142	9.181	VV	19393	402029	5.85%	0.330%
119	9.204	9.181	9.224	VV	67143	1016321	14.78%	0.835%
120	9.238	9.224	9.260	VV	35303	550196	8.00%	0.452%
121	9.284	9.260	9.307	VV	75005	1083230	15.76%	0.890%
122	9.329	9.307	9.343	VV	35328	542142	7.89%	0.445%
123	9.351	9.343	9.357	VV	23466	190391	2.77%	0.156%
124	9.374	9.357	9.391	VV	67143	832318	12.11%	0.684%
125	9.415	9.391	9.455	VV	75109	1221005	17.76%	1.003%
126	9.474	9.455	9.494	VV	13061	282754	4.11%	0.232%
127	9.531	9.494	9.548	VV	59836	916272	13.33%	0.753%
128	9.563	9.548	9.580	VV	46870	548097	7.97%	0.450%
129	9.586	9.580	9.599	VV	12148	119908	1.74%	0.099%
130	9.612	9.599	9.625	VV	11702	161724	2.35%	0.133%
131	9.668	9.625	9.700	VV	55681	1127070	16.39%	0.926%
132	9.715	9.700	9.732	VV	15396	258247	3.76%	0.212%
133	9.750	9.732	9.765	VV	26283	369115	5.37%	0.303%
134	9.777	9.765	9.802	VV	20660	317120	4.61%	0.261%
135	9.831	9.802	9.864	VV	52573	896835	13.05%	0.737%
136	9.870	9.864	9.885	VV	11970	133452	1.94%	0.110%
137	9.903	9.885	9.915	VV	17945	250059	3.64%	0.205%
138	9.931	9.915	9.943	VV	24804	338043	4.92%	0.278%
139	9.957	9.943	9.977	VV	29052	404767	5.89%	0.333%
140	9.996	9.977	10.014	VV	14990	285785	4.16%	0.235%
141	10.030	10.014	10.053	VV	22233	335831	4.88%	0.276%

142	10.076	10.053	10.098	VV	21743	434273	6.32%	0.357%
143	10.108	10.098	10.116	VV	16253	168089	2.45%	0.138%
144	10.125	10.116	10.143	VV	16940	222060	3.23%	0.182%
145	10.170	10.143	10.218	VV	23883	676112	9.83%	0.555%
146	10.234	10.218	10.250	VV	9794	165803	2.41%	0.136%
147	10.272	10.250	10.306	VV	13317	293554	4.27%	0.241%
148	10.336	10.306	10.372	VV	18571	424178	6.17%	0.349%
149	10.398	10.372	10.421	VV	6967	176305	2.56%	0.145%
150	10.440	10.421	10.452	VV	7515	107597	1.57%	0.088%
151	10.462	10.452	10.471	VV	5763	59719	0.87%	0.049%
152	10.495	10.471	10.519	VV	22419	344987	5.02%	0.283%
153	10.551	10.519	10.575	VV	17371	347050	5.05%	0.285%
154	10.604	10.575	10.617	VV	21780	341906	4.97%	0.281%
155	10.632	10.617	10.656	VV	25843	401264	5.84%	0.330%
156	10.674	10.656	10.721	VV	31416	525114	7.64%	0.431%
157	10.750	10.721	10.761	VV	18833	283297	4.12%	0.233%
158	10.766	10.761	10.789	VV	17308	219632	3.19%	0.180%
159	10.813	10.789	10.839	VV	19491	397732	5.79%	0.327%
160	10.852	10.839	10.867	VV	12680	187488	2.73%	0.154%
161	10.886	10.867	10.904	VV	11979	228367	3.32%	0.188%
162	10.920	10.904	10.938	VV	14999	214871	3.13%	0.177%
163	10.973	10.938	10.997	VV	23252	494857	7.20%	0.407%
164	11.009	10.997	11.013	VV	6753	60338	0.88%	0.050%
165	11.031	11.013	11.042	VV	8215	130890	1.90%	0.108%
166	11.054	11.042	11.074	VV	7835	109697	1.60%	0.090%
167	11.116	11.074	11.132	VV	9171	212926	3.10%	0.175%
168	11.154	11.132	11.204	VV	26424	441436	6.42%	0.363%
169	11.229	11.204	11.273	VV	20412	334408	4.86%	0.275%
170	11.295	11.273	11.314	VV	3734	60176	0.88%	0.049%
171	11.337	11.314	11.354	VV	5987	97814	1.42%	0.080%
172	11.366	11.354	11.389	VV	4921	82127	1.19%	0.067%
173	11.464	11.389	11.486	VV	13804	330049	4.80%	0.271%
174	11.512	11.486	11.532	VV	9504	188976	2.75%	0.155%
175	11.548	11.532	11.561	VV	9240	134442	1.96%	0.110%
176	11.568	11.561	11.594	VV	8422	142682	2.08%	0.117%
177	11.603	11.594	11.614	VV	5947	63865	0.93%	0.052%
178	11.633	11.614	11.662	VV	10724	246251	3.58%	0.202%
179	11.680	11.662	11.720	VV	13700	275925	4.01%	0.227%
180	11.749	11.720	11.770	VV	9172	164735	2.40%	0.135%
181	11.809	11.770	11.831	VV	11858	230677	3.36%	0.190%
182	11.845	11.831	11.879	VV	5808	110407	1.61%	0.091%
183	11.926	11.879	11.948	VV	309570	3474459	50.54%	2.855%
184	11.957	11.948	11.973	VV	15881	177663	2.58%	0.146%
185	11.989	11.973	12.029	VV	18903	250186	3.64%	0.206%
186	12.055	12.029	12.060	VV	6276	70425	1.02%	0.058%
187	12.079	12.060	12.092	VV	10305	156266	2.27%	0.128%
188	12.106	12.092	12.123	VV	13819	177338	2.58%	0.146%
189	12.139	12.123	12.191	VV	12003	228224	3.32%	0.188%
190	12.210	12.191	12.224	VV	3770	53487	0.78%	0.044%
191	12.256	12.224	12.276	VV	8178	167796	2.44%	0.138%
192	12.296	12.276	12.309	VV	8391	114875	1.67%	0.094%
193	12.326	12.309	12.346	VV	11761	166617	2.42%	0.137%
194	12.360	12.346	12.378	VV	6041	79834	1.16%	0.066%

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195	12.401	12.378	12.414	VV	3828	67060	0.98%	0.055%
196	12.429	12.414	12.441	VV	3709	54580	0.79%	0.045%
197	12.459	12.441	12.473	VV	6374	87849	1.28%	0.072%
198	12.493	12.473	12.501	VV	9887	119745	1.74%	0.098%
199	12.523	12.501	12.554	VV	72964	887367	12.91%	0.729%
200	12.577	12.554	12.593	VV	6009	100052	1.46%	0.082%
201	12.606	12.593	12.621	VV	4494	56560	0.82%	0.046%
202	12.638	12.621	12.675	VV	6762	144798	2.11%	0.119%
203	12.704	12.675	12.729	VV	6416	128506	1.87%	0.106%
204	12.749	12.729	12.759	VV	11536	141716	2.06%	0.116%
205	12.766	12.759	12.794	VV	11152	141381	2.06%	0.116%
206	12.826	12.794	12.839	VV	5257	94030	1.37%	0.077%
207	12.858	12.839	12.878	VV	19662	274957	4.00%	0.226%
208	12.895	12.878	12.909	VV	9814	148377	2.16%	0.122%
209	12.921	12.909	12.952	VV	9356	150200	2.18%	0.123%
210	12.973	12.952	13.017	VV	17054	267408	3.89%	0.220%
211	13.035	13.017	13.045	VV	1530	19920	0.29%	0.016%
212	13.100	13.045	13.118	VV	6027	117562	1.71%	0.097%
213	13.133	13.118	13.145	VV	2064	26669	0.39%	0.022%
214	13.163	13.145	13.179	VV	3396	49898	0.73%	0.041%
215	13.194	13.179	13.202	VV	2942	35290	0.51%	0.029%
216	13.220	13.202	13.247	VV	4722	81581	1.19%	0.067%
217	13.271	13.247	13.319	PV	20625	285720	4.16%	0.235%
218	13.361	13.319	13.393	VV	44666	607912	8.84%	0.499%
219	13.410	13.393	13.432	VV	4686	83928	1.22%	0.069%
220	13.445	13.432	13.469	VV	4464	82852	1.21%	0.068%
221	13.480	13.469	13.508	VV	3523	49286	0.72%	0.040%
222	13.552	13.508	13.567	VV	7900	169664	2.47%	0.139%
223	13.582	13.567	13.589	VV	8444	101715	1.48%	0.084%
224	13.604	13.589	13.651	VV	13139	211420	3.08%	0.174%
225	13.670	13.651	13.683	VV	7091	85499	1.24%	0.070%
226	13.700	13.683	13.721	VV	7314	116132	1.69%	0.095%
227	13.754	13.721	13.809	VV	31560	501387	7.29%	0.412%
228	13.824	13.809	13.838	VV	4592	63600	0.93%	0.052%
229	13.858	13.838	13.884	VV	7559	123754	1.80%	0.102%
230	13.906	13.884	13.926	VV	3647	59820	0.87%	0.049%
231	13.930	13.926	13.948	VV	1967	16536	0.24%	0.014%
232	13.973	13.948	13.991	PV	5797	92540	1.35%	0.076%
233	14.009	13.991	14.024	VV	8067	109443	1.59%	0.090%
234	14.053	14.024	14.104	VV	4995	153242	2.23%	0.126%
235	14.137	14.104	14.162	VV	12790	211405	3.08%	0.174%
236	14.179	14.162	14.201	VV	6452	85771	1.25%	0.070%
237	14.222	14.201	14.259	VV	3014	72161	1.05%	0.059%
238	14.271	14.259	14.294	VV	2112	27344	0.40%	0.022%
239	14.321	14.294	14.357	VV	3176	69786	1.02%	0.057%
240	14.373	14.357	14.391	VV	1947	28267	0.41%	0.023%
241	14.405	14.391	14.419	VV	1861	26262	0.38%	0.022%
242	14.427	14.419	14.439	VV	1941	18627	0.27%	0.015%
243	14.480	14.439	14.499	VV	5905	107170	1.56%	0.088%
244	14.510	14.499	14.514	VV	1929	14745	0.21%	0.012%
245	14.559	14.514	14.564	VV	3684	82272	1.20%	0.068%
246	14.594	14.564	14.607	VV	4874	104628	1.52%	0.086%

247	14.614	14.607	14.652	VV	2920	62169	0.90%	0.051%
248	14.697	14.652	14.714	VV	6929	149809	2.18%	0.123%
249	14.719	14.714	14.752	VV	4509	66272	0.96%	0.054%
250	14.802	14.752	14.822	VV	9077	194063	2.82%	0.159%
251	14.840	14.822	14.857	VV	9523	120899	1.76%	0.099%
252	14.871	14.857	14.904	VV	4217	81687	1.19%	0.067%
253	14.961	14.904	14.985	VV	7107	173703	2.53%	0.143%
254	15.002	14.985	15.052	VV	6867	166075	2.42%	0.136%
255	15.075	15.052	15.081	VV	1614	18271	0.27%	0.015%
256	15.128	15.081	15.134	VV	3537	85190	1.24%	0.070%
257	15.150	15.134	15.172	VV	6038	96116	1.40%	0.079%
258	15.190	15.172	15.209	VV	7674	106328	1.55%	0.087%
259	15.218	15.209	15.231	VV	3587	40791	0.59%	0.034%
260	15.239	15.231	15.248	VV	3384	31286	0.46%	0.026%
261	15.252	15.248	15.274	VV	2919	41551	0.60%	0.034%
262	15.309	15.274	15.327	VV	6219	147228	2.14%	0.121%
263	15.354	15.327	15.417	VV	9567	278868	4.06%	0.229%
264	15.459	15.417	15.483	VV	8310	161431	2.35%	0.133%
265	15.489	15.483	15.507	VV	2504	29726	0.43%	0.024%
266	15.511	15.507	15.520	VV	1839	13095	0.19%	0.011%
267	15.527	15.520	15.542	VV	1732	21609	0.31%	0.018%
268	15.611	15.542	15.634	VV	6402	222662	3.24%	0.183%
269	15.641	15.634	15.645	VV	4123	25203	0.37%	0.021%
270	15.657	15.645	15.683	VV	4615	76882	1.12%	0.063%
271	15.708	15.683	15.712	VV	2025	27021	0.39%	0.022%
272	15.743	15.712	15.769	VV	5247	111867	1.63%	0.092%
273	15.782	15.769	15.801	VV	2622	39378	0.57%	0.032%
274	15.825	15.801	15.845	VV	8996	137107	1.99%	0.113%
275	15.863	15.845	15.896	VV	5246	87267	1.27%	0.072%
276	15.911	15.896	15.926	VV	2499	35089	0.51%	0.029%
277	15.950	15.926	15.959	VV	4482	69883	1.02%	0.057%
278	15.986	15.959	16.032	VV	6543	191096	2.78%	0.157%
279	16.039	16.032	16.044	VV	3293	22510	0.33%	0.018%
280	16.061	16.044	16.066	VV	3984	47840	0.70%	0.039%
281	16.070	16.066	16.083	VV	4219	35668	0.52%	0.029%
282	16.087	16.083	16.100	VV	3504	35837	0.52%	0.029%
283	16.113	16.100	16.131	VV	3461	57188	0.83%	0.047%
284	16.157	16.131	16.173	VV	3526	70824	1.03%	0.058%
285	16.197	16.173	16.226	VV	5815	122211	1.78%	0.100%
286	16.250	16.226	16.281	VV	5082	127579	1.86%	0.105%
287	16.300	16.281	16.305	VV	3238	41861	0.61%	0.034%
288	16.334	16.305	16.349	VV	4639	95835	1.39%	0.079%
289	16.358	16.349	16.381	VV	2561	36882	0.54%	0.030%
290	16.425	16.381	16.451	VV	5971	151494	2.20%	0.124%
291	16.461	16.451	16.482	VV	4002	62730	0.91%	0.052%
292	16.492	16.482	16.502	VV	3443	38302	0.56%	0.031%
293	16.530	16.502	16.553	VV	5211	119705	1.74%	0.098%
294	16.585	16.553	16.604	VV	4468	112077	1.63%	0.092%
295	16.627	16.604	16.661	VV	7881	160993	2.34%	0.132%
296	16.707	16.661	16.766	VV	11513	360216	5.24%	0.296%
297	16.810	16.766	16.821	VV	5749	141902	2.06%	0.117%
298	16.841	16.821	16.886	VV	6801	207121	3.01%	0.170%
299	16.891	16.886	16.897	VV	4418	29670	0.43%	0.024%

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300	16.909	16.897	16.920	VV	4621	58353	0.85%	0.048%
301	16.951	16.920	16.971	VV	6674	157440	2.29%	0.129%
302	17.027	16.971	17.049	VV	14108	403601	5.87%	0.332%
303	17.084	17.049	17.109	VV	11585	255540	3.72%	0.210%
304	17.114	17.109	17.124	VV	4895	40643	0.59%	0.033%
305	17.142	17.124	17.164	VV	5522	123949	1.80%	0.102%
306	17.188	17.164	17.208	VV	9860	188411	2.74%	0.155%
307	17.239	17.208	17.279	VV	11644	313761	4.56%	0.258%
308	17.299	17.279	17.308	VV	5579	93005	1.35%	0.076%
309	17.321	17.308	17.352	VV	6537	143064	2.08%	0.118%
310	17.360	17.352	17.367	VV	4349	35995	0.52%	0.030%
311	17.398	17.367	17.412	VV	7005	152280	2.22%	0.125%
312	17.434	17.412	17.478	VV	14166	349866	5.09%	0.287%
313	17.511	17.478	17.531	VV	8503	214684	3.12%	0.176%
314	17.540	17.531	17.559	VV	6959	104036	1.51%	0.085%
315	17.587	17.559	17.600	VV	9880	197473	2.87%	0.162%
316	17.614	17.600	17.634	VV	11407	186896	2.72%	0.154%
317	17.646	17.634	17.662	VV	6648	103030	1.50%	0.085%
318	17.676	17.662	17.699	VV	7153	137995	2.01%	0.113%
319	17.702	17.699	17.719	VV	5829	63725	0.93%	0.052%
320	17.745	17.719	17.749	VV	8177	117120	1.70%	0.096%
321	17.753	17.749	17.775	VV	8151	102512	1.49%	0.084%
322	17.816	17.775	17.838	VV	7632	217857	3.17%	0.179%
323	17.844	17.838	17.847	VV	4459	22604	0.33%	0.019%
324	17.869	17.847	17.895	VV	7280	160937	2.34%	0.132%
325	17.932	17.895	17.953	VV	6090	172955	2.52%	0.142%
326	17.975	17.953	18.023	VV	6790	194038	2.82%	0.159%
327	18.049	18.023	18.058	VV	6647	102388	1.49%	0.084%
328	18.079	18.058	18.100	VV	12092	207355	3.02%	0.170%
329	18.116	18.100	18.147	VV	6570	152064	2.21%	0.125%
330	18.175	18.147	18.197	VV	4584	132618	1.93%	0.109%
331	18.225	18.197	18.239	VV	6058	128750	1.87%	0.106%
332	18.264	18.239	18.285	VV	9588	188883	2.75%	0.155%
333	18.289	18.285	18.294	VV	4245	22584	0.33%	0.019%
334	18.302	18.294	18.326	VV	4750	78025	1.13%	0.064%
335	18.360	18.326	18.389	VV	6534	171028	2.49%	0.141%
336	18.405	18.389	18.414	VV	3692	49243	0.72%	0.040%
337	18.455	18.414	18.477	VV	10147	229302	3.34%	0.188%
338	18.500	18.477	18.529	VV	12676	218844	3.18%	0.180%
339	18.541	18.529	18.560	VV	2147	27095	0.39%	0.022%
340	18.595	18.560	18.620	VV	4770	105229	1.53%	0.086%
341	18.627	18.620	18.650	VV	3626	46123	0.67%	0.038%
342	18.676	18.650	18.689	VV	3431	53364	0.78%	0.044%
343	18.709	18.689	18.775	VV	9664	154800	2.25%	0.127%

Sum of corrected areas: 121714969

Aromatic EPH 111524.M Fri Nov 15 15:49:50 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-2		SDG No.:	P4839	
Lab Sample ID:	P4839-15		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84	
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
FE051343.D	10	11/14/24	11/19/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	69.7		4.51	11.9	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	120		2.85	7.92	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	17.9		3.56	11.9	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	9.50	U	9.50	15.8	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.79	J	21.4	23.8	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	2.86		40 - 140	57%	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:	P4839-15DL	Acq On:	19 Nov 2024 10:27
Client Sample ID:	P4839-15DL	Operator:	YP\AJ
Data file:	FE051343.D	Misc:	
Instrument:	FID_E	ALS Vial:	7
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.136	6.752	12315551	88.022	300	ug/ml
Aliphatic C12-C16	6.753	10.184	21427572	152.362	200	ug/ml
Aliphatic C16-C21	10.185	13.543	3107353	22.555	300	ug/ml
Aliphatic C21-C28	13.544	17.198	355619	2.655	400	ug/ml
Aliphatic C28-C40	17.199	22.041	1266265	9.835	600	ug/ml
Aliphatic EPH	3.136	22.041	38472360	275.429		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.278	13.278	324946	2.86		ug/ml
Aliphatic C9-C28	3.136	17.198	37206095	265.594	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051343.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 10:27
Operator : YP\AJ
Sample : P4839-15DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File: autoint1.e
Quant Time: Nov 20 02:35:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.278	324946	2.862 ug/mlm
Spiked Amount 50.000		Recovery =	5.72%
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051343.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 10:27
Operator : YP\AJ
Sample : P4839-15DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

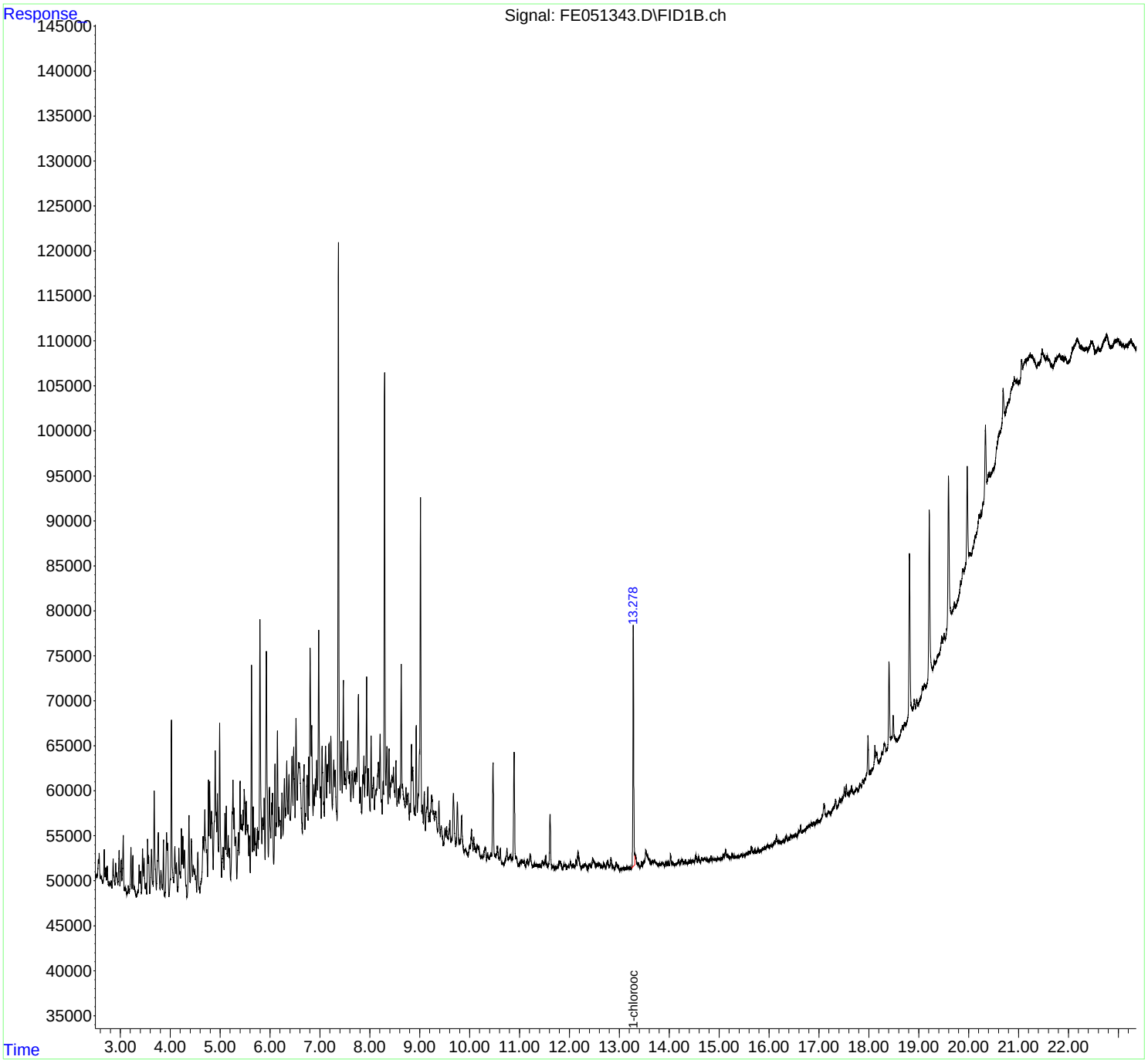
Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

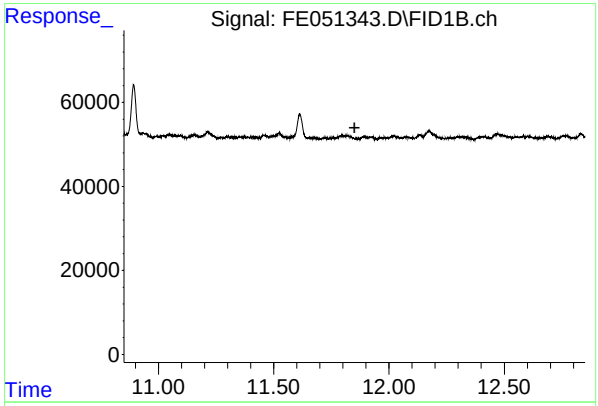
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File: autoint1.e
Quant Time: Nov 20 02:35:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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





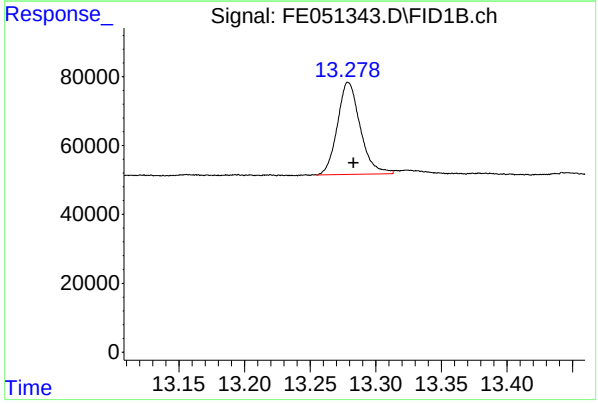
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 mi
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.278 min
Delta R.T.: -0.005 min
Response: 324946
Conc: 2.86 ug/ml m

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11192
Data File : FE051343.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 10:27
Sample : P4839-15DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.251	3.214	3.322	BV	1040	-66259	-6.23%	-0.172%
2	3.404	3.391	3.424	VV	2770	33368	3.14%	0.087%
3	3.446	3.424	3.461	VV	5326	63310	5.95%	0.165%
4	3.475	3.461	3.504	VV	4087	60976	5.73%	0.158%
5	3.514	3.504	3.527	VV	1436	13801	1.30%	0.036%
6	3.547	3.527	3.590	VV	6262	119378	11.22%	0.310%
7	3.625	3.590	3.661	VV	5167	99746	9.38%	0.259%
8	3.679	3.661	3.721	VV	11472	175561	16.50%	0.456%
9	3.761	3.721	3.795	VV	7033	150536	14.15%	0.391%
10	3.815	3.795	3.848	VV	2821	52733	4.96%	0.137%
11	3.864	3.848	3.891	VV	6249	62802	5.90%	0.163%
12	3.927	3.891	3.975	VV	7089	168912	15.88%	0.439%
13	4.024	3.975	4.070	VV	19617	267941	25.19%	0.696%
14	4.092	4.070	4.111	VV	5467	86557	8.14%	0.225%
15	4.124	4.111	4.151	VV	3748	52714	4.96%	0.137%
16	4.174	4.151	4.207	VV	5241	93840	8.82%	0.244%
17	4.254	4.240	4.270	VV	6691	91394	8.59%	0.238%
18	4.286	4.270	4.337	VV	5063	102434	9.63%	0.266%
19	4.376	4.337	4.400	PV	9022	126419	11.88%	0.329%
20	4.424	4.400	4.449	VV	6293	114392	10.75%	0.297%
21	4.493	4.483	4.531	VV	2995	58380	5.49%	0.152%
22	4.553	4.531	4.596	VV	4839	80941	7.61%	0.210%
23	4.659	4.596	4.678	VV	6509	156736	14.73%	0.407%
24	4.693	4.678	4.749	VV	9476	247491	23.27%	0.643%
25	4.767	4.749	4.778	VV	12777	138505	13.02%	0.360%
26	4.791	4.778	4.812	VV	12640	186864	17.57%	0.486%
27	4.827	4.812	4.861	VV	9257	210030	19.75%	0.546%
28	4.902	4.861	4.933	VV	15956	386353	36.32%	1.004%
29	4.945	4.933	4.970	VV	11146	169080	15.90%	0.439%
30	4.991	4.970	5.030	VV	19022	303560	28.54%	0.789%
31	5.061	5.030	5.078	VV	5143	111917	10.52%	0.291%
32	5.124	5.111	5.148	VV	9773	141289	13.28%	0.367%
33	5.163	5.148	5.178	VV	6515	93519	8.79%	0.243%
34	5.188	5.178	5.210	VV	4983	70200	6.60%	0.182%
35	5.281	5.272	5.298	VV	9541	115894	10.90%	0.301%
36	5.314	5.298	5.336	VV	6262	109035	10.25%	0.283%

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

rteres

37	5.367	5.336	5.380	VV	6778	122067	11.48%	0.317%
38	5.400	5.380	5.414	VV	12494	179722	16	
39	5.423	5.414	5.451	VV	8712	167788	15	
40	5.462	5.451	5.471	VV	9129	97528	9	
41	5.485	5.471	5.509	VV	11311	215577	20	
42	5.524	5.509	5.546	VV	10178	184103	17	
43	5.556	5.546	5.573	VV	7543	106619	10.02%	0.277%
44	5.585	5.573	5.604	VV	6245	83561	7.86%	0.217%
45	5.631	5.604	5.650	VV	25215	333809	31.38%	0.868%
46	5.664	5.650	5.682	VV	9431	128251	12.06%	0.333%
47	5.696	5.682	5.728	VV	7173	151460	14.24%	0.394%
48	5.746	5.728	5.760	VV	7171	113213	10.64%	0.294%
49	5.772	5.760	5.778	VV	6765	64518	6.07%	0.168%
50	5.799	5.778	5.837	VV	30306	502457	47.24%	1.306%
51	5.851	5.837	5.868	VV	8157	138549	13.03%	0.360%
52	5.883	5.868	5.901	VV	10359	145755	13.70%	0.379%
53	5.928	5.901	5.967	VV	26604	507328	47.69%	1.319%
54	5.989	5.967	6.016	VV	11521	226433	21.29%	0.589%
55	6.050	6.040	6.074	VV	10877	150677	14.17%	0.392%
56	6.100	6.074	6.116	VV	14004	199960	18.80%	0.520%
57	6.149	6.116	6.169	VV	17722	334846	31.48%	0.870%
58	6.182	6.169	6.196	VV	9311	130603	12.28%	0.339%
59	6.204	6.196	6.221	VV	7794	108518	10.20%	0.282%
60	6.241	6.221	6.262	VV	10775	204832	19.26%	0.532%
61	6.288	6.262	6.318	VV	12419	309379	29.09%	0.804%
62	6.336	6.318	6.361	VV	14328	280848	26.40%	0.730%
63	6.381	6.361	6.411	VV	12874	302353	28.42%	0.786%
64	6.441	6.411	6.460	VV	14887	334256	31.42%	0.869%
65	6.475	6.460	6.503	VV	15852	314634	29.58%	0.818%
66	6.522	6.503	6.546	VV	19035	352409	33.13%	0.916%
67	6.576	6.546	6.647	VV	14061	689717	64.84%	1.793%
68	6.683	6.647	6.701	VV	13913	332500	31.26%	0.864%
69	6.745	6.701	6.761	VV	12598	350932	32.99%	0.912%
70	6.776	6.761	6.787	VV	14568	176556	16.60%	0.459%
71	6.805	6.787	6.826	VV	26584	444843	41.82%	1.156%
72	6.836	6.826	6.863	VV	18146	298094	28.02%	0.775%
73	6.878	6.863	6.890	VV	11454	157104	14.77%	0.408%
74	6.909	6.890	6.921	VV	12170	203490	19.13%	0.529%
75	6.937	6.921	6.953	VV	14207	239492	22.51%	0.623%
76	6.977	6.953	7.006	VV	28518	540308	50.80%	1.404%
77	7.013	7.006	7.027	VV	11286	128597	12.09%	0.334%
78	7.045	7.027	7.090	VV	15751	427682	40.21%	1.112%
79	7.115	7.090	7.135	VV	15657	341148	32.07%	0.887%
80	7.150	7.135	7.161	VV	13712	186048	17.49%	0.484%
81	7.182	7.161	7.201	VV	16009	323830	30.44%	0.842%
82	7.220	7.201	7.249	VV	16765	369879	34.77%	0.961%
83	7.279	7.249	7.293	VV	14129	312993	29.42%	0.814%
84	7.306	7.293	7.344	VV	12959	312336	29.36%	0.812%
85	7.371	7.344	7.407	VV	71511	1063701	100.00%	2.765%
86	7.426	7.407	7.447	VV	16172	325977	30.65%	0.847%
87	7.470	7.447	7.489	VV	22890	393283	36.97%	1.022%
88	7.500	7.489	7.526	VV	12712	267897	25.19%	0.696%
89	7.556	7.526	7.588	VV	16236	488596	45.93%	1.270%

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

rteres

90	7.600	7.588	7.620	VV	12752	219353	20.62%	0.570%
91	7.646	7.620	7.670	VV	12745	335487	31	
92	7.686	7.670	7.695	VV	12827	176655	16	
93	7.703	7.695	7.714	VV	12419	139855	13	
94	7.729	7.714	7.743	VV	13130	213097	20	
95	7.772	7.743	7.801	VV	21220	515818	48	
96	7.816	7.801	7.838	VV	10940	213279	20.05%	0.554%
97	7.882	7.838	7.897	VV	14322	404585	38.04%	1.052%
98	7.937	7.897	7.955	VV	23155	506705	47.64%	1.317%
99	7.970	7.955	8.004	VV	12976	318180	29.91%	0.827%
100	8.027	8.004	8.047	VV	16515	306847	28.85%	0.798%
101	8.076	8.047	8.094	VV	11920	300871	28.29%	0.782%
102	8.173	8.094	8.189	VV	13668	631802	59.40%	1.642%
103	8.207	8.189	8.249	VV	16633	421357	39.61%	1.095%
104	8.297	8.249	8.323	VV	56777	925718	87.03%	2.406%
105	8.345	8.323	8.368	VV	15321	338436	31.82%	0.880%
106	8.386	8.368	8.405	VV	14999	267027	25.10%	0.694%
107	8.443	8.405	8.459	VV	11961	359698	33.82%	0.935%
108	8.476	8.459	8.508	VV	12898	327386	30.78%	0.851%
109	8.525	8.508	8.548	VV	13663	265500	24.96%	0.690%
110	8.571	8.548	8.585	VV	10492	212421	19.97%	0.552%
111	8.598	8.585	8.611	VV	10709	158227	14.88%	0.411%
112	8.631	8.611	8.707	VV	24378	707648	66.53%	1.839%
113	8.726	8.707	8.744	VV	10548	211933	19.92%	0.551%
114	8.764	8.744	8.793	VV	9949	267160	25.12%	0.694%
115	8.808	8.793	8.817	VV	8798	113628	10.68%	0.295%
116	8.835	8.817	8.849	VV	15266	230667	21.69%	0.600%
117	8.861	8.849	8.888	VV	12749	253644	23.85%	0.659%
118	8.899	8.888	8.910	VV	8237	105048	9.88%	0.273%
119	8.931	8.910	8.954	VV	17383	306893	28.85%	0.798%
120	9.017	8.954	9.045	VV	42685	897420	84.37%	2.333%
121	9.056	9.045	9.075	VV	8497	140083	13.17%	0.364%
122	9.093	9.075	9.116	VV	9923	196827	18.50%	0.512%
123	9.164	9.116	9.183	VV	10545	321172	30.19%	0.835%
124	9.196	9.183	9.207	VV	7620	106348	10.00%	0.276%
125	9.239	9.207	9.265	VV	9604	289797	27.24%	0.753%
126	9.276	9.265	9.296	VV	7781	138039	12.98%	0.359%
127	9.326	9.296	9.358	VV	7620	257018	24.16%	0.668%
128	9.387	9.358	9.414	VV	8892	223336	21.00%	0.581%
129	9.432	9.414	9.471	VV	6090	180006	16.92%	0.468%
130	9.508	9.471	9.524	VV	5717	154457	14.52%	0.401%
131	9.540	9.524	9.573	VV	6004	150587	14.16%	0.391%
132	9.604	9.573	9.626	VV	6529	174409	16.40%	0.453%
133	9.677	9.626	9.721	VV	9542	335394	31.53%	0.872%
134	9.756	9.721	9.786	VV	8576	225052	21.16%	0.585%
135	9.794	9.786	9.811	VV	4353	64219	6.04%	0.167%
136	9.840	9.811	9.886	VV	7058	210636	19.80%	0.548%
137	9.916	9.886	9.973	VV	3312	159583	15.00%	0.415%
138	10.003	9.973	10.015	VV	3692	83159	7.82%	0.216%
139	10.039	10.015	10.068	VV	5501	139048	13.07%	0.361%
140	10.084	10.068	10.127	VV	4615	128409	12.07%	0.334%
141	10.157	10.127	10.174	VV	3630	95794	9.01%	0.249%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

rteres

142	10.185	10.174	10.226	VV	3457	89892	8.45%	0.234%
143	10.313	10.226	10.343	VV	3312	184600	17	
144	10.362	10.343	10.394	VV	2741	72857	6	
145	10.428	10.394	10.440	VV	2727	67335	6	
146	10.470	10.440	10.521	VV	12714	255161	23	
147	10.558	10.521	10.597	VV	3359	118216	11	
148	10.616	10.597	10.644	VV	3203	64859	6.10%	0.169%
149	10.671	10.644	10.691	VV	1545	42014	3.95%	0.109%
150	10.750	10.691	10.785	VV	3124	120065	11.29%	0.312%
151	10.820	10.785	10.858	VV	2427	91456	8.60%	0.238%
152	10.893	10.858	10.973	VV	13716	286910	26.97%	0.746%
153	10.992	10.973	11.008	VV	1417	26624	2.50%	0.069%
154	11.048	11.008	11.080	VV	1725	67748	6.37%	0.176%
155	11.093	11.080	11.123	VV	1624	35002	3.29%	0.091%
156	11.154	11.123	11.180	VV	1642	48207	4.53%	0.125%
157	11.214	11.180	11.261	VV	2393	77238	7.26%	0.201%
158	11.272	11.261	11.282	VV	1111	12436	1.17%	0.032%
159	11.302	11.282	11.321	VV	1321	26441	2.49%	0.069%
160	11.352	11.321	11.395	VV	1143	46538	4.38%	0.121%
161	11.410	11.395	11.435	VV	1082	24636	2.32%	0.064%
162	11.457	11.435	11.481	VV	1492	34860	3.28%	0.091%
163	11.524	11.481	11.567	VV	2035	68000	6.39%	0.177%
164	11.613	11.567	11.664	VV	6578	133385	12.54%	0.347%
165	11.681	11.664	11.701	VV	819	15841	1.49%	0.041%
166	11.720	11.701	11.735	VV	806	13810	1.30%	0.036%
167	11.797	11.735	11.865	VV	1273	71284	6.70%	0.185%
168	11.891	11.865	11.907	VV	1073	19872	1.87%	0.052%
169	11.926	11.907	11.951	VV	959	19937	1.87%	0.052%
170	11.981	11.951	11.990	VV	807	16174	1.52%	0.042%
171	12.021	11.990	12.054	VV	1272	34189	3.21%	0.089%
172	12.075	12.054	12.108	VV	939	23922	2.25%	0.062%
173	12.134	12.108	12.148	VV	1328	23373	2.20%	0.061%
174	12.172	12.148	12.241	VV	2215	69279	6.51%	0.180%
175	12.262	12.241	12.270	VV	665	10021	0.94%	0.026%
176	12.317	12.270	12.368	VV	899	38461	3.62%	0.100%
177	12.414	12.368	12.432	VV	892	25022	2.35%	0.065%
178	12.467	12.432	12.538	VV	1442	59835	5.63%	0.156%
179	12.549	12.538	12.568	VV	772	12246	1.15%	0.032%
180	12.584	12.568	12.594	VV	886	12244	1.15%	0.032%
181	12.602	12.594	12.647	VV	869	19531	1.84%	0.051%
182	12.688	12.647	12.728	VV	841	27548	2.59%	0.072%
183	12.767	12.728	12.807	VV	993	30708	2.89%	0.080%
184	12.833	12.807	12.907	VV	1445	35584	3.35%	0.092%
185	12.940	12.907	12.966	VV	866	18605	1.75%	0.048%
186	12.978	12.966	13.005	VV	454	6383	0.60%	0.017%
187	13.037	13.005	13.054	VV	126	2294	0.22%	0.006%
188	13.072	13.054	13.084	VV	191	2149	0.20%	0.006%
189	13.095	13.084	13.108	VV	216	2235	0.21%	0.006%
190	13.123	13.108	13.141	VV	143	1849	0.17%	0.005%
191	13.157	13.141	13.181	PV	305	3839	0.36%	0.010%
192	13.194	13.181	13.238	VV	253	3969	0.37%	0.010%
193	13.279	13.238	13.368	VV	27115	368756	34.67%	0.958%
194	13.379	13.368	13.419	VV	581	11739	1.10%	0.031%

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-2DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

					rteres			
195	13.446	13.419	13.465	VV	702	11385	1.07%	0.030%
196	13.530	13.465	13.638	VV	1931	100789	9	
197	13.667	13.638	13.682	VV	729	15792	1	
198	13.702	13.682	13.785	VV	766	28840	2	
199	15.468	15.464	15.478	VV	157	773	0	
200	15.905	15.884	15.926	VV	281	4621	0	
201	15.970	15.926	16.011	VV	413	12528	1.18%	0.033%
202	16.018	16.011	16.061	VV	252	4978	0.47%	0.013%
203	16.112	16.061	16.125	VV	511	11534	1.08%	0.030%
204	16.149	16.125	16.202	VV	1152	24303	2.28%	0.063%
205	16.214	16.202	16.241	VV	200	3469	0.33%	0.009%
206	16.286	16.241	16.303	VV	216	4342	0.41%	0.011%
207	16.350	16.303	16.373	PV	551	10950	1.03%	0.028%
208	16.397	16.373	16.414	PV	210	3068	0.29%	0.008%
209	16.446	16.414	16.463	VV	361	7266	0.68%	0.019%
210	16.485	16.463	16.513	VV	279	6384	0.60%	0.017%
211	16.527	16.513	16.561	VV	285	3781	0.36%	0.010%
212	16.600	16.561	16.610	PV	546	9322	0.88%	0.024%
213	16.633	16.610	16.660	VV	999	15431	1.45%	0.040%
214	16.705	16.660	16.732	VV	353	9985	0.94%	0.026%
215	16.855	16.732	16.865	VV	530	34266	3.22%	0.089%
216	16.901	16.865	16.917	VV	584	13490	1.27%	0.035%
217	16.956	16.917	16.994	VV	607	19554	1.84%	0.051%
218	17.102	16.994	17.155	VV	2004	79393	7.46%	0.206%
219	17.190	17.155	17.228	VV	959	31549	2.97%	0.082%
220	17.237	17.228	17.245	VV	699	6349	0.60%	0.017%
221	17.335	17.245	17.368	VV	1840	77694	7.30%	0.202%
222	17.416	17.368	17.440	VV	1692	53090	4.99%	0.138%
223	17.456	17.440	17.467	VV	1530	23194	2.18%	0.060%
224	17.508	17.467	17.529	VV	2581	70656	6.64%	0.184%
225	17.549	17.529	17.571	VV	2808	54352	5.11%	0.141%
226	17.583	17.571	17.599	VV	1748	27615	2.60%	0.072%
227	17.653	17.599	17.706	VV	2376	113020	10.63%	0.294%
228	17.757	17.706	17.785	VV	1745	77406	7.28%	0.201%
229	17.825	17.785	17.849	VV	2084	69069	6.49%	0.180%
230	17.879	17.849	17.899	VV	2264	61317	5.76%	0.159%
231	17.922	17.899	17.931	VV	2417	43773	4.12%	0.114%
232	17.984	17.931	18.011	VV	6855	180592	16.98%	0.469%
233	18.024	18.011	18.039	VV	2911	45894	4.31%	0.119%
234	18.122	18.039	18.139	VV	5367	215579	20.27%	0.560%
235	18.149	18.139	18.200	VV	4489	146665	13.79%	0.381%

Sum of corrected areas: 38472359

Aliphatic EPH 110724.M Wed Nov 20 05:01:08 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-2DL		SDG No.:	P4839	
Lab Sample ID:	P4839-15DL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84	
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
FF015072.D	2	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	9.29		0.71	1.58	mg/kg
Aromatic C12-C16	Aromatic C12-C16	26.1		0.81	2.38	mg/kg
Aromatic C16-C21	Aromatic C16-C21	18.2		2.28	3.96	mg/kg
Aromatic C21-C36	Aromatic C21-C36	8.25		4.75	6.34	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	24.4		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	20.6		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	12.5		40 - 140	50%	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:	P4839-15DL	Acq On:	15 Nov 2024 21:48
Client Sample ID:	EX-10-TPH-2DL	Operator:	YP\AJ
Data file:	FF015072.D	Misc:	
Instrument:	FID_F	ALS Vial:	77
Dilution Factor:	2	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	8024258	58.663	200	ug/ml
Aromatic C12-C16	6.372	9.062	22218324	164.553	300	ug/ml
Aromatic C16-C21	9.063	13.374	14671116	114.713	500	ug/ml
Aromatic C21-C36	13.375	18.817	6350441	52.107	800	ug/ml
Aromatic EPH	4.507	18.817	51264139	390.037		ug/ml
2-Bromonaphthalene (SURR)	7.989	7.989	2980883	24.41		ug/ml
2-Flurobiphenyl (SURR)	8.863	8.863	1684789	20.64		ug/ml
ortho-Terphenyl (SURR)	11.924	11.924	1673353	12.47		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015072.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:48
Operator : YP\AJ
Sample : P4839-15DL 2X
Misc :
ALS Vial : 77 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 00:27:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.989	2980883	24.410 ug/mlm
Spiked Amount 50.000		Recovery = 48.82%	
6) S 2-Flurobiphenyl (SURR)	8.863	1684789	20.636 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 41.27%	
11) S ortho-Terphenyl (SURR)	11.924	1673353	12.474 ug/mlm
Spiked Amount 50.000		Recovery = 24.95%	
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015072.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:48
Operator : YP\AJ
Sample : P4839-15DL 2X
Misc :
ALS Vial : 77 Sample Multiplier: 1

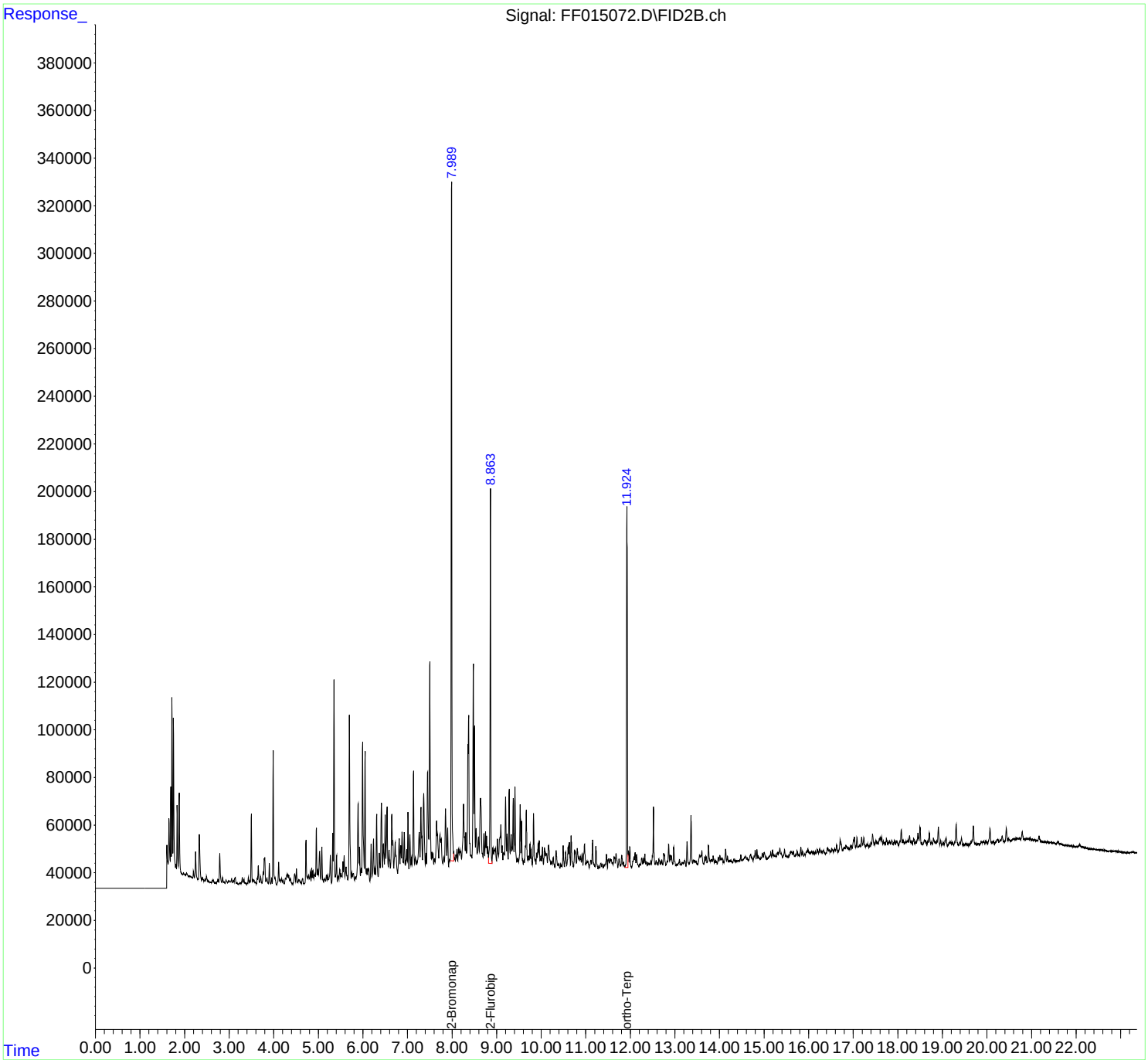
Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2DL

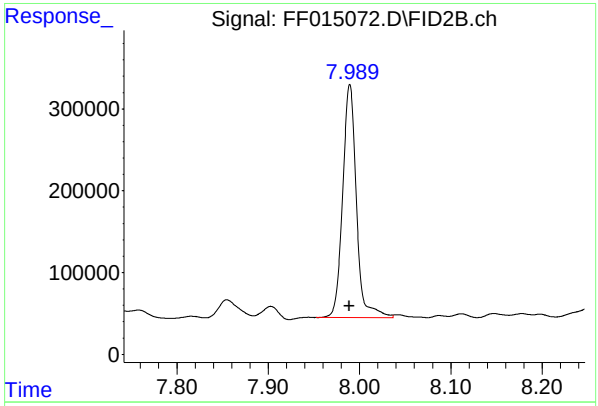
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 00:27:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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





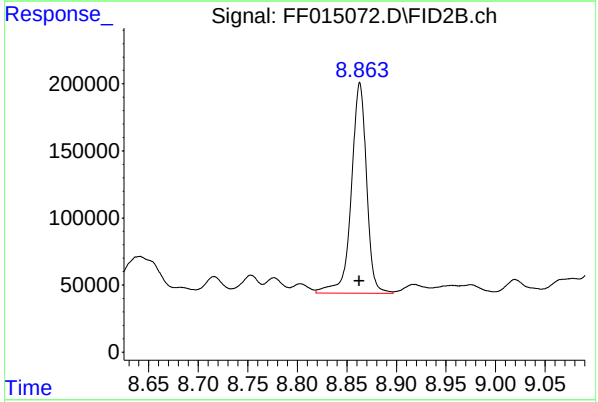
#4 2-Bromonaphthalene (SURR)

R.T.: 7.989 min
Delta R.T.: 0.000 mi
Response: 2980883
Conc: 24.41 ug/m

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2DL

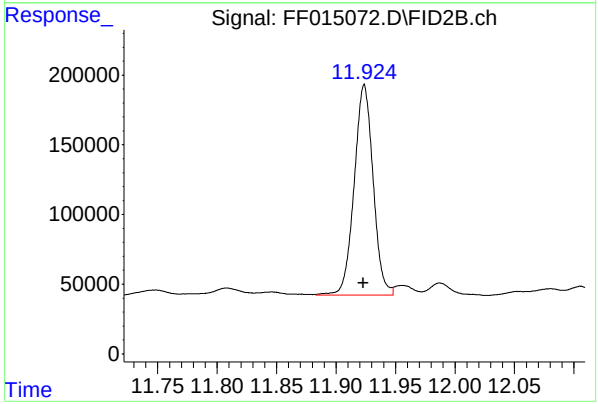
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.863 min
Delta R.T.: 0.000 min
Response: 1684789
Conc: 20.64 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.000 min
Response: 1673353
Conc: 12.47 ug/ml m

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2DL

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11162
Data File : FF015072.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:48
Sample : P4839-15DL 2X
Misc :
ALS Vial : 77 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.468	4.437	4.493	PV	4027	73625	2.22%	0.126%
2	4.510	4.493	4.538	VV	6280	76673	2.31%	0.132%
3	4.569	4.538	4.594	VV	1693	38263	1.15%	0.066%
4	4.605	4.594	4.619	VV	937	8949	0.27%	0.015%
5	4.649	4.619	4.684	VV	2300	38193	1.15%	0.066%
6	4.724	4.684	4.746	PV	18447	206729	6.23%	0.355%
7	4.755	4.746	4.769	VV	3030	37118	1.12%	0.064%
8	4.783	4.769	4.802	VV	3787	57889	1.75%	0.099%
9	4.823	4.802	4.838	VV	5161	69883	2.11%	0.120%
10	4.853	4.838	4.866	VV	6627	69745	2.10%	0.120%
11	4.879	4.866	4.898	VV	5621	75289	2.27%	0.129%
12	4.914	4.898	4.921	VV	3705	44054	1.33%	0.076%
13	4.930	4.921	4.939	VV	3981	37965	1.15%	0.065%
14	4.956	4.939	4.976	VV	23402	258079	7.78%	0.443%
15	4.990	4.976	5.005	VV	5891	82148	2.48%	0.141%
16	5.030	5.005	5.058	VV	13640	231367	6.98%	0.397%
17	5.080	5.058	5.119	VV	15248	193669	5.84%	0.332%
18	5.147	5.119	5.163	VV	1986	36275	1.09%	0.062%
19	5.183	5.163	5.199	VV	3565	47527	1.43%	0.082%
20	5.213	5.199	5.229	VV	3530	42579	1.28%	0.073%
21	5.271	5.229	5.299	VV	11786	170159	5.13%	0.292%
22	5.325	5.299	5.336	PV	21054	207971	6.27%	0.357%
23	5.353	5.336	5.381	VV	85239	882173	26.61%	1.514%
24	5.411	5.381	5.429	VV	11600	148658	4.48%	0.255%
25	5.446	5.429	5.463	VV	2918	43464	1.31%	0.075%
26	5.483	5.463	5.499	VV	5520	82929	2.50%	0.142%
27	5.508	5.499	5.534	VV	3862	62784	1.89%	0.108%
28	5.553	5.534	5.565	VV	8923	108403	3.27%	0.186%
29	5.580	5.565	5.598	VV	11400	140577	4.24%	0.241%
30	5.623	5.598	5.661	VV	6622	136691	4.12%	0.235%
31	5.698	5.661	5.737	VV	69978	866777	26.14%	1.487%
32	5.752	5.737	5.764	VV	4253	50779	1.53%	0.087%
33	5.789	5.764	5.812	VV	3755	78926	2.38%	0.135%
34	5.831	5.812	5.845	VV	2224	32092	0.97%	0.055%
35	5.892	5.845	5.915	VV	32811	499967	15.08%	0.858%
36	5.927	5.915	5.945	VV	14639	161570	4.87%	0.277%

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37	5.963	5.945	5.974	VV	5829	75201	2.27%	0.129%
38	5.994	5.974	6.032	VV	58701	816517	24	
39	6.050	6.032	6.079	VV	54697	578769	17	
40	6.092	6.079	6.104	VV	5452	61818	1	
41	6.116	6.104	6.126	VV	5482	59016	1	
42	6.135	6.126	6.157	VV	5265	54950	1	
43	6.186	6.157	6.204	VV	15644	176573	5.33%	0.303%
44	6.239	6.204	6.257	VV	17823	250486	7.55%	0.430%
45	6.269	6.257	6.285	VV	5423	68649	2.07%	0.118%
46	6.309	6.285	6.344	VV	27981	373852	11.28%	0.642%
47	6.369	6.344	6.390	VV	11775	182113	5.49%	0.312%
48	6.418	6.390	6.444	VV	32632	567695	17.12%	0.974%
49	6.460	6.444	6.485	VV	15659	269434	8.13%	0.462%
50	6.501	6.485	6.517	VV	27619	317585	9.58%	0.545%
51	6.543	6.517	6.572	VV	30959	522841	15.77%	0.897%
52	6.587	6.572	6.619	VV	12770	242586	7.32%	0.416%
53	6.649	6.619	6.667	VV	27729	460173	13.88%	0.790%
54	6.674	6.667	6.694	VV	16807	187821	5.66%	0.322%
55	6.726	6.694	6.739	VV	15883	289762	8.74%	0.497%
56	6.745	6.739	6.780	VV	10430	163144	4.92%	0.280%
57	6.816	6.780	6.833	VV	17274	314317	9.48%	0.539%
58	6.852	6.833	6.865	VV	14409	225354	6.80%	0.387%
59	6.880	6.865	6.902	VV	20121	289350	8.73%	0.497%
60	6.931	6.902	6.948	VV	19847	323397	9.75%	0.555%
61	6.958	6.948	6.966	VV	8208	80750	2.44%	0.139%
62	6.983	6.966	6.997	VV	12671	179530	5.41%	0.308%
63	7.014	6.997	7.033	VV	28296	335286	10.11%	0.575%
64	7.056	7.033	7.079	VV	18811	302564	9.13%	0.519%
65	7.092	7.079	7.104	VV	9391	112523	3.39%	0.193%
66	7.136	7.104	7.161	VV	45515	655358	19.77%	1.125%
67	7.178	7.161	7.195	VV	9263	167950	5.07%	0.288%
68	7.200	7.195	7.211	VV	7294	65288	1.97%	0.112%
69	7.265	7.211	7.284	VV	19592	514976	15.53%	0.884%
70	7.303	7.284	7.338	VV	30113	586370	17.68%	1.006%
71	7.367	7.338	7.402	VV	35839	746951	22.53%	1.282%
72	7.416	7.402	7.429	VV	10791	137667	4.15%	0.236%
73	7.451	7.429	7.480	VV	44776	763321	23.02%	1.310%
74	7.501	7.480	7.536	VV	91129	1260497	38.02%	2.163%
75	7.551	7.536	7.564	VV	11115	161102	4.86%	0.276%
76	7.575	7.564	7.591	VV	10403	136965	4.13%	0.235%
77	7.607	7.591	7.622	VV	8196	135468	4.09%	0.232%
78	7.654	7.622	7.666	VV	24131	400790	12.09%	0.688%
79	7.672	7.666	7.703	VV	18606	314290	9.48%	0.539%
80	7.731	7.703	7.746	VV	18282	380282	11.47%	0.653%
81	7.758	7.746	7.793	VV	16460	319281	9.63%	0.548%
82	7.816	7.793	7.831	VV	8849	168543	5.08%	0.289%
83	7.855	7.831	7.884	VV	29010	545668	16.46%	0.936%
84	7.903	7.884	7.923	VV	20802	314589	9.49%	0.540%
85	7.944	7.923	7.954	VV	7508	121792	3.67%	0.209%
86	7.989	7.954	8.035	VV	292156	3315649	100.00%	5.689%
87	8.042	8.035	8.075	VV	10447	206410	6.23%	0.354%
88	8.088	8.075	8.098	VV	9385	117097	3.53%	0.201%
89	8.112	8.098	8.129	VV	11619	177609	5.36%	0.305%

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90	8.147	8.129	8.164	VV	11820	206660	6.23%	0.355%
91	8.178	8.164	8.190	VV	11679	170444	5	
92	8.198	8.190	8.215	VV	11077	141483	4	
93	8.260	8.215	8.279	VV	30634	683064	20	
94	8.284	8.279	8.297	VV	16824	157525	4	
95	8.310	8.297	8.326	VV	18676	240900	7	
96	8.358	8.326	8.363	VV	55453	618733	18.66%	1.062%
97	8.373	8.363	8.418	VV	67747	967116	29.17%	1.660%
98	8.427	8.418	8.446	VV	8970	148854	4.49%	0.255%
99	8.478	8.446	8.493	VV	89169	1113225	33.57%	1.910%
100	8.505	8.493	8.526	VV	63188	719832	21.71%	1.235%
101	8.542	8.526	8.564	VV	20122	350352	10.57%	0.601%
102	8.593	8.564	8.612	VV	16401	359793	10.85%	0.617%
103	8.641	8.612	8.678	VV	32718	860859	25.96%	1.477%
104	8.683	8.678	8.697	VV	9646	104359	3.15%	0.179%
105	8.716	8.697	8.733	VV	17674	270445	8.16%	0.464%
106	8.753	8.733	8.765	VV	18677	263153	7.94%	0.452%
107	8.776	8.765	8.792	VV	16770	217022	6.55%	0.372%
108	8.803	8.792	8.818	VV	12204	160715	4.85%	0.276%
109	8.863	8.818	8.896	VV	162091	1925450	58.07%	3.304%
110	8.917	8.896	8.934	VV	11731	212600	6.41%	0.365%
111	8.957	8.934	8.964	VV	10834	179429	5.41%	0.308%
112	8.975	8.964	8.999	VV	11402	193981	5.85%	0.333%
113	9.020	8.999	9.047	VV	15202	295404	8.91%	0.507%
114	9.078	9.047	9.084	VV	15978	297640	8.98%	0.511%
115	9.097	9.084	9.115	VV	21240	306457	9.24%	0.526%
116	9.126	9.115	9.142	VV	12382	157870	4.76%	0.271%
117	9.157	9.142	9.180	VV	9360	194839	5.88%	0.334%
118	9.203	9.180	9.223	VV	32696	490123	14.78%	0.841%
119	9.238	9.223	9.260	VV	17217	269166	8.12%	0.462%
120	9.283	9.260	9.305	VV	35869	509482	15.37%	0.874%
121	9.328	9.305	9.342	VV	16936	273583	8.25%	0.469%
122	9.351	9.342	9.357	VV	11507	94807	2.86%	0.163%
123	9.374	9.357	9.391	VV	32019	402355	12.14%	0.690%
124	9.414	9.391	9.457	VV	36832	611994	18.46%	1.050%
125	9.472	9.457	9.495	VV	6677	138032	4.16%	0.237%
126	9.531	9.495	9.548	VV	29208	441870	13.33%	0.758%
127	9.562	9.548	9.580	VV	22382	268960	8.11%	0.462%
128	9.585	9.580	9.599	VV	5984	57369	1.73%	0.098%
129	9.613	9.599	9.624	VV	5695	78282	2.36%	0.134%
130	9.667	9.624	9.700	VV	26860	548209	16.53%	0.941%
131	9.714	9.700	9.731	VV	7504	122177	3.68%	0.210%
132	9.750	9.731	9.764	VV	12615	180069	5.43%	0.309%
133	9.776	9.764	9.800	VV	10276	151642	4.57%	0.260%
134	9.830	9.800	9.862	VV	25287	434171	13.09%	0.745%
135	9.869	9.862	9.885	VV	5941	69992	2.11%	0.120%
136	9.903	9.885	9.914	VV	8612	120151	3.62%	0.206%
137	9.931	9.914	9.943	VV	12389	169756	5.12%	0.291%
138	9.956	9.943	9.975	VV	13669	191449	5.77%	0.329%
139	9.995	9.975	10.014	VV	7217	140564	4.24%	0.241%
140	10.030	10.014	10.053	VV	10840	165436	4.99%	0.284%
141	10.074	10.053	10.097	VV	10716	208629	6.29%	0.358%

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142	10.108	10.097	10.115	VV	8212	85988	2.59%	0.148%
143	10.124	10.115	10.142	VV	8124	106692	3	
144	10.167	10.142	10.217	VV	11554	327185	9	
145	10.232	10.217	10.249	VV	4743	81850	2	
146	10.271	10.249	10.305	VV	6389	144989	4	
147	10.336	10.305	10.370	VV	9121	205952	6	
148	10.393	10.370	10.422	VV	3472	89528	2.70%	0.154%
149	10.439	10.422	10.452	VV	3661	51258	1.55%	0.088%
150	10.461	10.452	10.471	VV	2843	30034	0.91%	0.052%
151	10.495	10.471	10.520	VV	11189	170448	5.14%	0.292%
152	10.550	10.520	10.575	VV	8476	167745	5.06%	0.288%
153	10.604	10.575	10.616	VV	10405	166302	5.02%	0.285%
154	10.631	10.616	10.655	VV	12443	195693	5.90%	0.336%
155	10.674	10.655	10.722	VV	15147	258468	7.80%	0.444%
156	10.749	10.722	10.760	VV	9235	136146	4.11%	0.234%
157	10.765	10.760	10.789	VV	8434	110559	3.33%	0.190%
158	10.812	10.789	10.839	VV	9769	198535	5.99%	0.341%
159	10.851	10.839	10.869	VV	6283	96472	2.91%	0.166%
160	10.885	10.869	10.902	VV	6198	106839	3.22%	0.183%
161	10.920	10.902	10.938	VV	7396	108808	3.28%	0.187%
162	10.973	10.938	10.997	VV	11338	244029	7.36%	0.419%
163	11.033	10.997	11.044	VV	4109	98453	2.97%	0.169%
164	11.054	11.044	11.073	VV	3856	50047	1.51%	0.086%
165	11.115	11.073	11.132	VV	4491	105128	3.17%	0.180%
166	11.154	11.132	11.205	VV	12903	220085	6.64%	0.378%
167	11.228	11.205	11.275	VV	10163	166962	5.04%	0.286%
168	11.292	11.275	11.310	VV	1886	29103	0.88%	0.050%
169	11.336	11.310	11.354	VV	3006	53275	1.61%	0.091%
170	11.368	11.354	11.388	VV	2572	40111	1.21%	0.069%
171	11.416	11.388	11.420	VV	2198	32853	0.99%	0.056%
172	11.464	11.420	11.486	VV	6696	133603	4.03%	0.229%
173	11.510	11.486	11.530	VV	4652	89457	2.70%	0.154%
174	11.547	11.530	11.557	VV	4725	65373	1.97%	0.112%
175	11.570	11.557	11.593	VV	4275	78382	2.36%	0.134%
176	11.603	11.593	11.613	VV	3069	33485	1.01%	0.057%
177	11.634	11.613	11.662	VV	5335	122336	3.69%	0.210%
178	11.679	11.662	11.720	VV	6568	138409	4.17%	0.238%
179	11.748	11.720	11.769	VV	4413	82257	2.48%	0.141%
180	11.808	11.769	11.831	VV	5835	116871	3.52%	0.201%
181	11.846	11.831	11.880	VV	2984	57484	1.73%	0.099%
182	11.924	11.880	11.947	VV	151759	1698426	51.22%	2.914%
183	11.956	11.947	11.972	VV	7512	88484	2.67%	0.152%
184	11.987	11.972	12.027	VV	9287	124921	3.77%	0.214%
185	12.053	12.027	12.059	VV	3112	35074	1.06%	0.060%
186	12.080	12.059	12.091	VV	5062	80526	2.43%	0.138%
187	12.106	12.091	12.122	VV	6837	89211	2.69%	0.153%
188	12.138	12.122	12.190	VV	5899	112555	3.39%	0.193%
189	12.211	12.190	12.224	VV	1991	29110	0.88%	0.050%
190	12.255	12.224	12.276	VV	4075	86202	2.60%	0.148%
191	12.295	12.276	12.308	VV	4193	58302	1.76%	0.100%
192	12.325	12.308	12.345	VV	5920	84259	2.54%	0.145%
193	12.360	12.345	12.377	VV	2888	40417	1.22%	0.069%
194	12.398	12.377	12.409	VV	2040	29868	0.90%	0.051%

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195	12.424	12.409	12.441	VV	2005	34075	1.03%	0.058%
196	12.458	12.441	12.474	VV	3161	44510	1	
197	12.493	12.474	12.499	VV	4953	55580	1	
198	12.518	12.499	12.552	VV	25625	322384	9	
199	12.578	12.552	12.593	VV	3087	54397	1	
200	12.604	12.593	12.621	VV	2370	28874	0	
201	12.639	12.621	12.672	VV	3603	73255	2.21%	0.126%
202	12.703	12.672	12.728	VV	3220	68469	2.07%	0.117%
203	12.749	12.728	12.758	VV	5862	69140	2.09%	0.119%
204	12.767	12.758	12.792	VV	5287	71597	2.16%	0.123%
205	12.824	12.792	12.835	VV	2544	45082	1.36%	0.077%
206	12.858	12.835	12.878	VV	9598	141330	4.26%	0.243%
207	12.893	12.878	12.907	VV	4998	68876	2.08%	0.118%
208	12.919	12.907	12.952	VV	4768	80815	2.44%	0.139%
209	12.972	12.952	13.019	VV	8363	134790	4.07%	0.231%
210	13.037	13.019	13.055	VV	1005	17002	0.51%	0.029%
211	13.100	13.055	13.120	VV	2959	61092	1.84%	0.105%
212	13.136	13.120	13.146	VV	1084	13964	0.42%	0.024%
213	13.163	13.146	13.177	VV	1752	24136	0.73%	0.041%
214	13.191	13.177	13.200	VV	1595	20500	0.62%	0.035%
215	13.220	13.200	13.247	VV	2433	44685	1.35%	0.077%
216	13.270	13.247	13.315	PV	10369	143144	4.32%	0.246%
217	13.360	13.315	13.393	VV	21237	302222	9.12%	0.519%
218	13.409	13.393	13.427	VV	2421	40254	1.21%	0.069%
219	13.445	13.427	13.468	VV	2219	44694	1.35%	0.077%
220	13.478	13.468	13.510	VV	1851	26787	0.81%	0.046%
221	13.549	13.510	13.570	VV	4025	93906	2.83%	0.161%
222	13.579	13.570	13.589	VV	4168	42999	1.30%	0.074%
223	13.603	13.589	13.635	VV	6204	92036	2.78%	0.158%
224	13.639	13.635	13.650	VV	721	5882	0.18%	0.010%
225	13.669	13.650	13.682	VV	3407	41637	1.26%	0.071%
226	13.697	13.682	13.719	VV	3605	56212	1.70%	0.096%
227	13.751	13.719	13.791	VV	8221	143901	4.34%	0.247%
228	13.795	13.791	13.802	VV	1649	9847	0.30%	0.017%
229	13.818	13.802	13.834	VV	2188	34794	1.05%	0.060%
230	13.857	13.834	13.882	VV	3477	58965	1.78%	0.101%
231	13.905	13.882	13.922	VV	1789	27879	0.84%	0.048%
232	13.933	13.922	13.947	VV	1149	11356	0.34%	0.019%
233	13.971	13.947	13.989	PV	2802	43454	1.31%	0.075%
234	14.008	13.989	14.027	VV	3689	56367	1.70%	0.097%
235	14.053	14.027	14.082	VV	2472	59865	1.81%	0.103%
236	14.087	14.082	14.100	VV	832	7456	0.22%	0.013%
237	14.136	14.100	14.160	VV	6075	101143	3.05%	0.174%
238	14.178	14.160	14.197	VV	3078	39940	1.20%	0.069%
239	14.218	14.197	14.237	VV	1391	24580	0.74%	0.042%
240	14.245	14.237	14.260	VV	1113	11745	0.35%	0.020%
241	14.269	14.260	14.297	VV	943	11735	0.35%	0.020%
242	14.318	14.297	14.358	PV	1618	33668	1.02%	0.058%
243	14.372	14.358	14.385	VV	918	11645	0.35%	0.020%
244	14.394	14.385	14.399	VV	767	5243	0.16%	0.009%
245	14.409	14.399	14.414	VV	779	6862	0.21%	0.012%
246	14.424	14.414	14.435	VV	987	9445	0.28%	0.016%

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247	14.450	14.435	14.457	VV	839	8694	0.26%	0.015%
248	14.478	14.457	14.496	VV	3107	41208	1	
249	14.511	14.496	14.517	VV	837	9299	0	
250	14.589	14.517	14.617	VV	2342	94748	2	
251	14.626	14.617	14.649	VV	1315	18405	0	
252	14.695	14.649	14.750	VV	3095	98515	2	
253	14.776	14.750	14.782	VV	2062	23538	0.71%	0.040%
254	14.800	14.782	14.820	VV	4469	64287	1.94%	0.110%
255	14.839	14.820	14.857	VV	4727	59434	1.79%	0.102%
256	14.867	14.857	14.910	VV	1812	38486	1.16%	0.066%
257	14.960	14.910	14.984	VV	2991	71670	2.16%	0.123%
258	15.002	14.984	15.048	VV	3325	74147	2.24%	0.127%
259	15.056	15.048	15.072	VV	678	6934	0.21%	0.012%
260	15.124	15.072	15.132	VV	1709	36748	1.11%	0.063%
261	15.148	15.132	15.165	VV	3166	42443	1.28%	0.073%
262	15.188	15.165	15.205	VV	3784	56365	1.70%	0.097%
263	15.213	15.205	15.228	VV	1697	20651	0.62%	0.035%
264	15.242	15.228	15.269	VV	1513	30562	0.92%	0.052%
265	15.305	15.269	15.318	VV	2838	57571	1.74%	0.099%
266	15.353	15.318	15.376	VV	4336	100457	3.03%	0.172%
267	15.383	15.376	15.414	VV	2161	31928	0.96%	0.055%
268	15.458	15.414	15.482	VV	3660	68115	2.05%	0.117%
269	15.488	15.482	15.494	VV	880	5512	0.17%	0.009%
270	15.502	15.494	15.517	VV	921	9184	0.28%	0.016%
271	15.524	15.517	15.543	VV	667	7717	0.23%	0.013%
272	15.594	15.543	15.605	VV	2655	54061	1.63%	0.093%
273	15.614	15.605	15.633	VV	2569	34611	1.04%	0.059%
274	15.659	15.633	15.692	VV	2016	44743	1.35%	0.077%
275	15.739	15.692	15.765	VV	2309	51530	1.55%	0.088%
276	15.778	15.765	15.797	VV	1109	15065	0.45%	0.026%
277	15.823	15.797	15.844	VV	4023	56646	1.71%	0.097%
278	15.863	15.844	15.890	VV	2245	32578	0.98%	0.056%
279	15.907	15.890	15.922	VV	1118	12540	0.38%	0.022%
280	15.944	15.922	15.949	VV	1736	19171	0.58%	0.033%
281	15.986	15.949	16.024	VV	2623	82607	2.49%	0.142%
282	16.066	16.024	16.084	VV	1567	47642	1.44%	0.082%
283	16.104	16.084	16.134	VV	1475	35626	1.07%	0.061%
284	16.153	16.134	16.171	VV	1557	23222	0.70%	0.040%
285	16.191	16.171	16.219	VV	2355	45760	1.38%	0.079%
286	16.239	16.219	16.245	VV	2190	23750	0.72%	0.041%
287	16.251	16.245	16.282	VV	2235	35616	1.07%	0.061%
288	16.294	16.282	16.308	VV	1429	17550	0.53%	0.030%
289	16.328	16.308	16.377	VV	1915	42456	1.28%	0.073%
290	16.427	16.377	16.447	VV	2767	59266	1.79%	0.102%
291	16.462	16.447	16.477	VV	1681	23939	0.72%	0.041%
292	16.493	16.477	16.501	VV	1212	16267	0.49%	0.028%
293	16.522	16.501	16.553	VV	1967	45799	1.38%	0.079%
294	16.586	16.553	16.600	VV	1908	41062	1.24%	0.070%
295	16.626	16.600	16.656	VV	3632	64418	1.94%	0.111%
296	16.706	16.656	16.723	VV	5671	106496	3.21%	0.183%
297	16.727	16.723	16.753	VV	3824	48041	1.45%	0.082%
298	16.758	16.753	16.761	VV	1065	4779	0.14%	0.008%
299	16.804	16.761	16.821	VV	2379	61044	1.84%	0.105%

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-2DL

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

rteres

300	16.839	16.821	16.880	VV	3007	78059	2.35%	0.134%
301	16.895	16.880	16.902	VV	1924	21883		
302	16.908	16.902	16.915	VV	1778	12767		
303	16.949	16.915	16.973	VV	2897	69939		
304	17.025	16.973	17.048	VV	6192	171678		
305	17.083	17.048	17.121	VV	5989	130242		
306	17.146	17.121	17.164	VV	2402	53983	1.63%	0.093%
307	17.188	17.164	17.214	VV	5844	109612	3.31%	0.188%
308	17.238	17.214	17.275	VV	5506	122067	3.68%	0.209%
309	17.321	17.275	17.353	VV	2751	98521	2.97%	0.169%
310	17.362	17.353	17.369	VV	1804	14963	0.45%	0.026%
311	17.392	17.369	17.399	VV	2816	39890	1.20%	0.068%
312	17.402	17.399	17.410	VV	2670	18282	0.55%	0.031%
313	17.433	17.410	17.480	VV	6709	160988	4.86%	0.276%
314	17.510	17.480	17.533	VV	3744	92676	2.80%	0.159%
315	17.541	17.533	17.562	VV	2878	44813	1.35%	0.077%
316	17.588	17.562	17.597	VV	4420	77245	2.33%	0.133%
317	17.611	17.597	17.625	VV	5118	75320	2.27%	0.129%
318	17.641	17.625	17.664	VV	4997	85683	2.58%	0.147%
319	17.672	17.664	17.689	VV	3015	37852	1.14%	0.065%
320	17.700	17.689	17.718	VV	2531	41517	1.25%	0.071%
321	17.742	17.718	17.775	VV	3842	95167	2.87%	0.163%
322	17.813	17.775	17.836	VV	3202	90854	2.74%	0.156%
323	17.866	17.836	17.895	VV	3231	80102	2.42%	0.137%
324	17.926	17.895	17.946	VV	2701	64656	1.95%	0.111%
325	17.953	17.946	17.957	VV	2141	12250	0.37%	0.021%
326	17.979	17.957	18.024	VV	2838	77001	2.32%	0.132%
327	18.045	18.024	18.052	VV	2668	35159	1.06%	0.060%
328	18.076	18.052	18.102	VV	7427	132186	3.99%	0.227%
329	18.121	18.102	18.141	VV	2869	55234	1.67%	0.095%
330	18.149	18.141	18.159	VV	1855	17801	0.54%	0.031%
331	18.179	18.159	18.191	VV	2147	38340	1.16%	0.066%
332	18.199	18.191	18.202	VV	1988	11790	0.36%	0.020%
333	18.217	18.202	18.222	VV	2391	27982	0.84%	0.048%
334	18.230	18.222	18.237	VV	2508	20506	0.62%	0.035%
335	18.262	18.237	18.288	VV	4564	89866	2.71%	0.154%
336	18.293	18.288	18.298	VV	1985	11266	0.34%	0.019%
337	18.305	18.298	18.328	VV	1953	27269	0.82%	0.047%
338	18.357	18.328	18.385	VV	3123	69784	2.10%	0.120%
339	18.401	18.385	18.412	VV	1849	23265	0.70%	0.040%
340	18.450	18.412	18.476	VV	5373	117500	3.54%	0.202%
341	18.497	18.476	18.524	VV	7591	123912	3.74%	0.213%
342	18.539	18.524	18.557	VV	1128	13805	0.42%	0.024%
343	18.598	18.557	18.649	VV	2179	68823	2.08%	0.118%
344	18.671	18.649	18.687	VV	1603	23319	0.70%	0.040%
345	18.707	18.687	18.732	VV	5005	72754	2.19%	0.125%
346	18.750	18.732	18.777	VV	894	14670	0.44%	0.025%

Sum of corrected areas: 58277295

Aromatic EPH 111524.M Mon Nov 18 01:04:45 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-3			SDG No.:	P4839
Lab Sample ID:	P4839-16			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	77.6
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 18:49	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.71	J	1	0.49	1.28	mg/kg	FE051270.D
Aliphatic C12-C16	Aliphatic C12-C16	2.16		1	0.31	0.86	mg/kg	FE051270.D
Aliphatic C16-C21	Aliphatic C16-C21	1.15	J	1	0.39	1.28	mg/kg	FE051270.D
Aliphatic C21-C28	Aliphatic C21-C28	1.03	U	1	1.03	1.71	mg/kg	FE051270.D
Aliphatic C28-C40	Aliphatic C28-C40	5.94		1	2.31	2.57	mg/kg	FE051270.D
Aromatic C10-C12	Aromatic C10-C12	0.39	U	1	0.39	0.86	mg/kg	FF015062.D
Aromatic C12-C16	Aromatic C12-C16	3.25		1	0.44	1.28	mg/kg	FF015062.D
Aromatic C16-C21	Aromatic C16-C21	2.53		1	1.23	2.14	mg/kg	FF015062.D
Aromatic C21-C36	Aromatic C21-C36	2.57	U	1	2.57	3.43	mg/kg	FF015062.D
Total AliphaticEPH	Total AliphaticEPH	9.96			4.52	7.70	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.78	J		4.62	7.71	mg/kg	
Total EPH	Total EPH	15.7			9.14	15.4	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-10-TPH-3			SDG No.:	P4839
Lab Sample ID:	P4839-16			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	77.6
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 18:49	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.71	J	1	0.49	1.28	mg/kg	FE051270.D
Aliphatic C12-C16	Aliphatic C12-C16	2.16		1	0.31	0.86	mg/kg	FE051270.D
Aliphatic C16-C21	Aliphatic C16-C21	1.15	J	1	0.39	1.28	mg/kg	FE051270.D
Aliphatic C21-C28	Aliphatic C21-C28	1.03	U	1	1.03	1.71	mg/kg	FE051270.D
Aliphatic C28-C40	Aliphatic C28-C40	5.94		1	2.31	2.57	mg/kg	FE051270.D
Aromatic C10-C12	Aromatic C10-C12	0.39	U	1	0.39	0.86	mg/kg	FF015062.D
Aromatic C12-C16	Aromatic C12-C16	3.25		1	0.44	1.28	mg/kg	FF015062.D
Aromatic C16-C21	Aromatic C16-C21	2.53		1	1.23	2.14	mg/kg	FF015062.D
Aromatic C21-C36	Aromatic C21-C36	2.57	U	1	2.57	3.43	mg/kg	FF015062.D
Total AliphaticEPH	Total AliphaticEPH	9.96			4.52	7.70	mg/kg	
Total AromaticEPH	Total AromaticEPH	5.78	J		4.62	7.71	mg/kg	
Total EPH	Total EPH	15.7			9.14	15.4	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-3		SDG No.:	P4839	
Lab Sample ID:	P4839-16		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	77.6	
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
FE051270.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.71	J	0.49	1.28	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		2.16		0.31	0.86	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		1.15	J	0.39	1.28	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.03	U	1.03	1.71	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		5.94		2.31	2.57	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		32.4		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-16	Acq On:	15 Nov 2024 18:49
Client Sample ID:	EX-10-TPH-3	Operator:	YP\AJ
Data file:	FE051270.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	1161677	8.303	300	ug/ml
Aliphatic C12-C16	6.754	10.185	3552711	25.262	200	ug/ml
Aliphatic C16-C21	10.186	13.544	1851111	13.436	300	ug/ml
Aliphatic C21-C28	13.545	17.200	924808	6.904	400	ug/ml
Aliphatic C28-C40	17.201	22.043	8934876	69.398	600	ug/ml
Aliphatic EPH	3.134	22.043	16425183	123.303		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.278	13.278	3673742	32.36		ug/ml
Aliphatic C9-C28	3.134	17.200	7490307	53.905	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051270.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 18:49
Operator : YP\AJ
Sample : P4839-16
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-3

Integration File: autoint1.e
Quant Time: Nov 16 08:20:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.278	3673742	32.359 ug/ml
Spiked Amount 50.000		Recovery = 64.72%	
Target Compounds			

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

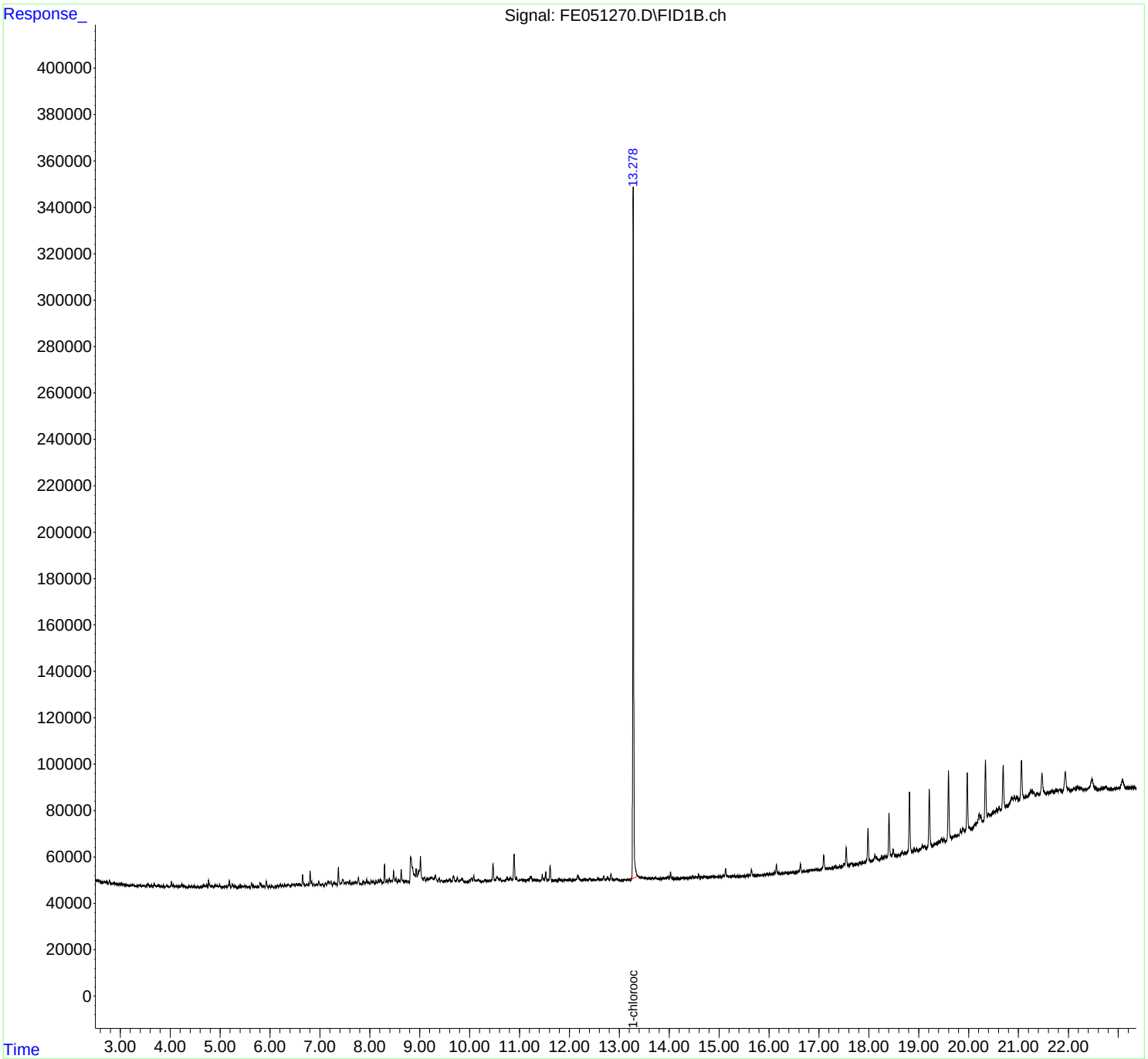
Quantitation Report (QT Reviewed)

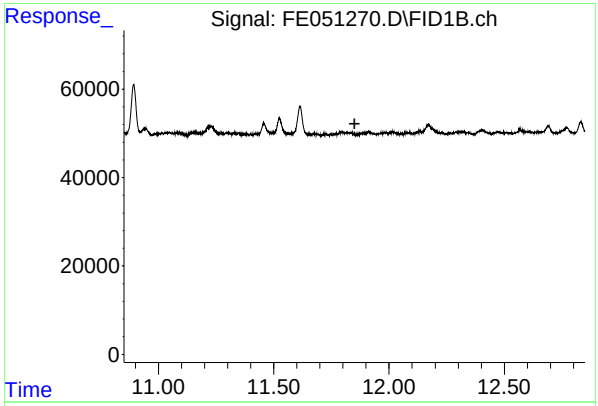
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051270.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 18:49
Operator : YP\AJ
Sample : P4839-16
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-3

Integration File: autoint1.e
Quant Time: Nov 16 08:20:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

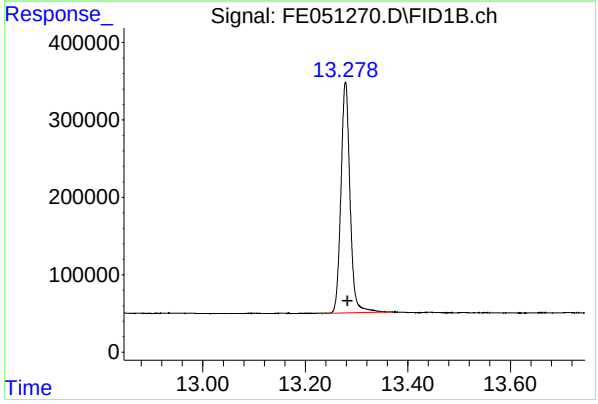




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-10-TPH-3



#12 1-chlorooctadecane (SURR)

R.T.: 13.278 min
Delta R.T.: -0.005 min
Response: 3673742
Conc: 32.36 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051270.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 18:49
Sample : P4839-16
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.251	3.214	3.322	BV	378	2803	0.07%	0.014%
2	3.331	3.322	3.341	PV	35	211	0.01%	0.001%
3	3.377	3.341	3.393	VV	391	5684	0.15%	0.028%
4	3.407	3.393	3.427	VV	321	3798	0.10%	0.019%
5	3.446	3.427	3.461	VV	469	5709	0.15%	0.028%
6	3.476	3.461	3.504	VV	404	5944	0.16%	0.029%
7	3.516	3.504	3.528	VV	169	1753	0.05%	0.009%
8	3.548	3.528	3.591	VV	855	15866	0.42%	0.078%
9	3.624	3.591	3.661	VV	616	11556	0.30%	0.057%
10	3.680	3.661	3.721	VV	1524	21648	0.57%	0.107%
11	3.761	3.721	3.794	VV	757	17275	0.45%	0.085%
12	3.812	3.794	3.843	VV	287	5170	0.14%	0.026%
13	3.865	3.843	3.894	VV	687	7997	0.21%	0.040%
14	3.928	3.894	3.980	VV	704	16085	0.42%	0.080%
15	4.026	4.001	4.045	BV	2082	20732	0.55%	0.103%
16	4.060	4.045	4.078	VV	788	8101	0.21%	0.040%
17	4.094	4.078	4.112	VV	270	3433	0.09%	0.017%
18	4.135	4.112	4.156	VV	562	6824	0.18%	0.034%
19	4.174	4.156	4.186	PV	367	3372	0.09%	0.017%
20	4.197	4.186	4.207	VV	266	2514	0.07%	0.012%
21	4.228	4.207	4.244	VV	1096	13568	0.36%	0.067%
22	4.255	4.244	4.274	VV	698	8946	0.24%	0.044%
23	4.284	4.274	4.343	VV	418	9386	0.25%	0.046%
24	4.377	4.343	4.403	PV	732	11560	0.30%	0.057%
25	4.427	4.403	4.452	VV	639	12225	0.32%	0.060%
26	4.488	4.452	4.531	VV	615	14761	0.39%	0.073%
27	4.552	4.531	4.594	VV	349	5843	0.15%	0.029%
28	4.612	4.594	4.633	VV	309	3783	0.10%	0.019%
29	4.672	4.633	4.720	VV	1204	33642	0.89%	0.166%
30	4.735	4.720	4.750	VV	1019	11920	0.31%	0.059%
31	4.769	4.750	4.813	VV	3297	50819	1.34%	0.251%
32	4.827	4.813	4.868	VV	732	19032	0.50%	0.094%
33	4.903	4.868	4.934	VV	1272	31137	0.82%	0.154%
34	4.947	4.934	4.971	VV	994	14297	0.38%	0.071%
35	4.993	4.971	5.032	VV	1366	22611	0.60%	0.112%
36	5.063	5.032	5.079	VV	370	7306	0.19%	0.036%

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37	5.097	5.079	5.112	VV	880	10188	0.27%	0.050%
38	5.124	5.112	5.139	VV	557	6594	0.17%	0.033%
39	5.185	5.139	5.216	VV	3117	57292	1.51%	0.283%
40	5.245	5.216	5.274	VV	1404	28903	0.76%	0.143%
41	5.284	5.274	5.293	VV	785	7850	0.21%	0.039%
42	5.303	5.293	5.336	VV	873	13107	0.35%	0.065%
43	5.368	5.336	5.381	VV	509	7139	0.19%	0.035%
44	5.400	5.381	5.414	VV	985	13674	0.36%	0.068%
45	5.425	5.414	5.450	VV	695	12541	0.33%	0.062%
46	5.462	5.450	5.478	VV	677	9826	0.26%	0.049%
47	5.494	5.478	5.510	VV	843	13247	0.35%	0.066%
48	5.524	5.510	5.572	VV	698	18046	0.48%	0.089%
49	5.585	5.572	5.604	VV	481	5550	0.15%	0.027%
50	5.631	5.604	5.650	PV	2231	28335	0.75%	0.140%
51	5.665	5.650	5.685	VV	1368	16756	0.44%	0.083%
52	5.697	5.685	5.734	VV	528	12207	0.32%	0.060%
53	5.747	5.734	5.761	VV	498	6826	0.18%	0.034%
54	5.800	5.761	5.842	VV	2102	49556	1.30%	0.245%
55	5.852	5.842	5.869	VV	627	9026	0.24%	0.045%
56	5.884	5.869	5.902	VV	989	11780	0.31%	0.058%
57	5.927	5.902	5.967	VV	2783	47506	1.25%	0.235%
58	5.988	5.967	6.018	VV	1068	18054	0.48%	0.089%
59	6.050	6.018	6.078	VV	743	17192	0.45%	0.085%
60	6.101	6.078	6.116	PV	969	11224	0.30%	0.055%
61	6.124	6.116	6.134	VV	423	4179	0.11%	0.021%
62	6.150	6.134	6.171	VV	1257	17156	0.45%	0.085%
63	6.205	6.171	6.228	VV	1287	24805	0.65%	0.123%
64	6.252	6.228	6.269	VV	1077	17470	0.46%	0.086%
65	6.296	6.269	6.319	VV	1114	20547	0.54%	0.102%
66	6.337	6.319	6.348	VV	915	11978	0.32%	0.059%
67	6.362	6.348	6.398	VV	1044	22832	0.60%	0.113%
68	6.441	6.398	6.462	VV	1054	24584	0.65%	0.122%
69	6.478	6.462	6.504	VV	902	16399	0.43%	0.081%
70	6.523	6.504	6.548	VV	1280	21833	0.57%	0.108%
71	6.571	6.548	6.588	VV	844	17081	0.45%	0.084%
72	6.601	6.588	6.632	VV	780	14236	0.37%	0.070%
73	6.654	6.632	6.701	VBA	4900	66445	1.75%	0.329%
74	6.738	6.701	6.761	BV	741	12402	0.33%	0.061%
75	6.775	6.761	6.785	VV	878	7562	0.20%	0.037%
76	6.805	6.785	6.826	VV	6425	76204	2.01%	0.377%
77	6.837	6.826	6.861	VV	1894	22495	0.59%	0.111%
78	6.878	6.861	6.896	VV	1116	12341	0.32%	0.061%
79	6.910	6.896	6.920	VV	441	4380	0.12%	0.022%
80	6.938	6.920	6.954	VV	740	10275	0.27%	0.051%
81	6.978	6.954	7.003	VV	2052	29401	0.77%	0.145%
82	7.015	7.003	7.029	VV	670	6657	0.18%	0.033%
83	7.045	7.029	7.087	VV	838	12282	0.32%	0.061%
84	7.110	7.087	7.134	PV	1105	17292	0.46%	0.086%
85	7.163	7.134	7.172	VV	1550	25923	0.68%	0.128%
86	7.182	7.172	7.200	VV	1855	22856	0.60%	0.113%
87	7.224	7.200	7.252	VV	1942	32151	0.85%	0.159%
88	7.284	7.252	7.321	VV	1426	34689	0.91%	0.172%
89	7.328	7.321	7.346	VV	649	6491	0.17%	0.032%

90	7.371	7.346	7.406	VV	7825	99377	2.62%	0.491%
91	7.453	7.406	7.488	VV	2619	67715	1.78%	0.335%
92	7.515	7.488	7.527	VV	993	20602	0.54%	0.102%
93	7.557	7.527	7.571	VV	1524	30626	0.81%	0.151%
94	7.600	7.571	7.624	VV	2091	36987	0.97%	0.183%
95	7.653	7.624	7.670	VV	959	21138	0.56%	0.105%
96	7.688	7.670	7.705	VV	1311	21816	0.57%	0.108%
97	7.722	7.705	7.745	VV	1308	24978	0.66%	0.124%
98	7.772	7.745	7.801	VV	3295	52869	1.39%	0.261%
99	7.815	7.801	7.838	VV	722	9876	0.26%	0.049%
100	7.861	7.838	7.871	VV	1478	17175	0.45%	0.085%
101	7.882	7.871	7.899	VV	1520	17801	0.47%	0.088%
102	7.937	7.899	7.954	VV	2323	39977	1.05%	0.198%
103	7.969	7.954	8.008	VV	1433	29063	0.77%	0.144%
104	8.027	8.008	8.045	VV	1940	27849	0.73%	0.138%
105	8.061	8.045	8.070	VV	1455	17984	0.47%	0.089%
106	8.079	8.070	8.099	VV	1494	18906	0.50%	0.093%
107	8.127	8.099	8.145	VV	1606	27735	0.73%	0.137%
108	8.172	8.145	8.190	VV	2217	37293	0.98%	0.184%
109	8.206	8.190	8.218	VV	2249	29003	0.76%	0.143%
110	8.227	8.218	8.250	VV	2022	25805	0.68%	0.128%
111	8.296	8.250	8.321	VV	8577	115851	3.05%	0.573%
112	8.345	8.321	8.367	VV	2203	42138	1.11%	0.208%
113	8.387	8.367	8.408	VV	2487	42099	1.11%	0.208%
114	8.420	8.408	8.435	VV	1558	23875	0.63%	0.118%
115	8.478	8.435	8.511	VV	5776	114843	3.02%	0.568%
116	8.525	8.511	8.548	VV	2712	39900	1.05%	0.197%
117	8.572	8.548	8.586	VV	1699	31556	0.83%	0.156%
118	8.594	8.586	8.607	VV	1500	18623	0.49%	0.092%
119	8.631	8.607	8.695	VV	6357	120148	3.16%	0.594%
120	8.721	8.695	8.748	VV	1529	39303	1.03%	0.194%
121	8.762	8.748	8.793	VV	1158	26744	0.70%	0.132%
122	8.820	8.793	8.910	VV	11610	437949	11.53%	2.165%
123	8.929	8.910	8.950	VV	6657	111054	2.92%	0.549%
124	8.971	8.950	8.980	VV	5211	80747	2.13%	0.399%
125	9.017	8.980	9.073	VV	11849	284000	7.48%	1.404%
126	9.092	9.073	9.116	VV	2931	56245	1.48%	0.278%
127	9.162	9.116	9.180	VV	2650	75071	1.98%	0.371%
128	9.238	9.180	9.281	VV	2955	138257	3.64%	0.684%
129	9.315	9.281	9.361	VV	3618	108869	2.87%	0.538%
130	9.388	9.361	9.414	VV	2466	51805	1.36%	0.256%
131	9.437	9.414	9.471	VV	1470	36295	0.96%	0.179%
132	9.508	9.471	9.528	VV	1306	34117	0.90%	0.169%
133	9.540	9.528	9.570	VV	1498	28881	0.76%	0.143%
134	9.605	9.570	9.627	VV	1966	47773	1.26%	0.236%
135	9.675	9.627	9.714	VV	3101	90170	2.37%	0.446%
136	9.756	9.714	9.784	VV	2698	62606	1.65%	0.310%
137	9.839	9.784	9.851	VV	2046	53429	1.41%	0.264%
138	9.860	9.851	9.899	VV	1928	32346	0.85%	0.160%
139	9.920	9.899	9.941	VV	662	14701	0.39%	0.073%
140	9.956	9.941	9.973	VV	516	9070	0.24%	0.045%
141	10.006	9.973	10.017	VV	1497	26198	0.69%	0.130%

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142	10.039	10.017	10.065	VV	2237	45376	1.19%	0.224%
143	10.085	10.065	10.128	VV	3241	61639	1.62%	0.305%
144	10.161	10.128	10.172	VV	1249	28945	0.76%	0.143%
145	10.184	10.172	10.220	VV	1252	26514	0.70%	0.131%
146	10.256	10.220	10.272	VV	653	18286	0.48%	0.090%
147	10.311	10.272	10.340	VV	1147	35599	0.94%	0.176%
148	10.360	10.340	10.391	VV	993	23017	0.61%	0.114%
149	10.402	10.391	10.410	VV	854	8980	0.24%	0.044%
150	10.428	10.410	10.438	VV	1086	15913	0.42%	0.079%
151	10.471	10.438	10.498	VV	8156	130813	3.44%	0.647%
152	10.555	10.498	10.595	VV	2384	91252	2.40%	0.451%
153	10.616	10.595	10.643	VV	1909	36150	0.95%	0.179%
154	10.655	10.643	10.670	VV	766	11470	0.30%	0.057%
155	10.751	10.670	10.784	VV	1981	76761	2.02%	0.380%
156	10.822	10.784	10.859	VV	1982	61714	1.62%	0.305%
157	10.893	10.859	10.921	VV	11997	190740	5.02%	0.943%
158	10.944	10.921	10.974	VV	2062	44109	1.16%	0.218%
159	11.045	10.974	11.065	VV	1061	46772	1.23%	0.231%
160	11.085	11.065	11.118	VV	973	25763	0.68%	0.127%
161	11.158	11.118	11.178	VV	1071	29518	0.78%	0.146%
162	11.228	11.178	11.261	VV	2413	75129	1.98%	0.371%
163	11.275	11.261	11.283	VV	877	10112	0.27%	0.050%
164	11.299	11.283	11.317	VV	938	16273	0.43%	0.080%
165	11.327	11.317	11.364	VV	873	20008	0.53%	0.099%
166	11.381	11.364	11.392	VV	620	9237	0.24%	0.046%
167	11.399	11.392	11.411	VV	586	5726	0.15%	0.028%
168	11.457	11.411	11.489	VV	3029	59516	1.57%	0.294%
169	11.525	11.489	11.570	VV	4152	79706	2.10%	0.394%
170	11.614	11.570	11.660	VV	6850	117502	3.09%	0.581%
171	11.677	11.660	11.704	VV	630	11195	0.29%	0.055%
172	11.721	11.704	11.741	VV	497	7552	0.20%	0.037%
173	11.796	11.741	11.811	VV	832	24323	0.64%	0.120%
174	11.818	11.811	11.858	VV	803	17064	0.45%	0.084%
175	11.889	11.858	11.897	VV	593	10989	0.29%	0.054%
176	11.913	11.897	11.944	VV	826	16187	0.43%	0.080%
177	11.983	11.944	11.998	VV	750	16995	0.45%	0.084%
178	12.017	11.998	12.060	VV	776	20891	0.55%	0.103%
179	12.077	12.060	12.108	VV	666	14776	0.39%	0.073%
180	12.134	12.108	12.143	VV	969	15012	0.40%	0.074%
181	12.170	12.143	12.247	VV	2369	69668	1.83%	0.344%
182	12.264	12.247	12.278	VV	462	7368	0.19%	0.036%
183	12.322	12.278	12.366	VV	753	30184	0.79%	0.149%
184	12.404	12.366	12.444	VV	1142	30186	0.79%	0.149%
185	12.471	12.444	12.538	VV	732	25756	0.68%	0.127%
186	12.569	12.538	12.630	VV	1046	35416	0.93%	0.175%
187	12.690	12.630	12.728	VV	1943	46639	1.23%	0.231%
188	12.771	12.728	12.805	VV	1581	35800	0.94%	0.177%
189	12.831	12.805	12.888	VV	2826	49825	1.31%	0.246%
190	12.936	12.888	13.037	VV	677	26061	0.69%	0.129%
191	13.100	13.037	13.138	PV	239	6164	0.16%	0.030%
192	13.155	13.138	13.176	VV	347	4696	0.12%	0.023%
193	13.201	13.176	13.220	VV	206	4185	0.11%	0.021%
194	13.278	13.220	13.423	VV	299307	3799034	100.00%	18.785%

195	13.442	13.423	13.471	VV	1487	31445	0.83%	0.155%
196	13.480	13.471	13.492	VV	857	10027	0.26%	0.050%
197	13.507	13.492	13.524	VV	943	16518	0.43%	0.082%
198	13.539	13.524	13.588	VV	793	26123	0.69%	0.129%
199	13.604	13.588	13.628	VV	529	10907	0.29%	0.054%
200	13.665	13.628	13.685	VV	708	18713	0.49%	0.093%
201	13.714	13.685	13.768	VV	896	26673	0.70%	0.132%
202	13.775	13.768	13.805	VV	284	6069	0.16%	0.030%
203	13.822	13.805	13.842	VV	317	6086	0.16%	0.030%
204	13.878	13.842	13.911	VV	576	17018	0.45%	0.084%
205	13.937	13.911	13.958	VV	673	13706	0.36%	0.068%
206	13.976	13.958	14.004	VV	1235	19887	0.52%	0.098%
207	14.027	14.004	14.100	VV	2855	45102	1.19%	0.223%
208	14.113	14.100	14.134	VV	227	3589	0.09%	0.018%
209	14.170	14.134	14.214	VV	382	8398	0.22%	0.042%
210	14.260	14.214	14.307	PV	634	16628	0.44%	0.082%
211	14.323	14.307	14.344	VV	363	5519	0.15%	0.027%
212	14.351	14.344	14.370	VV	193	2206	0.06%	0.011%
213	14.470	14.370	14.498	VV	983	29428	0.77%	0.146%
214	14.532	14.498	14.565	VV	740	17902	0.47%	0.089%
215	14.590	14.565	14.628	VV	1638	24695	0.65%	0.122%
216	14.712	14.628	14.784	VV	576	31189	0.82%	0.154%
217	14.789	14.784	14.808	VV	206	2107	0.06%	0.010%
218	14.838	14.808	14.854	VV	449	8794	0.23%	0.043%
219	14.881	14.854	14.900	VV	525	10069	0.27%	0.050%
220	14.917	14.900	14.930	VV	337	5185	0.14%	0.026%
221	14.943	14.930	14.954	VV	244	3579	0.09%	0.018%
222	14.968	14.954	14.987	VV	333	5117	0.13%	0.025%
223	14.996	14.987	15.018	VV	304	4390	0.12%	0.022%
224	15.041	15.018	15.054	VV	317	4848	0.13%	0.024%
225	15.085	15.054	15.104	VV	1112	17943	0.47%	0.089%
226	15.128	15.104	15.235	VV	3680	65979	1.74%	0.326%
227	15.263	15.235	15.324	VV	410	13403	0.35%	0.066%
228	15.331	15.324	15.346	VV	209	1678	0.04%	0.008%
229	15.370	15.346	15.395	VV	213	4366	0.11%	0.022%
230	15.403	15.395	15.422	VV	138	1517	0.04%	0.008%
231	15.464	15.422	15.474	PV	181	2996	0.08%	0.015%
232	15.508	15.474	15.522	VV	142	1778	0.05%	0.009%
233	15.563	15.522	15.583	VV	274	6415	0.17%	0.032%
234	15.607	15.583	15.624	VV	383	6513	0.17%	0.032%
235	15.648	15.624	15.688	VV	2755	44286	1.17%	0.219%
236	15.703	15.688	15.752	VV	313	7310	0.19%	0.036%
237	15.782	15.752	15.811	PV	385	5759	0.15%	0.028%
238	15.829	15.811	15.838	VV	121	794	0.02%	0.004%
239	15.868	15.838	15.884	VV	210	3211	0.08%	0.016%
240	15.964	15.884	15.984	VV	545	14678	0.39%	0.073%
241	16.000	15.984	16.060	VV	365	8336	0.22%	0.041%
242	16.110	16.060	16.124	PV	1046	15478	0.41%	0.077%
243	16.148	16.124	16.183	VV	4216	62220	1.64%	0.308%
244	16.193	16.183	16.222	VV	426	6979	0.18%	0.035%
245	16.231	16.222	16.249	VV	168	1634	0.04%	0.008%
246	16.283	16.249	16.307	VV	277	4455	0.12%	0.022%

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247	16.335	16.307	16.371	VV	442	10430	0.27%	0.052%
248	16.402	16.371	16.411	VV	122	2086	0.05%	0.010%
249	16.463	16.411	16.491	PV	432	12636	0.33%	0.062%
250	16.508	16.491	16.551	VV	414	8003	0.21%	0.040%
251	16.630	16.551	16.661	PV	3649	63692	1.68%	0.315%
252	16.674	16.661	16.691	VV	282	3655	0.10%	0.018%
253	16.721	16.691	16.735	VV	323	4887	0.13%	0.024%
254	16.745	16.735	16.753	PV	244	1845	0.05%	0.009%
255	16.841	16.753	16.872	VV	517	25440	0.67%	0.126%
256	16.899	16.872	16.910	VV	418	7700	0.20%	0.038%
257	16.929	16.910	16.938	VV	431	6093	0.16%	0.030%
258	16.977	16.938	17.002	VV	592	14199	0.37%	0.070%
259	17.096	17.002	17.158	VV	6197	118610	3.12%	0.586%
260	17.201	17.158	17.233	VV	364	10661	0.28%	0.053%
261	17.266	17.233	17.275	PV	220	2895	0.08%	0.014%
262	17.335	17.275	17.360	VV	978	20002	0.53%	0.099%
263	17.413	17.360	17.432	PV	551	9299	0.24%	0.046%
264	17.453	17.432	17.468	VV	458	7256	0.19%	0.036%
265	17.507	17.468	17.521	VV	1472	23311	0.61%	0.115%
266	17.547	17.521	17.591	VV	8174	123195	3.24%	0.609%
267	17.653	17.591	17.698	VV	953	29027	0.76%	0.144%
268	17.747	17.698	17.770	VV	367	5926	0.16%	0.029%
269	17.827	17.770	17.854	PV	519	9936	0.26%	0.049%
270	17.877	17.854	17.893	PV	569	8443	0.22%	0.042%
271	17.983	17.893	18.016	VV	14565	232128	6.11%	1.148%
272	18.025	18.016	18.059	VV	568	10068	0.27%	0.050%
273	18.122	18.059	18.139	VV	2460	46108	1.21%	0.228%
274	18.149	18.139	18.208	VV	1440	30333	0.80%	0.150%
275	18.262	18.208	18.288	VV	1012	22266	0.59%	0.110%
276	18.325	18.288	18.348	VV	1306	26631	0.70%	0.132%
277	18.358	18.348	18.371	VV	766	9329	0.25%	0.046%
278	18.404	18.371	18.451	VV	19370	287717	7.57%	1.423%
279	18.489	18.451	18.541	VV	3255	67373	1.77%	0.333%
280	18.558	18.541	18.586	VV	301	4161	0.11%	0.021%
281	18.670	18.586	18.694	PV	1135	24474	0.64%	0.121%
282	18.716	18.694	18.734	VV	488	7233	0.19%	0.036%
283	18.816	18.734	18.884	PV	25908	404051	10.64%	1.998%
284	18.910	18.884	18.934	VV	992	13293	0.35%	0.066%
285	18.960	18.934	18.979	PV	719	10145	0.27%	0.050%
286	18.989	18.979	18.995	VV	84	772	0.02%	0.004%
287	19.071	18.995	19.097	VV	1741	34477	0.91%	0.170%
288	19.115	19.097	19.164	VV	1115	20427	0.54%	0.101%
289	19.212	19.164	19.273	PV	24843	390438	10.28%	1.931%
290	19.320	19.273	19.331	VV	545	11147	0.29%	0.055%
291	19.390	19.331	19.408	VV	682	19700	0.52%	0.097%
292	19.460	19.408	19.481	VV	2117	45952	1.21%	0.227%
293	19.502	19.481	19.531	VV	1312	20065	0.53%	0.099%
294	19.597	19.531	19.664	PV	29957	467532	12.31%	2.312%
295	19.717	19.664	19.749	VV	901	29167	0.77%	0.144%
296	19.755	19.749	19.770	VV	419	4057	0.11%	0.020%
297	19.838	19.770	19.858	VV	2046	48117	1.27%	0.238%
298	19.887	19.858	19.928	VV	2622	70730	1.86%	0.350%
299	19.973	19.928	20.006	VV	25981	408341	10.75%	2.019%

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300	20.014	20.006	20.051	VV	1719	34896	0.92%	0.173%
301	20.209	20.051	20.228	VV	6038	263752	6.94%	1.304%
302	20.244	20.228	20.274	VV	4780	107547	2.83%	0.532%
303	20.338	20.274	20.371	VV	27959	521658	13.73%	2.579%
304	20.399	20.371	20.437	VV	4610	155393	4.09%	0.768%
305	20.491	20.437	20.505	VV	4467	157201	4.14%	0.777%
306	20.566	20.505	20.584	VV	4987	205127	5.40%	1.014%
307	20.611	20.584	20.637	VV	5585	145897	3.84%	0.721%
308	20.693	20.637	20.738	VV	22862	547273	14.41%	2.706%
309	20.764	20.738	20.791	VV	4806	145284	3.82%	0.718%
310	20.864	20.791	20.889	VV	7233	347461	9.15%	1.718%
311	20.916	20.889	20.943	VV	7221	216183	5.69%	1.069%
312	20.968	20.943	21.002	VV	6707	213873	5.63%	1.058%
313	21.060	21.002	21.118	VV	21682	642051	16.90%	3.175%
314	21.154	21.118	21.172	VV	5557	171578	4.52%	0.848%
315	21.257	21.172	21.345	VV	6801	594637	15.65%	2.940%
316	21.374	21.345	21.411	VV	4908	175638	4.62%	0.868%
317	21.471	21.411	21.560	VV	12420	503560	13.25%	2.490%
318	21.586	21.560	21.607	VV	3235	87612	2.31%	0.433%
319	21.674	21.607	21.693	VV	3043	153276	4.03%	0.758%
320	21.699	21.693	21.724	VV	2765	48298	1.27%	0.239%
321	21.762	21.724	21.794	VV	2741	103901	2.73%	0.514%
322	21.821	21.794	21.878	VV	2444	97122	2.56%	0.480%
323	21.937	21.878	22.043	VV	8964	279475	7.36%	1.382%

Sum of corrected areas: 20224208

Aliphatic EPH 110724.M Sat Nov 16 11:26:46 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-10-TPH-3		SDG No.:	P4839	
Lab Sample ID:	P4839-16		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	77.6	
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
FF015062.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.39	U	0.39	0.86	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.25		0.44	1.28	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.53		1.23	2.14	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.57	U	2.57	3.43	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.9		40 - 140	98%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.5		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.6		40 - 140	49%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-16	Acq On:	15 Nov 2024 15:39
Client Sample ID:	EX-10-TPH-3	Operator:	YP\AJ
Data file:	FF015062.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	4.507	6.371	590925	4.32	200	ug/ml
Aromatic C12-C16	6.372	9.062	5115522	37.887	300	ug/ml
Aromatic C16-C21	9.063	13.374	3784800	29.593	500	ug/ml
Aromatic C21-C36	13.375	18.817	1820548	14.938	800	ug/ml
Aromatic EPH	4.507	18.817	11311795	86.738		ug/ml
2-Bromonaphthalene (SURR)	7.991	7.991	5976766	48.94		ug/ml
2-Flurobiphenyl (SURR)	8.864	8.864	3469202	42.49		ug/ml
ortho-Terphenyl (SURR)	11.925	11.925	3299595	24.6		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015062.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:39
Operator : YP\AJ
Sample : P4839-16
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-3

Integration File: autoint1.e
Quant Time: Nov 15 15:51:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.991	5976766	48.943 ug/ml
Spiked Amount 50.000		Recovery =	97.89%
6) S 2-Flurobiphenyl (SURR)	8.864	3469202	42.493 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	84.99%
11) S ortho-Terphenyl (SURR)	11.925	3299595	24.597 ug/ml
Spiked Amount 50.000		Recovery =	49.19%
Target Compounds			

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

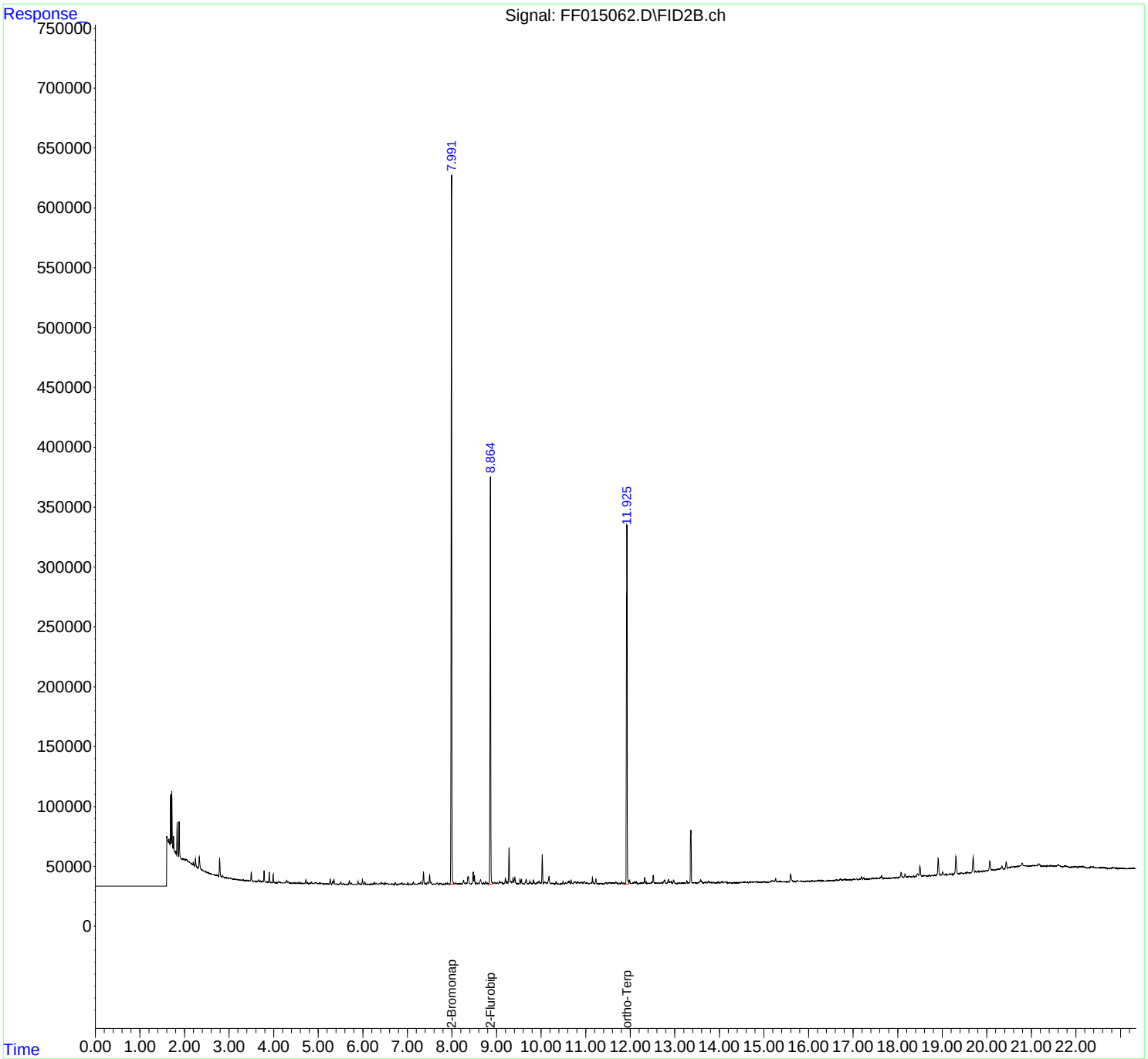
Quantitation Report (QT Reviewed)

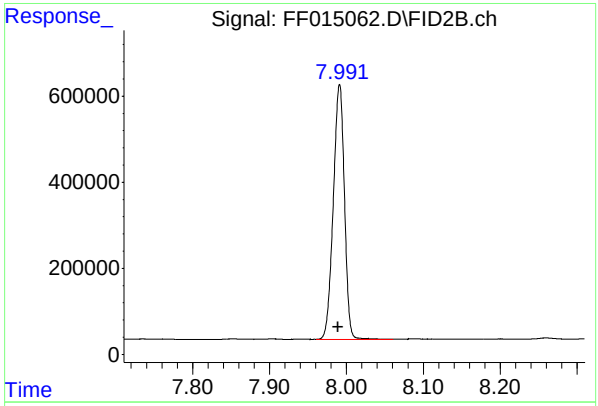
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015062.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:39
Operator : YP\AJ
Sample : P4839-16
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-3

Integration File: autoint1.e
Quant Time: Nov 15 15:51:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

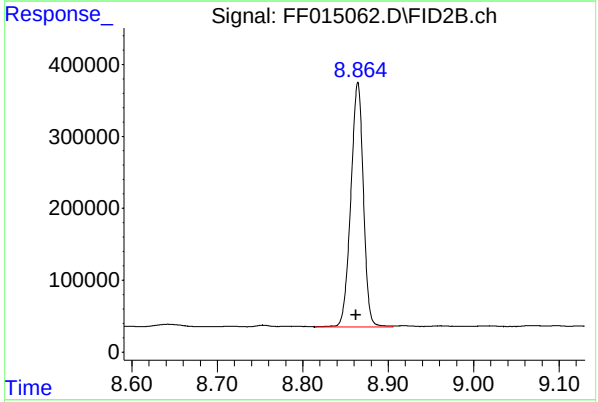




#4 2-Bromonaphthalene (SURR)

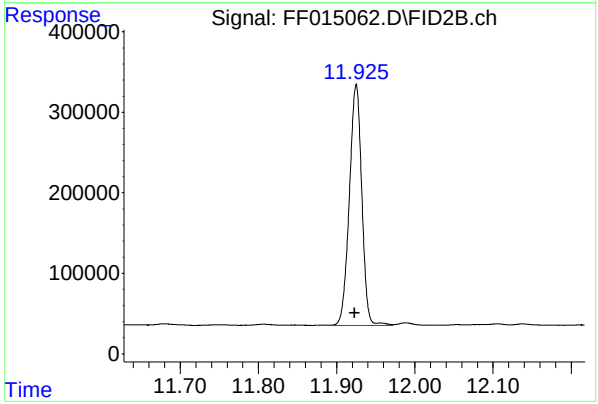
R.T.: 7.991 min
Delta R.T.: 0.002 min
Response: 5976766
Conc: 48.94 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-10-TPH-3



#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: 0.002 min
Response: 3469202
Conc: 42.49 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.002 min
Response: 3299595
Conc: 24.60 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015062.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:39
Sample : P4839-16
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.428	4.400	4.445	BV	534	3791	0.06%	0.018%
2	4.457	4.445	4.473	VV	169	2136	0.04%	0.010%
3	4.480	4.473	4.494	VV	198	1409	0.02%	0.007%
4	4.512	4.494	4.549	VV	493	5432	0.09%	0.026%
5	4.569	4.549	4.591	PV	904	9239	0.15%	0.045%
6	4.609	4.591	4.627	VV	634	6412	0.11%	0.031%
7	4.649	4.627	4.679	VV	303	3911	0.07%	0.019%
8	4.694	4.679	4.707	PV	214	2397	0.04%	0.012%
9	4.724	4.707	4.743	VV	3335	33433	0.56%	0.162%
10	4.758	4.743	4.782	VV	896	10483	0.17%	0.051%
11	4.789	4.782	4.807	VV	133	1750	0.03%	0.008%
12	4.822	4.807	4.835	VV	766	7750	0.13%	0.038%
13	4.853	4.835	4.874	VV	1627	16774	0.28%	0.081%
14	4.880	4.874	4.897	VV	193	1947	0.03%	0.009%
15	4.930	4.897	4.942	VV	1161	14767	0.25%	0.072%
16	4.956	4.942	4.977	VV	1432	17335	0.29%	0.084%
17	4.984	4.977	5.005	VV	413	4596	0.08%	0.022%
18	5.032	5.005	5.054	VV	796	14190	0.24%	0.069%
19	5.064	5.054	5.068	VV	616	4385	0.07%	0.021%
20	5.079	5.068	5.097	VV	631	7285	0.12%	0.035%
21	5.111	5.097	5.130	VV	281	3182	0.05%	0.015%
22	5.150	5.130	5.165	VV	488	4942	0.08%	0.024%
23	5.185	5.165	5.201	VV	306	4570	0.08%	0.022%
24	5.208	5.201	5.223	VV	203	1829	0.03%	0.009%
25	5.244	5.223	5.251	VV	541	5421	0.09%	0.026%
26	5.270	5.251	5.302	VV	4072	49209	0.82%	0.239%
27	5.326	5.302	5.339	PV	2313	24810	0.41%	0.120%
28	5.353	5.339	5.374	VV	3997	39985	0.67%	0.194%
29	5.386	5.374	5.397	VV	293	3119	0.05%	0.015%
30	5.410	5.397	5.432	VV	397	3957	0.07%	0.019%
31	5.445	5.432	5.457	VV	141	1325	0.02%	0.006%
32	5.481	5.457	5.491	VV	275	3559	0.06%	0.017%
33	5.508	5.491	5.532	VV	2068	20739	0.35%	0.101%
34	5.554	5.542	5.570	VV	444	5117	0.09%	0.025%
35	5.582	5.570	5.601	VV	371	3980	0.07%	0.019%
36	5.621	5.613	5.625	VV	181	1076	0.02%	0.005%

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37	5.649	5.634	5.673	VV	157	2188	0.04%	0.011%
38	5.699	5.673	5.719	VV	3196	35142	0.59%	0.170%
39	5.732	5.719	5.739	VV	897	9262	0.15%	0.045%
40	5.747	5.739	5.766	VV	1007	10318	0.17%	0.050%
41	5.779	5.766	5.797	VV	244	3291	0.05%	0.016%
42	5.807	5.797	5.822	VV	255	2497	0.04%	0.012%
43	5.894	5.861	5.917	VV	2426	30669	0.51%	0.149%
44	5.926	5.917	5.949	VV	614	6507	0.11%	0.032%
45	5.964	5.949	5.977	VV	496	5415	0.09%	0.026%
46	5.994	5.977	6.033	VV	4125	49177	0.82%	0.239%
47	6.051	6.033	6.073	VV	2214	23762	0.40%	0.115%
48	6.088	6.073	6.104	VV	424	4911	0.08%	0.024%
49	6.118	6.104	6.122	VV	297	1785	0.03%	0.009%
50	6.132	6.122	6.158	VV	301	4352	0.07%	0.021%
51	6.183	6.158	6.203	PV	816	9668	0.16%	0.047%
52	6.238	6.203	6.254	VV	779	13571	0.23%	0.066%
53	6.272	6.254	6.292	VV	2010	22611	0.38%	0.110%
54	6.309	6.292	6.326	VV	1090	13345	0.22%	0.065%
55	6.332	6.326	6.347	VV	402	3548	0.06%	0.017%
56	6.375	6.347	6.393	VV	1017	14976	0.25%	0.073%
57	6.415	6.393	6.445	VV	1927	34892	0.58%	0.169%
58	6.457	6.445	6.488	VV	978	16843	0.28%	0.082%
59	6.502	6.488	6.518	VV	1718	18871	0.31%	0.092%
60	6.543	6.518	6.558	VV	1262	20109	0.34%	0.098%
61	6.568	6.558	6.617	VV	814	13576	0.23%	0.066%
62	6.649	6.617	6.666	VV	1034	14825	0.25%	0.072%
63	6.675	6.666	6.695	VV	425	4795	0.08%	0.023%
64	6.730	6.695	6.780	VV	1805	25405	0.42%	0.123%
65	6.816	6.780	6.831	VV	836	13019	0.22%	0.063%
66	6.852	6.831	6.866	VV	1005	13716	0.23%	0.067%
67	6.883	6.866	6.905	VV	1649	19398	0.32%	0.094%
68	6.929	6.905	6.946	VV	886	12408	0.21%	0.060%
69	6.959	6.946	6.972	VV	668	6799	0.11%	0.033%
70	6.983	6.972	6.997	VV	471	5083	0.08%	0.025%
71	7.014	6.997	7.035	VV	1876	18845	0.31%	0.091%
72	7.055	7.035	7.077	PV	631	9351	0.16%	0.045%
73	7.088	7.077	7.102	VV	367	4286	0.07%	0.021%
74	7.136	7.102	7.160	VV	2175	32052	0.53%	0.155%
75	7.180	7.160	7.202	VV	689	11055	0.18%	0.054%
76	7.264	7.202	7.282	VV	1375	33766	0.56%	0.164%
77	7.303	7.282	7.339	VV	2388	38767	0.65%	0.188%
78	7.364	7.339	7.400	VV	10933	132409	2.21%	0.642%
79	7.414	7.400	7.432	VV	755	9851	0.16%	0.048%
80	7.452	7.432	7.482	VV	2443	40591	0.68%	0.197%
81	7.502	7.482	7.521	VV	8502	93999	1.57%	0.456%
82	7.533	7.521	7.565	VV	2076	28153	0.47%	0.137%
83	7.576	7.565	7.589	VV	452	5222	0.09%	0.025%
84	7.608	7.589	7.624	VV	548	8895	0.15%	0.043%
85	7.672	7.624	7.703	VV	1558	33954	0.57%	0.165%
86	7.735	7.703	7.751	VV	1063	20371	0.34%	0.099%
87	7.762	7.751	7.799	VV	1009	13669	0.23%	0.066%
88	7.818	7.799	7.831	VV	214	3000	0.05%	0.015%
89	7.853	7.831	7.880	VV	1220	18661	0.31%	0.091%

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90	7.903	7.880	7.923	VV	1109	16228	0.27%	0.079%
91	7.943	7.923	7.956	VV	727	8469	0.14%	0.041%
92	7.991	7.956	8.060	VV	592699	5991533	100.00%	29.064%
93	8.088	8.060	8.129	VV	1194	34306	0.57%	0.166%
94	8.147	8.129	8.174	VV	688	15653	0.26%	0.076%
95	8.200	8.174	8.220	VV	995	17990	0.30%	0.087%
96	8.260	8.220	8.297	VV	3472	64843	1.08%	0.315%
97	8.312	8.297	8.322	VV	1474	16236	0.27%	0.079%
98	8.332	8.322	8.338	VV	1099	9084	0.15%	0.044%
99	8.358	8.338	8.365	VV	6340	62506	1.04%	0.303%
100	8.372	8.365	8.417	VV	6516	78126	1.30%	0.379%
101	8.478	8.417	8.493	VV	10436	132968	2.22%	0.645%
102	8.506	8.493	8.528	VV	7376	80506	1.34%	0.391%
103	8.555	8.528	8.577	VV	1602	31226	0.52%	0.151%
104	8.593	8.577	8.612	VV	1040	16577	0.28%	0.080%
105	8.642	8.612	8.689	VV	3925	88045	1.47%	0.427%
106	8.716	8.689	8.735	VV	1173	19898	0.33%	0.097%
107	8.753	8.735	8.772	VV	2529	30391	0.51%	0.147%
108	8.778	8.772	8.815	VV	963	19168	0.32%	0.093%
109	8.865	8.815	8.905	VV	339766	3484806	58.16%	16.904%
110	8.918	8.905	8.942	VV	1840	29404	0.49%	0.143%
111	8.961	8.942	8.990	VV	1611	33517	0.56%	0.163%
112	9.018	8.990	9.040	VV	1619	33963	0.57%	0.165%
113	9.068	9.040	9.084	VV	1916	35342	0.59%	0.171%
114	9.096	9.084	9.112	VV	1741	24968	0.42%	0.121%
115	9.123	9.112	9.142	VV	1424	17773	0.30%	0.086%
116	9.154	9.142	9.170	VV	976	13271	0.22%	0.064%
117	9.202	9.170	9.222	VV	5134	73769	1.23%	0.358%
118	9.236	9.222	9.257	VV	2649	33743	0.56%	0.164%
119	9.283	9.257	9.317	VV	30770	352992	5.89%	1.712%
120	9.327	9.317	9.345	VV	2454	32496	0.54%	0.158%
121	9.373	9.345	9.389	VV	5214	75408	1.26%	0.366%
122	9.413	9.389	9.458	VV	5770	103787	1.73%	0.503%
123	9.474	9.458	9.499	VV	653	10406	0.17%	0.050%
124	9.530	9.499	9.547	VV	4204	52434	0.88%	0.254%
125	9.562	9.547	9.600	VV	3890	47748	0.80%	0.232%
126	9.606	9.600	9.623	VV	395	4547	0.08%	0.022%
127	9.667	9.623	9.700	VV	4509	76554	1.28%	0.371%
128	9.714	9.700	9.727	VV	692	9225	0.15%	0.045%
129	9.749	9.727	9.765	VV	2850	34588	0.58%	0.168%
130	9.776	9.765	9.801	VV	1354	16610	0.28%	0.081%
131	9.830	9.801	9.867	VV	3661	59976	1.00%	0.291%
132	9.871	9.867	9.884	VV	729	5888	0.10%	0.029%
133	9.902	9.884	9.916	VV	1453	19971	0.33%	0.097%
134	9.931	9.916	9.942	VV	1831	21604	0.36%	0.105%
135	9.956	9.942	9.977	VV	2711	37016	0.62%	0.180%
136	9.995	9.977	10.009	VV	1282	19197	0.32%	0.093%
137	10.029	10.009	10.057	VV	24956	265025	4.42%	1.286%
138	10.077	10.057	10.115	VV	2041	49269	0.82%	0.239%
139	10.125	10.115	10.144	VV	1253	15246	0.25%	0.074%
140	10.180	10.144	10.220	VV	6365	112303	1.87%	0.545%
141	10.234	10.220	10.249	VV	853	11366	0.19%	0.055%

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142	10.272	10.249	10.306	VV	1117	21151	0.35%	0.103%
143	10.337	10.306	10.377	VV	1764	31555	0.53%	0.153%
144	10.393	10.377	10.420	VV	370	5600	0.09%	0.027%
145	10.438	10.420	10.455	PV	497	6138	0.10%	0.030%
146	10.464	10.455	10.470	VV	332	2712	0.05%	0.013%
147	10.495	10.470	10.522	VV	2250	30985	0.52%	0.150%
148	10.551	10.522	10.576	VV	1279	24068	0.40%	0.117%
149	10.603	10.576	10.615	VV	2057	29520	0.49%	0.143%
150	10.631	10.615	10.657	VV	2660	39624	0.66%	0.192%
151	10.675	10.657	10.727	VV	3455	56931	0.95%	0.276%
152	10.750	10.727	10.758	VV	1983	24850	0.41%	0.121%
153	10.768	10.758	10.791	VV	2018	31006	0.52%	0.150%
154	10.813	10.791	10.839	VV	1804	38868	0.65%	0.189%
155	10.851	10.839	10.869	VV	1403	20578	0.34%	0.100%
156	10.885	10.869	10.903	VV	1377	23741	0.40%	0.115%
157	10.920	10.903	10.939	VV	1711	24152	0.40%	0.117%
158	10.969	10.939	11.006	VV	2236	55405	0.92%	0.269%
159	11.033	11.006	11.074	VV	1343	30038	0.50%	0.146%
160	11.117	11.074	11.134	VV	920	20200	0.34%	0.098%
161	11.154	11.134	11.181	VV	5573	66990	1.12%	0.325%
162	11.186	11.181	11.204	VV	577	5802	0.10%	0.028%
163	11.229	11.204	11.280	VV	4390	58337	0.97%	0.283%
164	11.290	11.280	11.315	VV	397	6082	0.10%	0.030%
165	11.333	11.315	11.352	VV	654	9310	0.16%	0.045%
166	11.368	11.352	11.389	VV	446	6711	0.11%	0.033%
167	11.414	11.389	11.420	VV	204	2666	0.04%	0.013%
168	11.464	11.420	11.485	VV	1396	30816	0.51%	0.149%
169	11.513	11.485	11.526	VV	1067	18343	0.31%	0.089%
170	11.544	11.526	11.561	VV	1363	21740	0.36%	0.105%
171	11.579	11.561	11.589	VV	774	11332	0.19%	0.055%
172	11.605	11.589	11.620	VV	1165	15400	0.26%	0.075%
173	11.634	11.620	11.660	VV	936	18872	0.31%	0.092%
174	11.680	11.660	11.724	VV	1970	35665	0.60%	0.173%
175	11.749	11.724	11.776	PV	874	14637	0.24%	0.071%
176	11.807	11.776	11.832	VV	1442	22110	0.37%	0.107%
177	11.846	11.832	11.868	VV	517	6448	0.11%	0.031%
178	11.925	11.868	11.973	VV	299944	3304016	55.14%	16.027%
179	11.988	11.973	12.033	VV	3211	43520	0.73%	0.211%
180	12.055	12.033	12.070	VV	928	14073	0.23%	0.068%
181	12.076	12.070	12.087	VV	933	8898	0.15%	0.043%
182	12.105	12.087	12.122	VV	2018	27130	0.45%	0.132%
183	12.138	12.122	12.191	VV	1778	27987	0.47%	0.136%
184	12.210	12.191	12.226	VV	450	6042	0.10%	0.029%
185	12.257	12.226	12.281	VV	1258	25151	0.42%	0.122%
186	12.296	12.281	12.305	VV	892	10782	0.18%	0.052%
187	12.325	12.305	12.348	VV	5535	67190	1.12%	0.326%
188	12.363	12.348	12.384	VV	1084	13659	0.23%	0.066%
189	12.405	12.384	12.413	VV	391	5360	0.09%	0.026%
190	12.428	12.413	12.443	VV	504	7361	0.12%	0.036%
191	12.458	12.443	12.472	VV	703	8798	0.15%	0.043%
192	12.494	12.472	12.499	VV	1421	16106	0.27%	0.078%
193	12.517	12.499	12.555	VV	7037	93763	1.56%	0.455%
194	12.570	12.555	12.592	VV	835	14065	0.23%	0.068%

195	12.606	12.592	12.622	VV	642	8357	0.14%	0.041%
196	12.638	12.622	12.668	VV	746	15651	0.26%	0.076%
197	12.702	12.668	12.727	VV	1042	22191	0.37%	0.108%
198	12.748	12.727	12.757	VV	1798	22256	0.37%	0.108%
199	12.771	12.757	12.807	VV	2659	40000	0.67%	0.194%
200	12.856	12.807	12.877	VV	3541	57854	0.97%	0.281%
201	12.894	12.877	12.901	VV	1522	17715	0.30%	0.086%
202	12.917	12.901	12.952	VV	2091	32379	0.54%	0.157%
203	12.973	12.952	13.027	VV	3063	49409	0.82%	0.240%
204	13.032	13.027	13.057	VV	189	1494	0.02%	0.007%
205	13.072	13.057	13.077	PV	212	1523	0.03%	0.007%
206	13.101	13.077	13.120	VV	668	8549	0.14%	0.041%
207	13.137	13.120	13.150	VV	449	5657	0.09%	0.027%
208	13.164	13.150	13.174	VV	468	5133	0.09%	0.025%
209	13.191	13.174	13.205	VV	618	8239	0.14%	0.040%
210	13.222	13.205	13.248	VV	421	7249	0.12%	0.035%
211	13.271	13.248	13.299	VV	2269	30058	0.50%	0.146%
212	13.313	13.299	13.327	VV	532	7955	0.13%	0.039%
213	13.360	13.327	13.390	VV	44797	552341	9.22%	2.679%
214	13.411	13.390	13.432	VV	831	16526	0.28%	0.080%
215	13.445	13.432	13.468	VV	696	12827	0.21%	0.062%
216	13.477	13.468	13.502	VV	608	7858	0.13%	0.038%
217	13.580	13.502	13.595	VV	3135	73592	1.23%	0.357%
218	13.603	13.595	13.630	VV	1766	22250	0.37%	0.108%
219	13.636	13.630	13.647	VV	358	3306	0.06%	0.016%
220	13.668	13.647	13.682	VV	906	12467	0.21%	0.060%
221	13.702	13.682	13.726	VV	1087	19904	0.33%	0.097%
222	13.752	13.726	13.807	VV	1845	43352	0.72%	0.210%
223	13.823	13.807	13.838	VV	724	10874	0.18%	0.053%
224	13.859	13.838	13.884	VV	1157	19768	0.33%	0.096%
225	13.893	13.884	13.896	VV	428	2621	0.04%	0.013%
226	13.904	13.896	13.917	VV	576	5640	0.09%	0.027%
227	13.932	13.917	13.947	VV	601	7373	0.12%	0.036%
228	13.973	13.947	13.995	VV	1349	21810	0.36%	0.106%
229	14.005	13.995	14.023	VV	759	9797	0.16%	0.048%
230	14.063	14.023	14.089	VV	1743	34124	0.57%	0.166%
231	14.118	14.089	14.125	VV	1143	16348	0.27%	0.079%
232	14.136	14.125	14.157	VV	1211	16392	0.27%	0.080%
233	14.177	14.157	14.199	VV	727	10166	0.17%	0.049%
234	14.214	14.199	14.227	VV	329	4430	0.07%	0.021%
235	14.233	14.227	14.237	VV	290	1508	0.03%	0.007%
236	14.247	14.237	14.260	VV	272	3222	0.05%	0.016%
237	14.263	14.260	14.274	VV	228	1322	0.02%	0.006%
238	14.333	14.296	14.375	PV	449	12683	0.21%	0.062%
239	14.390	14.375	14.396	VV	217	2257	0.04%	0.011%
240	14.407	14.396	14.433	VV	275	4645	0.08%	0.023%
241	14.478	14.433	14.495	VV	668	13317	0.22%	0.065%
242	14.506	14.495	14.522	VV	532	6992	0.12%	0.034%
243	14.550	14.522	14.569	VV	951	18406	0.31%	0.089%
244	14.580	14.569	14.612	VV	669	13448	0.22%	0.065%
245	14.614	14.612	14.620	VV	342	1524	0.03%	0.007%
246	14.629	14.620	14.652	VV	395	5511	0.09%	0.027%

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247	14.676	14.652	14.710	VV	832	18970	0.32%	0.092%
248	14.730	14.710	14.754	VV	838	14964	0.25%	0.073%
249	14.775	14.754	14.787	VV	754	10892	0.18%	0.053%
250	14.801	14.787	14.820	VV	827	12317	0.21%	0.060%
251	14.837	14.820	14.860	VV	900	13897	0.23%	0.067%
252	14.886	14.860	14.913	VV	426	9668	0.16%	0.047%
253	14.919	14.913	14.925	VV	310	1678	0.03%	0.008%
254	14.932	14.925	14.945	VV	310	3114	0.05%	0.015%
255	14.958	14.945	14.977	VV	502	6816	0.11%	0.033%
256	14.995	14.977	15.011	VV	635	9747	0.16%	0.047%
257	15.018	15.011	15.045	VV	553	7360	0.12%	0.036%
258	15.061	15.045	15.089	VV	252	4451	0.07%	0.022%
259	15.102	15.099	15.125	VV	205	2979	0.05%	0.014%
260	15.148	15.125	15.163	VV	950	13026	0.22%	0.063%
261	15.188	15.163	15.202	VV	1521	26274	0.44%	0.127%
262	15.215	15.202	15.237	VV	1127	17078	0.29%	0.083%
263	15.262	15.237	15.294	VV	3157	44561	0.74%	0.216%
264	15.306	15.294	15.319	VV	458	5613	0.09%	0.027%
265	15.353	15.319	15.374	VV	865	17968	0.30%	0.087%
266	15.387	15.374	15.420	VV	548	9060	0.15%	0.044%
267	15.455	15.429	15.486	VV	560	9080	0.15%	0.044%
268	15.513	15.486	15.537	VV	283	4609	0.08%	0.022%
269	15.597	15.560	15.695	VV	6289	132119	2.21%	0.641%
270	15.700	15.695	15.715	VV	384	3137	0.05%	0.015%
271	15.753	15.715	15.775	VV	1042	23294	0.39%	0.113%
272	15.783	15.775	15.789	VV	302	2048	0.03%	0.010%
273	15.793	15.789	15.806	VV	296	2385	0.04%	0.012%
274	15.822	15.806	15.840	VV	707	9505	0.16%	0.046%
275	15.861	15.840	15.898	VV	582	9315	0.16%	0.045%
276	15.947	15.898	15.953	PV	317	5730	0.10%	0.028%
277	15.986	15.953	15.991	VV	454	7584	0.13%	0.037%
278	15.994	15.991	16.037	VV	428	6949	0.12%	0.034%
279	16.060	16.037	16.079	VV	346	6687	0.11%	0.032%
280	16.084	16.079	16.089	VV	299	1538	0.03%	0.007%
281	16.109	16.089	16.114	VV	374	4677	0.08%	0.023%
282	16.119	16.114	16.174	VV	371	8692	0.15%	0.042%
283	16.198	16.174	16.218	VV	720	11584	0.19%	0.056%
284	16.240	16.218	16.279	VV	1032	18405	0.31%	0.089%
285	16.297	16.279	16.319	VV	559	8416	0.14%	0.041%
286	16.328	16.319	16.347	VV	283	3083	0.05%	0.015%
287	16.364	16.347	16.374	VV	155	1668	0.03%	0.008%
288	16.427	16.400	16.446	VV	395	6890	0.11%	0.033%
289	16.459	16.446	16.472	VV	282	2585	0.04%	0.013%
290	16.505	16.472	16.511	PV	173	2543	0.04%	0.012%
291	16.530	16.511	16.552	VV	289	4546	0.08%	0.022%
292	16.573	16.552	16.577	VV	250	2346	0.04%	0.011%
293	16.580	16.577	16.586	VV	238	1057	0.02%	0.005%
294	16.622	16.586	16.656	VV	899	19389	0.32%	0.094%
295	16.718	16.666	16.765	VV	1188	37870	0.63%	0.184%
296	16.803	16.765	16.823	VV	1044	19300	0.32%	0.094%
297	16.852	16.823	16.858	VV	603	8908	0.15%	0.043%
298	16.861	16.858	16.872	VV	482	3321	0.06%	0.016%
299	16.875	16.872	16.903	VV	381	5021	0.08%	0.024%

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300	16.908	16.903	16.934	VV	333	4875	0.08%	0.024%
301	16.950	16.934	16.973	VV	431	6685	0.11%	0.032%
302	17.004	16.973	17.017	VV	584	10164	0.17%	0.049%
303	17.025	17.017	17.044	VV	617	6528	0.11%	0.032%
304	17.053	17.044	17.060	VV	177	1231	0.02%	0.006%
305	17.082	17.060	17.101	VV	882	12451	0.21%	0.060%
306	17.107	17.101	17.122	VV	239	1401	0.02%	0.007%
307	17.156	17.122	17.165	VV	576	8742	0.15%	0.042%
308	17.188	17.165	17.217	VV	2250	32935	0.55%	0.160%
309	17.237	17.217	17.258	VV	1403	20222	0.34%	0.098%
310	17.264	17.258	17.299	VV	414	6242	0.10%	0.030%
311	17.325	17.299	17.344	VV	386	6911	0.12%	0.034%
312	17.352	17.344	17.367	VV	238	2020	0.03%	0.010%
313	17.396	17.367	17.404	VV	400	7095	0.12%	0.034%
314	17.409	17.404	17.412	VV	345	1524	0.03%	0.007%
315	17.432	17.412	17.464	VV	1201	21717	0.36%	0.105%
316	17.468	17.464	17.480	VV	424	3271	0.05%	0.016%
317	17.489	17.480	17.496	VV	463	3473	0.06%	0.017%
318	17.518	17.496	17.550	VV	672	18149	0.30%	0.088%
319	17.564	17.550	17.568	VV	599	5749	0.10%	0.028%
320	17.586	17.568	17.596	VV	700	10172	0.17%	0.049%
321	17.609	17.596	17.620	VV	881	11083	0.18%	0.054%
322	17.638	17.620	17.678	VV	1972	33383	0.56%	0.162%
323	17.685	17.678	17.700	VV	318	2947	0.05%	0.014%
324	17.740	17.700	17.781	VV	538	14503	0.24%	0.070%
325	17.817	17.781	17.839	VV	443	7356	0.12%	0.036%
326	17.866	17.839	17.892	VV	465	6751	0.11%	0.033%
327	17.914	17.892	17.927	PV	317	4296	0.07%	0.021%
328	17.930	17.927	17.952	VV	286	2960	0.05%	0.014%
329	17.975	17.952	18.000	VV	418	6107	0.10%	0.030%
330	18.076	18.000	18.105	VV	4652	79482	1.33%	0.386%
331	18.123	18.105	18.137	VV	441	7222	0.12%	0.035%
332	18.165	18.137	18.196	VV	3049	48719	0.81%	0.236%
333	18.216	18.196	18.228	VV	530	7862	0.13%	0.038%
334	18.231	18.228	18.239	VV	410	2465	0.04%	0.012%
335	18.259	18.239	18.282	VV	968	14736	0.25%	0.071%
336	18.300	18.282	18.323	VV	388	6130	0.10%	0.030%
337	18.350	18.323	18.380	VV	624	12012	0.20%	0.058%
338	18.400	18.380	18.417	VV	735	9766	0.16%	0.047%
339	18.443	18.417	18.472	VV	2555	58041	0.97%	0.282%
340	18.499	18.472	18.545	VV	9026	144609	2.41%	0.701%
341	18.552	18.545	18.562	VV	351	2861	0.05%	0.014%
342	18.593	18.562	18.652	VV	960	25433	0.42%	0.123%
343	18.672	18.652	18.684	VV	301	3536	0.06%	0.017%
344	18.707	18.684	18.729	VV	784	10507	0.18%	0.051%
345	18.767	18.729	18.782	PV	352	5250	0.09%	0.025%

Sum of corrected areas: 20614686

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-1			SDG No.:	P4839
Lab Sample ID:	P4839-17			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.9
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 19:19	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.19	mg/kg	FE051271.D
Aliphatic C12-C16	Aliphatic C12-C16	0.76	J	1	0.29	0.79	mg/kg	FE051271.D
Aliphatic C16-C21	Aliphatic C16-C21	1.52		1	0.36	1.19	mg/kg	FE051271.D
Aliphatic C21-C28	Aliphatic C21-C28	1.48	J	1	0.95	1.59	mg/kg	FE051271.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	2.14	2.38	mg/kg	FE051271.D
Aromatic C10-C12	Aromatic C10-C12	0.36	U	1	0.36	0.79	mg/kg	FF015063.D
Aromatic C12-C16	Aromatic C12-C16	3.12		1	0.41	1.19	mg/kg	FF015063.D
Aromatic C16-C21	Aromatic C16-C21	2.22		1	1.14	1.98	mg/kg	FF015063.D
Aromatic C21-C36	Aromatic C21-C36	2.69	J	1	2.38	3.17	mg/kg	FF015063.D
Total AliphaticEPH	Total AliphaticEPH	25.1			4.19	7.14	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.03			4.28	7.13	mg/kg	
Total EPH	Total EPH	33.1			8.47	14.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-1			SDG No.:	P4839
Lab Sample ID:	P4839-17			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.9
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 19:19	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.19	mg/kg	FE051271.D
Aliphatic C12-C16	Aliphatic C12-C16	0.76	J	1	0.29	0.79	mg/kg	FE051271.D
Aliphatic C16-C21	Aliphatic C16-C21	1.52		1	0.36	1.19	mg/kg	FE051271.D
Aliphatic C21-C28	Aliphatic C21-C28	1.48	J	1	0.95	1.59	mg/kg	FE051271.D
Aliphatic C28-C40	Aliphatic C28-C40	21.3		1	2.14	2.38	mg/kg	FE051271.D
Aromatic C10-C12	Aromatic C10-C12	0.36	U	1	0.36	0.79	mg/kg	FF015063.D
Aromatic C12-C16	Aromatic C12-C16	3.12		1	0.41	1.19	mg/kg	FF015063.D
Aromatic C16-C21	Aromatic C16-C21	2.22		1	1.14	1.98	mg/kg	FF015063.D
Aromatic C21-C36	Aromatic C21-C36	2.69	J	1	2.38	3.17	mg/kg	FF015063.D
Total AliphaticEPH	Total AliphaticEPH	25.1			4.19	7.14	mg/kg	
Total AromaticEPH	Total AromaticEPH	8.03			4.28	7.13	mg/kg	
Total EPH	Total EPH	33.1			8.47	14.3	mg/kg	

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

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

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-1		SDG No.:	P4839	
Lab Sample ID:	P4839-17		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.9	
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
FE051271.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.45	U	0.45	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.76	J	0.29	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		1.52		0.36	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		1.48	J	0.95	1.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		21.3		2.14	2.38	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		36.7		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:	P4839-17	Acq On:	15 Nov 2024 19:19
Client Sample ID:	EX-4-TPH-1	Operator:	YP\AJ
Data file:	FE051271.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	431859	3.087	300	ug/ml
Aliphatic C12-C16	6.754	10.185	1350999	9.606	200	ug/ml
Aliphatic C16-C21	10.186	13.544	2633814	19.118	300	ug/ml
Aliphatic C21-C28	13.545	17.200	2499524	18.66	400	ug/ml
Aliphatic C28-C40	17.201	22.043	34541012	268.283	600	ug/ml
Aliphatic EPH	3.134	22.043	41457208	318.754		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	4164229	36.68		ug/ml
Aliphatic C9-C28	3.134	17.200	6916196	50.471	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051271.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 19:19
Operator : YP\AJ
Sample : P4839-17
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-1

Integration File: autoint1.e
Quant Time: Nov 16 08:21:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	4164229	36.679 ug/ml
Spiked Amount 50.000		Recovery = 73.36%	
Target Compounds			

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

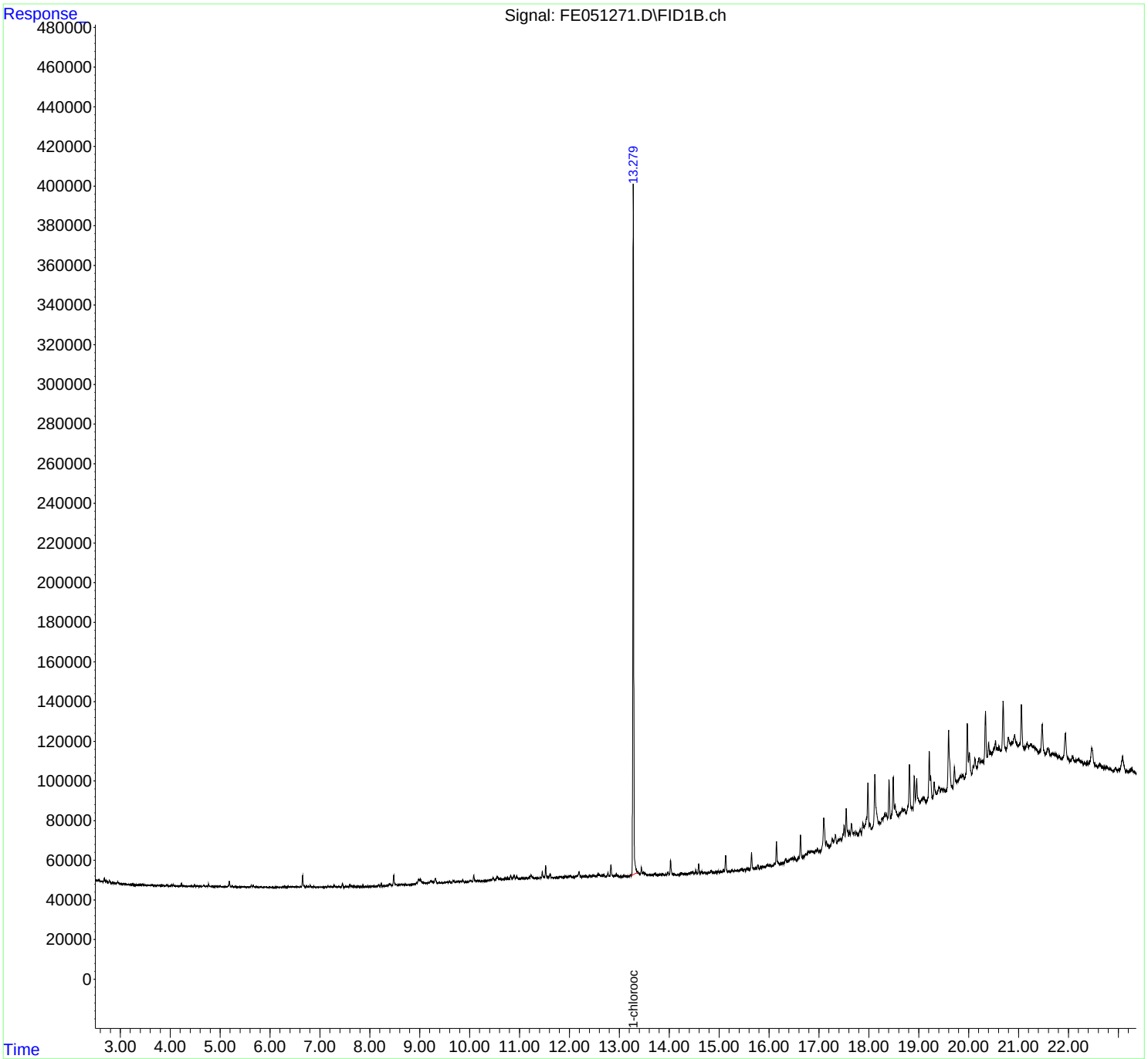
Quantitation Report (QT Reviewed)

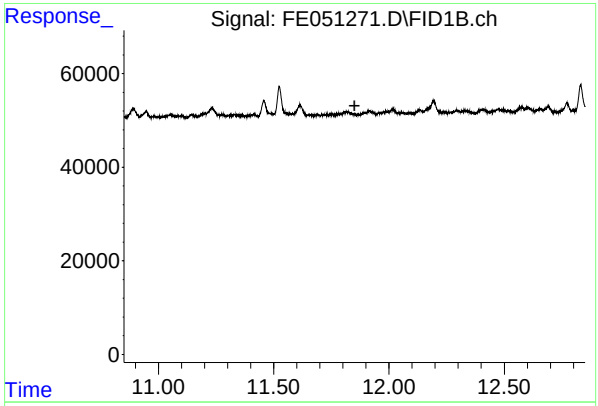
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051271.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 19:19
Operator : YP\AJ
Sample : P4839-17
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-1

Integration File: autoint1.e
Quant Time: Nov 16 08:21:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

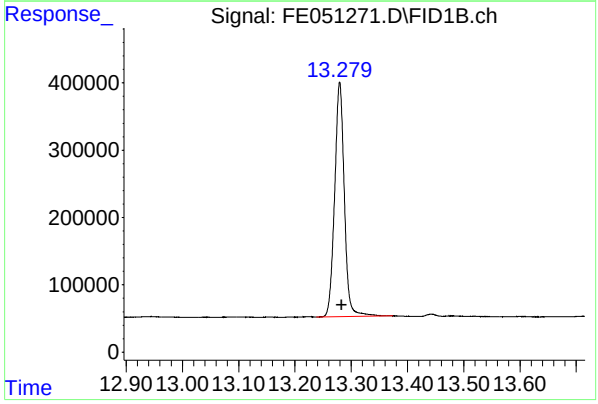




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 4164229
Conc: 36.68 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051271.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 19:19
Sample : P4839-17
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.241	3.214	3.308	BV	258	3789	0.09%	0.008%
2	3.328	3.308	3.341	PV	83	717	0.02%	0.002%
3	3.361	3.341	3.370	VV	149	1600	0.04%	0.003%
4	3.377	3.370	3.400	VV	154	1737	0.04%	0.004%
5	3.433	3.400	3.503	VV	161	6697	0.15%	0.015%
6	3.513	3.503	3.533	VV	105	1416	0.03%	0.003%
7	3.548	3.533	3.558	VV	199	1969	0.05%	0.004%
8	3.570	3.558	3.602	VV	210	3596	0.08%	0.008%
9	3.622	3.602	3.668	VV	306	5157	0.12%	0.011%
10	3.683	3.668	3.722	VV	244	3831	0.09%	0.008%
11	3.741	3.722	3.784	PV	158	3276	0.08%	0.007%
12	3.788	3.784	3.804	VV	82	507	0.01%	0.001%
13	3.837	3.804	3.848	PV	312	4071	0.09%	0.009%
14	3.859	3.848	3.906	VV	203	4490	0.10%	0.010%
15	3.927	3.906	3.991	VV	455	8088	0.19%	0.018%
16	4.029	4.001	4.043	BV	497	5462	0.13%	0.012%
17	4.061	4.043	4.113	VV	744	9672	0.22%	0.021%
18	4.136	4.113	4.175	PV	230	2672	0.06%	0.006%
19	4.193	4.175	4.203	PV	125	1319	0.03%	0.003%
20	4.227	4.203	4.353	VV	1047	22400	0.52%	0.049%
21	4.397	4.353	4.451	VV	247	8396	0.19%	0.018%
22	4.488	4.451	4.518	VV	650	10640	0.25%	0.023%
23	4.534	4.518	4.566	VV	383	6005	0.14%	0.013%
24	4.575	4.566	4.582	VV	142	881	0.02%	0.002%
25	4.607	4.582	4.637	VV	425	5968	0.14%	0.013%
26	4.673	4.637	4.718	VV	801	13577	0.31%	0.030%
27	4.735	4.718	4.751	VV	636	6739	0.16%	0.015%
28	4.768	4.751	4.809	VV	1400	16683	0.39%	0.036%
29	4.842	4.809	4.863	VV	148	3595	0.08%	0.008%
30	4.917	4.863	4.938	VV	275	8088	0.19%	0.018%
31	4.993	4.938	5.079	VV	408	13206	0.31%	0.029%
32	5.096	5.079	5.134	VV	255	4305	0.10%	0.009%
33	5.184	5.134	5.224	VV	2956	44068	1.02%	0.096%
34	5.245	5.224	5.269	VV	673	10142	0.23%	0.022%
35	5.291	5.269	5.343	VV	262	6674	0.15%	0.015%
36	5.359	5.343	5.378	PV	118	1545	0.04%	0.003%

rteres

37	5.397	5.378	5.414	VV	272	2976	0.07%	0.006%
38	5.421	5.414	5.441	VV	163	1759	0.04%	0.004%
39	5.462	5.441	5.478	VV	128	1489	0.03%	0.003%
40	5.493	5.478	5.544	VV	148	4636	0.11%	0.010%
41	5.560	5.544	5.570	VV	92	1220	0.03%	0.003%
42	5.581	5.570	5.601	VV	164	1922	0.04%	0.004%
43	5.626	5.601	5.651	VV	1014	14391	0.33%	0.031%
44	5.664	5.651	5.706	VV	1172	14720	0.34%	0.032%
45	5.725	5.706	5.781	VV	275	5454	0.13%	0.012%
46	5.799	5.781	5.845	VV	266	6086	0.14%	0.013%
47	5.854	5.845	5.873	VV	95	1289	0.03%	0.003%
48	5.882	5.873	5.908	VV	186	2201	0.05%	0.005%
49	5.929	5.908	5.965	VV	398	6877	0.16%	0.015%
50	5.987	5.965	6.010	PV	175	3383	0.08%	0.007%
51	6.037	6.010	6.088	VV	167	3231	0.07%	0.007%
52	6.101	6.088	6.132	PV	155	1863	0.04%	0.004%
53	6.152	6.132	6.190	PV	162	2516	0.06%	0.005%
54	6.207	6.190	6.231	PV	223	3117	0.07%	0.007%
55	6.255	6.231	6.278	VV	340	4613	0.11%	0.010%
56	6.298	6.278	6.325	VV	550	6994	0.16%	0.015%
57	6.336	6.325	6.348	VV	100	945	0.02%	0.002%
58	6.362	6.348	6.406	VV	327	4164	0.10%	0.009%
59	6.436	6.406	6.507	VV	338	7912	0.18%	0.017%
60	6.550	6.507	6.584	PV	179	3574	0.08%	0.008%
61	6.611	6.584	6.625	PV	104	1322	0.03%	0.003%
62	6.654	6.625	6.701	PBA	5766	66441	1.54%	0.145%
63	6.735	6.701	6.760	BV	362	3786	0.09%	0.008%
64	6.774	6.760	6.787	PV	273	2327	0.05%	0.005%
65	6.804	6.787	6.823	VV	965	10490	0.24%	0.023%
66	6.836	6.823	6.860	VV	294	3719	0.09%	0.008%
67	6.880	6.860	6.922	PV	449	5588	0.13%	0.012%
68	6.934	6.922	6.960	PV	92	1295	0.03%	0.003%
69	6.981	6.960	7.003	VV	183	2234	0.05%	0.005%
70	7.017	7.003	7.029	PV	95	867	0.02%	0.002%
71	7.042	7.029	7.076	VV	103	1654	0.04%	0.004%
72	7.105	7.076	7.136	PV	501	6062	0.14%	0.013%
73	7.160	7.136	7.198	VV	609	12115	0.28%	0.026%
74	7.209	7.198	7.254	VV	482	10506	0.24%	0.023%
75	7.288	7.254	7.312	VV	887	14801	0.34%	0.032%
76	7.328	7.312	7.349	VV	196	3306	0.08%	0.007%
77	7.374	7.349	7.414	VV	443	8703	0.20%	0.019%
78	7.452	7.414	7.487	VV	2176	25893	0.60%	0.056%
79	7.514	7.487	7.551	VV	372	10043	0.23%	0.022%
80	7.563	7.551	7.574	VV	442	4999	0.12%	0.011%
81	7.600	7.574	7.645	VV	1477	27074	0.63%	0.059%
82	7.657	7.645	7.675	VV	418	5685	0.13%	0.012%
83	7.689	7.675	7.729	VV	521	7979	0.18%	0.017%
84	7.736	7.729	7.748	VV	135	1294	0.03%	0.003%
85	7.773	7.748	7.808	VV	210	4718	0.11%	0.010%
86	7.818	7.808	7.838	VV	158	1244	0.03%	0.003%
87	7.861	7.838	7.901	PV	906	11107	0.26%	0.024%
88	7.940	7.901	7.952	VV	236	4631	0.11%	0.010%
89	7.965	7.952	7.991	VV	256	3523	0.08%	0.008%

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90	8.029	7.991	8.044	VV	261	4823	0.11%	0.011%
91	8.062	8.044	8.073	VV	271	3594	0.08%	0.008%
92	8.084	8.073	8.104	VV	274	3207	0.07%	0.007%
93	8.127	8.104	8.150	PV	294	3889	0.09%	0.008%
94	8.172	8.150	8.206	VV	1008	14710	0.34%	0.032%
95	8.228	8.206	8.258	VV	1669	20863	0.48%	0.045%
96	8.266	8.258	8.284	VV	196	2319	0.05%	0.005%
97	8.297	8.284	8.319	VV	410	4674	0.11%	0.010%
98	8.349	8.319	8.363	PV	355	6321	0.15%	0.014%
99	8.389	8.363	8.447	VV	1047	29970	0.69%	0.065%
100	8.480	8.447	8.554	VV	5377	92949	2.15%	0.203%
101	8.584	8.554	8.611	VV	649	17536	0.41%	0.038%
102	8.631	8.611	8.654	VV	948	16699	0.39%	0.036%
103	8.671	8.654	8.693	VV	682	10951	0.25%	0.024%
104	8.710	8.693	8.747	VV	573	10710	0.25%	0.023%
105	8.764	8.747	8.801	VV	380	7329	0.17%	0.016%
106	8.810	8.801	8.819	VV	315	3168	0.07%	0.007%
107	8.861	8.819	8.879	VV	681	16741	0.39%	0.036%
108	8.936	8.879	8.948	VV	1066	30625	0.71%	0.067%
109	8.977	8.948	9.003	VV	2694	70836	1.64%	0.154%
110	9.017	9.003	9.068	VV	2942	72697	1.68%	0.159%
111	9.089	9.068	9.115	VV	1239	29183	0.67%	0.064%
112	9.133	9.115	9.152	VV	1001	19313	0.45%	0.042%
113	9.169	9.152	9.184	VV	1007	16957	0.39%	0.037%
114	9.218	9.184	9.284	VV	1955	80215	1.85%	0.175%
115	9.315	9.284	9.371	VV	3050	77378	1.79%	0.169%
116	9.389	9.371	9.417	VV	1120	23023	0.53%	0.050%
117	9.436	9.417	9.459	VV	944	17593	0.41%	0.038%
118	9.540	9.459	9.551	VV	930	43606	1.01%	0.095%
119	9.561	9.551	9.578	VV	856	12916	0.30%	0.028%
120	9.603	9.578	9.626	VV	1115	26584	0.61%	0.058%
121	9.671	9.626	9.714	VV	1522	53255	1.23%	0.116%
122	9.725	9.714	9.734	VV	990	10468	0.24%	0.023%
123	9.765	9.734	9.784	VV	1340	30079	0.70%	0.066%
124	9.813	9.784	9.834	VV	1221	29118	0.67%	0.063%
125	9.864	9.834	9.902	VV	2048	44869	1.04%	0.098%
126	9.929	9.902	9.937	VV	741	13978	0.32%	0.030%
127	9.961	9.937	9.974	VV	780	15395	0.36%	0.034%
128	10.007	9.974	10.057	VV	1499	48947	1.13%	0.107%
129	10.085	10.057	10.135	VV	3871	78638	1.82%	0.171%
130	10.183	10.135	10.218	VV	986	43016	0.99%	0.094%
131	10.239	10.218	10.269	VV	833	23596	0.55%	0.051%
132	10.317	10.269	10.331	VV	931	29594	0.68%	0.065%
133	10.402	10.331	10.417	VV	1107	49828	1.15%	0.109%
134	10.471	10.417	10.498	VV	2243	70806	1.64%	0.154%
135	10.555	10.498	10.600	VV	2727	108490	2.51%	0.237%
136	10.616	10.600	10.650	VV	1711	42234	0.98%	0.092%
137	10.683	10.650	10.698	VV	1617	39102	0.90%	0.085%
138	10.714	10.698	10.734	VV	1675	32918	0.76%	0.072%
139	10.755	10.734	10.784	VV	1887	46946	1.09%	0.102%
140	10.823	10.784	10.858	VV	3234	83157	1.92%	0.181%
141	10.892	10.858	10.919	VV	3145	78491	1.81%	0.171%

142	10.946	10.919	10.968	VV	2506	54455	1.26%	0.119%
143	10.980	10.968	11.014	VV	1403	36205	0.84%	0.079%
144	11.052	11.014	11.074	VV	1650	52826	1.22%	0.115%
145	11.085	11.074	11.122	VV	1429	37088	0.86%	0.081%
146	11.144	11.122	11.171	VV	1634	39422	0.91%	0.086%
147	11.233	11.171	11.268	VV	2908	111576	2.58%	0.243%
148	11.275	11.268	11.310	VV	1539	34673	0.80%	0.076%
149	11.329	11.310	11.341	VV	1478	24164	0.56%	0.053%
150	11.357	11.341	11.384	VV	1273	30597	0.71%	0.067%
151	11.414	11.384	11.432	VV	1490	34899	0.81%	0.076%
152	11.457	11.432	11.499	VV	4337	90344	2.09%	0.197%
153	11.524	11.499	11.564	VV	7319	124692	2.88%	0.272%
154	11.614	11.564	11.674	VV	3213	108341	2.50%	0.236%
155	11.690	11.674	11.702	VV	1095	17548	0.41%	0.038%
156	11.750	11.702	11.768	VV	1149	41310	0.96%	0.090%
157	11.817	11.768	11.862	VV	1627	69249	1.60%	0.151%
158	11.916	11.862	11.945	VV	1681	62298	1.44%	0.136%
159	11.962	11.945	11.969	VV	1264	16902	0.39%	0.037%
160	12.016	11.969	12.039	VV	1899	61090	1.41%	0.133%
161	12.055	12.039	12.108	VV	1173	42520	0.98%	0.093%
162	12.132	12.108	12.147	VV	1708	31964	0.74%	0.070%
163	12.193	12.147	12.254	VV	3595	114847	2.66%	0.250%
164	12.294	12.254	12.320	VV	1468	46834	1.08%	0.102%
165	12.330	12.320	12.372	VV	1299	32655	0.75%	0.071%
166	12.409	12.372	12.434	VV	1540	44378	1.03%	0.097%
167	12.474	12.434	12.543	VV	1515	76006	1.76%	0.166%
168	12.575	12.543	12.589	VV	1777	39776	0.92%	0.087%
169	12.602	12.589	12.631	VV	1703	35362	0.82%	0.077%
170	12.657	12.631	12.670	VV	1369	28321	0.65%	0.062%
171	12.690	12.670	12.729	VV	1888	41184	0.95%	0.090%
172	12.771	12.729	12.804	VV	2482	56775	1.31%	0.124%
173	12.831	12.804	12.906	VV	6342	120729	2.79%	0.263%
174	12.943	12.906	13.018	VV	1451	53657	1.24%	0.117%
175	13.043	13.018	13.058	VV	528	8853	0.20%	0.019%
176	13.086	13.058	13.135	VV	679	22528	0.52%	0.049%
177	13.155	13.135	13.174	VV	663	9882	0.23%	0.022%
178	13.192	13.174	13.200	VV	552	6130	0.14%	0.013%
179	13.224	13.200	13.239	VV	949	17127	0.40%	0.037%
180	13.280	13.239	13.421	VV	348887	4325345	100.00%	9.430%
181	13.442	13.421	13.464	VV	4566	71061	1.64%	0.155%
182	13.479	13.464	13.508	VV	2024	42711	0.99%	0.093%
183	13.518	13.508	13.571	VV	1480	37673	0.87%	0.082%
184	13.601	13.571	13.632	VV	1114	24635	0.57%	0.054%
185	13.663	13.632	13.684	VV	793	18994	0.44%	0.041%
186	13.712	13.684	13.766	VV	1253	37283	0.86%	0.081%
187	13.792	13.766	13.803	VV	458	9541	0.22%	0.021%
188	13.823	13.803	13.841	VV	621	11452	0.26%	0.025%
189	13.870	13.841	13.910	VV	909	22047	0.51%	0.048%
190	13.935	13.910	13.953	VV	674	12324	0.28%	0.027%
191	13.976	13.953	14.000	VV	1897	28858	0.67%	0.063%
192	14.027	14.000	14.062	VV	7681	110223	2.55%	0.240%
193	14.075	14.062	14.103	VV	782	13670	0.32%	0.030%
194	14.113	14.103	14.126	VV	410	3524	0.08%	0.008%

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195	14.178	14.126	14.216	VV	312	9017	0.21%	0.020%
196	14.251	14.216	14.281	PV	972	22632	0.52%	0.049%
197	14.297	14.281	14.311	VV	430	6841	0.16%	0.015%
198	14.324	14.311	14.341	VV	422	5952	0.14%	0.013%
199	14.352	14.341	14.367	VV	376	3719	0.09%	0.008%
200	14.387	14.367	14.398	VV	592	7313	0.17%	0.016%
201	14.439	14.398	14.454	VV	1263	25349	0.59%	0.055%
202	14.471	14.454	14.497	VV	1253	20632	0.48%	0.045%
203	14.532	14.497	14.561	VV	2152	31576	0.73%	0.069%
204	14.590	14.561	14.627	VV	4987	69327	1.60%	0.151%
205	14.650	14.627	14.686	VV	1084	21486	0.50%	0.047%
206	14.707	14.686	14.743	VV	723	14652	0.34%	0.032%
207	14.839	14.743	14.859	PV	1363	27490	0.64%	0.060%
208	14.875	14.859	14.894	VV	596	7549	0.17%	0.016%
209	14.908	14.894	14.924	VV	378	4466	0.10%	0.010%
210	14.938	14.924	14.951	VV	504	4515	0.10%	0.010%
211	14.986	14.951	15.025	VV	728	15251	0.35%	0.033%
212	15.042	15.025	15.060	VV	470	6899	0.16%	0.015%
213	15.085	15.060	15.103	VV	1286	18828	0.44%	0.041%
214	15.130	15.103	15.165	VV	8494	118288	2.73%	0.258%
215	15.175	15.165	15.193	VV	385	4619	0.11%	0.010%
216	15.205	15.193	15.224	VV	361	4182	0.10%	0.009%
217	15.264	15.224	15.288	PV	734	12306	0.28%	0.027%
218	15.325	15.288	15.344	VV	637	11262	0.26%	0.025%
219	15.381	15.344	15.411	VV	452	7963	0.18%	0.017%
220	15.435	15.411	15.487	VV	767	20750	0.48%	0.045%
221	15.515	15.487	15.537	PV	773	9210	0.21%	0.020%
222	15.558	15.537	15.619	PV	660	17569	0.41%	0.038%
223	15.648	15.619	15.720	VV	8551	128334	2.97%	0.280%
224	15.734	15.720	15.748	VV	645	7580	0.18%	0.017%
225	15.777	15.748	15.804	VV	2006	26842	0.62%	0.059%
226	15.832	15.804	15.850	PV	708	9990	0.23%	0.022%
227	15.866	15.850	15.891	VV	835	13024	0.30%	0.028%
228	15.908	15.891	15.921	VV	638	7647	0.18%	0.017%
229	15.969	15.921	15.989	VV	1054	24794	0.57%	0.054%
230	16.019	15.989	16.061	VV	613	16864	0.39%	0.037%
231	16.110	16.061	16.122	VV	1262	19252	0.45%	0.042%
232	16.148	16.122	16.179	VV	11983	165497	3.83%	0.361%
233	16.187	16.179	16.227	VV	1140	17479	0.40%	0.038%
234	16.242	16.227	16.258	VV	436	5749	0.13%	0.013%
235	16.272	16.258	16.291	PV	597	6953	0.16%	0.015%
236	16.332	16.291	16.368	VV	2182	49914	1.15%	0.109%
237	16.466	16.368	16.490	VV	1954	95223	2.20%	0.208%
238	16.506	16.490	16.551	VV	2058	41679	0.96%	0.091%
239	16.630	16.551	16.661	PV	12215	200018	4.62%	0.436%
240	16.742	16.661	16.751	VV	1829	55791	1.29%	0.122%
241	16.789	16.751	16.808	VV	2738	70640	1.63%	0.154%
242	16.846	16.808	16.857	VV	2257	60355	1.40%	0.132%
243	16.869	16.857	16.914	VV	1880	53746	1.24%	0.117%
244	16.935	16.914	16.949	VV	1951	31761	0.73%	0.069%
245	16.972	16.949	16.994	VV	2238	42265	0.98%	0.092%
246	17.010	16.994	17.036	VV	989	16964	0.39%	0.037%

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247	17.097	17.036	17.134	VV	16801	387967	8.97%	0.846%
248	17.149	17.134	17.214	VV	4748	121002	2.80%	0.264%
249	17.224	17.214	17.233	VV	1433	15208	0.35%	0.033%
250	17.271	17.233	17.297	VV	4511	122133	2.82%	0.266%
251	17.332	17.297	17.354	VV	6123	142048	3.28%	0.310%
252	17.428	17.354	17.451	VV	3428	159508	3.69%	0.348%
253	17.505	17.451	17.524	VV	9357	222262	5.14%	0.485%
254	17.547	17.524	17.595	VV	17272	361286	8.35%	0.788%
255	17.612	17.595	17.628	VV	5704	90641	2.10%	0.198%
256	17.652	17.628	17.687	VV	9052	201366	4.66%	0.439%
257	17.706	17.687	17.727	VV	3960	82548	1.91%	0.180%
258	17.744	17.727	17.793	VV	3910	108598	2.51%	0.237%
259	17.829	17.793	17.851	VV	4291	106469	2.46%	0.232%
260	17.880	17.851	17.904	VV	7419	156434	3.62%	0.341%
261	17.982	17.904	18.009	VV	26248	658470	15.22%	1.436%
262	18.023	18.009	18.054	VV	5801	112972	2.61%	0.246%
263	18.121	18.054	18.198	VV	29338	850146	19.65%	1.854%
264	18.217	18.198	18.236	VV	4487	98046	2.27%	0.214%
265	18.264	18.236	18.282	VV	6437	141434	3.27%	0.308%
266	18.325	18.282	18.374	VV	8426	367321	8.49%	0.801%
267	18.406	18.374	18.438	VV	24204	435022	10.06%	0.948%
268	18.489	18.438	18.512	VV	24869	528528	12.22%	1.152%
269	18.525	18.512	18.588	VV	10593	323513	7.48%	0.705%
270	18.612	18.588	18.625	VV	5653	110979	2.57%	0.242%
271	18.671	18.625	18.700	VV	7346	282193	6.52%	0.615%
272	18.720	18.700	18.744	VV	6497	152574	3.53%	0.333%
273	18.814	18.744	18.854	VV	28286	717927	16.60%	1.565%
274	18.867	18.854	18.883	VV	6153	102359	2.37%	0.223%
275	18.911	18.883	18.934	VV	21668	391323	9.05%	0.853%
276	18.959	18.934	19.027	VV	19661	622855	14.40%	1.358%
277	19.093	19.027	19.136	VV	9510	533149	12.33%	1.162%
278	19.147	19.136	19.157	VV	7102	85429	1.98%	0.186%
279	19.212	19.157	19.276	VV	31252	1017831	23.53%	2.219%
280	19.310	19.276	19.358	VV	15099	507673	11.74%	1.107%
281	19.402	19.358	19.438	VV	11742	484618	11.20%	1.057%
282	19.462	19.438	19.484	VV	10101	272316	6.30%	0.594%
283	19.507	19.484	19.528	VV	9677	241079	5.57%	0.526%
284	19.547	19.528	19.557	VV	8587	145366	3.36%	0.317%
285	19.599	19.557	19.684	VV	38628	1302133	30.10%	2.839%
286	19.716	19.684	19.768	VV	18829	642438	14.85%	1.401%
287	19.842	19.768	19.854	VV	13374	629707	14.56%	1.373%
288	19.881	19.854	19.911	VV	13583	431265	9.97%	0.940%
289	19.974	19.911	19.996	VV	38416	1031691	23.85%	2.249%
290	20.014	19.996	20.059	VV	23370	679151	15.70%	1.481%
291	20.090	20.059	20.101	VV	15858	358957	8.30%	0.783%
292	20.128	20.101	20.171	VV	19233	690485	15.96%	1.505%
293	20.210	20.171	20.238	VV	18765	680907	15.74%	1.485%
294	20.247	20.238	20.301	VV	17748	634086	14.66%	1.382%
295	20.339	20.301	20.368	VV	40978	1038755	24.02%	2.265%
296	20.401	20.368	20.425	VV	25142	721871	16.69%	1.574%
297	20.441	20.425	20.464	VV	20055	457572	10.58%	0.998%
298	20.540	20.464	20.563	VV	24802	1243275	28.74%	2.711%
299	20.573	20.563	20.594	VV	20848	380546	8.80%	0.830%

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300	20.608	20.594	20.648	VV	21644	643542	14.88%	1.403%
301	20.693	20.648	20.751	VV	43089	1576642	36.45%	3.438%
302	20.798	20.751	20.854	VV	24073	1309860	30.28%	2.856%
303	20.922	20.854	20.990	VV	24561	1703611	39.39%	3.714%
304	21.002	20.990	21.010	VV	18569	220666	5.10%	0.481%
305	21.058	21.010	21.124	VV	38154	1506782	34.84%	3.285%
306	21.172	21.124	21.204	VV	17995	788538	18.23%	1.719%
307	21.216	21.204	21.222	VV	16252	180317	4.17%	0.393%
308	21.252	21.222	21.278	VV	16783	546672	12.64%	1.192%
309	21.287	21.278	21.299	VV	15373	184631	4.27%	0.403%
310	21.308	21.299	21.331	VV	14808	279750	6.47%	0.610%
311	21.345	21.331	21.406	VV	13716	564491	13.05%	1.231%
312	21.474	21.406	21.538	VV	24721	1097551	25.37%	2.393%
313	21.594	21.538	21.645	VV	11866	622566	14.39%	1.357%
314	21.660	21.645	21.738	VV	8553	426757	9.87%	0.930%
315	21.755	21.738	21.798	VV	7225	225077	5.20%	0.491%
316	21.824	21.798	21.869	VV	5811	202798	4.69%	0.442%
317	21.939	21.869	22.031	VV	15910	577786	13.36%	1.260%
318	22.038	22.031	22.045	VV	1245	8512	0.20%	0.019%
319	22.079	22.045	22.141	VV	3307	83267	1.93%	0.182%

Sum of corrected areas: 45865821

Aliphatic EPH 110724.M Sat Nov 16 11:27:15 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-1		SDG No.:	P4839	
Lab Sample ID:	P4839-17		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.9	
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
FF015063.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.36	U	0.36	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	3.12		0.41	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.22		1.14	1.98	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.69	J	2.38	3.17	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.3		40 - 140	115%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	57.0		40 - 140	114%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.4		40 - 140	75%	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:	P4839-17	Acq On:	15 Nov 2024 16:08
Client Sample ID:	EX-4-TPH-1	Operator:	YP\AJ
Data file:	FF015063.D	Misc:	
Instrument:	FID_F	ALS Vial:	70
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	524898	3.837	200	ug/ml
Aromatic C12-C16	6.372	9.062	5303764	39.281	300	ug/ml
Aromatic C16-C21	9.063	13.374	3572428	27.933	500	ug/ml
Aromatic C21-C36	13.375	18.817	4131495	33.9	800	ug/ml
Aromatic EPH	4.507	18.817	13532585	104.951		ug/ml
2-Bromonaphthalene (SURR)	7.992	7.992	6999016	57.31		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	4657872	57.05		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	5016750	37.4		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015063.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:08
Operator : YP\AJ
Sample : P4839-17
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-1

Integration File: autoint1.e
Quant Time: Nov 18 00:25:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.992	6999016	57.314 ug/ml
Spiked Amount 50.000		Recovery = 114.63%	
6) S 2-Flurobiphenyl (SURR)	8.865	4657872	57.053 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 114.11%	
11) S ortho-Terphenyl (SURR)	11.927	5016750	37.398 ug/ml
Spiked Amount 50.000		Recovery = 74.80%	
Target Compounds			

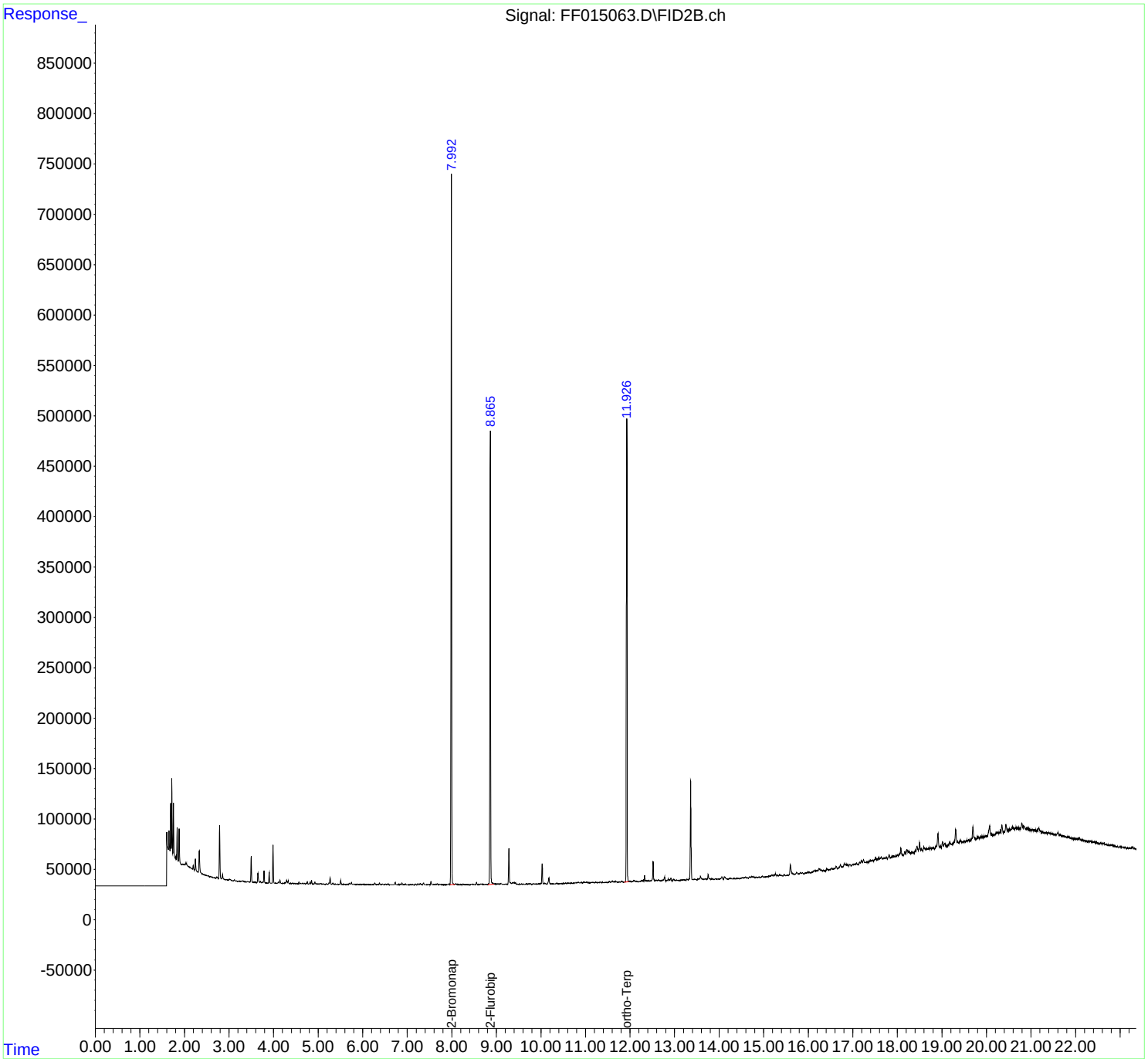
(f)=RT Delta > 1/2 Window (m)=manual int.

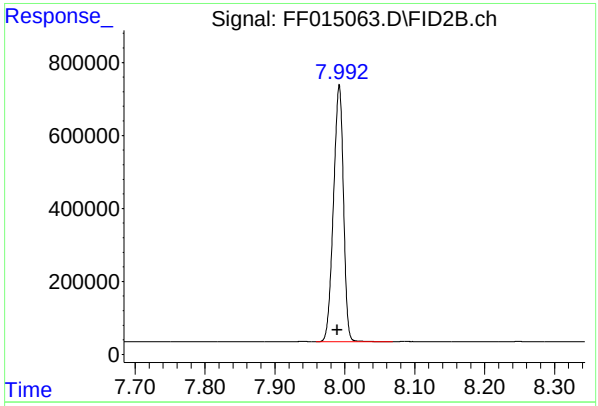
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015063.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:08
Operator : YP\AJ
Sample : P4839-17
Misc :
ALS Vial : 70 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-1

Integration File: autoint1.e
Quant Time: Nov 18 00:25:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

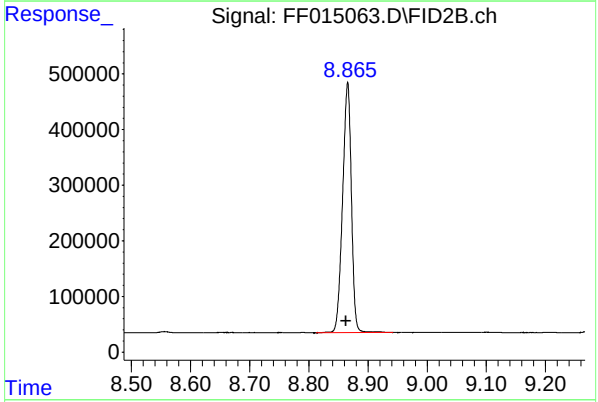




#4 2-Bromonaphthalene (SURR)

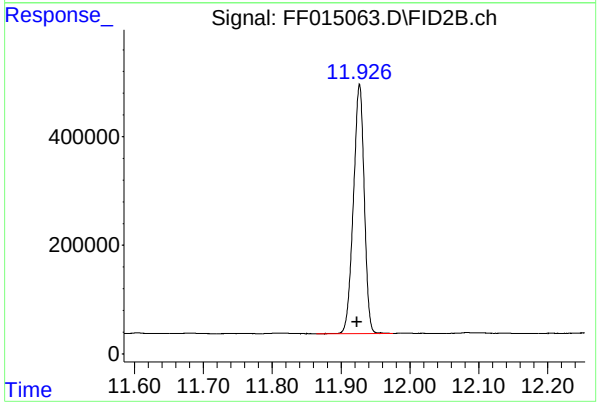
R.T.: 7.992 min
Delta R.T.: 0.003 min
Response: 6999016
Conc: 57.31 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-1



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.003 min
Response: 4657872
Conc: 57.05 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.004 min
Response: 5016750
Conc: 37.40 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015063.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:08
Sample : P4839-17
Misc :
ALS Vial : 70 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.428	4.400	4.443	BV	574	4296	0.06%	0.017%
2	4.454	4.443	4.470	PV	216	1984	0.03%	0.008%
3	4.484	4.470	4.500	VV	253	2911	0.04%	0.011%
4	4.514	4.500	4.530	VV	200	2211	0.03%	0.009%
5	4.569	4.542	4.592	PV	1942	21466	0.31%	0.084%
6	4.607	4.592	4.624	VV	843	8841	0.13%	0.035%
7	4.653	4.624	4.672	VV	1039	13665	0.19%	0.053%
8	4.695	4.672	4.712	VV	566	7459	0.11%	0.029%
9	4.734	4.712	4.742	PV	860	7912	0.11%	0.031%
10	4.757	4.742	4.780	VV	2355	25320	0.36%	0.099%
11	4.791	4.780	4.802	VV	186	1654	0.02%	0.006%
12	4.819	4.802	4.835	VV	1859	18774	0.27%	0.073%
13	4.853	4.835	4.901	VV	3758	40641	0.58%	0.159%
14	4.928	4.901	4.958	VV	2286	27204	0.39%	0.106%
15	4.977	4.958	5.012	VV	506	9604	0.14%	0.038%
16	5.045	5.012	5.053	VV	564	8881	0.13%	0.035%
17	5.061	5.053	5.091	VV	705	9613	0.14%	0.038%
18	5.102	5.091	5.137	VV	431	6645	0.09%	0.026%
19	5.142	5.137	5.160	VV	160	1432	0.02%	0.006%
20	5.191	5.160	5.217	VV	480	8333	0.12%	0.033%
21	5.243	5.217	5.251	VV	1341	13543	0.19%	0.053%
22	5.269	5.251	5.302	VV	6601	80431	1.15%	0.314%
23	5.330	5.302	5.349	VV	1357	18046	0.26%	0.071%
24	5.355	5.349	5.370	VV	389	2768	0.04%	0.011%
25	5.382	5.370	5.422	VV	373	4664	0.07%	0.018%
26	5.438	5.422	5.455	PV	164	1735	0.02%	0.007%
27	5.475	5.455	5.489	VV	345	4339	0.06%	0.017%
28	5.507	5.489	5.545	VV	3904	41749	0.60%	0.163%
29	5.561	5.545	5.600	VV	256	4648	0.07%	0.018%
30	5.648	5.622	5.657	VV	329	3128	0.04%	0.012%
31	5.664	5.657	5.682	VV	298	3308	0.05%	0.013%
32	5.702	5.682	5.717	PV	1442	16234	0.23%	0.063%
33	5.748	5.717	5.769	VV	2077	29408	0.42%	0.115%
34	5.777	5.769	5.794	VV	268	3180	0.05%	0.012%
35	5.807	5.794	5.831	VV	587	6958	0.10%	0.027%
36	5.836	5.831	5.860	VV	107	1576	0.02%	0.006%

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37	5.894	5.860	5.920	VV	415	8090	0.12%	0.032%
38	5.963	5.933	5.983	VV	348	5122	0.07%	0.020%
39	6.015	5.983	6.037	VV	405	7434	0.11%	0.029%
40	6.053	6.037	6.069	VV	419	5369	0.08%	0.021%
41	6.071	6.069	6.086	VV	198	1479	0.02%	0.006%
42	6.138	6.126	6.161	VV	133	1950	0.03%	0.008%
43	6.178	6.161	6.196	VV	236	3265	0.05%	0.013%
44	6.216	6.196	6.247	VV	212	4280	0.06%	0.017%
45	6.272	6.247	6.309	VV	1844	24502	0.35%	0.096%
46	6.334	6.318	6.358	VV	592	8037	0.11%	0.031%
47	6.377	6.358	6.401	VV	1743	19577	0.28%	0.077%
48	6.411	6.401	6.417	VV	196	1688	0.02%	0.007%
49	6.445	6.426	6.468	VV	690	9236	0.13%	0.036%
50	6.515	6.468	6.534	VV	626	13381	0.19%	0.052%
51	6.537	6.534	6.552	VV	281	2253	0.03%	0.009%
52	6.570	6.552	6.591	VV	922	11107	0.16%	0.043%
53	6.623	6.591	6.634	PV	216	2735	0.04%	0.011%
54	6.638	6.634	6.656	VV	179	2008	0.03%	0.008%
55	6.660	6.656	6.709	VV	156	3675	0.05%	0.014%
56	6.731	6.709	6.755	VV	2685	29253	0.42%	0.114%
57	6.818	6.761	6.837	VV	884	13775	0.20%	0.054%
58	6.852	6.837	6.867	VV	657	7202	0.10%	0.028%
59	6.884	6.867	6.906	VV	1873	19862	0.28%	0.078%
60	6.919	6.906	6.939	VV	461	5233	0.07%	0.020%
61	6.960	6.939	6.979	VV	1114	11175	0.16%	0.044%
62	7.001	6.979	7.031	VV	253	4737	0.07%	0.019%
63	7.070	7.031	7.095	PV	310	6268	0.09%	0.024%
64	7.109	7.095	7.125	VV	348	4152	0.06%	0.016%
65	7.137	7.125	7.157	VV	244	2983	0.04%	0.012%
66	7.186	7.157	7.205	VV	932	11090	0.16%	0.043%
67	7.239	7.205	7.271	VV	1191	25502	0.36%	0.100%
68	7.291	7.271	7.337	VV	1034	25253	0.36%	0.099%
69	7.367	7.337	7.390	VV	2000	28813	0.41%	0.113%
70	7.398	7.390	7.401	VV	208	1127	0.02%	0.004%
71	7.407	7.401	7.412	VV	254	1304	0.02%	0.005%
72	7.423	7.412	7.435	VV	288	2914	0.04%	0.011%
73	7.451	7.435	7.465	VV	343	4589	0.07%	0.018%
74	7.475	7.465	7.489	VV	378	4277	0.06%	0.017%
75	7.501	7.489	7.512	VV	394	4198	0.06%	0.016%
76	7.533	7.512	7.562	VV	3310	40060	0.57%	0.157%
77	7.591	7.562	7.605	VV	566	9633	0.14%	0.038%
78	7.612	7.605	7.626	VV	471	4447	0.06%	0.017%
79	7.641	7.626	7.655	VV	610	7254	0.10%	0.028%
80	7.675	7.655	7.697	VV	1201	15901	0.23%	0.062%
81	7.713	7.697	7.719	VV	350	3225	0.05%	0.013%
82	7.741	7.719	7.755	VV	524	7988	0.11%	0.031%
83	7.768	7.755	7.791	VV	734	8033	0.11%	0.031%
84	7.803	7.791	7.814	PV	123	1011	0.01%	0.004%
85	7.835	7.829	7.877	VV	178	2912	0.04%	0.011%
86	7.910	7.877	7.922	VV	535	7702	0.11%	0.030%
87	7.940	7.922	7.959	VV	1063	12428	0.18%	0.049%
88	7.992	7.959	8.068	VV	704543	7015088	100.00%	27.416%
89	8.086	8.068	8.155	VV	926	27800	0.40%	0.109%

90	8.164	8.155	8.189	VV	418	5170	0.07%	0.020%
91	8.203	8.189	8.227	VV	392	4936	0.07%	0.019%
92	8.249	8.227	8.274	PV	906	11973	0.17%	0.047%
93	8.277	8.274	8.294	VV	287	2827	0.04%	0.011%
94	8.304	8.294	8.320	VV	320	3787	0.05%	0.015%
95	8.336	8.320	8.366	VV	363	8641	0.12%	0.034%
96	8.375	8.366	8.391	VV	425	3981	0.06%	0.016%
97	8.450	8.406	8.468	VV	708	15184	0.22%	0.059%
98	8.479	8.468	8.492	VV	564	6693	0.10%	0.026%
99	8.504	8.492	8.525	VV	481	6043	0.09%	0.024%
100	8.556	8.525	8.580	VV	2363	29198	0.42%	0.114%
101	8.588	8.580	8.601	VV	304	3093	0.04%	0.012%
102	8.616	8.601	8.628	VV	363	4157	0.06%	0.016%
103	8.649	8.628	8.687	VV	688	17651	0.25%	0.069%
104	8.700	8.687	8.732	VV	574	10587	0.15%	0.041%
105	8.755	8.732	8.773	VV	632	8551	0.12%	0.033%
106	8.790	8.773	8.813	VV	645	7627	0.11%	0.030%
107	8.866	8.813	8.908	PV	449393	4652173	66.32%	18.181%
108	8.918	8.908	8.951	VV	1884	29497	0.42%	0.115%
109	8.966	8.951	8.978	VV	676	9906	0.14%	0.039%
110	9.018	8.978	9.035	VV	976	24220	0.35%	0.095%
111	9.044	9.035	9.060	VV	781	10108	0.14%	0.040%
112	9.071	9.060	9.079	VV	770	8221	0.12%	0.032%
113	9.099	9.079	9.107	VV	1057	13612	0.19%	0.053%
114	9.113	9.107	9.147	VV	1012	13260	0.19%	0.052%
115	9.162	9.147	9.192	VV	507	10299	0.15%	0.040%
116	9.209	9.192	9.240	VV	610	11738	0.17%	0.046%
117	9.284	9.240	9.347	VV	35929	418203	5.96%	1.634%
118	9.362	9.347	9.384	VV	1987	33033	0.47%	0.129%
119	9.399	9.384	9.420	VV	2271	35488	0.51%	0.139%
120	9.433	9.420	9.453	VV	1755	21771	0.31%	0.085%
121	9.471	9.453	9.501	VV	599	7589	0.11%	0.030%
122	9.524	9.501	9.550	PV	484	7617	0.11%	0.030%
123	9.565	9.550	9.591	VV	453	7247	0.10%	0.028%
124	9.610	9.591	9.639	VV	587	9214	0.13%	0.036%
125	9.668	9.639	9.702	PV	598	11279	0.16%	0.044%
126	9.713	9.702	9.728	VV	292	3339	0.05%	0.013%
127	9.748	9.728	9.798	VV	967	17206	0.25%	0.067%
128	9.829	9.798	9.864	VV	632	13253	0.19%	0.052%
129	9.888	9.875	9.913	VV	423	5672	0.08%	0.022%
130	9.945	9.913	9.977	VV	433	9132	0.13%	0.036%
131	9.998	9.977	10.008	VV	936	11062	0.16%	0.043%
132	10.029	10.008	10.061	VV	20180	215578	3.07%	0.843%
133	10.081	10.061	10.130	VV	787	18197	0.26%	0.071%
134	10.180	10.140	10.225	VV	6235	93353	1.33%	0.365%
135	10.233	10.225	10.247	VV	366	3664	0.05%	0.014%
136	10.252	10.247	10.282	VV	253	4794	0.07%	0.019%
137	10.288	10.282	10.315	VV	143	1426	0.02%	0.006%
138	10.336	10.315	10.345	VV	353	3746	0.05%	0.015%
139	10.358	10.345	10.380	VV	914	9304	0.13%	0.036%
140	10.414	10.380	10.435	PV	346	6717	0.10%	0.026%
141	10.442	10.435	10.454	VV	201	1617	0.02%	0.006%

142	10.495	10.454	10.531	VV	524	14028	0.20%	0.055%
143	10.552	10.531	10.572	VV	700	10516	0.15%	0.041%
144	10.599	10.572	10.614	VV	733	12129	0.17%	0.047%
145	10.633	10.614	10.660	VV	706	12181	0.17%	0.048%
146	10.682	10.660	10.727	VV	778	16566	0.24%	0.065%
147	10.769	10.727	10.774	VV	596	11205	0.16%	0.044%
148	10.787	10.774	10.795	VV	653	7393	0.11%	0.029%
149	10.826	10.795	10.839	VV	977	21192	0.30%	0.083%
150	10.853	10.839	10.872	VV	1010	14347	0.20%	0.056%
151	10.904	10.872	10.940	VV	1033	24161	0.34%	0.094%
152	10.978	10.940	11.010	VV	1203	32953	0.47%	0.129%
153	11.031	11.010	11.054	VV	1278	22146	0.32%	0.087%
154	11.064	11.054	11.101	VV	591	11687	0.17%	0.046%
155	11.123	11.101	11.137	VV	546	8827	0.13%	0.034%
156	11.153	11.137	11.199	VV	841	17066	0.24%	0.067%
157	11.227	11.199	11.248	VV	902	15491	0.22%	0.061%
158	11.255	11.248	11.280	VV	382	5737	0.08%	0.022%
159	11.291	11.280	11.309	VV	306	3473	0.05%	0.014%
160	11.334	11.309	11.354	VV	909	15474	0.22%	0.060%
161	11.358	11.354	11.402	VV	380	6405	0.09%	0.025%
162	11.463	11.428	11.485	VV	482	8696	0.12%	0.034%
163	11.536	11.485	11.561	PV	1341	22540	0.32%	0.088%
164	11.579	11.561	11.584	VV	682	6876	0.10%	0.027%
165	11.605	11.584	11.622	VV	1791	24801	0.35%	0.097%
166	11.636	11.622	11.654	VV	715	11634	0.17%	0.045%
167	11.679	11.654	11.719	VV	1330	26286	0.37%	0.103%
168	11.739	11.719	11.748	VV	443	5043	0.07%	0.020%
169	11.763	11.748	11.781	VV	459	6056	0.09%	0.024%
170	11.814	11.781	11.874	VV	1022	22806	0.33%	0.089%
171	11.927	11.874	11.974	PV	459989	5030922	71.72%	19.661%
172	11.990	11.974	12.010	VV	1100	15771	0.22%	0.062%
173	12.018	12.010	12.044	VV	611	7543	0.11%	0.029%
174	12.083	12.044	12.097	VV	1720	28745	0.41%	0.112%
175	12.105	12.097	12.122	VV	1328	13638	0.19%	0.053%
176	12.136	12.122	12.169	VV	666	10988	0.16%	0.043%
177	12.176	12.169	12.185	VV	194	1105	0.02%	0.004%
178	12.206	12.185	12.222	VV	362	5355	0.08%	0.021%
179	12.264	12.222	12.269	VV	1201	20529	0.29%	0.080%
180	12.272	12.269	12.284	VV	1152	7769	0.11%	0.030%
181	12.325	12.284	12.349	VV	6013	85934	1.22%	0.336%
182	12.363	12.349	12.395	VV	1347	21515	0.31%	0.084%
183	12.411	12.395	12.446	VV	844	18571	0.26%	0.073%
184	12.459	12.446	12.469	VV	649	7305	0.10%	0.029%
185	12.517	12.469	12.565	VV	19784	267339	3.81%	1.045%
186	12.581	12.565	12.596	VV	1342	20061	0.29%	0.078%
187	12.603	12.596	12.619	VV	962	11213	0.16%	0.044%
188	12.639	12.619	12.675	VV	1433	30756	0.44%	0.120%
189	12.714	12.675	12.732	VV	968	23160	0.33%	0.091%
190	12.774	12.732	12.801	VV	4044	73353	1.05%	0.287%
191	12.806	12.801	12.810	VV	402	2025	0.03%	0.008%
192	12.817	12.810	12.825	VV	444	3450	0.05%	0.013%
193	12.831	12.825	12.833	VV	414	1889	0.03%	0.007%
194	12.856	12.833	12.879	VV	2437	35735	0.51%	0.140%

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195	12.916	12.879	12.947	VV	2883	54377	0.78%	0.213%
196	12.980	12.947	13.017	VV	1733	35595	0.51%	0.139%
197	13.049	13.017	13.067	VV	800	17810	0.25%	0.070%
198	13.075	13.067	13.089	VV	332	3884	0.06%	0.015%
199	13.102	13.089	13.124	VV	479	5412	0.08%	0.021%
200	13.166	13.124	13.182	VV	894	19755	0.28%	0.077%
201	13.187	13.182	13.192	VV	578	3319	0.05%	0.013%
202	13.216	13.192	13.247	VV	1146	21114	0.30%	0.083%
203	13.272	13.247	13.301	PV	1202	23533	0.34%	0.092%
204	13.323	13.301	13.331	VV	1560	19684	0.28%	0.077%
205	13.361	13.331	13.392	VV	98943	1209850	17.25%	4.728%
206	13.399	13.392	13.420	VV	895	13195	0.19%	0.052%
207	13.439	13.420	13.458	VV	1225	20690	0.29%	0.081%
208	13.462	13.458	13.499	VV	929	16662	0.24%	0.065%
209	13.503	13.499	13.505	VV	454	1591	0.02%	0.006%
210	13.541	13.505	13.559	VV	1353	32680	0.47%	0.128%
211	13.581	13.559	13.630	VV	3916	78553	1.12%	0.307%
212	13.647	13.630	13.656	VV	693	9504	0.14%	0.037%
213	13.678	13.656	13.682	VV	987	11594	0.17%	0.045%
214	13.694	13.682	13.715	VV	1052	16223	0.23%	0.063%
215	13.726	13.715	13.730	VV	643	4975	0.07%	0.019%
216	13.752	13.730	13.781	VV	5596	72405	1.03%	0.283%
217	13.792	13.781	13.839	VV	1039	27512	0.39%	0.108%
218	13.855	13.839	13.889	VV	852	14030	0.20%	0.055%
219	13.908	13.889	13.920	VV	944	11808	0.17%	0.046%
220	13.930	13.920	13.949	VV	932	11564	0.16%	0.045%
221	13.983	13.949	13.999	VV	727	14484	0.21%	0.057%
222	14.004	13.999	14.007	VV	445	1803	0.03%	0.007%
223	14.063	14.007	14.090	VV	2608	56952	0.81%	0.223%
224	14.119	14.090	14.166	VV	2555	59934	0.85%	0.234%
225	14.175	14.166	14.200	VV	520	7253	0.10%	0.028%
226	14.234	14.200	14.251	VV	794	17118	0.24%	0.067%
227	14.264	14.251	14.289	VV	830	11270	0.16%	0.044%
228	14.316	14.289	14.333	PV	725	9596	0.14%	0.038%
229	14.347	14.333	14.367	VV	488	6470	0.09%	0.025%
230	14.376	14.367	14.380	VV	368	1992	0.03%	0.008%
231	14.384	14.380	14.392	VV	339	2054	0.03%	0.008%
232	14.410	14.392	14.431	VV	530	7970	0.11%	0.031%
233	14.450	14.444	14.459	VV	210	1672	0.02%	0.007%
234	14.475	14.459	14.491	VV	730	8902	0.13%	0.035%
235	14.516	14.491	14.537	VV	1054	19995	0.29%	0.078%
236	14.550	14.537	14.570	VV	1047	15049	0.21%	0.059%
237	14.591	14.570	14.611	VV	1544	24113	0.34%	0.094%
238	14.630	14.611	14.654	VV	620	10020	0.14%	0.039%
239	14.677	14.654	14.702	VV	1312	24491	0.35%	0.096%
240	14.733	14.702	14.750	VV	1775	34997	0.50%	0.137%
241	14.777	14.750	14.797	VV	1510	29191	0.42%	0.114%
242	14.805	14.797	14.822	VV	719	8170	0.12%	0.032%
243	14.839	14.822	14.862	VV	893	12553	0.18%	0.049%
244	14.891	14.862	14.921	PV	780	14557	0.21%	0.057%
245	14.966	14.921	14.984	VV	1154	23751	0.34%	0.093%
246	14.998	14.984	15.017	VV	898	10698	0.15%	0.042%

rteres

247	15.031	15.017	15.045	VV	534	4967	0.07%	0.019%
248	15.092	15.045	15.097	VV	727	12898	0.18%	0.050%
249	15.121	15.097	15.133	VV	959	15788	0.23%	0.062%
250	15.147	15.133	15.162	VV	1273	15967	0.23%	0.062%
251	15.183	15.162	15.202	VV	1906	33570	0.48%	0.131%
252	15.216	15.202	15.233	VV	2134	26742	0.38%	0.105%
253	15.262	15.233	15.276	VV	2774	44833	0.64%	0.175%
254	15.288	15.276	15.332	VV	1639	35345	0.50%	0.138%
255	15.353	15.332	15.369	VV	1429	22019	0.31%	0.086%
256	15.389	15.369	15.419	VV	1103	19672	0.28%	0.077%
257	15.461	15.419	15.500	PV	1154	25323	0.36%	0.099%
258	15.511	15.500	15.516	PV	477	3179	0.05%	0.012%
259	15.530	15.516	15.555	VV	691	8028	0.11%	0.031%
260	15.597	15.555	15.655	PV	10527	216612	3.09%	0.847%
261	15.664	15.655	15.684	VV	1227	15690	0.22%	0.061%
262	15.703	15.684	15.712	VV	743	10316	0.15%	0.040%
263	15.738	15.712	15.770	VV	2332	49026	0.70%	0.192%
264	15.782	15.770	15.792	VV	644	6406	0.09%	0.025%
265	15.823	15.792	15.841	VV	2010	33536	0.48%	0.131%
266	15.870	15.841	15.895	VV	1575	30746	0.44%	0.120%
267	15.944	15.905	15.960	VV	1011	21285	0.30%	0.083%
268	15.992	15.960	16.002	VV	1494	26786	0.38%	0.105%
269	16.018	16.002	16.035	VV	926	14835	0.21%	0.058%
270	16.040	16.035	16.044	VV	268	1209	0.02%	0.005%
271	16.068	16.044	16.089	VV	850	14894	0.21%	0.058%
272	16.123	16.089	16.139	VV	1789	36468	0.52%	0.143%
273	16.151	16.139	16.170	VV	1917	29408	0.42%	0.115%
274	16.204	16.170	16.218	VV	1939	46793	0.67%	0.183%
275	16.242	16.218	16.262	VV	3739	71673	1.02%	0.280%
276	16.264	16.262	16.285	VV	2956	28844	0.41%	0.113%
277	16.298	16.285	16.320	VV	1782	29704	0.42%	0.116%
278	16.327	16.320	16.345	VV	1210	15896	0.23%	0.062%
279	16.352	16.345	16.374	VV	1044	11843	0.17%	0.046%
280	16.381	16.374	16.385	VV	326	1381	0.02%	0.005%
281	16.427	16.385	16.449	PV	1956	49523	0.71%	0.194%
282	16.460	16.449	16.471	VV	1217	12368	0.18%	0.048%
283	16.488	16.471	16.502	VV	955	15068	0.21%	0.059%
284	16.529	16.502	16.554	VV	1988	41336	0.59%	0.162%
285	16.573	16.554	16.595	VV	1192	20817	0.30%	0.081%
286	16.624	16.595	16.654	VV	3009	55680	0.79%	0.218%
287	16.672	16.654	16.679	PV	741	5937	0.08%	0.023%
288	16.722	16.679	16.748	VV	3937	77288	1.10%	0.302%
289	16.756	16.748	16.773	VV	1340	16876	0.24%	0.066%
290	16.809	16.773	16.830	VV	3952	83585	1.19%	0.327%
291	16.852	16.830	16.872	VV	2909	58109	0.83%	0.227%
292	16.892	16.872	16.906	VV	2670	39559	0.56%	0.155%
293	16.936	16.906	16.974	VV	2035	48611	0.69%	0.190%
294	17.000	16.974	17.019	VV	1978	33025	0.47%	0.129%
295	17.030	17.019	17.050	VV	1631	22133	0.32%	0.086%
296	17.053	17.050	17.061	VV	1148	5858	0.08%	0.023%
297	17.081	17.061	17.125	VV	1648	34019	0.48%	0.133%
298	17.157	17.125	17.171	VV	2117	37466	0.53%	0.146%
299	17.188	17.171	17.217	VV	3627	67193	0.96%	0.263%

rteres

300	17.241	17.217	17.275	VV	3602	75486	1.08%	0.295%
301	17.294	17.275	17.319	VV	1012	20175	0.29%	0.079%
302	17.344	17.319	17.359	VV	1042	15495	0.22%	0.061%
303	17.381	17.359	17.386	VV	1157	13254	0.19%	0.052%
304	17.397	17.386	17.414	VV	1944	25645	0.37%	0.100%
305	17.442	17.414	17.468	VV	1848	45546	0.65%	0.178%
306	17.512	17.468	17.542	VV	2806	85703	1.22%	0.335%
307	17.581	17.542	17.597	VV	2950	66928	0.95%	0.262%
308	17.610	17.597	17.617	VV	2235	21883	0.31%	0.086%
309	17.638	17.617	17.658	VV	3287	54542	0.78%	0.213%
310	17.675	17.658	17.680	VV	1302	14852	0.21%	0.058%
311	17.689	17.680	17.702	VV	1367	14619	0.21%	0.057%
312	17.707	17.702	17.715	VV	1314	7246	0.10%	0.028%
313	17.733	17.715	17.736	VV	1220	11490	0.16%	0.045%
314	17.756	17.736	17.780	VV	2251	32663	0.47%	0.128%
315	17.814	17.780	17.845	VV	3844	67662	0.96%	0.264%
316	17.851	17.845	17.856	VV	560	3469	0.05%	0.014%
317	17.877	17.856	17.889	VV	1511	20114	0.29%	0.079%
318	17.911	17.889	17.925	VV	1625	23760	0.34%	0.093%
319	17.933	17.925	17.952	VV	1198	10808	0.15%	0.042%
320	17.970	17.952	17.979	VV	1512	16955	0.24%	0.066%
321	17.984	17.979	17.987	VV	1409	5690	0.08%	0.022%
322	17.998	17.987	18.019	VV	1758	24676	0.35%	0.096%
323	18.049	18.019	18.053	VV	2254	34269	0.49%	0.134%
324	18.078	18.053	18.115	VV	8020	137714	1.96%	0.538%
325	18.126	18.115	18.139	VV	923	9403	0.13%	0.037%
326	18.168	18.139	18.187	PV	3691	57201	0.82%	0.224%
327	18.221	18.187	18.249	VV	4885	121236	1.73%	0.474%
328	18.267	18.249	18.287	VV	2681	43349	0.62%	0.169%
329	18.290	18.287	18.300	VV	1365	8660	0.12%	0.034%
330	18.307	18.300	18.315	VV	1063	7581	0.11%	0.030%
331	18.333	18.315	18.337	VV	1251	12682	0.18%	0.050%
332	18.345	18.337	18.374	VV	1338	18096	0.26%	0.071%
333	18.402	18.374	18.414	VV	2077	28531	0.41%	0.112%
334	18.437	18.414	18.475	VV	6311	133809	1.91%	0.523%
335	18.499	18.475	18.525	VV	9266	141776	2.02%	0.554%
336	18.540	18.525	18.567	VV	2821	34891	0.50%	0.136%
337	18.593	18.567	18.629	VV	3900	76979	1.10%	0.301%
338	18.636	18.629	18.652	VV	1813	19395	0.28%	0.076%
339	18.665	18.652	18.670	VV	1514	12919	0.18%	0.050%
340	18.677	18.670	18.683	VV	1043	7419	0.11%	0.029%
341	18.686	18.683	18.690	VV	968	3747	0.05%	0.015%
342	18.701	18.690	18.705	VV	1996	14634	0.21%	0.057%
343	18.710	18.705	18.729	VV	1927	18704	0.27%	0.073%
344	18.760	18.729	18.766	VV	1374	21784	0.31%	0.085%
345	18.769	18.766	18.777	VV	1003	3881	0.06%	0.015%

Sum of corrected areas: 25587787

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-2			SDG No.:	P4839
Lab Sample ID:	P4839-18			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.8
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 19:49	PB164996

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	1.16	mg/kg	FE051272.D
Aliphatic C12-C16	Aliphatic C12-C16	0.82		1	0.28	0.78	mg/kg	FE051272.D
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	1	0.35	1.16	mg/kg	FE051272.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	1	0.93	1.55	mg/kg	FE051272.D
Aliphatic C28-C40	Aliphatic C28-C40	6.78		1	2.10	2.33	mg/kg	FE051272.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.78	mg/kg	FF015064.D
Aromatic C12-C16	Aromatic C12-C16	0.46	J	1	0.40	1.16	mg/kg	FF015064.D
Aromatic C16-C21	Aromatic C16-C21	2.05		1	1.12	1.94	mg/kg	FF015064.D
Aromatic C21-C36	Aromatic C21-C36	2.33	U	1	2.33	3.11	mg/kg	FF015064.D
Total AliphaticEPH	Total AliphaticEPH	8.27			4.10	6.98	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.20	U		4.20	6.99	mg/kg	
Total EPH	Total EPH	10.8	J		8.30	14.0	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-2			SDG No.:	P4839
Lab Sample ID:	P4839-18			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	85.8
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 19:49	PB164996

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	1.16	mg/kg	FE051272.D
Aliphatic C12-C16	Aliphatic C12-C16	0.82		1	0.28	0.78	mg/kg	FE051272.D
Aliphatic C16-C21	Aliphatic C16-C21	0.66	J	1	0.35	1.16	mg/kg	FE051272.D
Aliphatic C21-C28	Aliphatic C21-C28	0.93	U	1	0.93	1.55	mg/kg	FE051272.D
Aliphatic C28-C40	Aliphatic C28-C40	6.78		1	2.10	2.33	mg/kg	FE051272.D
Aromatic C10-C12	Aromatic C10-C12	0.35	U	1	0.35	0.78	mg/kg	FF015064.D
Aromatic C12-C16	Aromatic C12-C16	0.46	J	1	0.40	1.16	mg/kg	FF015064.D
Aromatic C16-C21	Aromatic C16-C21	2.05		1	1.12	1.94	mg/kg	FF015064.D
Aromatic C21-C36	Aromatic C21-C36	2.33	U	1	2.33	3.11	mg/kg	FF015064.D
Total AliphaticEPH	Total AliphaticEPH	8.27			4.10	6.98	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.20	U		4.20	6.99	mg/kg	
Total EPH	Total EPH	10.8	J		8.30	14.0	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-2		SDG No.:	P4839	
Lab Sample ID:	P4839-18		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	85.8	
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
FE051272.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.44	U	0.44	1.16	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.82		0.28	0.78	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.66	J	0.35	1.16	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.93	U	0.93	1.55	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		6.78		2.10	2.33	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		49.1		40 - 140	98%	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:	P4839-18	Acq On:	15 Nov 2024 19:49
Client Sample ID:	EX-4-TPH-2	Operator:	YP\AJ
Data file:	FE051272.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	496972	3.552	300	ug/ml
Aliphatic C12-C16	6.754	10.185	1490074	10.595	200	ug/ml
Aliphatic C16-C21	10.186	13.544	1174198	8.523	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1544250	11.528	400	ug/ml
Aliphatic C28-C40	17.201	22.043	11238830	87.293	600	ug/ml
Aliphatic EPH	3.134	22.043	15944324	121.492		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	5574137	49.1		ug/ml
Aliphatic C9-C28	3.134	17.200	4705494	34.198	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051272.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 19:49
Operator : YP\AJ
Sample : P4839-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-2

Integration File: autoint1.e
Quant Time: Nov 16 08:21:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	5574137	49.098 ug/ml
Spiked Amount 50.000		Recovery = 98.20%	
Target Compounds			

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

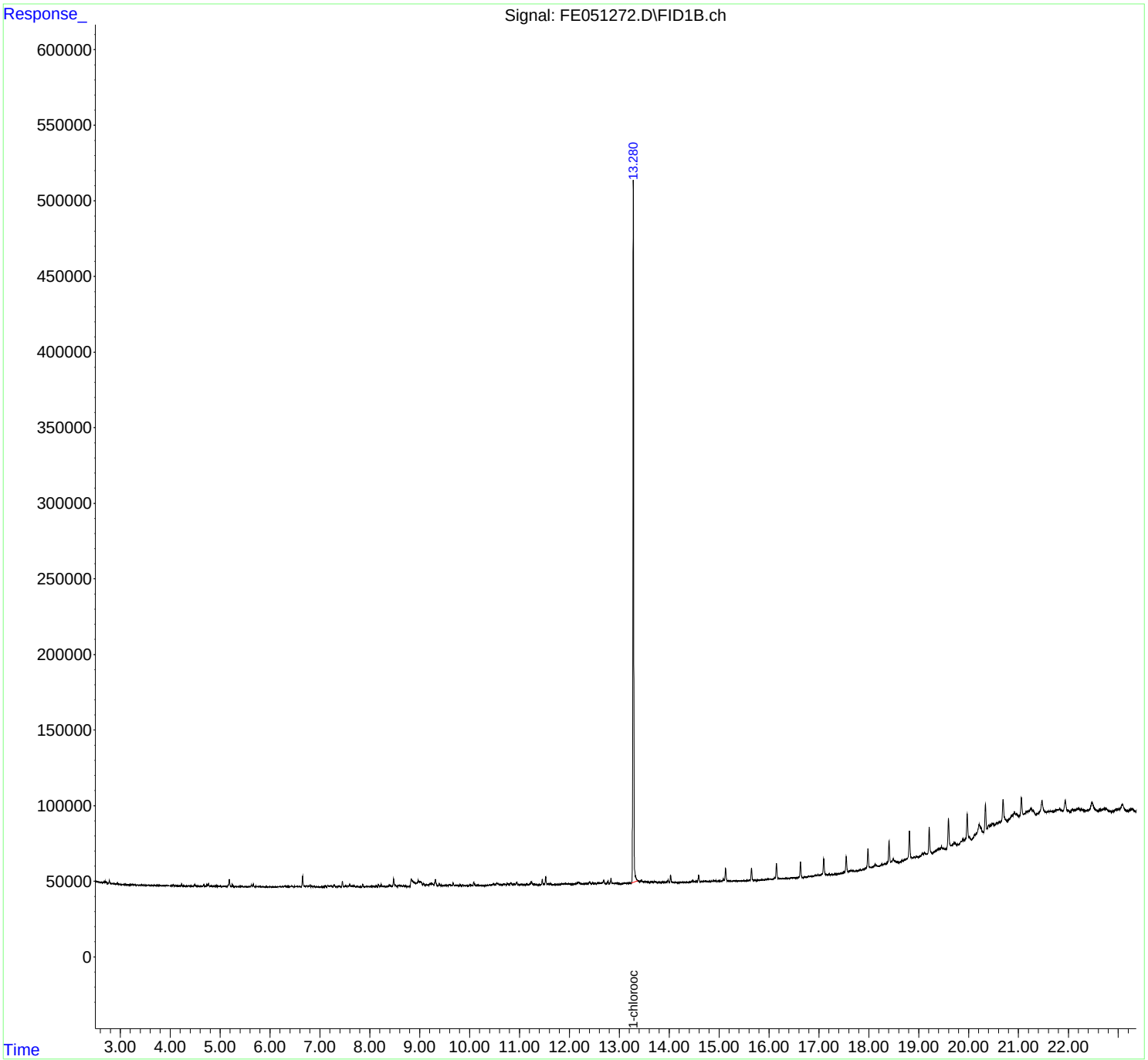
Quantitation Report (QT Reviewed)

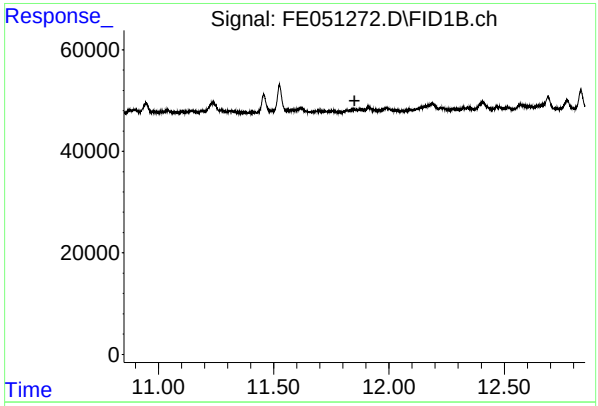
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051272.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 19:49
Operator : YP\AJ
Sample : P4839-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-2

Integration File: autoint1.e
Quant Time: Nov 16 08:21:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

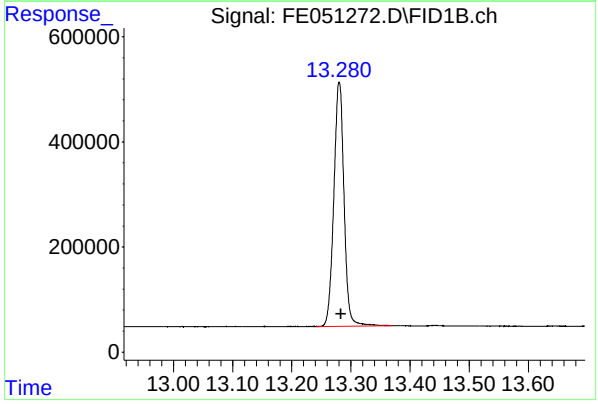




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-2



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 5574137
Conc: 49.10 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051272.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 19:49
Sample : P4839-18
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.240	3.214	3.341	BV	213	4415	0.08%	0.020%
2	3.357	3.341	3.371	VV	90	824	0.01%	0.004%
3	3.384	3.371	3.394	VV	197	1023	0.02%	0.005%
4	3.405	3.394	3.411	PV	97	587	0.01%	0.003%
5	3.435	3.411	3.465	VV	209	4218	0.07%	0.019%
6	3.476	3.465	3.536	VV	143	3489	0.06%	0.016%
7	3.564	3.536	3.604	VV	208	5296	0.09%	0.024%
8	3.624	3.604	3.664	VV	320	4494	0.08%	0.021%
9	3.682	3.664	3.734	VV	274	4049	0.07%	0.019%
10	3.739	3.734	3.758	VV	129	891	0.02%	0.004%
11	3.764	3.758	3.808	VV	132	2079	0.04%	0.010%
12	3.819	3.808	3.824	PV	93	565	0.01%	0.003%
13	3.834	3.824	3.896	VV	135	3622	0.06%	0.017%
14	3.927	3.896	3.991	VV	334	6148	0.11%	0.028%
15	4.026	4.001	4.041	BV	368	3729	0.07%	0.017%
16	4.061	4.041	4.123	VV	962	11025	0.19%	0.051%
17	4.134	4.123	4.169	PV	161	2232	0.04%	0.010%
18	4.194	4.169	4.204	PV	277	1919	0.03%	0.009%
19	4.229	4.204	4.353	VV	934	15944	0.28%	0.074%
20	4.364	4.353	4.378	VV	107	1219	0.02%	0.006%
21	4.390	4.378	4.418	VV	138	2657	0.05%	0.012%
22	4.430	4.418	4.445	VV	149	1433	0.03%	0.007%
23	4.489	4.445	4.576	PV	832	16157	0.28%	0.075%
24	4.584	4.576	4.591	VV	65	458	0.01%	0.002%
25	4.611	4.591	4.638	VV	375	4293	0.08%	0.020%
26	4.673	4.638	4.704	PV	1275	15559	0.27%	0.072%
27	4.736	4.704	4.751	VV	1159	14069	0.25%	0.065%
28	4.768	4.751	4.835	VV	1984	25321	0.44%	0.117%
29	4.846	4.835	4.874	VV	200	3588	0.06%	0.017%
30	4.899	4.874	4.954	VV	392	11024	0.19%	0.051%
31	4.990	4.954	5.044	VV	432	10219	0.18%	0.047%
32	5.050	5.044	5.083	VV	102	2359	0.04%	0.011%
33	5.097	5.083	5.138	VV	479	6862	0.12%	0.032%
34	5.184	5.138	5.221	VV	4861	69503	1.22%	0.321%
35	5.245	5.221	5.278	VV	1161	16184	0.28%	0.075%
36	5.304	5.278	5.332	VV	279	4805	0.08%	0.022%

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37	5.365	5.332	5.376	PV	187	2648	0.05%	0.012%
38	5.398	5.376	5.418	VV	308	5290	0.09%	0.024%
39	5.457	5.418	5.477	VV	203	4513	0.08%	0.021%
40	5.494	5.477	5.511	VV	207	2388	0.04%	0.011%
41	5.520	5.511	5.548	VV	148	2036	0.04%	0.009%
42	5.559	5.548	5.570	PV	82	836	0.01%	0.004%
43	5.583	5.570	5.603	VV	248	2462	0.04%	0.011%
44	5.626	5.603	5.647	VV	1156	15294	0.27%	0.071%
45	5.665	5.647	5.708	VV	1835	22443	0.39%	0.104%
46	5.725	5.708	5.770	VV	477	6876	0.12%	0.032%
47	5.801	5.770	5.868	VV	304	8934	0.16%	0.041%
48	5.884	5.868	5.902	VV	148	1195	0.02%	0.006%
49	5.929	5.902	5.964	VV	454	6409	0.11%	0.030%
50	5.984	5.964	6.083	VV	130	5125	0.09%	0.024%
51	6.096	6.083	6.115	PV	119	1405	0.02%	0.006%
52	6.125	6.115	6.131	PV	85	529	0.01%	0.002%
53	6.154	6.131	6.167	VV	194	2061	0.04%	0.010%
54	6.178	6.167	6.188	VV	78	958	0.02%	0.004%
55	6.205	6.188	6.228	VV	190	2685	0.05%	0.012%
56	6.253	6.228	6.275	VV	325	4289	0.08%	0.020%
57	6.298	6.275	6.322	VV	776	9695	0.17%	0.045%
58	6.363	6.322	6.401	VV	324	5371	0.09%	0.025%
59	6.435	6.401	6.512	VV	465	11212	0.20%	0.052%
60	6.537	6.512	6.576	VV	178	3721	0.07%	0.017%
61	6.586	6.576	6.628	VV	101	1779	0.03%	0.008%
62	6.653	6.628	6.701	PBA	6932	77434	1.36%	0.357%
63	6.735	6.701	6.758	BV	788	7125	0.12%	0.033%
64	6.774	6.758	6.787	PV	375	3928	0.07%	0.018%
65	6.805	6.787	6.825	VV	1391	15380	0.27%	0.071%
66	6.838	6.825	6.860	VV	475	4897	0.09%	0.023%
67	6.879	6.860	6.921	VV	693	8333	0.15%	0.038%
68	6.932	6.921	6.971	PV	133	2341	0.04%	0.011%
69	6.980	6.971	7.003	VV	90	1446	0.03%	0.007%
70	7.026	7.003	7.055	PV	182	3402	0.06%	0.016%
71	7.061	7.055	7.071	VV	114	844	0.01%	0.004%
72	7.105	7.071	7.129	PV	925	11757	0.21%	0.054%
73	7.159	7.129	7.193	VV	1141	21598	0.38%	0.100%
74	7.209	7.193	7.255	VV	850	21716	0.38%	0.100%
75	7.288	7.255	7.350	VV	1573	27551	0.48%	0.127%
76	7.372	7.350	7.381	VV	394	4871	0.09%	0.022%
77	7.393	7.381	7.423	VV	492	6399	0.11%	0.030%
78	7.452	7.423	7.486	VV	3854	44506	0.78%	0.205%
79	7.514	7.486	7.546	VV	627	15077	0.26%	0.070%
80	7.562	7.546	7.575	VV	772	9795	0.17%	0.045%
81	7.599	7.575	7.622	VV	1707	26628	0.47%	0.123%
82	7.632	7.622	7.643	VV	495	5690	0.10%	0.026%
83	7.658	7.643	7.675	VV	705	9496	0.17%	0.044%
84	7.690	7.675	7.718	VV	929	11432	0.20%	0.053%
85	7.729	7.718	7.745	VV	153	2099	0.04%	0.010%
86	7.763	7.745	7.796	VV	195	3389	0.06%	0.016%
87	7.808	7.796	7.841	VV	161	1384	0.02%	0.006%
88	7.861	7.841	7.894	PV	1697	17879	0.31%	0.082%
89	7.947	7.894	7.988	VV	332	8209	0.14%	0.038%

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90	8.013	7.988	8.046	VV	303	7135	0.12%	0.033%
91	8.061	8.046	8.073	VV	272	3568	0.06%	0.016%
92	8.084	8.073	8.111	VV	333	4542	0.08%	0.021%
93	8.127	8.111	8.149	VV	420	4996	0.09%	0.023%
94	8.172	8.149	8.198	VV	1618	18914	0.33%	0.087%
95	8.228	8.198	8.250	VV	1684	20689	0.36%	0.095%
96	8.265	8.250	8.282	VV	407	5260	0.09%	0.024%
97	8.298	8.282	8.319	VV	407	4832	0.08%	0.022%
98	8.389	8.319	8.453	VV	982	35324	0.62%	0.163%
99	8.479	8.453	8.551	VV	5170	83680	1.47%	0.386%
100	8.590	8.551	8.611	VV	954	23519	0.41%	0.108%
101	8.629	8.611	8.651	VV	810	12197	0.21%	0.056%
102	8.672	8.651	8.692	VV	649	9214	0.16%	0.043%
103	8.710	8.692	8.744	VV	800	10568	0.19%	0.049%
104	8.772	8.744	8.781	VV	97	1632	0.03%	0.008%
105	8.832	8.781	8.914	PV	4936	199658	3.50%	0.921%
106	8.938	8.914	8.950	VV	2445	48842	0.86%	0.225%
107	8.971	8.950	9.004	VV	3947	103804	1.82%	0.479%
108	9.018	9.004	9.068	VV	3319	88209	1.55%	0.407%
109	9.081	9.068	9.112	VV	1648	31327	0.55%	0.145%
110	9.133	9.112	9.164	VV	1253	29051	0.51%	0.134%
111	9.172	9.164	9.178	VV	892	6855	0.12%	0.032%
112	9.239	9.178	9.253	VV	2325	69127	1.21%	0.319%
113	9.260	9.253	9.284	VV	1599	24269	0.43%	0.112%
114	9.317	9.284	9.371	VV	4431	92871	1.63%	0.428%
115	9.391	9.371	9.417	VV	1509	22579	0.40%	0.104%
116	9.439	9.417	9.472	VV	1012	17492	0.31%	0.081%
117	9.492	9.472	9.508	VV	509	8678	0.15%	0.040%
118	9.520	9.508	9.568	VV	584	16336	0.29%	0.075%
119	9.606	9.568	9.644	VV	1097	29001	0.51%	0.134%
120	9.669	9.644	9.709	VV	1906	33217	0.58%	0.153%
121	9.726	9.709	9.755	VV	486	10788	0.19%	0.050%
122	9.767	9.755	9.788	VV	453	6655	0.12%	0.031%
123	9.810	9.788	9.838	VV	1022	15409	0.27%	0.071%
124	9.864	9.838	9.914	VV	931	16706	0.29%	0.077%
125	9.926	9.914	9.971	VV	199	4268	0.07%	0.020%
126	10.006	9.971	10.057	VV	740	16713	0.29%	0.077%
127	10.085	10.057	10.132	VV	2650	41030	0.72%	0.189%
128	10.157	10.132	10.218	VV	661	21072	0.37%	0.097%
129	10.231	10.218	10.248	VV	313	4280	0.07%	0.020%
130	10.257	10.248	10.308	VV	338	3870	0.07%	0.018%
131	10.359	10.308	10.378	PV	381	7845	0.14%	0.036%
132	10.401	10.378	10.421	VV	641	11587	0.20%	0.053%
133	10.430	10.421	10.440	VV	461	4575	0.08%	0.021%
134	10.476	10.440	10.494	VV	1176	23503	0.41%	0.108%
135	10.512	10.494	10.528	VV	883	14417	0.25%	0.067%
136	10.549	10.528	10.651	VV	1617	63120	1.11%	0.291%
137	10.683	10.651	10.695	VV	959	15768	0.28%	0.073%
138	10.715	10.695	10.734	VV	864	16322	0.29%	0.075%
139	10.756	10.734	10.783	VV	1203	23985	0.42%	0.111%
140	10.824	10.783	10.857	VV	1610	39350	0.69%	0.182%
141	10.878	10.857	10.891	VV	820	13225	0.23%	0.061%

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142	10.899	10.891	10.921	VV	880	12437	0.22%	0.057%
143	10.947	10.921	11.005	VV	2134	44713	0.78%	0.206%
144	11.039	11.005	11.062	VV	661	15945	0.28%	0.074%
145	11.071	11.062	11.088	VV	357	4761	0.08%	0.022%
146	11.105	11.088	11.119	VV	416	6112	0.11%	0.028%
147	11.145	11.119	11.171	VV	574	12178	0.21%	0.056%
148	11.190	11.171	11.200	VV	485	6875	0.12%	0.032%
149	11.236	11.200	11.294	VV	2113	58031	1.02%	0.268%
150	11.315	11.294	11.387	VV	420	12562	0.22%	0.058%
151	11.410	11.387	11.424	VV	167	2189	0.04%	0.010%
152	11.457	11.424	11.488	VV	3611	50876	0.89%	0.235%
153	11.525	11.488	11.567	VV	5543	81423	1.43%	0.376%
154	11.576	11.567	11.590	VV	505	6352	0.11%	0.029%
155	11.620	11.590	11.660	VV	896	19911	0.35%	0.092%
156	11.691	11.660	11.734	VV	232	6982	0.12%	0.032%
157	11.755	11.734	11.787	VV	236	3709	0.06%	0.017%
158	11.847	11.787	11.864	VV	451	13049	0.23%	0.060%
159	11.878	11.864	11.891	VV	494	6748	0.12%	0.031%
160	11.911	11.891	11.947	VV	852	17360	0.30%	0.080%
161	11.987	11.947	12.061	VV	769	21380	0.37%	0.099%
162	12.186	12.061	12.215	VV	1497	60536	1.06%	0.279%
163	12.226	12.215	12.263	VV	606	12445	0.22%	0.057%
164	12.287	12.263	12.311	VV	440	8769	0.15%	0.040%
165	12.324	12.311	12.334	VV	582	6897	0.12%	0.032%
166	12.346	12.334	12.369	VV	611	9537	0.17%	0.044%
167	12.406	12.369	12.447	VV	1654	39516	0.69%	0.182%
168	12.471	12.447	12.504	VV	725	17695	0.31%	0.082%
169	12.514	12.504	12.541	VV	618	8697	0.15%	0.040%
170	12.568	12.541	12.631	VV	1063	38454	0.67%	0.177%
171	12.690	12.631	12.738	VV	2695	62003	1.09%	0.286%
172	12.773	12.738	12.803	VV	1910	30544	0.54%	0.141%
173	12.832	12.803	12.878	VV	3854	56812	1.00%	0.262%
174	12.887	12.878	12.913	VV	345	6014	0.11%	0.028%
175	12.950	12.913	13.018	VV	465	15041	0.26%	0.069%
176	13.026	13.018	13.039	VV	77	737	0.01%	0.003%
177	13.114	13.039	13.134	PV	362	12106	0.21%	0.056%
178	13.155	13.134	13.174	VV	444	6388	0.11%	0.029%
179	13.197	13.174	13.218	VV	431	8236	0.14%	0.038%
180	13.280	13.218	13.418	VV	467131	5707998	100.00%	26.332%
181	13.442	13.418	13.490	VV	2231	61911	1.08%	0.286%
182	13.512	13.490	13.613	VV	1259	66420	1.16%	0.306%
183	13.642	13.613	13.678	VV	822	26883	0.47%	0.124%
184	13.713	13.678	13.759	VV	1161	38735	0.68%	0.179%
185	13.788	13.759	13.811	VV	552	14384	0.25%	0.066%
186	13.824	13.811	13.854	VV	528	12057	0.21%	0.056%
187	13.892	13.854	13.918	VV	654	20005	0.35%	0.092%
188	13.976	13.918	14.002	VV	2018	42620	0.75%	0.197%
189	14.027	14.002	14.071	VV	5075	73553	1.29%	0.339%
190	14.080	14.071	14.101	VV	407	5213	0.09%	0.024%
191	14.111	14.101	14.141	VV	217	4618	0.08%	0.021%
192	14.163	14.141	14.211	VV	199	5060	0.09%	0.023%
193	14.221	14.211	14.228	PV	113	793	0.01%	0.004%
194	14.254	14.228	14.277	VV	287	6405	0.11%	0.030%

195	14.361	14.277	14.379	VV	238	11459	0.20%	0.053%
196	14.406	14.379	14.421	VV	305	4694	0.08%	0.022%
197	14.468	14.421	14.493	VV	1223	25300	0.44%	0.117%
198	14.542	14.493	14.564	VV	678	21369	0.37%	0.099%
199	14.590	14.564	14.631	VV	4743	68944	1.21%	0.318%
200	14.725	14.631	14.771	VV	586	37494	0.66%	0.173%
201	14.787	14.771	14.810	VV	407	8058	0.14%	0.037%
202	14.842	14.810	14.858	VV	524	11715	0.21%	0.054%
203	14.901	14.858	14.919	VV	740	21394	0.37%	0.099%
204	14.937	14.919	14.957	VV	636	12655	0.22%	0.058%
205	14.984	14.957	15.024	VV	472	14860	0.26%	0.069%
206	15.086	15.024	15.103	VV	1749	34825	0.61%	0.161%
207	15.129	15.103	15.231	VV	8900	141548	2.48%	0.653%
208	15.241	15.231	15.264	VV	194	2695	0.05%	0.012%
209	15.296	15.264	15.312	VV	423	7229	0.13%	0.033%
210	15.325	15.312	15.359	VV	276	6284	0.11%	0.029%
211	15.376	15.359	15.419	VV	195	4605	0.08%	0.021%
212	15.436	15.419	15.446	VV	260	1925	0.03%	0.009%
213	15.463	15.446	15.488	VV	242	3424	0.06%	0.016%
214	15.516	15.488	15.527	PV	177	3008	0.05%	0.014%
215	15.558	15.527	15.590	VV	215	4485	0.08%	0.021%
216	15.606	15.590	15.620	VV	323	4563	0.08%	0.021%
217	15.648	15.620	15.700	VV	8420	117399	2.06%	0.542%
218	15.711	15.700	15.734	VV	168	1636	0.03%	0.008%
219	15.790	15.734	15.814	VV	179	4043	0.07%	0.019%
220	15.849	15.814	15.874	VV	198	4985	0.09%	0.023%
221	15.890	15.874	15.915	VV	158	2503	0.04%	0.012%
222	15.972	15.915	15.988	PV	708	14112	0.25%	0.065%
223	16.016	15.988	16.048	VV	474	13004	0.23%	0.060%
224	16.111	16.048	16.123	VV	1188	22075	0.39%	0.102%
225	16.148	16.123	16.218	VV	10508	161777	2.83%	0.746%
226	16.229	16.218	16.238	VV	257	2529	0.04%	0.012%
227	16.253	16.238	16.264	VV	237	3122	0.05%	0.014%
228	16.283	16.264	16.304	VV	284	5327	0.09%	0.025%
229	16.349	16.304	16.368	VV	331	9921	0.17%	0.046%
230	16.392	16.368	16.414	VV	195	4252	0.07%	0.020%
231	16.459	16.414	16.483	VV	513	11806	0.21%	0.054%
232	16.505	16.483	16.556	VV	337	8137	0.14%	0.038%
233	16.630	16.556	16.691	PV	10563	151194	2.65%	0.697%
234	16.718	16.691	16.744	PV	164	3722	0.07%	0.017%
235	16.797	16.744	16.821	VV	454	12808	0.22%	0.059%
236	16.832	16.821	16.864	VV	473	9220	0.16%	0.043%
237	16.875	16.864	16.883	VV	330	3552	0.06%	0.016%
238	16.933	16.883	16.952	VV	924	22771	0.40%	0.105%
239	16.980	16.952	17.001	VV	919	20476	0.36%	0.094%
240	17.017	17.001	17.036	VV	664	12271	0.21%	0.057%
241	17.096	17.036	17.138	VV	11120	197514	3.46%	0.911%
242	17.144	17.138	17.164	VV	664	8599	0.15%	0.040%
243	17.198	17.164	17.229	VV	453	12636	0.22%	0.058%
244	17.259	17.229	17.294	VV	234	5471	0.10%	0.025%
245	17.332	17.294	17.353	VV	383	5632	0.10%	0.026%
246	17.390	17.353	17.405	PV	340	5716	0.10%	0.026%

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247	17.440	17.405	17.454	VV	367	7369	0.13%	0.034%
248	17.547	17.454	17.592	VV	10758	189084	3.31%	0.872%
249	17.651	17.592	17.694	VV	1205	47022	0.82%	0.217%
250	17.701	17.694	17.728	VV	416	6274	0.11%	0.029%
251	17.749	17.728	17.768	VV	381	5384	0.09%	0.025%
252	17.828	17.768	17.854	VV	693	13556	0.24%	0.063%
253	17.982	17.854	18.019	PV	13479	236193	4.14%	1.090%
254	18.027	18.019	18.064	VV	993	20402	0.36%	0.094%
255	18.123	18.064	18.192	VV	2240	83145	1.46%	0.384%
256	18.260	18.192	18.281	VV	1383	40494	0.71%	0.187%
257	18.325	18.281	18.334	VV	1095	31768	0.56%	0.147%
258	18.405	18.334	18.438	VV	15739	280470	4.91%	1.294%
259	18.489	18.438	18.604	VV	3317	148959	2.61%	0.687%
260	18.671	18.604	18.691	PV	961	18693	0.33%	0.086%
261	18.814	18.691	18.891	VV	19025	370557	6.49%	1.709%
262	18.910	18.891	18.930	VV	1116	17504	0.31%	0.081%
263	18.961	18.930	18.994	VV	942	18848	0.33%	0.087%
264	19.072	18.994	19.094	VV	1698	42569	0.75%	0.196%
265	19.115	19.094	19.164	VV	1735	49921	0.87%	0.230%
266	19.211	19.164	19.276	VV	17935	277610	4.86%	1.281%
267	19.387	19.276	19.398	PV	1718	59410	1.04%	0.274%
268	19.419	19.398	19.433	VV	1826	30773	0.54%	0.142%
269	19.457	19.433	19.487	VV	2419	53091	0.93%	0.245%
270	19.503	19.487	19.524	VV	1164	17404	0.30%	0.080%
271	19.597	19.524	19.640	VV	19851	344774	6.04%	1.590%
272	19.711	19.640	19.724	VV	2503	93567	1.64%	0.432%
273	19.732	19.724	19.766	VV	2304	38312	0.67%	0.177%
274	19.885	19.766	19.917	VV	3231	152648	2.67%	0.704%
275	19.972	19.917	20.061	VV	19035	474776	8.32%	2.190%
276	20.212	20.061	20.300	VV	10029	714060	12.51%	3.294%
277	20.337	20.300	20.368	VV	22116	439798	7.70%	2.029%
278	20.401	20.368	20.419	VV	7229	200738	3.52%	0.926%
279	20.485	20.419	20.517	VV	7861	421920	7.39%	1.946%
280	20.567	20.517	20.582	VV	7347	261843	4.59%	1.208%
281	20.612	20.582	20.636	VV	7739	232349	4.07%	1.072%
282	20.691	20.636	20.781	VV	21420	887738	15.55%	4.095%
283	20.917	20.781	21.002	VV	10579	1139730	19.97%	5.258%
284	21.059	21.002	21.096	VV	19305	608246	10.66%	2.806%
285	21.246	21.096	21.346	VV	9816	1243138	21.78%	5.735%
286	21.385	21.346	21.394	VV	5493	151561	2.66%	0.699%
287	21.471	21.394	21.562	VV	13108	722159	12.65%	3.331%
288	21.587	21.562	21.610	VV	4868	132596	2.32%	0.612%
289	21.636	21.610	21.677	VV	4594	173578	3.04%	0.801%
290	21.689	21.677	21.704	VV	3782	59539	1.04%	0.275%
291	21.768	21.704	21.778	VV	4069	171598	3.01%	0.792%
292	21.785	21.778	21.798	VV	3903	44307	0.78%	0.204%
293	21.826	21.798	21.891	VV	4010	180711	3.17%	0.834%
294	21.937	21.891	22.040	VV	8172	265825	4.66%	1.226%
295	22.089	22.040	22.105	PV	766	19276	0.34%	0.089%
296	22.116	22.105	22.140	VV	477	5781	0.10%	0.027%

Sum of corrected areas: 21677379

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-2		SDG No.:	P4839	
Lab Sample ID:	P4839-18		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	85.8	
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
FF015064.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.35	U	0.35	0.78	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.46	J	0.40	1.16	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.05		1.12	1.94	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.33	U	2.33	3.11	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	44.1		40 - 140	88%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	40.9		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.7		40 - 140	77%	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:	P4839-18	Acq On:	15 Nov 2024 16:36
Client Sample ID:	EX-4-TPH-2	Operator:	YP\AJ
Data file:	FF015064.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	4.507	6.371	596956	4.364	200	ug/ml
Aromatic C12-C16	6.372	9.062	807690	5.982	300	ug/ml
Aromatic C16-C21	9.063	13.374	3373254	26.375	500	ug/ml
Aromatic C21-C36	13.375	18.817	2383447	19.557	800	ug/ml
Aromatic EPH	4.507	18.817	7161347	56.278		ug/ml
2-Bromonaphthalene (SURR)	7.991	7.991	5391451	44.15		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	3341492	40.93		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	5185481	38.66		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015064.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:36
Operator : YP\AJ
Sample : P4839-18
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-2

Integration File: autoint1.e
Quant Time: Nov 18 00:25:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.991	5391451	44.150 ug/ml
Spiked Amount 50.000		Recovery =	88.30%
6) S 2-Flurobiphenyl (SURR)	8.865	3341492	40.929 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	81.86%
11) S ortho-Terphenyl (SURR)	11.927	5185481	38.656 ug/ml
Spiked Amount 50.000		Recovery =	77.31%
Target Compounds			

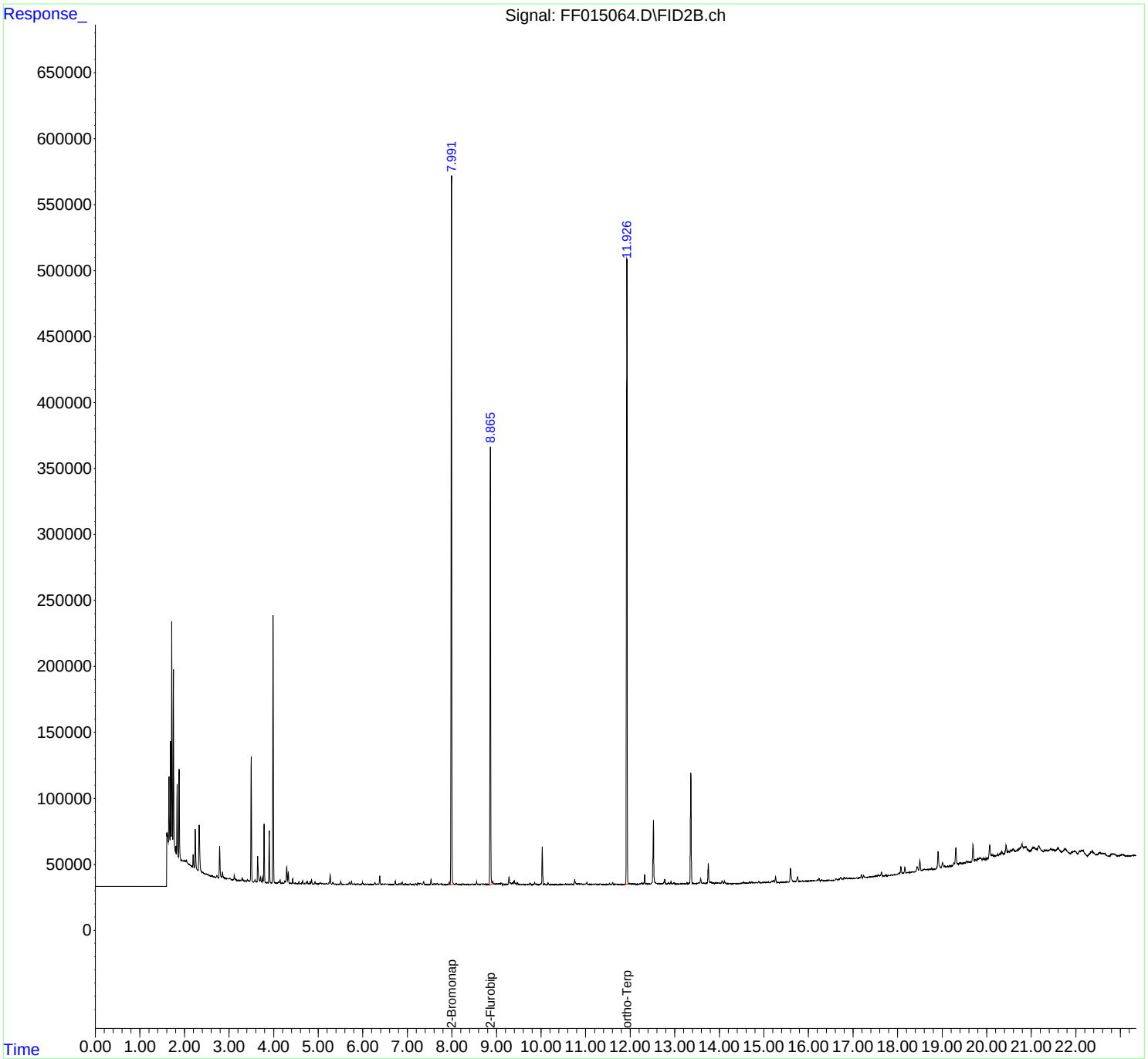
(f)=RT Delta > 1/2 Window (m)=manual int.

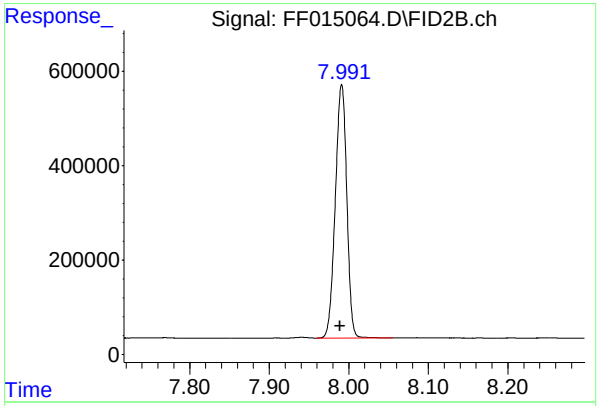
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015064.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:36
Operator : YP\AJ
Sample : P4839-18
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-2

Integration File: autoint1.e
Quant Time: Nov 18 00:25:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

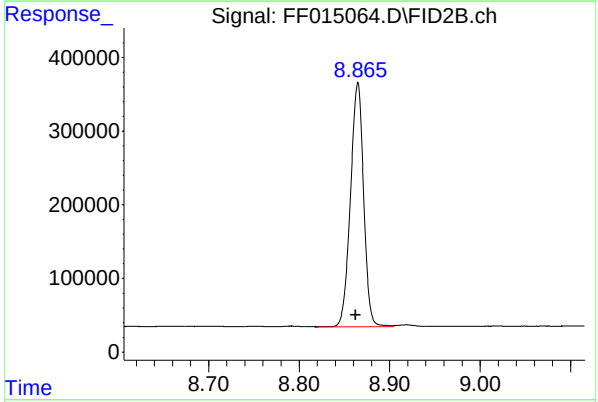




#4 2-Bromonaphthalene (SURR)

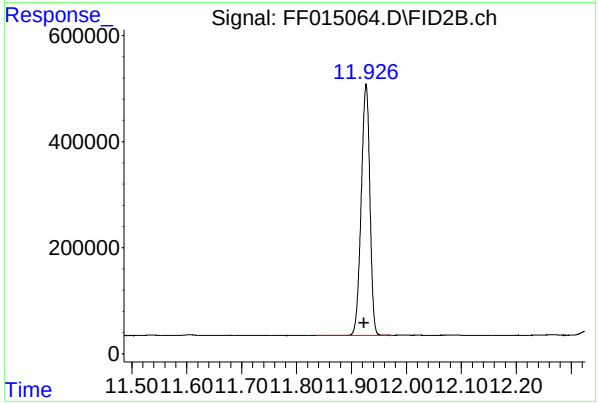
R.T.: 7.991 min
Delta R.T.: 0.002 min
Response: 5391451
Conc: 44.15 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-2



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.002 min
Response: 3341492
Conc: 40.93 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.003 min
Response: 5185481
Conc: 38.66 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015064.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 16:36
Sample : P4839-18
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.428	4.400	4.445	BV	3601	32347	0.60%	0.153%
2	4.456	4.445	4.471	VV	482	4192	0.08%	0.020%
3	4.485	4.471	4.504	VV	593	6474	0.12%	0.031%
4	4.512	4.504	4.537	VV	358	3315	0.06%	0.016%
5	4.569	4.544	4.589	VV	1798	19417	0.36%	0.092%
6	4.607	4.589	4.621	VV	345	4175	0.08%	0.020%
7	4.651	4.621	4.676	VV	2359	28940	0.54%	0.137%
8	4.696	4.676	4.713	VV	503	5752	0.11%	0.027%
9	4.734	4.713	4.744	PV	1317	13312	0.25%	0.063%
10	4.758	4.744	4.779	VV	2118	22890	0.42%	0.108%
11	4.793	4.779	4.799	VV	291	2547	0.05%	0.012%
12	4.820	4.799	4.835	VV	2065	21277	0.39%	0.101%
13	4.853	4.835	4.900	VV	3342	38794	0.72%	0.183%
14	4.929	4.900	4.963	VV	1835	25187	0.47%	0.119%
15	4.980	4.963	5.007	VV	632	9958	0.18%	0.047%
16	5.039	5.007	5.054	VV	1134	16389	0.30%	0.077%
17	5.061	5.054	5.083	VV	735	10561	0.20%	0.050%
18	5.096	5.083	5.162	VV	817	16554	0.31%	0.078%
19	5.191	5.162	5.222	VV	809	15794	0.29%	0.075%
20	5.243	5.222	5.252	VV	1404	14560	0.27%	0.069%
21	5.270	5.252	5.300	VV	7040	84861	1.57%	0.401%
22	5.329	5.300	5.345	VV	1734	24266	0.45%	0.115%
23	5.352	5.345	5.375	VV	773	7919	0.15%	0.037%
24	5.382	5.375	5.399	VV	378	3487	0.06%	0.016%
25	5.402	5.399	5.421	VV	184	1469	0.03%	0.007%
26	5.437	5.421	5.460	PV	327	4873	0.09%	0.023%
27	5.475	5.460	5.490	VV	500	5813	0.11%	0.027%
28	5.508	5.490	5.545	VV	2277	25831	0.48%	0.122%
29	5.553	5.545	5.575	VV	267	3439	0.06%	0.016%
30	5.578	5.575	5.594	VV	201	1389	0.03%	0.007%
31	5.669	5.642	5.683	VV	385	5943	0.11%	0.028%
32	5.701	5.683	5.725	VV	1792	20979	0.39%	0.099%
33	5.748	5.725	5.788	VV	2556	32662	0.60%	0.154%
34	5.808	5.788	5.829	VV	834	9667	0.18%	0.046%
35	5.895	5.829	5.929	VV	506	14255	0.26%	0.067%
36	5.962	5.929	5.979	VV	309	5298	0.10%	0.025%

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37	5.994	5.979	6.051	VV	1714	23936	0.44%	0.113%
38	6.057	6.051	6.098	VV	250	5219	0.10%	0.025%
39	6.114	6.098	6.144	VV	443	6003	0.11%	0.028%
40	6.180	6.160	6.201	PV	332	4059	0.08%	0.019%
41	6.219	6.201	6.250	VV	354	6683	0.12%	0.032%
42	6.272	6.250	6.320	VV	1634	23017	0.43%	0.109%
43	6.333	6.320	6.354	VV	500	6466	0.12%	0.031%
44	6.382	6.354	6.407	VV	6621	71326	1.32%	0.337%
45	6.418	6.407	6.430	VV	350	3900	0.07%	0.018%
46	6.444	6.430	6.481	VV	746	11311	0.21%	0.053%
47	6.504	6.481	6.552	VV	673	16731	0.31%	0.079%
48	6.570	6.552	6.610	VV	611	8257	0.15%	0.039%
49	6.619	6.610	6.632	VV	152	1300	0.02%	0.006%
50	6.661	6.632	6.707	VV	238	5146	0.10%	0.024%
51	6.731	6.707	6.754	VV	2617	28187	0.52%	0.133%
52	6.770	6.754	6.782	VV	294	3338	0.06%	0.016%
53	6.792	6.782	6.799	VV	314	2641	0.05%	0.012%
54	6.817	6.799	6.836	VV	1033	12535	0.23%	0.059%
55	6.853	6.836	6.867	VV	671	7738	0.14%	0.037%
56	6.885	6.867	6.906	VV	1857	19940	0.37%	0.094%
57	6.921	6.906	6.940	VV	604	6158	0.11%	0.029%
58	6.960	6.940	6.980	VV	928	9921	0.18%	0.047%
59	6.993	6.980	7.005	PV	171	1635	0.03%	0.008%
60	7.012	7.005	7.034	VV	218	2578	0.05%	0.012%
61	7.065	7.034	7.093	VV	999	14239	0.26%	0.067%
62	7.113	7.093	7.129	VV	478	6552	0.12%	0.031%
63	7.133	7.129	7.160	VV	300	2691	0.05%	0.013%
64	7.184	7.160	7.217	VV	979	13716	0.25%	0.065%
65	7.239	7.217	7.255	VV	1580	20290	0.38%	0.096%
66	7.261	7.255	7.275	VV	771	8512	0.16%	0.040%
67	7.291	7.275	7.297	VV	1108	12533	0.23%	0.059%
68	7.302	7.297	7.335	VV	1147	15037	0.28%	0.071%
69	7.368	7.335	7.391	VV	2508	35825	0.66%	0.169%
70	7.404	7.391	7.434	VV	331	6363	0.12%	0.030%
71	7.455	7.434	7.465	VV	371	4527	0.08%	0.021%
72	7.478	7.465	7.492	VV	468	5201	0.10%	0.025%
73	7.533	7.492	7.560	VV	4266	51239	0.95%	0.242%
74	7.594	7.560	7.604	VV	735	12433	0.23%	0.059%
75	7.611	7.604	7.625	VV	556	6105	0.11%	0.029%
76	7.642	7.625	7.655	VV	910	10549	0.20%	0.050%
77	7.673	7.655	7.700	VV	1153	17106	0.32%	0.081%
78	7.711	7.700	7.724	VV	431	4413	0.08%	0.021%
79	7.744	7.724	7.757	VV	711	10908	0.20%	0.052%
80	7.769	7.757	7.796	VV	1059	11690	0.22%	0.055%
81	7.839	7.796	7.867	VV	273	6269	0.12%	0.030%
82	7.887	7.867	7.896	PV	223	2119	0.04%	0.010%
83	7.909	7.896	7.921	VV	374	4130	0.08%	0.020%
84	7.941	7.921	7.959	VV	1728	20434	0.38%	0.097%
85	7.991	7.959	8.056	VV	537422	5408704	100.00%	25.551%
86	8.086	8.056	8.130	VV	979	28282	0.52%	0.134%
87	8.136	8.130	8.149	VV	393	3836	0.07%	0.018%
88	8.162	8.149	8.179	VV	375	5124	0.09%	0.024%
89	8.204	8.187	8.227	VV	452	5886	0.11%	0.028%

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90	8.250	8.227	8.275	VV	967	13271	0.25%	0.063%
91	8.281	8.275	8.294	VV	223	1996	0.04%	0.009%
92	8.305	8.294	8.319	VV	415	4499	0.08%	0.021%
93	8.351	8.319	8.367	VV	441	8854	0.16%	0.042%
94	8.376	8.367	8.386	VV	313	2649	0.05%	0.013%
95	8.390	8.386	8.399	VV	231	1351	0.02%	0.006%
96	8.407	8.399	8.411	VV	176	1038	0.02%	0.005%
97	8.451	8.411	8.470	VV	552	12724	0.24%	0.060%
98	8.479	8.470	8.521	VV	425	9596	0.18%	0.045%
99	8.556	8.521	8.579	VV	2346	30607	0.57%	0.145%
100	8.588	8.579	8.600	VV	505	5301	0.10%	0.025%
101	8.616	8.600	8.635	VV	679	8835	0.16%	0.042%
102	8.654	8.635	8.660	VV	770	8757	0.16%	0.041%
103	8.668	8.660	8.688	VV	742	10723	0.20%	0.051%
104	8.708	8.688	8.731	VV	779	13133	0.24%	0.062%
105	8.751	8.731	8.774	VV	725	10586	0.20%	0.050%
106	8.791	8.774	8.819	VV	934	11830	0.22%	0.056%
107	8.865	8.819	8.904	PV	332906	3349526	61.93%	15.823%
108	8.918	8.904	8.952	VV	2721	43408	0.80%	0.205%
109	8.961	8.952	8.968	VV	696	6123	0.11%	0.029%
110	8.989	8.968	8.999	VV	812	13626	0.25%	0.064%
111	9.016	8.999	9.035	VV	984	18415	0.34%	0.087%
112	9.049	9.035	9.060	VV	908	11717	0.22%	0.055%
113	9.069	9.060	9.084	VV	990	12576	0.23%	0.059%
114	9.107	9.084	9.139	VV	1234	29641	0.55%	0.140%
115	9.146	9.139	9.148	VV	222	1082	0.02%	0.005%
116	9.163	9.148	9.190	VV	830	11688	0.22%	0.055%
117	9.212	9.190	9.232	VV	781	11801	0.22%	0.056%
118	9.237	9.232	9.242	VV	352	1953	0.04%	0.009%
119	9.283	9.242	9.304	VV	6187	86458	1.60%	0.408%
120	9.317	9.304	9.347	VV	1661	33118	0.61%	0.156%
121	9.362	9.347	9.377	VV	1766	23881	0.44%	0.113%
122	9.399	9.377	9.423	VV	3300	53794	0.99%	0.254%
123	9.432	9.423	9.452	VV	1383	16643	0.31%	0.079%
124	9.473	9.452	9.505	VV	1923	26897	0.50%	0.127%
125	9.523	9.505	9.555	VV	729	11103	0.21%	0.052%
126	9.575	9.555	9.587	VV	386	6333	0.12%	0.030%
127	9.603	9.587	9.647	VV	727	12250	0.23%	0.058%
128	9.668	9.647	9.679	VV	612	7937	0.15%	0.037%
129	9.687	9.679	9.705	VV	650	7062	0.13%	0.033%
130	9.710	9.705	9.727	VV	278	2878	0.05%	0.014%
131	9.750	9.727	9.790	VV	1407	24420	0.45%	0.115%
132	9.804	9.790	9.808	VV	197	1567	0.03%	0.007%
133	9.824	9.808	9.837	VV	475	6194	0.11%	0.029%
134	9.858	9.837	9.877	VV	2131	27265	0.50%	0.129%
135	9.890	9.877	9.921	VV	733	11070	0.20%	0.052%
136	9.929	9.921	9.932	VV	175	1087	0.02%	0.005%
137	9.941	9.932	9.949	VV	337	2991	0.06%	0.014%
138	9.954	9.949	9.972	VV	360	3818	0.07%	0.018%
139	10.000	9.972	10.007	VV	1137	13604	0.25%	0.064%
140	10.030	10.007	10.065	VV	28899	306911	5.67%	1.450%
141	10.084	10.065	10.135	VV	738	17084	0.32%	0.081%

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142	10.163	10.135	10.212	VV	1471	24675	0.46%	0.117%
143	10.235	10.212	10.259	VV	473	9352	0.17%	0.044%
144	10.262	10.259	10.293	VV	422	5539	0.10%	0.026%
145	10.311	10.293	10.325	VV	341	4534	0.08%	0.021%
146	10.334	10.325	10.354	VV	351	4337	0.08%	0.020%
147	10.356	10.354	10.372	VV	213	1434	0.03%	0.007%
148	10.394	10.372	10.400	PV	155	1881	0.03%	0.009%
149	10.411	10.400	10.425	VV	299	3441	0.06%	0.016%
150	10.428	10.425	10.456	VV	377	3981	0.07%	0.019%
151	10.487	10.456	10.523	VV	647	15175	0.28%	0.072%
152	10.558	10.523	10.572	VV	724	13110	0.24%	0.062%
153	10.593	10.572	10.617	VV	630	11653	0.22%	0.055%
154	10.633	10.617	10.664	VV	471	9030	0.17%	0.043%
155	10.683	10.664	10.703	VV	855	11925	0.22%	0.056%
156	10.713	10.703	10.732	VV	293	3899	0.07%	0.018%
157	10.755	10.732	10.816	VV	4339	79394	1.47%	0.375%
158	10.851	10.816	10.869	VV	1044	23918	0.44%	0.113%
159	10.900	10.869	10.936	VV	943	24198	0.45%	0.114%
160	10.956	10.936	10.972	VV	719	10268	0.19%	0.049%
161	10.993	10.972	11.007	VV	727	12289	0.23%	0.058%
162	11.031	11.007	11.080	VV	1723	33079	0.61%	0.156%
163	11.118	11.080	11.138	VV	561	13253	0.25%	0.063%
164	11.153	11.138	11.165	VV	539	6207	0.11%	0.029%
165	11.181	11.165	11.206	VV	516	9982	0.18%	0.047%
166	11.225	11.206	11.252	VV	545	10068	0.19%	0.048%
167	11.279	11.252	11.288	VV	396	6270	0.12%	0.030%
168	11.329	11.288	11.348	VV	840	18828	0.35%	0.089%
169	11.355	11.348	11.379	VV	328	3827	0.07%	0.018%
170	11.396	11.379	11.422	VV	221	3845	0.07%	0.018%
171	11.435	11.422	11.459	VV	157	2163	0.04%	0.010%
172	11.464	11.459	11.479	VV	161	1219	0.02%	0.006%
173	11.536	11.503	11.557	PV	1099	14521	0.27%	0.069%
174	11.576	11.557	11.586	VV	434	5046	0.09%	0.024%
175	11.605	11.586	11.632	VV	1630	20889	0.39%	0.099%
176	11.659	11.632	11.663	VV	346	4153	0.08%	0.020%
177	11.679	11.663	11.716	VV	575	10477	0.19%	0.049%
178	11.761	11.744	11.783	VV	371	4584	0.08%	0.022%
179	11.797	11.783	11.818	PV	226	2652	0.05%	0.013%
180	11.838	11.818	11.860	VV	164	2459	0.05%	0.012%
181	11.927	11.860	11.975	VV	473777	5205984	96.25%	24.593%
182	11.994	11.975	12.010	VV	934	13603	0.25%	0.064%
183	12.023	12.010	12.045	VV	624	10176	0.19%	0.048%
184	12.087	12.045	12.117	VV	940	21502	0.40%	0.102%
185	12.124	12.117	12.137	VV	200	2387	0.04%	0.011%
186	12.144	12.137	12.159	VV	325	3396	0.06%	0.016%
187	12.201	12.159	12.218	VV	449	10391	0.19%	0.049%
188	12.266	12.218	12.292	VV	1312	33748	0.62%	0.159%
189	12.325	12.292	12.349	VV	7303	91136	1.68%	0.431%
190	12.368	12.349	12.390	VV	954	14053	0.26%	0.066%
191	12.412	12.390	12.418	VV	544	6502	0.12%	0.031%
192	12.431	12.418	12.459	VV	583	10079	0.19%	0.048%
193	12.520	12.459	12.590	VV	48610	636053	11.76%	3.005%
194	12.600	12.590	12.624	VV	727	12481	0.23%	0.059%

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195	12.651	12.624	12.664	VV	663	13766	0.25%	0.065%
196	12.678	12.664	12.685	VV	713	8334	0.15%	0.039%
197	12.687	12.685	12.693	VV	686	2884	0.05%	0.014%
198	12.698	12.693	12.704	VV	629	3941	0.07%	0.019%
199	12.710	12.704	12.715	VV	613	3956	0.07%	0.019%
200	12.721	12.715	12.733	VV	610	5896	0.11%	0.028%
201	12.775	12.733	12.804	VV	3862	67751	1.25%	0.320%
202	12.854	12.804	12.885	VV	1473	27542	0.51%	0.130%
203	12.914	12.885	12.942	VV	2262	32579	0.60%	0.154%
204	12.952	12.942	12.957	VV	371	2707	0.05%	0.013%
205	12.978	12.957	13.017	VV	1130	22607	0.42%	0.107%
206	13.041	13.017	13.109	VV	278	7626	0.14%	0.036%
207	13.138	13.109	13.154	VV	520	7680	0.14%	0.036%
208	13.193	13.154	13.234	VV	660	20495	0.38%	0.097%
209	13.239	13.234	13.255	VV	386	3186	0.06%	0.015%
210	13.271	13.255	13.298	VV	888	14659	0.27%	0.069%
211	13.315	13.298	13.329	VV	755	11637	0.22%	0.055%
212	13.360	13.329	13.394	VV	84395	1029840	19.04%	4.865%
213	13.416	13.394	13.442	VV	676	15893	0.29%	0.075%
214	13.447	13.442	13.470	VV	580	8381	0.15%	0.040%
215	13.474	13.470	13.504	VV	572	8704	0.16%	0.041%
216	13.528	13.504	13.544	VV	938	17495	0.32%	0.083%
217	13.550	13.544	13.557	VV	900	6588	0.12%	0.031%
218	13.580	13.557	13.628	VV	3910	68632	1.27%	0.324%
219	13.648	13.628	13.684	VV	765	20920	0.39%	0.099%
220	13.752	13.684	13.794	VV	15439	221717	4.10%	1.047%
221	13.797	13.794	13.815	VV	1370	16466	0.30%	0.078%
222	13.818	13.815	13.843	VV	1323	15036	0.28%	0.071%
223	13.866	13.843	13.886	VV	822	17475	0.32%	0.083%
224	13.917	13.886	13.951	VV	898	28921	0.53%	0.137%
225	13.978	13.951	14.004	VV	797	21158	0.39%	0.100%
226	14.018	14.004	14.022	VV	551	5335	0.10%	0.025%
227	14.063	14.022	14.090	VV	2483	44943	0.83%	0.212%
228	14.113	14.090	14.161	VV	1931	36304	0.67%	0.171%
229	14.178	14.161	14.191	VV	299	4593	0.08%	0.022%
230	14.210	14.191	14.218	VV	341	4124	0.08%	0.019%
231	14.228	14.218	14.237	VV	214	1914	0.04%	0.009%
232	14.239	14.237	14.250	VV	192	1060	0.02%	0.005%
233	14.334	14.314	14.344	VV	248	3373	0.06%	0.016%
234	14.348	14.344	14.394	VV	274	4562	0.08%	0.022%
235	14.402	14.394	14.424	VV	108	1203	0.02%	0.006%
236	14.452	14.424	14.485	VV	183	4329	0.08%	0.020%
237	14.507	14.485	14.525	VV	671	10276	0.19%	0.049%
238	14.549	14.525	14.572	VV	902	15846	0.29%	0.075%
239	14.592	14.572	14.616	VV	431	9430	0.17%	0.045%
240	14.628	14.616	14.655	VV	399	6853	0.13%	0.032%
241	14.676	14.655	14.697	VV	987	15138	0.28%	0.072%
242	14.700	14.697	14.714	VV	320	3120	0.06%	0.015%
243	14.733	14.714	14.756	VV	1087	16853	0.31%	0.080%
244	14.776	14.756	14.795	VV	592	10667	0.20%	0.050%
245	14.814	14.795	14.819	VV	525	6720	0.12%	0.032%
246	14.826	14.819	14.834	VV	573	4616	0.09%	0.022%

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247	14.839	14.834	14.860	VV	546	6982	0.13%	0.033%
248	14.886	14.860	14.914	VV	1314	22870	0.42%	0.108%
249	14.934	14.914	14.950	VV	385	6553	0.12%	0.031%
250	14.992	14.950	15.012	VV	576	15095	0.28%	0.071%
251	15.026	15.012	15.041	VV	543	8060	0.15%	0.038%
252	15.055	15.041	15.091	VV	525	10213	0.19%	0.048%
253	15.099	15.091	15.127	VV	951	4342	0.08%	0.021%
254	15.176	15.127	15.200	VV	1418	35375	0.65%	0.167%
255	15.217	15.200	15.237	VV	2115	30736	0.57%	0.145%
256	15.261	15.237	15.302	VV	4752	63406	1.17%	0.300%
257	15.320	15.302	15.337	PV	216	2611	0.05%	0.012%
258	15.347	15.337	15.361	PV	149	1043	0.02%	0.005%
259	15.388	15.361	15.412	VV	431	6440	0.12%	0.030%
260	15.418	15.412	15.432	VV	152	1134	0.02%	0.005%
261	15.514	15.469	15.547	VV	465	9236	0.17%	0.044%
262	15.596	15.547	15.675	PV	10482	200332	3.70%	0.946%
263	15.681	15.675	15.684	VV	419	2040	0.04%	0.010%
264	15.699	15.684	15.717	VV	518	8454	0.16%	0.040%
265	15.755	15.717	15.781	VV	3895	68594	1.27%	0.324%
266	15.792	15.781	15.809	VV	529	5998	0.11%	0.028%
267	15.828	15.809	15.834	VV	444	5393	0.10%	0.025%
268	15.865	15.834	15.894	VV	542	14857	0.27%	0.070%
269	15.904	15.894	15.915	VV	366	4151	0.08%	0.020%
270	15.937	15.915	15.972	VV	436	12211	0.23%	0.058%
271	15.975	15.972	15.979	VV	362	1387	0.03%	0.007%
272	15.995	15.979	16.010	VV	348	6075	0.11%	0.029%
273	16.029	16.010	16.035	VV	435	5601	0.10%	0.026%
274	16.057	16.035	16.063	VV	543	7183	0.13%	0.034%
275	16.065	16.063	16.080	VV	441	3824	0.07%	0.018%
276	16.116	16.080	16.147	VV	686	20699	0.38%	0.098%
277	16.151	16.147	16.157	VV	412	2410	0.04%	0.011%
278	16.162	16.157	16.167	VV	426	2190	0.04%	0.010%
279	16.200	16.167	16.215	VV	902	15504	0.29%	0.073%
280	16.238	16.215	16.265	VV	2181	32153	0.59%	0.152%
281	16.269	16.265	16.274	VV	282	1293	0.02%	0.006%
282	16.298	16.274	16.323	VV	924	15322	0.28%	0.072%
283	16.334	16.323	16.357	VV	239	3276	0.06%	0.015%
284	16.407	16.357	16.416	PV	405	8376	0.15%	0.040%
285	16.420	16.416	16.449	VV	342	4229	0.08%	0.020%
286	16.467	16.449	16.516	VV	434	9222	0.17%	0.044%
287	16.617	16.562	16.657	VV	982	23184	0.43%	0.110%
288	16.719	16.657	16.752	VV	1968	47875	0.89%	0.226%
289	16.802	16.752	16.827	VV	1623	36621	0.68%	0.173%
290	16.851	16.827	16.870	VV	1188	21190	0.39%	0.100%
291	16.894	16.870	16.912	VV	616	13771	0.25%	0.065%
292	16.925	16.912	16.935	VV	573	7150	0.13%	0.034%
293	16.942	16.935	16.974	VV	509	8363	0.15%	0.040%
294	16.979	16.974	16.984	VV	257	1346	0.02%	0.006%
295	16.991	16.984	16.997	VV	259	1657	0.03%	0.008%
296	17.016	16.997	17.042	VV	302	5319	0.10%	0.025%
297	17.081	17.042	17.107	PV	466	8564	0.16%	0.040%
298	17.120	17.107	17.126	VV	212	1764	0.03%	0.008%
299	17.151	17.126	17.165	VV	801	9700	0.18%	0.046%

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300	17.188	17.165	17.214	VV	2690	36044	0.67%	0.170%
301	17.238	17.214	17.255	PV	1882	26520	0.49%	0.125%
302	17.263	17.255	17.281	VV	718	8288	0.15%	0.039%
303	17.286	17.281	17.297	VV	389	3115	0.06%	0.015%
304	17.339	17.297	17.345	VV	299	6101	0.11%	0.029%
305	17.379	17.345	17.392	VV	437	8896	0.16%	0.042%
306	17.400	17.392	17.411	VV	349	3792	0.07%	0.018%
307	17.531	17.411	17.539	VV	849	36778	0.68%	0.174%
308	17.560	17.539	17.587	VV	1048	23127	0.43%	0.109%
309	17.638	17.587	17.694	VV	3282	66035	1.22%	0.312%
310	17.747	17.694	17.762	PV	295	8699	0.16%	0.041%
311	17.777	17.762	17.787	VV	172	1301	0.02%	0.006%
312	17.814	17.787	17.832	PV	125	1677	0.03%	0.008%
313	17.861	17.832	17.880	PV	362	5789	0.11%	0.027%
314	17.888	17.880	17.897	VV	209	1639	0.03%	0.008%
315	17.933	17.897	17.961	VV	383	7263	0.13%	0.034%
316	18.075	17.961	18.104	PV	5589	114885	2.12%	0.543%
317	18.115	18.104	18.127	VV	583	7494	0.14%	0.035%
318	18.164	18.127	18.194	VV	4837	74040	1.37%	0.350%
319	18.227	18.194	18.240	VV	586	11327	0.21%	0.054%
320	18.257	18.240	18.281	VV	574	10278	0.19%	0.049%
321	18.313	18.281	18.328	VV	549	11533	0.21%	0.054%
322	18.347	18.328	18.374	VV	666	9863	0.18%	0.047%
323	18.400	18.374	18.410	VV	703	8806	0.16%	0.042%
324	18.438	18.410	18.470	VV	3915	81895	1.51%	0.387%
325	18.499	18.470	18.532	VV	8330	138932	2.57%	0.656%
326	18.598	18.532	18.618	VV	1540	48713	0.90%	0.230%
327	18.630	18.618	18.652	VV	1062	17039	0.32%	0.080%
328	18.661	18.652	18.672	VV	745	8354	0.15%	0.039%
329	18.709	18.672	18.722	VV	1032	23345	0.43%	0.110%
330	18.762	18.722	18.794	VV	901	21860	0.40%	0.103%

Sum of corrected areas: 21168575

Aromatic EPH 111524.M Mon Nov 18 01:02:53 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-3			SDG No.:	P4839
Lab Sample ID:	P4839-19			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84.2
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 20:19	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.19	mg/kg	FE051273.D
Aliphatic C12-C16	Aliphatic C12-C16	0.52	J	1	0.28	0.79	mg/kg	FE051273.D
Aliphatic C16-C21	Aliphatic C16-C21	0.45	J	1	0.36	1.19	mg/kg	FE051273.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	1.58	mg/kg	FE051273.D
Aliphatic C28-C40	Aliphatic C28-C40	4.10		1	2.14	2.37	mg/kg	FE051273.D
Aromatic C10-C12	Aromatic C10-C12	0.36	U	1	0.36	0.79	mg/kg	FF015065.D
Aromatic C12-C16	Aromatic C12-C16	2.72		1	0.40	1.19	mg/kg	FF015065.D
Aromatic C16-C21	Aromatic C16-C21	1.89	J	1	1.14	1.98	mg/kg	FF015065.D
Aromatic C21-C36	Aromatic C21-C36	2.37	U	1	2.37	3.16	mg/kg	FF015065.D
Total AliphaticEPH	Total AliphaticEPH	5.06	J		4.18	7.12	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.61	J		4.27	7.12	mg/kg	
Total EPH	Total EPH	9.67	J		8.45	14.2	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-3			SDG No.:	P4839
Lab Sample ID:	P4839-19			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84.2
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 20:19	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.19	mg/kg	FE051273.D
Aliphatic C12-C16	Aliphatic C12-C16	0.52	J	1	0.28	0.79	mg/kg	FE051273.D
Aliphatic C16-C21	Aliphatic C16-C21	0.45	J	1	0.36	1.19	mg/kg	FE051273.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	1.58	mg/kg	FE051273.D
Aliphatic C28-C40	Aliphatic C28-C40	4.10		1	2.14	2.37	mg/kg	FE051273.D
Aromatic C10-C12	Aromatic C10-C12	0.36	U	1	0.36	0.79	mg/kg	FF015065.D
Aromatic C12-C16	Aromatic C12-C16	2.72		1	0.40	1.19	mg/kg	FF015065.D
Aromatic C16-C21	Aromatic C16-C21	1.89	J	1	1.14	1.98	mg/kg	FF015065.D
Aromatic C21-C36	Aromatic C21-C36	2.37	U	1	2.37	3.16	mg/kg	FF015065.D
Total AliphaticEPH	Total AliphaticEPH	5.06	J		4.18	7.12	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.61	J		4.27	7.12	mg/kg	
Total EPH	Total EPH	9.67	J		8.45	14.2	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-3		SDG No.:	P4839	
Lab Sample ID:	P4839-19		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.2	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051273.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.45	U	0.45	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.52	J	0.28	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.45	J	0.36	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.95	U	0.95	1.58	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		4.10		2.14	2.37	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		39.7		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-19	Acq On:	15 Nov 2024 20:19
Client Sample ID:	EX-4-TPH-3	Operator:	YP\AJ
Data file:	FE051273.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	424569	3.034	300	ug/ml
Aliphatic C12-C16	6.754	10.185	915211	6.508	200	ug/ml
Aliphatic C16-C21	10.186	13.544	782183	5.678	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1199517	8.955	400	ug/ml
Aliphatic C28-C40	17.201	22.043	6669955	51.806	600	ug/ml
Aliphatic EPH	3.134	22.043	9991435	75.981		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.280	13.280	4511828	39.74		ug/ml
Aliphatic C9-C28	3.134	17.200	3321480	24.175	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051273.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 20:19
Operator : YP\AJ
Sample : P4839-19
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-3

Integration File: autoint1.e
Quant Time: Nov 16 08:22:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.280	4511828	39.741 ug/ml
Spiked Amount 50.000		Recovery = 79.48%	
Target Compounds			

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

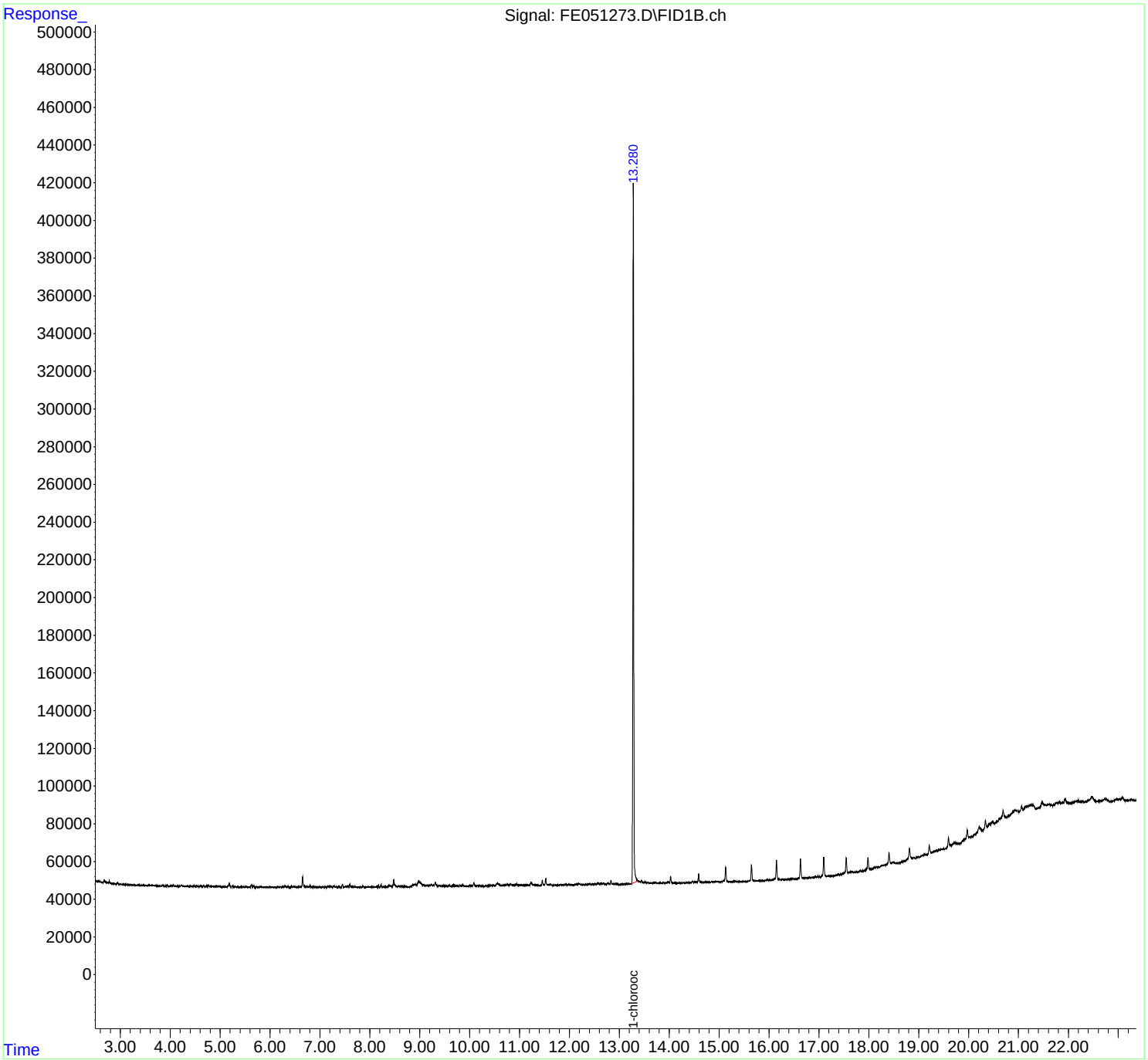
Quantitation Report (QT Reviewed)

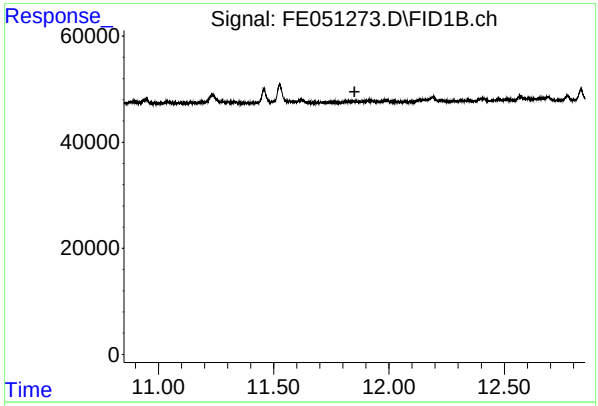
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051273.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 20:19
Operator : YP\AJ
Sample : P4839-19
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-3

Integration File: autoint1.e
Quant Time: Nov 16 08:22:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

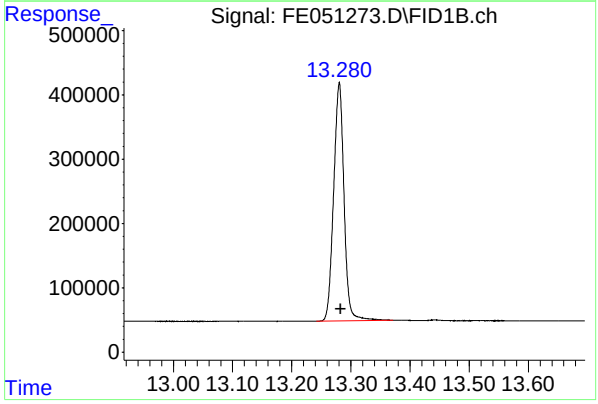




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-3



#12 1-chlorooctadecane (SURR)

R.T.: 13.280 min
Delta R.T.: -0.003 min
Response: 4511828
Conc: 39.74 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051273.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 20:19
Sample : P4839-19
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.240	3.215	3.334	BV	211	4871	0.11%	0.033%
2	3.347	3.334	3.368	PV	94	1203	0.03%	0.008%
3	3.376	3.368	3.407	VV	150	2423	0.05%	0.017%
4	3.447	3.407	3.471	VV	166	3874	0.08%	0.026%
5	3.475	3.471	3.529	VV	148	3003	0.06%	0.021%
6	3.560	3.529	3.602	VV	191	6691	0.14%	0.046%
7	3.622	3.602	3.665	VV	270	5225	0.11%	0.036%
8	3.679	3.665	3.771	VV	223	5633	0.12%	0.039%
9	3.778	3.771	3.805	VV	146	1423	0.03%	0.010%
10	3.838	3.805	3.848	PV	138	2166	0.05%	0.015%
11	3.862	3.848	3.899	VV	199	3275	0.07%	0.022%
12	3.926	3.899	3.978	VV	201	4660	0.10%	0.032%
13	4.025	4.001	4.045	BV	257	3050	0.07%	0.021%
14	4.060	4.045	4.089	VV	454	5196	0.11%	0.036%
15	4.102	4.089	4.120	VV	80	1069	0.02%	0.007%
16	4.134	4.120	4.165	VV	179	2059	0.04%	0.014%
17	4.168	4.165	4.182	PV	104	339	0.01%	0.002%
18	4.195	4.182	4.204	PV	53	831	0.02%	0.006%
19	4.227	4.204	4.275	VV	576	9345	0.20%	0.064%
20	4.281	4.275	4.328	VV	120	1881	0.04%	0.013%
21	4.334	4.328	4.363	VV	111	1352	0.03%	0.009%
22	4.377	4.363	4.408	VV	158	2634	0.06%	0.018%
23	4.432	4.408	4.465	VV	123	3076	0.07%	0.021%
24	4.487	4.465	4.587	VV	559	12814	0.28%	0.088%
25	4.610	4.587	4.639	VV	352	5059	0.11%	0.035%
26	4.672	4.639	4.698	VV	660	9094	0.20%	0.062%
27	4.735	4.698	4.750	VV	589	7940	0.17%	0.054%
28	4.768	4.750	4.815	VV	1126	14822	0.32%	0.101%
29	4.821	4.815	4.829	VV	142	1159	0.03%	0.008%
30	4.843	4.829	4.868	VV	207	3289	0.07%	0.022%
31	4.901	4.868	4.938	VV	291	8624	0.19%	0.059%
32	4.946	4.938	4.961	VV	183	2395	0.05%	0.016%
33	4.992	4.961	5.035	VV	421	9071	0.20%	0.062%
34	5.043	5.035	5.054	VV	154	1424	0.03%	0.010%
35	5.065	5.054	5.078	VV	167	1551	0.03%	0.011%
36	5.096	5.078	5.143	VV	279	6319	0.14%	0.043%

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37	5.184	5.143	5.219	VV	2224	34577	0.75%	0.236%
38	5.244	5.219	5.271	VV	693	10963	0.24%	0.075%
39	5.304	5.271	5.338	VV	273	6638	0.14%	0.045%
40	5.356	5.338	5.380	PV	181	2498	0.05%	0.017%
41	5.400	5.380	5.414	VV	284	3833	0.08%	0.026%
42	5.425	5.414	5.448	VV	153	3004	0.06%	0.021%
43	5.460	5.448	5.474	VV	279	2538	0.05%	0.017%
44	5.496	5.474	5.551	VV	203	6790	0.15%	0.046%
45	5.559	5.551	5.572	VV	145	1327	0.03%	0.009%
46	5.585	5.572	5.599	PV	196	1971	0.04%	0.013%
47	5.625	5.599	5.651	VV	1171	17037	0.37%	0.117%
48	5.664	5.651	5.707	VV	1064	13926	0.30%	0.095%
49	5.727	5.707	5.764	VV	243	4990	0.11%	0.034%
50	5.799	5.764	5.841	VV	340	9644	0.21%	0.066%
51	5.859	5.841	5.871	VV	162	1885	0.04%	0.013%
52	5.883	5.871	5.901	VV	236	2369	0.05%	0.016%
53	5.927	5.901	5.965	VV	451	7928	0.17%	0.054%
54	5.990	5.965	6.023	VV	250	5693	0.12%	0.039%
55	6.030	6.023	6.039	VV	137	1099	0.02%	0.008%
56	6.051	6.039	6.078	VV	152	2038	0.04%	0.014%
57	6.100	6.078	6.135	PV	171	2630	0.06%	0.018%
58	6.151	6.135	6.168	VV	298	2878	0.06%	0.020%
59	6.175	6.168	6.191	VV	106	1432	0.03%	0.010%
60	6.213	6.191	6.231	VV	354	5382	0.12%	0.037%
61	6.254	6.231	6.272	VV	499	6024	0.13%	0.041%
62	6.298	6.272	6.344	VV	817	13614	0.29%	0.093%
63	6.363	6.344	6.395	VV	567	7330	0.16%	0.050%
64	6.438	6.395	6.464	PV	342	7159	0.15%	0.049%
65	6.475	6.464	6.503	VV	168	2644	0.06%	0.018%
66	6.524	6.503	6.572	VV	205	4914	0.11%	0.034%
67	6.605	6.572	6.624	VV	112	2286	0.05%	0.016%
68	6.654	6.624	6.701	VBA	5341	63838	1.38%	0.437%
69	6.736	6.701	6.759	BV	406	4850	0.10%	0.033%
70	6.773	6.759	6.787	PV	265	2943	0.06%	0.020%
71	6.805	6.787	6.827	VV	1025	11443	0.25%	0.078%
72	6.838	6.827	6.860	VV	371	3717	0.08%	0.025%
73	6.879	6.860	6.924	VV	399	5079	0.11%	0.035%
74	6.936	6.924	6.965	PV	142	1785	0.04%	0.012%
75	6.985	6.965	7.020	VV	103	2808	0.06%	0.019%
76	7.045	7.020	7.085	VV	168	3364	0.07%	0.023%
77	7.104	7.085	7.138	PV	413	5616	0.12%	0.038%
78	7.160	7.138	7.175	VV	612	8693	0.19%	0.059%
79	7.185	7.175	7.198	VV	469	5269	0.11%	0.036%
80	7.225	7.198	7.254	VV	565	11938	0.26%	0.082%
81	7.287	7.254	7.311	VV	829	15130	0.33%	0.103%
82	7.330	7.311	7.351	VV	329	5028	0.11%	0.034%
83	7.372	7.351	7.425	VV	523	10794	0.23%	0.074%
84	7.453	7.425	7.485	VV	1692	21614	0.47%	0.148%
85	7.534	7.485	7.551	VV	391	11792	0.25%	0.081%
86	7.563	7.551	7.578	VV	522	6920	0.15%	0.047%
87	7.600	7.578	7.645	VV	1213	23079	0.50%	0.158%
88	7.656	7.645	7.677	VV	388	6221	0.13%	0.043%
89	7.690	7.677	7.748	VV	546	9289	0.20%	0.064%

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90	7.769	7.748	7.792	VV	204	3719	0.08%	0.025%
91	7.803	7.792	7.838	VV	113	2108	0.05%	0.014%
92	7.861	7.838	7.900	PV	795	9428	0.20%	0.064%
93	7.940	7.900	7.991	VV	247	8117	0.18%	0.056%
94	8.034	7.991	8.048	VV	316	6511	0.14%	0.045%
95	8.086	8.048	8.110	VV	314	7727	0.17%	0.053%
96	8.127	8.110	8.145	VV	292	4038	0.09%	0.028%
97	8.172	8.145	8.201	VV	939	13055	0.28%	0.089%
98	8.229	8.201	8.281	VV	1533	21847	0.47%	0.149%
99	8.298	8.281	8.318	VV	385	4474	0.10%	0.031%
100	8.390	8.318	8.448	VV	849	31523	0.68%	0.216%
101	8.480	8.448	8.551	VV	4039	70261	1.52%	0.480%
102	8.579	8.551	8.609	VV	544	13787	0.30%	0.094%
103	8.630	8.609	8.652	VV	687	9924	0.21%	0.068%
104	8.671	8.652	8.690	VV	440	5533	0.12%	0.038%
105	8.711	8.690	8.755	VV	437	7204	0.16%	0.049%
106	8.764	8.755	8.781	VV	163	1351	0.03%	0.009%
107	8.898	8.781	8.915	VV	1186	52387	1.13%	0.358%
108	8.977	8.915	9.005	VV	2910	100841	2.18%	0.690%
109	9.017	9.005	9.075	VV	2321	62200	1.34%	0.425%
110	9.078	9.075	9.117	VV	1007	19261	0.42%	0.132%
111	9.133	9.117	9.161	VV	725	16332	0.35%	0.112%
112	9.170	9.161	9.180	VV	574	6151	0.13%	0.042%
113	9.219	9.180	9.231	VV	1080	24481	0.53%	0.167%
114	9.238	9.231	9.279	VV	1147	23283	0.50%	0.159%
115	9.315	9.279	9.370	VV	2058	50417	1.09%	0.345%
116	9.391	9.370	9.415	VV	693	11703	0.25%	0.080%
117	9.437	9.415	9.478	VV	472	11530	0.25%	0.079%
118	9.494	9.478	9.505	VV	325	5025	0.11%	0.034%
119	9.520	9.505	9.530	VV	350	4870	0.11%	0.033%
120	9.543	9.530	9.558	VV	362	5068	0.11%	0.035%
121	9.565	9.558	9.574	VV	309	2403	0.05%	0.016%
122	9.603	9.574	9.647	VV	624	15169	0.33%	0.104%
123	9.669	9.647	9.707	VV	932	17978	0.39%	0.123%
124	9.725	9.707	9.751	VV	438	8583	0.19%	0.059%
125	9.764	9.751	9.789	VV	340	5923	0.13%	0.041%
126	9.813	9.789	9.843	VV	586	10850	0.23%	0.074%
127	9.864	9.843	9.913	VV	1007	15191	0.33%	0.104%
128	9.925	9.913	9.935	VV	121	908	0.02%	0.006%
129	9.958	9.935	9.979	VV	195	2483	0.05%	0.017%
130	10.008	9.979	10.058	VV	629	12833	0.28%	0.088%
131	10.085	10.058	10.141	VV	1753	29348	0.63%	0.201%
132	10.158	10.141	10.198	VV	289	6864	0.15%	0.047%
133	10.209	10.198	10.225	VV	161	1861	0.04%	0.013%
134	10.232	10.225	10.251	VV	117	1220	0.03%	0.008%
135	10.263	10.251	10.295	VV	164	1627	0.04%	0.011%
136	10.317	10.295	10.375	PV	172	4664	0.10%	0.032%
137	10.402	10.375	10.418	VV	324	5204	0.11%	0.036%
138	10.432	10.418	10.445	VV	279	3450	0.07%	0.024%
139	10.475	10.445	10.498	VV	704	13225	0.29%	0.090%
140	10.552	10.498	10.648	VV	1348	60883	1.31%	0.416%
141	10.659	10.648	10.668	VV	310	3616	0.08%	0.025%

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142	10.710	10.668	10.733	VV	508	17421	0.38%	0.119%
143	10.756	10.733	10.783	VV	787	16894	0.36%	0.116%
144	10.824	10.783	10.860	VV	1062	26345	0.57%	0.180%
145	10.897	10.860	10.921	VV	542	14410	0.31%	0.099%
146	10.946	10.921	11.001	VV	940	20572	0.44%	0.141%
147	11.038	11.001	11.105	VV	442	14576	0.31%	0.100%
148	11.118	11.105	11.126	VV	196	2347	0.05%	0.016%
149	11.143	11.126	11.173	VV	303	6665	0.14%	0.046%
150	11.191	11.173	11.200	VV	394	4726	0.10%	0.032%
151	11.234	11.200	11.295	VV	1712	42444	0.92%	0.290%
152	11.306	11.295	11.318	VV	303	3803	0.08%	0.026%
153	11.327	11.318	11.368	VV	325	5560	0.12%	0.038%
154	11.418	11.368	11.431	VV	149	4086	0.09%	0.028%
155	11.458	11.431	11.488	VV	2738	37975	0.82%	0.260%
156	11.526	11.488	11.600	VV	3516	64216	1.39%	0.439%
157	11.621	11.600	11.663	VV	597	11826	0.26%	0.081%
158	11.680	11.663	11.690	VV	145	1535	0.03%	0.010%
159	11.716	11.690	11.738	VV	136	2896	0.06%	0.020%
160	11.746	11.738	11.796	VV	185	3785	0.08%	0.026%
161	11.848	11.796	11.881	VV	291	10847	0.23%	0.074%
162	11.915	11.881	11.961	VV	440	12473	0.27%	0.085%
163	11.990	11.961	12.065	VV	432	12382	0.27%	0.085%
164	12.134	12.065	12.149	VV	485	11507	0.25%	0.079%
165	12.190	12.149	12.218	VV	888	23191	0.50%	0.159%
166	12.229	12.218	12.264	VV	335	6260	0.14%	0.043%
167	12.284	12.264	12.301	VV	259	3890	0.08%	0.027%
168	12.326	12.301	12.338	VV	262	4554	0.10%	0.031%
169	12.345	12.338	12.375	VV	308	4869	0.11%	0.033%
170	12.405	12.375	12.445	VV	650	15940	0.34%	0.109%
171	12.474	12.445	12.495	VV	538	9674	0.21%	0.066%
172	12.514	12.495	12.538	VV	530	9580	0.21%	0.066%
173	12.569	12.538	12.628	VV	1020	29623	0.64%	0.203%
174	12.689	12.628	12.732	VV	814	30338	0.65%	0.207%
175	12.774	12.732	12.798	VV	1033	18072	0.39%	0.124%
176	12.833	12.798	12.915	VV	2236	41558	0.90%	0.284%
177	12.951	12.915	13.020	VV	388	13829	0.30%	0.095%
178	13.046	13.020	13.058	PV	109	1402	0.03%	0.010%
179	13.100	13.058	13.137	VV	266	7217	0.16%	0.049%
180	13.157	13.137	13.175	VV	294	4509	0.10%	0.031%
181	13.192	13.175	13.207	VV	257	3575	0.08%	0.024%
182	13.226	13.207	13.245	VV	282	5332	0.12%	0.036%
183	13.280	13.245	13.421	VV	372382	4632309	100.00%	31.677%
184	13.442	13.421	13.493	VV	2002	51355	1.11%	0.351%
185	13.513	13.493	13.620	VV	945	52374	1.13%	0.358%
186	13.642	13.620	13.679	VV	527	15907	0.34%	0.109%
187	13.716	13.679	13.805	VV	640	31141	0.67%	0.213%
188	13.825	13.805	13.851	VV	398	9144	0.20%	0.063%
189	13.882	13.851	13.915	VV	433	12684	0.27%	0.087%
190	13.940	13.915	13.951	VV	403	6935	0.15%	0.047%
191	13.978	13.951	13.998	VV	986	16827	0.36%	0.115%
192	14.028	13.998	14.078	VV	3625	53518	1.16%	0.366%
193	14.087	14.078	14.105	VV	305	3239	0.07%	0.022%
194	14.115	14.105	14.154	VV	175	3372	0.07%	0.023%

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195	14.182	14.154	14.224	VV	133	3723	0.08%	0.025%
196	14.263	14.224	14.308	PV	210	6460	0.14%	0.044%
197	14.318	14.308	14.326	VV	176	1402	0.03%	0.010%
198	14.331	14.326	14.342	VV	126	1000	0.02%	0.007%
199	14.362	14.342	14.378	VV	141	2276	0.05%	0.016%
200	14.395	14.378	14.431	VV	158	4200	0.09%	0.029%
201	14.468	14.431	14.497	VV	917	17224	0.37%	0.118%
202	14.543	14.497	14.563	VV	503	14218	0.31%	0.097%
203	14.590	14.563	14.665	VV	4817	70846	1.53%	0.484%
204	14.739	14.665	14.772	VV	353	16801	0.36%	0.115%
205	14.787	14.772	14.808	VV	260	3947	0.09%	0.027%
206	14.848	14.808	14.857	VV	246	5355	0.12%	0.037%
207	14.883	14.857	14.921	VV	373	10775	0.23%	0.074%
208	14.938	14.921	14.956	VV	372	5489	0.12%	0.038%
209	14.977	14.956	15.008	VV	306	7358	0.16%	0.050%
210	15.087	15.008	15.105	VV	1031	22003	0.47%	0.150%
211	15.130	15.105	15.215	VV	7862	119117	2.57%	0.815%
212	15.222	15.215	15.241	VV	200	2759	0.06%	0.019%
213	15.252	15.241	15.266	VV	185	2161	0.05%	0.015%
214	15.311	15.266	15.401	VV	287	12340	0.27%	0.084%
215	15.467	15.401	15.487	VV	165	4759	0.10%	0.033%
216	15.556	15.487	15.581	PV	128	5703	0.12%	0.039%
217	15.648	15.581	15.697	VV	8504	125190	2.70%	0.856%
218	15.707	15.697	15.754	VV	299	4558	0.10%	0.031%
219	15.779	15.754	15.808	VV	137	2440	0.05%	0.017%
220	15.885	15.808	15.905	VV	100	4771	0.10%	0.033%
221	15.971	15.905	15.995	PV	508	10966	0.24%	0.075%
222	16.012	15.995	16.063	VV	305	7334	0.16%	0.050%
223	16.110	16.063	16.121	VV	702	12715	0.27%	0.087%
224	16.149	16.121	16.258	VV	10551	158594	3.42%	1.084%
225	16.283	16.258	16.315	VV	162	3677	0.08%	0.025%
226	16.319	16.315	16.324	VV	140	587	0.01%	0.004%
227	16.336	16.324	16.382	VV	178	3759	0.08%	0.026%
228	16.461	16.382	16.491	VV	338	7399	0.16%	0.051%
229	16.506	16.491	16.527	VV	216	3060	0.07%	0.021%
230	16.538	16.527	16.558	VV	144	1274	0.03%	0.009%
231	16.630	16.558	16.698	PV	10577	159635	3.45%	1.092%
232	16.797	16.698	16.815	VV	273	8524	0.18%	0.058%
233	16.849	16.815	16.861	VV	143	2663	0.06%	0.018%
234	16.872	16.861	16.888	VV	98	945	0.02%	0.006%
235	16.932	16.888	16.952	VV	605	9747	0.21%	0.067%
236	16.981	16.952	17.001	VV	430	7390	0.16%	0.051%
237	17.019	17.001	17.031	VV	191	2357	0.05%	0.016%
238	17.097	17.031	17.152	VV	10483	161920	3.50%	1.107%
239	17.194	17.152	17.229	VV	215	7329	0.16%	0.050%
240	17.256	17.229	17.278	VV	103	1674	0.04%	0.011%
241	17.335	17.278	17.348	PV	130	3473	0.07%	0.024%
242	17.388	17.348	17.408	PV	469	6976	0.15%	0.048%
243	17.547	17.408	17.605	PV	8393	157242	3.39%	1.075%
244	17.645	17.605	17.711	VV	727	30008	0.65%	0.205%
245	17.749	17.711	17.771	VV	279	7390	0.16%	0.051%
246	17.827	17.771	17.854	VV	512	8274	0.18%	0.057%

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247	17.874	17.854	17.898	VV	230	3103	0.07%	0.021%
248	17.983	17.898	18.018	PV	6707	107392	2.32%	0.734%
249	18.023	18.018	18.055	VV	357	5907	0.13%	0.040%
250	18.124	18.055	18.135	VV	707	19101	0.41%	0.131%
251	18.158	18.135	18.180	VV	685	15797	0.34%	0.108%
252	18.193	18.180	18.207	VV	392	5625	0.12%	0.038%
253	18.261	18.207	18.278	VV	842	23341	0.50%	0.160%
254	18.405	18.278	18.439	VV	6768	159563	3.44%	1.091%
255	18.489	18.439	18.600	VV	1445	66689	1.44%	0.456%
256	18.814	18.600	18.883	PV	6203	162088	3.50%	1.108%
257	18.911	18.883	18.935	VV	463	11151	0.24%	0.076%
258	18.993	18.935	19.001	VV	117	7140	0.15%	0.049%
259	19.119	19.001	19.128	PV	657	20192	0.44%	0.138%
260	19.147	19.128	19.167	VV	344	6595	0.14%	0.045%
261	19.212	19.167	19.261	PV	4714	86532	1.87%	0.592%
262	19.344	19.261	19.361	VV	676	31529	0.68%	0.216%
263	19.418	19.361	19.426	VV	503	16584	0.36%	0.113%
264	19.461	19.426	19.474	VV	533	12540	0.27%	0.086%
265	19.508	19.474	19.530	VV	263	6059	0.13%	0.041%
266	19.597	19.530	19.651	PV	5355	105580	2.28%	0.722%
267	19.723	19.651	19.802	VV	1423	82417	1.78%	0.564%
268	19.901	19.802	19.914	VV	1399	38300	0.83%	0.262%
269	19.973	19.914	20.032	VV	5867	171589	3.70%	1.173%
270	20.041	20.032	20.049	VV	1479	13720	0.30%	0.094%
271	20.213	20.049	20.278	VV	5176	363217	7.84%	2.484%
272	20.338	20.278	20.366	VV	7530	223621	4.83%	1.529%
273	20.485	20.366	20.522	VV	5291	428496	9.25%	2.930%
274	20.693	20.522	20.756	VV	9275	788463	17.02%	5.392%
275	20.937	20.756	21.005	VV	6967	904339	19.52%	6.184%
276	21.062	21.005	21.091	VV	8056	330966	7.14%	2.263%
277	21.236	21.091	21.350	VV	7108	978104	21.11%	6.688%
278	21.474	21.350	21.555	VV	6072	547738	11.82%	3.746%
279	21.600	21.555	21.688	VV	3695	264054	5.70%	1.806%
280	21.764	21.688	21.784	VV	2943	156134	3.37%	1.068%
281	21.824	21.784	21.845	VV	2692	93843	2.03%	0.642%
282	21.870	21.845	21.891	VV	2205	57742	1.25%	0.395%
283	21.936	21.891	22.051	VV	3278	139667	3.02%	0.955%

Sum of corrected areas: 14623741

Aliphatic EPH 110724.M Sat Nov 16 11:27:49 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-3		SDG No.:	P4839	
Lab Sample ID:	P4839-19		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.2	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF015065.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.36	U	0.36	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	2.72		0.40	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.89	J	1.14	1.98	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.37	U	2.37	3.16	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.8		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.1		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.7		40 - 140	85%	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:	P4839-19	Acq On:	15 Nov 2024 17:04
Client Sample ID:	EX-4-TPH-3	Operator:	YP\AJ
Data file:	FF015065.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	4.507	6.371	375173	2.743	200	ug/ml
Aromatic C12-C16	6.372	9.062	4637230	34.344	300	ug/ml
Aromatic C16-C21	9.063	13.374	3059220	23.92	500	ug/ml
Aromatic C21-C36	13.375	18.817	1825207	14.976	800	ug/ml
Aromatic EPH	4.507	18.817	9896830	75.983		ug/ml
2-Bromonaphthalene (SURR)	7.991	7.991	6323154	51.78		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	4090243	50.1		ug/ml
ortho-Terphenyl (SURR)	11.927	11.927	5728643	42.7		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015065.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:04
Operator : YP\AJ
Sample : P4839-19
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-3

Integration File: autoint1.e
Quant Time: Nov 18 00:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.991	6323154	51.780 ug/ml
Spiked Amount 50.000		Recovery = 103.56%	
6) S 2-Flurobiphenyl (SURR)	8.865	4090243	50.100 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 100.20%	
11) S ortho-Terphenyl (SURR)	11.927	5728643	42.705 ug/ml
Spiked Amount 50.000		Recovery = 85.41%	
Target Compounds			

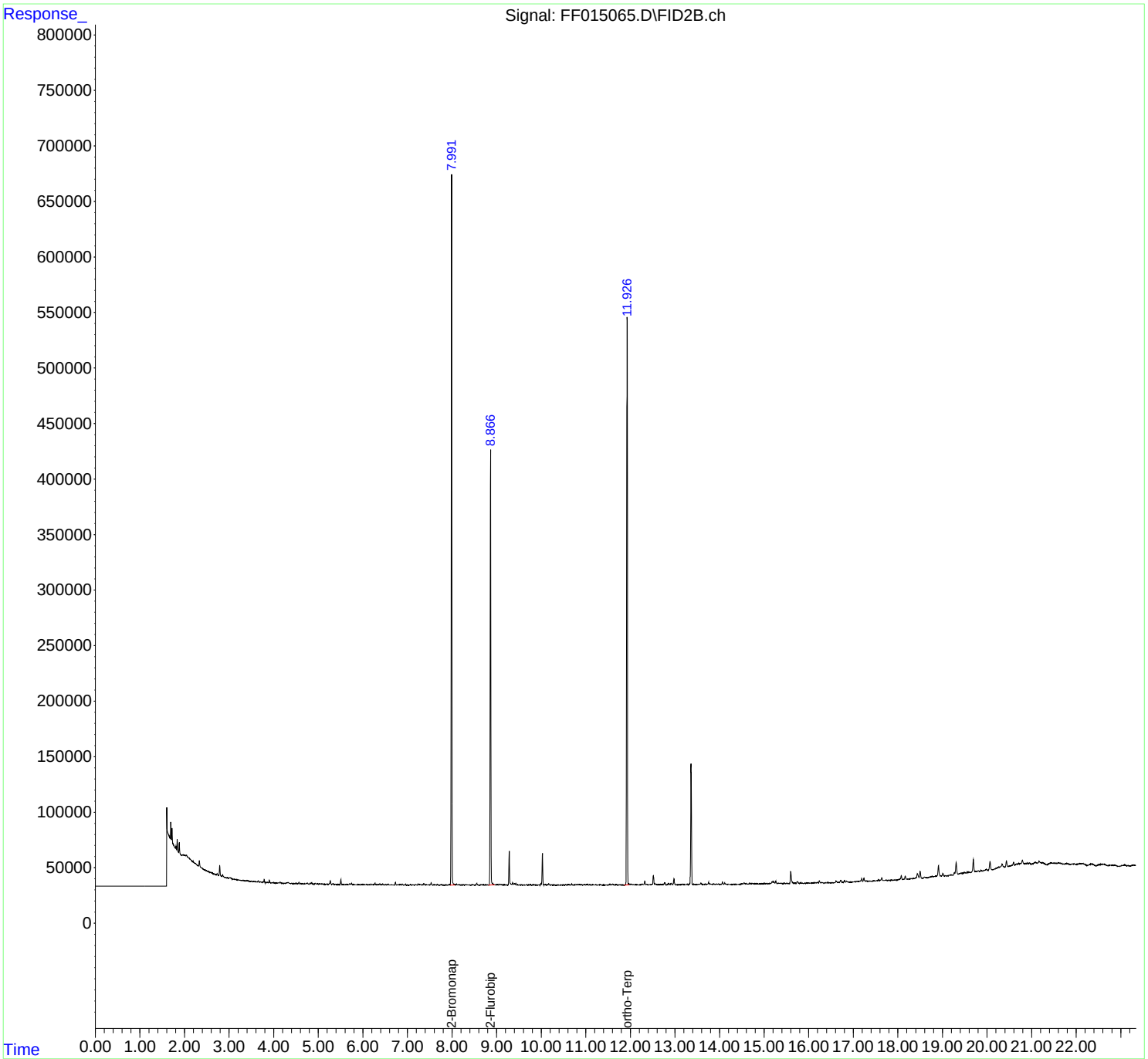
(f)=RT Delta > 1/2 Window (m)=manual int.

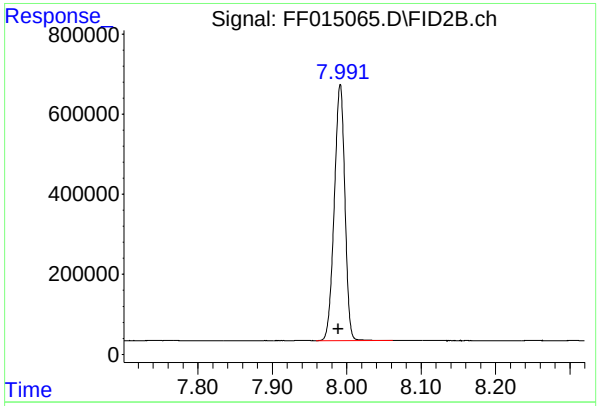
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015065.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:04
Operator : YP\AJ
Sample : P4839-19
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-3

Integration File: autoint1.e
Quant Time: Nov 18 00:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

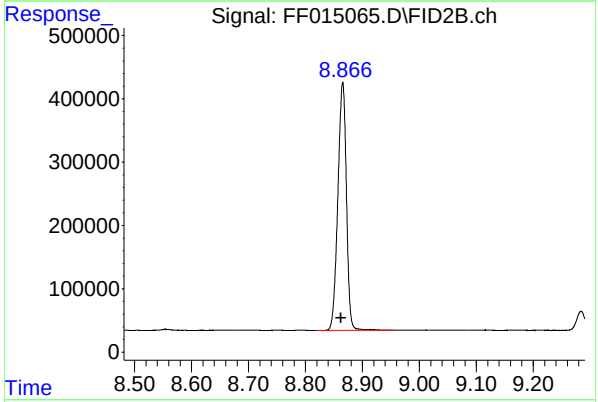




#4 2-Bromonaphthalene (SURR)

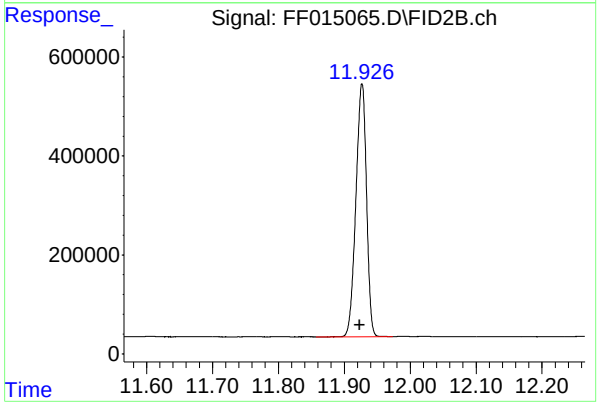
R.T.: 7.991 min
Delta R.T.: 0.002 min
Response: 6323154
Conc: 51.78 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-3



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.003 min
Response: 4090243
Conc: 50.10 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.927 min
Delta R.T.: 0.004 min
Response: 5728643
Conc: 42.70 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015065.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:04
Sample : P4839-19
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.421	4.400	4.444	BV	102	1423	0.02%	0.006%
2	4.456	4.444	4.470	PV	221	1938	0.03%	0.009%
3	4.514	4.470	4.544	VV	542	9325	0.15%	0.042%
4	4.569	4.544	4.589	VV	1454	16298	0.26%	0.074%
5	4.606	4.589	4.632	VV	437	5808	0.09%	0.026%
6	4.654	4.632	4.680	VV	485	6724	0.11%	0.031%
7	4.695	4.680	4.710	VV	375	3446	0.05%	0.016%
8	4.733	4.710	4.744	VV	743	7721	0.12%	0.035%
9	4.757	4.744	4.783	VV	990	10942	0.17%	0.050%
10	4.792	4.783	4.800	VV	160	1013	0.02%	0.005%
11	4.821	4.800	4.837	VV	952	9465	0.15%	0.043%
12	4.854	4.837	4.877	VV	1525	15689	0.25%	0.071%
13	4.929	4.877	4.956	VV	819	13852	0.22%	0.063%
14	4.961	4.956	4.963	VV	271	1026	0.02%	0.005%
15	4.979	4.963	5.007	VV	417	7400	0.12%	0.034%
16	5.014	5.007	5.019	VV	242	1215	0.02%	0.006%
17	5.029	5.019	5.043	VV	264	2642	0.04%	0.012%
18	5.062	5.043	5.102	VV	611	9950	0.16%	0.045%
19	5.114	5.102	5.140	VV	237	2892	0.05%	0.013%
20	5.147	5.140	5.162	VV	145	1021	0.02%	0.005%
21	5.185	5.162	5.212	VV	291	4567	0.07%	0.021%
22	5.242	5.225	5.250	VV	644	6080	0.10%	0.028%
23	5.270	5.250	5.307	VV	3375	41709	0.66%	0.190%
24	5.329	5.307	5.346	VV	941	11080	0.17%	0.050%
25	5.355	5.346	5.367	VV	261	2323	0.04%	0.011%
26	5.381	5.367	5.432	VV	391	5004	0.08%	0.023%
27	5.478	5.455	5.488	VV	244	3042	0.05%	0.014%
28	5.507	5.488	5.547	VV	4531	46365	0.73%	0.211%
29	5.551	5.547	5.570	VV	209	2374	0.04%	0.011%
30	5.580	5.570	5.594	VV	170	1629	0.03%	0.007%
31	5.608	5.602	5.628	VV	151	1662	0.03%	0.008%
32	5.650	5.628	5.657	PV	235	2219	0.03%	0.010%
33	5.662	5.657	5.684	VV	178	2320	0.04%	0.011%
34	5.703	5.684	5.723	VV	1006	12300	0.19%	0.056%
35	5.747	5.723	5.768	VV	1188	17218	0.27%	0.078%
36	5.778	5.768	5.795	VV	271	2941	0.05%	0.013%

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37	5.807	5.795	5.837	VV	405	5102	0.08%	0.023%
38	5.844	5.837	5.859	VV	143	1434	0.02%	0.007%
39	5.892	5.859	5.900	VV	355	4753	0.07%	0.022%
40	5.907	5.900	5.934	VV	330	2417	0.04%	0.011%
41	5.961	5.934	5.979	PV	326	4386	0.07%	0.020%
42	5.996	5.979	6.041	VV	358	7823	0.12%	0.036%
43	6.057	6.041	6.064	VV	247	2417	0.04%	0.011%
44	6.080	6.064	6.107	VV	409	6449	0.10%	0.029%
45	6.112	6.107	6.127	VV	166	1311	0.02%	0.006%
46	6.139	6.127	6.156	VV	229	2391	0.04%	0.011%
47	6.183	6.156	6.200	VV	925	10512	0.17%	0.048%
48	6.213	6.200	6.229	VV	367	4256	0.07%	0.019%
49	6.233	6.229	6.248	VV	266	2386	0.04%	0.011%
50	6.272	6.248	6.319	VV	1709	24149	0.38%	0.110%
51	6.333	6.319	6.350	VV	527	6125	0.10%	0.028%
52	6.377	6.357	6.413	VV	1015	14587	0.23%	0.066%
53	6.445	6.413	6.478	VV	1151	16870	0.27%	0.077%
54	6.486	6.478	6.490	VV	192	1153	0.02%	0.005%
55	6.499	6.490	6.511	VV	336	3817	0.06%	0.017%
56	6.519	6.511	6.548	VV	430	6048	0.10%	0.028%
57	6.570	6.548	6.612	VV	1042	13625	0.21%	0.062%
58	6.616	6.612	6.629	VV	176	1205	0.02%	0.005%
59	6.647	6.629	6.677	VV	267	4845	0.08%	0.022%
60	6.682	6.677	6.689	VV	208	1223	0.02%	0.006%
61	6.693	6.689	6.707	VV	237	1368	0.02%	0.006%
62	6.731	6.707	6.754	VV	2529	27726	0.44%	0.126%
63	6.767	6.754	6.781	VV	390	4012	0.06%	0.018%
64	6.791	6.781	6.802	VV	346	3319	0.05%	0.015%
65	6.816	6.802	6.836	VV	602	8151	0.13%	0.037%
66	6.851	6.836	6.866	VV	543	6073	0.10%	0.028%
67	6.885	6.866	6.904	VV	1163	12836	0.20%	0.058%
68	6.920	6.904	6.938	VV	386	4702	0.07%	0.021%
69	6.958	6.938	6.977	PV	602	6921	0.11%	0.031%
70	7.020	6.977	7.031	VV	177	3998	0.06%	0.018%
71	7.062	7.031	7.094	VV	322	7052	0.11%	0.032%
72	7.113	7.094	7.162	VV	438	9699	0.15%	0.044%
73	7.186	7.162	7.215	VV	686	10379	0.16%	0.047%
74	7.240	7.215	7.262	VV	1020	17379	0.27%	0.079%
75	7.263	7.262	7.275	VV	596	4116	0.06%	0.019%
76	7.289	7.275	7.295	VV	689	7153	0.11%	0.033%
77	7.303	7.295	7.335	VV	740	10170	0.16%	0.046%
78	7.368	7.335	7.397	VV	1543	26301	0.41%	0.120%
79	7.405	7.397	7.416	VV	361	3537	0.06%	0.016%
80	7.419	7.416	7.436	VV	344	3088	0.05%	0.014%
81	7.452	7.436	7.465	VV	460	5530	0.09%	0.025%
82	7.477	7.465	7.494	VV	450	4786	0.08%	0.022%
83	7.502	7.494	7.511	VV	339	2843	0.04%	0.013%
84	7.533	7.511	7.564	VV	2211	28287	0.45%	0.129%
85	7.593	7.564	7.604	VV	474	7161	0.11%	0.033%
86	7.609	7.604	7.623	VV	368	3720	0.06%	0.017%
87	7.641	7.623	7.655	VV	488	6218	0.10%	0.028%
88	7.675	7.655	7.701	VV	836	11399	0.18%	0.052%
89	7.709	7.701	7.722	VV	266	2302	0.04%	0.010%

90	7.741	7.722	7.753	VV	422	6005	0.09%	0.027%
91	7.768	7.753	7.789	VV	533	6659	0.11%	0.030%
92	7.812	7.800	7.823	VV	166	1708	0.03%	0.008%
93	7.842	7.823	7.867	VV	193	3450	0.05%	0.016%
94	7.890	7.867	7.897	VV	274	2846	0.04%	0.013%
95	7.915	7.897	7.925	VV	300	3820	0.06%	0.017%
96	7.941	7.925	7.958	VV	853	9382	0.15%	0.043%
97	7.991	7.958	8.071	VV	642236	6340921	100.00%	28.840%
98	8.085	8.071	8.097	VV	900	11412	0.18%	0.052%
99	8.101	8.097	8.156	VV	840	14932	0.24%	0.068%
100	8.162	8.156	8.187	VV	375	3924	0.06%	0.018%
101	8.204	8.187	8.230	VV	242	4107	0.06%	0.019%
102	8.249	8.230	8.282	VV	633	9329	0.15%	0.042%
103	8.306	8.282	8.319	VV	443	6285	0.10%	0.029%
104	8.329	8.319	8.349	VV	427	5344	0.08%	0.024%
105	8.352	8.349	8.366	VV	350	2949	0.05%	0.013%
106	8.372	8.366	8.392	VV	286	3198	0.05%	0.015%
107	8.395	8.392	8.414	VV	149	1286	0.02%	0.006%
108	8.450	8.422	8.470	VV	668	10830	0.17%	0.049%
109	8.478	8.470	8.485	VV	462	3481	0.05%	0.016%
110	8.486	8.485	8.495	VV	363	1324	0.02%	0.006%
111	8.505	8.495	8.525	VV	251	3467	0.05%	0.016%
112	8.555	8.525	8.585	VV	1732	25324	0.40%	0.115%
113	8.589	8.585	8.603	VV	296	2272	0.04%	0.010%
114	8.615	8.603	8.629	VV	317	3413	0.05%	0.016%
115	8.656	8.629	8.682	VV	546	12475	0.20%	0.057%
116	8.702	8.682	8.734	VV	540	11127	0.18%	0.051%
117	8.754	8.734	8.773	VV	410	5803	0.09%	0.026%
118	8.792	8.773	8.827	VV	499	6265	0.10%	0.028%
119	8.866	8.827	8.957	PV	392174	4109562	64.81%	18.691%
120	8.965	8.957	8.976	VV	555	5577	0.09%	0.025%
121	9.013	8.976	9.034	VV	705	19275	0.30%	0.088%
122	9.049	9.034	9.058	VV	520	6800	0.11%	0.031%
123	9.071	9.058	9.085	VV	659	9158	0.14%	0.042%
124	9.115	9.085	9.142	VV	776	17403	0.27%	0.079%
125	9.162	9.142	9.197	VV	443	10194	0.16%	0.046%
126	9.212	9.197	9.230	VV	427	5799	0.09%	0.026%
127	9.284	9.230	9.344	VV	30421	347410	5.48%	1.580%
128	9.362	9.344	9.384	VV	2143	31049	0.49%	0.141%
129	9.400	9.384	9.418	VV	1604	24647	0.39%	0.112%
130	9.433	9.418	9.454	VV	1813	22776	0.36%	0.104%
131	9.472	9.454	9.497	VV	513	6379	0.10%	0.029%
132	9.521	9.497	9.547	VV	444	7260	0.11%	0.033%
133	9.567	9.547	9.594	VV	407	7650	0.12%	0.035%
134	9.604	9.594	9.643	VV	348	5951	0.09%	0.027%
135	9.668	9.643	9.704	VV	533	10291	0.16%	0.047%
136	9.715	9.704	9.727	VV	243	2646	0.04%	0.012%
137	9.749	9.727	9.796	VV	829	13209	0.21%	0.060%
138	9.828	9.796	9.842	VV	409	7281	0.11%	0.033%
139	9.849	9.842	9.871	VV	343	3773	0.06%	0.017%
140	9.888	9.871	9.910	VV	329	4973	0.08%	0.023%
141	9.947	9.919	9.970	VV	314	6528	0.10%	0.030%

142	9.997	9.970	10.008	VV	1844	21963	0.35%	0.100%
143	10.029	10.008	10.060	VV	28619	306049	4.83%	1.392%
144	10.085	10.060	10.089	VV	587	7320	0.12%	0.033%
145	10.099	10.089	10.120	VV	626	7033	0.11%	0.032%
146	10.125	10.120	10.135	VV	185	1084	0.02%	0.005%
147	10.162	10.135	10.216	VV	1162	22362	0.35%	0.102%
148	10.235	10.216	10.270	VV	342	6710	0.11%	0.031%
149	10.274	10.270	10.296	VV	243	1853	0.03%	0.008%
150	10.325	10.296	10.347	VV	177	4075	0.06%	0.019%
151	10.358	10.347	10.379	VV	307	3076	0.05%	0.014%
152	10.440	10.406	10.464	VV	141	2271	0.04%	0.010%
153	10.494	10.464	10.509	VV	387	6422	0.10%	0.029%
154	10.557	10.519	10.576	VV	424	8115	0.13%	0.037%
155	10.583	10.576	10.585	VV	362	1409	0.02%	0.006%
156	10.589	10.585	10.592	VV	402	1590	0.03%	0.007%
157	10.598	10.592	10.619	VV	475	6213	0.10%	0.028%
158	10.624	10.619	10.655	VV	472	7089	0.11%	0.032%
159	10.683	10.655	10.702	VV	1241	16968	0.27%	0.077%
160	10.720	10.702	10.732	VV	331	4357	0.07%	0.020%
161	10.757	10.732	10.764	VV	477	6970	0.11%	0.032%
162	10.768	10.764	10.773	VV	473	2270	0.04%	0.010%
163	10.786	10.773	10.800	VV	569	8046	0.13%	0.037%
164	10.804	10.800	10.818	VV	556	5083	0.08%	0.023%
165	10.830	10.818	10.839	VV	594	5911	0.09%	0.027%
166	10.852	10.839	10.871	VV	691	10254	0.16%	0.047%
167	10.902	10.871	10.911	VV	684	11966	0.19%	0.054%
168	10.915	10.911	10.935	VV	533	5589	0.09%	0.025%
169	10.956	10.935	10.973	VV	543	8134	0.13%	0.037%
170	11.029	10.973	11.070	VV	873	28220	0.45%	0.128%
171	11.093	11.070	11.105	VV	399	6417	0.10%	0.029%
172	11.123	11.105	11.136	VV	441	6005	0.09%	0.027%
173	11.153	11.136	11.172	VV	853	11070	0.17%	0.050%
174	11.184	11.172	11.210	VV	295	5226	0.08%	0.024%
175	11.233	11.210	11.254	VV	400	7031	0.11%	0.032%
176	11.273	11.254	11.290	VV	325	5202	0.08%	0.024%
177	11.307	11.290	11.318	VV	428	6125	0.10%	0.028%
178	11.331	11.318	11.383	VV	505	9810	0.15%	0.045%
179	11.397	11.383	11.427	VV	139	2793	0.04%	0.013%
180	11.440	11.427	11.453	VV	252	3333	0.05%	0.015%
181	11.466	11.453	11.489	VV	334	4037	0.06%	0.018%
182	11.499	11.489	11.507	PV	178	1133	0.02%	0.005%
183	11.537	11.507	11.560	VV	1059	16590	0.26%	0.075%
184	11.574	11.560	11.587	VV	502	6009	0.09%	0.027%
185	11.605	11.587	11.638	VV	1134	16563	0.26%	0.075%
186	11.681	11.638	11.730	VV	610	14809	0.23%	0.067%
187	11.762	11.730	11.782	VV	472	6900	0.11%	0.031%
188	11.804	11.782	11.821	VV	360	4743	0.07%	0.022%
189	11.844	11.821	11.868	VV	234	2740	0.04%	0.012%
190	11.927	11.868	11.972	PV	511933	5745816	90.61%	26.133%
191	11.990	11.972	12.007	VV	1096	15710	0.25%	0.071%
192	12.022	12.007	12.045	VV	1163	17143	0.27%	0.078%
193	12.061	12.045	12.092	VV	508	11317	0.18%	0.051%
194	12.107	12.092	12.127	VV	639	8080	0.13%	0.037%

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195	12.141	12.127	12.163	VV	472	6818	0.11%	0.031%
196	12.206	12.173	12.228	VV	277	6312	0.10%	0.029%
197	12.267	12.228	12.291	VV	971	21716	0.34%	0.099%
198	12.325	12.291	12.349	VV	3415	45404	0.72%	0.207%
199	12.366	12.349	12.391	VV	831	12473	0.20%	0.057%
200	12.431	12.391	12.461	VV	594	14699	0.23%	0.067%
201	12.516	12.461	12.595	VV	8418	134436	2.12%	0.611%
202	12.602	12.595	12.622	VV	572	6620	0.10%	0.030%
203	12.640	12.622	12.645	VV	467	5529	0.09%	0.025%
204	12.651	12.645	12.667	VV	474	4999	0.08%	0.023%
205	12.685	12.667	12.694	VV	487	6782	0.11%	0.031%
206	12.703	12.694	12.733	VV	494	9200	0.15%	0.042%
207	12.774	12.733	12.804	VV	1988	37971	0.60%	0.173%
208	12.855	12.804	12.878	VV	1432	24309	0.38%	0.111%
209	12.916	12.878	12.941	VV	1563	25776	0.41%	0.117%
210	12.946	12.941	12.950	VV	241	1173	0.02%	0.005%
211	12.978	12.950	13.020	VV	5457	76438	1.21%	0.348%
212	13.034	13.020	13.050	VV	230	2389	0.04%	0.011%
213	13.085	13.050	13.095	VV	87	1333	0.02%	0.006%
214	13.135	13.118	13.157	PV	429	5314	0.08%	0.024%
215	13.162	13.157	13.171	VV	220	1575	0.02%	0.007%
216	13.189	13.171	13.225	VV	509	9932	0.16%	0.045%
217	13.240	13.225	13.252	VV	193	1973	0.03%	0.009%
218	13.271	13.252	13.293	VV	797	10282	0.16%	0.047%
219	13.317	13.293	13.329	VV	660	10143	0.16%	0.046%
220	13.360	13.329	13.396	VV	109084	1314059	20.72%	5.977%
221	13.404	13.396	13.435	VV	482	8488	0.13%	0.039%
222	13.447	13.435	13.456	VV	295	3426	0.05%	0.016%
223	13.462	13.456	13.468	VV	246	1622	0.03%	0.007%
224	13.475	13.468	13.491	VV	301	2747	0.04%	0.012%
225	13.545	13.499	13.557	VV	626	13571	0.21%	0.062%
226	13.581	13.557	13.625	VV	1770	32046	0.51%	0.146%
227	13.666	13.634	13.682	VV	375	8047	0.13%	0.037%
228	13.723	13.682	13.734	VV	554	12790	0.20%	0.058%
229	13.752	13.734	13.801	VV	2282	40136	0.63%	0.183%
230	13.805	13.801	13.834	VV	471	8304	0.13%	0.038%
231	13.860	13.834	13.915	VV	851	19055	0.30%	0.087%
232	13.931	13.915	13.951	VV	542	7787	0.12%	0.035%
233	13.970	13.951	13.998	VV	491	10900	0.17%	0.050%
234	14.003	13.998	14.022	VV	328	4109	0.06%	0.019%
235	14.065	14.022	14.090	VV	2215	33637	0.53%	0.153%
236	14.113	14.090	14.162	VV	1454	27367	0.43%	0.124%
237	14.177	14.162	14.204	VV	373	5472	0.09%	0.025%
238	14.217	14.204	14.254	VV	190	3952	0.06%	0.018%
239	14.257	14.254	14.286	VV	119	1142	0.02%	0.005%
240	14.324	14.293	14.330	PV	199	2222	0.04%	0.010%
241	14.337	14.330	14.350	VV	238	2325	0.04%	0.011%
242	14.355	14.350	14.372	VV	247	2202	0.03%	0.010%
243	14.407	14.398	14.431	VV	137	1090	0.02%	0.005%
244	14.448	14.431	14.460	VV	222	2797	0.04%	0.013%
245	14.506	14.472	14.530	VV	801	14948	0.24%	0.068%
246	14.551	14.530	14.580	VV	1179	23880	0.38%	0.109%

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247	14.595	14.580	14.624	VV	778	12493	0.20%	0.057%
248	14.640	14.624	14.652	VV	251	3263	0.05%	0.015%
249	14.675	14.652	14.712	VV	1255	22745	0.36%	0.103%
250	14.731	14.712	14.751	VV	974	15026	0.24%	0.068%
251	14.777	14.751	14.792	VV	590	10583	0.17%	0.048%
252	14.803	14.792	14.820	VV	449	6134	0.10%	0.028%
253	14.836	14.820	14.860	VV	600	9905	0.16%	0.045%
254	14.907	14.860	14.944	VV	415	14345	0.23%	0.065%
255	14.947	14.944	14.951	VV	286	1133	0.02%	0.005%
256	14.967	14.951	14.978	VV	332	4786	0.08%	0.022%
257	14.993	14.978	15.018	VV	591	10746	0.17%	0.049%
258	15.024	15.018	15.029	VV	478	2787	0.04%	0.013%
259	15.033	15.029	15.045	VV	478	3553	0.06%	0.016%
260	15.053	15.045	15.058	VV	453	3129	0.05%	0.014%
261	15.065	15.058	15.094	VV	526	7047	0.11%	0.032%
262	15.186	15.094	15.200	VV	1801	52037	0.82%	0.237%
263	15.218	15.200	15.242	VV	2253	37962	0.60%	0.173%
264	15.262	15.242	15.296	VV	2204	35363	0.56%	0.161%
265	15.318	15.296	15.325	VV	481	7308	0.12%	0.033%
266	15.330	15.325	15.341	VV	475	3878	0.06%	0.018%
267	15.353	15.341	15.369	VV	488	6918	0.11%	0.031%
268	15.386	15.369	15.430	VV	575	13698	0.22%	0.062%
269	15.450	15.430	15.492	VV	452	11724	0.18%	0.053%
270	15.512	15.492	15.563	VV	591	9907	0.16%	0.045%
271	15.596	15.563	15.685	VV	10789	192710	3.04%	0.876%
272	15.689	15.685	15.709	VV	761	4348	0.07%	0.020%
273	15.737	15.709	15.749	VV	1676	24122	0.38%	0.110%
274	15.751	15.749	15.779	VV	1659	15877	0.25%	0.072%
275	15.790	15.779	15.803	VV	315	3113	0.05%	0.014%
276	15.824	15.803	15.845	VV	832	10691	0.17%	0.049%
277	15.862	15.845	15.894	VV	596	8036	0.13%	0.037%
278	15.995	15.894	16.040	PV	431	19982	0.32%	0.091%
279	16.060	16.040	16.075	VV	282	4558	0.07%	0.021%
280	16.112	16.075	16.142	VV	519	14966	0.24%	0.068%
281	16.147	16.142	16.168	VV	407	4893	0.08%	0.022%
282	16.196	16.168	16.212	VV	648	11101	0.18%	0.050%
283	16.238	16.212	16.276	VV	2229	35056	0.55%	0.159%
284	16.296	16.276	16.325	VV	627	10440	0.16%	0.047%
285	16.332	16.325	16.350	VV	148	1538	0.02%	0.007%
286	16.373	16.364	16.394	VV	155	1402	0.02%	0.006%
287	16.422	16.394	16.444	PV	414	6721	0.11%	0.031%
288	16.462	16.444	16.474	VV	225	2861	0.05%	0.013%
289	16.495	16.487	16.512	VV	139	1463	0.02%	0.007%
290	16.529	16.512	16.555	VV	245	2813	0.04%	0.013%
291	16.614	16.580	16.673	VV	1501	33418	0.53%	0.152%
292	16.721	16.673	16.754	VV	2100	42025	0.66%	0.191%
293	16.803	16.754	16.825	VV	2029	32193	0.51%	0.146%
294	16.852	16.825	16.880	VV	1270	20832	0.33%	0.095%
295	16.883	16.880	16.904	VV	323	3816	0.06%	0.017%
296	16.914	16.904	16.924	VV	295	2704	0.04%	0.012%
297	16.936	16.932	16.974	VV	253	3768	0.06%	0.017%
298	17.025	16.974	17.052	PV	476	11182	0.18%	0.051%
299	17.081	17.052	17.101	VV	740	12554	0.20%	0.057%

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300	17.105	17.101	17.124	VV	388	3630	0.06%	0.017%
301	17.156	17.124	17.167	VV	866	15243	0.24%	0.069%
302	17.188	17.167	17.212	VV	2852	42809	0.68%	0.195%
303	17.238	17.212	17.288	VV	3233	56403	0.89%	0.257%
304	17.327	17.288	17.352	VV	459	13075	0.21%	0.059%
305	17.389	17.352	17.414	VV	230	5864	0.09%	0.027%
306	17.458	17.414	17.467	VV	387	7099	0.11%	0.032%
307	17.475	17.467	17.500	VV	286	4286	0.07%	0.019%
308	17.527	17.500	17.540	VV	618	9402	0.15%	0.043%
309	17.558	17.540	17.602	VV	802	22773	0.36%	0.104%
310	17.638	17.602	17.681	VV	2755	50872	0.80%	0.231%
311	17.728	17.681	17.772	VV	494	17430	0.27%	0.079%
312	17.797	17.772	17.833	VV	338	7913	0.12%	0.036%
313	17.859	17.833	17.895	VV	287	6216	0.10%	0.028%
314	17.930	17.895	17.955	PV	434	7120	0.11%	0.032%
315	17.972	17.955	17.982	VV	109	1637	0.03%	0.007%
316	18.075	17.982	18.105	PV	3855	73920	1.17%	0.336%
317	18.164	18.105	18.205	VV	3210	54477	0.86%	0.248%
318	18.226	18.205	18.237	VV	402	5822	0.09%	0.026%
319	18.256	18.237	18.277	VV	490	8222	0.13%	0.037%
320	18.307	18.277	18.324	VV	488	9862	0.16%	0.045%
321	18.351	18.324	18.375	VV	471	10562	0.17%	0.048%
322	18.399	18.375	18.410	VV	976	12517	0.20%	0.057%
323	18.436	18.410	18.472	VV	4581	97628	1.54%	0.444%
324	18.498	18.472	18.549	VV	6378	101009	1.59%	0.459%
325	18.596	18.549	18.665	PV	905	20483	0.32%	0.093%
326	18.707	18.665	18.717	PV	403	5253	0.08%	0.024%
327	18.764	18.717	18.800	VBA	447	13965	0.22%	0.064%

Sum of corrected areas: 21986927

Aromatic EPH 111524.M Mon Nov 18 01:03:11 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-4			SDG No.:	P4839
Lab Sample ID:	P4839-20			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.9
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 20:50	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.19	mg/kg	FE051274.D
Aliphatic C12-C16	Aliphatic C12-C16	1.12		1	0.28	0.79	mg/kg	FE051274.D
Aliphatic C16-C21	Aliphatic C16-C21	0.86	J	1	0.36	1.19	mg/kg	FE051274.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	1.58	mg/kg	FE051274.D
Aliphatic C28-C40	Aliphatic C28-C40	5.14		1	2.14	2.38	mg/kg	FE051274.D
Aromatic C10-C12	Aromatic C10-C12	0.37	J	1	0.36	0.79	mg/kg	FF015066.D
Aromatic C12-C16	Aromatic C12-C16	0.50	J	1	0.40	1.19	mg/kg	FF015066.D
Aromatic C16-C21	Aromatic C16-C21	2.75		1	1.14	1.98	mg/kg	FF015066.D
Aromatic C21-C36	Aromatic C21-C36	2.38	U	1	2.38	3.17	mg/kg	FF015066.D
Total AliphaticEPH	Total AliphaticEPH	7.12	J		4.18	7.13	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.28	U		4.28	7.13	mg/kg	
Total EPH	Total EPH	10.7	J		8.47	14.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-4			SDG No.:	P4839
Lab Sample ID:	P4839-20			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.9
Sample Wt/Vol:	30.08	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 20:50	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	1	0.45	1.19	mg/kg	FE051274.D
Aliphatic C12-C16	Aliphatic C12-C16	1.12		1	0.28	0.79	mg/kg	FE051274.D
Aliphatic C16-C21	Aliphatic C16-C21	0.86	J	1	0.36	1.19	mg/kg	FE051274.D
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	1	0.95	1.58	mg/kg	FE051274.D
Aliphatic C28-C40	Aliphatic C28-C40	5.14		1	2.14	2.38	mg/kg	FE051274.D
Aromatic C10-C12	Aromatic C10-C12	0.37	J	1	0.36	0.79	mg/kg	FF015066.D
Aromatic C12-C16	Aromatic C12-C16	0.50	J	1	0.40	1.19	mg/kg	FF015066.D
Aromatic C16-C21	Aromatic C16-C21	2.75		1	1.14	1.98	mg/kg	FF015066.D
Aromatic C21-C36	Aromatic C21-C36	2.38	U	1	2.38	3.17	mg/kg	FF015066.D
Total AliphaticEPH	Total AliphaticEPH	7.12	J		4.18	7.13	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.28	U		4.28	7.13	mg/kg	
Total EPH	Total EPH	10.7	J		8.47	14.3	mg/kg	

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

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-4			SDG No.:	P4839
Lab Sample ID:	P4839-20			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	83.9
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
FE051274.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.45	U	0.45	1.19	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	1.12		0.28	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.86	J	0.36	1.19	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.95	U	0.95	1.58	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.14		2.14	2.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	53.9		40 - 140	108%	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:	P4839-20	Acq On:	15 Nov 2024 20:50
Client Sample ID:	EX-4-TPH-4	Operator:	YP\AJ
Data file:	FE051274.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.134	6.753	655916	4.688	300	ug/ml
Aliphatic C12-C16	6.754	10.185	1988284	14.138	200	ug/ml
Aliphatic C16-C21	10.186	13.544	1494914	10.851	300	ug/ml
Aliphatic C21-C28	13.545	17.200	1572990	11.743	400	ug/ml
Aliphatic C28-C40	17.201	22.043	8356255	64.904	600	ug/ml
Aliphatic EPH	3.134	22.043	14068359	106.323		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.281	13.281	6123814	53.94		ug/ml
Aliphatic C9-C28	3.134	17.200	5712104	41.42	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051274.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 20:50
Operator : YP\AJ
Sample : P4839-20
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-4

Integration File: autoint1.e
Quant Time: Nov 16 08:22:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	13.281	6123814	53.940 ug/ml
Spiked Amount 50.000		Recovery = 107.88%	
Target Compounds			

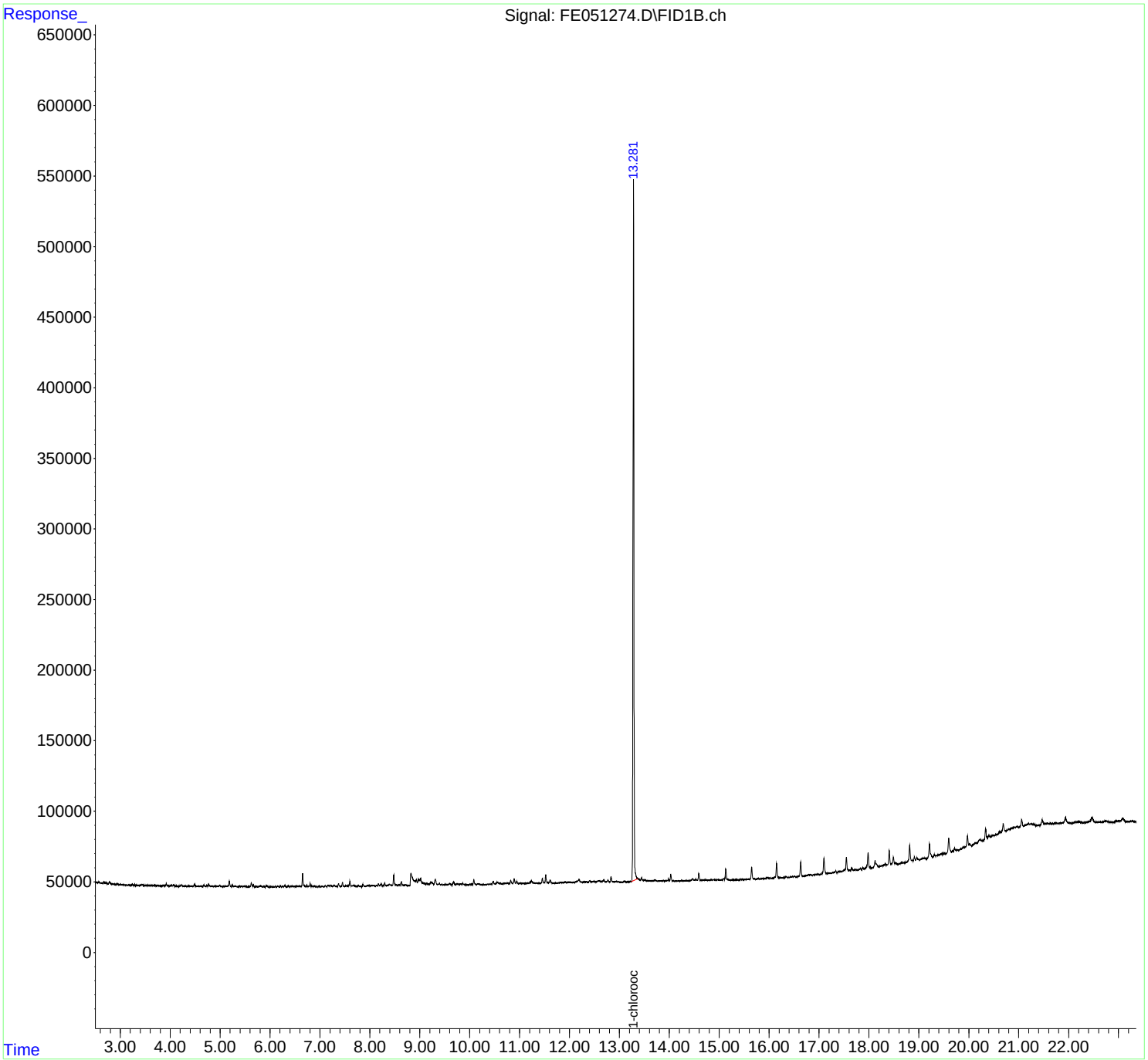
(f)=RT Delta > 1/2 Window (m)=manual int.

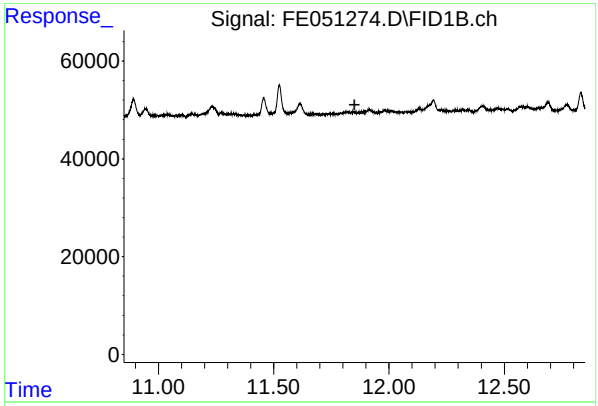
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051274.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 20:50
Operator : YP\AJ
Sample : P4839-20
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-4

Integration File: autoint1.e
Quant Time: Nov 16 08:22:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

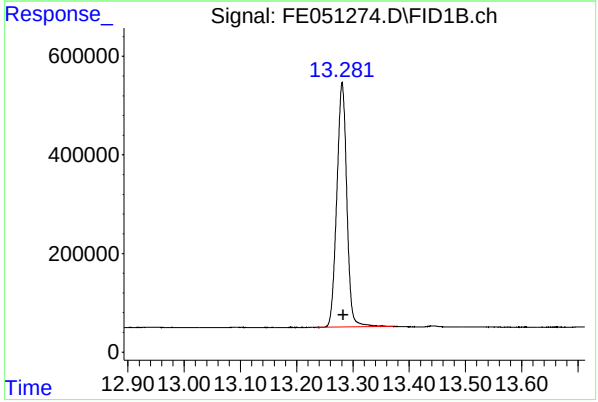




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.850 min
Response: 0
Conc: N.D.

Instrument :
FID_E
ClientSampleId :
EX-4-TPH-4



#12 1-chlorooctadecane (SURR)

R.T.: 13.281 min
Delta R.T.: -0.002 min
Response: 6123814
Conc: 53.94 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051274.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 20:50
Sample : P4839-20
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.242	3.215	3.337	BV	401	5234	0.08%	0.026%
2	3.375	3.337	3.392	PV	171	1886	0.03%	0.009%
3	3.432	3.392	3.468	VV	752	13020	0.21%	0.064%
4	3.475	3.468	3.529	VV	206	3502	0.06%	0.017%
5	3.547	3.529	3.604	VV	234	6436	0.10%	0.031%
6	3.622	3.604	3.665	VV	327	4439	0.07%	0.022%
7	3.680	3.665	3.719	VV	405	5816	0.09%	0.028%
8	3.743	3.719	3.792	VV	193	4903	0.08%	0.024%
9	3.816	3.792	3.839	PV	122	2717	0.04%	0.013%
10	3.864	3.839	3.898	VV	311	5399	0.09%	0.026%
11	3.923	3.898	3.978	VV	1595	22654	0.36%	0.111%
12	4.025	4.001	4.042	BV	374	3178	0.05%	0.016%
13	4.059	4.042	4.110	PV	820	9374	0.15%	0.046%
14	4.130	4.110	4.158	PV	214	2997	0.05%	0.015%
15	4.194	4.158	4.211	PV	252	4051	0.06%	0.020%
16	4.228	4.211	4.278	VV	887	14323	0.23%	0.070%
17	4.284	4.278	4.348	VV	197	3862	0.06%	0.019%
18	4.376	4.348	4.410	VV	281	5498	0.09%	0.027%
19	4.429	4.410	4.445	VV	235	3102	0.05%	0.015%
20	4.488	4.445	4.551	VV	1276	22835	0.36%	0.112%
21	4.556	4.551	4.591	VV	225	2867	0.05%	0.014%
22	4.612	4.591	4.634	PV	412	4256	0.07%	0.021%
23	4.672	4.634	4.718	VV	1131	19000	0.30%	0.093%
24	4.735	4.718	4.751	VV	1073	11613	0.18%	0.057%
25	4.768	4.751	4.814	VV	2091	26895	0.43%	0.132%
26	4.826	4.814	4.862	VV	274	6577	0.10%	0.032%
27	4.901	4.862	4.937	VV	527	13906	0.22%	0.068%
28	4.948	4.937	4.971	VV	315	4782	0.08%	0.023%
29	4.993	4.971	5.033	VV	738	11481	0.18%	0.056%
30	5.047	5.033	5.078	VV	173	2577	0.04%	0.013%
31	5.096	5.078	5.113	VV	365	4543	0.07%	0.022%
32	5.184	5.113	5.221	VV	3920	61819	0.98%	0.302%
33	5.244	5.221	5.271	VV	1186	18517	0.29%	0.091%
34	5.282	5.271	5.291	VV	254	2429	0.04%	0.012%
35	5.303	5.291	5.337	VV	444	6008	0.10%	0.029%
36	5.367	5.337	5.377	PV	223	2915	0.05%	0.014%

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37	5.395	5.377	5.415	VV	409	6164	0.10%	0.030%
38	5.424	5.415	5.434	VV	201	2272	0.04%	0.011%
39	5.437	5.434	5.450	VV	276	1770	0.03%	0.009%
40	5.495	5.450	5.515	VV	353	9833	0.16%	0.048%
41	5.522	5.515	5.551	VV	249	4186	0.07%	0.020%
42	5.559	5.551	5.575	VV	209	2045	0.03%	0.010%
43	5.585	5.575	5.600	VV	288	2705	0.04%	0.013%
44	5.625	5.600	5.648	VV	2923	37590	0.60%	0.184%
45	5.664	5.648	5.711	VV	1702	22483	0.36%	0.110%
46	5.725	5.711	5.762	VV	456	7329	0.12%	0.036%
47	5.770	5.762	5.778	VV	181	1397	0.02%	0.007%
48	5.800	5.778	5.843	VV	679	14377	0.23%	0.070%
49	5.852	5.843	5.865	VV	162	1813	0.03%	0.009%
50	5.883	5.865	5.901	VV	219	2711	0.04%	0.013%
51	5.926	5.901	5.974	VV	670	11770	0.19%	0.058%
52	5.986	5.974	6.002	VV	212	2715	0.04%	0.013%
53	6.028	6.002	6.080	VV	229	4694	0.07%	0.023%
54	6.100	6.080	6.118	PV	264	2359	0.04%	0.012%
55	6.149	6.118	6.166	PV	338	4192	0.07%	0.021%
56	6.206	6.166	6.235	VV	339	6691	0.11%	0.033%
57	6.252	6.235	6.273	VV	350	5037	0.08%	0.025%
58	6.297	6.273	6.321	VV	1008	12296	0.20%	0.060%
59	6.333	6.321	6.347	VV	209	1924	0.03%	0.009%
60	6.363	6.347	6.390	VV	423	5474	0.09%	0.027%
61	6.438	6.390	6.463	VV	494	9396	0.15%	0.046%
62	6.488	6.463	6.503	VV	168	2215	0.04%	0.011%
63	6.552	6.503	6.583	VV	259	7619	0.12%	0.037%
64	6.594	6.583	6.624	VV	184	2428	0.04%	0.012%
65	6.653	6.624	6.701	PBA	9242	107989	1.72%	0.528%
66	6.736	6.701	6.760	BV	592	7031	0.11%	0.034%
67	6.774	6.760	6.788	PV	370	3545	0.06%	0.017%
68	6.804	6.788	6.825	VV	2263	24110	0.38%	0.118%
69	6.837	6.825	6.860	VV	683	7659	0.12%	0.037%
70	6.878	6.860	6.920	VV	658	8607	0.14%	0.042%
71	6.978	6.920	7.001	PV	339	7258	0.12%	0.036%
72	7.015	7.001	7.027	VV	215	2418	0.04%	0.012%
73	7.040	7.027	7.073	VV	242	3821	0.06%	0.019%
74	7.106	7.073	7.132	PV	781	9518	0.15%	0.047%
75	7.159	7.132	7.195	VV	978	21398	0.34%	0.105%
76	7.223	7.195	7.253	VV	934	19965	0.32%	0.098%
77	7.287	7.253	7.312	VV	1223	23148	0.37%	0.113%
78	7.329	7.312	7.347	VV	365	5068	0.08%	0.025%
79	7.372	7.347	7.412	VV	2126	31427	0.50%	0.154%
80	7.452	7.412	7.486	VV	3054	39335	0.63%	0.192%
81	7.516	7.486	7.524	VV	505	8074	0.13%	0.040%
82	7.535	7.524	7.545	VV	526	5847	0.09%	0.029%
83	7.562	7.545	7.573	VV	717	9496	0.15%	0.046%
84	7.600	7.573	7.641	VV	3707	56103	0.89%	0.275%
85	7.658	7.641	7.675	VV	731	11674	0.19%	0.057%
86	7.688	7.675	7.708	VV	799	11051	0.18%	0.054%
87	7.725	7.708	7.751	VV	408	7715	0.12%	0.038%
88	7.772	7.751	7.796	VV	640	10459	0.17%	0.051%
89	7.812	7.796	7.838	VV	207	2626	0.04%	0.013%

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90	7.861	7.838	7.900	PV	1369	19352	0.31%	0.095%
91	7.943	7.900	7.953	VV	567	10374	0.16%	0.051%
92	7.968	7.953	7.994	VV	598	10580	0.17%	0.052%
93	8.027	7.994	8.045	VV	773	14854	0.24%	0.073%
94	8.060	8.045	8.106	VV	649	15985	0.25%	0.078%
95	8.127	8.106	8.147	VV	569	8774	0.14%	0.043%
96	8.171	8.147	8.191	VV	1923	24534	0.39%	0.120%
97	8.228	8.191	8.251	VV	2167	35366	0.56%	0.173%
98	8.267	8.251	8.277	VV	379	4904	0.08%	0.024%
99	8.297	8.277	8.321	VV	2213	26359	0.42%	0.129%
100	8.348	8.321	8.364	VV	715	13190	0.21%	0.065%
101	8.388	8.364	8.451	VV	1267	37001	0.59%	0.181%
102	8.479	8.451	8.553	VV	7899	122038	1.94%	0.597%
103	8.590	8.553	8.608	VV	943	22805	0.36%	0.112%
104	8.631	8.608	8.659	VV	2928	41879	0.67%	0.205%
105	8.669	8.659	8.698	VV	669	9829	0.16%	0.048%
106	8.712	8.698	8.750	VV	781	14357	0.23%	0.070%
107	8.761	8.750	8.791	VV	206	2976	0.05%	0.015%
108	8.825	8.791	8.913	PV	8799	321487	5.11%	1.573%
109	8.929	8.913	8.950	VV	3869	69643	1.11%	0.341%
110	8.972	8.950	9.002	VV	4539	118806	1.89%	0.581%
111	9.017	9.002	9.065	VV	5366	115641	1.84%	0.566%
112	9.082	9.065	9.114	VV	1732	43274	0.69%	0.212%
113	9.135	9.114	9.181	VV	1287	45016	0.72%	0.220%
114	9.221	9.181	9.280	VV	2477	97286	1.55%	0.476%
115	9.311	9.280	9.367	VV	4372	102264	1.63%	0.500%
116	9.389	9.367	9.414	VV	1460	23927	0.38%	0.117%
117	9.437	9.414	9.470	VV	887	16902	0.27%	0.083%
118	9.516	9.470	9.555	VV	668	24798	0.39%	0.121%
119	9.564	9.555	9.571	VV	393	3603	0.06%	0.018%
120	9.604	9.571	9.641	VV	1334	30356	0.48%	0.149%
121	9.671	9.641	9.715	VV	1950	46562	0.74%	0.228%
122	9.766	9.715	9.789	VV	1040	28295	0.45%	0.138%
123	9.810	9.789	9.848	VV	919	20038	0.32%	0.098%
124	9.863	9.848	9.936	VV	1296	22360	0.36%	0.109%
125	9.954	9.936	9.976	VV	153	2094	0.03%	0.010%
126	10.007	9.976	10.027	VV	698	10617	0.17%	0.052%
127	10.038	10.027	10.061	VV	442	7648	0.12%	0.037%
128	10.085	10.061	10.132	VV	3692	52118	0.83%	0.255%
129	10.160	10.132	10.221	VV	591	20070	0.32%	0.098%
130	10.228	10.221	10.244	VV	213	1982	0.03%	0.010%
131	10.257	10.244	10.290	VV	254	2665	0.04%	0.013%
132	10.358	10.290	10.375	PV	309	7652	0.12%	0.037%
133	10.402	10.375	10.417	VV	433	7372	0.12%	0.036%
134	10.472	10.417	10.496	VV	2341	44423	0.71%	0.217%
135	10.515	10.496	10.525	VV	790	11681	0.19%	0.057%
136	10.552	10.525	10.598	VV	1573	47054	0.75%	0.230%
137	10.615	10.598	10.645	VV	806	16325	0.26%	0.080%
138	10.684	10.645	10.694	VV	733	14673	0.23%	0.072%
139	10.710	10.694	10.731	VV	764	14404	0.23%	0.070%
140	10.756	10.731	10.781	VV	1155	23938	0.38%	0.117%
141	10.823	10.781	10.857	VV	2858	54920	0.87%	0.269%

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142	10.892	10.857	10.919	VV	3777	66590	1.06%	0.326%
143	10.945	10.919	11.001	VV	1859	42566	0.68%	0.208%
144	11.038	11.001	11.072	VV	691	20277	0.32%	0.099%
145	11.101	11.072	11.121	VV	485	10463	0.17%	0.051%
146	11.144	11.121	11.173	VV	718	15432	0.25%	0.076%
147	11.233	11.173	11.264	VV	2143	62629	1.00%	0.306%
148	11.274	11.264	11.292	VV	842	11352	0.18%	0.056%
149	11.304	11.292	11.378	VV	608	22131	0.35%	0.108%
150	11.457	11.378	11.488	VV	3734	65113	1.04%	0.319%
151	11.525	11.488	11.560	VV	6417	96886	1.54%	0.474%
152	11.614	11.560	11.653	VV	2512	59052	0.94%	0.289%
153	11.669	11.653	11.707	VV	362	9399	0.15%	0.046%
154	11.718	11.707	11.725	VV	311	2606	0.04%	0.013%
155	11.754	11.725	11.765	VV	346	7070	0.11%	0.035%
156	11.818	11.765	11.838	VV	703	20427	0.32%	0.100%
157	11.846	11.838	11.863	VV	637	8292	0.13%	0.041%
158	11.914	11.863	11.947	VV	1073	33616	0.53%	0.164%
159	11.984	11.947	12.005	VV	926	23024	0.37%	0.113%
160	12.012	12.005	12.061	VV	687	17719	0.28%	0.087%
161	12.083	12.061	12.098	VV	573	11328	0.18%	0.055%
162	12.132	12.098	12.145	VV	1169	23136	0.37%	0.113%
163	12.193	12.145	12.271	VV	2842	92183	1.47%	0.451%
164	12.297	12.271	12.307	VV	749	13898	0.22%	0.068%
165	12.322	12.307	12.368	VV	818	22934	0.36%	0.112%
166	12.406	12.368	12.446	VV	1513	43132	0.69%	0.211%
167	12.471	12.446	12.508	VV	1012	29648	0.47%	0.145%
168	12.515	12.508	12.535	VV	867	11201	0.18%	0.055%
169	12.571	12.535	12.590	VV	1294	31127	0.50%	0.152%
170	12.601	12.590	12.631	VV	1202	24217	0.39%	0.118%
171	12.690	12.631	12.731	VV	2121	61356	0.98%	0.300%
172	12.771	12.731	12.805	VV	1628	37575	0.60%	0.184%
173	12.832	12.805	12.891	VV	4041	67280	1.07%	0.329%
174	12.901	12.891	12.910	VV	469	4584	0.07%	0.022%
175	12.950	12.910	13.018	VV	725	26497	0.42%	0.130%
176	13.093	13.018	13.137	VV	570	15676	0.25%	0.077%
177	13.157	13.137	13.175	VV	395	5546	0.09%	0.027%
178	13.191	13.175	13.208	VV	314	4872	0.08%	0.024%
179	13.281	13.208	13.420	VV	496524	6288181	100.00%	30.769%
180	13.442	13.420	13.496	VV	3167	78369	1.25%	0.383%
181	13.513	13.496	13.585	VV	1202	48622	0.77%	0.238%
182	13.602	13.585	13.621	VV	761	13762	0.22%	0.067%
183	13.665	13.621	13.684	VV	741	23544	0.37%	0.115%
184	13.714	13.684	13.774	VV	1211	38612	0.61%	0.189%
185	13.786	13.774	13.798	VV	432	5773	0.09%	0.028%
186	13.826	13.798	13.841	VV	493	11375	0.18%	0.056%
187	13.872	13.841	13.908	VV	671	20637	0.33%	0.101%
188	13.976	13.908	14.000	VV	1545	36688	0.58%	0.180%
189	14.027	14.000	14.068	VV	5021	74397	1.18%	0.364%
190	14.073	14.068	14.101	VV	469	7322	0.12%	0.036%
191	14.110	14.101	14.136	VV	276	4278	0.07%	0.021%
192	14.181	14.136	14.220	VV	347	10029	0.16%	0.049%
193	14.249	14.220	14.291	PV	531	14830	0.24%	0.073%
194	14.298	14.291	14.309	VV	318	3039	0.05%	0.015%

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195	14.339	14.309	14.381	VV	348	11108	0.18%	0.054%
196	14.407	14.381	14.420	VV	389	7695	0.12%	0.038%
197	14.439	14.420	14.447	VV	623	7944	0.13%	0.039%
198	14.469	14.447	14.501	VV	1679	29545	0.47%	0.145%
199	14.533	14.501	14.563	VV	1014	23884	0.38%	0.117%
200	14.590	14.563	14.628	VV	5175	73274	1.17%	0.359%
201	14.649	14.628	14.667	VV	531	10604	0.17%	0.052%
202	14.705	14.667	14.767	VV	583	25932	0.41%	0.127%
203	14.794	14.767	14.805	VV	333	5739	0.09%	0.028%
204	14.836	14.805	14.860	VV	757	15791	0.25%	0.077%
205	14.891	14.860	14.920	VV	526	16093	0.26%	0.079%
206	14.937	14.920	14.958	VV	575	9103	0.14%	0.045%
207	14.991	14.958	15.011	VV	547	12399	0.20%	0.061%
208	15.048	15.011	15.065	VV	366	9153	0.15%	0.045%
209	15.085	15.065	15.101	VV	1269	17683	0.28%	0.087%
210	15.129	15.101	15.235	VV	8045	133557	2.12%	0.654%
211	15.246	15.235	15.275	VV	186	3347	0.05%	0.016%
212	15.294	15.275	15.306	VV	299	4053	0.06%	0.020%
213	15.322	15.306	15.351	VV	322	5300	0.08%	0.026%
214	15.378	15.351	15.391	VV	253	3688	0.06%	0.018%
215	15.401	15.391	15.409	VV	112	709	0.01%	0.003%
216	15.441	15.409	15.490	PV	364	9451	0.15%	0.046%
217	15.507	15.490	15.528	PV	173	2022	0.03%	0.010%
218	15.557	15.528	15.591	VV	302	6589	0.10%	0.032%
219	15.648	15.591	15.722	VV	8901	132150	2.10%	0.647%
220	15.731	15.722	15.748	VV	159	1304	0.02%	0.006%
221	15.779	15.748	15.805	PV	513	6783	0.11%	0.033%
222	15.870	15.805	15.898	VV	372	9167	0.15%	0.045%
223	15.910	15.898	15.924	VV	196	2119	0.03%	0.010%
224	15.968	15.924	15.994	VV	825	17197	0.27%	0.084%
225	16.012	15.994	16.025	VV	376	5915	0.09%	0.029%
226	16.031	16.025	16.065	VV	352	3695	0.06%	0.018%
227	16.112	16.065	16.121	VV	944	14004	0.22%	0.069%
228	16.148	16.121	16.228	VV	10691	162738	2.59%	0.796%
229	16.236	16.228	16.257	VV	208	2724	0.04%	0.013%
230	16.280	16.257	16.300	VV	309	4534	0.07%	0.022%
231	16.348	16.300	16.395	PV	867	19351	0.31%	0.095%
232	16.434	16.395	16.444	VV	500	8144	0.13%	0.040%
233	16.455	16.444	16.488	VV	569	11797	0.19%	0.058%
234	16.506	16.488	16.552	VV	603	12227	0.19%	0.060%
235	16.631	16.552	16.693	PV	10462	161298	2.57%	0.789%
236	16.792	16.693	16.805	VV	626	23971	0.38%	0.117%
237	16.836	16.805	16.858	VV	526	12996	0.21%	0.064%
238	16.900	16.858	16.912	VV	411	8425	0.13%	0.041%
239	16.930	16.912	16.949	VV	714	9453	0.15%	0.046%
240	16.973	16.949	16.999	VV	469	10062	0.16%	0.049%
241	17.096	16.999	17.171	VV	11259	209820	3.34%	1.027%
242	17.189	17.171	17.241	VV	549	14167	0.23%	0.069%
243	17.334	17.241	17.363	PV	1629	41645	0.66%	0.204%
244	17.433	17.363	17.454	VV	539	19085	0.30%	0.093%
245	17.505	17.454	17.520	VV	1733	39309	0.63%	0.192%
246	17.546	17.520	17.595	VV	10134	165007	2.62%	0.807%

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247	17.612	17.595	17.626	VV	955	14275	0.23%	0.070%
248	17.654	17.626	17.693	VV	1879	42149	0.67%	0.206%
249	17.714	17.693	17.723	VV	571	7597	0.12%	0.037%
250	17.741	17.723	17.763	VV	710	10876	0.17%	0.053%
251	17.778	17.763	17.791	VV	239	2508	0.04%	0.012%
252	17.826	17.791	17.855	VV	933	17606	0.28%	0.086%
253	17.877	17.855	17.904	PV	1354	21434	0.34%	0.105%
254	17.981	17.904	18.011	VV	11367	199247	3.17%	0.975%
255	18.023	18.011	18.063	VV	1013	15674	0.25%	0.077%
256	18.121	18.063	18.201	VV	5042	136243	2.17%	0.667%
257	18.219	18.201	18.234	VV	696	10011	0.16%	0.049%
258	18.264	18.234	18.280	VV	1114	20886	0.33%	0.102%
259	18.323	18.280	18.340	VV	1645	38279	0.61%	0.187%
260	18.351	18.340	18.365	VV	988	13654	0.22%	0.067%
261	18.405	18.365	18.436	VV	10814	169207	2.69%	0.828%
262	18.489	18.436	18.582	VV	5681	141681	2.25%	0.693%
263	18.667	18.582	18.687	PV	932	24185	0.38%	0.118%
264	18.718	18.687	18.730	VV	440	8556	0.14%	0.042%
265	18.814	18.730	18.855	VV	11949	212504	3.38%	1.040%
266	18.864	18.855	18.882	VV	948	12522	0.20%	0.061%
267	18.909	18.882	18.938	VV	2957	48412	0.77%	0.237%
268	18.958	18.938	19.028	VV	2136	47289	0.75%	0.231%
269	19.076	19.028	19.096	PV	962	23554	0.37%	0.115%
270	19.118	19.096	19.136	VV	664	11244	0.18%	0.055%
271	19.212	19.136	19.273	PV	9962	185090	2.94%	0.906%
272	19.311	19.273	19.338	VV	1390	26758	0.43%	0.131%
273	19.346	19.338	19.361	VV	499	5829	0.09%	0.029%
274	19.462	19.361	19.478	VV	970	40691	0.65%	0.199%
275	19.514	19.478	19.547	VV	547	15903	0.25%	0.078%
276	19.597	19.547	19.661	VV	10728	213915	3.40%	1.047%
277	19.716	19.661	19.745	VV	2087	59604	0.95%	0.292%
278	19.754	19.745	19.772	VV	936	12767	0.20%	0.062%
279	19.840	19.772	19.857	VV	934	37252	0.59%	0.182%
280	19.973	19.857	19.999	VV	9135	241713	3.84%	1.183%
281	20.012	19.999	20.055	VV	2911	77319	1.23%	0.378%
282	20.210	20.055	20.223	VV	4168	256011	4.07%	1.253%
283	20.242	20.223	20.271	VV	4114	104001	1.65%	0.509%
284	20.336	20.271	20.368	VV	11405	313164	4.98%	1.532%
285	20.401	20.368	20.438	VV	5821	212535	3.38%	1.040%
286	20.472	20.438	20.497	VV	5201	176478	2.81%	0.864%
287	20.509	20.497	20.515	VV	4899	51178	0.81%	0.250%
288	20.631	20.515	20.641	VV	6473	419995	6.68%	2.055%
289	20.690	20.641	20.725	VV	11660	402015	6.39%	1.967%
290	20.811	20.725	20.827	VV	6755	390553	6.21%	1.911%
291	20.920	20.827	20.931	VV	7328	437794	6.96%	2.142%
292	20.967	20.931	20.988	VV	7093	235115	3.74%	1.150%
293	21.060	20.988	21.105	VV	11455	536400	8.53%	2.625%
294	21.195	21.105	21.218	VV	7271	465626	7.40%	2.278%
295	21.250	21.218	21.268	VV	6715	202631	3.22%	0.992%
296	21.282	21.268	21.348	VV	6247	271109	4.31%	1.327%
297	21.393	21.348	21.414	VV	4448	177217	2.82%	0.867%
298	21.470	21.414	21.537	VV	7403	392198	6.24%	1.919%
299	21.572	21.537	21.602	VV	4430	168822	2.68%	0.826%

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300	21.637	21.602	21.701	VV	3828	210662	3.35%	1.031%
301	21.755	21.701	21.807	VV	2987	179649	2.86%	0.879%
302	21.822	21.807	21.847	VV	2641	57691	0.92%	0.282%
303	21.937	21.847	22.041	VV	5075	263931	4.20%	1.291%
304	22.190	22.041	22.201	VBA	424	80215	1.28%	0.393%

Sum of corrected areas: 20436761

Aliphatic EPH 110724.M Sat Nov 16 11:28:07 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-4		SDG No.:	P4839	
Lab Sample ID:	P4839-20		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	83.9	
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
FF015066.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.37	J	0.36	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.50	J	0.40	1.19	mg/kg
Aromatic C16-C21	Aromatic C16-C21	2.75		1.14	1.98	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.38	U	2.38	3.17	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	50.4		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	45.6		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	52.3		40 - 140	105%	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:	P4839-20	Acq On:	15 Nov 2024 17:33
Client Sample ID:	EX-4-TPH-4	Operator:	YP\AJ
Data file:	FF015066.D	Misc:	
Instrument:	FID_F	ALS Vial:	73
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.507	6.371	632854	4.627	200	ug/ml
Aromatic C12-C16	6.372	9.062	849786	6.294	300	ug/ml
Aromatic C16-C21	9.063	13.374	4435771	34.683	500	ug/ml
Aromatic C21-C36	13.375	18.817	2403880	19.725	800	ug/ml
Aromatic EPH	4.507	18.817	8322291	65.328		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	7011503	52.27		ug/ml
2-Bromonaphthalene (SURR)	7.991	7.991	6156713	50.42		ug/ml
2-Flurobiphenyl (SURR)	8.865	8.865	3726774	45.65		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015066.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:33
Operator : YP\AJ
Sample : P4839-20
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-4

Integration File: autoint1.e
Quant Time: Nov 18 00:26:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.991	6156713	50.417 ug/ml
Spiked Amount 50.000		Recovery = 100.83%	
6) S 2-Flurobiphenyl (SURR)	8.865	3726774	45.648 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 91.30%	
11) S ortho-Terphenyl (SURR)	11.929	7011503	52.268 ug/ml
Spiked Amount 50.000		Recovery = 104.54%	
Target Compounds			

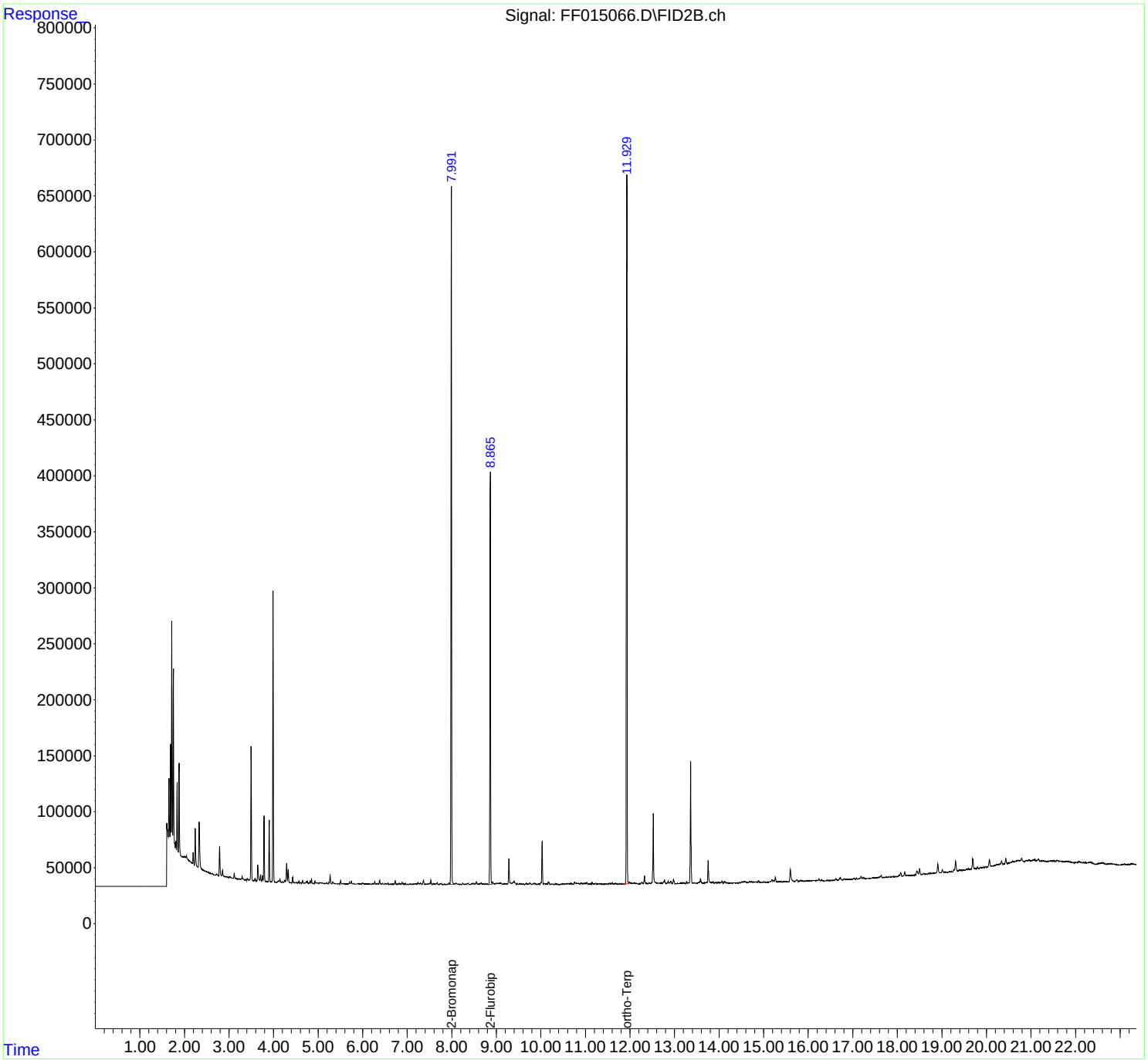
(f)=RT Delta > 1/2 Window (m)=manual int.

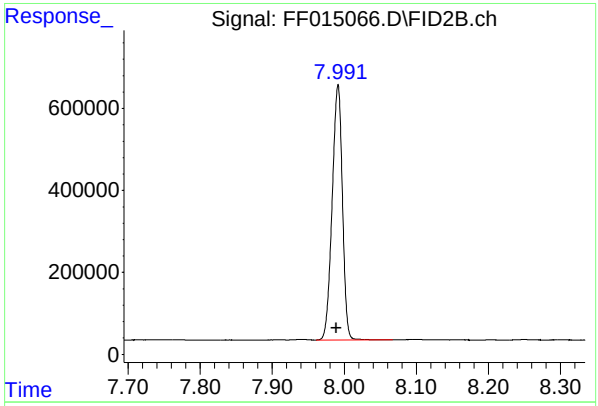
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015066.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:33
Operator : YP\AJ
Sample : P4839-20
Misc :
ALS Vial : 73 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-4

Integration File: autoint1.e
Quant Time: Nov 18 00:26:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

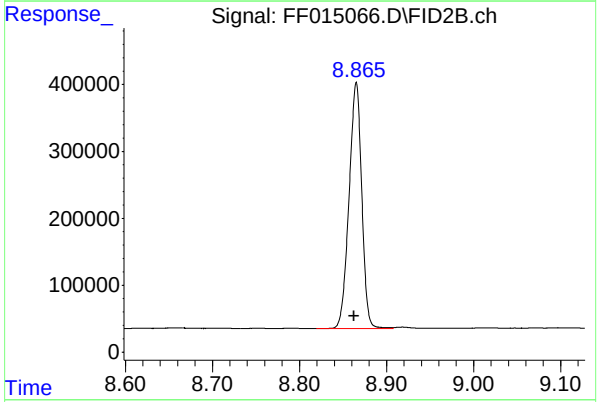




#4 2-Bromonaphthalene (SURR)

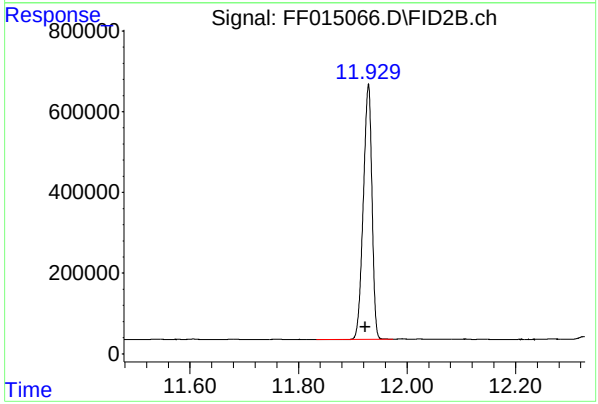
R.T.: 7.991 min
Delta R.T.: 0.002 min
Response: 6156713
Conc: 50.42 ug/ml

Instrument :
FID_F
ClientSampleId :
EX-4-TPH-4



#6 2-Flurobiphenyl (SURR)

R.T.: 8.865 min
Delta R.T.: 0.003 min
Response: 3726774
Conc: 45.65 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.929 min
Delta R.T.: 0.006 min
Response: 7011503
Conc: 52.27 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015066.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 17:33
Sample : P4839-20
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.429	4.401	4.446	BV	5170	44095	0.63%	0.174%
2	4.455	4.446	4.471	VV	530	4340	0.06%	0.017%
3	4.484	4.471	4.500	VV	322	3567	0.05%	0.014%
4	4.512	4.500	4.531	VV	494	4620	0.07%	0.018%
5	4.569	4.531	4.592	PV	2241	24805	0.35%	0.098%
6	4.606	4.592	4.618	VV	541	5400	0.08%	0.021%
7	4.651	4.618	4.677	VV	2600	32457	0.46%	0.128%
8	4.695	4.677	4.711	VV	483	5553	0.08%	0.022%
9	4.733	4.711	4.744	PV	1503	15760	0.22%	0.062%
10	4.758	4.744	4.780	VV	2169	24111	0.34%	0.095%
11	4.791	4.780	4.802	VV	255	2498	0.04%	0.010%
12	4.820	4.802	4.835	VV	2197	22134	0.31%	0.087%
13	4.853	4.835	4.873	VV	3698	38677	0.55%	0.153%
14	4.885	4.873	4.893	VV	188	1526	0.02%	0.006%
15	4.929	4.902	4.949	VV	1988	23220	0.33%	0.092%
16	4.954	4.949	4.959	VV	521	2926	0.04%	0.012%
17	4.982	4.959	5.005	VV	847	12820	0.18%	0.051%
18	5.038	5.005	5.051	VV	1089	16019	0.23%	0.063%
19	5.062	5.051	5.087	VV	855	13319	0.19%	0.053%
20	5.098	5.087	5.134	VV	621	9344	0.13%	0.037%
21	5.147	5.134	5.161	VV	290	2601	0.04%	0.010%
22	5.188	5.161	5.222	VV	792	14100	0.20%	0.056%
23	5.244	5.222	5.252	VV	1553	15260	0.22%	0.060%
24	5.270	5.252	5.304	VV	7339	90129	1.28%	0.356%
25	5.330	5.304	5.346	PV	1665	21844	0.31%	0.086%
26	5.351	5.346	5.368	VV	701	5372	0.08%	0.021%
27	5.384	5.368	5.422	VV	394	5164	0.07%	0.020%
28	5.442	5.422	5.460	PV	230	3348	0.05%	0.013%
29	5.477	5.460	5.488	VV	412	4964	0.07%	0.020%
30	5.507	5.488	5.538	VV	3208	33666	0.48%	0.133%
31	5.555	5.538	5.570	VV	360	4284	0.06%	0.017%
32	5.575	5.570	5.598	VV	233	2615	0.04%	0.010%
33	5.648	5.627	5.656	VV	154	1531	0.02%	0.006%
34	5.669	5.656	5.682	VV	240	2325	0.03%	0.009%
35	5.703	5.682	5.723	VV	1686	18980	0.27%	0.075%
36	5.747	5.723	5.790	VV	2711	36111	0.51%	0.143%

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37	5.807	5.790	5.832	VV	688	7889	0.11%	0.031%
38	5.875	5.862	5.878	VV	264	1803	0.03%	0.007%
39	5.893	5.878	5.921	VV	545	7922	0.11%	0.031%
40	5.929	5.921	5.940	VV	227	1849	0.03%	0.007%
41	5.961	5.940	5.977	VV	332	4399	0.06%	0.017%
42	5.993	5.977	6.008	PV	1139	12045	0.17%	0.048%
43	6.013	6.008	6.039	VV	565	6869	0.10%	0.027%
44	6.051	6.039	6.068	VV	357	4181	0.06%	0.017%
45	6.088	6.068	6.102	VV	474	5586	0.08%	0.022%
46	6.114	6.102	6.127	VV	398	3744	0.05%	0.015%
47	6.139	6.127	6.156	VV	319	3951	0.06%	0.016%
48	6.179	6.156	6.201	VV	391	5644	0.08%	0.022%
49	6.232	6.201	6.251	VV	494	9161	0.13%	0.036%
50	6.272	6.251	6.301	VV	2467	29532	0.42%	0.117%
51	6.309	6.301	6.317	VV	394	3041	0.04%	0.012%
52	6.334	6.317	6.353	VV	576	7755	0.11%	0.031%
53	6.382	6.353	6.414	VV	3641	43224	0.61%	0.171%
54	6.445	6.414	6.484	VV	890	16168	0.23%	0.064%
55	6.515	6.484	6.546	VV	618	14419	0.20%	0.057%
56	6.570	6.546	6.601	VV	816	10079	0.14%	0.040%
57	6.618	6.601	6.642	PV	140	2017	0.03%	0.008%
58	6.649	6.642	6.673	VV	193	2180	0.03%	0.009%
59	6.684	6.673	6.700	VV	121	1294	0.02%	0.005%
60	6.731	6.700	6.784	VV	3319	38784	0.55%	0.153%
61	6.818	6.784	6.836	VV	994	14151	0.20%	0.056%
62	6.852	6.836	6.866	VV	640	7250	0.10%	0.029%
63	6.885	6.866	6.904	VV	1926	21297	0.30%	0.084%
64	6.919	6.904	6.942	VV	662	7119	0.10%	0.028%
65	6.959	6.942	6.980	VV	1047	10347	0.15%	0.041%
66	7.013	6.980	7.034	PV	274	4109	0.06%	0.016%
67	7.065	7.034	7.098	VV	667	11453	0.16%	0.045%
68	7.114	7.098	7.129	VV	496	5899	0.08%	0.023%
69	7.136	7.129	7.147	VV	322	2019	0.03%	0.008%
70	7.153	7.147	7.166	VV	185	1275	0.02%	0.005%
71	7.185	7.166	7.204	VV	1009	10998	0.16%	0.043%
72	7.211	7.204	7.216	VV	260	1641	0.02%	0.006%
73	7.238	7.216	7.255	VV	1561	20411	0.29%	0.081%
74	7.265	7.255	7.277	VV	813	9939	0.14%	0.039%
75	7.289	7.277	7.294	VV	1113	9318	0.13%	0.037%
76	7.303	7.294	7.333	VV	1214	15868	0.23%	0.063%
77	7.365	7.333	7.391	VV	3842	51615	0.73%	0.204%
78	7.397	7.391	7.417	VV	350	4417	0.06%	0.017%
79	7.421	7.417	7.435	VV	269	2381	0.03%	0.009%
80	7.453	7.435	7.467	VV	681	8457	0.12%	0.033%
81	7.475	7.467	7.487	VV	516	5100	0.07%	0.020%
82	7.501	7.487	7.514	VV	1166	12214	0.17%	0.048%
83	7.533	7.514	7.560	VV	3792	44491	0.63%	0.176%
84	7.592	7.560	7.604	VV	667	10586	0.15%	0.042%
85	7.614	7.604	7.626	VV	502	5149	0.07%	0.020%
86	7.641	7.626	7.656	VV	835	9674	0.14%	0.038%
87	7.674	7.656	7.696	VV	1542	19471	0.28%	0.077%
88	7.714	7.696	7.723	VV	331	3713	0.05%	0.015%
89	7.742	7.723	7.754	VV	712	9481	0.13%	0.037%

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90	7.769	7.754	7.796	VV	939	11384	0.16%	0.045%
91	7.809	7.796	7.821	VV	148	1525	0.02%	0.006%
92	7.836	7.830	7.874	VV	255	4059	0.06%	0.016%
93	7.908	7.874	7.922	PV	378	6746	0.10%	0.027%
94	7.941	7.922	7.961	VV	1544	17726	0.25%	0.070%
95	7.991	7.961	8.068	VV	621311	6173992	87.73%	24.380%
96	8.101	8.068	8.129	VV	1294	29472	0.42%	0.116%
97	8.136	8.129	8.146	VV	386	3702	0.05%	0.015%
98	8.163	8.146	8.187	VV	413	6395	0.09%	0.025%
99	8.202	8.187	8.226	VV	367	4810	0.07%	0.019%
100	8.249	8.226	8.279	VV	1160	17304	0.25%	0.068%
101	8.304	8.279	8.320	VV	436	7187	0.10%	0.028%
102	8.357	8.320	8.363	VV	900	11554	0.16%	0.046%
103	8.373	8.363	8.412	VV	934	12779	0.18%	0.050%
104	8.449	8.412	8.461	VV	725	12137	0.17%	0.048%
105	8.478	8.461	8.493	VV	1286	16166	0.23%	0.064%
106	8.506	8.493	8.520	VV	935	10526	0.15%	0.042%
107	8.555	8.520	8.581	VV	2616	39288	0.56%	0.155%
108	8.586	8.581	8.601	VV	413	4432	0.06%	0.018%
109	8.615	8.601	8.632	VV	820	10371	0.15%	0.041%
110	8.656	8.632	8.691	VV	1071	27714	0.39%	0.109%
111	8.714	8.691	8.734	VV	825	13875	0.20%	0.055%
112	8.752	8.734	8.771	VV	723	9379	0.13%	0.037%
113	8.790	8.771	8.819	VV	792	10577	0.15%	0.042%
114	8.865	8.819	8.907	VV	369070	3738749	53.13%	14.764%
115	8.919	8.907	8.947	VV	2394	34070	0.48%	0.135%
116	8.963	8.947	8.969	VV	728	9042	0.13%	0.036%
117	8.971	8.969	8.977	VV	748	3568	0.05%	0.014%
118	8.987	8.977	8.991	VV	814	6204	0.09%	0.024%
119	9.017	8.991	9.034	VV	1320	26774	0.38%	0.106%
120	9.048	9.034	9.054	VV	972	10444	0.15%	0.041%
121	9.056	9.054	9.059	VV	913	2568	0.04%	0.010%
122	9.071	9.059	9.082	VV	1107	13510	0.19%	0.053%
123	9.097	9.082	9.142	VV	1406	33370	0.47%	0.132%
124	9.160	9.142	9.191	VV	762	13845	0.20%	0.055%
125	9.209	9.191	9.224	VV	867	12354	0.18%	0.049%
126	9.238	9.224	9.252	VV	549	7668	0.11%	0.030%
127	9.284	9.252	9.311	VV	23309	263910	3.75%	1.042%
128	9.317	9.311	9.348	VV	1650	28437	0.40%	0.112%
129	9.378	9.348	9.385	VV	1926	34177	0.49%	0.135%
130	9.399	9.385	9.425	VV	3008	51066	0.73%	0.202%
131	9.430	9.425	9.452	VV	1272	13827	0.20%	0.055%
132	9.472	9.452	9.496	VV	1288	16265	0.23%	0.064%
133	9.529	9.496	9.547	VV	935	15896	0.23%	0.063%
134	9.564	9.547	9.587	VV	781	10652	0.15%	0.042%
135	9.605	9.587	9.635	VV	605	8592	0.12%	0.034%
136	9.667	9.635	9.701	VV	1089	20246	0.29%	0.080%
137	9.709	9.701	9.727	VV	280	3711	0.05%	0.015%
138	9.749	9.727	9.798	VV	1442	27226	0.39%	0.108%
139	9.829	9.798	9.842	VV	781	11445	0.16%	0.045%
140	9.856	9.842	9.875	VV	1220	15485	0.22%	0.061%
141	9.888	9.875	9.914	VV	633	9260	0.13%	0.037%

142	9.955	9.914	9.971	VV	606	13231	0.19%	0.052%
143	9.999	9.971	10.007	VV	1751	22093	0.31%	0.087%
144	10.030	10.007	10.061	VV	38713	411711	5.85%	1.626%
145	10.080	10.061	10.119	VV	901	20976	0.30%	0.083%
146	10.125	10.119	10.142	VV	277	3027	0.04%	0.012%
147	10.163	10.142	10.172	VV	1756	20585	0.29%	0.081%
148	10.179	10.172	10.215	VV	1721	20855	0.30%	0.082%
149	10.237	10.215	10.257	VV	589	9236	0.13%	0.036%
150	10.263	10.257	10.299	VV	384	5907	0.08%	0.023%
151	10.325	10.299	10.345	VV	477	7405	0.11%	0.029%
152	10.358	10.345	10.381	VV	501	5263	0.07%	0.021%
153	10.413	10.381	10.421	PV	171	2156	0.03%	0.009%
154	10.440	10.421	10.459	VV	272	3530	0.05%	0.014%
155	10.495	10.459	10.522	VV	801	17674	0.25%	0.070%
156	10.527	10.522	10.533	VV	341	1906	0.03%	0.008%
157	10.556	10.533	10.575	VV	823	13140	0.19%	0.052%
158	10.598	10.575	10.617	VV	845	15967	0.23%	0.063%
159	10.634	10.617	10.660	VV	891	14634	0.21%	0.058%
160	10.683	10.660	10.704	VV	1227	19390	0.28%	0.077%
161	10.719	10.704	10.736	VV	396	6106	0.09%	0.024%
162	10.755	10.736	10.779	VV	1985	34194	0.49%	0.135%
163	10.805	10.779	10.819	VV	1081	21088	0.30%	0.083%
164	10.834	10.819	10.842	VV	880	11571	0.16%	0.046%
165	10.854	10.842	10.869	VV	1094	13449	0.19%	0.053%
166	10.900	10.869	10.912	VV	1297	22087	0.31%	0.087%
167	10.917	10.912	10.937	VV	1093	11832	0.17%	0.047%
168	10.960	10.937	11.001	VV	1098	30989	0.44%	0.122%
169	11.030	11.001	11.069	VV	1738	37990	0.54%	0.150%
170	11.089	11.069	11.099	VV	491	7220	0.10%	0.029%
171	11.119	11.099	11.137	VV	710	12051	0.17%	0.048%
172	11.154	11.137	11.171	VV	1759	21381	0.30%	0.084%
173	11.181	11.171	11.205	VV	654	9866	0.14%	0.039%
174	11.230	11.205	11.256	VV	1175	19273	0.27%	0.076%
175	11.259	11.256	11.262	VV	309	1109	0.02%	0.004%
176	11.294	11.262	11.307	VV	518	11725	0.17%	0.046%
177	11.329	11.307	11.349	VV	935	15629	0.22%	0.062%
178	11.355	11.349	11.379	VV	484	5037	0.07%	0.020%
179	11.394	11.379	11.404	VV	276	3024	0.04%	0.012%
180	11.408	11.404	11.424	VV	248	2201	0.03%	0.009%
181	11.441	11.424	11.452	VV	660	7476	0.11%	0.030%
182	11.463	11.452	11.487	VV	553	6774	0.10%	0.027%
183	11.539	11.487	11.561	PV	1196	24904	0.35%	0.098%
184	11.577	11.561	11.589	VV	761	9825	0.14%	0.039%
185	11.606	11.589	11.632	VV	1544	20846	0.30%	0.082%
186	11.679	11.632	11.726	VV	909	26222	0.37%	0.104%
187	11.763	11.726	11.783	PV	883	14540	0.21%	0.057%
188	11.803	11.783	11.829	VV	633	9847	0.14%	0.039%
189	11.843	11.829	11.857	VV	357	3670	0.05%	0.014%
190	11.873	11.857	11.877	VV	232	1870	0.03%	0.007%
191	11.929	11.877	11.974	VV	634097	7037094	100.00%	27.788%
192	11.991	11.974	12.009	VV	2165	29046	0.41%	0.115%
193	12.022	12.009	12.048	VV	1502	23845	0.34%	0.094%
194	12.089	12.048	12.099	VV	1223	26924	0.38%	0.106%

rteres

195	12.107	12.099	12.123	VV	1328	14063	0.20%	0.056%
196	12.140	12.123	12.166	VV	995	15150	0.22%	0.060%
197	12.174	12.166	12.189	VV	353	3276	0.05%	0.013%
198	12.208	12.189	12.227	VV	496	8171	0.12%	0.032%
199	12.268	12.227	12.291	VV	1563	37519	0.53%	0.148%
200	12.326	12.291	12.350	VV	7465	98529	1.40%	0.389%
201	12.366	12.350	12.389	VV	1297	17835	0.25%	0.070%
202	12.430	12.389	12.452	VV	1162	24195	0.34%	0.096%
203	12.522	12.452	12.594	VV	63118	794104	11.28%	3.136%
204	12.603	12.594	12.622	VV	886	12459	0.18%	0.049%
205	12.638	12.622	12.642	VV	782	8538	0.12%	0.034%
206	12.649	12.642	12.667	VV	756	10796	0.15%	0.043%
207	12.702	12.667	12.714	VV	899	22508	0.32%	0.089%
208	12.773	12.714	12.812	VV	3466	80585	1.15%	0.318%
209	12.857	12.812	12.879	VV	2621	44330	0.63%	0.175%
210	12.916	12.879	12.939	VV	2545	45038	0.64%	0.178%
211	12.976	12.939	13.026	VV	3908	63903	0.91%	0.252%
212	13.037	13.026	13.047	VV	200	1935	0.03%	0.008%
213	13.053	13.047	13.082	VV	222	3248	0.05%	0.013%
214	13.093	13.082	13.097	VV	188	1272	0.02%	0.005%
215	13.104	13.097	13.119	VV	219	2311	0.03%	0.009%
216	13.137	13.119	13.155	VV	890	11265	0.16%	0.044%
217	13.189	13.155	13.251	VV	1045	30441	0.43%	0.120%
218	13.271	13.251	13.293	VV	1937	24302	0.35%	0.096%
219	13.316	13.293	13.329	VV	908	13908	0.20%	0.055%
220	13.360	13.329	13.392	VV	109296	1302851	18.51%	5.145%
221	13.409	13.392	13.430	VV	726	13730	0.20%	0.054%
222	13.445	13.430	13.502	VV	730	18812	0.27%	0.074%
223	13.547	13.502	13.557	VV	1020	23477	0.33%	0.093%
224	13.581	13.557	13.627	VV	4370	76143	1.08%	0.301%
225	13.649	13.627	13.655	VV	493	6940	0.10%	0.027%
226	13.668	13.655	13.686	VV	655	9359	0.13%	0.037%
227	13.705	13.686	13.715	VV	827	11987	0.17%	0.047%
228	13.752	13.715	13.810	VV	20525	275063	3.91%	1.086%
229	13.820	13.810	13.842	VV	1105	17425	0.25%	0.069%
230	13.860	13.842	13.885	VV	1715	26567	0.38%	0.105%
231	13.898	13.885	13.902	VV	526	4566	0.06%	0.018%
232	13.932	13.902	13.948	VV	820	16232	0.23%	0.064%
233	13.970	13.948	13.997	VV	955	19468	0.28%	0.077%
234	14.009	13.997	14.014	VV	643	5842	0.08%	0.023%
235	14.064	14.014	14.088	VV	2250	42183	0.60%	0.167%
236	14.115	14.088	14.162	VV	1750	40981	0.58%	0.162%
237	14.178	14.162	14.193	VV	621	7846	0.11%	0.031%
238	14.209	14.193	14.223	VV	270	3945	0.06%	0.016%
239	14.231	14.223	14.243	VV	342	2822	0.04%	0.011%
240	14.248	14.243	14.272	VV	288	3132	0.04%	0.012%
241	14.331	14.294	14.337	PV	369	4936	0.07%	0.019%
242	14.345	14.337	14.351	VV	330	2558	0.04%	0.010%
243	14.355	14.351	14.379	VV	307	3936	0.06%	0.016%
244	14.385	14.379	14.389	VV	206	1143	0.02%	0.005%
245	14.402	14.389	14.429	VV	227	3223	0.05%	0.013%
246	14.447	14.429	14.464	PV	392	5551	0.08%	0.022%

rteres

247	14.480	14.464	14.484	VV	384	4021	0.06%	0.016%
248	14.507	14.484	14.530	VV	948	18026	0.26%	0.071%
249	14.551	14.530	14.577	VV	1637	32991	0.47%	0.130%
250	14.593	14.577	14.629	VV	1393	24035	0.34%	0.095%
251	14.635	14.629	14.653	VV	369	4567	0.06%	0.018%
252	14.677	14.653	14.692	VV	1368	19801	0.28%	0.078%
253	14.703	14.692	14.712	VV	771	8519	0.12%	0.034%
254	14.732	14.712	14.750	VV	1158	18368	0.26%	0.073%
255	14.774	14.750	14.793	VV	951	16702	0.24%	0.066%
256	14.805	14.793	14.822	VV	668	9272	0.13%	0.037%
257	14.837	14.822	14.862	VV	862	13581	0.19%	0.054%
258	14.886	14.862	14.931	VV	1728	30466	0.43%	0.120%
259	14.934	14.931	14.948	VV	306	2362	0.03%	0.009%
260	14.958	14.948	14.973	VV	467	5505	0.08%	0.022%
261	14.991	14.973	15.014	VV	543	10322	0.15%	0.041%
262	15.025	15.014	15.045	VV	443	6226	0.09%	0.025%
263	15.055	15.045	15.092	VV	305	5400	0.08%	0.021%
264	15.100	15.092	15.107	VV	171	1316	0.02%	0.005%
265	15.113	15.107	15.129	VV	297	3352	0.05%	0.013%
266	15.149	15.129	15.161	VV	1033	12404	0.18%	0.049%
267	15.187	15.161	15.203	VV	2288	39766	0.57%	0.157%
268	15.217	15.203	15.236	VV	2055	29089	0.41%	0.115%
269	15.261	15.236	15.294	VV	4562	67019	0.95%	0.265%
270	15.319	15.294	15.327	VV	513	7927	0.11%	0.031%
271	15.332	15.327	15.343	VV	379	2830	0.04%	0.011%
272	15.351	15.343	15.363	VV	403	3997	0.06%	0.016%
273	15.387	15.363	15.426	VV	587	12156	0.17%	0.048%
274	15.456	15.426	15.497	VV	593	13932	0.20%	0.055%
275	15.505	15.497	15.550	VV	333	5530	0.08%	0.022%
276	15.596	15.550	15.681	PV	11305	216595	3.08%	0.855%
277	15.696	15.681	15.706	VV	454	5960	0.08%	0.024%
278	15.741	15.706	15.776	VV	1753	41974	0.60%	0.166%
279	15.789	15.776	15.802	VV	526	6648	0.09%	0.026%
280	15.824	15.802	15.843	VV	1352	19498	0.28%	0.077%
281	15.859	15.843	15.901	VV	976	17887	0.25%	0.071%
282	15.946	15.901	15.953	VV	639	13396	0.19%	0.053%
283	15.988	15.953	16.011	VV	801	21892	0.31%	0.086%
284	16.016	16.011	16.036	VV	518	6455	0.09%	0.025%
285	16.058	16.036	16.078	VV	638	11825	0.17%	0.047%
286	16.118	16.078	16.139	VV	808	22896	0.33%	0.090%
287	16.148	16.139	16.164	VV	608	7785	0.11%	0.031%
288	16.199	16.164	16.216	VV	800	16569	0.24%	0.065%
289	16.239	16.216	16.276	VV	2153	36264	0.52%	0.143%
290	16.300	16.276	16.324	VV	875	16126	0.23%	0.064%
291	16.328	16.324	16.349	VV	269	2664	0.04%	0.011%
292	16.425	16.377	16.444	PV	580	10920	0.16%	0.043%
293	16.459	16.444	16.475	VV	427	5401	0.08%	0.021%
294	16.483	16.475	16.487	VV	255	1348	0.02%	0.005%
295	16.500	16.487	16.504	VV	247	2151	0.03%	0.008%
296	16.528	16.504	16.557	VV	426	6750	0.10%	0.027%
297	16.574	16.557	16.583	PV	300	3120	0.04%	0.012%
298	16.622	16.583	16.662	VV	1323	28314	0.40%	0.112%
299	16.720	16.662	16.752	VV	2035	53229	0.76%	0.210%

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300	16.804	16.752	16.822	VV	1160	22303	0.32%	0.088%
301	16.848	16.822	16.878	VV	892	17975	0.26%	0.071%
302	16.885	16.878	16.888	VV	430	2115	0.03%	0.008%
303	16.893	16.888	16.914	VV	467	5595	0.08%	0.022%
304	16.931	16.914	16.950	VV	478	7287	0.10%	0.029%
305	16.956	16.950	16.967	VV	296	2016	0.03%	0.008%
306	17.026	16.967	17.059	VV	1122	25341	0.36%	0.100%
307	17.082	17.059	17.124	VV	1098	19432	0.28%	0.077%
308	17.152	17.124	17.166	VV	928	15894	0.23%	0.063%
309	17.186	17.166	17.210	VV	2597	37955	0.54%	0.150%
310	17.239	17.210	17.284	VV	1469	32213	0.46%	0.127%
311	17.298	17.284	17.312	VV	413	5022	0.07%	0.020%
312	17.316	17.312	17.334	VV	339	3476	0.05%	0.014%
313	17.340	17.334	17.358	VV	239	2042	0.03%	0.008%
314	17.369	17.358	17.379	PV	173	1243	0.02%	0.005%
315	17.393	17.379	17.412	VV	243	2977	0.04%	0.012%
316	17.438	17.412	17.476	VV	611	14934	0.21%	0.059%
317	17.483	17.476	17.487	VV	363	2188	0.03%	0.009%
318	17.508	17.487	17.515	VV	494	6225	0.09%	0.025%
319	17.525	17.515	17.539	VV	437	5519	0.08%	0.022%
320	17.582	17.539	17.594	VV	950	19966	0.28%	0.079%
321	17.636	17.594	17.662	VV	2379	45562	0.65%	0.180%
322	17.672	17.662	17.689	VV	317	3199	0.05%	0.013%
323	17.721	17.689	17.727	VV	392	4910	0.07%	0.019%
324	17.755	17.727	17.781	VV	489	8677	0.12%	0.034%
325	17.793	17.781	17.798	PV	264	1474	0.02%	0.006%
326	17.813	17.798	17.831	VV	515	5849	0.08%	0.023%
327	17.869	17.831	17.892	VV	410	7903	0.11%	0.031%
328	17.925	17.892	17.948	VV	394	7931	0.11%	0.031%
329	17.982	17.948	17.987	VV	242	3805	0.05%	0.015%
330	18.041	17.987	18.051	VV	1122	22536	0.32%	0.089%
331	18.075	18.051	18.111	VV	3528	58676	0.83%	0.232%
332	18.164	18.111	18.196	VV	3605	59044	0.84%	0.233%
333	18.225	18.196	18.242	VV	815	14487	0.21%	0.057%
334	18.252	18.242	18.279	VV	634	8634	0.12%	0.034%
335	18.297	18.279	18.302	VV	265	2777	0.04%	0.011%
336	18.311	18.302	18.330	VV	345	3400	0.05%	0.013%
337	18.351	18.330	18.377	VV	474	6517	0.09%	0.026%
338	18.400	18.377	18.411	PV	831	9560	0.14%	0.038%
339	18.435	18.411	18.474	VV	3807	85552	1.22%	0.338%
340	18.498	18.474	18.529	VV	5478	83471	1.19%	0.330%
341	18.536	18.529	18.556	VV	359	3950	0.06%	0.016%
342	18.561	18.556	18.567	VV	293	1478	0.02%	0.006%
343	18.590	18.567	18.612	VV	1126	17485	0.25%	0.069%
344	18.618	18.612	18.654	VV	518	7167	0.10%	0.028%
345	18.680	18.654	18.685	PV	169	1471	0.02%	0.006%
346	18.707	18.685	18.729	PV	1064	12977	0.18%	0.051%
347	18.745	18.729	18.751	PV	280	2458	0.03%	0.010%
348	18.770	18.751	18.779	VV	216	2670	0.04%	0.011%
349	18.793	18.779	18.801	PBA	160	5526	0.08%	0.022%

Sum of corrected areas: 25324129

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-5			SDG No.:	P4839
Lab Sample ID:	P4839-21			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	84.8
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/19/24 11:17	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	106		10	4.47	11.8	mg/kg	FC067820.D
Aliphatic C12-C16	Aliphatic C12-C16	288		20	5.65	15.7	mg/kg	FC067821.D
Aliphatic C16-C21	Aliphatic C16-C21	109		10	3.53	11.8	mg/kg	FC067820.D
Aliphatic C21-C28	Aliphatic C21-C28	54.6		10	9.42	15.7	mg/kg	FC067820.D
Aliphatic C28-C40	Aliphatic C28-C40	76.4		10	21.2	23.5	mg/kg	FC067820.D
Aromatic C10-C12	Aromatic C10-C12	17.6		10	3.53	7.85	mg/kg	FD048778.D
Aromatic C12-C16	Aromatic C12-C16	113		10	4.00	11.8	mg/kg	FD048778.D
Aromatic C16-C21	Aromatic C16-C21	130		10	11.3	19.6	mg/kg	FD048778.D
Aromatic C21-C36	Aromatic C21-C36	55.0		1	2.35	3.14	mg/kg	FD048762.D
Total AliphaticEPH	Total AliphaticEPH	634			44.3	78.5	mg/kg	
Total AromaticEPH	Total AromaticEPH	316			21.2	42.4	mg/kg	
Total EPH	Total EPH	950			65.5	121	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:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-5		SDG No.:	P4839	
Lab Sample ID:	P4839-21		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067803.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	113	E	0.45	1.18	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	314	E	0.28	0.79	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	103	E	0.35	1.18	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	56.8	E	0.94	1.57	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	57.5	E	2.12	2.35	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.6		40 - 140	75%	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:	P4839-21	Acq On:	18 Nov 2024 12:18
Client Sample ID:	EX-4-TPH-5	Operator:	YP/AJ
Data file:	FC067803.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	239820882	1450	300	ug/ml
Aliphatic C12-C16	6.449	9.838	683054797	4010	200	ug/ml
Aliphatic C16-C21	9.839	13.196	224099932	1320	300	ug/ml
Aliphatic C21-C28	13.197	16.850	113767486	723.343	400	ug/ml
Aliphatic C28-C40	16.851	21.691	88766701	732.935	600	ug/ml
Aliphatic EPH	3.172	21.691	1349509798	8230		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	5461116	37.62		ug/ml
Aliphatic C9-C28	3.172	16.850	1260743097	7500	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067803.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:18
Operator : YP/AJ
Sample : P4839-21
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:54:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.932	5461116	37.621 ug/mlm
Spiked Amount 50.000		Recovery = 75.24%	
Target Compounds			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067803.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:18
Operator : YP/AJ
Sample : P4839-21
Misc :
ALS Vial : 15 Sample Multiplier: 1

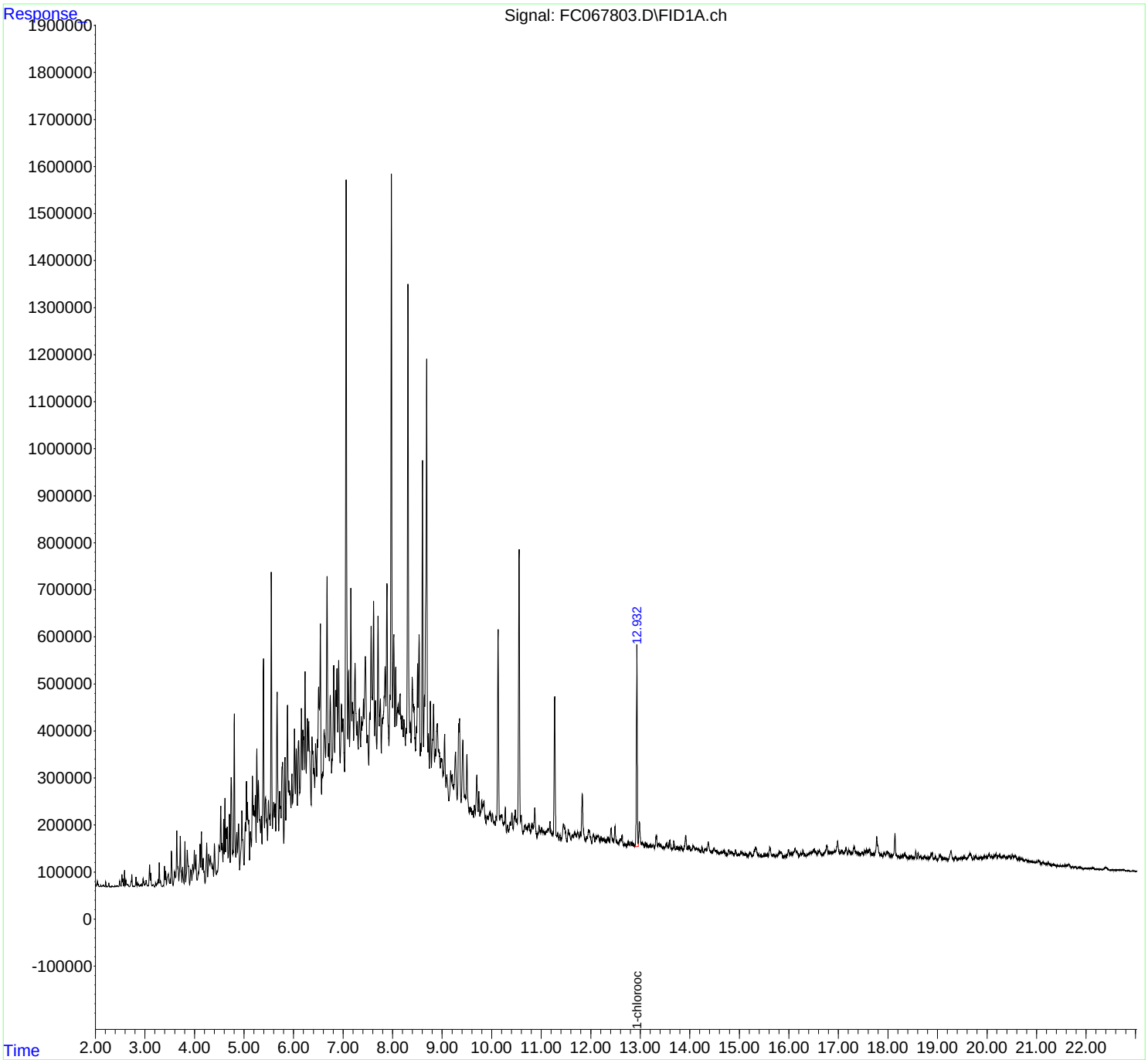
Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5

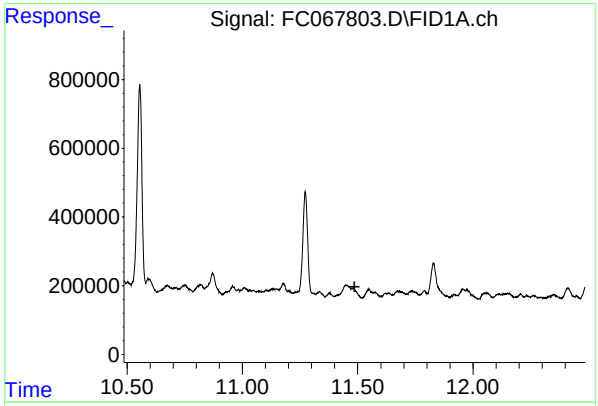
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:54:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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





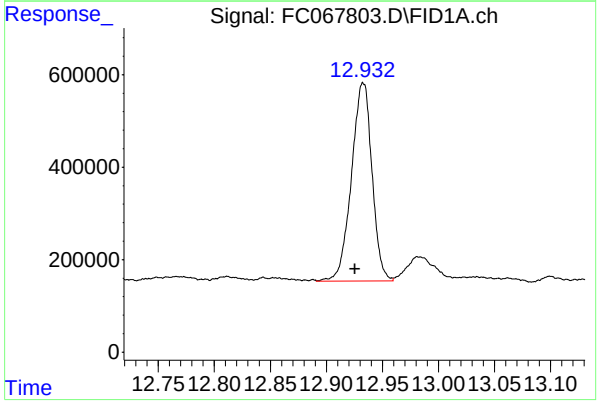
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5

Manual Integrations
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Supervised By :Ankita Jodhani 11/19/2024



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: 0.006 min
Response: 5461116
Conc: 37.62 ug/ml m

Instrument :
FID_C
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rteres

Area Percent Report

Manual IntegrationsAPPROVED

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Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067803.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:18
Sample : P4839-21
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.264	3.224	3.273	BV	14012	150282	0.51%	0.011%
2	3.288	3.273	3.304	VV	49627	460172	1.57%	0.034%
3	3.313	3.304	3.349	VV	11660	127337	0.43%	0.009%
4	3.394	3.349	3.407	PV	43458	437627	1.49%	0.032%
5	3.418	3.407	3.435	VV	33573	338825	1.16%	0.025%
6	3.471	3.435	3.497	VV	26852	620169	2.12%	0.046%
7	3.508	3.497	3.517	VV	15028	129587	0.44%	0.010%
8	3.535	3.517	3.568	VV	75546	952260	3.25%	0.071%
9	3.599	3.568	3.617	VV	32086	537601	1.83%	0.040%
10	3.642	3.617	3.684	VV	118025	1943569	6.63%	0.144%
11	3.714	3.684	3.746	VV	106710	1591876	5.43%	0.118%
12	3.761	3.746	3.789	VV	41122	547125	1.87%	0.041%
13	3.807	3.789	3.824	VV	95610	873319	2.98%	0.065%
14	3.855	3.824	3.902	VV	76516	1741465	5.94%	0.129%
15	3.925	3.902	3.947	VV	34417	577528	1.97%	0.043%
16	3.964	3.947	3.981	VV	45891	678830	2.32%	0.050%
17	3.997	3.981	4.014	VV	75568	1015727	3.47%	0.075%
18	4.029	4.014	4.052	VV	66111	863457	2.95%	0.064%
19	4.113	4.052	4.125	VV	89336	1716441	5.86%	0.127%
20	4.140	4.125	4.161	VV	114639	1489381	5.08%	0.110%
21	4.176	4.161	4.213	VV	58624	1010408	3.45%	0.075%
22	4.247	4.213	4.266	VV	92231	1362686	4.65%	0.101%
23	4.288	4.266	4.309	VV	66987	1243652	4.24%	0.092%
24	4.323	4.309	4.361	VV	63414	1495760	5.10%	0.111%
25	4.371	4.361	4.385	VV	44525	505563	1.73%	0.037%
26	4.403	4.385	4.441	VV	88202	1575311	5.38%	0.117%
27	4.495	4.441	4.512	VV	85543	2167045	7.40%	0.161%
28	4.530	4.512	4.574	VV	169743	3643621	12.43%	0.270%
29	4.589	4.574	4.600	VV	140474	1536723	5.24%	0.114%
30	4.615	4.600	4.629	VV	185758	2099479	7.16%	0.156%
31	4.642	4.629	4.652	VV	121531	1452160	4.96%	0.108%
32	4.662	4.652	4.680	VV	125034	1561533	5.33%	0.116%
33	4.705	4.680	4.721	VV	151151	2382822	8.13%	0.177%
34	4.742	4.721	4.784	VV	229247	4794091	16.36%	0.355%
35	4.804	4.784	4.833	VV	361681	4828730	16.48%	0.358%
36	4.854	4.833	4.869	VV	113173	1840638	6.28%	0.136%

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Manual IntegrationsAPPROVED

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rteres

37	4.890	4.869	4.912	VV	130646	2379562	8.12%	0.176%
38	4.957	4.912	5.001	VV	157748	4483419	15	
39	5.026	5.001	5.034	VV	133528	1848498	6	
40	5.049	5.034	5.113	VV	221133	6768536	23	
41	5.129	5.113	5.150	VV	113217	2015161	6	
42	5.171	5.150	5.216	VV	230865	6362369	21	
43	5.228	5.216	5.242	VV	190091	2416837	8.25%	0.179%
44	5.259	5.242	5.274	VV	289571	3803142	12.98%	0.282%
45	5.290	5.274	5.335	VV	222332	5826721	19.88%	0.432%
46	5.349	5.335	5.362	VV	145919	1993171	6.80%	0.148%
47	5.392	5.362	5.414	VV	476231	7405710	25.27%	0.549%
48	5.432	5.414	5.475	VV	184559	5344532	18.24%	0.396%
49	5.494	5.475	5.528	VV	179297	4632954	15.81%	0.343%
50	5.551	5.528	5.576	VV	660537	9144924	31.21%	0.677%
51	5.600	5.576	5.614	VV	174996	3516304	12.00%	0.260%
52	5.627	5.614	5.641	VV	172606	2466433	8.42%	0.183%
53	5.668	5.641	5.701	VV	406833	8350642	28.50%	0.619%
54	5.720	5.701	5.748	VV	197611	4535673	15.48%	0.336%
55	5.778	5.748	5.803	VV	260316	6474063	22.09%	0.480%
56	5.827	5.803	5.845	VV	268160	4529904	15.46%	0.336%
57	5.878	5.845	5.948	VV	379628	13771615	47.00%	1.020%
58	5.967	5.948	5.983	VV	233098	4080336	13.92%	0.302%
59	6.019	5.983	6.038	VV	328096	7753161	26.46%	0.574%
60	6.056	6.038	6.076	VV	288002	5355720	18.28%	0.397%
61	6.102	6.076	6.128	VV	302307	7540403	25.73%	0.559%
62	6.160	6.128	6.175	VV	374776	7795478	26.60%	0.577%
63	6.190	6.175	6.214	VV	323335	6828940	23.30%	0.506%
64	6.233	6.214	6.255	VV	451874	8109287	27.67%	0.601%
65	6.279	6.255	6.294	VV	351279	7046391	24.05%	0.522%
66	6.307	6.294	6.355	VV	345146	9779588	33.37%	0.724%
67	6.374	6.355	6.428	VV	310095	10889258	37.16%	0.807%
68	6.445	6.428	6.468	VV	297153	6279350	21.43%	0.465%
69	6.506	6.468	6.523	VV	419006	10992752	37.51%	0.814%
70	6.541	6.523	6.565	VV	549505	9607664	32.79%	0.712%
71	6.618	6.565	6.647	VV	325492	13136299	44.83%	0.973%
72	6.677	6.647	6.722	VV	653507	17168882	58.59%	1.272%
73	6.741	6.722	6.769	VV	398640	9119926	31.12%	0.676%
74	6.812	6.769	6.831	VV	463203	12173926	41.54%	0.902%
75	6.876	6.831	6.893	VV	458065	14186594	48.41%	1.051%
76	6.912	6.893	6.940	VV	471958	10395009	35.47%	0.770%
77	6.968	6.940	6.984	VV	379148	8497163	29.00%	0.629%
78	7.000	6.984	7.030	VV	346571	8556200	29.20%	0.634%
79	7.063	7.030	7.096	VV	1501024	26933982	91.91%	1.995%
80	7.112	7.096	7.132	VV	452021	8133805	27.76%	0.603%
81	7.158	7.132	7.177	VV	624821	11772189	40.17%	0.872%
82	7.187	7.177	7.215	VV	377433	8035115	27.42%	0.595%
83	7.243	7.215	7.275	VV	462774	13832872	47.21%	1.025%
84	7.287	7.275	7.305	VV	342275	5766156	19.68%	0.427%
85	7.328	7.305	7.355	VV	368880	9757248	33.30%	0.723%
86	7.369	7.355	7.380	VV	353430	4923132	16.80%	0.365%
87	7.412	7.380	7.424	VV	389450	9412510	32.12%	0.697%
88	7.450	7.424	7.518	VV	479775	20243854	69.08%	1.500%
89	7.567	7.518	7.593	VV	541886	17502132	59.73%	1.296%

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rteres

90	7.617	7.593	7.636	VV	601085	11688404	39.89%	0.866%
91	7.655	7.636	7.680	VV	387026	9097134	31	
92	7.707	7.680	7.729	VV	563580	12034561	41	
93	7.753	7.729	7.772	VV	389243	9079749	30	
94	7.850	7.772	7.865	VV	454694	20787371	70	
95	7.886	7.865	7.926	VV	634181	15856903	54	
96	7.977	7.926	8.001	VV	1511365	29055820	99.15%	2.152%
97	8.024	8.001	8.046	VV	524429	11739384	40.06%	0.870%
98	8.063	8.046	8.083	VV	456533	8700833	29.69%	0.645%
99	8.113	8.083	8.134	VV	376643	11045500	37.69%	0.818%
100	8.149	8.134	8.184	VV	397541	10967459	37.43%	0.812%
101	8.196	8.184	8.218	VV	351951	6652415	22.70%	0.493%
102	8.232	8.218	8.258	VV	341875	7809456	26.65%	0.578%
103	8.311	8.258	8.350	VV	1266428	29303472	100.00%	2.171%
104	8.360	8.350	8.376	VV	336000	5075398	17.32%	0.376%
105	8.398	8.376	8.463	VV	432848	18482893	63.07%	1.369%
106	8.505	8.463	8.517	VV	459555	11484874	39.19%	0.851%
107	8.536	8.517	8.560	VV	520935	10639708	36.31%	0.788%
108	8.571	8.560	8.579	VV	294208	3364934	11.48%	0.249%
109	8.604	8.579	8.626	VV	889001	14486606	49.44%	1.073%
110	8.688	8.626	8.711	VV	1101259	28039603	95.69%	2.077%
111	8.724	8.711	8.743	VV	315426	5428189	18.52%	0.402%
112	8.763	8.743	8.785	VV	384251	7856999	26.81%	0.582%
113	8.828	8.785	8.848	VV	376598	11431430	39.01%	0.847%
114	8.863	8.848	8.873	VV	276378	4054345	13.84%	0.300%
115	8.901	8.873	8.963	VV	332404	15646297	53.39%	1.159%
116	8.978	8.963	9.019	VV	259561	8356969	28.52%	0.619%
117	9.050	9.019	9.078	VV	311122	8852655	30.21%	0.656%
118	9.094	9.078	9.141	VV	225465	7554678	25.78%	0.560%
119	9.174	9.141	9.190	VV	233148	6011914	20.52%	0.445%
120	9.202	9.190	9.235	VV	225475	5792403	19.77%	0.429%
121	9.270	9.235	9.304	VV	273149	9249115	31.56%	0.685%
122	9.351	9.304	9.385	VV	343033	12320088	42.04%	0.913%
123	9.418	9.385	9.474	VV	298947	11538148	39.37%	0.855%
124	9.501	9.474	9.544	VV	268770	8127648	27.74%	0.602%
125	9.556	9.544	9.567	VV	153692	2076429	7.09%	0.154%
126	9.578	9.567	9.601	VV	156320	3069093	10.47%	0.227%
127	9.623	9.601	9.635	VV	146846	2916204	9.95%	0.216%
128	9.654	9.635	9.671	VV	157973	3196651	10.91%	0.237%
129	9.700	9.671	9.727	VV	221901	6113908	20.86%	0.453%
130	9.742	9.727	9.762	VV	188046	3455152	11.79%	0.256%
131	9.799	9.762	9.811	VV	169670	4466595	15.24%	0.331%
132	9.845	9.811	9.884	VV	168781	6601209	22.53%	0.489%
133	9.913	9.884	9.931	VV	135911	3655023	12.47%	0.271%
134	9.972	9.931	9.999	VV	146216	5563210	18.98%	0.412%
135	10.018	9.999	10.042	VV	141654	3460701	11.81%	0.256%
136	10.051	10.042	10.074	VV	124542	2336956	7.98%	0.173%
137	10.091	10.074	10.100	VV	133162	1951605	6.66%	0.145%
138	10.131	10.100	10.161	VV	528092	10030973	34.23%	0.743%
139	10.196	10.161	10.244	VV	138987	6489334	22.15%	0.481%
140	10.276	10.244	10.300	VV	153939	4286664	14.63%	0.318%
141	10.320	10.300	10.345	VV	116096	2897304	9.89%	0.215%

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rteres

142	10.372	10.345	10.386	VV	122986	2849652	9.72%	0.211%
143	10.410	10.386	10.436	VV	141895	3761912	12	
144	10.478	10.436	10.515	VV	148766	6089663	20	
145	10.555	10.515	10.582	VV	701251	12892894	44	
146	10.593	10.582	10.634	VV	134829	3700924	12	
147	10.674	10.634	10.698	VV	116739	4168317	14	
148	10.710	10.698	10.727	VV	110610	1851083	6.32%	0.137%
149	10.751	10.727	10.786	VV	118465	3892465	13.28%	0.288%
150	10.819	10.786	10.838	VV	119112	3482379	11.88%	0.258%
151	10.871	10.838	10.911	VV	151957	5220825	17.82%	0.387%
152	10.958	10.911	10.991	VV	113950	4881566	16.66%	0.362%
153	11.008	10.991	11.087	VV	109117	5839029	19.93%	0.433%
154	11.134	11.087	11.158	VV	106507	4425341	15.10%	0.328%
155	11.178	11.158	11.221	VV	121194	3959702	13.51%	0.293%
156	11.273	11.221	11.316	VV	386167	9479591	32.35%	0.702%
157	11.334	11.316	11.358	VV	97570	2334490	7.97%	0.173%
158	11.378	11.358	11.398	VV	93470	2069639	7.06%	0.153%
159	11.449	11.398	11.472	VV	115636	4500094	15.36%	0.333%
160	11.480	11.472	11.518	VV	108435	2596164	8.86%	0.192%
161	11.548	11.518	11.603	VV	103784	4679755	15.97%	0.347%
162	11.634	11.603	11.654	VV	93182	2751978	9.39%	0.204%
163	11.672	11.654	11.711	VV	99620	3206047	10.94%	0.237%
164	11.734	11.711	11.768	VV	99304	3198964	10.92%	0.237%
165	11.789	11.768	11.804	VV	99838	2054966	7.01%	0.152%
166	11.829	11.804	11.899	VV	179549	6391959	21.81%	0.473%
167	11.919	11.899	11.931	VV	87680	1664960	5.68%	0.123%
168	11.958	11.931	12.023	VV	102179	5012212	17.10%	0.371%
169	12.052	12.023	12.086	VV	91586	3255227	11.11%	0.241%
170	12.152	12.086	12.180	VV	91246	4887492	16.68%	0.362%
171	12.207	12.180	12.223	VV	88995	2125975	7.26%	0.157%
172	12.233	12.223	12.248	VV	83366	1245501	4.25%	0.092%
173	12.262	12.248	12.304	VV	84928	2704786	9.23%	0.200%
174	12.350	12.304	12.383	VV	87048	3803264	12.98%	0.282%
175	12.411	12.383	12.465	VV	105283	4306297	14.70%	0.319%
176	12.489	12.465	12.541	VV	108643	3958337	13.51%	0.293%
177	12.554	12.541	12.570	VV	75476	1275903	4.35%	0.095%
178	12.604	12.570	12.614	VV	82022	2115330	7.22%	0.157%
179	12.633	12.614	12.730	VV	90706	5152124	17.58%	0.382%
180	12.768	12.730	12.794	VV	75387	2761772	9.42%	0.205%
181	12.811	12.794	12.834	VV	75731	1714350	5.85%	0.127%
182	12.845	12.834	12.891	VV	73239	2404680	8.21%	0.178%
183	12.933	12.891	12.960	VV	495946	8173120	27.89%	0.605%
184	12.983	12.960	13.018	VV	117208	3212242	10.96%	0.238%
185	13.033	13.018	13.083	VV	74578	2791360	9.53%	0.207%
186	13.100	13.083	13.119	VV	75728	1484076	5.06%	0.110%
187	13.131	13.119	13.181	VV	68401	2498546	8.53%	0.185%
188	13.201	13.181	13.225	VV	68446	1739058	5.93%	0.129%
189	13.263	13.225	13.290	VV	69384	2549122	8.70%	0.189%
190	13.325	13.290	13.353	VV	86949	2816073	9.61%	0.209%
191	13.367	13.353	13.394	VV	70536	1695864	5.79%	0.126%
192	13.416	13.394	13.454	VV	68977	2358245	8.05%	0.175%
193	13.471	13.454	13.492	VV	63768	1408659	4.81%	0.104%
194	13.534	13.492	13.561	VV	71091	2745081	9.37%	0.203%

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rteres

195	13.597	13.561	13.641	VV	77252	3204074	10.93%	0.237%
196	13.679	13.641	13.706	VV	73953	2500278	8	
197	13.728	13.706	13.748	VV	63988	1506502	5	
198	13.768	13.748	13.791	VV	62679	1567043	5	
199	13.830	13.791	13.854	VV	64004	2265100	7	
200	13.917	13.854	13.955	VV	87164	4053762	13	
201	13.981	13.955	14.028	VV	65190	2623055	8.95%	0.194%
202	14.067	14.028	14.111	VV	65525	3049690	10.41%	0.226%
203	14.132	14.111	14.177	VV	59654	2272261	7.75%	0.168%
204	14.186	14.177	14.222	VV	57888	1476001	5.04%	0.109%
205	14.244	14.222	14.282	VV	63924	1985825	6.78%	0.147%
206	14.315	14.282	14.345	VV	58604	2109863	7.20%	0.156%
207	14.373	14.345	14.431	VV	73187	3066839	10.47%	0.227%
208	14.488	14.431	14.583	VV	60360	4815654	16.43%	0.357%
209	14.626	14.583	14.638	VV	51515	1613777	5.51%	0.120%
210	14.640	14.638	14.653	VV	50437	463690	1.58%	0.034%
211	14.691	14.653	14.754	VV	53623	2956254	10.09%	0.219%
212	14.785	14.754	14.807	VV	54764	1567972	5.35%	0.116%
213	14.850	14.807	14.896	VV	51097	2576218	8.79%	0.191%
214	14.923	14.896	14.963	VV	54781	1925136	6.57%	0.143%
215	14.973	14.963	15.004	VV	45484	1081186	3.69%	0.080%
216	15.036	15.004	15.103	VV	51322	2779451	9.49%	0.206%
217	15.122	15.103	15.181	VV	47327	2034928	6.94%	0.151%
218	15.216	15.181	15.267	VV	48830	2314434	7.90%	0.171%
219	15.333	15.267	15.415	VV	59818	4229873	14.43%	0.313%
220	15.433	15.415	15.458	VV	44146	1067199	3.64%	0.079%
221	15.527	15.458	15.539	VV	44222	2020743	6.90%	0.150%
222	15.562	15.539	15.582	VV	44837	1097168	3.74%	0.081%
223	15.614	15.582	15.673	VV	59136	2587331	8.83%	0.192%
224	15.690	15.673	15.738	VV	43683	1597534	5.45%	0.118%
225	15.749	15.738	15.768	VV	42166	739221	2.52%	0.055%
226	15.807	15.768	15.828	VV	49761	1627781	5.55%	0.121%
227	15.846	15.828	15.898	VV	48339	1798362	6.14%	0.133%
228	15.994	15.898	16.026	VV	52972	3280430	11.19%	0.243%
229	16.048	16.026	16.067	VV	44867	1081009	3.69%	0.080%
230	16.125	16.067	16.148	VV	54884	2354960	8.04%	0.174%
231	16.161	16.148	16.208	VV	49366	1592549	5.43%	0.118%
232	16.238	16.208	16.266	VV	45466	1491476	5.09%	0.110%
233	16.286	16.266	16.308	VV	49373	1115473	3.81%	0.083%
234	16.319	16.308	16.351	VV	43934	1062230	3.62%	0.079%
235	16.404	16.351	16.413	VV	44100	1569727	5.36%	0.116%
236	16.441	16.413	16.460	VV	47203	1260672	4.30%	0.093%
237	16.512	16.460	16.538	VV	53575	2266564	7.73%	0.168%
238	16.544	16.538	16.566	VV	47459	750551	2.56%	0.056%
239	16.611	16.566	16.674	VV	50176	2918879	9.96%	0.216%
240	16.767	16.674	16.818	VV	60930	4064898	13.87%	0.301%
241	16.838	16.818	16.858	VV	46471	1071761	3.66%	0.079%
242	16.866	16.858	16.891	VV	46600	905254	3.09%	0.067%
243	16.924	16.891	16.944	VV	49447	1489908	5.08%	0.110%
244	16.983	16.944	17.033	VV	68365	2823145	9.63%	0.209%
245	17.064	17.033	17.101	VV	50134	1889304	6.45%	0.140%
246	17.154	17.101	17.184	VV	53558	2360609	8.06%	0.175%

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5

rteres

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

247	17.208	17.184	17.254	VV	50237	1917563	6.54%	0.142%
248	17.314	17.254	17.375	VV	58067	3395215	11	
249	17.389	17.375	17.451	VV	44481	1902954	6	
250	17.484	17.451	17.507	VV	44401	1399324	4	
251	17.529	17.507	17.551	VV	47398	1165276	3	
252	17.570	17.551	17.594	VV	49067	1204535	4	
253	17.630	17.594	17.688	VV	50322	2459578	8.39%	0.182%
254	17.699	17.688	17.730	VV	39913	987263	3.37%	0.073%
255	17.773	17.730	17.851	VV	77598	3653960	12.47%	0.271%
256	17.871	17.851	17.891	VV	40282	924905	3.16%	0.069%
257	17.925	17.891	17.952	VV	42368	1428875	4.88%	0.106%
258	17.979	17.952	18.044	VV	44743	2263330	7.72%	0.168%
259	18.060	18.044	18.098	VV	37613	1156459	3.95%	0.086%
260	18.140	18.098	18.168	VV	82982	2155361	7.36%	0.160%
261	18.178	18.168	18.194	VV	37720	565197	1.93%	0.042%
262	18.209	18.194	18.234	VV	35252	796430	2.72%	0.059%
263	18.253	18.234	18.265	VV	33691	614414	2.10%	0.046%
264	18.296	18.265	18.309	VV	36382	898217	3.07%	0.067%
265	18.337	18.309	18.401	VV	39036	1888611	6.45%	0.140%
266	18.414	18.401	18.423	VV	31259	412220	1.41%	0.031%
267	18.436	18.423	18.453	VV	33783	574678	1.96%	0.043%
268	18.469	18.453	18.526	VV	36087	1384767	4.73%	0.103%
269	18.560	18.526	18.587	VV	45060	1279100	4.37%	0.095%
270	18.609	18.587	18.632	VV	41048	938499	3.20%	0.070%
271	18.655	18.632	18.708	VV	32807	1413855	4.82%	0.105%
272	18.740	18.708	18.774	VV	32786	1236129	4.22%	0.092%
273	18.784	18.774	18.803	VV	29601	509146	1.74%	0.038%
274	18.826	18.803	18.848	VV	30982	784748	2.68%	0.058%
275	18.890	18.848	18.934	VV	40287	1719581	5.87%	0.127%
276	18.960	18.934	19.010	VV	33094	1271696	4.34%	0.094%
277	19.052	19.010	19.104	VV	34289	1713720	5.85%	0.127%
278	19.119	19.104	19.149	VV	27922	721005	2.46%	0.053%
279	19.157	19.149	19.214	VV	28793	1052148	3.59%	0.078%
280	19.270	19.214	19.338	VV	43439	2333275	7.96%	0.173%
281	19.361	19.338	19.401	VV	30689	1038545	3.54%	0.077%
282	19.465	19.401	19.492	VV	29059	1472328	5.02%	0.109%
283	19.536	19.492	19.584	VV	30758	1567388	5.35%	0.116%
284	19.654	19.584	19.719	VV	37484	2492541	8.51%	0.185%
285	19.776	19.719	19.818	VV	32585	1665248	5.68%	0.123%
286	19.837	19.818	19.848	VV	28649	487462	1.66%	0.036%
287	19.873	19.848	19.901	VV	28484	876910	2.99%	0.065%
288	19.944	19.901	19.958	VV	31462	984681	3.36%	0.073%
289	19.981	19.958	20.011	VV	30843	942077	3.21%	0.070%
290	20.045	20.011	20.073	VV	34973	1200969	4.10%	0.089%
291	20.095	20.073	20.128	VV	30797	934069	3.19%	0.069%
292	20.181	20.128	20.214	VV	34600	1632019	5.57%	0.121%
293	20.242	20.214	20.288	VV	32048	1329858	4.54%	0.099%
294	20.301	20.288	20.318	VV	28494	509517	1.74%	0.038%
295	20.344	20.318	20.401	VV	31773	1442927	4.92%	0.107%
296	20.432	20.401	20.441	VV	29256	667888	2.28%	0.049%
297	20.458	20.441	20.494	VV	30599	913312	3.12%	0.068%
298	20.512	20.494	20.534	VV	31656	708455	2.42%	0.052%
299	20.572	20.534	20.620	VV	31603	1418064	4.84%	0.105%

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5

Manual IntegrationsAPPROVED

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rteres

300	20.647	20.620	20.658	VV	24600	528463	1.80%	0.039%
301	20.670	20.658	20.687	VV	24388	407359		
302	20.698	20.687	20.761	VV	23810	969830		
303	20.783	20.761	20.827	VV	23068	814222		
304	20.839	20.827	20.869	VV	19381	456294		
305	20.880	20.869	20.906	VV	18639	389565		
306	20.914	20.906	20.941	VV	17263	354910	1.21%	0.026%
307	20.959	20.941	21.014	VV	16858	706907	2.41%	0.052%
308	21.040	21.014	21.094	VV	20288	798954	2.73%	0.059%
309	21.131	21.094	21.164	VV	16081	591082	2.02%	0.044%
310	21.174	21.164	21.200	VV	12323	260729	0.89%	0.019%
311	21.241	21.200	21.300	VV	13259	692054	2.36%	0.051%
312	21.318	21.300	21.358	VV	10514	343151	1.17%	0.025%
313	21.365	21.358	21.421	VV	9779	315839	1.08%	0.023%
314	21.436	21.421	21.472	VV	8320	223185	0.76%	0.017%
315	21.481	21.472	21.490	VV	7097	78045	0.27%	0.006%
316	21.499	21.490	21.551	VV	7540	256224	0.87%	0.019%
317	21.594	21.551	21.624	VV	9035	338109	1.15%	0.025%
318	21.651	21.624	21.707	VV	9930	367267	1.25%	0.027%
319	21.729	21.707	21.765	VV	5185	139853	0.48%	0.010%
320	21.778	21.765	21.828	VV	5024	126974	0.43%	0.009%
321	21.859	21.828	21.922	VV	3581	150902	0.51%	0.011%
322	21.930	21.922	21.958	VV	1688	17043	0.06%	0.001%
323	21.993	21.958	22.011	VV	1597	28555	0.10%	0.002%
324	22.022	22.011	22.035	VV	1031	9464	0.03%	0.001%
325	22.054	22.035	22.064	VV	721	10854	0.04%	0.001%

Sum of corrected areas: 1349993441

Aliphatic EPH 111424.M Tue Nov 19 05:26:44 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-5		SDG No.:	P4839	
Lab Sample ID:	P4839-21		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048762.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	20.9	E	0.35	0.79	mg/kg
Aromatic C12-C16	Aromatic C12-C16	117	E	0.40	1.18	mg/kg
Aromatic C16-C21	Aromatic C16-C21	108	E	1.13	1.96	mg/kg
Aromatic C21-C36	Aromatic C21-C36	55.0		2.35	3.14	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	59.6		40 - 140	119%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	67.9		40 - 140	136%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.6		40 - 140	91%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-21	Acq On:	18 Nov 2024 12:18
Client Sample ID:	EX-4-TPH-5	Operator:	YP/AJ
Data file:	FD048762.D	Misc:	
Instrument:	FID_D	ALS Vial:	65
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	51152046	266.393	200	ug/ml
Aromatic C12-C16	5.806	8.411	287999723	1500	300	ug/ml
Aromatic C16-C21	8.412	12.674	257656346	1390	500	ug/ml
Aromatic C21-C36	12.675	18.081	110284387	701.416	800	ug/ml
Aromatic EPH	4.088	18.081	707092502	3850		ug/ml
2-Bromonaphthalene (SURR)	7.372	7.372	10499703	59.64		ug/ml
2-Flurobiphenyl (SURR)	8.224	8.224	7817006	67.87		ug/ml
ortho-Terphenyl (SURR)	11.257	11.257	8765368	45.57		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048762.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:18
Operator : YP/AJ
Sample : P4839-21
Misc :
ALS Vial : 65 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:55:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.372	10499703	59.638 ug/mlm
Spiked Amount 50.000		Recovery = 119.28%	
6) S 2-Flurobiphenyl (SURR)	8.224	7817006	67.874 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 135.75%#	
11) S ortho-Terphenyl (SURR)	11.257	8765368	45.573 ug/ml
Spiked Amount 50.000		Recovery = 91.15%	
Target Compounds			

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048762.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:18
Operator : YP/AJ
Sample : P4839-21
Misc :
ALS Vial : 65 Sample Multiplier: 1

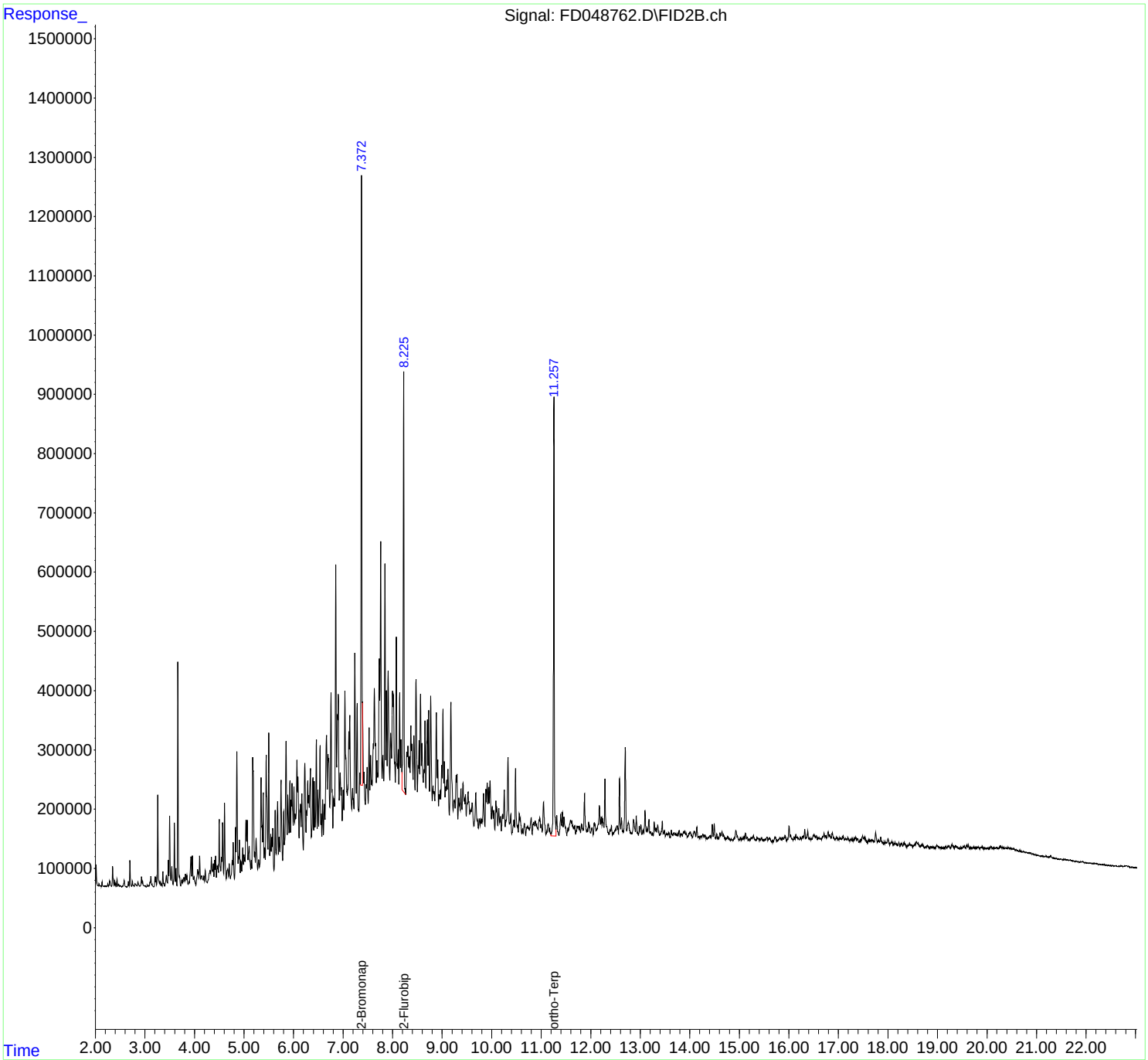
Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

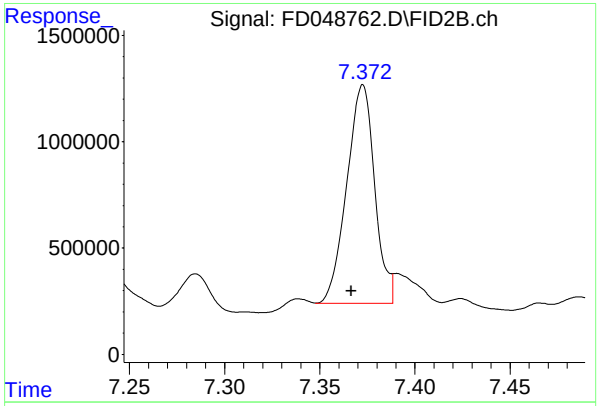
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:55:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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





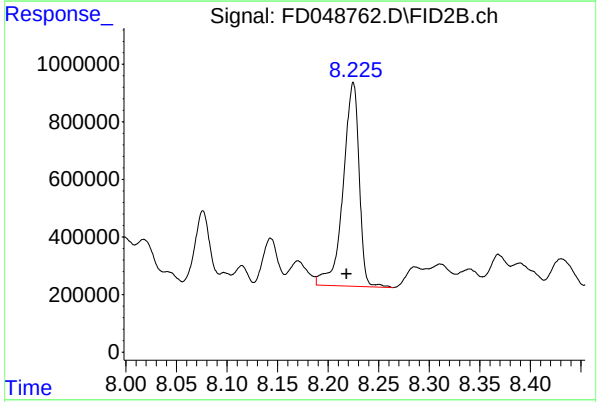
#4 2-Bromonaphthalene (SURR)

R.T.: 7.372 min
Delta R.T.: 0.006 min
Response: 10499703
Conc: 59.64 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

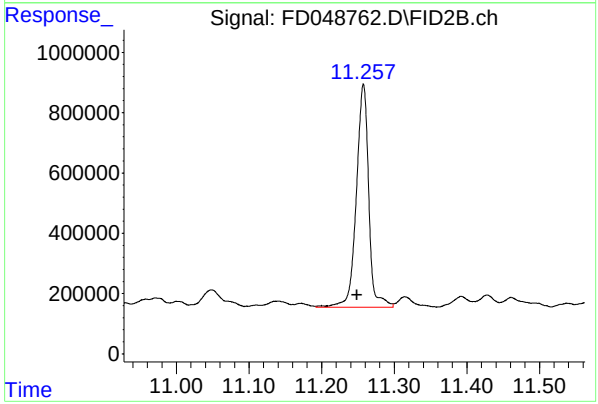
Manual Integrations
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Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: 0.006 min
Response: 7817006
Conc: 67.87 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.257 min
Delta R.T.: 0.009 min
Response: 8765368
Conc: 45.57 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048762.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:18
Sample : P4839-21
Misc :
ALS Vial : 65 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.104	4.089	4.126	PV	38158	345401	1.94%	0.049%
2	4.142	4.126	4.175	PV	6217	105155	0.59%	0.015%
3	4.189	4.175	4.202	VV	8156	69832	0.39%	0.010%
4	4.218	4.202	4.259	VV	18918	203639	1.14%	0.029%
5	4.313	4.259	4.326	PV	20415	446754	2.51%	0.063%
6	4.342	4.326	4.368	VV	42616	655955	3.69%	0.093%
7	4.380	4.368	4.393	VV	31584	330153	1.85%	0.047%
8	4.406	4.393	4.416	VV	37307	349586	1.96%	0.049%
9	4.427	4.416	4.441	VV	44496	414062	2.33%	0.058%
10	4.459	4.441	4.467	VV	27096	305821	1.72%	0.043%
11	4.474	4.467	4.484	VV	27839	253964	1.43%	0.036%
12	4.499	4.484	4.532	VV	105641	1328073	7.46%	0.188%
13	4.545	4.532	4.553	VV	42099	423414	2.38%	0.060%
14	4.568	4.553	4.588	VV	100400	1144345	6.43%	0.162%
15	4.607	4.588	4.642	VV	133031	1547799	8.70%	0.219%
16	4.670	4.642	4.686	VV	21457	418936	2.35%	0.059%
17	4.702	4.686	4.724	VV	30280	372240	2.09%	0.053%
18	4.762	4.724	4.769	VV	35623	486851	2.74%	0.069%
19	4.782	4.769	4.807	VV	66103	748103	4.20%	0.106%
20	4.830	4.807	4.840	VV	91168	892240	5.01%	0.126%
21	4.856	4.840	4.880	VV	218111	2641984	14.84%	0.373%
22	4.907	4.880	4.923	VV	69788	1106778	6.22%	0.156%
23	4.938	4.923	4.955	VV	33525	474140	2.66%	0.067%
24	4.974	4.955	4.988	VV	56498	775537	4.36%	0.110%
25	5.000	4.988	5.021	VV	44171	718922	4.04%	0.102%
26	5.039	5.021	5.054	VV	103134	1419308	7.97%	0.201%
27	5.065	5.054	5.080	VV	102575	1144977	6.43%	0.162%
28	5.104	5.080	5.135	VV	58505	1343787	7.55%	0.190%
29	5.148	5.135	5.157	VV	33962	348641	1.96%	0.049%
30	5.175	5.157	5.209	VV	207750	3858903	21.68%	0.545%
31	5.217	5.209	5.229	VV	47957	491886	2.76%	0.069%
32	5.244	5.229	5.276	VV	71406	1251296	7.03%	0.177%
33	5.297	5.276	5.311	VV	34672	573317	3.22%	0.081%
34	5.344	5.311	5.375	VV	173339	3220784	18.10%	0.455%
35	5.387	5.375	5.404	VV	147366	1614249	9.07%	0.228%
36	5.416	5.404	5.431	VV	54671	728020	4.09%	0.103%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

37	5.447	5.431	5.482	VV	210372	3710329	20.85%	0.524%
38	5.500	5.482	5.518	VV	248034	2660923	14	
39	5.540	5.518	5.551	VV	76774	1138387	6	
40	5.562	5.551	5.571	VV	71572	718551	4	
41	5.582	5.571	5.605	VV	86593	1052730	5	
42	5.629	5.605	5.644	VV	116919	1407187	7	
43	5.648	5.644	5.653	VV	45715	233130	1.31%	0.033%
44	5.679	5.653	5.695	VV	132236	2192450	12.32%	0.310%
45	5.708	5.695	5.724	VV	71367	971381	5.46%	0.137%
46	5.747	5.724	5.780	VV	167046	2964474	16.66%	0.419%
47	5.801	5.780	5.815	VV	114263	1547652	8.70%	0.219%
48	5.849	5.815	5.872	VV	232493	4331244	24.34%	0.612%
49	5.886	5.872	5.910	VV	141607	2441041	13.71%	0.345%
50	5.926	5.910	5.940	VV	165399	2076289	11.67%	0.293%
51	5.953	5.940	5.959	VV	132747	1318753	7.41%	0.186%
52	5.969	5.959	5.993	VV	160946	2546014	14.30%	0.360%
53	6.008	5.993	6.021	VV	155119	2011528	11.30%	0.284%
54	6.030	6.021	6.045	VV	109343	1495381	8.40%	0.211%
55	6.069	6.045	6.081	VV	199724	3228261	18.14%	0.456%
56	6.090	6.081	6.112	VV	171512	2335211	13.12%	0.330%
57	6.139	6.112	6.152	VV	125023	2517557	14.14%	0.356%
58	6.168	6.152	6.197	VV	142530	2594172	14.58%	0.366%
59	6.228	6.197	6.251	VV	193592	4044135	22.72%	0.571%
60	6.266	6.251	6.272	VV	114229	1238257	6.96%	0.175%
61	6.286	6.272	6.299	VV	163126	2185862	12.28%	0.309%
62	6.308	6.299	6.318	VV	138946	1520539	8.54%	0.215%
63	6.341	6.318	6.361	VV	184897	3542271	19.90%	0.500%
64	6.391	6.361	6.406	VV	168575	3012761	16.93%	0.426%
65	6.419	6.406	6.435	VV	162462	2059985	11.57%	0.291%
66	6.461	6.435	6.478	VV	232395	3650375	20.51%	0.516%
67	6.493	6.478	6.506	VV	148077	1935501	10.87%	0.273%
68	6.535	6.506	6.550	VV	222810	3762894	21.14%	0.532%
69	6.559	6.550	6.572	VV	107146	1214985	6.83%	0.172%
70	6.588	6.572	6.604	VV	130656	1902197	10.69%	0.269%
71	6.623	6.604	6.635	VV	123142	1913680	10.75%	0.270%
72	6.666	6.635	6.682	VV	238649	5105664	28.69%	0.721%
73	6.696	6.682	6.705	VV	206929	2563790	14.40%	0.362%
74	6.709	6.705	6.730	VV	199342	2535198	14.24%	0.358%
75	6.757	6.730	6.773	VV	310300	5157045	28.97%	0.729%
76	6.778	6.773	6.795	VV	147646	1578759	8.87%	0.223%
77	6.810	6.795	6.829	VV	132277	2405102	13.51%	0.340%
78	6.853	6.829	6.870	VV	526533	7368907	41.40%	1.041%
79	6.889	6.870	6.895	VV	273610	3504868	19.69%	0.495%
80	6.904	6.895	6.924	VV	305754	4002678	22.49%	0.565%
81	6.942	6.924	6.958	VV	175046	3187326	17.91%	0.450%
82	6.965	6.958	6.983	VV	149843	1929487	10.84%	0.273%
83	7.002	6.983	7.016	VV	145150	2397019	13.47%	0.339%
84	7.038	7.016	7.053	VV	313059	4687670	26.34%	0.662%
85	7.057	7.053	7.087	VV	199701	3385021	19.02%	0.478%
86	7.117	7.087	7.125	VV	242789	4134330	23.23%	0.584%
87	7.135	7.125	7.176	VV	270810	5460645	30.68%	0.771%
88	7.191	7.176	7.204	VV	147326	2177844	12.24%	0.308%
89	7.208	7.204	7.218	VV	129929	1118277	6.28%	0.158%

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90	7.238	7.218	7.266	VV	375344	6456211	36.27%	0.912%
91	7.285	7.266	7.319	VV	291098	5596236	31	
92	7.339	7.319	7.348	VV	172950	2484110	13	
93	7.373	7.348	7.415	VV	1182841	17798403	100	
94	7.424	7.415	7.451	VV	173849	3136739	17	
95	7.466	7.451	7.472	VV	153141	1782829	10	
96	7.486	7.472	7.508	VV	181976	3349399	18.82%	0.473%
97	7.526	7.508	7.541	VV	248529	3693512	20.75%	0.522%
98	7.557	7.541	7.573	VV	201236	3278779	18.42%	0.463%
99	7.578	7.573	7.587	VV	157643	1323019	7.43%	0.187%
100	7.612	7.587	7.616	VV	221226	3366137	18.91%	0.476%
101	7.632	7.616	7.651	VV	314771	5479432	30.79%	0.774%
102	7.656	7.651	7.672	VV	221795	2461583	13.83%	0.348%
103	7.683	7.672	7.695	VV	192285	2450994	13.77%	0.346%
104	7.703	7.695	7.708	VV	170634	1304112	7.33%	0.184%
105	7.729	7.708	7.741	VV	364455	5272175	29.62%	0.745%
106	7.760	7.741	7.788	VV	561578	9678935	54.38%	1.367%
107	7.803	7.788	7.823	VV	200560	3718346	20.89%	0.525%
108	7.847	7.823	7.862	VV	523920	7367638	41.39%	1.041%
109	7.875	7.862	7.891	VV	309826	4363030	24.51%	0.616%
110	7.910	7.891	7.944	VV	342579	7752816	43.56%	1.095%
111	7.961	7.944	7.980	VV	237732	4424922	24.86%	0.625%
112	7.999	7.980	8.009	VV	308488	4624810	25.98%	0.653%
113	8.018	8.009	8.056	VV	300922	6349401	35.67%	0.897%
114	8.076	8.056	8.104	VV	400240	7074566	39.75%	0.999%
115	8.115	8.104	8.126	VV	209713	2470458	13.88%	0.349%
116	8.143	8.126	8.157	VV	304255	4275894	24.02%	0.604%
117	8.170	8.157	8.188	VV	225913	3584174	20.14%	0.506%
118	8.225	8.188	8.265	VV	847486	14167932	79.60%	2.002%
119	8.286	8.265	8.294	VV	204415	3056101	17.17%	0.432%
120	8.311	8.294	8.327	VV	214469	3914866	22.00%	0.553%
121	8.340	8.327	8.353	VV	196590	2895376	16.27%	0.409%
122	8.369	8.353	8.381	VV	247893	3619352	20.34%	0.511%
123	8.390	8.381	8.414	VV	217722	3848913	21.63%	0.544%
124	8.431	8.414	8.453	VV	231479	4535532	25.48%	0.641%
125	8.473	8.453	8.501	VV	326144	6549994	36.80%	0.925%
126	8.517	8.501	8.523	VV	179527	2139217	12.02%	0.302%
127	8.535	8.523	8.547	VV	222881	2861631	16.08%	0.404%
128	8.564	8.547	8.581	VV	301498	4891867	27.48%	0.691%
129	8.593	8.581	8.620	VV	217912	4293663	24.12%	0.607%
130	8.655	8.620	8.671	VV	255553	5780132	32.48%	0.817%
131	8.703	8.671	8.715	VV	257316	5522943	31.03%	0.780%
132	8.728	8.715	8.745	VV	272806	3705282	20.82%	0.523%
133	8.771	8.745	8.801	VV	296897	6451005	36.24%	0.911%
134	8.817	8.801	8.833	VV	145515	2613672	14.68%	0.369%
135	8.839	8.833	8.853	VV	135707	1485268	8.34%	0.210%
136	8.883	8.853	8.903	VV	268521	5664763	31.83%	0.800%
137	8.913	8.903	8.929	VV	188923	2418950	13.59%	0.342%
138	8.941	8.929	8.950	VV	130149	1587900	8.92%	0.224%
139	8.962	8.950	8.973	VV	136904	1804189	10.14%	0.255%
140	8.993	8.973	9.002	VV	179103	2653692	14.91%	0.375%
141	9.017	9.002	9.033	VV	273368	3940682	22.14%	0.557%

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142	9.045	9.033	9.059	VV	185548	2494934	14.02%	0.352%
143	9.072	9.059	9.083	VV	142568	1917667	10	
144	9.094	9.083	9.104	VV	153588	1802178	10	
145	9.118	9.104	9.145	VV	171511	3499014	19	
146	9.178	9.145	9.223	VV	284707	7589996	42	
147	9.241	9.223	9.245	VV	119149	1504583	8	
148	9.249	9.245	9.264	VV	118758	1257179	7.06%	0.178%
149	9.283	9.264	9.292	VV	160855	2343122	13.16%	0.331%
150	9.300	9.292	9.319	VV	162750	2161987	12.15%	0.305%
151	9.339	9.319	9.366	VV	122654	3041725	17.09%	0.430%
152	9.380	9.366	9.402	VV	137363	2550459	14.33%	0.360%
153	9.421	9.402	9.445	VV	147263	3273882	18.39%	0.463%
154	9.451	9.445	9.461	VV	119501	1130429	6.35%	0.160%
155	9.472	9.461	9.488	VV	127835	1778603	9.99%	0.251%
156	9.524	9.488	9.560	VV	131761	4871539	27.37%	0.688%
157	9.572	9.560	9.590	VV	100974	1779186	10.00%	0.251%
158	9.606	9.590	9.640	VV	112855	2918783	16.40%	0.412%
159	9.679	9.640	9.706	VV	129687	3811614	21.42%	0.538%
160	9.713	9.706	9.731	VV	84708	1176164	6.61%	0.166%
161	9.751	9.731	9.768	VV	85621	1738224	9.77%	0.246%
162	9.781	9.768	9.793	VV	85901	1211345	6.81%	0.171%
163	9.801	9.793	9.805	VV	81500	559512	3.14%	0.079%
164	9.838	9.805	9.864	VV	127792	3417605	19.20%	0.483%
165	9.883	9.864	9.895	VV	135193	2019611	11.35%	0.285%
166	9.911	9.895	9.928	VV	145447	2607940	14.65%	0.368%
167	9.940	9.928	9.952	VV	138194	1770531	9.95%	0.250%
168	9.968	9.952	9.996	VV	148952	3147308	17.68%	0.445%
169	10.011	9.996	10.032	VV	104801	2048236	11.51%	0.289%
170	10.043	10.032	10.065	VV	99176	1703517	9.57%	0.241%
171	10.086	10.065	10.100	VV	114996	1980140	11.13%	0.280%
172	10.107	10.100	10.124	VV	100048	1269196	7.13%	0.179%
173	10.145	10.124	10.163	VV	100979	2077865	11.67%	0.294%
174	10.179	10.163	10.196	VV	87760	1552752	8.72%	0.219%
175	10.221	10.196	10.232	VV	91435	1748375	9.82%	0.247%
176	10.255	10.232	10.274	VV	132392	2514312	14.13%	0.355%
177	10.331	10.274	10.357	VV	186630	5388457	30.27%	0.761%
178	10.388	10.357	10.407	VV	91188	2297261	12.91%	0.325%
179	10.448	10.407	10.463	VV	80648	2308450	12.97%	0.326%
180	10.482	10.463	10.516	VV	167481	3277940	18.42%	0.463%
181	10.525	10.516	10.538	VV	70811	922111	5.18%	0.130%
182	10.559	10.538	10.572	VV	91470	1584057	8.90%	0.224%
183	10.579	10.572	10.608	VV	83394	1570393	8.82%	0.222%
184	10.623	10.608	10.634	VV	65286	960256	5.40%	0.136%
185	10.662	10.634	10.689	VV	73880	2120762	11.92%	0.300%
186	10.717	10.689	10.734	VV	67993	1734888	9.75%	0.245%
187	10.742	10.734	10.759	VV	66974	1005843	5.65%	0.142%
188	10.797	10.759	10.819	VV	82641	2510471	14.11%	0.355%
189	10.848	10.819	10.863	VV	75503	1825995	10.26%	0.258%
190	10.880	10.863	10.902	VV	77561	1710141	9.61%	0.242%
191	10.908	10.902	10.923	VV	72219	887690	4.99%	0.125%
192	10.930	10.923	10.938	VV	66501	571355	3.21%	0.081%
193	10.972	10.938	10.992	VV	82520	2411800	13.55%	0.341%
194	11.001	10.992	11.017	VV	70645	1019393	5.73%	0.144%

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195	11.048	11.017	11.094	VV	108630	3546742	19.93%	0.501%
196	11.110	11.094	11.115	VV	58538	713540		
197	11.141	11.115	11.158	VV	71602	1694402		
198	11.171	11.158	11.192	VV	63969	1196012		
199	11.200	11.192	11.205	VV	55508	435077		
200	11.258	11.205	11.299	VV	791099	11579242		
201	11.315	11.299	11.360	VV	85047	2381684	13.38%	0.336%
202	11.392	11.360	11.408	VV	86372	1999232	11.23%	0.282%
203	11.428	11.408	11.445	VV	90211	1709998	9.61%	0.242%
204	11.461	11.445	11.489	VV	81926	1873003	10.52%	0.265%
205	11.493	11.489	11.516	VV	63368	961278	5.40%	0.136%
206	11.538	11.516	11.548	VV	62785	1122225	6.31%	0.159%
207	11.593	11.548	11.609	VV	76499	2486950	13.97%	0.351%
208	11.620	11.609	11.633	VV	74676	1052075	5.91%	0.149%
209	11.638	11.633	11.663	VV	67889	1130728	6.35%	0.160%
210	11.677	11.663	11.695	VV	66516	1176955	6.61%	0.166%
211	11.739	11.695	11.746	VV	65047	1846647	10.38%	0.261%
212	11.750	11.746	11.767	VV	64416	802969	4.51%	0.113%
213	11.779	11.767	11.793	VV	64264	960975	5.40%	0.136%
214	11.815	11.793	11.844	VV	68329	1865231	10.48%	0.264%
215	11.875	11.844	11.920	VV	120201	3381649	19.00%	0.478%
216	11.929	11.920	11.939	VV	59367	655544	3.68%	0.093%
217	11.957	11.939	11.997	VV	70825	2112915	11.87%	0.298%
218	12.024	11.997	12.050	VV	61287	1791772	10.07%	0.253%
219	12.070	12.050	12.108	VV	70163	2178654	12.24%	0.308%
220	12.113	12.108	12.120	VV	59058	415745	2.34%	0.059%
221	12.175	12.120	12.196	VV	98468	3308889	18.59%	0.467%
222	12.211	12.196	12.227	VV	78623	1330531	7.48%	0.188%
223	12.239	12.227	12.268	VV	76480	1687491	9.48%	0.238%
224	12.287	12.268	12.321	VV	142509	2810167	15.79%	0.397%
225	12.325	12.321	12.364	VV	62617	1441788	8.10%	0.204%
226	12.389	12.364	12.398	VV	55999	1088209	6.11%	0.154%
227	12.417	12.398	12.439	VV	62994	1373143	7.71%	0.194%
228	12.453	12.439	12.465	VV	51896	761706	4.28%	0.108%
229	12.494	12.465	12.503	VV	56400	1235397	6.94%	0.175%
230	12.511	12.503	12.517	VV	56586	464412	2.61%	0.066%
231	12.529	12.517	12.560	VV	62155	1524808	8.57%	0.215%
232	12.580	12.560	12.602	VV	142077	2231025	12.53%	0.315%
233	12.620	12.602	12.636	VV	75752	1321677	7.43%	0.187%
234	12.645	12.636	12.659	VV	53734	728701	4.09%	0.103%
235	12.696	12.659	12.724	VV	194534	3811198	21.41%	0.538%
236	12.760	12.724	12.812	VV	67240	3040091	17.08%	0.429%
237	12.818	12.812	12.829	VV	49392	506126	2.84%	0.072%
238	12.863	12.829	12.900	VV	71647	2501390	14.05%	0.353%
239	12.919	12.900	12.940	VV	77030	1486553	8.35%	0.210%
240	12.946	12.940	12.963	VV	49665	658321	3.70%	0.093%
241	12.981	12.963	12.995	VV	60318	1040759	5.85%	0.147%
242	13.009	12.995	13.032	VV	63092	1224086	6.88%	0.173%
243	13.054	13.032	13.071	VV	53799	1169181	6.57%	0.165%
244	13.095	13.071	13.120	VV	85835	1898844	10.67%	0.268%
245	13.137	13.120	13.152	VV	56276	1005372	5.65%	0.142%
246	13.174	13.152	13.199	VV	70732	1655394	9.30%	0.234%

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247	13.210	13.199	13.232	VV	50126	949149	5.33%	0.134%
248	13.246	13.232	13.261	VV	47760	793375	[illegible]	
249	13.280	13.261	13.299	VV	66101	1283640	[illegible]	
250	13.314	13.299	13.333	VV	55917	1085452	[illegible]	
251	13.351	13.333	13.387	VV	60809	1700037	[illegible]	
252	13.394	13.387	13.398	VV	44538	273458	[illegible]	
253	13.444	13.398	13.470	VV	66956	2211945	12.43%	0.312%
254	13.484	13.470	13.505	VV	50740	1015708	5.71%	0.143%
255	13.522	13.505	13.535	VV	46024	778661	4.37%	0.110%
256	13.547	13.535	13.561	VV	45517	696495	3.91%	0.098%
257	13.578	13.561	13.603	VV	47140	1072855	6.03%	0.152%
258	13.626	13.603	13.649	VV	50916	1237568	6.95%	0.175%
259	13.682	13.649	13.702	VV	46210	1387061	7.79%	0.196%
260	13.712	13.702	13.724	VV	45037	575604	3.23%	0.081%
261	13.732	13.724	13.750	VV	43452	662166	3.72%	0.094%
262	13.764	13.750	13.768	VV	45055	464156	2.61%	0.066%
263	13.784	13.768	13.802	VV	49716	921638	5.18%	0.130%
264	13.822	13.802	13.851	VV	44073	1250841	7.03%	0.177%
265	13.873	13.851	13.877	VV	47622	682285	3.83%	0.096%
266	13.882	13.877	13.895	VV	47138	506923	2.85%	0.072%
267	13.904	13.895	13.917	VV	47901	586497	3.30%	0.083%
268	13.928	13.917	13.946	VV	43895	740384	4.16%	0.105%
269	13.984	13.946	13.990	VV	44859	1066510	5.99%	0.151%
270	14.011	13.990	14.051	VV	46495	1539333	8.65%	0.217%
271	14.084	14.051	14.119	VV	47508	1746750	9.81%	0.247%
272	14.141	14.119	14.163	VV	54183	1195999	6.72%	0.169%
273	14.178	14.163	14.193	VV	38206	669657	3.76%	0.095%
274	14.199	14.193	14.202	VV	36424	188154	1.06%	0.027%
275	14.225	14.202	14.230	VV	38881	629907	3.54%	0.089%
276	14.234	14.230	14.242	VV	38652	271788	1.53%	0.038%
277	14.261	14.242	14.285	VV	41645	1011124	5.68%	0.143%
278	14.307	14.285	14.327	VV	40364	947011	5.32%	0.134%
279	14.333	14.327	14.342	VV	35145	297398	1.67%	0.042%
280	14.346	14.342	14.356	VV	34513	284656	1.60%	0.040%
281	14.374	14.356	14.381	VV	35599	527700	2.96%	0.075%
282	14.405	14.381	14.428	VV	38745	1048142	5.89%	0.148%
283	14.452	14.428	14.471	VV	57333	1150304	6.46%	0.163%
284	14.491	14.471	14.523	VV	58724	1352955	7.60%	0.191%
285	14.544	14.523	14.563	VV	40658	869507	4.89%	0.123%
286	14.572	14.563	14.585	VV	34972	438511	2.46%	0.062%
287	14.606	14.585	14.622	VV	42926	847013	4.76%	0.120%
288	14.647	14.622	14.670	VV	43766	1160470	6.52%	0.164%
289	14.677	14.670	14.719	VV	38704	1017030	5.71%	0.144%
290	14.760	14.719	14.783	VV	35803	1280049	7.19%	0.181%
291	14.800	14.783	14.820	VV	32435	674214	3.79%	0.095%
292	14.837	14.820	14.847	VV	31103	496343	2.79%	0.070%
293	14.853	14.847	14.863	VV	29198	280360	1.58%	0.040%
294	14.867	14.863	14.873	VV	29786	162237	0.91%	0.023%
295	14.895	14.873	14.901	VV	32323	514835	2.89%	0.073%
296	14.929	14.901	14.958	VV	45321	1338089	7.52%	0.189%
297	14.963	14.958	14.989	VV	34928	579612	3.26%	0.082%
298	15.017	14.989	15.025	VV	32709	660597	3.71%	0.093%
299	15.028	15.025	15.049	VV	31674	440714	2.48%	0.062%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

300	15.056	15.049	15.063	VV	30051	237288	1.33%	0.034%
301	15.071	15.063	15.076	VV	32293	255738		
302	15.089	15.076	15.107	VV	33649	592671		
303	15.124	15.107	15.150	VV	39664	901782		
304	15.161	15.150	15.182	VV	32996	580422		
305	15.189	15.182	15.195	VV	27900	220737		
306	15.206	15.195	15.218	VV	28715	386851	2.17%	0.055%
307	15.245	15.218	15.259	VV	32222	746328	4.19%	0.105%
308	15.286	15.259	15.310	VV	34733	977557	5.49%	0.138%
309	15.314	15.310	15.334	VV	28516	398469	2.24%	0.056%
310	15.352	15.334	15.372	VV	31651	665258	3.74%	0.094%
311	15.378	15.372	15.399	VV	30254	477415	2.68%	0.067%
312	15.403	15.399	15.407	VV	28381	140848	0.79%	0.020%
313	15.412	15.407	15.430	VV	28899	385147	2.16%	0.054%
314	15.449	15.430	15.465	VV	30952	611592	3.44%	0.086%
315	15.471	15.465	15.480	VV	26932	240480	1.35%	0.034%
316	15.490	15.480	15.497	VV	27194	262410	1.47%	0.037%
317	15.526	15.497	15.532	VV	27452	562867	3.16%	0.080%
318	15.558	15.532	15.576	VV	31662	779987	4.38%	0.110%
319	15.613	15.576	15.650	VV	30460	1201168	6.75%	0.170%
320	15.659	15.650	15.664	VV	25241	201624	1.13%	0.028%
321	15.669	15.664	15.675	VV	24558	164403	0.92%	0.023%
322	15.680	15.675	15.687	VV	23511	156345	0.88%	0.022%
323	15.723	15.687	15.757	VV	31090	1139519	6.40%	0.161%
324	15.763	15.757	15.776	VV	25517	276702	1.55%	0.039%
325	15.825	15.776	15.845	VV	29528	1125868	6.33%	0.159%
326	15.851	15.845	15.856	VV	27120	177318	1.00%	0.025%
327	15.878	15.856	15.897	VV	29727	673245	3.78%	0.095%
328	15.921	15.897	15.951	VV	32683	930335	5.23%	0.131%
329	15.972	15.951	15.979	VV	26703	426668	2.40%	0.060%
330	16.002	15.979	16.022	VV	48305	955359	5.37%	0.135%
331	16.035	16.022	16.058	VV	33028	648040	3.64%	0.092%
332	16.063	16.058	16.084	VV	26777	389963	2.19%	0.055%
333	16.111	16.084	16.123	VV	27897	639297	3.59%	0.090%
334	16.140	16.123	16.155	VV	34048	578239	3.25%	0.082%
335	16.167	16.155	16.189	VV	28622	555940	3.12%	0.079%
336	16.193	16.189	16.215	VV	26727	396256	2.23%	0.056%
337	16.236	16.215	16.255	VV	28414	639946	3.60%	0.090%
338	16.296	16.255	16.303	VV	30567	828897	4.66%	0.117%
339	16.319	16.303	16.342	VV	41435	779074	4.38%	0.110%
340	16.347	16.342	16.351	VV	26827	141262	0.79%	0.020%
341	16.380	16.351	16.402	VV	38845	938461	5.27%	0.133%
342	16.416	16.402	16.432	VV	26700	443966	2.49%	0.063%
343	16.448	16.432	16.454	VV	25201	327285	1.84%	0.046%
344	16.501	16.454	16.535	VV	31922	1364947	7.67%	0.193%
345	16.551	16.535	16.580	VV	28296	708192	3.98%	0.100%
346	16.586	16.580	16.613	VV	25744	501508	2.82%	0.071%
347	16.626	16.613	16.637	VV	25138	342944	1.93%	0.048%
348	16.643	16.637	16.659	VV	25126	325513	1.83%	0.046%
349	16.685	16.659	16.690	VV	27880	490046	2.75%	0.069%
350	16.709	16.690	16.730	VV	33872	699588	3.93%	0.099%
351	16.743	16.730	16.760	VV	29207	506984	2.85%	0.072%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

352	16.792	16.760	16.810	VV	35683	896302	5.04%	0.127%
353	16.827	16.810	16.848	VV	30506	644873	[illegible]	
354	16.877	16.848	16.902	VV	33440	900755	[illegible]	
355	16.907	16.902	16.924	VV	24663	300426	[illegible]	
356	16.957	16.924	16.970	VV	26052	658807	[illegible]	
357	16.976	16.970	17.007	VV	24155	509624	[illegible]	
358	17.025	17.007	17.032	VV	24552	334098	1.88%	0.047%
359	17.042	17.032	17.047	VV	23114	210288	1.18%	0.030%
360	17.051	17.047	17.063	VV	23115	207422	1.17%	0.029%
361	17.093	17.063	17.127	VV	27090	903634	5.08%	0.128%
362	17.141	17.127	17.173	VV	23039	596683	3.35%	0.084%
363	17.190	17.173	17.218	VV	24606	581384	3.27%	0.082%
364	17.227	17.218	17.233	VV	19847	163686	0.92%	0.023%
365	17.253	17.233	17.270	VV	21294	438504	2.46%	0.062%
366	17.276	17.270	17.279	VV	20529	104812	0.59%	0.015%
367	17.285	17.279	17.305	VV	20958	310711	1.75%	0.044%
368	17.318	17.305	17.322	VV	22073	202430	1.14%	0.029%
369	17.327	17.322	17.333	VV	21862	150192	0.84%	0.021%
370	17.347	17.333	17.370	VV	24797	487392	2.74%	0.069%
371	17.375	17.370	17.378	VV	19936	97723	0.55%	0.014%
372	17.390	17.378	17.409	VV	21426	360262	2.02%	0.051%
373	17.450	17.409	17.459	VV	18981	514487	2.89%	0.073%
374	17.488	17.459	17.510	VV	25796	662116	3.72%	0.094%
375	17.527	17.510	17.548	VV	23465	506494	2.85%	0.072%
376	17.555	17.548	17.590	VV	18748	391234	2.20%	0.055%
377	17.602	17.590	17.625	VV	17600	343100	1.93%	0.048%
378	17.633	17.625	17.653	VV	18059	293965	1.65%	0.042%
379	17.662	17.653	17.681	VV	18128	278671	1.57%	0.039%
380	17.693	17.681	17.727	VV	17986	455920	2.56%	0.064%
381	17.750	17.727	17.792	VV	30425	792903	4.45%	0.112%
382	17.808	17.792	17.833	VV	18114	385694	2.17%	0.054%
383	17.856	17.833	17.884	VV	21647	525490	2.95%	0.074%
384	17.889	17.884	17.904	VV	13496	147466	0.83%	0.021%
385	17.922	17.904	17.931	VV	13721	195075	1.10%	0.028%
386	17.951	17.931	17.975	VV	13086	322670	1.81%	0.046%
387	18.001	17.975	18.040	VV	19035	528834	2.97%	0.075%
388	18.065	18.040	18.072	VV	12872	221329	1.24%	0.031%
389	18.087	18.072	18.107	VV	13123	230949	1.30%	0.033%
390	18.117	18.107	18.122	VV	9811	80209	0.45%	0.011%
391	18.142	18.122	18.159	VV	11460	217402	1.22%	0.031%
392	18.165	18.159	18.179	VV	9086	102582	0.58%	0.014%
393	18.186	18.179	18.200	VBA	8396	122032	0.69%	0.017%

Sum of corrected areas: 707845691

Aromatic EPH 111424.M Tue Nov 19 06:19:18 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-5		SDG No.:	P4839	
Lab Sample ID:	P4839-21		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067820.D	10	11/16/24	11/19/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	106		4.47	11.8	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	322	E	2.82	7.85	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	109		3.53	11.8	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	54.6		9.42	15.7	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	76.4		21.2	23.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	3.81		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:	P4839-21DL	Acq On:	19 Nov 2024 11:17
Client Sample ID:	P4839-21DL	Operator:	YP/AJ
Data file:	FC067820.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	22517136	135.816	300	ug/ml
Aliphatic C12-C16	6.449	9.838	70071859	411.257	200	ug/ml
Aliphatic C16-C21	9.839	13.196	23758701	140.069	300	ug/ml
Aliphatic C21-C28	13.197	16.850	10940050	69.558	400	ug/ml
Aliphatic C28-C40	16.851	21.691	11791635	97.362	600	ug/ml
Aliphatic EPH	3.172	21.691	139079381	854.062		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.938	12.938	552844	3.81		ug/ml
Aliphatic C9-C28	3.172	16.850	127287746	756.7	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067820.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:17
Operator : YP/AJ
Sample : P4839-21DL 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5DL

Integration File: sample.E
Quant Time: Nov 19 12:17:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.938	552844	3.808 ug/ml
Spiked Amount 50.000		Recovery =	7.62%
Target Compounds			

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

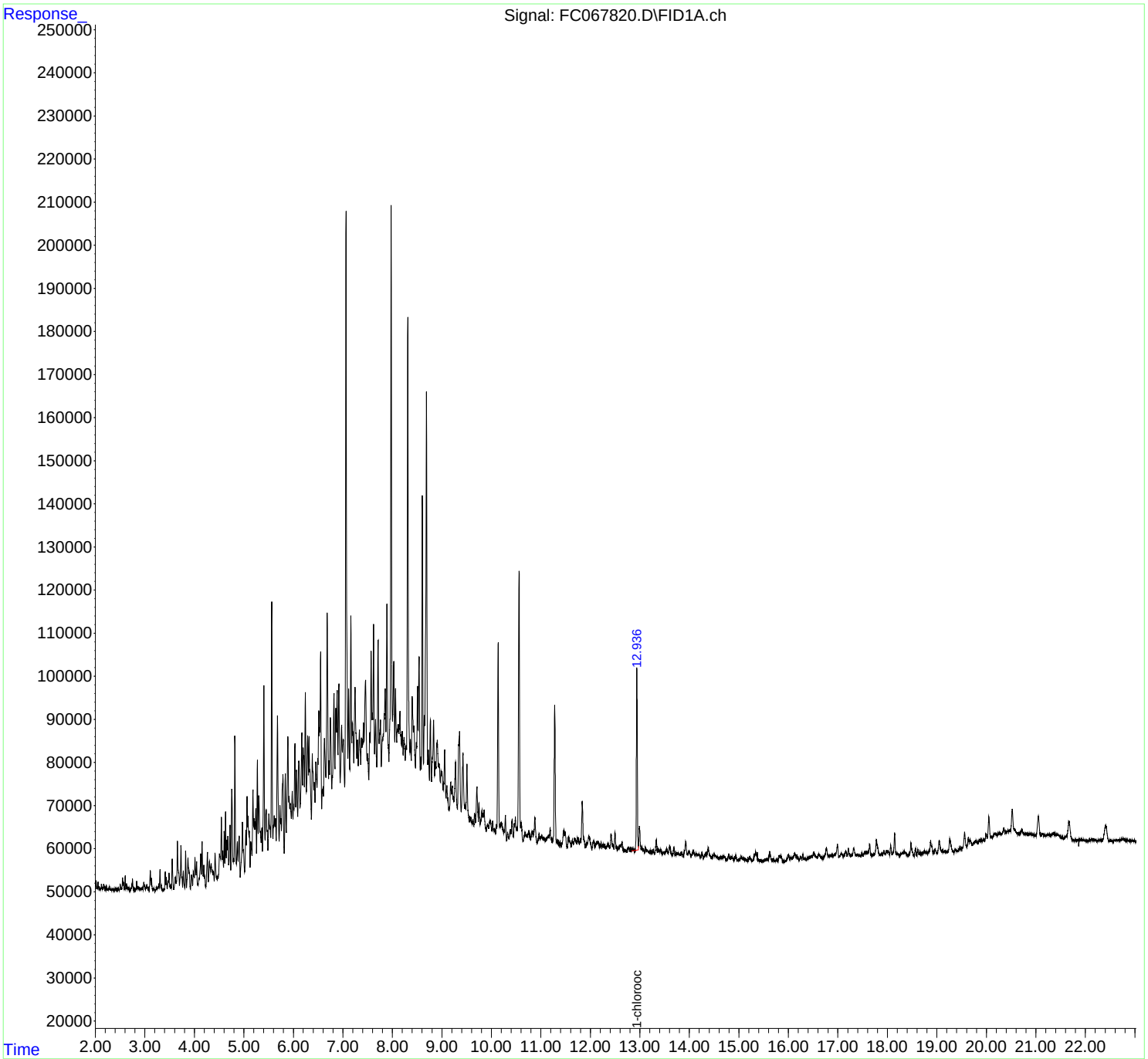
Quantitation Report (QT Reviewed)

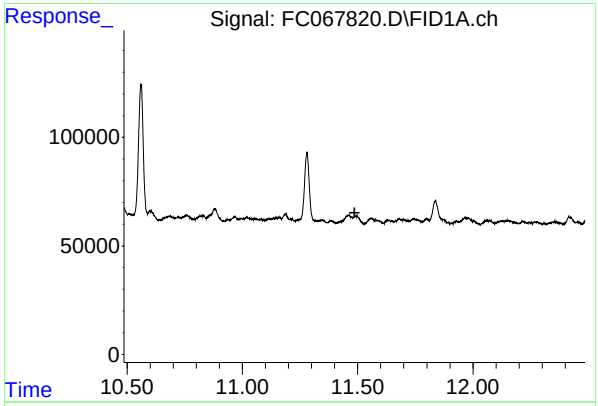
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067820.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:17
Operator : YP/AJ
Sample : P4839-21DL 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5DL

Integration File: sample.E
Quant Time: Nov 19 12:17:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

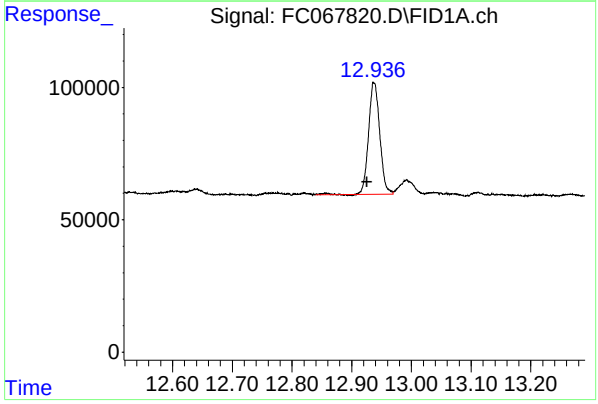




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-5DL



#12 1-chlorooctadecane (SURR)

R.T.: 12.938 min
Delta R.T.: 0.012 min
Response: 552844
Conc: 3.81 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067820.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 11:17
Sample : P4839-21DL 10X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.259	3.224	3.267	BV	383	5343	0.18%	0.004%
2	3.281	3.267	3.290	VV	1212	9602	0.32%	0.007%
3	3.305	3.290	3.321	VV	4570	40600	1.37%	0.030%
4	3.330	3.321	3.366	VV	887	3862	0.13%	0.003%
5	3.383	3.366	3.391	PV	-42	-2764	-0.09%	-0.002%
6	3.411	3.391	3.424	PV	3928	33026	1.11%	0.024%
7	3.435	3.424	3.452	VV	2762	25470	0.86%	0.019%
8	3.487	3.452	3.514	VV	2797	48287	1.62%	0.035%
9	3.526	3.514	3.534	VV	1127	8378	0.28%	0.006%
10	3.552	3.534	3.584	VV	6982	82092	2.76%	0.060%
11	3.615	3.584	3.631	PV	2771	39468	1.33%	0.029%
12	3.658	3.631	3.700	VV	11066	181944	6.12%	0.132%
13	3.730	3.700	3.762	VV	10087	143787	4.84%	0.105%
14	3.777	3.762	3.805	VV	4122	48652	1.64%	0.035%
15	3.824	3.805	3.842	VV	8815	79168	2.66%	0.058%
16	3.871	3.842	3.919	VV	7147	154960	5.21%	0.113%
17	3.942	3.919	3.964	VV	3149	48513	1.63%	0.035%
18	3.981	3.964	3.997	VV	4086	59125	1.99%	0.043%
19	4.013	3.997	4.031	VV	7204	94181	3.17%	0.068%
20	4.045	4.031	4.068	VV	6173	76645	2.58%	0.056%
21	4.129	4.068	4.141	VV	8172	156994	5.28%	0.114%
22	4.156	4.141	4.178	VV	10924	141517	4.76%	0.103%
23	4.192	4.178	4.230	VV	5495	90632	3.05%	0.066%
24	4.264	4.230	4.282	VV	8572	125999	4.24%	0.092%
25	4.305	4.282	4.325	VV	6390	116192	3.91%	0.084%
26	4.339	4.325	4.378	VV	5891	141674	4.77%	0.103%
27	4.387	4.378	4.401	VV	4177	45692	1.54%	0.033%
28	4.419	4.401	4.458	VV	8343	150154	5.05%	0.109%
29	4.471	4.458	4.482	VV	2971	37200	1.25%	0.027%
30	4.509	4.482	4.527	VV	8163	165450	5.57%	0.120%
31	4.547	4.527	4.562	VV	16753	230944	7.77%	0.168%
32	4.572	4.562	4.588	VV	8800	114655	3.86%	0.083%
33	4.603	4.588	4.615	VV	13306	147534	4.96%	0.107%
34	4.630	4.615	4.644	VV	17810	203472	6.84%	0.148%
35	4.657	4.644	4.667	VV	11314	133846	4.50%	0.097%
36	4.677	4.667	4.694	VV	12364	151547	5.10%	0.110%

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37	4.720	4.694	4.736	VV	14833	229099	7.71%	0.167%
38	4.756	4.736	4.801	VV	23091	467187	15.72%	0.340%
39	4.819	4.801	4.848	VV	35532	453435	15.25%	0.330%
40	4.869	4.848	4.883	VV	10953	173807	5.85%	0.126%
41	4.905	4.883	4.927	VV	12090	228426	7.68%	0.166%
42	4.972	4.927	5.016	VV	15488	428268	14.41%	0.311%
43	5.040	5.016	5.050	VV	13557	187608	6.31%	0.136%
44	5.065	5.050	5.076	VV	21377	251273	8.45%	0.183%
45	5.084	5.076	5.127	VV	16960	388783	13.08%	0.283%
46	5.143	5.127	5.163	VV	10860	192027	6.46%	0.140%
47	5.184	5.163	5.230	VV	22693	611880	20.58%	0.445%
48	5.241	5.230	5.256	VV	18702	237423	7.99%	0.173%
49	5.273	5.256	5.288	VV	29772	366359	12.32%	0.266%
50	5.303	5.288	5.349	VV	21678	569224	19.15%	0.414%
51	5.363	5.349	5.375	VV	14197	187081	6.29%	0.136%
52	5.405	5.375	5.428	VV	46811	720648	24.24%	0.524%
53	5.449	5.428	5.487	VV	18145	513399	17.27%	0.373%
54	5.506	5.487	5.541	VV	17249	458216	15.41%	0.333%
55	5.563	5.541	5.588	VV	65568	878469	29.55%	0.639%
56	5.614	5.588	5.627	VV	16945	355070	11.94%	0.258%
57	5.640	5.627	5.653	VV	16471	227935	7.67%	0.166%
58	5.680	5.653	5.713	VV	40051	813672	27.37%	0.592%
59	5.731	5.713	5.760	VV	19266	439331	14.78%	0.319%
60	5.790	5.760	5.815	VV	26361	632411	21.27%	0.460%
61	5.838	5.815	5.857	VV	26705	442758	14.89%	0.322%
62	5.890	5.857	5.928	VV	35244	992877	33.40%	0.722%
63	5.937	5.928	5.959	VV	19774	351515	11.82%	0.256%
64	5.978	5.959	5.993	VV	22566	389376	13.10%	0.283%
65	6.032	5.993	6.049	VV	33668	775247	26.08%	0.564%
66	6.067	6.049	6.088	VV	27423	525025	17.66%	0.382%
67	6.111	6.088	6.138	VV	29536	730976	24.59%	0.532%
68	6.171	6.138	6.186	VV	36167	766681	25.79%	0.557%
69	6.200	6.186	6.224	VV	32115	667210	22.44%	0.485%
70	6.243	6.224	6.263	VV	45408	767062	25.80%	0.558%
71	6.289	6.263	6.305	VV	35285	742457	24.97%	0.540%
72	6.318	6.305	6.365	VV	35122	942816	31.71%	0.686%
73	6.384	6.365	6.438	VV	30896	1078264	36.27%	0.784%
74	6.455	6.438	6.478	VV	29365	606966	20.42%	0.441%
75	6.514	6.478	6.538	VV	41181	1201998	40.43%	0.874%
76	6.551	6.538	6.574	VV	54906	823652	27.71%	0.599%
77	6.586	6.574	6.590	VV	22886	206612	6.95%	0.150%
78	6.599	6.590	6.608	VV	23408	248460	8.36%	0.181%
79	6.628	6.608	6.656	VV	34413	848391	28.54%	0.617%
80	6.684	6.656	6.712	VV	63542	1371410	46.13%	0.997%
81	6.722	6.712	6.730	VV	29634	309821	10.42%	0.225%
82	6.749	6.730	6.777	VV	39558	905965	30.48%	0.659%
83	6.820	6.777	6.840	VV	45522	1215529	40.89%	0.884%
84	6.858	6.840	6.870	VV	41735	674417	22.69%	0.490%
85	6.884	6.870	6.900	VV	45886	703382	23.66%	0.511%
86	6.920	6.900	6.947	VV	47773	1033526	34.77%	0.752%
87	6.975	6.947	6.991	VV	37976	832512	28.00%	0.605%
88	7.007	6.991	7.037	VV	34506	866646	29.15%	0.630%
89	7.064	7.037	7.102	VV	156995	2673570	89.93%	1.944%

90	7.118	7.102	7.137	VV	46321	786038	26.44%	0.572%
91	7.163	7.137	7.181	VV	63287	1136669	38.24%	0.827%
92	7.192	7.181	7.221	VV	38534	857420	28.84%	0.623%
93	7.248	7.221	7.282	VV	46864	1376548	46.30%	1.001%
94	7.295	7.282	7.311	VV	34516	568089	19.11%	0.413%
95	7.335	7.311	7.361	VV	36802	972706	32.72%	0.707%
96	7.376	7.361	7.385	VV	35046	469186	15.78%	0.341%
97	7.418	7.385	7.430	VV	38475	948954	31.92%	0.690%
98	7.457	7.430	7.490	VV	48245	1434509	48.25%	1.043%
99	7.501	7.490	7.524	VV	31377	597732	20.11%	0.435%
100	7.572	7.524	7.603	VV	55100	1856019	62.43%	1.350%
101	7.622	7.603	7.641	VV	61192	1057487	35.57%	0.769%
102	7.662	7.641	7.686	VV	39145	916518	30.83%	0.666%
103	7.712	7.686	7.733	VV	57423	1187835	39.96%	0.864%
104	7.760	7.733	7.778	VV	39222	938384	31.57%	0.682%
105	7.855	7.778	7.871	VV	46341	2092123	70.38%	1.521%
106	7.891	7.871	7.931	VV	65909	1578907	53.11%	1.148%
107	7.977	7.931	8.004	VV	158330	2909357	97.87%	2.116%
108	8.029	8.004	8.049	VV	52551	1190885	40.06%	0.866%
109	8.065	8.049	8.088	VV	46250	905912	30.47%	0.659%
110	8.117	8.088	8.133	VV	38076	1006875	33.87%	0.732%
111	8.153	8.133	8.186	VV	40341	1158914	38.98%	0.843%
112	8.200	8.186	8.219	VV	35774	677535	22.79%	0.493%
113	8.236	8.219	8.262	VV	35054	847145	28.50%	0.616%
114	8.312	8.262	8.354	VV	131884	2972808	100.00%	2.162%
115	8.365	8.354	8.381	VV	34554	540308	18.17%	0.393%
116	8.403	8.381	8.425	VV	44461	1007512	33.89%	0.733%
117	8.436	8.425	8.467	VV	37746	853467	28.71%	0.621%
118	8.509	8.467	8.521	VV	46932	1180920	39.72%	0.859%
119	8.540	8.521	8.564	VV	53775	1095221	36.84%	0.796%
120	8.576	8.564	8.584	VV	30334	345195	11.61%	0.251%
121	8.607	8.584	8.630	VV	90779	1463351	49.22%	1.064%
122	8.690	8.630	8.716	VV	114692	2867050	96.44%	2.085%
123	8.729	8.716	8.749	VV	32174	581425	19.56%	0.423%
124	8.769	8.749	8.791	VV	39210	813846	27.38%	0.592%
125	8.834	8.791	8.854	VV	39085	1186630	39.92%	0.863%
126	8.870	8.854	8.881	VV	29309	450315	15.15%	0.327%
127	8.908	8.881	8.971	VV	34284	1612909	54.26%	1.173%
128	9.002	8.971	9.026	VV	27085	856655	28.82%	0.623%
129	9.057	9.026	9.085	VV	32276	906400	30.49%	0.659%
130	9.102	9.085	9.145	VV	23926	769913	25.90%	0.560%
131	9.180	9.145	9.198	VV	24718	677637	22.79%	0.493%
132	9.210	9.198	9.243	VV	23727	606382	20.40%	0.441%
133	9.277	9.243	9.314	VV	29380	997684	33.56%	0.725%
134	9.357	9.314	9.391	VV	36594	1251957	42.11%	0.910%
135	9.426	9.391	9.481	VV	31611	1217095	40.94%	0.885%
136	9.508	9.481	9.553	VV	28712	889656	29.93%	0.647%
137	9.563	9.553	9.611	VV	16654	561026	18.87%	0.408%
138	9.629	9.611	9.643	VV	15970	298952	10.06%	0.217%
139	9.662	9.643	9.680	VV	17469	354659	11.93%	0.258%
140	9.709	9.680	9.736	VV	23420	655146	22.04%	0.476%
141	9.751	9.736	9.772	VV	19721	372706	12.54%	0.271%

142	9.809	9.772	9.822	VV	18141	495263	16.66%	0.360%
143	9.832	9.822	9.841	VV	17488	195167	6.57%	0.142%
144	9.854	9.841	9.901	VV	18303	568537	19.12%	0.413%
145	9.920	9.901	9.943	VV	14857	358716	12.07%	0.261%
146	9.979	9.943	10.009	VV	15914	596499	20.07%	0.434%
147	10.027	10.009	10.083	VV	15450	625005	21.02%	0.454%
148	10.138	10.083	10.187	VV	56855	1444712	48.60%	1.051%
149	10.200	10.187	10.251	VV	15394	551766	18.56%	0.401%
150	10.285	10.251	10.310	VV	17040	489302	16.46%	0.356%
151	10.328	10.310	10.356	VV	12829	340848	11.47%	0.248%
152	10.384	10.356	10.396	VV	13835	308098	10.36%	0.224%
153	10.418	10.396	10.444	VV	16002	401051	13.49%	0.292%
154	10.487	10.444	10.524	VV	16721	695443	23.39%	0.506%
155	10.560	10.524	10.644	VV	73828	1808670	60.84%	1.315%
156	10.682	10.644	10.710	VV	13009	482607	16.23%	0.351%
157	10.722	10.710	10.735	VV	12678	185872	6.25%	0.135%
158	10.759	10.735	10.793	VV	13345	441952	14.87%	0.321%
159	10.826	10.793	10.844	VV	13285	388088	13.05%	0.282%
160	10.880	10.844	10.923	VV	16558	627722	21.12%	0.456%
161	10.967	10.923	10.982	VV	12848	414413	13.94%	0.301%
162	11.020	10.982	11.071	VV	12430	631730	21.25%	0.459%
163	11.081	11.071	11.103	VV	11789	221099	7.44%	0.161%
164	11.186	11.103	11.228	VV	13907	905391	30.46%	0.658%
165	11.280	11.228	11.328	VV	42955	1101395	37.05%	0.801%
166	11.346	11.328	11.367	VV	11272	250460	8.43%	0.182%
167	11.386	11.367	11.408	VV	10912	255382	8.59%	0.186%
168	11.461	11.408	11.481	VV	13486	515484	17.34%	0.375%
169	11.494	11.481	11.528	VV	13089	326616	10.99%	0.238%
170	11.557	11.528	11.610	VV	12115	540402	18.18%	0.393%
171	11.633	11.610	11.658	VV	11177	302507	10.18%	0.220%
172	11.680	11.658	11.722	VV	11771	433931	14.60%	0.316%
173	11.742	11.722	11.780	VV	11794	383583	12.90%	0.279%
174	11.800	11.780	11.810	VV	11675	204689	6.89%	0.149%
175	11.837	11.810	11.907	VV	20270	766763	25.79%	0.558%
176	11.980	11.907	12.030	VH	12218	797958	26.84%	0.580%
177	12.070	12.030	12.094	HH	11118	398918	13.42%	0.290%
178	12.130	12.094	12.196	HH	10921	638870	21.49%	0.465%
179	12.217	12.196	12.233	HH	10743	221481	7.45%	0.161%
180	12.245	12.233	12.259	HH	10183	156488	5.26%	0.114%
181	12.271	12.259	12.317	HH	10333	344689	11.59%	0.251%
182	12.357	12.317	12.391	HH	10449	445351	14.98%	0.324%
183	12.419	12.391	12.446	HH	12399	364555	12.26%	0.265%
184	12.454	12.446	12.474	HH	10264	168873	5.68%	0.123%
185	12.496	12.474	12.561	HH	12836	542563	18.25%	0.395%
186	12.640	12.624	12.672	HH	10986	284279	9.56%	0.207%
187	12.821	12.799	12.837	HH	9529	205913	6.93%	0.150%
188	12.857	12.837	12.901	HH	9413	347492	11.69%	0.253%
189	12.938	12.901	12.969	HH	51168	917612	30.87%	0.667%
190	12.992	12.969	13.022	HH	14345	376228	12.66%	0.274%
191	13.037	13.022	13.091	HH	9617	378492	12.73%	0.275%
192	13.111	13.091	13.188	HH	9766	517818	17.42%	0.377%
193	13.220	13.188	13.245	HH	8926	295072	9.93%	0.215%
194	13.266	13.245	13.301	HH	8992	288760	9.71%	0.210%

195	13.330	13.301	13.364	HH	11095	364716	12.27%	0.265%
196	13.379	13.364	13.403	HH	9361	206429	6.94%	0.150%
197	13.418	13.403	13.449	HH	9091	239217	8.05%	0.174%
198	13.479	13.449	13.493	HH	8452	221174	7.44%	0.161%
199	13.540	13.493	13.570	HH	9352	403027	13.56%	0.293%
200	13.602	13.570	13.661	HH	9920	474214	15.95%	0.345%
201	13.746	13.721	13.759	HH	8392	184355	6.20%	0.134%
202	13.769	13.759	13.811	HH	8369	256322	8.62%	0.186%
203	13.833	13.811	13.878	HH	8444	322639	10.85%	0.235%
204	13.925	13.878	13.968	HH	11001	487162	16.39%	0.354%
205	13.991	13.968	14.030	HH	8929	309424	10.41%	0.225%
206	14.632	14.601	14.658	HH	7461	248479	8.36%	0.181%
207	14.852	14.824	14.864	HH	7447	174724	5.88%	0.127%
208	14.996	14.970	15.014	HH	6982	180626	6.08%	0.131%
209	15.220	15.181	15.266	HH	7539	353622	11.90%	0.257%
210	15.485	15.464	15.504	HH	6682	153390	5.16%	0.112%
211	15.529	15.504	15.544	HH	6898	163474	5.50%	0.119%
212	15.565	15.544	15.590	HH	7100	187467	6.31%	0.136%
213	15.621	15.590	15.674	HH	8594	374562	12.60%	0.272%
214	15.698	15.674	15.728	HH	7002	215371	7.24%	0.157%
215	15.735	15.728	15.745	HH	6606	65781	2.21%	0.048%
216	15.816	15.745	15.832	HH	7770	368005	12.38%	0.268%
217	15.845	15.832	15.887	HH	7559	235280	7.91%	0.171%
218	15.904	15.887	15.931	HH	6578	170115	5.72%	0.124%
219	16.004	15.931	16.030	HH	7969	422229	14.20%	0.307%
220	16.050	16.030	16.080	HH	7300	211458	7.11%	0.154%
221	16.125	16.080	16.153	HH	8208	339236	11.41%	0.247%
222	16.171	16.153	16.221	HH	7803	291599	9.81%	0.212%
223	16.250	16.221	16.272	HH	7521	219391	7.38%	0.160%
224	16.292	16.272	16.358	HH	8007	370395	12.46%	0.269%
225	16.511	16.358	16.578	HH	8318	986689	33.19%	0.717%
226	16.612	16.578	16.691	HH	7996	510701	17.18%	0.371%
227	16.771	16.691	16.825	HH	9585	644945	21.69%	0.469%
228	16.857	16.825	16.904	HH	7917	366300	12.32%	0.266%
229	16.990	16.904	17.035	HH	10388	656806	22.09%	0.478%
230	17.070	17.035	17.124	HH	8251	425196	14.30%	0.309%
231	17.161	17.124	17.184	HH	8878	294439	9.90%	0.214%
232	17.211	17.184	17.257	HH	9385	362409	12.19%	0.264%
233	17.272	17.257	17.288	HH	7902	144377	4.86%	0.105%
234	17.316	17.288	17.371	HH	9422	422526	14.21%	0.307%
235	17.401	17.371	17.432	HH	8103	288122	9.69%	0.210%
236	17.442	17.432	17.460	HH	7905	127427	4.29%	0.093%
237	17.485	17.460	17.514	HH	8335	259334	8.72%	0.189%
238	17.537	17.514	17.598	HH	8695	416690	14.02%	0.303%
239	17.643	17.598	17.669	HH	10321	378504	12.73%	0.275%
240	17.686	17.669	17.696	HH	8058	131208	4.41%	0.095%
241	17.882	17.852	17.899	HH	8174	223721	7.53%	0.163%
242	17.937	17.899	17.960	HH	8908	308463	10.38%	0.224%
243	17.980	17.960	17.997	HH	8931	186168	6.26%	0.135%
244	18.067	18.048	18.101	HH	10175	281980	9.49%	0.205%
245	18.215	18.208	18.236	HH	8222	135843	4.57%	0.099%
246	18.263	18.236	18.274	HH	8062	181405	6.10%	0.132%

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247	18.477	18.408	18.534	HH	10824	652958	21.96%	0.475%
248	18.567	18.534	18.591	HH	9221	287358	9.67%	0.209%
249	18.665	18.646	18.688	HH	8423	204814	6.89%	0.149%
250	18.787	18.781	18.808	HH	8574	135049	4.54%	0.098%
251	19.371	19.341	19.392	HH	9310	273489	9.20%	0.199%
252	19.487	19.464	19.500	HH	9597	202094	6.80%	0.147%
253	19.995	19.970	20.014	HH	12792	325573	10.95%	0.237%
254	20.441	20.409	20.451	HH	13588	343344	11.55%	0.250%
255	20.467	20.451	20.487	HH	13624	288315	9.70%	0.210%
256	20.774	20.764	20.782	HH	12745	130878	4.40%	0.095%
257	21.404	21.391	21.413	HH	12723	161918	5.45%	0.118%
258	21.536	21.521	21.568	HH	11976	338578	11.39%	0.246%
259	21.606	21.568	21.621	HH	12216	380992	12.82%	0.277%

Sum of corrected areas: 137521629

Aliphatic EPH 111424.M Tue Nov 19 13:01:00 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-5DL		SDG No.:	P4839	
Lab Sample ID:	P4839-21DL		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048778.D	10	11/16/24	11/19/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	17.6		3.53	7.85	mg/kg
Aromatic C12-C16	Aromatic C12-C16	113		4.00	11.8	mg/kg
Aromatic C16-C21	Aromatic C16-C21	130		11.3	19.6	mg/kg
Aromatic C21-C36	Aromatic C21-C36	68.9		23.5	31.4	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	8.63		40 - 140	173%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	5.85		40 - 140	117%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	4.73		40 - 140	95%	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:	P4839-21DL	Acq On:	19 Nov 2024 10:40
Client Sample ID:	P4839-21DL	Operator:	YP/AJ
Data file:	FD048778.D	Misc:	
Instrument:	FID_D	ALS Vial:	61
Dilution Factor:	10	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	4299992	22.394	200	ug/ml
Aromatic C12-C16	5.806	8.411	27725678	144.06	300	ug/ml
Aromatic C16-C21	8.412	12.674	30795532	165.741	500	ug/ml
Aromatic C21-C36	12.675	18.081	13809196	87.827	800	ug/ml
Aromatic EPH	4.088	18.081	76630398	420.023		ug/ml
2-Bromonaphthalene (SURR)	7.365	7.365	1518863	8.63		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	674076	5.85		ug/ml
ortho-Terphenyl (SURR)	11.249	11.249	910289	4.73		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048778.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:40
Operator : YP/AJ
Sample : P4839-21DL 10X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5DL

Integration File: sample.E
Quant Time: Nov 19 13:01:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.365	1518863	8.627 ug/ml
Spiked Amount 50.000		Recovery =	17.25%
6) S 2-Flurobiphenyl (SURR)	8.217	674076	5.853 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	11.71%
11) S ortho-Terphenyl (SURR)	11.249	910289	4.733 ug/ml
Spiked Amount 50.000		Recovery =	9.47%
Target Compounds			

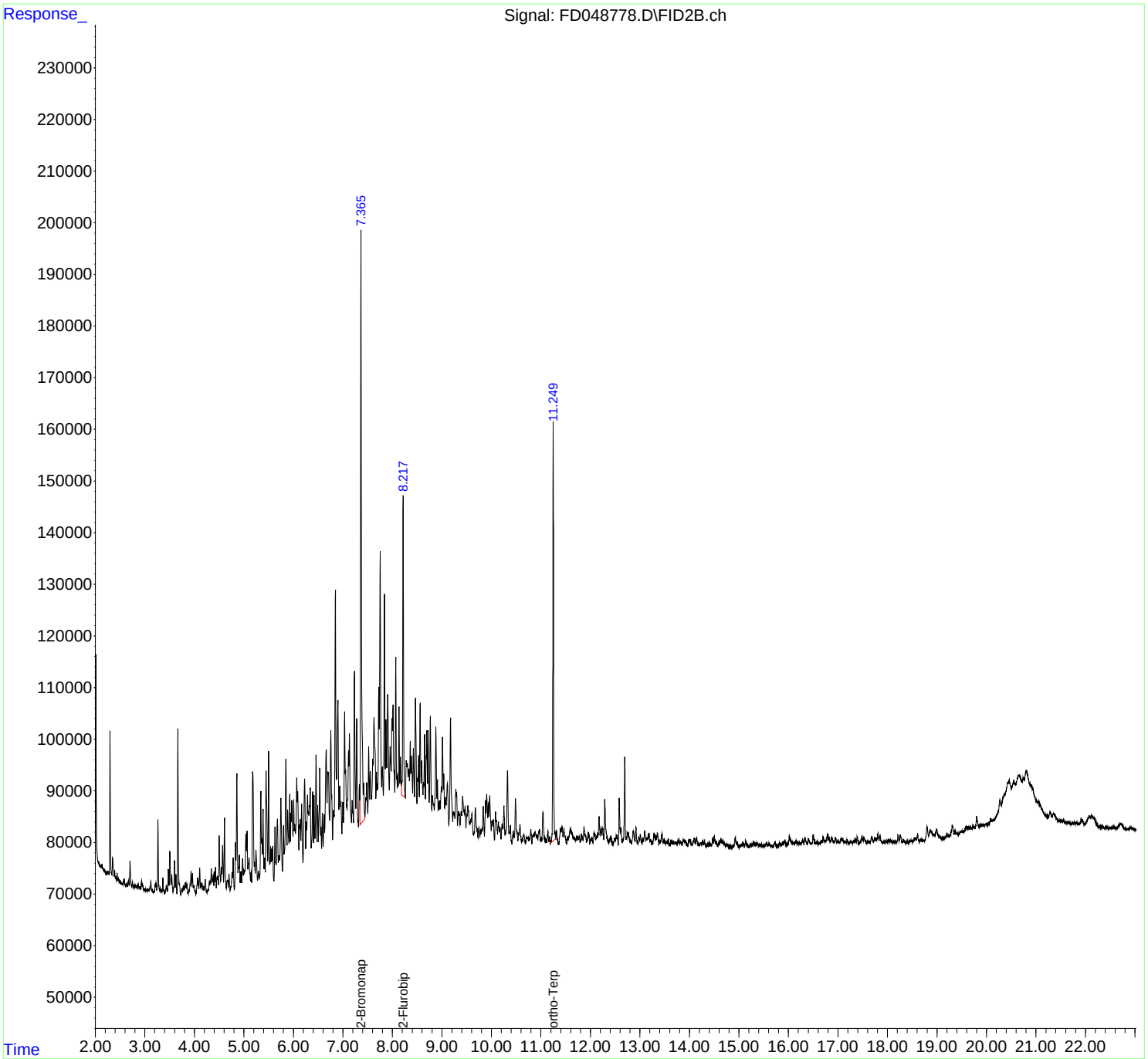
(f)=RT Delta > 1/2 Window (m)=manual int.

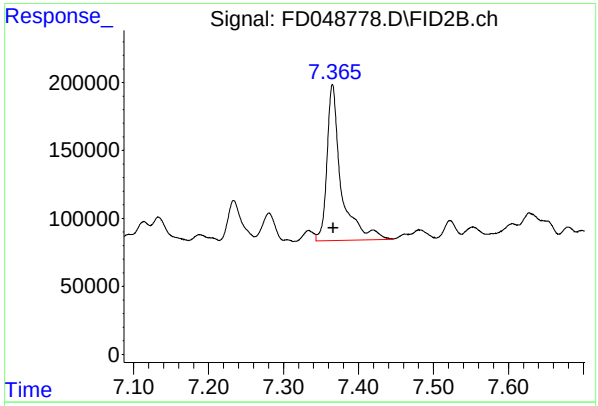
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048778.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:40
Operator : YP/AJ
Sample : P4839-21DL 10X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5DL

Integration File: sample.E
Quant Time: Nov 19 13:01:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

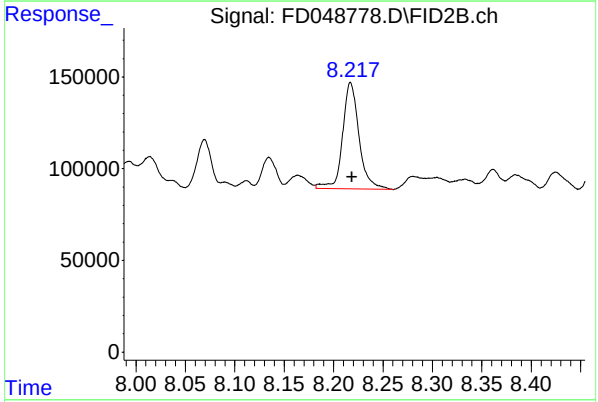




#4 2-Bromonaphthalene (SURR)

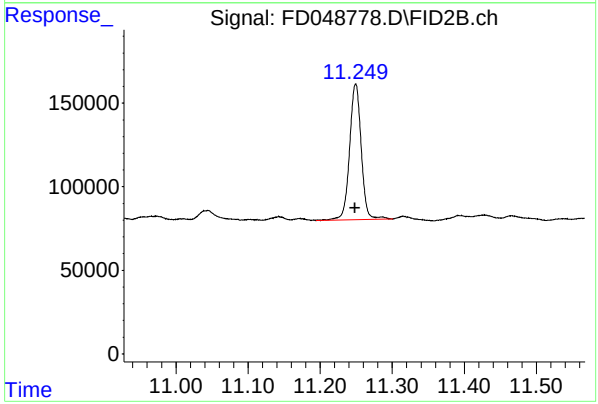
R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 1518863
Conc: 8.63 ug/ml

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-5DL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.217 min
Delta R.T.: 0.000 min
Response: 674076
Conc: 5.85 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 910289
Conc: 4.73 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048778.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:40
Sample : P4839-21DL 10X
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.065	4.042	4.074	PH	1169	1481	0.08%	0.002%
2	4.108	4.091	4.127	PV	3214	21107	1.11%	0.025%
3	4.343	4.326	4.359	PV	2992	27929	1.46%	0.033%
4	4.382	4.359	4.394	VV	1736	16756	0.88%	0.020%
5	4.406	4.394	4.416	PV	2457	16359	0.86%	0.019%
6	4.427	4.416	4.442	VV	3252	20655	1.08%	0.024%
7	4.458	4.442	4.466	PV	1376	9200	0.48%	0.011%
8	4.475	4.466	4.486	VV	1383	11283	0.59%	0.013%
9	4.502	4.486	4.532	PV	9375	100485	5.27%	0.118%
10	4.545	4.532	4.555	VV	3295	29658	1.56%	0.035%
11	4.570	4.555	4.590	VV	7513	84125	4.41%	0.098%
12	4.608	4.590	4.643	VV	12800	128252	6.73%	0.150%
13	4.671	4.643	4.686	PV	740	5328	0.28%	0.006%
14	4.701	4.686	4.722	PV	1872	7064	0.37%	0.008%
15	4.762	4.722	4.771	PV	2302	9289	0.49%	0.011%
16	4.784	4.771	4.809	VV	5070	41993	2.20%	0.049%
17	4.832	4.809	4.841	PV	8040	68663	3.60%	0.080%
18	4.858	4.841	4.881	VV	21439	254209	13.33%	0.298%
19	4.891	4.881	4.895	VV	3290	25321	1.33%	0.030%
20	4.909	4.895	4.924	VV	5664	60185	3.16%	0.070%
21	4.940	4.924	4.955	VV	2474	26418	1.39%	0.031%
22	4.974	4.955	4.988	VV	4919	58538	3.07%	0.069%
23	4.997	4.988	5.007	VV	3019	27974	1.47%	0.033%
24	5.015	5.007	5.020	VV	2718	19448	1.02%	0.023%
25	5.040	5.020	5.054	VV	9672	132017	6.92%	0.155%
26	5.065	5.054	5.080	VV	10319	109218	5.73%	0.128%
27	5.104	5.080	5.135	VV	5053	104624	5.49%	0.122%
28	5.147	5.135	5.158	VV	2297	19890	1.04%	0.023%
29	5.178	5.158	5.209	VV	21669	379432	19.90%	0.444%
30	5.217	5.209	5.230	VV	4264	42312	2.22%	0.050%
31	5.246	5.230	5.277	VV	6545	103228	5.41%	0.121%
32	5.297	5.277	5.309	VV	2455	34950	1.83%	0.041%
33	5.343	5.309	5.358	VV	17911	221284	11.61%	0.259%
34	5.366	5.358	5.376	VV	8781	81820	4.29%	0.096%
35	5.387	5.376	5.406	VV	14582	154931	8.13%	0.181%
36	5.418	5.406	5.432	VV	5043	61838	3.24%	0.072%

37	5.449	5.432	5.481	VV	21853	365692	19.18%	0.428%
38	5.500	5.481	5.527	VV	25635	291392	15.28%	0.341%
39	5.540	5.527	5.550	VV	7332	78371	4.11%	0.092%
40	5.561	5.550	5.572	VV	6575	72112	3.78%	0.084%
41	5.582	5.572	5.609	VV	7375	83779	4.39%	0.098%
42	5.629	5.609	5.653	VV	11101	149109	7.82%	0.175%
43	5.679	5.653	5.696	VV	12617	213062	11.18%	0.249%
44	5.705	5.696	5.715	VV	5532	58461	3.07%	0.068%
45	5.748	5.715	5.780	VV	16621	320606	16.82%	0.375%
46	5.801	5.780	5.815	VV	11358	151625	7.95%	0.177%
47	5.849	5.815	5.871	VV	24184	444496	23.31%	0.520%
48	5.885	5.871	5.911	VV	14359	253051	13.27%	0.296%
49	5.926	5.911	5.939	VV	17472	203908	10.70%	0.239%
50	5.952	5.939	5.959	VV	13708	139083	7.30%	0.163%
51	5.969	5.959	5.992	VV	16257	258523	13.56%	0.303%
52	6.007	5.992	6.020	VV	16391	210838	11.06%	0.247%
53	6.028	6.020	6.043	VV	11540	148435	7.79%	0.174%
54	6.068	6.043	6.080	VV	20565	333011	17.47%	0.390%
55	6.088	6.080	6.111	VV	17973	253178	13.28%	0.296%
56	6.125	6.111	6.129	VV	11523	107253	5.63%	0.126%
57	6.139	6.129	6.151	VV	12604	143078	7.50%	0.167%
58	6.167	6.151	6.194	VV	15469	260739	13.68%	0.305%
59	6.227	6.194	6.250	VV	20369	421670	22.12%	0.494%
60	6.264	6.250	6.272	VV	12089	135592	7.11%	0.159%
61	6.286	6.272	6.313	VV	17256	348516	18.28%	0.408%
62	6.341	6.313	6.359	VV	18742	394732	20.70%	0.462%
63	6.390	6.359	6.405	VV	17908	317291	16.64%	0.371%
64	6.418	6.405	6.436	VV	17184	225172	11.81%	0.264%
65	6.459	6.436	6.477	VV	25039	371568	19.49%	0.435%
66	6.492	6.477	6.505	VV	15247	196264	10.29%	0.230%
67	6.534	6.505	6.550	VV	22515	395058	20.72%	0.462%
68	6.558	6.550	6.570	VV	11008	115511	6.06%	0.135%
69	6.586	6.570	6.603	VV	13609	203370	10.67%	0.238%
70	6.621	6.603	6.634	VV	13483	201665	10.58%	0.236%
71	6.663	6.634	6.680	VV	25962	539084	28.28%	0.631%
72	6.698	6.680	6.703	VV	21529	276140	14.48%	0.323%
73	6.708	6.703	6.729	VV	21698	279582	14.66%	0.327%
74	6.757	6.729	6.793	VV	29693	696920	36.55%	0.816%
75	6.808	6.793	6.820	VV	14298	206467	10.83%	0.242%
76	6.849	6.820	6.867	VV	56950	854773	44.83%	1.000%
77	6.872	6.867	6.876	VV	21093	114480	6.00%	0.134%
78	6.901	6.876	6.920	VV	35737	693935	36.40%	0.812%
79	6.936	6.920	6.954	VV	18984	342976	17.99%	0.401%
80	6.961	6.954	6.980	VV	15968	214693	11.26%	0.251%
81	6.999	6.980	7.013	VV	15927	259123	13.59%	0.303%
82	7.035	7.013	7.084	VV	33457	877934	46.05%	1.028%
83	7.114	7.084	7.122	VV	25808	451370	23.67%	0.528%
84	7.133	7.122	7.174	VV	29079	585488	30.71%	0.685%
85	7.188	7.174	7.214	VV	16198	345277	18.11%	0.404%
86	7.234	7.214	7.262	VV	41287	702556	36.85%	0.822%
87	7.281	7.262	7.301	VV	32101	506026	26.54%	0.592%
88	7.305	7.301	7.314	VV	12407	91970	4.82%	0.108%
89	7.334	7.314	7.344	VV	19324	286234	15.01%	0.335%

90	7.365	7.344	7.411	VV	126788	1906532	100.00%	2.232%
91	7.420	7.411	7.446	VV	19581	351397	18.43%	0.411%
92	7.482	7.446	7.504	VV	19619	563347	29.55%	0.659%
93	7.522	7.504	7.538	VV	26592	409980	21.50%	0.480%
94	7.553	7.538	7.572	VV	21834	394351	20.68%	0.462%
95	7.606	7.572	7.613	VV	24247	487652	25.58%	0.571%
96	7.628	7.613	7.667	VV	32155	859477	45.08%	1.006%
97	7.680	7.667	7.691	VV	21706	274400	14.39%	0.321%
98	7.698	7.691	7.706	VV	19306	168346	8.83%	0.197%
99	7.725	7.706	7.735	VV	38023	510841	26.79%	0.598%
100	7.754	7.735	7.782	VV	64438	1094948	57.43%	1.282%
101	7.797	7.782	7.818	VV	22720	435695	22.85%	0.510%
102	7.840	7.818	7.857	VV	55989	798035	41.86%	0.934%
103	7.871	7.857	7.887	VV	31795	487178	25.55%	0.570%
104	7.906	7.887	7.939	VV	36710	849789	44.57%	0.995%
105	7.955	7.939	7.977	VV	26634	533173	27.97%	0.624%
106	7.993	7.977	8.002	VV	32045	425628	22.32%	0.498%
107	8.014	8.002	8.049	VV	34658	749184	39.30%	0.877%
108	8.069	8.049	8.086	VV	44111	648871	34.03%	0.759%
109	8.090	8.086	8.101	VV	20843	178336	9.35%	0.209%
110	8.112	8.101	8.120	VV	21577	227190	11.92%	0.266%
111	8.135	8.120	8.150	VV	34262	485257	25.45%	0.568%
112	8.164	8.150	8.181	VV	24586	405570	21.27%	0.475%
113	8.217	8.181	8.260	VV	75187	1489094	78.10%	1.743%
114	8.281	8.260	8.294	VV	23901	424051	22.24%	0.496%
115	8.304	8.294	8.319	VV	23267	340787	17.87%	0.399%
116	8.333	8.319	8.346	VV	22410	345514	18.12%	0.404%
117	8.361	8.346	8.374	VV	27718	400389	21.00%	0.469%
118	8.384	8.374	8.409	VV	24846	469262	24.61%	0.549%
119	8.425	8.409	8.448	VV	26308	499515	26.20%	0.585%
120	8.467	8.448	8.497	VV	36083	752742	39.48%	0.881%
121	8.513	8.497	8.518	VV	20549	236709	12.42%	0.277%
122	8.531	8.518	8.543	VV	24857	328581	17.23%	0.385%
123	8.561	8.543	8.579	VV	35083	561236	29.44%	0.657%
124	8.592	8.579	8.618	VV	23859	488810	25.64%	0.572%
125	8.630	8.618	8.636	VV	19565	201450	10.57%	0.236%
126	8.651	8.636	8.668	VV	28864	434348	22.78%	0.508%
127	8.697	8.668	8.711	VV	29749	614720	32.24%	0.720%
128	8.724	8.711	8.742	VV	29543	431338	22.62%	0.505%
129	8.767	8.742	8.795	VV	32505	694721	36.44%	0.813%
130	8.810	8.795	8.828	VV	17046	312282	16.38%	0.366%
131	8.835	8.828	8.849	VV	15560	187662	9.84%	0.220%
132	8.880	8.849	8.901	VV	30341	661340	34.69%	0.774%
133	8.911	8.901	8.926	VV	20223	261521	13.72%	0.306%
134	8.936	8.926	8.946	VV	15783	181910	9.54%	0.213%
135	8.958	8.946	8.970	VV	16081	225052	11.80%	0.263%
136	8.991	8.970	8.999	VV	18897	295426	15.50%	0.346%
137	9.013	8.999	9.030	VV	28389	435536	22.84%	0.510%
138	9.040	9.030	9.056	VV	21211	291377	15.28%	0.341%
139	9.069	9.056	9.084	VV	16778	271170	14.22%	0.317%
140	9.110	9.084	9.142	VV	19484	561629	29.46%	0.657%
141	9.175	9.142	9.220	VV	32136	877572	46.03%	1.027%

142	9.237	9.220	9.263	VV	13852	348100	18.26%	0.407%
143	9.282	9.263	9.292	VV	18361	275701	14.46%	0.323%
144	9.298	9.292	9.318	VV	17771	238132	12.49%	0.279%
145	9.336	9.318	9.369	VV	14118	396869	20.82%	0.465%
146	9.390	9.369	9.401	VV	13900	257003	13.48%	0.301%
147	9.420	9.401	9.460	VV	17077	519149	27.23%	0.608%
148	9.470	9.460	9.486	VV	15054	217538	11.41%	0.255%
149	9.525	9.486	9.559	VV	15218	581358	30.49%	0.680%
150	9.569	9.559	9.574	VV	12063	110505	5.80%	0.129%
151	9.583	9.574	9.588	VV	12405	101723	5.34%	0.119%
152	9.606	9.588	9.632	VV	13683	320548	16.81%	0.375%
153	9.636	9.632	9.642	VV	9810	55826	2.93%	0.065%
154	9.677	9.642	9.729	VV	14758	587909	30.84%	0.688%
155	9.748	9.729	9.769	VV	10993	240676	12.62%	0.282%
156	9.779	9.769	9.790	VV	10340	127196	6.67%	0.149%
157	9.798	9.790	9.812	VV	10543	137642	7.22%	0.161%
158	9.836	9.812	9.860	VV	15044	348586	18.28%	0.408%
159	9.879	9.860	9.892	VV	16237	252542	13.25%	0.296%
160	9.906	9.892	9.925	VV	17429	305236	16.01%	0.357%
161	9.938	9.925	9.951	VV	15682	224743	11.79%	0.263%
162	9.966	9.951	9.997	VV	16941	385487	20.22%	0.451%
163	10.017	9.997	10.030	VV	12211	230337	12.08%	0.270%
164	10.040	10.030	10.065	VV	12548	225537	11.83%	0.264%
165	10.085	10.065	10.123	VV	14011	403342	21.16%	0.472%
166	10.143	10.123	10.161	VV	12062	250468	13.14%	0.293%
167	10.177	10.161	10.194	VV	11025	200903	10.54%	0.235%
168	10.219	10.194	10.230	VV	11740	230843	12.11%	0.270%
169	10.254	10.230	10.274	VV	15164	318729	16.72%	0.373%
170	10.327	10.274	10.361	VV	21921	688777	36.13%	0.806%
171	10.384	10.361	10.414	VV	11314	310111	16.27%	0.363%
172	10.442	10.414	10.462	VV	10173	267566	14.03%	0.313%
173	10.488	10.462	10.536	VV	16521	508348	26.66%	0.595%
174	10.577	10.536	10.605	VV	11519	408645	21.43%	0.478%
175	10.623	10.605	10.634	VV	8751	145192	7.62%	0.170%
176	10.655	10.634	10.687	VV	9521	283161	14.85%	0.331%
177	10.709	10.687	10.717	VV	9087	158977	8.34%	0.186%
178	10.722	10.717	10.737	VV	9056	104398	5.48%	0.122%
179	10.742	10.737	10.752	VV	8980	79397	4.16%	0.093%
180	10.771	10.752	10.777	VV	9013	129453	6.79%	0.152%
181	10.798	10.777	10.819	VV	10583	236801	12.42%	0.277%
182	10.836	10.819	10.840	VV	9426	111696	5.86%	0.131%
183	10.858	10.840	10.865	VV	9625	141585	7.43%	0.166%
184	10.884	10.865	10.914	VV	10167	280819	14.73%	0.329%
185	10.926	10.914	10.940	VV	9584	144935	7.60%	0.170%
186	10.973	10.940	10.997	VV	10497	326562	17.13%	0.382%
187	11.010	10.997	11.019	VV	8926	116332	6.10%	0.136%
188	11.044	11.019	11.093	VV	13809	457269	23.98%	0.535%
189	11.101	11.093	11.120	VV	8522	133799	7.02%	0.157%
190	11.143	11.120	11.160	VV	10216	214956	11.27%	0.252%
191	11.171	11.160	11.200	VV	9040	205818	10.80%	0.241%
192	11.249	11.200	11.279	VV	89825	1295863	67.97%	1.517%
193	11.286	11.279	11.300	VV	10069	115831	6.08%	0.136%
194	11.315	11.300	11.360	VV	10518	323460	16.97%	0.379%

195	11.392	11.360	11.412	VV	10821	297218	15.59%	0.348%
196	11.428	11.412	11.452	VV	11206	248416	13.03%	0.291%
197	11.466	11.452	11.515	VV	10722	356745	18.71%	0.418%
198	11.536	11.515	11.549	VV	8937	172889	9.07%	0.202%
199	11.591	11.549	11.648	VV	10725	577075	30.27%	0.675%
200	11.652	11.648	11.675	VV	9205	145820	7.65%	0.171%
201	11.679	11.675	11.695	VV	9081	107261	5.63%	0.126%
202	11.723	11.695	11.730	VV	9339	186190	9.77%	0.218%
203	11.735	11.730	11.753	VV	9340	124833	6.55%	0.146%
204	11.777	11.753	11.793	VV	9170	209443	10.99%	0.245%
205	11.823	11.793	11.849	VV	9774	300260	15.75%	0.351%
206	11.871	11.849	11.887	VV	11115	227270	11.92%	0.266%
207	11.893	11.887	11.919	VV	9670	175072	9.18%	0.205%
208	11.935	11.919	11.940	VV	8685	107048	5.61%	0.125%
209	11.960	11.940	11.992	VV	10027	285360	14.97%	0.334%
210	12.011	11.992	12.020	VV	8980	144109	7.56%	0.169%
211	12.027	12.020	12.049	VV	8849	149092	7.82%	0.175%
212	12.071	12.049	12.084	VV	9959	192590	10.10%	0.225%
213	12.091	12.084	12.113	VV	9634	162219	8.51%	0.190%
214	12.129	12.113	12.135	VV	9320	117150	6.14%	0.137%
215	12.153	12.135	12.159	VV	10031	140638	7.38%	0.165%
216	12.177	12.159	12.196	VV	13132	249848	13.10%	0.292%
217	12.214	12.196	12.229	VV	10901	197457	10.36%	0.231%
218	12.246	12.229	12.271	VV	10907	255635	13.41%	0.299%
219	12.290	12.271	12.369	VV	16461	617028	32.36%	0.722%
220	12.393	12.369	12.399	VV	8800	152794	8.01%	0.179%
221	12.414	12.399	12.444	VV	9137	232773	12.21%	0.272%
222	12.467	12.444	12.471	VV	8118	128708	6.75%	0.151%
223	12.524	12.504	12.562	VV	9394	306759	16.09%	0.359%
224	12.583	12.562	12.605	VV	16642	312996	16.42%	0.366%
225	12.616	12.605	12.638	VV	10923	191086	10.02%	0.224%
226	12.654	12.638	12.664	VV	8620	130587	6.85%	0.153%
227	12.693	12.664	12.730	VV	24463	529584	27.78%	0.620%
228	12.744	12.730	12.760	VV	9864	171930	9.02%	0.201%
229	12.766	12.760	12.831	VV	9688	367974	19.30%	0.431%
230	12.865	12.831	12.901	VV	10283	385445	20.22%	0.451%
231	12.920	12.901	12.959	VV	10917	313291	16.43%	0.367%
232	12.977	12.959	12.993	VV	9214	176748	9.27%	0.207%
233	13.009	12.993	13.039	VH	9474	239986	12.59%	0.281%
234	13.058	13.039	13.070	HH	8853	160287	8.41%	0.188%
235	13.134	13.125	13.149	HH	8959	124846	6.55%	0.146%
236	13.178	13.149	13.205	HH	9848	307789	16.14%	0.360%
237	13.217	13.205	13.238	HH	8659	160666	8.43%	0.188%
238	13.246	13.238	13.259	HH	8158	103844	5.45%	0.122%
239	13.289	13.259	13.309	HH	9698	265175	13.91%	0.310%
240	13.325	13.309	13.335	HH	9129	140319	7.36%	0.164%
241	13.351	13.335	13.390	HH	9896	296312	15.54%	0.347%
242	13.400	13.390	13.407	HH	8154	79595	4.17%	0.093%
243	13.487	13.475	13.529	HH	8711	261836	13.73%	0.306%
244	13.547	13.529	13.557	HH	8190	136901	7.18%	0.160%
245	13.577	13.557	13.594	HH	8728	179326	9.41%	0.210%
246	13.599	13.594	13.612	HH	7804	84107	4.41%	0.098%

247	13.626	13.612	13.662	HH	8563	240332	12.61%	0.281%
248	13.679	13.662	13.696	HH	8317	165937	8.70%	0.194%
249	13.714	13.696	13.722	HH	8114	123770	6.49%	0.145%
250	13.731	13.722	13.750	HH	8098	134720	7.07%	0.158%
251	13.788	13.750	13.809	HH	8615	286148	15.01%	0.335%
252	13.819	13.809	13.823	HH	8129	69631	3.65%	0.082%
253	13.843	13.839	13.854	HH	7771	69418	3.64%	0.081%
254	13.880	13.854	13.895	HH	8682	204525	10.73%	0.239%
255	13.909	13.895	13.942	HH	8602	231296	12.13%	0.271%
256	13.951	13.942	13.967	HH	7735	112518	5.90%	0.132%
257	13.995	13.967	14.000	HH	8477	158040	8.29%	0.185%
258	14.016	14.000	14.040	HH	8723	200762	10.53%	0.235%
259	14.048	14.040	14.056	HH	7753	73335	3.85%	0.086%
260	14.177	14.170	14.200	HH	7930	138286	7.25%	0.162%
261	14.228	14.200	14.248	HH	8019	223201	11.71%	0.261%
262	14.265	14.248	14.289	HH	8449	199117	10.44%	0.233%
263	14.301	14.289	14.332	HH	8301	200021	10.49%	0.234%
264	14.355	14.332	14.370	HH	7807	171687	9.01%	0.201%
265	14.396	14.370	14.426	HH	8086	260948	13.69%	0.305%
266	14.432	14.426	14.448	HH	7764	97296	5.10%	0.114%
267	14.467	14.448	14.484	HH	8903	176977	9.28%	0.207%
268	14.501	14.484	14.528	HH	9298	230540	12.09%	0.270%
269	14.541	14.528	14.569	HH	8356	194464	10.20%	0.228%
270	14.613	14.580	14.624	HH	8351	211705	11.10%	0.248%
271	14.641	14.624	14.655	HH	8756	155394	8.15%	0.182%
272	14.669	14.655	14.677	HH	8294	106311	5.58%	0.124%
273	14.679	14.677	14.725	HH	8271	227549	11.94%	0.266%
274	14.747	14.735	14.754	HH	7646	84373	4.43%	0.099%
275	14.792	14.789	14.804	HH	7412	63822	3.35%	0.075%
276	14.809	14.804	14.834	HH	7581	134638	7.06%	0.158%
277	14.839	14.834	14.854	HH	7411	83725	4.39%	0.098%
278	14.863	14.854	14.867	HH	7225	55935	2.93%	0.065%
279	14.879	14.867	14.899	HH	7574	141149	7.40%	0.165%
280	14.964	14.960	14.966	HH	8006	31721	1.66%	0.037%
281	14.971	14.966	15.000	HH	8222	152701	8.01%	0.179%
282	15.015	15.000	15.028	HH	7591	120948	6.34%	0.142%
283	15.044	15.028	15.052	HH	7741	111514	5.85%	0.131%
284	15.137	15.108	15.159	HH	8335	241416	12.66%	0.283%
285	15.240	15.205	15.256	HH	7865	228976	12.01%	0.268%
286	15.274	15.256	15.281	HH	7890	114659	6.01%	0.134%
287	15.326	15.317	15.338	HH	7777	96407	5.06%	0.113%
288	15.363	15.338	15.369	HH	7982	140214	7.35%	0.164%
289	15.377	15.369	15.423	HH	7973	248773	13.05%	0.291%
290	15.490	15.485	15.495	HH	7546	44557	2.34%	0.052%
291	15.559	15.535	15.597	HH	8044	284147	14.90%	0.333%
292	15.665	15.662	15.674	HH	7538	55656	2.92%	0.065%
293	15.679	15.674	15.683	HH	7237	36814	1.93%	0.043%
294	15.777	15.762	15.792	HH	7584	134104	7.03%	0.157%
295	15.819	15.792	15.829	HH	8063	171560	9.00%	0.201%
296	15.833	15.829	15.851	HH	7963	103204	5.41%	0.121%
297	15.887	15.851	15.907	HH	8270	260744	13.68%	0.305%
298	15.931	15.907	15.960	HH	8377	253949	13.32%	0.297%
299	15.981	15.960	15.990	HH	7961	137460	7.21%	0.161%

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300	16.016	15.990	16.037	HH	9572	242436	12.72%	0.284%
301	16.045	16.037	16.069	HH	8708	157494	8.26%	0.184%
302	16.082	16.069	16.089	HH	8182	98046	5.14%	0.115%
303	16.094	16.089	16.099	HH	8053	46908	2.46%	0.055%
304	16.105	16.099	16.125	HH	8085	127389	6.68%	0.149%
305	16.134	16.125	16.139	HH	8119	63081	3.31%	0.074%
306	16.154	16.139	16.180	HH	8491	202115	10.60%	0.237%
307	16.190	16.180	16.211	HH	8185	147837	7.75%	0.173%
308	16.227	16.211	16.253	HH	8034	201170	10.55%	0.235%
309	16.275	16.253	16.282	HH	8345	138076	7.24%	0.162%
310	16.330	16.314	16.377	HH	9096	315688	16.56%	0.370%
311	16.402	16.377	16.415	HH	8733	191863	10.06%	0.225%
312	16.469	16.459	16.479	HH	7987	96996	5.09%	0.114%
313	16.609	16.604	16.620	HH	8142	79261	4.16%	0.093%
314	16.638	16.620	16.653	HH	8096	157765	8.27%	0.185%
315	16.738	16.732	16.749	HH	8399	84794	4.45%	0.099%
316	16.851	16.845	16.854	HH	8397	46545	2.44%	0.054%
317	16.978	16.974	16.982	HH	8168	42439	2.23%	0.050%
318	17.100	17.077	17.114	HH	8826	191085	10.02%	0.224%
319	17.185	17.169	17.225	HH	8613	276473	14.50%	0.324%
320	17.239	17.225	17.244	HH	8211	89673	4.70%	0.105%
321	17.285	17.281	17.297	HH	8194	77302	4.05%	0.090%
322	17.481	17.462	17.505	HH	9159	224787	11.79%	0.263%
323	17.526	17.505	17.546	HH	9065	213284	11.19%	0.250%
324	17.552	17.546	17.575	HH	8535	143567	7.53%	0.168%
325	17.621	17.575	17.630	HH	8425	267877	14.05%	0.314%
326	17.688	17.652	17.718	HH	9209	345894	18.14%	0.405%
327	17.775	17.765	17.783	HH	8913	96771	5.08%	0.113%
328	17.808	17.783	17.832	HH	9813	265799	13.94%	0.311%
329	17.896	17.892	17.903	HH	8220	54152	2.84%	0.063%
330	17.946	17.939	17.968	HH	8426	146240	7.67%	0.171%
331	18.060	18.043	18.072	HH	8654	141578	7.43%	0.166%
332	18.079	18.072	18.125	HH	8514	263935	13.84%	0.309%

Sum of corrected areas: 85435542

Aromatic EPH 111424.M Tue Nov 19 13:47:14 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-5DL2		SDG No.:	P4839	
Lab Sample ID:	P4839-21DL2		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	84.8	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067821.D	20	11/16/24	11/19/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	106		8.94	23.5	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	288		5.65	15.7	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	114		7.06	23.5	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	61.6		18.8	31.4	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	55.7		42.4	47.1	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	1.77		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4839-21DL2	Acq On:	19 Nov 2024 11:54
Client Sample ID:	P4839-21DL2	Operator:	YP/AJ
Data file:	FC067821.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	20	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	11267397	67.961	300	ug/ml
Aliphatic C12-C16	6.449	9.838	31352739	184.012	200	ug/ml
Aliphatic C16-C21	9.839	13.196	12393161	73.064	300	ug/ml
Aliphatic C21-C28	13.197	16.850	6177364	39.276	400	ug/ml
Aliphatic C28-C40	16.851	21.691	4298331	35.491	600	ug/ml
Aliphatic EPH	3.172	21.691	65488992	399.804		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.938	12.938	257075	1.77		ug/ml
Aliphatic C9-C28	3.172	16.850	61190661	364.313	1200	ug/ml

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

Report of Analysis

Client:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-6			SDG No.:	P4839
Lab Sample ID:	P4839-22			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.5
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/18/24 12:55	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.72	J	1	0.42	1.11	mg/kg	FC067804.D
Aliphatic C12-C16	Aliphatic C12-C16	0.90		1	0.27	0.74	mg/kg	FC067804.D
Aliphatic C16-C21	Aliphatic C16-C21	0.33	U	1	0.33	1.11	mg/kg	FC067804.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	U	1	0.89	1.49	mg/kg	FC067804.D
Aliphatic C28-C40	Aliphatic C28-C40	7.11		1	2.01	2.23	mg/kg	FC067804.D
Aromatic C10-C12	Aromatic C10-C12	0.33	U	1	0.33	0.74	mg/kg	FD048763.D
Aromatic C12-C16	Aromatic C12-C16	0.53	J	1	0.38	1.11	mg/kg	FD048763.D
Aromatic C16-C21	Aromatic C16-C21	1.10	J	1	1.07	1.86	mg/kg	FD048763.D
Aromatic C21-C36	Aromatic C21-C36	2.23	U	1	2.23	2.97	mg/kg	FD048763.D
Total AliphaticEPH	Total AliphaticEPH	8.73			3.93	6.68	mg/kg	
Total AromaticEPH	Total AromaticEPH	4.01	U		4.01	6.68	mg/kg	
Total EPH	Total EPH	10.4	J		7.94	13.4	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:	ENTACT			Date Collected:	11/13/24
Project:	North Point			Date Received:	11/13/24
Client Sample ID:	EX-4-TPH-6			SDG No.:	P4839
Lab Sample ID:	P4839-22			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.5
Sample Wt/Vol:	30.07	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067804.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		0.72	J	0.42	1.11	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		0.90		0.27	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		0.33	U	0.33	1.11	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		0.89	U	0.89	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		7.11		2.01	2.23	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		40.9		40 - 140	82%	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:	P4839-22	Acq On:	18 Nov 2024 12:55
Client Sample ID:	EX-4-TPH-6	Operator:	YP/AJ
Data file:	FC067804.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	1609319	9.707	300	ug/ml
Aliphatic C12-C16	6.449	9.838	2064778	12.118	200	ug/ml
Aliphatic C16-C21	9.839	13.196	734222	4.329	300	ug/ml
Aliphatic C21-C28	13.197	16.850	1514045	9.626	400	ug/ml
Aliphatic C28-C40	16.851	21.691	11590547	95.702	600	ug/ml
Aliphatic EPH	3.172	21.691	17512911	131.482		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	5942400	40.94		ug/ml
Aliphatic C9-C28	3.172	16.850	5922364	35.78	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067804.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:55
Operator : YP/AJ
Sample : P4839-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6

Integration File: sample.E
Quant Time: Nov 19 04:54:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.931	5942400	40.937 ug/ml
Spiked Amount 50.000		Recovery = 81.87%	
Target Compounds			

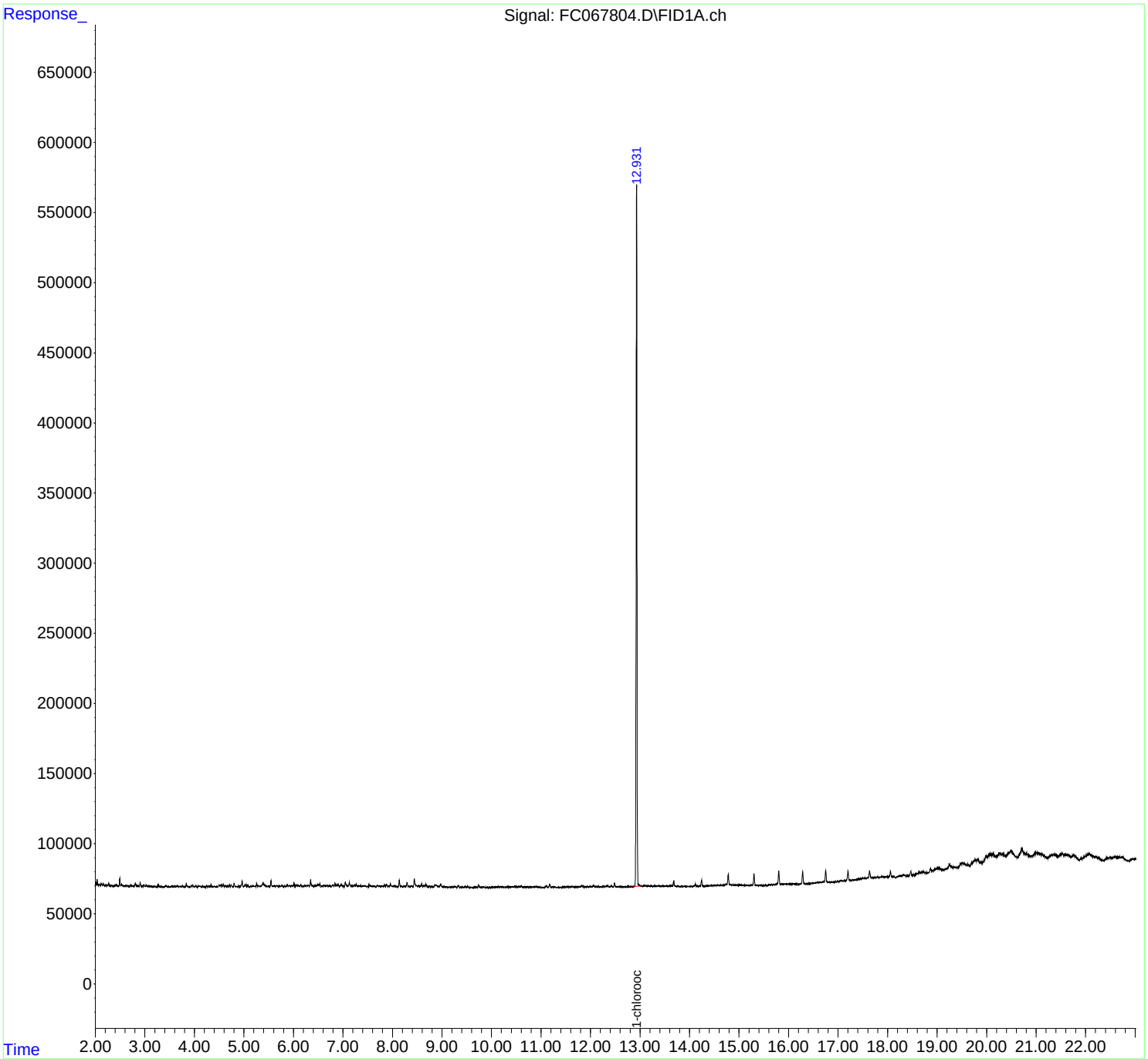
(f)=RT Delta > 1/2 Window (m)=manual int.

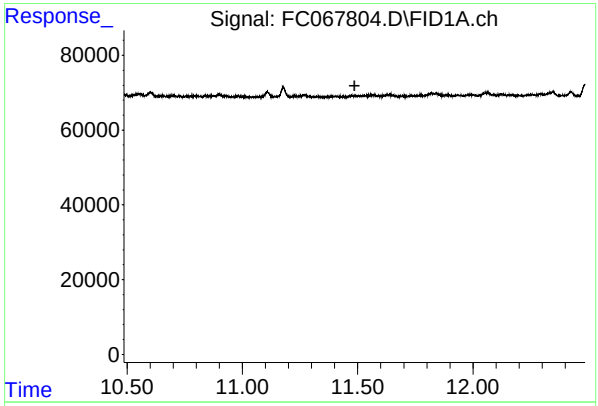
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067804.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:55
Operator : YP/AJ
Sample : P4839-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6

Integration File: sample.E
Quant Time: Nov 19 04:54:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

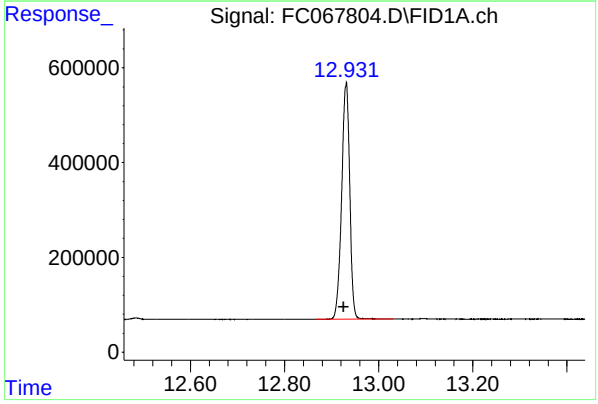




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6



#12 1-chlorooctadecane (SURR)

R.T.: 12.931 min
Delta R.T.: 0.005 min
Response: 5942400
Conc: 40.94 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067804.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 12:55
Sample : P4839-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.273	3.224	3.357	BV	1099	16951	0.28%	0.071%
2	3.369	3.357	3.381	PV	161	1241	0.02%	0.005%
3	3.395	3.381	3.406	VV	385	3094	0.05%	0.013%
4	3.425	3.406	3.501	VV	1192	19720	0.33%	0.083%
5	3.547	3.501	3.566	VV	550	10064	0.17%	0.042%
6	3.597	3.566	3.624	VV	733	11540	0.19%	0.048%
7	3.660	3.624	3.687	VV	811	17869	0.30%	0.075%
8	3.714	3.687	3.726	VV	452	7950	0.13%	0.033%
9	3.733	3.726	3.747	VV	316	3131	0.05%	0.013%
10	3.761	3.747	3.796	VV	739	9577	0.16%	0.040%
11	3.810	3.796	3.820	VV	329	2668	0.04%	0.011%
12	3.836	3.820	3.903	VV	2611	34319	0.57%	0.144%
13	3.937	3.903	3.950	PV	1378	15682	0.26%	0.066%
14	3.965	3.950	3.985	VV	1512	16590	0.28%	0.070%
15	3.999	3.985	4.017	VV	649	9708	0.16%	0.041%
16	4.031	4.017	4.051	VV	1001	12324	0.21%	0.052%
17	4.111	4.051	4.125	VV	1046	25327	0.42%	0.106%
18	4.137	4.125	4.162	VV	574	9819	0.16%	0.041%
19	4.175	4.162	4.216	VV	554	9498	0.16%	0.040%
20	4.248	4.216	4.266	PV	891	12255	0.20%	0.051%
21	4.287	4.266	4.307	VV	660	11250	0.19%	0.047%
22	4.335	4.307	4.360	VV	1474	25153	0.42%	0.105%
23	4.371	4.360	4.387	VV	547	6381	0.11%	0.027%
24	4.402	4.387	4.424	VV	754	11618	0.19%	0.049%
25	4.436	4.424	4.462	VV	541	9728	0.16%	0.041%
26	4.501	4.462	4.517	VV	1607	29130	0.49%	0.122%
27	4.530	4.517	4.544	VV	1515	18237	0.30%	0.076%
28	4.557	4.544	4.572	VV	1735	19330	0.32%	0.081%
29	4.587	4.572	4.604	VV	2412	24837	0.41%	0.104%
30	4.616	4.604	4.628	VV	830	10163	0.17%	0.043%
31	4.643	4.628	4.674	VV	929	20631	0.34%	0.086%
32	4.707	4.674	4.724	VV	1427	26572	0.44%	0.111%
33	4.742	4.724	4.764	VV	1437	23502	0.39%	0.098%
34	4.775	4.764	4.784	VV	616	6631	0.11%	0.028%
35	4.803	4.784	4.835	VV	2794	36307	0.60%	0.152%
36	4.851	4.835	4.868	VV	701	10294	0.17%	0.043%

rteres

37	4.889	4.868	4.905	VV	815	12311	0.21%	0.052%
38	4.965	4.905	4.996	VV	4646	80293	1.34%	0.336%
39	5.021	4.996	5.035	VV	1916	24198	0.40%	0.101%
40	5.048	5.035	5.062	VV	1690	19702	0.33%	0.083%
41	5.073	5.062	5.112	VV	1145	24013	0.40%	0.101%
42	5.136	5.112	5.147	VV	722	12512	0.21%	0.052%
43	5.164	5.147	5.214	VV	1016	31749	0.53%	0.133%
44	5.227	5.214	5.241	VV	901	11335	0.19%	0.048%
45	5.257	5.241	5.273	VV	2499	30260	0.50%	0.127%
46	5.285	5.273	5.324	VV	1317	28120	0.47%	0.118%
47	5.389	5.324	5.474	VV	3470	124179	2.07%	0.520%
48	5.489	5.474	5.523	VV	1004	22021	0.37%	0.092%
49	5.547	5.523	5.583	VV	4753	66425	1.11%	0.278%
50	5.598	5.583	5.611	VV	907	13197	0.22%	0.055%
51	5.618	5.611	5.637	VV	942	11860	0.20%	0.050%
52	5.658	5.637	5.701	VV	1244	32442	0.54%	0.136%
53	5.714	5.701	5.744	VV	1061	20524	0.34%	0.086%
54	5.773	5.744	5.797	VV	1356	30133	0.50%	0.126%
55	5.822	5.797	5.841	VV	1100	18950	0.32%	0.079%
56	5.876	5.841	5.900	VV	1992	43570	0.73%	0.183%
57	5.919	5.900	5.943	VV	1226	25673	0.43%	0.108%
58	5.963	5.943	5.991	VV	1364	28465	0.47%	0.119%
59	6.011	5.991	6.033	VV	2460	38641	0.64%	0.162%
60	6.059	6.033	6.078	VV	1400	31955	0.53%	0.134%
61	6.095	6.078	6.117	VV	1426	27956	0.47%	0.117%
62	6.153	6.117	6.200	VV	1609	50492	0.84%	0.212%
63	6.227	6.200	6.244	VV	1364	27151	0.45%	0.114%
64	6.273	6.244	6.288	VV	1492	30684	0.51%	0.129%
65	6.301	6.288	6.323	VV	1571	25281	0.42%	0.106%
66	6.348	6.323	6.415	VV	5504	100938	1.68%	0.423%
67	6.434	6.415	6.451	VV	1640	25198	0.42%	0.106%
68	6.496	6.451	6.517	VV	2569	59934	1.00%	0.251%
69	6.534	6.517	6.555	VV	2550	38401	0.64%	0.161%
70	6.569	6.555	6.591	VV	1232	19659	0.33%	0.082%
71	6.611	6.591	6.644	VV	1245	31687	0.53%	0.133%
72	6.675	6.644	6.694	VV	1565	34506	0.57%	0.145%
73	6.709	6.694	6.721	VV	934	14238	0.24%	0.060%
74	6.733	6.721	6.760	VV	1256	24047	0.40%	0.101%
75	6.792	6.760	6.821	VV	1598	42633	0.71%	0.179%
76	6.841	6.821	6.855	VV	2334	33447	0.56%	0.140%
77	6.867	6.855	6.881	VV	1883	25419	0.42%	0.107%
78	6.902	6.881	6.929	VV	2033	43998	0.73%	0.184%
79	6.967	6.929	7.021	VV	2069	66574	1.11%	0.279%
80	7.048	7.021	7.087	VV	3838	71687	1.19%	0.300%
81	7.102	7.087	7.111	VV	1274	15218	0.25%	0.064%
82	7.130	7.111	7.170	VV	3631	64864	1.08%	0.272%
83	7.188	7.170	7.202	VV	1146	20189	0.34%	0.085%
84	7.234	7.202	7.248	VV	1722	35414	0.59%	0.148%
85	7.269	7.248	7.292	VV	2043	38543	0.64%	0.162%
86	7.333	7.292	7.346	VV	1210	33528	0.56%	0.141%
87	7.360	7.346	7.381	VV	1442	22853	0.38%	0.096%
88	7.439	7.381	7.474	VV	1254	55169	0.92%	0.231%
89	7.485	7.474	7.507	VV	787	13426	0.22%	0.056%

90	7.530	7.507	7.545	VV	1974	29535	0.49%	0.124%
91	7.555	7.545	7.581	VV	1510	24722	0.41%	0.104%
92	7.606	7.581	7.661	VV	1087	41563	0.69%	0.174%
93	7.696	7.661	7.716	VV	1576	34117	0.57%	0.143%
94	7.744	7.716	7.764	VV	991	23740	0.40%	0.099%
95	7.792	7.764	7.806	VV	840	18412	0.31%	0.077%
96	7.836	7.806	7.856	VV	1853	35093	0.58%	0.147%
97	7.888	7.856	7.912	VV	1799	43395	0.72%	0.182%
98	7.960	7.912	7.994	VV	2773	60140	1.00%	0.252%
99	8.015	7.994	8.032	VV	1215	22463	0.37%	0.094%
100	8.048	8.032	8.109	VV	1210	37138	0.62%	0.156%
101	8.139	8.109	8.207	VV	5314	92906	1.55%	0.389%
102	8.246	8.207	8.270	VV	1035	32083	0.53%	0.134%
103	8.295	8.270	8.319	VV	3663	53918	0.90%	0.226%
104	8.331	8.319	8.358	VV	937	16694	0.28%	0.070%
105	8.376	8.358	8.412	VV	1020	26227	0.44%	0.110%
106	8.443	8.412	8.505	VV	6264	125994	2.10%	0.528%
107	8.525	8.505	8.570	VV	1406	40302	0.67%	0.169%
108	8.592	8.570	8.614	VV	2533	39787	0.66%	0.167%
109	8.629	8.614	8.641	VV	1239	17540	0.29%	0.074%
110	8.676	8.641	8.717	VV	2254	61361	1.02%	0.257%
111	8.744	8.717	8.774	VV	852	22019	0.37%	0.092%
112	8.792	8.774	8.813	VV	819	14335	0.24%	0.060%
113	8.825	8.813	8.836	VV	694	8396	0.14%	0.035%
114	8.859	8.836	8.874	VV	2232	32575	0.54%	0.137%
115	8.887	8.874	8.943	VV	1621	47774	0.80%	0.200%
116	8.976	8.943	9.025	VV	2716	57852	0.96%	0.242%
117	9.047	9.025	9.072	VV	1071	16314	0.27%	0.068%
118	9.095	9.072	9.124	VV	645	11434	0.19%	0.048%
119	9.178	9.124	9.228	VV	442	19249	0.32%	0.081%
120	9.261	9.228	9.303	VV	864	22065	0.37%	0.092%
121	9.325	9.303	9.365	VV	1504	26775	0.45%	0.112%
122	9.380	9.365	9.392	VV	402	5161	0.09%	0.022%
123	9.403	9.392	9.444	VV	394	8348	0.14%	0.035%
124	9.466	9.444	9.498	VV	616	11484	0.19%	0.048%
125	9.518	9.498	9.594	VV	889	17672	0.29%	0.074%
126	9.603	9.594	9.633	VV	192	2483	0.04%	0.010%
127	9.657	9.633	9.718	PV	559	12009	0.20%	0.050%
128	9.738	9.718	9.788	VV	2115	30555	0.51%	0.128%
129	9.814	9.788	9.870	VV	533	15714	0.26%	0.066%
130	9.887	9.870	9.932	VV	351	5962	0.10%	0.025%
131	9.946	9.932	9.964	PV	137	1170	0.02%	0.005%
132	10.015	9.964	10.029	VV	318	6661	0.11%	0.028%
133	10.060	10.029	10.098	VV	436	12758	0.21%	0.053%
134	10.129	10.098	10.148	VV	768	14279	0.24%	0.060%
135	10.168	10.148	10.189	VV	565	9668	0.16%	0.041%
136	10.215	10.189	10.278	VV	432	16149	0.27%	0.068%
137	10.283	10.278	10.308	VV	227	3874	0.06%	0.016%
138	10.338	10.308	10.356	VV	559	10392	0.17%	0.044%
139	10.374	10.356	10.391	VV	483	8548	0.14%	0.036%
140	10.416	10.391	10.438	VV	765	15379	0.26%	0.064%
141	10.475	10.438	10.509	VV	987	26290	0.44%	0.110%

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142	10.553	10.509	10.577	VV	968	26401	0.44%	0.111%
143	10.602	10.577	10.638	VV	1291	25948	0.43%	0.109%
144	10.640	10.638	10.678	VV	370	7305	0.12%	0.031%
145	10.695	10.678	10.717	VV	431	8124	0.14%	0.034%
146	10.730	10.717	10.741	VV	332	3525	0.06%	0.015%
147	10.760	10.741	10.774	VV	300	4780	0.08%	0.020%
148	10.800	10.774	10.831	VV	408	9529	0.16%	0.040%
149	10.843	10.831	10.858	VV	425	5856	0.10%	0.025%
150	10.899	10.858	10.947	VV	727	21262	0.35%	0.089%
151	10.979	10.947	10.997	VV	306	6135	0.10%	0.026%
152	11.007	10.997	11.043	VV	186	2626	0.04%	0.011%
153	11.108	11.043	11.138	VV	1477	23655	0.39%	0.099%
154	11.177	11.138	11.209	VV	2629	36789	0.61%	0.154%
155	11.270	11.209	11.314	VV	646	17985	0.30%	0.075%
156	11.329	11.314	11.364	VV	189	2605	0.04%	0.011%
157	11.411	11.364	11.445	PV	206	6684	0.11%	0.028%
158	11.489	11.445	11.509	VV	408	10366	0.17%	0.043%
159	11.529	11.509	11.547	VV	396	7763	0.13%	0.033%
160	11.567	11.547	11.604	VV	563	12932	0.22%	0.054%
161	11.632	11.604	11.680	VV	643	17214	0.29%	0.072%
162	11.699	11.680	11.717	VV	217	4257	0.07%	0.018%
163	11.738	11.717	11.752	VV	314	5478	0.09%	0.023%
164	11.840	11.752	11.868	VV	1039	40082	0.67%	0.168%
165	11.885	11.868	11.911	VV	489	9871	0.16%	0.041%
166	11.935	11.911	11.959	VV	446	8746	0.15%	0.037%
167	12.000	11.959	12.021	VV	561	15248	0.25%	0.064%
168	12.060	12.021	12.101	VV	1005	30185	0.50%	0.126%
169	12.123	12.101	12.148	VV	617	12850	0.21%	0.054%
170	12.166	12.148	12.215	VV	444	12303	0.20%	0.052%
171	12.255	12.215	12.273	VV	544	12496	0.21%	0.052%
172	12.293	12.273	12.308	VV	605	10510	0.18%	0.044%
173	12.346	12.308	12.395	VV	1247	29883	0.50%	0.125%
174	12.424	12.395	12.458	VV	1116	17463	0.29%	0.073%
175	12.484	12.458	12.531	VV	3132	43008	0.72%	0.180%
176	12.549	12.531	12.567	VV	266	4812	0.08%	0.020%
177	12.601	12.567	12.618	VV	347	7566	0.13%	0.032%
178	12.624	12.618	12.668	VV	240	4248	0.07%	0.018%
179	12.674	12.668	12.684	VV	71	514	0.01%	0.002%
180	12.689	12.684	12.704	VV	92	673	0.01%	0.003%
181	12.748	12.704	12.765	VV	283	7417	0.12%	0.031%
182	12.773	12.765	12.828	VV	277	8005	0.13%	0.034%
183	12.848	12.828	12.862	VV	337	5151	0.09%	0.022%
184	12.931	12.862	13.068	VV	499271	6003320	100.00%	25.158%
185	13.096	13.068	13.141	VV	1343	37310	0.62%	0.156%
186	13.155	13.141	13.191	VV	696	17532	0.29%	0.073%
187	13.215	13.191	13.258	VV	594	19024	0.32%	0.080%
188	13.290	13.258	13.336	VV	690	24762	0.41%	0.104%
189	13.383	13.336	13.408	VV	738	25588	0.43%	0.107%
190	13.488	13.408	13.511	VV	502	25523	0.43%	0.107%
191	13.534	13.511	13.573	VV	583	16934	0.28%	0.071%
192	13.627	13.573	13.651	VV	1068	24802	0.41%	0.104%
193	13.681	13.651	13.744	VV	4353	65493	1.09%	0.274%
194	13.770	13.744	13.851	VV	260	8526	0.14%	0.036%

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195	13.863	13.851	13.877	VV	67	842	0.01%	0.004%
196	13.908	13.877	13.928	VV	251	5214	0.09%	0.022%
197	13.938	13.928	13.965	VV	153	2174	0.04%	0.009%
198	13.978	13.965	14.051	VV	108	3643	0.06%	0.015%
199	14.115	14.051	14.187	PV	1744	32991	0.55%	0.138%
200	14.242	14.187	14.284	VV	4449	65211	1.09%	0.273%
201	14.389	14.284	14.419	VV	475	25440	0.42%	0.107%
202	14.429	14.419	14.436	VV	451	3883	0.06%	0.016%
203	14.457	14.436	14.467	VV	493	7517	0.13%	0.032%
204	14.563	14.467	14.581	VV	751	38839	0.65%	0.163%
205	14.593	14.581	14.608	VV	865	12280	0.20%	0.051%
206	14.638	14.608	14.664	VV	772	23655	0.39%	0.099%
207	14.692	14.664	14.701	VV	823	15192	0.25%	0.064%
208	14.737	14.701	14.753	VV	1512	33184	0.55%	0.139%
209	14.781	14.753	14.931	VV	8600	189595	3.16%	0.795%
210	14.950	14.931	14.995	VV	746	24651	0.41%	0.103%
211	15.019	14.995	15.035	VV	648	13788	0.23%	0.058%
212	15.050	15.035	15.074	VV	621	11525	0.19%	0.048%
213	15.116	15.074	15.165	VV	551	23933	0.40%	0.100%
214	15.174	15.165	15.190	VV	391	5648	0.09%	0.024%
215	15.199	15.190	15.228	VV	442	7714	0.13%	0.032%
216	15.244	15.228	15.258	VV	410	5189	0.09%	0.022%
217	15.301	15.258	15.386	VV	8541	123201	2.05%	0.516%
218	15.397	15.386	15.404	VV	112	1096	0.02%	0.005%
219	15.432	15.404	15.445	PV	186	3711	0.06%	0.016%
220	15.477	15.445	15.554	VV	227	5641	0.09%	0.024%
221	15.624	15.554	15.644	PV	554	11990	0.20%	0.050%
222	15.676	15.644	15.690	VV	402	9148	0.15%	0.038%
223	15.699	15.690	15.720	VV	322	5563	0.09%	0.023%
224	15.762	15.720	15.770	VV	858	16306	0.27%	0.068%
225	15.800	15.770	15.852	VV	10299	155994	2.60%	0.654%
226	15.859	15.852	15.874	VV	647	7864	0.13%	0.033%
227	15.891	15.874	15.901	VV	570	8564	0.14%	0.036%
228	15.918	15.901	15.941	VV	569	12086	0.20%	0.051%
229	15.946	15.941	16.033	VV	545	23407	0.39%	0.098%
230	16.110	16.033	16.138	VV	468	18716	0.31%	0.078%
231	16.170	16.138	16.206	VV	374	8810	0.15%	0.037%
232	16.231	16.206	16.246	PV	129	2286	0.04%	0.010%
233	16.283	16.246	16.354	PV	8925	130660	2.18%	0.548%
234	16.362	16.354	16.379	VV	118	1223	0.02%	0.005%
235	16.403	16.379	16.441	PV	153	2447	0.04%	0.010%
236	16.486	16.441	16.508	VV	228	6051	0.10%	0.025%
237	16.585	16.508	16.611	VV	656	21763	0.36%	0.091%
238	16.635	16.611	16.658	VV	626	13880	0.23%	0.058%
239	16.749	16.658	16.784	VV	8856	153482	2.56%	0.643%
240	16.795	16.784	16.814	VV	378	5376	0.09%	0.023%
241	16.829	16.814	16.836	VV	240	2020	0.03%	0.008%
242	16.853	16.836	16.894	VV	379	7464	0.12%	0.031%
243	16.905	16.894	16.914	VV	119	890	0.01%	0.004%
244	16.989	16.914	17.008	PV	457	9356	0.16%	0.039%
245	17.043	17.008	17.071	VV	745	17471	0.29%	0.073%
246	17.083	17.071	17.108	VV	659	10030	0.17%	0.042%

247	17.129	17.108	17.154	VV	547	12309	0.21%	0.052%
248	17.200	17.154	17.260	VV	7122	126316	2.10%	0.529%
249	17.292	17.260	17.307	VV	550	12440	0.21%	0.052%
250	17.341	17.307	17.358	VV	644	16199	0.27%	0.068%
251	17.406	17.358	17.421	VV	976	29059	0.48%	0.122%
252	17.545	17.421	17.570	VV	1327	98945	1.65%	0.415%
253	17.635	17.570	17.673	VV	6053	146888	2.45%	0.616%
254	17.697	17.673	17.720	VV	1238	32047	0.53%	0.134%
255	17.734	17.720	17.757	VV	1339	25922	0.43%	0.109%
256	17.768	17.757	17.786	VV	1512	22150	0.37%	0.093%
257	17.798	17.786	17.826	VV	1308	26318	0.44%	0.110%
258	17.860	17.826	17.874	VV	1240	31392	0.52%	0.132%
259	17.881	17.874	17.893	VV	1405	13688	0.23%	0.057%
260	17.906	17.893	17.918	VV	1333	17347	0.29%	0.073%
261	17.965	17.918	17.980	VV	1197	39538	0.66%	0.166%
262	17.993	17.980	18.007	VV	1249	16901	0.28%	0.071%
263	18.058	18.007	18.084	VV	4956	91397	1.52%	0.383%
264	18.094	18.084	18.154	VV	1145	27578	0.46%	0.116%
265	18.250	18.154	18.265	PV	993	30376	0.51%	0.127%
266	18.323	18.265	18.371	VV	1488	57509	0.96%	0.241%
267	18.386	18.371	18.422	VV	733	14680	0.24%	0.062%
268	18.468	18.422	18.491	VV	3372	60696	1.01%	0.254%
269	18.500	18.491	18.508	VV	693	5515	0.09%	0.023%
270	18.519	18.508	18.545	VV	930	13181	0.22%	0.055%
271	18.567	18.545	18.576	VV	1243	14807	0.25%	0.062%
272	18.641	18.576	18.667	VV	2518	90733	1.51%	0.380%
273	18.685	18.667	18.693	VV	2082	29615	0.49%	0.124%
274	18.722	18.693	18.767	VV	2296	80377	1.34%	0.337%
275	18.778	18.767	18.792	VV	1896	21243	0.35%	0.089%
276	18.801	18.792	18.812	VV	1229	12703	0.21%	0.053%
277	18.866	18.812	18.888	VV	3808	98922	1.65%	0.415%
278	18.897	18.888	18.911	VV	2672	32792	0.55%	0.137%
279	19.027	18.911	19.094	VV	4272	356245	5.93%	1.493%
280	19.103	19.094	19.113	VV	2779	26961	0.45%	0.113%
281	19.125	19.113	19.151	VV	2587	53240	0.89%	0.223%
282	19.187	19.151	19.200	VV	2967	81916	1.36%	0.343%
283	19.251	19.200	19.266	VV	6054	172392	2.87%	0.722%
284	19.273	19.266	19.318	VV	5021	123238	2.05%	0.516%
285	19.330	19.318	19.349	VV	3911	64942	1.08%	0.272%
286	19.360	19.349	19.378	VV	3462	52914	0.88%	0.222%
287	19.516	19.378	19.531	VV	6184	381630	6.36%	1.599%
288	19.550	19.531	19.581	VV	5499	147413	2.46%	0.618%
289	19.590	19.581	19.605	VV	4595	61638	1.03%	0.258%
290	19.619	19.605	19.654	VV	4962	116264	1.94%	0.487%
291	19.762	19.654	19.771	VV	7045	368815	6.14%	1.546%
292	19.778	19.771	19.786	VV	7060	58382	0.97%	0.245%
293	19.816	19.786	19.868	VV	7544	320286	5.34%	1.342%
294	19.886	19.868	19.925	VV	5675	170630	2.84%	0.715%
295	19.989	19.925	20.014	VV	9941	393864	6.56%	1.651%
296	20.049	20.014	20.058	VV	10262	247126	4.12%	1.036%
297	20.074	20.058	20.095	VV	10285	219139	3.65%	0.918%
298	20.137	20.095	20.200	VV	11143	575298	9.58%	2.411%
299	20.249	20.200	20.265	VV	10562	362078	6.03%	1.517%

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300	20.290	20.265	20.313	VV	10306	275676	4.59%	1.155%
301	20.334	20.313	20.388	VV	9779	392693	6.54%	1.646%
302	20.396	20.388	20.404	VV	8130	80456	1.34%	0.337%
303	20.502	20.404	20.581	VV	11493	1005053	16.74%	4.212%
304	20.591	20.581	20.620	VV	6883	149574	2.49%	0.627%
305	20.710	20.620	20.756	VV	12190	725526	12.09%	3.040%
306	20.763	20.756	20.787	VV	8727	155014	2.58%	0.650%
307	20.810	20.787	20.876	VV	8167	383952	6.40%	1.609%
308	20.889	20.876	20.895	VV	6351	69779	1.16%	0.292%
309	20.902	20.895	20.924	VV	6276	105722	1.76%	0.443%
310	20.978	20.924	20.988	VV	8094	262960	4.38%	1.102%
311	21.007	20.988	21.021	VV	8199	156052	2.60%	0.654%
312	21.027	21.021	21.233	VV	8271	765096	12.74%	3.206%
313	21.348	21.233	21.377	VV	5799	422707	7.04%	1.771%
314	21.394	21.377	21.458	VV	5419	224172	3.73%	0.939%
315	21.499	21.458	21.531	VV	5527	220862	3.68%	0.926%
316	21.538	21.531	21.573	VV	5703	127962	2.13%	0.536%
317	21.582	21.573	21.595	VV	5167	60036	1.00%	0.252%
318	21.604	21.595	21.614	VV	5042	51910	0.86%	0.218%
319	21.630	21.614	21.698	VV	4740	206140	3.43%	0.864%
320	21.708	21.698	21.717	VV	3143	33621	0.56%	0.141%
321	21.754	21.717	21.865	VV	3898	206329	3.44%	0.865%
322	21.898	21.865	21.931	PV	934	16162	0.27%	0.068%
323	22.008	21.931	22.021	PV	1443	43062	0.72%	0.180%
324	22.039	22.021	22.051	VV	1602	22788	0.38%	0.095%
325	22.068	22.051	22.092	VV	1485	24212	0.40%	0.101%

Sum of corrected areas: 23862408

Aliphatic EPH 111424.M Tue Nov 19 05:26:21 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:	11/13/24	
Project:	North Point		Date Received:	11/13/24	
Client Sample ID:	EX-4-TPH-6		SDG No.:	P4839	
Lab Sample ID:	P4839-22		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.5	
Sample Wt/Vol:	30.07	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048763.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.33	U	0.33	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.53	J	0.38	1.11	mg/kg
Aromatic C16-C21	Aromatic C16-C21	1.10	J	1.07	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.23	U	2.23	2.97	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	44.4		40 - 140	89%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	43.6		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	P4839-22	Acq On:	18 Nov 2024 12:55
Client Sample ID:	EX-4-TPH-6	Operator:	YP/AJ
Data file:	FD048763.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	698357	3.637	200	ug/ml
Aromatic C12-C16	5.806	8.411	1372465	7.131	300	ug/ml
Aromatic C16-C21	8.412	12.674	2760224	14.856	500	ug/ml
Aromatic C21-C36	12.675	18.081	3679743	23.403	800	ug/ml
Aromatic EPH	4.088	18.081	8510789	49.027		ug/ml
2-Bromonaphthalene (SURR)	7.366	7.366	7821578	44.43		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	5018954	43.58		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	6691614	34.79		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048763.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:55
Operator : YP/AJ
Sample : P4839-22
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6

Integration File: sample.E
Quant Time: Nov 19 05:55:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.366	7821578	44.426 ug/ml
Spiked Amount 50.000		Recovery =	88.85%
6) S 2-Flurobiphenyl (SURR)	8.216	5018954	43.579 ug/ml
Spiked Amount 50.000	Range 0 - 131	Recovery =	87.16%
11) S ortho-Terphenyl (SURR)	11.252	6691614	34.791 ug/ml
Spiked Amount 50.000		Recovery =	69.58%
Target Compounds			

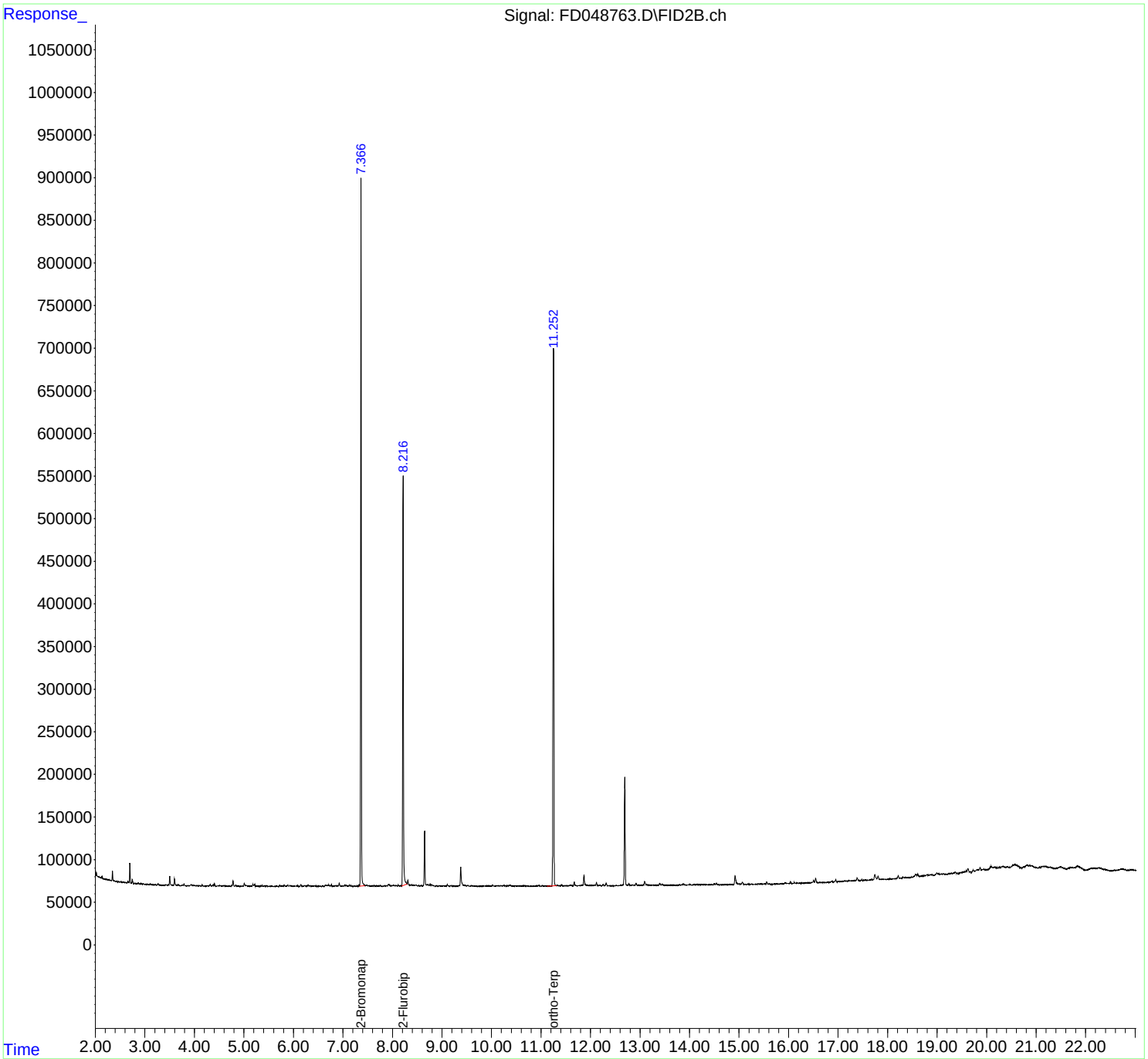
(f)=RT Delta > 1/2 Window (m)=manual int.

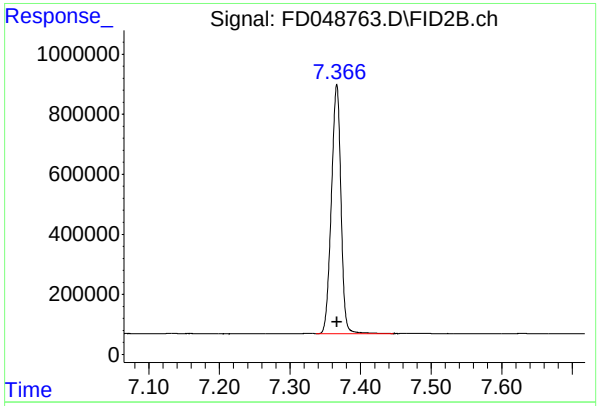
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048763.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:55
Operator : YP/AJ
Sample : P4839-22
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6

Integration File: sample.E
Quant Time: Nov 19 05:55:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

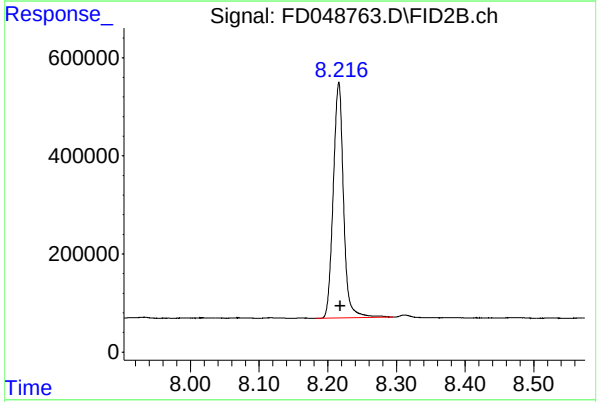




#4 2-Bromonaphthalene (SURR)

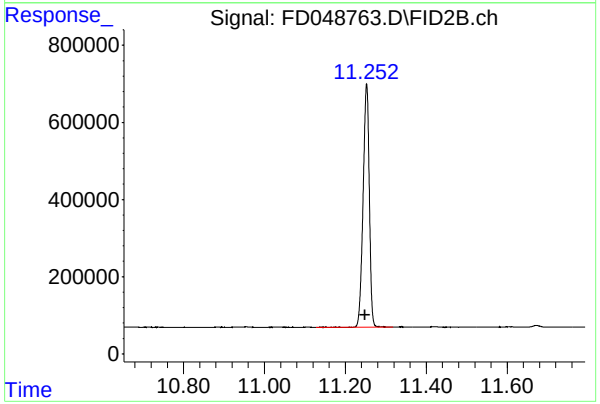
R.T.: 7.366 min
Delta R.T.: 0.000 mi
Response: 7821578
Conc: 44.43 ug/m

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6



#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.003 min
Response: 5018954
Conc: 43.58 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.252 min
Delta R.T.: 0.004 min
Response: 6691614
Conc: 34.79 ug/ml

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048763.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 12:55
Sample : P4839-22
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.107	4.100	4.130	VV	554	5998	0.08%	0.021%
2	4.157	4.130	4.181	PV	2001	21574	0.27%	0.076%
3	4.198	4.181	4.234	PV	447	5227	0.07%	0.019%
4	4.270	4.234	4.284	VV	773	12221	0.16%	0.043%
5	4.320	4.284	4.345	VV	2455	38797	0.49%	0.137%
6	4.353	4.345	4.361	VV	661	4875	0.06%	0.017%
7	4.378	4.361	4.392	VV	2132	21041	0.27%	0.074%
8	4.406	4.392	4.445	VV	3312	34615	0.44%	0.123%
9	4.450	4.445	4.456	VV	195	1232	0.02%	0.004%
10	4.477	4.456	4.494	VV	734	10447	0.13%	0.037%
11	4.519	4.494	4.538	VV	891	15845	0.20%	0.056%
12	4.543	4.538	4.560	VV	535	4854	0.06%	0.017%
13	4.569	4.560	4.575	VV	585	3965	0.05%	0.014%
14	4.610	4.575	4.641	VV	956	22910	0.29%	0.081%
15	4.647	4.641	4.667	VV	379	2994	0.04%	0.011%
16	4.677	4.667	4.684	VV	239	1639	0.02%	0.006%
17	4.702	4.684	4.741	PV	566	9034	0.11%	0.032%
18	4.758	4.741	4.764	VV	1327	12209	0.16%	0.043%
19	4.780	4.764	4.816	VV	6676	80906	1.03%	0.286%
20	4.834	4.816	4.854	VV	1707	21470	0.27%	0.076%
21	4.860	4.854	4.880	VV	917	9729	0.12%	0.034%
22	4.890	4.880	4.926	VV	541	8952	0.11%	0.032%
23	4.941	4.926	4.946	VV	279	2539	0.03%	0.009%
24	4.969	4.946	4.990	VV	744	10935	0.14%	0.039%
25	5.008	4.990	5.029	VV	3858	45763	0.58%	0.162%
26	5.040	5.029	5.080	VV	1304	26994	0.34%	0.096%
27	5.085	5.080	5.098	VV	445	3454	0.04%	0.012%
28	5.104	5.098	5.135	VV	373	5847	0.07%	0.021%
29	5.146	5.135	5.160	VV	545	5365	0.07%	0.019%
30	5.180	5.160	5.202	VV	2556	36394	0.46%	0.129%
31	5.219	5.202	5.236	VV	2700	31947	0.41%	0.113%
32	5.252	5.236	5.267	VV	769	11244	0.14%	0.040%
33	5.275	5.267	5.303	VV	833	11914	0.15%	0.042%
34	5.312	5.303	5.324	VV	396	4573	0.06%	0.016%
35	5.342	5.324	5.357	VV	1156	14030	0.18%	0.050%
36	5.367	5.357	5.384	VV	1245	14141	0.18%	0.050%

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37	5.390	5.384	5.404	VV	455	3800	0.05%	0.013%
38	5.416	5.404	5.433	VV	856	9982	0.13%	0.035%
39	5.460	5.433	5.486	VV	1011	18354	0.23%	0.065%
40	5.492	5.486	5.496	VV	287	1506	0.02%	0.005%
41	5.502	5.496	5.514	VV	393	3160	0.04%	0.011%
42	5.541	5.514	5.556	VV	678	11575	0.15%	0.041%
43	5.562	5.556	5.605	VV	606	9612	0.12%	0.034%
44	5.627	5.605	5.640	PV	525	5872	0.07%	0.021%
45	5.668	5.640	5.690	VV	803	16386	0.21%	0.058%
46	5.696	5.690	5.704	VV	354	1869	0.02%	0.007%
47	5.725	5.704	5.754	VV	1382	25902	0.33%	0.092%
48	5.757	5.754	5.762	VV	865	3541	0.04%	0.013%
49	5.769	5.762	5.788	VV	1042	11124	0.14%	0.039%
50	5.813	5.788	5.832	VV	1655	25855	0.33%	0.092%
51	5.844	5.832	5.850	VV	798	6601	0.08%	0.023%
52	5.853	5.850	5.866	VV	869	7218	0.09%	0.026%
53	5.886	5.866	5.904	VV	1849	24646	0.31%	0.087%
54	5.930	5.904	5.940	VV	1298	18009	0.23%	0.064%
55	5.952	5.940	5.965	VV	1187	14444	0.18%	0.051%
56	5.971	5.965	5.993	VV	884	8913	0.11%	0.032%
57	6.011	5.993	6.025	VV	716	9968	0.13%	0.035%
58	6.029	6.025	6.032	VV	617	2430	0.03%	0.009%
59	6.036	6.032	6.058	VV	634	8845	0.11%	0.031%
60	6.082	6.058	6.114	VV	1059	22008	0.28%	0.078%
61	6.119	6.114	6.121	VV	297	1124	0.01%	0.004%
62	6.152	6.121	6.177	VV	2659	37249	0.47%	0.132%
63	6.184	6.177	6.202	VV	422	4660	0.06%	0.016%
64	6.232	6.202	6.251	VV	1501	24341	0.31%	0.086%
65	6.270	6.251	6.281	VV	1054	11380	0.14%	0.040%
66	6.299	6.281	6.317	VV	2247	29627	0.38%	0.105%
67	6.332	6.317	6.357	VV	1065	15607	0.20%	0.055%
68	6.371	6.357	6.386	VV	1201	12754	0.16%	0.045%
69	6.394	6.386	6.405	VV	655	5832	0.07%	0.021%
70	6.421	6.405	6.443	VV	1125	14863	0.19%	0.053%
71	6.459	6.443	6.482	VV	932	11964	0.15%	0.042%
72	6.492	6.482	6.507	VV	494	5806	0.07%	0.021%
73	6.524	6.507	6.534	VV	648	7864	0.10%	0.028%
74	6.537	6.534	6.561	VV	446	4873	0.06%	0.017%
75	6.590	6.561	6.612	VV	1311	16258	0.21%	0.058%
76	6.645	6.612	6.656	VV	1700	25767	0.33%	0.091%
77	6.667	6.656	6.680	VV	1587	20300	0.26%	0.072%
78	6.691	6.680	6.703	VV	1700	20833	0.26%	0.074%
79	6.713	6.703	6.740	VV	1997	26161	0.33%	0.093%
80	6.767	6.740	6.795	VV	2331	39619	0.50%	0.140%
81	6.808	6.795	6.816	VV	809	7247	0.09%	0.026%
82	6.847	6.816	6.862	VV	1438	24246	0.31%	0.086%
83	6.869	6.862	6.889	VV	995	11918	0.15%	0.042%
84	6.926	6.889	6.967	VV	4365	65226	0.83%	0.231%
85	6.972	6.967	6.979	VV	417	2894	0.04%	0.010%
86	6.992	6.979	6.997	VV	712	6773	0.09%	0.024%
87	7.002	6.997	7.020	VV	821	8560	0.11%	0.030%
88	7.037	7.020	7.051	VV	2229	26172	0.33%	0.093%
89	7.067	7.051	7.088	VV	1282	21967	0.28%	0.078%

90	7.098	7.088	7.115	VV	915	12710	0.16%	0.045%
91	7.134	7.115	7.148	VV	1682	22285	0.28%	0.079%
92	7.159	7.148	7.215	VV	1257	21783	0.28%	0.077%
93	7.233	7.215	7.263	VV	789	14970	0.19%	0.053%
94	7.280	7.263	7.303	VV	971	13607	0.17%	0.048%
95	7.327	7.303	7.340	VV	1809	22943	0.29%	0.081%
96	7.366	7.340	7.445	VV	832950	7873262	100.00%	27.869%
97	7.459	7.445	7.467	VV	1383	15928	0.20%	0.056%
98	7.477	7.467	7.481	VV	1575	12711	0.16%	0.045%
99	7.490	7.481	7.510	VV	1642	22856	0.29%	0.081%
100	7.525	7.510	7.551	VV	1055	20791	0.26%	0.074%
101	7.559	7.551	7.575	VV	843	9668	0.12%	0.034%
102	7.591	7.575	7.597	VV	742	8537	0.11%	0.030%
103	7.607	7.597	7.613	VV	846	6980	0.09%	0.025%
104	7.629	7.613	7.669	VV	1458	29507	0.37%	0.104%
105	7.685	7.669	7.712	VV	974	19326	0.25%	0.068%
106	7.725	7.712	7.738	VV	951	11849	0.15%	0.042%
107	7.755	7.738	7.775	VV	1353	20079	0.26%	0.071%
108	7.799	7.775	7.816	VV	533	10139	0.13%	0.036%
109	7.839	7.816	7.866	VV	1080	21674	0.28%	0.077%
110	7.882	7.866	7.897	VV	1054	15178	0.19%	0.054%
111	7.932	7.897	7.954	VV	2756	56740	0.72%	0.201%
112	7.961	7.954	7.975	VV	939	10138	0.13%	0.036%
113	7.992	7.975	8.002	VV	1354	17047	0.22%	0.060%
114	8.018	8.002	8.055	VV	1553	37772	0.48%	0.134%
115	8.070	8.055	8.098	VV	1541	28656	0.36%	0.101%
116	8.117	8.098	8.144	VV	1693	29789	0.38%	0.105%
117	8.161	8.144	8.185	VV	1115	17838	0.23%	0.063%
118	8.216	8.185	8.295	VV	483246	5129605	65.15%	18.158%
119	8.312	8.295	8.345	VV	7254	117376	1.49%	0.415%
120	8.350	8.345	8.354	VV	1772	8732	0.11%	0.031%
121	8.357	8.354	8.365	VV	1804	11523	0.15%	0.041%
122	8.373	8.365	8.377	VV	1795	12233	0.16%	0.043%
123	8.386	8.377	8.408	VV	1940	30278	0.38%	0.107%
124	8.416	8.408	8.429	VV	1531	18311	0.23%	0.065%
125	8.436	8.429	8.451	VV	1485	17132	0.22%	0.061%
126	8.476	8.451	8.508	VV	1965	45592	0.58%	0.161%
127	8.525	8.508	8.550	VV	1248	22276	0.28%	0.079%
128	8.578	8.550	8.604	VV	1218	29020	0.37%	0.103%
129	8.651	8.604	8.694	VV	65214	702630	8.92%	2.487%
130	8.716	8.694	8.737	VV	2697	53038	0.67%	0.188%
131	8.761	8.737	8.779	VV	3271	51634	0.66%	0.183%
132	8.794	8.779	8.822	VV	2176	39617	0.50%	0.140%
133	8.833	8.822	8.852	VV	1348	15919	0.20%	0.056%
134	8.885	8.852	8.917	VV	1298	23782	0.30%	0.084%
135	8.940	8.917	8.959	VV	760	13723	0.17%	0.049%
136	8.967	8.959	8.993	VV	739	12620	0.16%	0.045%
137	9.005	8.993	9.012	VV	750	7112	0.09%	0.025%
138	9.031	9.012	9.061	VV	1024	20989	0.27%	0.074%
139	9.069	9.061	9.089	VV	576	5321	0.07%	0.019%
140	9.110	9.089	9.155	VV	2167	36102	0.46%	0.128%
141	9.178	9.155	9.195	VV	1114	15078	0.19%	0.053%

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142	9.198	9.195	9.204	VV	426	2268	0.03%	0.008%
143	9.217	9.204	9.222	VV	543	4536	0.06%	0.016%
144	9.248	9.222	9.280	VV	872	15852	0.20%	0.056%
145	9.286	9.280	9.289	VV	318	1394	0.02%	0.005%
146	9.298	9.289	9.307	VV	585	5039	0.06%	0.018%
147	9.313	9.307	9.323	VV	598	4720	0.06%	0.017%
148	9.329	9.323	9.332	VV	570	2514	0.03%	0.009%
149	9.349	9.332	9.362	VV	1501	17999	0.23%	0.064%
150	9.380	9.362	9.436	VV	22756	325140	4.13%	1.151%
151	9.441	9.436	9.452	VV	1541	13990	0.18%	0.050%
152	9.462	9.452	9.492	VV	1397	24316	0.31%	0.086%
153	9.497	9.492	9.505	VV	733	5119	0.07%	0.018%
154	9.522	9.505	9.559	VV	1500	25859	0.33%	0.092%
155	9.594	9.559	9.639	VV	850	27356	0.35%	0.097%
156	9.646	9.639	9.654	VV	449	3335	0.04%	0.012%
157	9.667	9.654	9.674	VV	535	5533	0.07%	0.020%
158	9.675	9.674	9.715	VV	495	6887	0.09%	0.024%
159	9.729	9.715	9.737	PV	281	2376	0.03%	0.008%
160	9.746	9.737	9.760	VV	321	3081	0.04%	0.011%
161	9.765	9.760	9.777	VV	352	1992	0.03%	0.007%
162	9.798	9.777	9.813	VV	420	6526	0.08%	0.023%
163	9.832	9.813	9.859	VV	736	13791	0.18%	0.049%
164	9.862	9.859	9.872	VV	426	3139	0.04%	0.011%
165	9.885	9.872	9.896	VV	567	6189	0.08%	0.022%
166	9.914	9.896	9.927	VV	732	10433	0.13%	0.037%
167	9.947	9.927	9.974	VV	963	17278	0.22%	0.061%
168	9.987	9.974	9.997	VV	675	7374	0.09%	0.026%
169	10.023	9.997	10.047	VV	1804	26425	0.34%	0.094%
170	10.068	10.047	10.085	VV	419	7935	0.10%	0.028%
171	10.119	10.085	10.133	VV	1037	21561	0.27%	0.076%
172	10.140	10.133	10.172	VV	908	15518	0.20%	0.055%
173	10.194	10.172	10.202	VV	829	11440	0.15%	0.040%
174	10.212	10.202	10.217	VV	901	7598	0.10%	0.027%
175	10.220	10.217	10.232	VV	819	5983	0.08%	0.021%
176	10.255	10.232	10.289	VV	1070	25923	0.33%	0.092%
177	10.310	10.289	10.326	VV	734	12437	0.16%	0.044%
178	10.340	10.326	10.357	VV	1039	13962	0.18%	0.049%
179	10.379	10.357	10.402	VV	1689	28443	0.36%	0.101%
180	10.410	10.402	10.415	VV	329	2115	0.03%	0.007%
181	10.427	10.415	10.432	VV	510	3624	0.05%	0.013%
182	10.437	10.432	10.447	VV	524	3715	0.05%	0.013%
183	10.450	10.447	10.455	VV	538	2001	0.03%	0.007%
184	10.475	10.455	10.490	VV	603	9151	0.12%	0.032%
185	10.496	10.490	10.517	VV	579	4725	0.06%	0.017%
186	10.539	10.517	10.557	VV	659	10060	0.13%	0.036%
187	10.569	10.557	10.585	VV	567	8446	0.11%	0.030%
188	10.591	10.585	10.611	VV	556	6216	0.08%	0.022%
189	10.618	10.611	10.632	VV	521	4704	0.06%	0.017%
190	10.653	10.632	10.665	VV	697	11031	0.14%	0.039%
191	10.674	10.665	10.699	VV	983	12745	0.16%	0.045%
192	10.715	10.699	10.726	VV	566	6982	0.09%	0.025%
193	10.739	10.726	10.745	VV	512	4113	0.05%	0.015%
194	10.747	10.745	10.765	VV	428	3032	0.04%	0.011%

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195	10.782	10.774	10.798	VV	188	2139	0.03%	0.008%
196	10.802	10.798	10.812	VV	364	1684	0.02%	0.006%
197	10.821	10.812	10.838	VV	222	2104	0.03%	0.007%
198	10.842	10.838	10.857	VV	192	1258	0.02%	0.004%
199	10.887	10.857	10.906	VV	578	8335	0.11%	0.030%
200	10.928	10.906	10.933	VV	712	6343	0.08%	0.022%
201	10.955	10.933	10.982	VV	1348	19889	0.25%	0.070%
202	11.033	10.982	11.062	VV	891	18265	0.23%	0.065%
203	11.070	11.062	11.085	VV	278	3155	0.04%	0.011%
204	11.109	11.093	11.132	VV	518	5711	0.07%	0.020%
205	11.184	11.132	11.199	PV	322	9342	0.12%	0.033%
206	11.252	11.199	11.319	VV	630885	6731318	85.50%	23.827%
207	11.338	11.319	11.360	VV	1103	21539	0.27%	0.076%
208	11.373	11.360	11.387	VV	801	9818	0.12%	0.035%
209	11.421	11.387	11.446	VV	1393	27051	0.34%	0.096%
210	11.470	11.446	11.484	VV	515	7246	0.09%	0.026%
211	11.506	11.484	11.513	VV	507	6931	0.09%	0.025%
212	11.606	11.513	11.640	VV	1192	49917	0.63%	0.177%
213	11.672	11.640	11.695	VV	4909	65948	0.84%	0.233%
214	11.709	11.695	11.729	VV	800	11720	0.15%	0.041%
215	11.776	11.729	11.790	VV	617	17687	0.22%	0.063%
216	11.832	11.790	11.843	VV	1235	27007	0.34%	0.096%
217	11.868	11.843	11.910	VV	13480	181136	2.30%	0.641%
218	11.919	11.910	11.977	VV	1259	34622	0.44%	0.123%
219	11.985	11.977	12.002	VV	775	9873	0.13%	0.035%
220	12.022	12.002	12.052	VV	867	21830	0.28%	0.077%
221	12.061	12.052	12.074	VV	786	8575	0.11%	0.030%
222	12.090	12.074	12.098	VV	1102	13742	0.17%	0.049%
223	12.121	12.098	12.155	VV	3969	58309	0.74%	0.206%
224	12.163	12.155	12.174	VV	445	4636	0.06%	0.016%
225	12.194	12.174	12.230	VV	1095	18838	0.24%	0.067%
226	12.254	12.230	12.278	VV	1939	24769	0.31%	0.088%
227	12.318	12.278	12.352	VV	3188	47926	0.61%	0.170%
228	12.362	12.352	12.372	VV	303	3079	0.04%	0.011%
229	12.389	12.372	12.411	VV	385	5809	0.07%	0.021%
230	12.423	12.411	12.437	VV	213	2710	0.03%	0.010%
231	12.445	12.437	12.462	VV	117	1911	0.02%	0.007%
232	12.523	12.462	12.564	PV	496	15564	0.20%	0.055%
233	12.576	12.564	12.595	VV	356	4738	0.06%	0.017%
234	12.619	12.595	12.637	VV	871	15251	0.19%	0.054%
235	12.692	12.637	12.727	VV	127431	1484568	18.86%	5.255%
236	12.734	12.727	12.752	VV	945	13016	0.17%	0.046%
237	12.773	12.752	12.812	VV	2703	40467	0.51%	0.143%
238	12.842	12.812	12.893	VV	804	30108	0.38%	0.107%
239	12.918	12.893	12.967	VV	2988	53140	0.67%	0.188%
240	13.001	12.967	13.020	VV	620	15326	0.19%	0.054%
241	13.093	13.020	13.169	VV	4786	117707	1.50%	0.417%
242	13.199	13.169	13.245	VV	625	23721	0.30%	0.084%
243	13.276	13.245	13.299	VV	545	14400	0.18%	0.051%
244	13.315	13.299	13.338	VV	618	9641	0.12%	0.034%
245	13.400	13.338	13.430	VV	2674	50183	0.64%	0.178%
246	13.446	13.430	13.518	VV	1860	33811	0.43%	0.120%

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247	13.540	13.518	13.575	VV	523	8603	0.11%	0.030%
248	13.580	13.575	13.609	VV	244	2066	0.03%	0.007%
249	13.619	13.609	13.633	VV	171	1937	0.02%	0.007%
250	13.659	13.633	13.700	VV	392	8367	0.11%	0.030%
251	13.704	13.700	13.725	VV	276	3160	0.04%	0.011%
252	13.752	13.725	13.767	PV	307	5107	0.06%	0.018%
253	13.806	13.767	13.827	VV	669	13980	0.18%	0.049%
254	13.880	13.827	13.914	VV	1731	42230	0.54%	0.149%
255	13.926	13.914	13.949	VV	497	7926	0.10%	0.028%
256	14.004	13.949	14.059	VV	1263	33492	0.43%	0.119%
257	14.091	14.059	14.114	VV	867	19410	0.25%	0.069%
258	14.157	14.114	14.194	VV	736	27963	0.36%	0.099%
259	14.215	14.194	14.246	VV	588	14767	0.19%	0.052%
260	14.254	14.246	14.274	VV	620	7577	0.10%	0.027%
261	14.286	14.274	14.295	VV	623	5601	0.07%	0.020%
262	14.309	14.295	14.339	VV	638	13833	0.18%	0.049%
263	14.352	14.339	14.372	VV	529	7485	0.10%	0.026%
264	14.385	14.372	14.449	VV	477	14817	0.19%	0.052%
265	14.504	14.449	14.522	VV	1772	31182	0.40%	0.110%
266	14.542	14.522	14.570	VV	2350	33284	0.42%	0.118%
267	14.578	14.570	14.615	VV	446	7161	0.09%	0.025%
268	14.636	14.615	14.674	PV	276	5916	0.08%	0.021%
269	14.680	14.674	14.705	VV	188	2563	0.03%	0.009%
270	14.718	14.705	14.770	VV	436	10322	0.13%	0.037%
271	14.779	14.770	14.807	VV	262	3985	0.05%	0.014%
272	14.827	14.807	14.838	VV	311	3800	0.05%	0.013%
273	14.849	14.838	14.866	VV	347	4124	0.05%	0.015%
274	14.880	14.866	14.888	VV	358	2915	0.04%	0.010%
275	14.919	14.888	15.030	VV	10591	232094	2.95%	0.822%
276	15.067	15.030	15.102	VV	2725	56329	0.72%	0.199%
277	15.110	15.102	15.149	VV	542	7673	0.10%	0.027%
278	15.156	15.149	15.165	VV	206	1446	0.02%	0.005%
279	15.259	15.165	15.289	VV	671	24518	0.31%	0.087%
280	15.295	15.289	15.313	VV	180	2053	0.03%	0.007%
281	15.325	15.313	15.340	VV	197	2442	0.03%	0.009%
282	15.381	15.340	15.402	VV	477	11791	0.15%	0.042%
283	15.417	15.402	15.429	VV	699	7738	0.10%	0.027%
284	15.445	15.429	15.476	VV	583	12736	0.16%	0.045%
285	15.520	15.476	15.537	VV	638	16911	0.21%	0.060%
286	15.559	15.537	15.589	VV	2639	41064	0.52%	0.145%
287	15.607	15.589	15.662	VV	552	12863	0.16%	0.046%
288	15.674	15.662	15.686	PV	242	1770	0.02%	0.006%
289	15.716	15.686	15.725	PV	287	4317	0.05%	0.015%
290	15.736	15.725	15.745	VV	409	3253	0.04%	0.012%
291	15.754	15.745	15.765	VV	311	2747	0.03%	0.010%
292	15.781	15.765	15.821	PV	442	7997	0.10%	0.028%
293	15.838	15.821	15.849	VV	279	3807	0.05%	0.013%
294	15.872	15.849	15.890	VV	333	5747	0.07%	0.020%
295	15.932	15.890	16.012	PV	1392	47808	0.61%	0.169%
296	16.039	16.012	16.078	VV	2248	36266	0.46%	0.128%
297	16.115	16.078	16.157	VV	1499	27802	0.35%	0.098%
298	16.183	16.157	16.205	VV	789	13878	0.18%	0.049%
299	16.219	16.205	16.244	VV	457	7931	0.10%	0.028%

rteres

300	16.288	16.244	16.299	VV	384	7971	0.10%	0.028%
301	16.359	16.299	16.381	VV	596	17844	0.23%	0.063%
302	16.418	16.381	16.447	VV	586	16107	0.20%	0.057%
303	16.503	16.447	16.524	VV	2682	52246	0.66%	0.185%
304	16.546	16.524	16.597	VV	5528	86632	1.10%	0.307%
305	16.632	16.597	16.658	VV	440	10976	0.14%	0.039%
306	16.679	16.658	16.689	VV	347	4381	0.06%	0.016%
307	16.702	16.689	16.735	PV	422	6867	0.09%	0.024%
308	16.742	16.735	16.755	VV	316	2303	0.03%	0.008%
309	16.794	16.755	16.845	PV	597	15678	0.20%	0.055%
310	16.868	16.845	16.911	VV	1193	25815	0.33%	0.091%
311	16.951	16.911	16.988	VV	2847	47361	0.60%	0.168%
312	16.998	16.988	17.007	VV	535	3929	0.05%	0.014%
313	17.033	17.007	17.043	VV	636	9616	0.12%	0.034%
314	17.098	17.043	17.107	VV	753	20724	0.26%	0.073%
315	17.117	17.107	17.125	VV	752	7327	0.09%	0.026%
316	17.150	17.125	17.170	VV	686	16785	0.21%	0.059%
317	17.181	17.170	17.195	VV	634	7605	0.10%	0.027%
318	17.231	17.195	17.239	VV	916	16606	0.21%	0.059%
319	17.246	17.239	17.292	VV	863	20329	0.26%	0.072%
320	17.315	17.292	17.334	VV	753	12859	0.16%	0.046%
321	17.385	17.334	17.447	VV	3638	82556	1.05%	0.292%
322	17.475	17.447	17.496	VV	1288	24534	0.31%	0.087%
323	17.512	17.496	17.523	VV	715	8253	0.10%	0.029%
324	17.540	17.523	17.580	VV	647	15810	0.20%	0.056%
325	17.589	17.580	17.612	VV	590	7314	0.09%	0.026%
326	17.676	17.612	17.709	VV	1083	32428	0.41%	0.115%
327	17.741	17.709	17.784	VV	6565	142287	1.81%	0.504%
328	17.806	17.784	17.866	VV	4489	89616	1.14%	0.317%
329	17.880	17.866	17.919	VV	872	17215	0.22%	0.061%
330	17.948	17.919	17.982	VV	493	11817	0.15%	0.042%
331	18.045	17.982	18.082	PV	498	15310	0.19%	0.054%
332	18.125	18.082	18.137	VV	205	5584	0.07%	0.020%
			Sum of corrected areas:			28250556		

Aromatic EPH 111424.M Tue Nov 19 06:19:49 2024

CALIBRATION SUMMARY

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

Inital Calibration Report for SequenceID : FC111424AL

AreaCount

Parameter Range	FC067748.D	FC067749.D	FC067750.D	FC067751.D	FC067752.D	
Aliphatic C9-C12	46442029.000	24666595.000	9992394.000	5182647.000	2556169.000	
Aliphatic C12-C16	31783530.000	16951541.000	6841286.000	3561240.000	1743949.000	
Aliphatic C16-C21	45893154.000	24733385.000	10219387.000	5444223.000	2676662.000	
Aliphatic C21-C28	55776518.000	29828483.000	12486021.000	6692087.000	3488783.000	
Aliphatic C28-C40	63293952.000	33876340.000	14624061.000	7555903.000	4180402.000	
Aliphatic EPH	243189183.000	130056344.000	54163149.000	28436100.000	14645965.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	165791.359333	4.188				
Aliphatic C12-C16	170384.422	4.229				
Aliphatic C16-C21	169621.5526664	6.711				
Aliphatic C21-C28	157280.0595	8.883				
Aliphatic C28-C40	121111.3356664	10.666				
Aliphatic EPH	150155.3239994	7.279				

Concentration

Parameter Range	FC067748.D	FC067749.D	FC067750.D	FC067751.D	FC067752.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	FC067748.D	FC067749.D	FC067750.D	FC067751.D	FC067752.D	
Aliphatic C9-C12	154806.763333	164443.966666	166539.900000	172754.900000	170411.266666	
Aliphatic C12-C16	158917.650000	169515.410000	171032.150000	178062.000000	174394.900000	
Aliphatic C16-C21	152977.180000	164889.233333	170323.116666	181474.100000	178444.133333	

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

Inital Calibration Report for SequenceID : FC111424AL

Aliphatic C21-C28	139441.295000	149142.415000	156075.262500	167302.175000	174439.150000	
Aliphatic C28-C40	105489.920000	112921.133333	121867.175000	125931.716666	139346.733333	
Aliphatic EPH	135105.101666	144507.048888	150453.191666	157978.333333	162732.944444	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067748.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 10:39
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: Nov 14 12:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.500	17738644	95.322 ug/ml
Spiked Amount	50.000		Recovery =	190.64%
12) S	1-chlorooctadecane (S...	12.935	13130093	94.678 ug/ml
Spiked Amount	50.000		Recovery =	189.36%
	Target Compounds			
1) T	n-Nonane (C9)	3.276	15187907	96.260 ug/ml
2) T	n-Decane (C10)	4.339	15507468	96.388 ug/ml
3) T	A~Naphthalene (C11.7)	5.917	17205086	96.635 ug/ml
4) T	n-Dodecane (C12)	6.354	15746654	96.395 ug/ml
5) T	A~2-methylnaphthalene...	6.973	16843025	97.053 ug/ml
6) T	n-Tetradecane (C14)	8.147	15675095	96.512 ug/ml
7) T	n-Hexadecane (C16)	9.746	16108435	96.150 ug/ml
8) T	n-Octadecane (C18)	11.187	16039699	95.046 ug/ml
10) T	n-Eicosane (C20)	12.493	15119356	94.475 ug/ml
11) T	n-Heneicosane (C21)	13.103	14734099	94.353 ug/ml
13) T	n-Docosane (C22)	13.688	14509212	94.210 ug/ml
14) T	n-Tetracosane (C24)	14.790	14199393	94.386 ug/ml
15) T	n-Hexacosane (C26)	15.809	13771253	94.721 ug/ml
16) T	n-Octacosane (C28)	16.757	13296660	94.172 ug/ml
17) T	n-Tricontane (C30)	17.643	13215277	93.043 ug/ml
18) T	n-Dotriacontane (C32)	18.473	12505064	92.088 ug/ml
19) T	n-Tetratriacontane (C34)	19.253	10875356	92.712 ug/ml
20) T	n-Hexatriacontane (C36)	19.992	9396830	94.927 ug/ml
21) T	n-Octatriacontane (C38)	20.714	8796691	94.705 ug/ml
22) T	n-Tetracontane (C40)	21.598	8504734	89.462 ug/ml

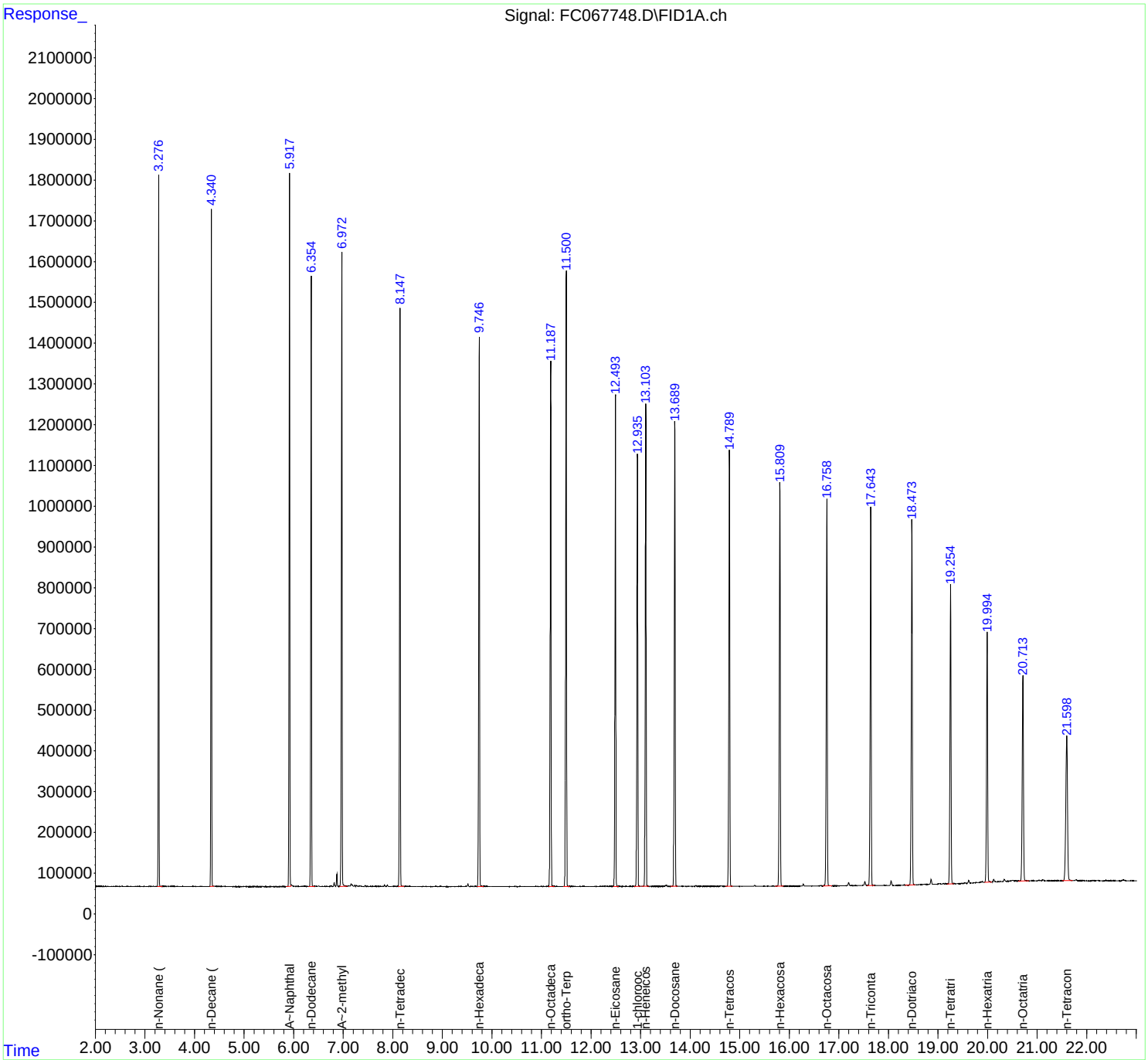
(f)=RT Delta > 1/2 Window (m)=manual int.

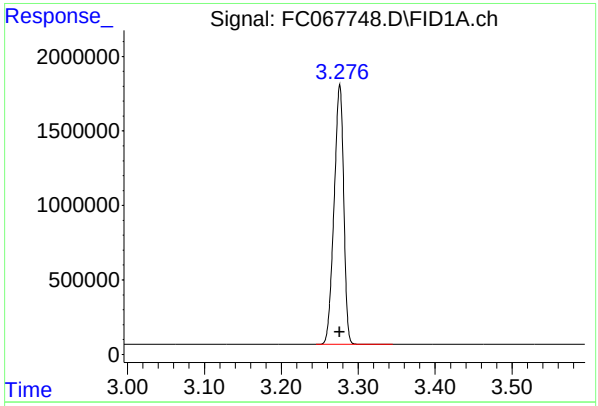
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067748.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 10:39
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 12:31:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

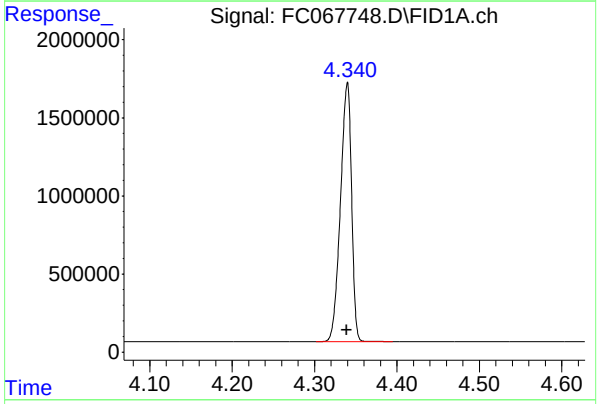




#1 n-Nonane (C9)

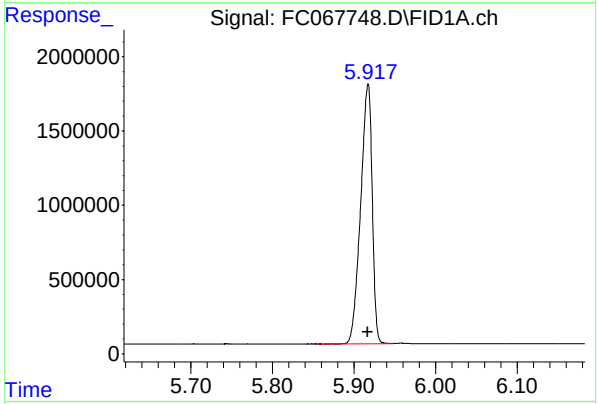
R.T.: 3.276 min
Delta R.T.: 0.000 min
Response: 15187907
Conc: 96.26 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



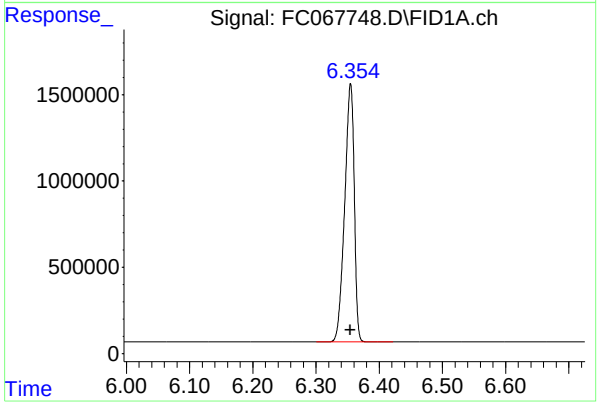
#2 n-Decane (C10)

R.T.: 4.339 min
Delta R.T.: 0.000 min
Response: 15507468
Conc: 96.39 ug/ml



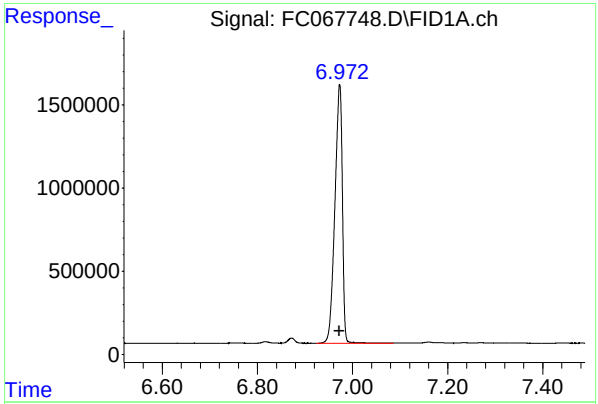
#3 A~Naphthalene (C11.7)

R.T.: 5.917 min
Delta R.T.: 0.000 min
Response: 17205086
Conc: 96.63 ug/ml



#4 n-Dodecane (C12)

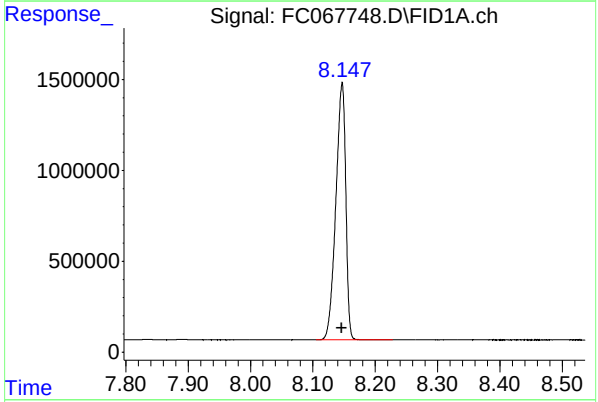
R.T.: 6.354 min
Delta R.T.: 0.000 min
Response: 15746654
Conc: 96.40 ug/ml



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

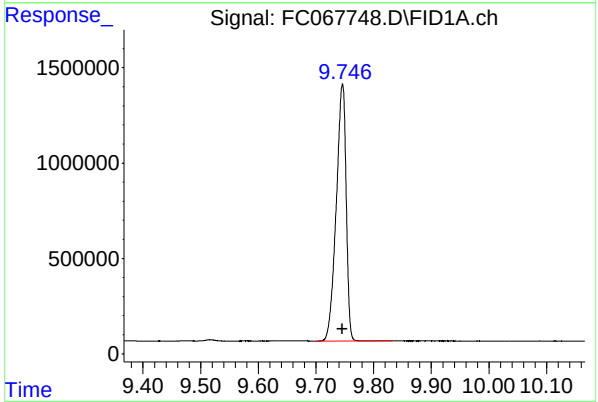
R.T.: 6.973 min
Delta R.T.: 0.000 min
Response: 16843025
Conc: 97.05 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



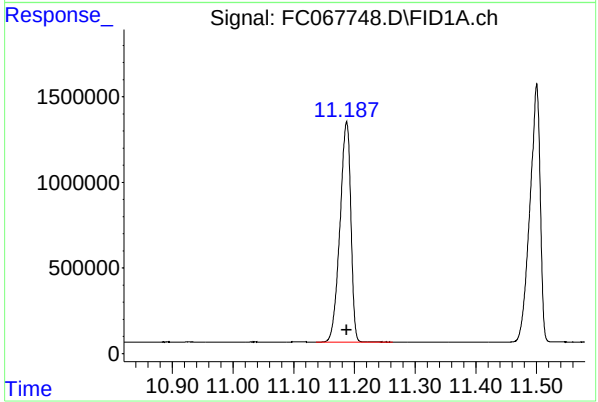
#6 n-Tetradecane (C14)

R.T.: 8.147 min
Delta R.T.: 0.000 min
Response: 15675095
Conc: 96.51 ug/ml



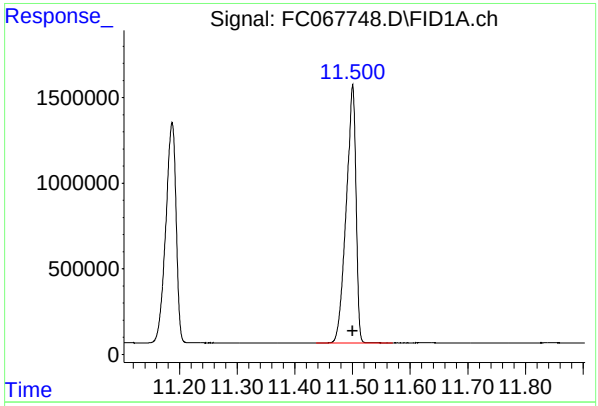
#7 n-Hexadecane (C16)

R.T.: 9.746 min
Delta R.T.: 0.000 min
Response: 16108435
Conc: 96.15 ug/ml



#8 n-Octadecane (C18)

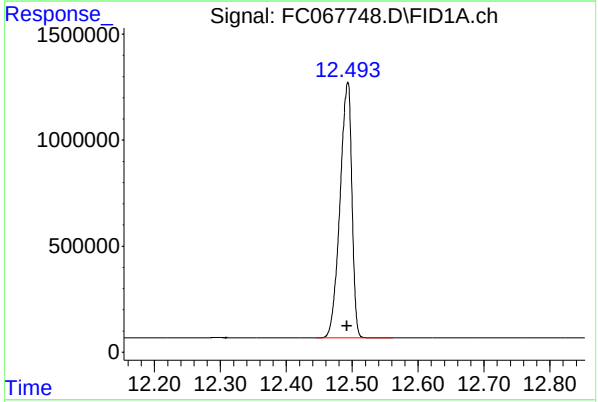
R.T.: 11.187 min
Delta R.T.: 0.000 min
Response: 16039699
Conc: 95.05 ug/ml



#9 ortho-Terphenyl (SURR)

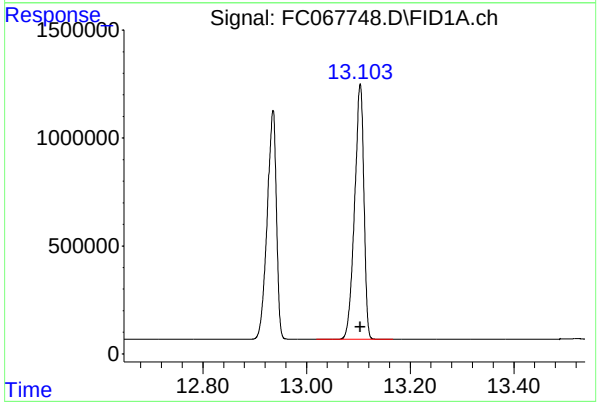
R.T.: 11.500 min
Delta R.T.: 0.000 min
Response: 17738644
Conc: 95.32 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



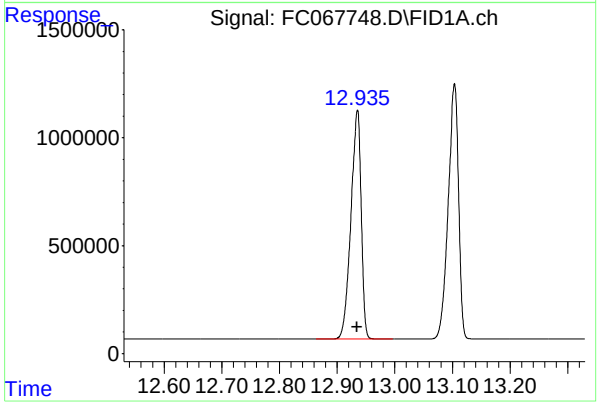
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.000 min
Response: 15119356
Conc: 94.48 ug/ml



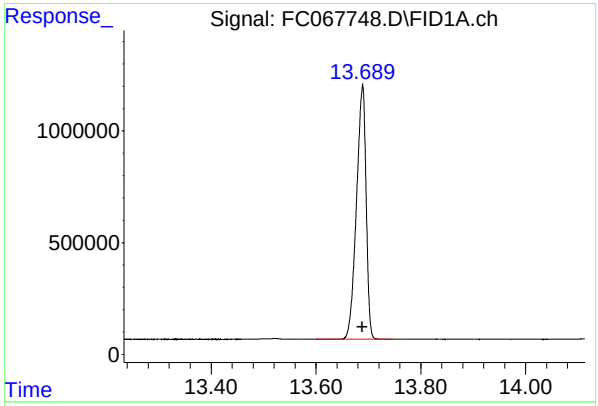
#11 n-Heneicosane (C21)

R.T.: 13.103 min
Delta R.T.: 0.000 min
Response: 14734099
Conc: 94.35 ug/ml



#12 1-chlorooctadecane (SURR)

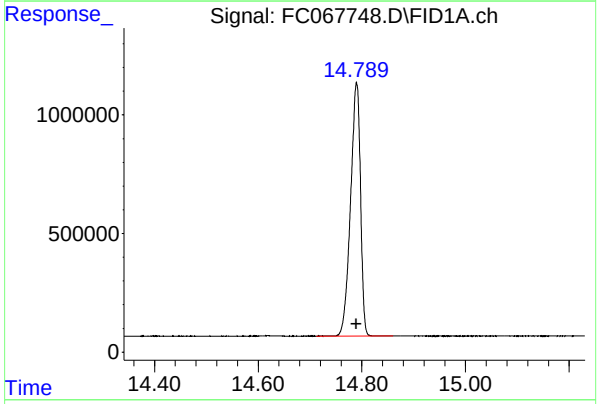
R.T.: 12.935 min
Delta R.T.: 0.000 min
Response: 13130093
Conc: 94.68 ug/ml



#13 n-Docosane (C22)

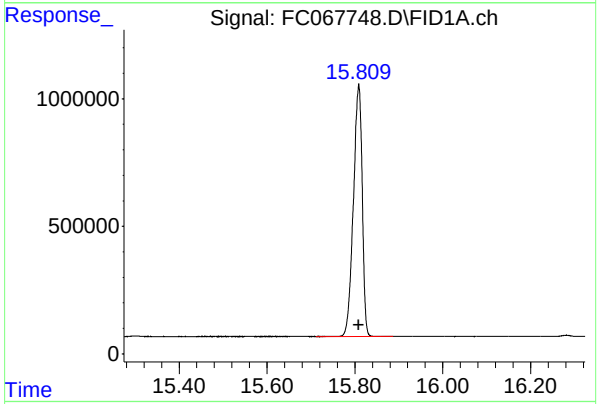
R.T.: 13.688 min
Delta R.T.: 0.000 min
Response: 14509212
Conc: 94.21 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



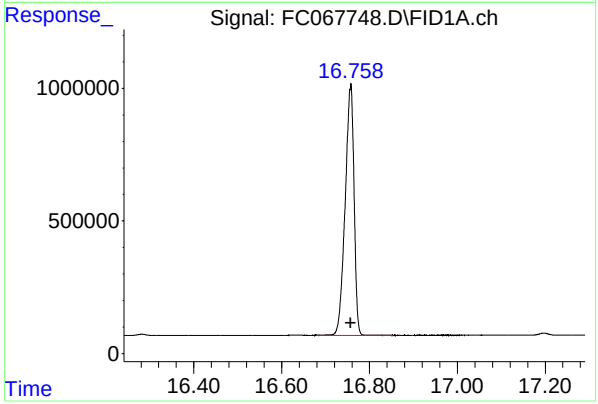
#14 n-Tetracosane (C24)

R.T.: 14.790 min
Delta R.T.: 0.000 min
Response: 14199393
Conc: 94.39 ug/ml



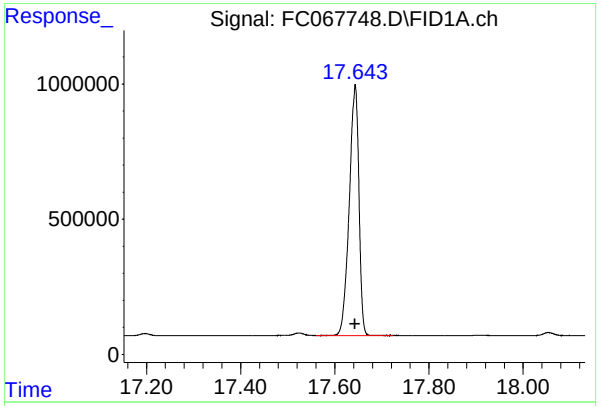
#15 n-Hexacosane (C26)

R.T.: 15.809 min
Delta R.T.: 0.000 min
Response: 13771253
Conc: 94.72 ug/ml



#16 n-Octacosane (C28)

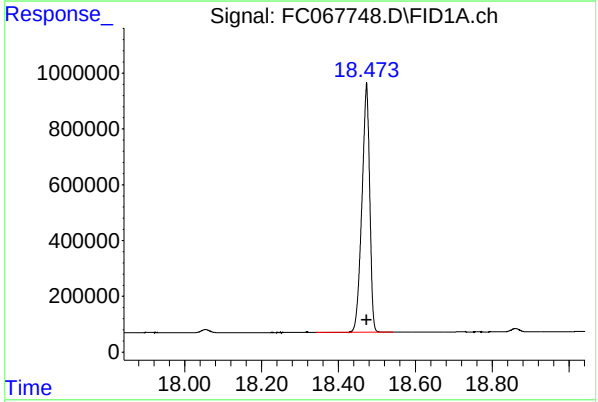
R.T.: 16.757 min
Delta R.T.: 0.000 min
Response: 13296660
Conc: 94.17 ug/ml



#17 n-Tricontane (C30)

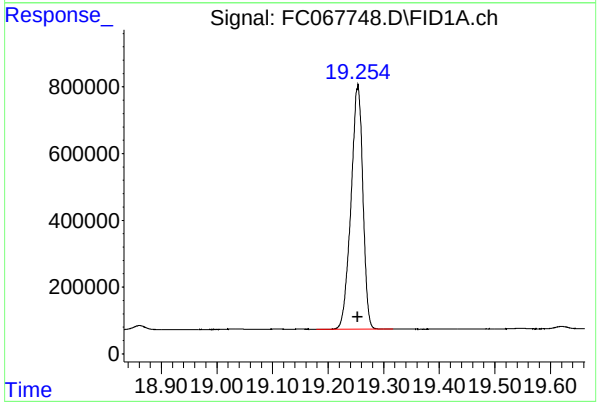
R.T.: 17.643 min
Delta R.T.: 0.000 min
Response: 13215277
Conc: 93.04 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



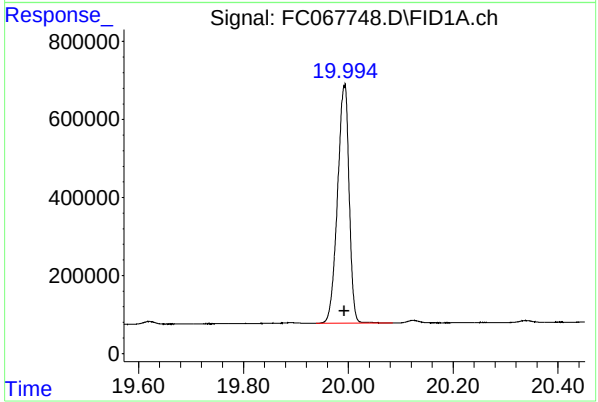
#18 n-Dotriacontane (C32)

R.T.: 18.473 min
Delta R.T.: 0.000 min
Response: 12505064
Conc: 92.09 ug/ml



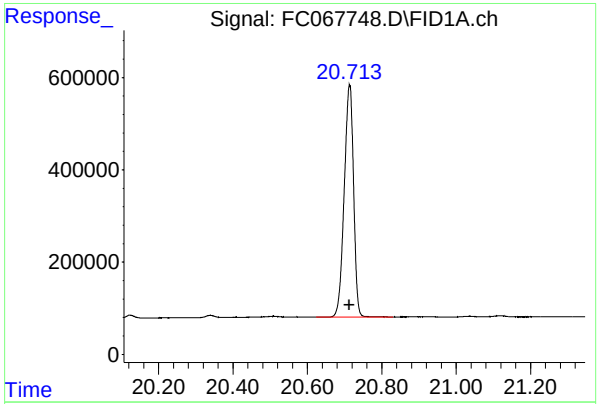
#19 n-Tetratriacontane (C34)

R.T.: 19.253 min
Delta R.T.: 0.000 min
Response: 10875356
Conc: 92.71 ug/ml



#20 n-Hexatriacontane (C36)

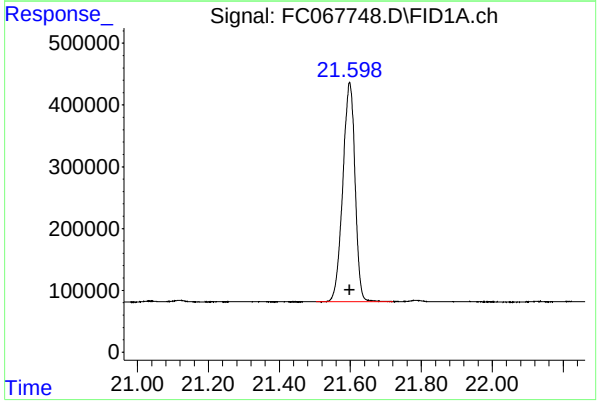
R.T.: 19.992 min
Delta R.T.: 0.000 min
Response: 9396830
Conc: 94.93 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.714 min
Delta R.T.: 0.000 min
Response: 8796691
Conc: 94.71 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.598 min
Delta R.T.: 0.000 min
Response: 8504734
Conc: 89.46 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067748.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 10:39
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 111424.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	3.276	3.245	3.345	BB	1734686	15187907	85.62%	4.929%
2	4.339	4.302	4.395	BB	1671634	15507468	87.42%	5.033%
3	5.917	5.853	5.948	BV	1741603	17205086	96.99%	5.584%
4	6.354	6.300	6.422	BB	1504993	15746654	88.77%	5.111%
5	6.973	6.923	7.085	BV	1555512	16843025	94.95%	5.467%
6	8.147	8.105	8.228	BB	1414819	15675095	88.37%	5.088%
7	9.746	9.700	9.833	BB	1343957	16108435	90.81%	5.228%
8	11.187	11.137	11.263	BB	1287050	16039699	90.42%	5.206%
9	11.500	11.437	11.570	BB	1506943	17738644	100.00%	5.757%
10	12.493	12.445	12.562	BB	1210292	15119356	85.23%	4.907%
11	12.935	12.863	12.997	BB	1061835	13130093	74.02%	4.262%
12	13.103	13.018	13.167	BB	1184295	14734099	83.06%	4.782%
13	13.688	13.600	13.747	BB	1129888	14509212	81.79%	4.709%
14	14.790	14.712	14.860	BB	1068773	14199393	80.05%	4.609%
15	15.809	15.712	15.887	BB	986127	13771253	77.63%	4.470%
16	16.757	16.678	16.853	BB	935979	13296660	74.96%	4.316%
17	17.643	17.560	17.723	VB	932069	13215277	74.50%	4.289%
18	18.473	18.342	18.542	BB	896427	12505064	70.50%	4.059%
19	19.253	19.178	19.317	BB	726903	10875356	61.31%	3.530%
20	19.992	19.938	20.085	BV	609569	9396830	52.97%	3.050%
21	20.714	20.623	20.830	BB	503719	8796691	49.59%	2.855%
22	21.598	21.503	21.720	BB	355009	8504734	47.94%	2.760%
			Sum of corrected areas:			308106031		

Aliphatic EPH 111424.M Fri Nov 15 03:28:31 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067749.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:15
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: Nov 14 12:33:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.494	9494610	50.676 ug/ml
Spiked Amount	50.000		Recovery =	101.35%
12) S	1-chlorooctadecane (S...	12.930	7061712	50.610 ug/ml
Spiked Amount	50.000		Recovery =	101.22%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	8066160	50.743 ug/ml
2) T	n-Decane (C10)	4.337	8240656	50.807 ug/ml
3) T	A~Naphthalene (C11.7)	5.913	9139963	50.883 ug/ml
4) T	n-Dodecane (C12)	6.351	8359779	50.778 ug/ml
5) T	A~2-methylnaphthalene...	6.968	8894913	50.829 ug/ml
6) T	n-Tetradecane (C14)	8.143	8337977	50.884 ug/ml
7) T	n-Hexadecane (C16)	9.741	8613564	50.934 ug/ml
8) T	n-Octadecane (C18)	11.182	8636330	50.778 ug/ml
10) T	n-Eicosane (C20)	12.488	8156976	50.643 ug/ml
11) T	n-Heneicosane (C21)	13.099	7940079	50.561 ug/ml
13) T	n-Docosane (C22)	13.684	7804830	50.450 ug/ml
14) T	n-Tetracosane (C24)	14.786	7604012	50.362 ug/ml
15) T	n-Hexacosane (C26)	15.804	7328788	50.272 ug/ml
16) T	n-Octacosane (C28)	16.752	7090853	50.146 ug/ml
17) T	n-Tricontane (C30)	17.638	7057449	49.792 ug/ml
18) T	n-Dotriacontane (C32)	18.468	6727381	49.693 ug/ml
19) T	n-Tetratriacontane (C34)	19.251	5796180	49.607 ug/ml
20) T	n-Hexatriacontane (C36)	19.987	5004110	50.366 ug/ml
21) T	n-Octatriacontane (C38)	20.710	4618407	49.814 ug/ml
22) T	n-Tetracontane (C40)	21.592	4672813	49.433 ug/ml

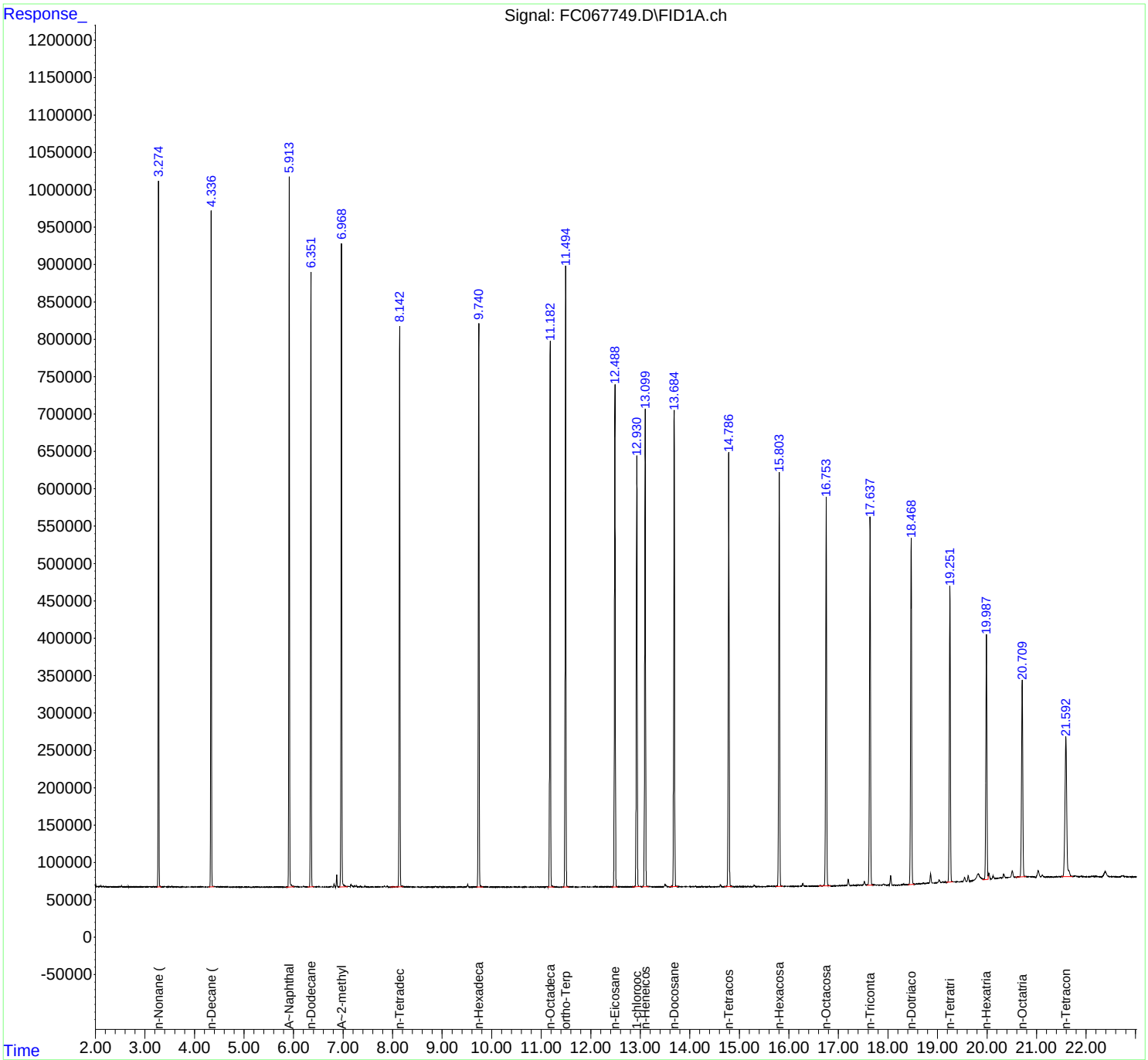
(f)=RT Delta > 1/2 Window (m)=manual int.

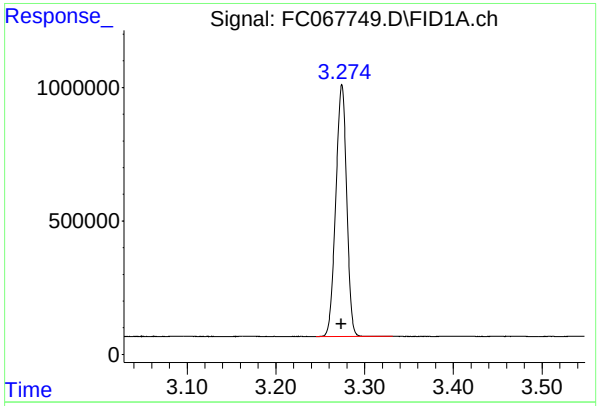
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067749.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:15
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 12:33:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

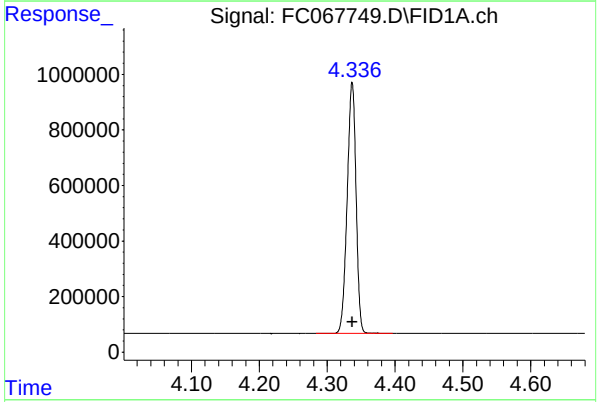




#1 n-Nonane (C9)

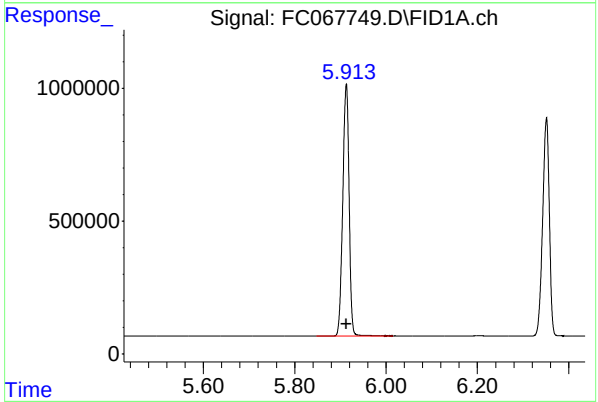
R.T.: 3.274 min
Delta R.T.: 0.000 min
Response: 8066160
Conc: 50.74 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



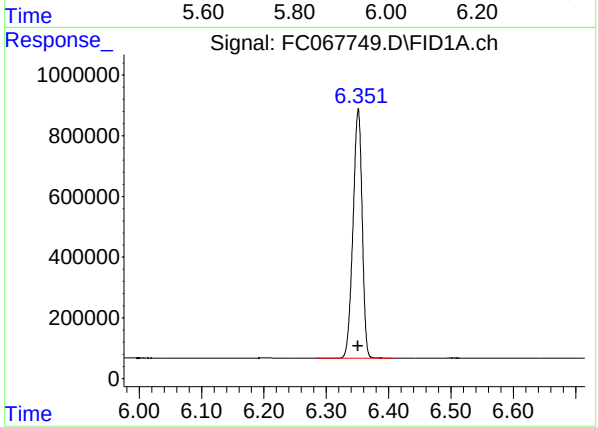
#2 n-Decane (C10)

R.T.: 4.337 min
Delta R.T.: 0.000 min
Response: 8240656
Conc: 50.81 ug/ml



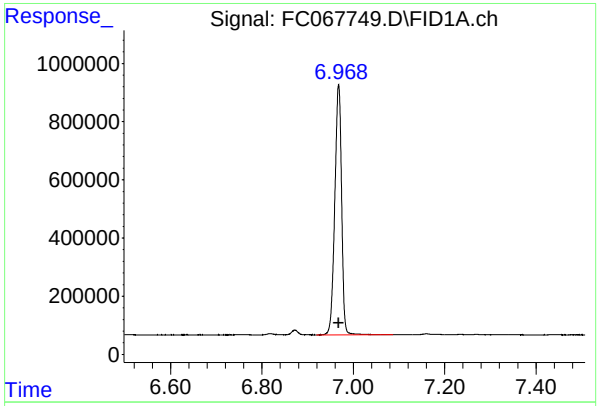
#3 A~Naphthalene (C11.7)

R.T.: 5.913 min
Delta R.T.: 0.000 min
Response: 9139963
Conc: 50.88 ug/ml



#4 n-Dodecane (C12)

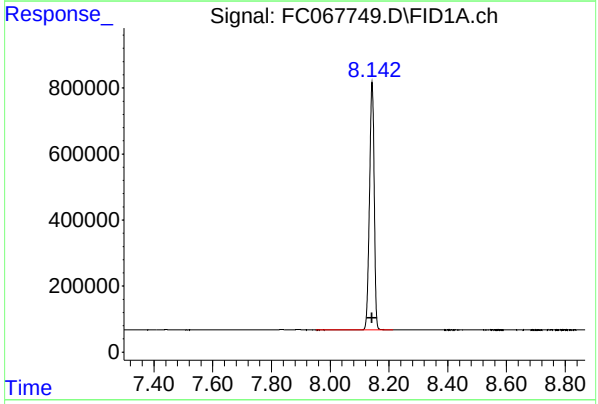
R.T.: 6.351 min
Delta R.T.: 0.000 min
Response: 8359779
Conc: 50.78 ug/ml



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

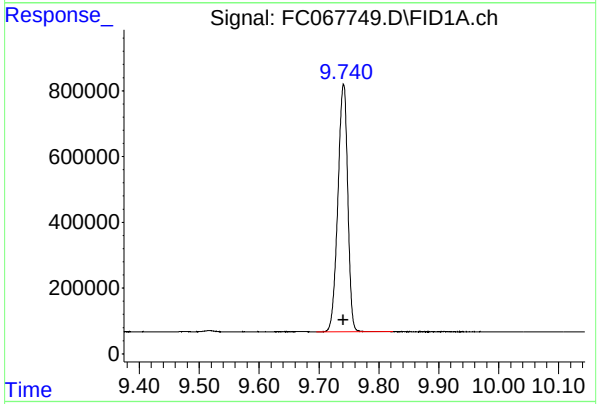
R.T.: 6.968 min
Delta R.T.: 0.000 min
Response: 8894913
Conc: 50.83 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



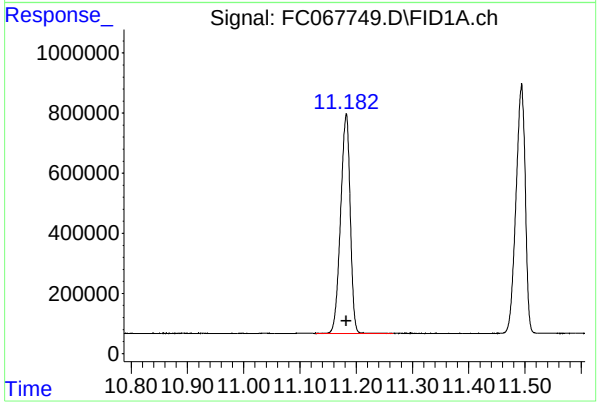
#6 n-Tetradecane (C14)

R.T.: 8.143 min
Delta R.T.: 0.000 min
Response: 8337977
Conc: 50.88 ug/ml



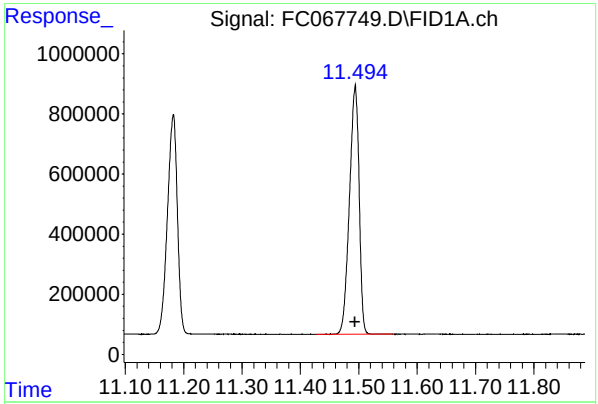
#7 n-Hexadecane (C16)

R.T.: 9.741 min
Delta R.T.: 0.000 min
Response: 8613564
Conc: 50.93 ug/ml



#8 n-Octadecane (C18)

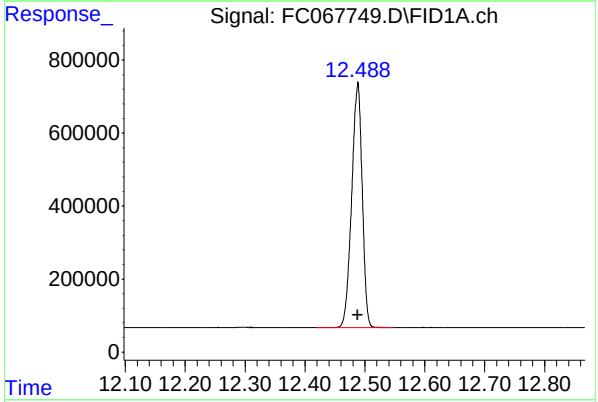
R.T.: 11.182 min
Delta R.T.: 0.000 min
Response: 8636330
Conc: 50.78 ug/ml



#9 ortho-Terphenyl (SURR)

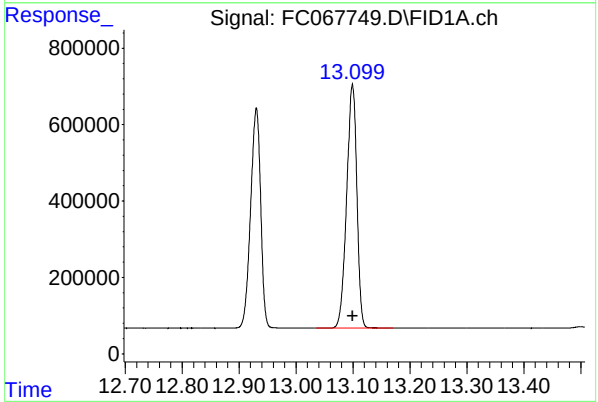
R.T.: 11.494 min
Delta R.T.: 0.000 min
Response: 9494610
Conc: 50.68 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



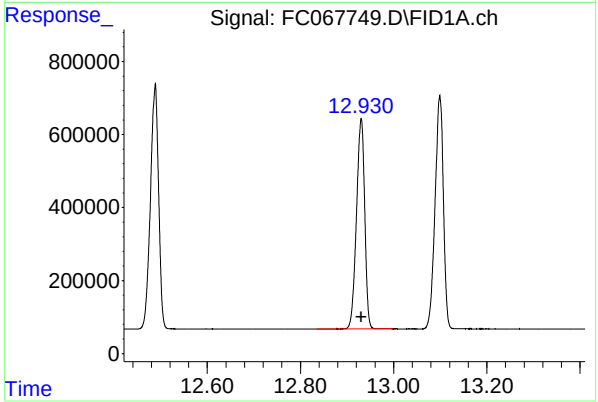
#10 n-Eicosane (C20)

R.T.: 12.488 min
Delta R.T.: 0.000 min
Response: 8156976
Conc: 50.64 ug/ml



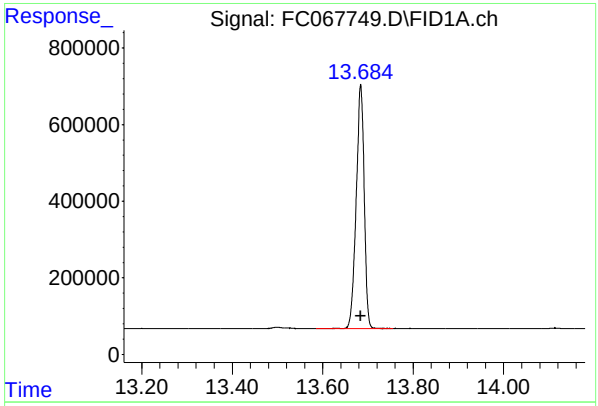
#11 n-Heneicosane (C21)

R.T.: 13.099 min
Delta R.T.: 0.000 min
Response: 7940079
Conc: 50.56 ug/ml



#12 1-chlorooctadecane (SURR)

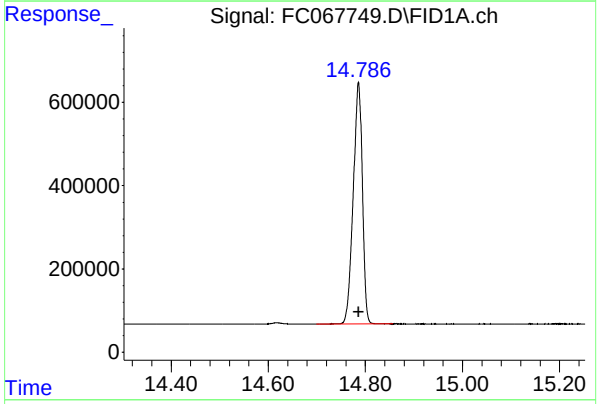
R.T.: 12.930 min
Delta R.T.: 0.000 min
Response: 7061712
Conc: 50.61 ug/ml



#13 n-Docosane (C22)

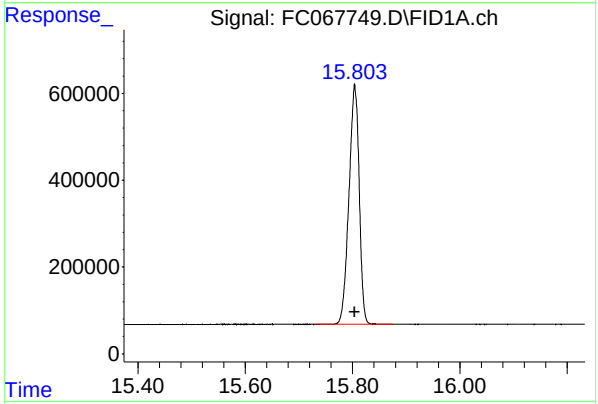
R.T.: 13.684 min
Delta R.T.: 0.000 min
Response: 7804830
Conc: 50.45 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



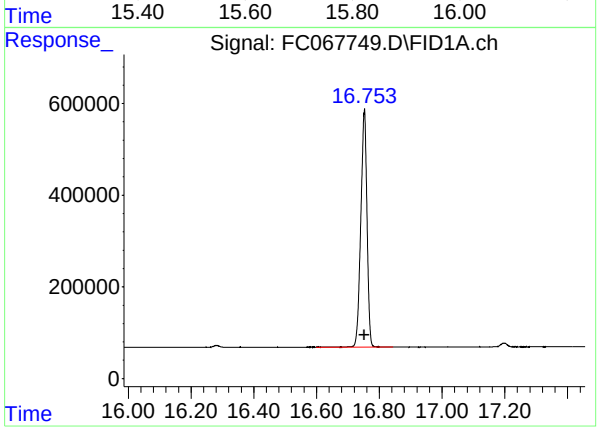
#14 n-Tetracosane (C24)

R.T.: 14.786 min
Delta R.T.: 0.000 min
Response: 7604012
Conc: 50.36 ug/ml



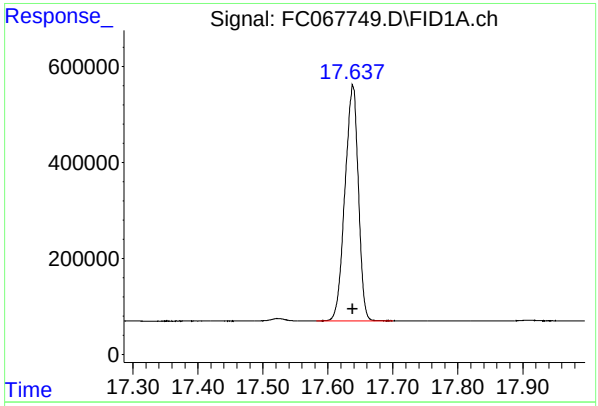
#15 n-Hexacosane (C26)

R.T.: 15.804 min
Delta R.T.: 0.000 min
Response: 7328788
Conc: 50.27 ug/ml



#16 n-Octacosane (C28)

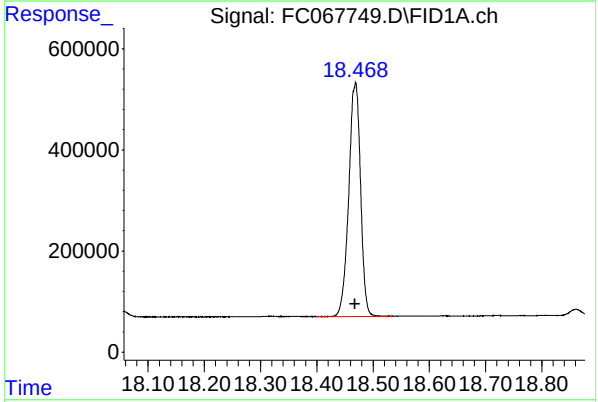
R.T.: 16.752 min
Delta R.T.: 0.000 min
Response: 7090853
Conc: 50.15 ug/ml



#17 n-Tricontane (C30)

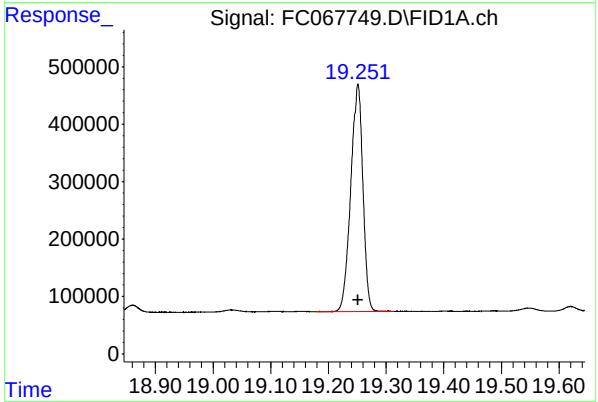
R.T.: 17.638 min
Delta R.T.: 0.000 min
Response: 7057449
Conc: 49.79 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



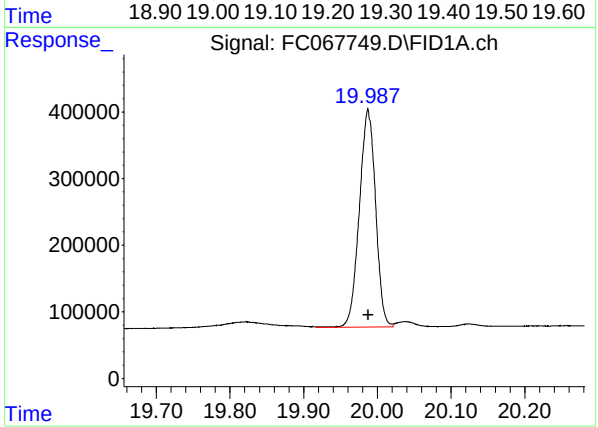
#18 n-Dotriacontane (C32)

R.T.: 18.468 min
Delta R.T.: 0.000 min
Response: 6727381
Conc: 49.69 ug/ml



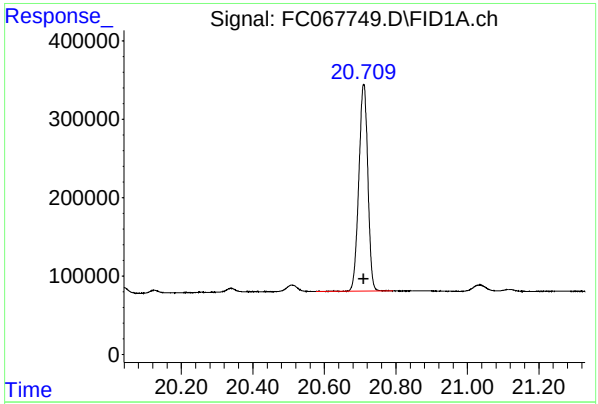
#19 n-Tetratriacontane (C34)

R.T.: 19.251 min
Delta R.T.: 0.000 min
Response: 5796180
Conc: 49.61 ug/ml



#20 n-Hexatriacontane (C36)

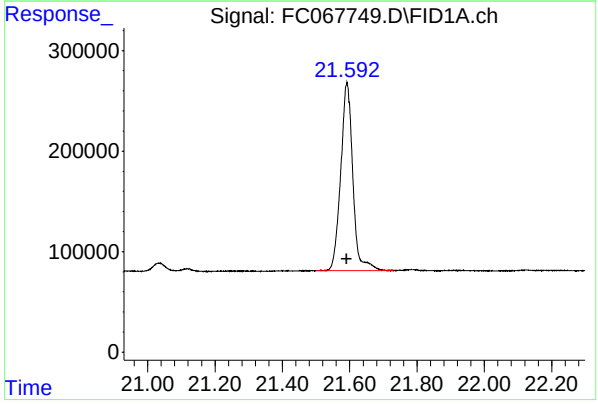
R.T.: 19.987 min
Delta R.T.: 0.000 min
Response: 5004110
Conc: 50.37 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.710 min
Delta R.T.: 0.000 min
Response: 4618407
Conc: 49.81 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.592 min
Delta R.T.: 0.000 min
Response: 4672813
Conc: 49.43 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067749.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:15
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 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.245	3.332	BB	942017	8066160	84.96%	4.899%
2	4.337	4.284	4.397	BB	906477	8240656	86.79%	5.005%
3	5.913	5.847	6.015	BB	954751	9139963	96.26%	5.551%
4	6.351	6.284	6.407	BB	826267	8359779	88.05%	5.077%
5	6.968	6.919	7.087	BV	862389	8894913	93.68%	5.402%
6	8.143	7.952	8.214	BB	747890	8337977	87.82%	5.064%
7	9.741	9.695	9.824	BB	752166	8613564	90.72%	5.232%
8	11.182	11.129	11.265	BB	729025	8636330	90.96%	5.245%
9	11.494	11.427	11.559	BB	822061	9494610	100.00%	5.767%
10	12.488	12.419	12.547	BB	675029	8156976	85.91%	4.954%
11	12.930	12.834	12.999	BB	577252	7061712	74.38%	4.289%
12	13.099	13.035	13.170	BB	635946	7940079	83.63%	4.822%
13	13.684	13.585	13.755	BB	635229	7804830	82.20%	4.740%
14	14.786	14.699	14.857	BB	581408	7604012	80.09%	4.618%
15	15.804	15.732	15.875	BB	553132	7328788	77.19%	4.451%
16	16.752	16.599	16.844	BB	514869	7090853	74.68%	4.307%
17	17.638	17.582	17.700	BB	491920	7057449	74.33%	4.286%
18	18.468	18.399	18.535	BB	461341	6727381	70.85%	4.086%
19	19.251	19.179	19.312	BB	397522	5796180	61.05%	3.520%
20	19.987	19.917	20.021	VV	325943	5004110	52.70%	3.039%
21	20.710	20.577	20.792	BB	263622	4618407	48.64%	2.805%
22	21.592	21.500	21.729	BB	187315	4672813	49.22%	2.838%

Sum of corrected areas: 164647542

Aliphatic EPH 111424.M Fri Nov 15 03:29:21 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067750.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:51
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: Nov 14 12:29:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.489	3895981	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12) S	1-chlorooctadecane (S...	12.927	2921225	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	n-Nonane (C9)	3.273	3273618	20.000 ug/ml
2) T	n-Decane (C10)	4.334	3333913	20.000 ug/ml
3) T	A~Naphthalene (C11.7)	5.910	3680682	20.000 ug/ml
4) T	n-Dodecane (C12)	6.349	3384863	20.000 ug/ml
5) T	A~2-methylnaphthalene...	6.965	3573153	20.000 ug/ml
6) T	n-Tetradecane (C14)	8.140	3361591	20.000 ug/ml
7) T	n-Hexadecane (C16)	9.738	3479695	20.000 ug/ml
8) T	n-Octadecane (C18)	11.178	3542342	20.000 ug/ml
10) T	n-Eicosane (C20)	12.484	3377516	20.000 ug/ml
11) T	n-Heneicosane (C21)	13.095	3299529	20.000 ug/ml
13) T	n-Docosane (C22)	13.681	3258558	20.000 ug/ml
14) T	n-Tetracosane (C24)	14.781	3177702	20.000 ug/ml
15) T	n-Hexacosane (C26)	15.801	3061261	20.000 ug/ml
16) T	n-Octacosane (C28)	16.748	2988500	20.000 ug/ml
17) T	n-Tricontane (C30)	17.635	3038323	20.000 ug/ml
18) T	n-Dotriacontane (C32)	18.465	2930784	20.000 ug/ml
19) T	n-Tetratriacontane (C34)	19.247	2517007	20.000 ug/ml
20) T	n-Hexatriacontane (C36)	19.984	2080234	20.000 ug/ml
21) T	n-Octatriacontane (C38)	20.706	1956058	20.000 ug/ml
22) T	n-Tetracontane (C40)	21.587	2101655	20.000 ug/ml

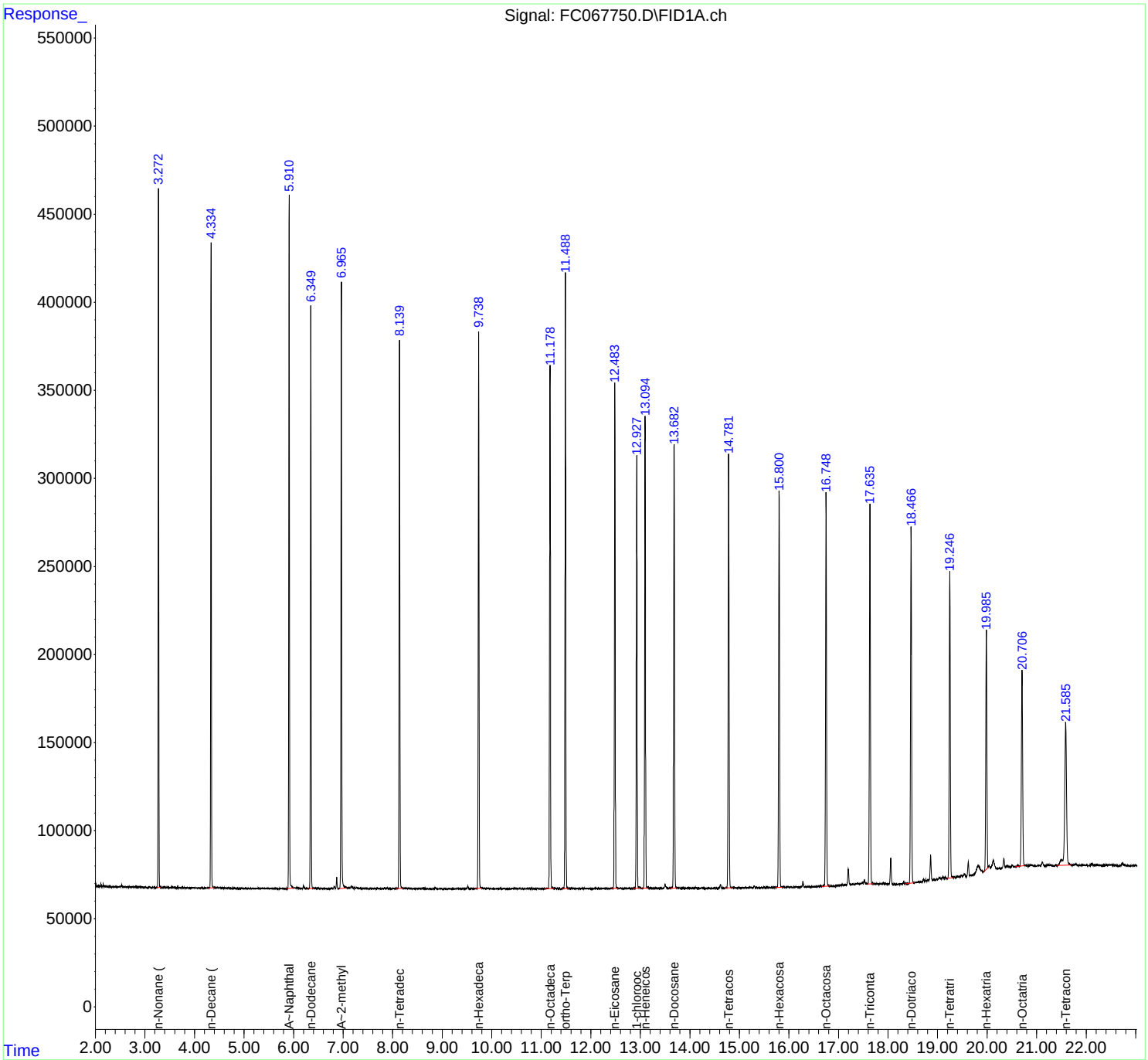
(f)=RT Delta > 1/2 Window (m)=manual int.

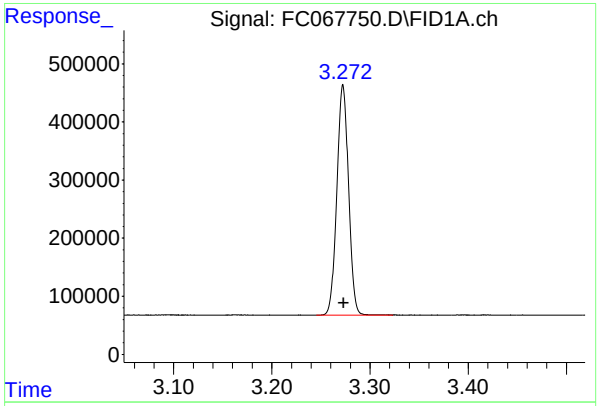
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067750.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:51
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 12:29:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:28:54 2024
Response via : Initial Calibration
Integrator: ChemStation

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

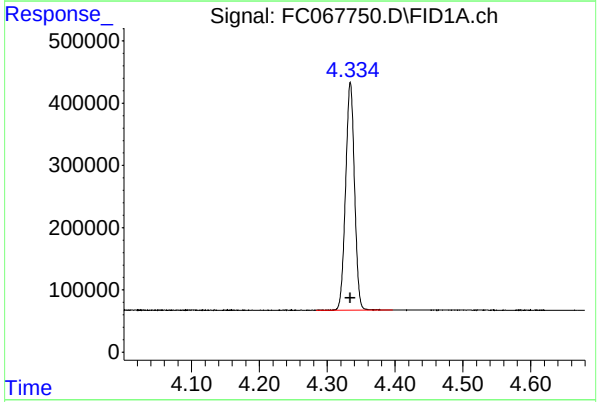




#1 n-Nonane (C9)

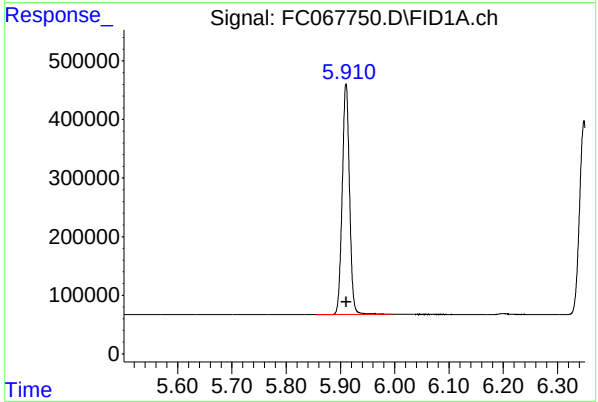
R.T.: 3.273 min
Delta R.T.: 0.000 min
Response: 3273618
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



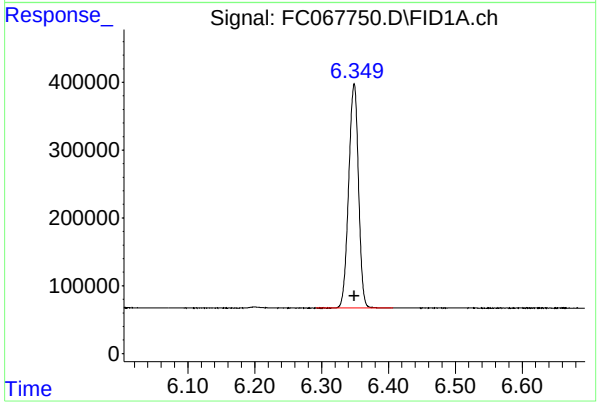
#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 3333913
Conc: 20.00 ug/ml



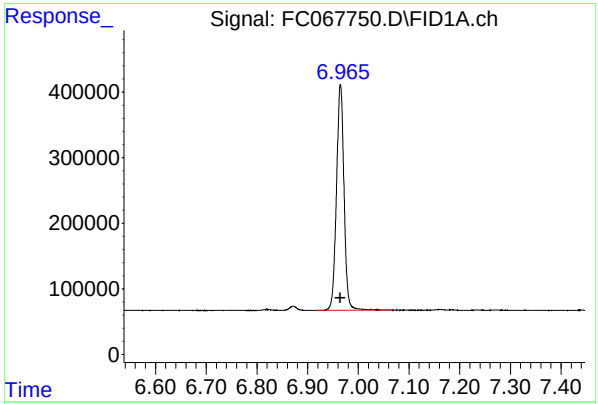
#3 A~Naphthalene (C11.7)

R.T.: 5.910 min
Delta R.T.: 0.000 min
Response: 3680682
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

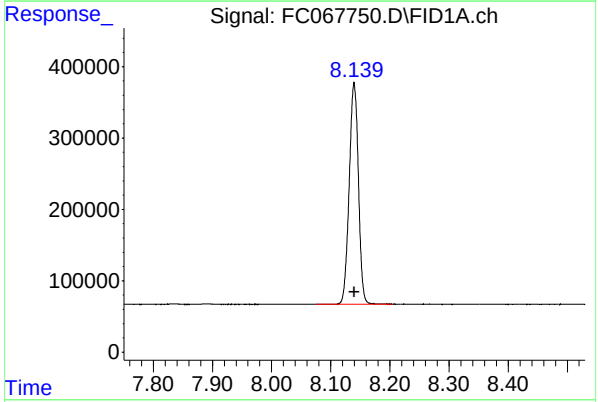
R.T.: 6.349 min
Delta R.T.: 0.000 min
Response: 3384863
Conc: 20.00 ug/ml



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

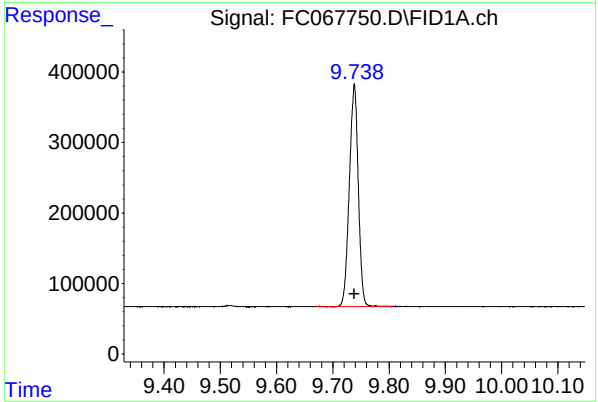
R.T.: 6.965 min
Delta R.T.: 0.000 min
Response: 3573153
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



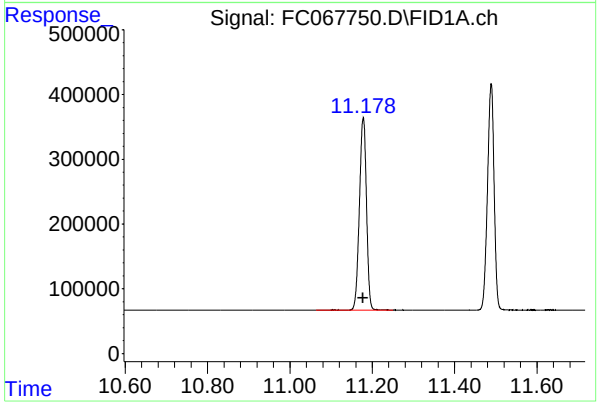
#6 n-Tetradecane (C14)

R.T.: 8.140 min
Delta R.T.: 0.000 min
Response: 3361591
Conc: 20.00 ug/ml



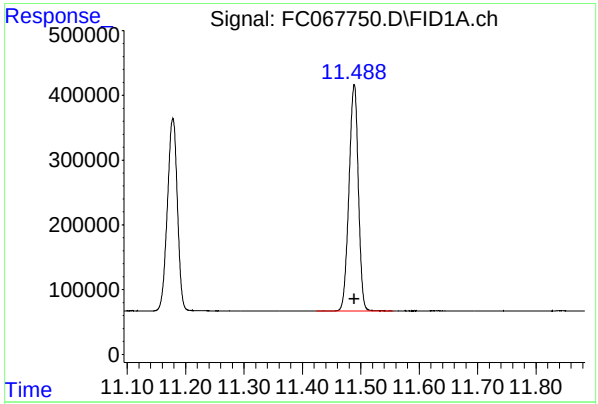
#7 n-Hexadecane (C16)

R.T.: 9.738 min
Delta R.T.: 0.000 min
Response: 3479695
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

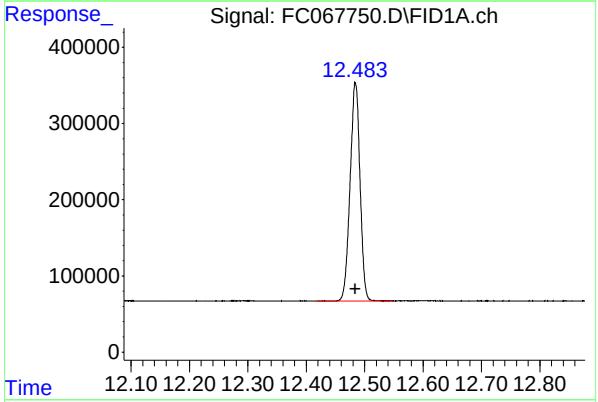
R.T.: 11.178 min
Delta R.T.: 0.000 min
Response: 3542342
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

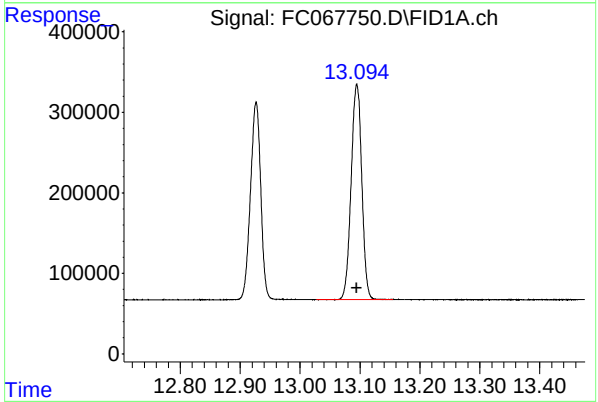
R.T.: 11.489 min
Delta R.T.: 0.000 min
Response: 3895981
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



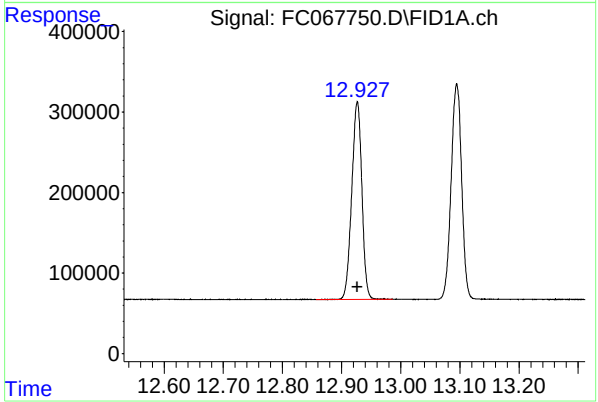
#10 n-Eicosane (C20)

R.T.: 12.484 min
Delta R.T.: 0.000 min
Response: 3377516
Conc: 20.00 ug/ml



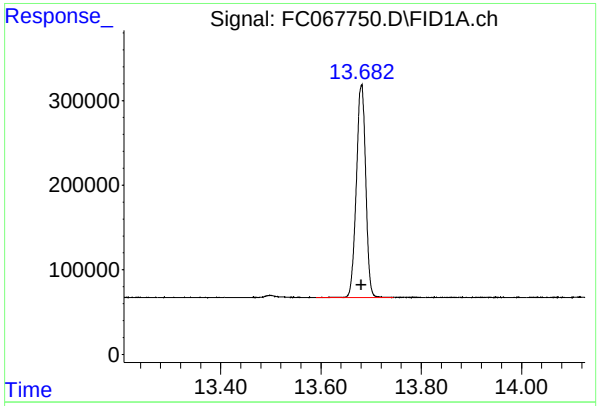
#11 n-Heneicosane (C21)

R.T.: 13.095 min
Delta R.T.: 0.000 min
Response: 3299529
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

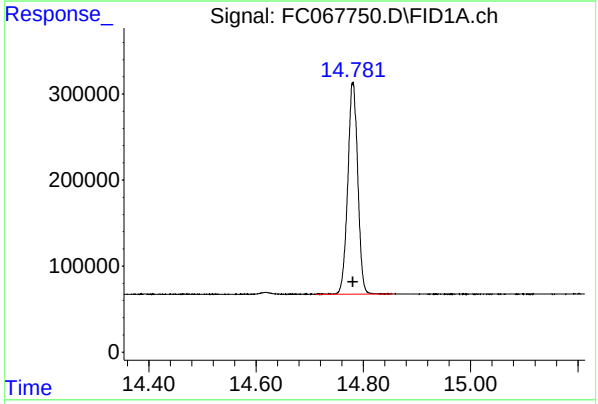
R.T.: 12.927 min
Delta R.T.: 0.000 min
Response: 2921225
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

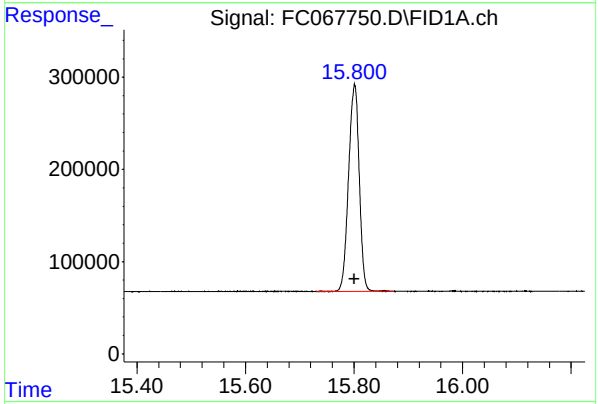
R.T.: 13.681 min
Delta R.T.: 0.000 min
Response: 3258558
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



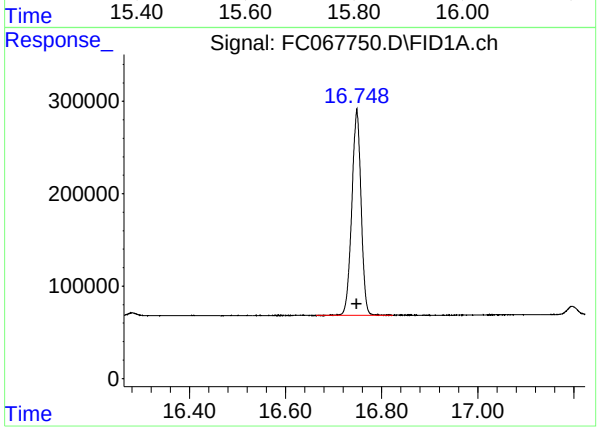
#14 n-Tetracosane (C24)

R.T.: 14.781 min
Delta R.T.: 0.000 min
Response: 3177702
Conc: 20.00 ug/ml



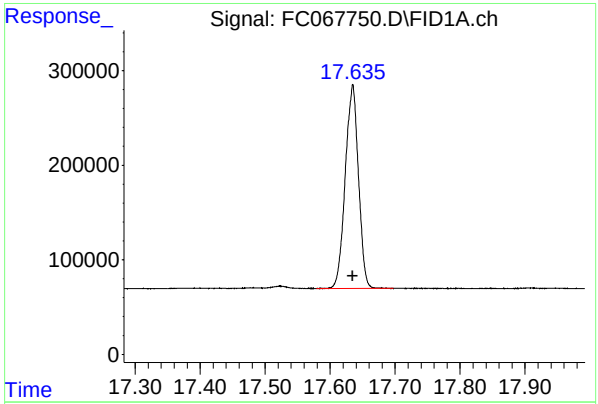
#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: 0.000 min
Response: 3061261
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

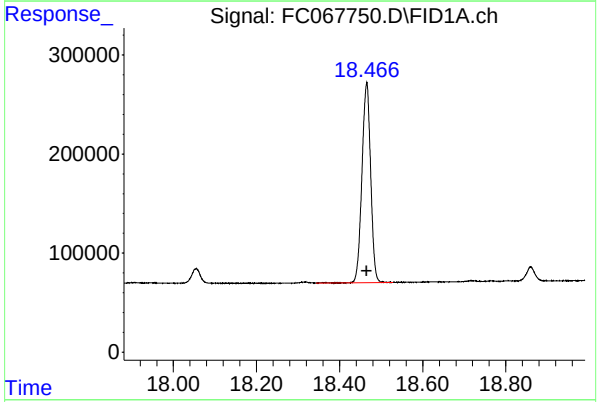
R.T.: 16.748 min
Delta R.T.: 0.000 min
Response: 2988500
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

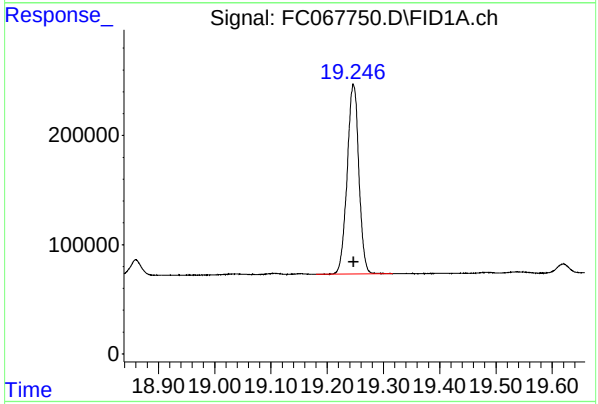
R.T.: 17.635 min
Delta R.T.: 0.000 min
Response: 3038323
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



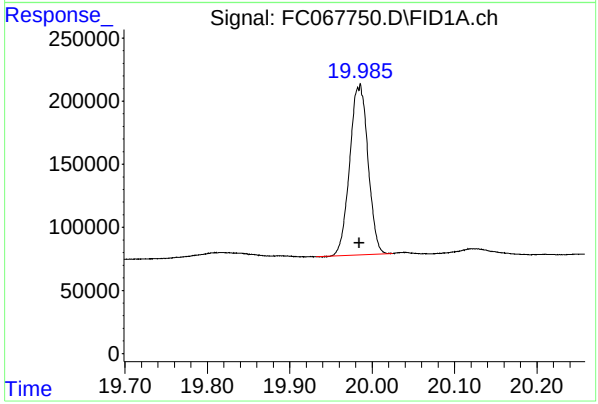
#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: 0.000 min
Response: 2930784
Conc: 20.00 ug/ml



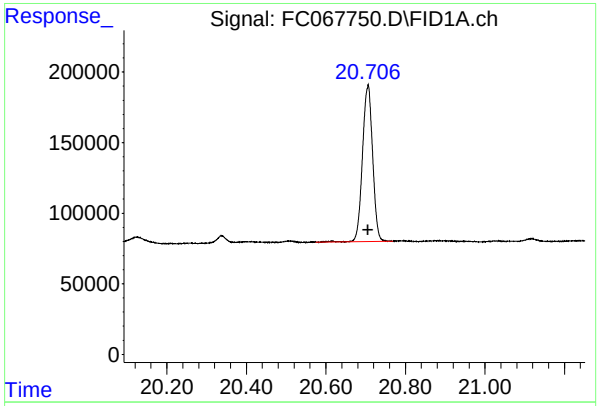
#19 n-Tetratriacontane (C34)

R.T.: 19.247 min
Delta R.T.: 0.000 min
Response: 2517007
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

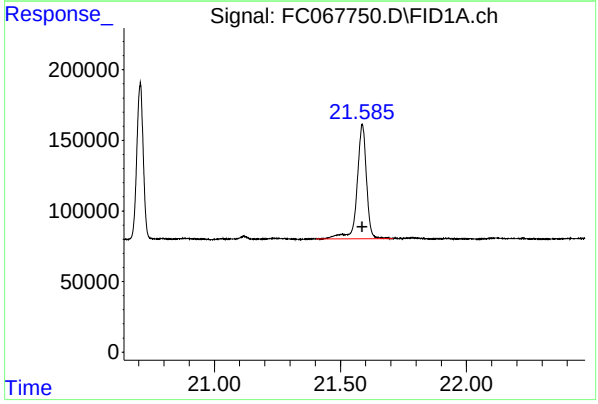
R.T.: 19.984 min
Delta R.T.: 0.000 min
Response: 2080234
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.706 min
Delta R.T.: 0.000 min
Response: 1956058
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.587 min
Delta R.T.: 0.000 min
Response: 2101655
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067750.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 11:51
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 111424.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	3.273	3.245	3.323	BB	395062	3273618	84.03%	4.798%
2	4.334	4.283	4.397	BB	366166	3333913	85.57%	4.886%
3	5.910	5.855	5.997	BB	394058	3680682	94.47%	5.394%
4	6.349	6.292	6.407	BB	330915	3384863	86.88%	4.961%
5	6.965	6.917	7.068	BB	344646	3573153	91.71%	5.237%
6	8.140	8.075	8.205	BB	309895	3361591	86.28%	4.927%
7	9.738	9.670	9.807	BB	316926	3479695	89.31%	5.100%
8	11.178	11.063	11.250	BB	297212	3542342	90.92%	5.191%
9	11.489	11.423	11.555	BB	350190	3895981	100.00%	5.710%
10	12.484	12.417	12.548	BB	287428	3377516	86.69%	4.950%
11	12.927	12.857	12.987	BB	245590	2921225	74.98%	4.281%
12	13.095	13.027	13.155	BB	267596	3299529	84.69%	4.836%
13	13.681	13.590	13.743	BB	250378	3258558	83.64%	4.776%
14	14.781	14.712	14.855	BB	245027	3177702	81.56%	4.657%
15	15.801	15.730	15.872	BB	223856	3061261	78.57%	4.486%
16	16.748	16.663	16.823	BB	222546	2988500	76.71%	4.380%
17	17.635	17.578	17.697	BB	217007	3038323	77.99%	4.453%
18	18.465	18.343	18.528	VB	201712	2930784	75.23%	4.295%
19	19.247	19.180	19.317	BB	173564	2517007	64.61%	3.689%
20	19.984	19.932	20.025	BV	133807	2080234	53.39%	3.049%
21	20.706	20.575	20.768	BB	109828	1956058	50.21%	2.867%
22	21.587	21.403	21.708	BB	80516	2101655	53.94%	3.080%
			Sum of corrected areas:			68234191		

Aliphatic EPH 111424.M Fri Nov 15 03:29:46 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067751.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM ALIHPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 14 13:15:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:15:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.487	2050947	10.694 ug/ml
Spiked Amount	50.000		Recovery =	21.39%
12) S	1-chlorooctadecane (S...	12.925	1552495	10.822 ug/ml
Spiked Amount	50.000		Recovery =	21.64%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	1699554	10.510 ug/ml
2) T	n-Decane (C10)	4.334	1727323	10.479 ug/ml
3) T	A~Naphthalene (C11.7)	5.910	1904344	10.445 ug/ml
4) T	n-Dodecane (C12)	6.348	1755770	10.490 ug/ml
5) T	A~2-methylnaphthalene...	6.964	1839874	10.380 ug/ml
6) T	n-Tetradecane (C14)	8.139	1744653	10.478 ug/ml
7) T	n-Hexadecane (C16)	9.737	1816587	10.546 ug/ml
8) T	n-Octadecane (C18)	11.176	1866614	10.714 ug/ml
10) T	n-Eicosane (C20)	12.483	1808575	10.894 ug/ml
11) T	n-Heneicosane (C21)	13.094	1769034	10.920 ug/ml
13) T	n-Docosane (C22)	13.679	1749101	10.949 ug/ml
14) T	n-Tetracosane (C24)	14.780	1707779	10.952 ug/ml
15) T	n-Hexacosane (C26)	15.799	1641995	10.918 ug/ml
16) T	n-Octacosane (C28)	16.747	1593212	10.921 ug/ml
17) T	n-Tricontane (C30)	17.634	1615415	11.012 ug/ml
18) T	n-Dotriacontane (C32)	18.464	1566436	11.134 ug/ml
19) T	n-Tetratriacontane (C34)	19.246	1350731	11.126 ug/ml
20) T	n-Hexatriacontane (C36)	19.985	1081784	10.652 ug/ml
21) T	n-Octatriacontane (C38)	20.705	1043301	10.911 ug/ml
22) T	n-Tetracontane (C40)	21.587	898236	9.622 ug/ml

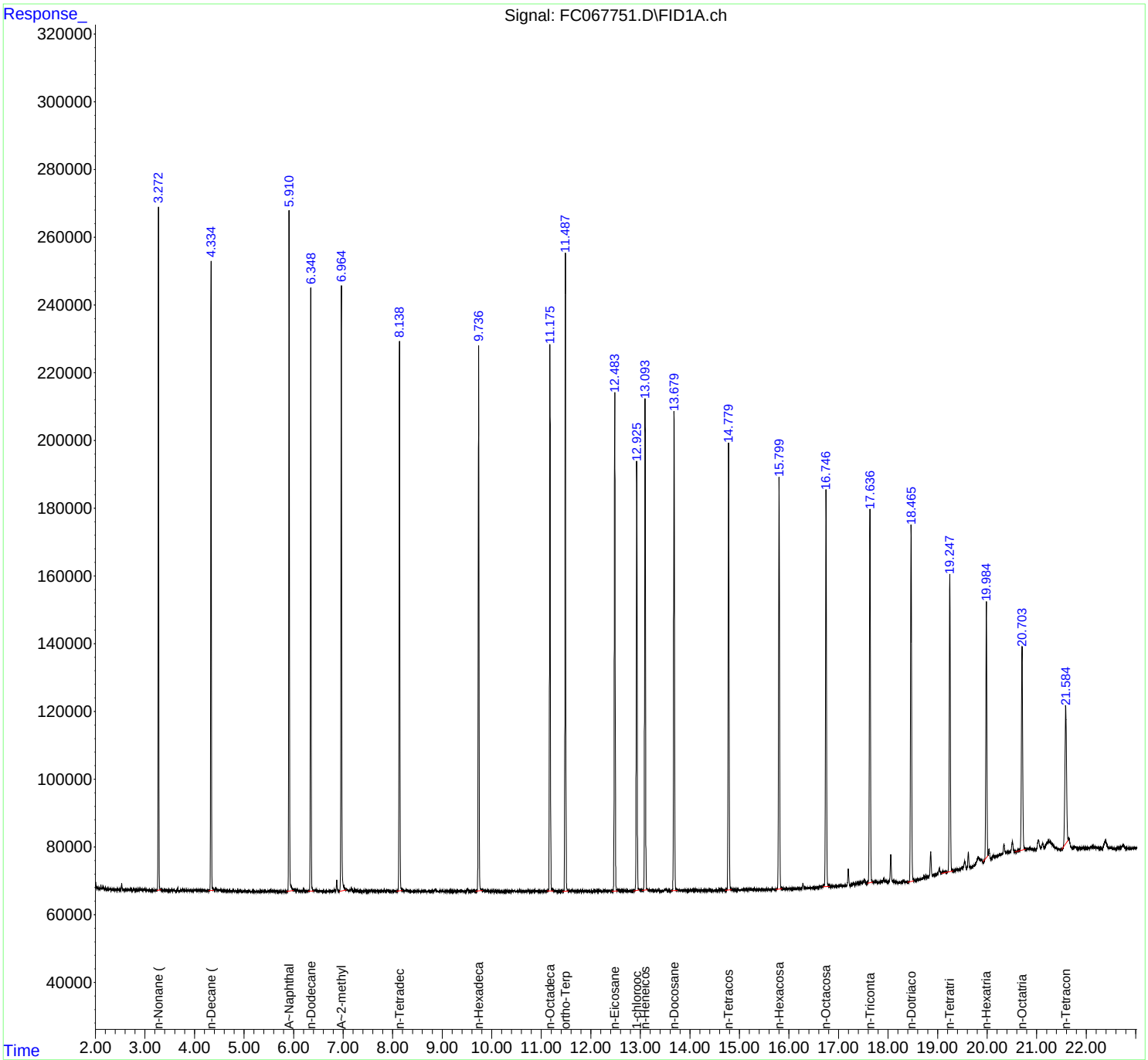
(f)=RT Delta > 1/2 Window (m)=manual int.

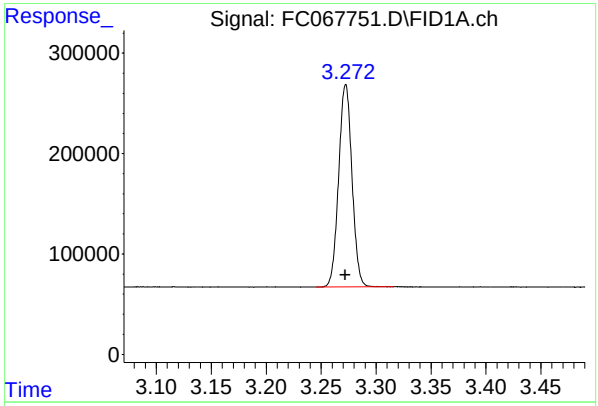
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067751.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM ALIHPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 14 13:15:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:15:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

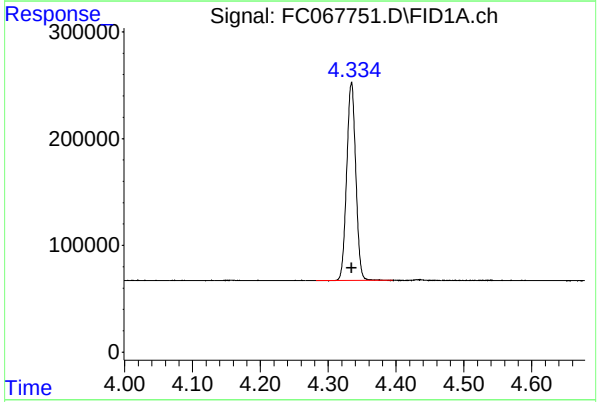




#1 n-Nonane (C9)

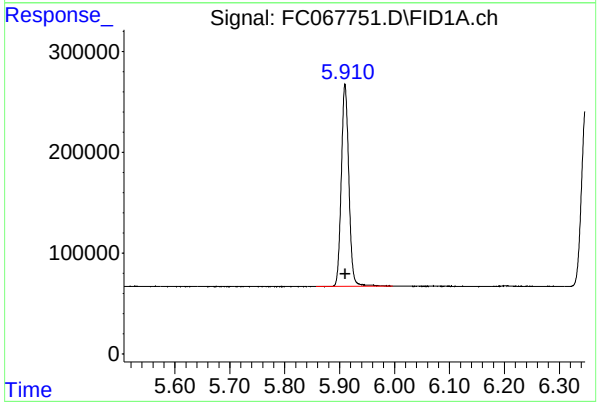
R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 1699554
Conc: 10.51 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4



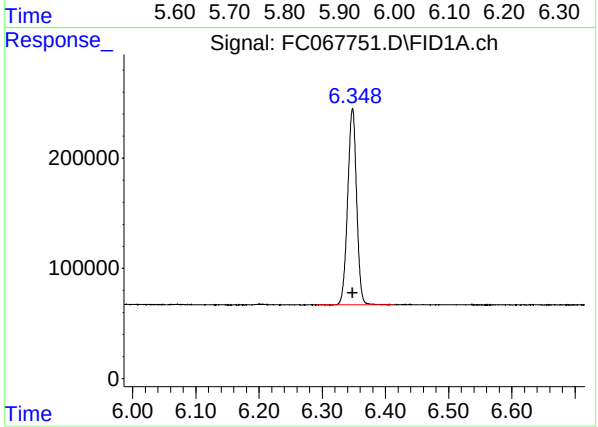
#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 1727323
Conc: 10.48 ug/ml



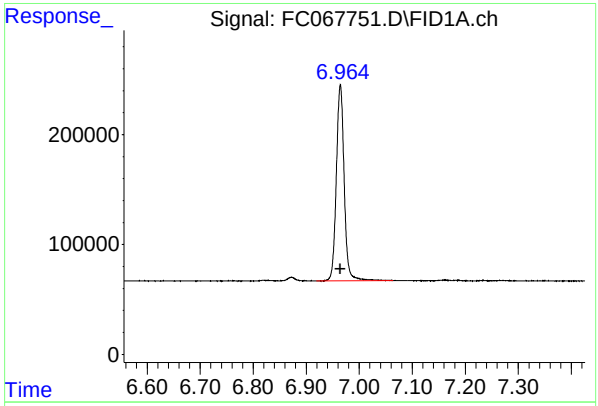
#3 A~Naphthalene (C11.7)

R.T.: 5.910 min
Delta R.T.: 0.000 min
Response: 1904344
Conc: 10.44 ug/ml



#4 n-Dodecane (C12)

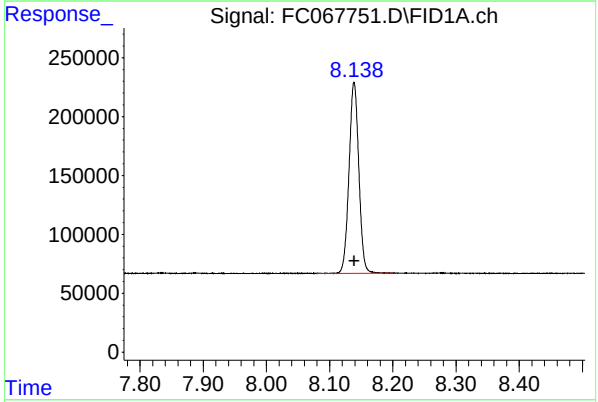
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 1755770
Conc: 10.49 ug/ml



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

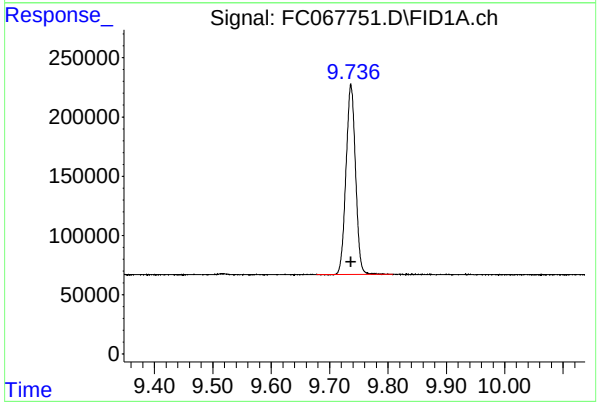
R.T.: 6.964 min
Delta R.T.: 0.000 min
Response: 1839874
Conc: 10.38 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4



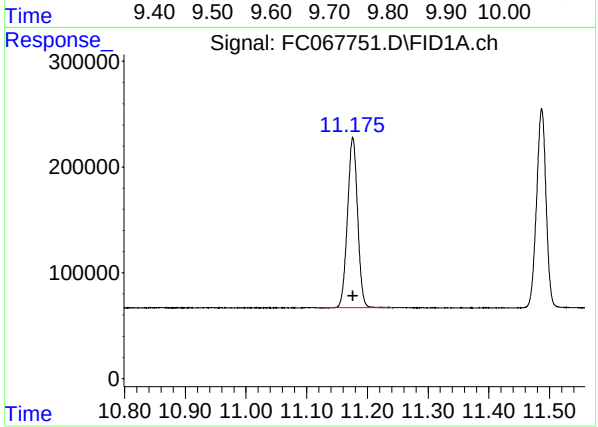
#6 n-Tetradecane (C14)

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 1744653
Conc: 10.48 ug/ml



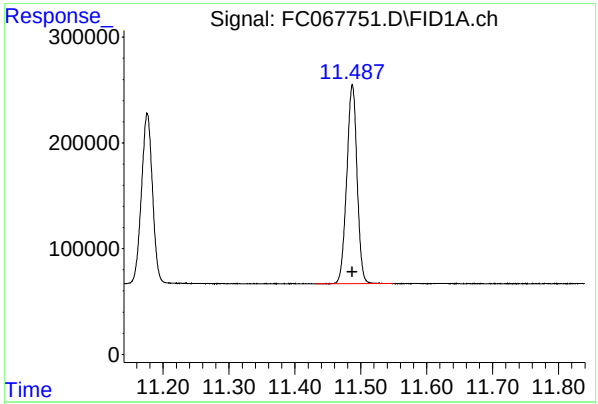
#7 n-Hexadecane (C16)

R.T.: 9.737 min
Delta R.T.: 0.000 min
Response: 1816587
Conc: 10.55 ug/ml



#8 n-Octadecane (C18)

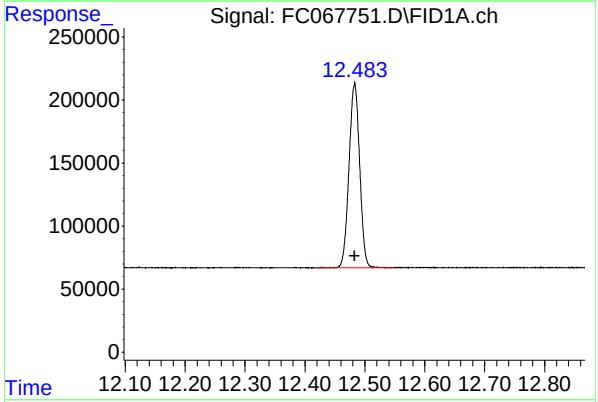
R.T.: 11.176 min
Delta R.T.: 0.000 min
Response: 1866614
Conc: 10.71 ug/ml



#9 ortho-Terphenyl (SURR)

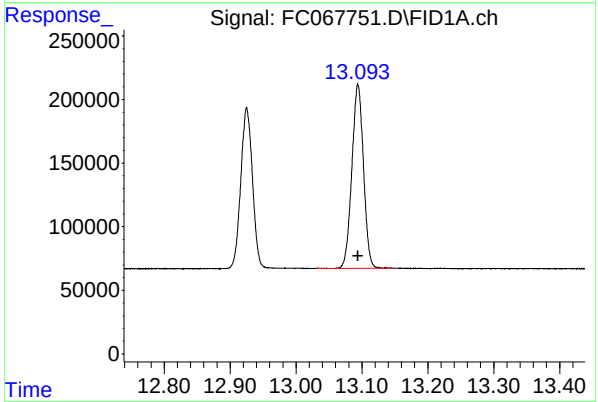
R.T.: 11.487 min
Delta R.T.: 0.000 min
Response: 2050947
Conc: 10.69 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4



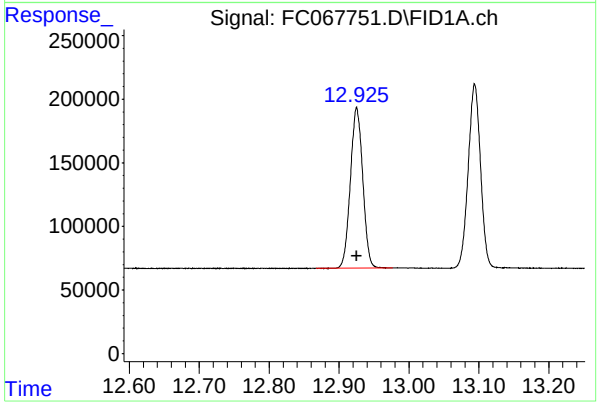
#10 n-Eicosane (C20)

R.T.: 12.483 min
Delta R.T.: 0.000 min
Response: 1808575
Conc: 10.89 ug/ml



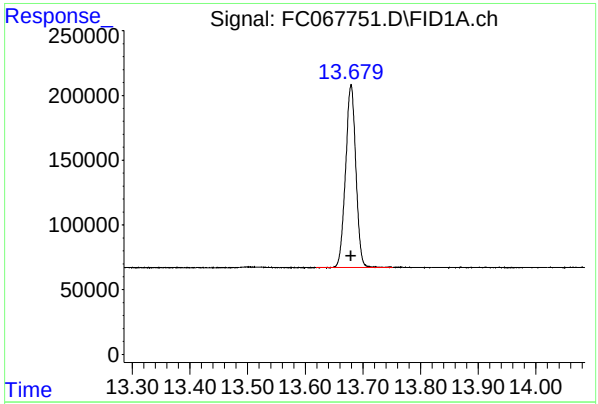
#11 n-Heneicosane (C21)

R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 1769034
Conc: 10.92 ug/ml



#12 1-chlorooctadecane (SURR)

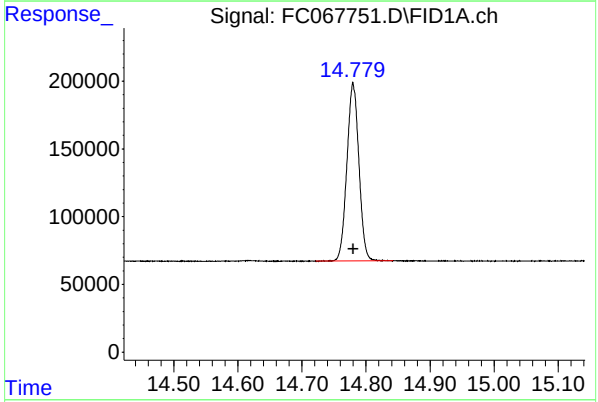
R.T.: 12.925 min
Delta R.T.: 0.000 min
Response: 1552495
Conc: 10.82 ug/ml



#13 n-Docosane (C22)

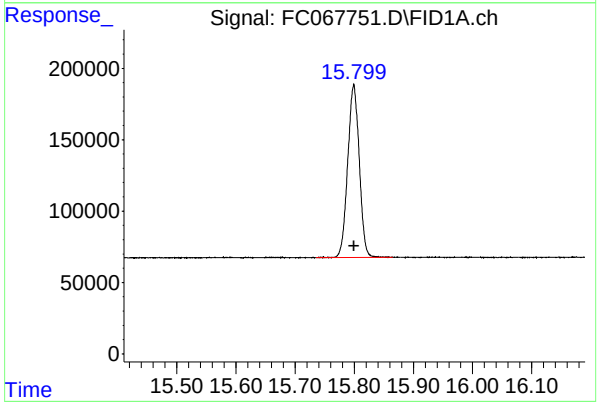
R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 1749101
Conc: 10.95 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4



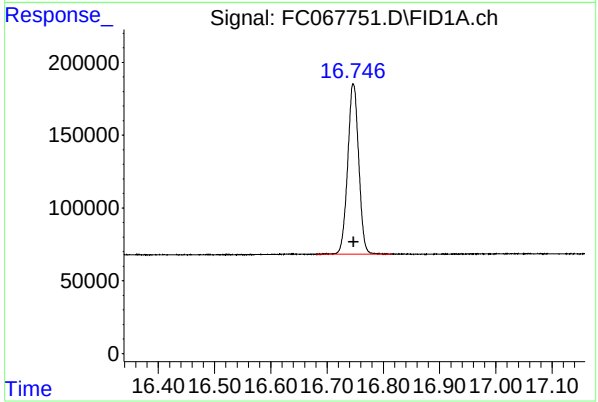
#14 n-Tetracosane (C24)

R.T.: 14.780 min
Delta R.T.: 0.000 min
Response: 1707779
Conc: 10.95 ug/ml



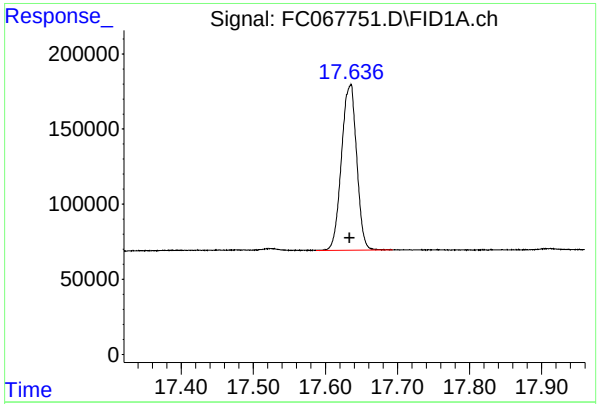
#15 n-Hexacosane (C26)

R.T.: 15.799 min
Delta R.T.: 0.000 min
Response: 1641995
Conc: 10.92 ug/ml



#16 n-Octacosane (C28)

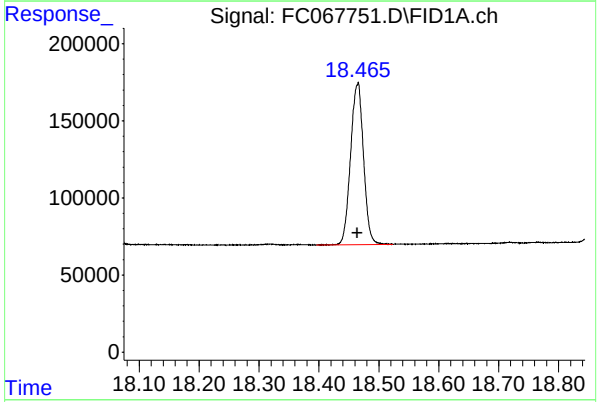
R.T.: 16.747 min
Delta R.T.: 0.000 min
Response: 1593212
Conc: 10.92 ug/ml



#17 n-Tricontane (C30)

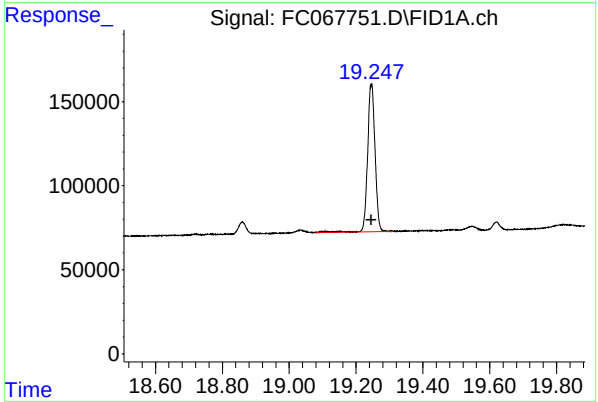
R.T.: 17.634 min
Delta R.T.: 0.000 min
Response: 1615415
Conc: 11.01 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4



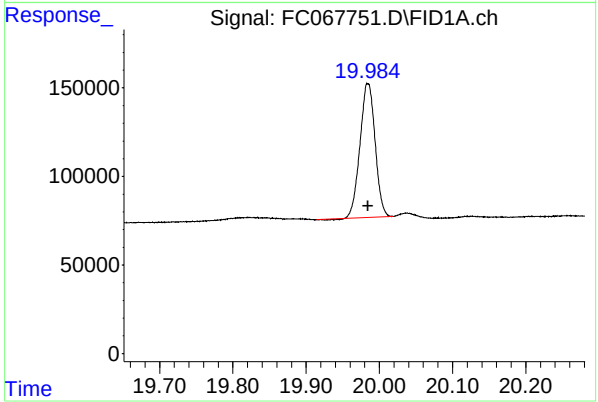
#18 n-Dotriacontane (C32)

R.T.: 18.464 min
Delta R.T.: 0.000 min
Response: 1566436
Conc: 11.13 ug/ml



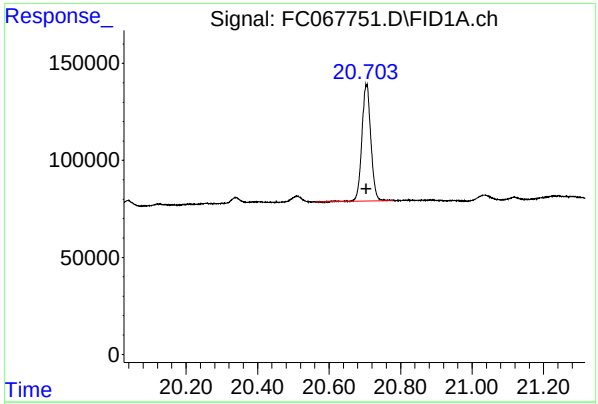
#19 n-Tetratriacontane (C34)

R.T.: 19.246 min
Delta R.T.: 0.000 min
Response: 1350731
Conc: 11.13 ug/ml



#20 n-Hexatriacontane (C36)

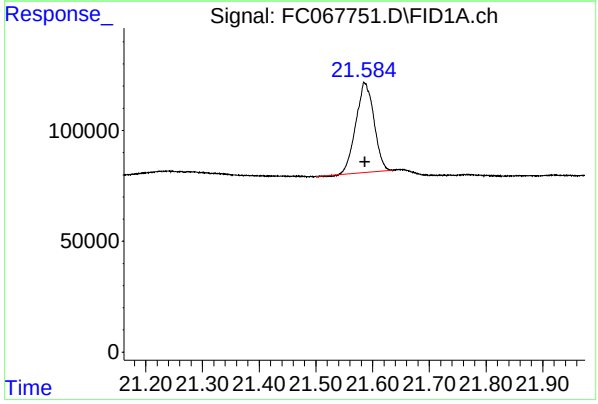
R.T.: 19.985 min
Delta R.T.: 0.000 min
Response: 1081784
Conc: 10.65 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.705 min
Delta R.T.: 0.000 min
Response: 1043301
Conc: 10.91 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIHPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.587 min
Delta R.T.: 0.000 min
Response: 898236
Conc: 9.62 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067751.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 12:27
Sample : 10 PPM ALIHPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.245	3.315	BB	201392	1699554	82.87%	4.750%
2	4.334	4.282	4.395	BB	184772	1727323	84.22%	4.827%
3	5.910	5.857	5.997	BB	200085	1904344	92.85%	5.322%
4	6.348	6.290	6.412	BB	179174	1755770	85.61%	4.907%
5	6.964	6.919	7.064	BB	178091	1839874	89.71%	5.142%
6	8.139	8.079	8.200	BB	162189	1744653	85.07%	4.876%
7	9.737	9.677	9.809	BB	160226	1816587	88.57%	5.077%
8	11.176	11.115	11.242	BB	161006	1866614	91.01%	5.216%
9	11.487	11.432	11.549	BB	188405	2050947	100.00%	5.732%
10	12.483	12.419	12.547	BB	147330	1808575	88.18%	5.054%
11	12.925	12.867	12.977	BB	126208	1552495	75.70%	4.339%
12	13.094	13.030	13.147	BB	144889	1769034	86.25%	4.944%
13	13.679	13.619	13.752	BB	140684	1749101	85.28%	4.888%
14	14.780	14.722	14.842	BB	130778	1707779	83.27%	4.772%
15	15.799	15.735	15.865	BB	120759	1641995	80.06%	4.589%
16	16.747	16.680	16.817	BB	116868	1593212	77.68%	4.452%
17	17.634	17.587	17.694	BB	109291	1615415	78.76%	4.514%
18	18.464	18.395	18.524	BB	103977	1566436	76.38%	4.378%
19	19.246	19.080	19.310	BB	87049	1350731	65.86%	3.775%
20	19.985	19.914	20.019	BV	75557	1081784	52.75%	3.023%
21	20.705	20.564	20.779	BB	59219	1043301	50.87%	2.916%
22	21.587	21.500	21.636	BV	39943	898236	43.80%	2.510%
			Sum of corrected areas:			35783760		

Aliphatic EPH 111424.M Fri Nov 15 03:30:12 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067752.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:03
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

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:12:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:12:01 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.486	1011043	5.215 ug/ml
Spiked Amount	50.000		Recovery =	10.43%
12) S	1-chlorooctadecane (S...	12.926	759794	5.234 ug/ml
Spiked Amount	50.000		Recovery =	10.47%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	843654	5.172 ug/ml
2) T	n-Decane (C10)	4.334	849229	5.121 ug/ml
3) T	A~Naphthalene (C11.7)	5.911	932344	5.090 ug/ml
4) T	n-Dodecane (C12)	6.348	863286	5.126 ug/ml
5) T	A~2-methylnaphthalene...	6.965	888961	5.012 ug/ml
6) T	n-Tetradecane (C14)	8.139	856517	5.114 ug/ml
7) T	n-Hexadecane (C16)	9.737	887432	5.121 ug/ml
8) T	n-Octadecane (C18)	11.176	913982	5.195 ug/ml
10) T	n-Eicosane (C20)	12.482	889327	5.281 ug/ml
11) T	n-Heneicosane (C21)	13.094	873353	5.308 ug/ml
13) T	n-Docosane (C22)	13.679	876194	5.380 ug/ml
14) T	n-Tetracosane (C24)	14.780	890863	5.555 ug/ml
15) T	n-Hexacosane (C26)	15.799	863791	5.578 ug/ml
16) T	n-Octacosane (C28)	16.747	857935	5.681 ug/ml
17) T	n-Tricontane (C30)	17.633	893915	5.838 ug/ml
18) T	n-Dotriacontane (C32)	18.465	878383	5.947 ug/ml
19) T	n-Tetratriacontane (C34)	19.245	725252	5.750 ug/ml
20) T	n-Hexatriacontane (C36)	19.986	583478	5.580 ug/mlm
21) T	n-Octatriacontane (C38)	20.705	529758	5.423 ug/ml
22) T	n-Tetracontane (C40)	21.585	569616	5.844 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067752.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:03
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

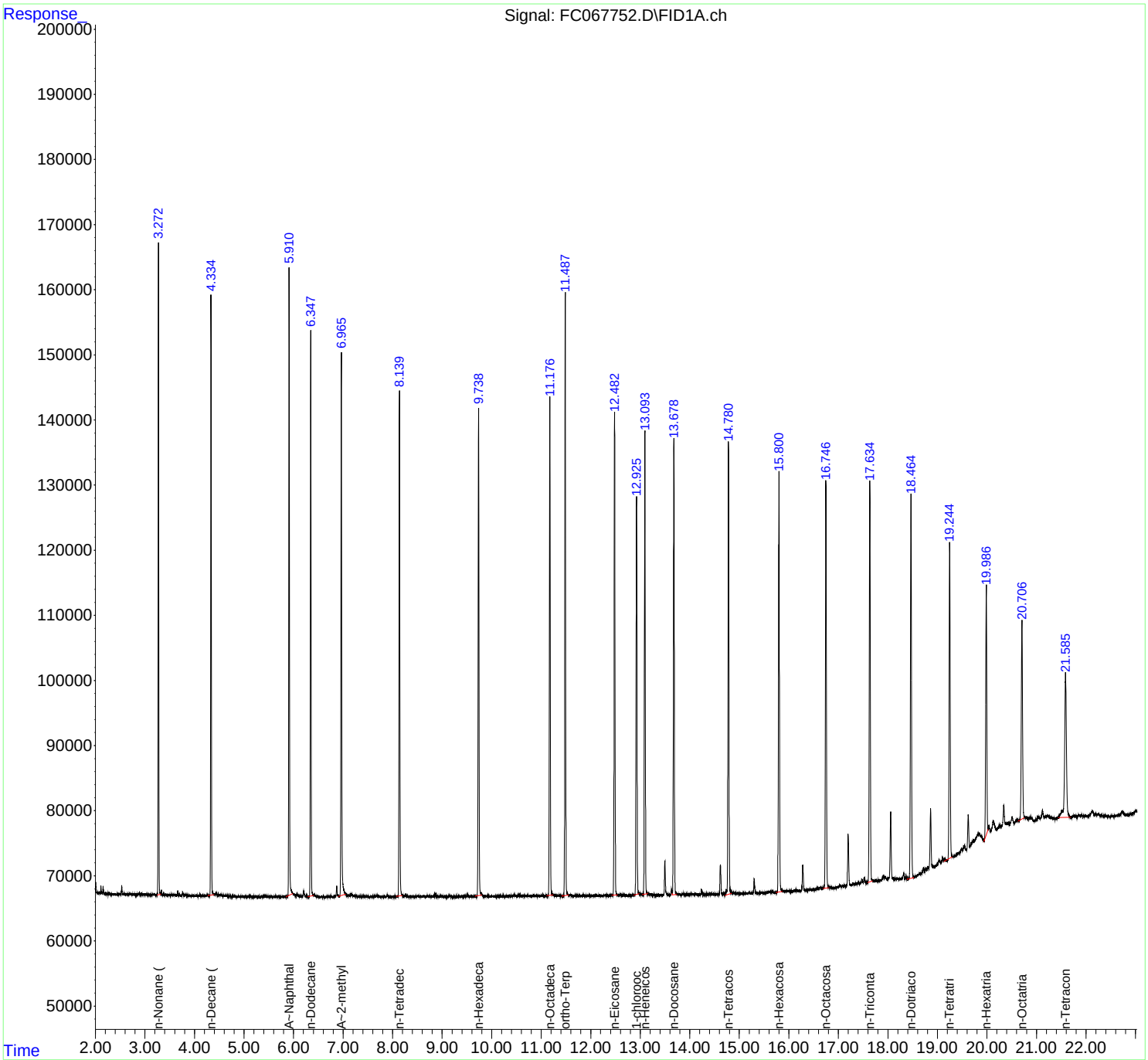
Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

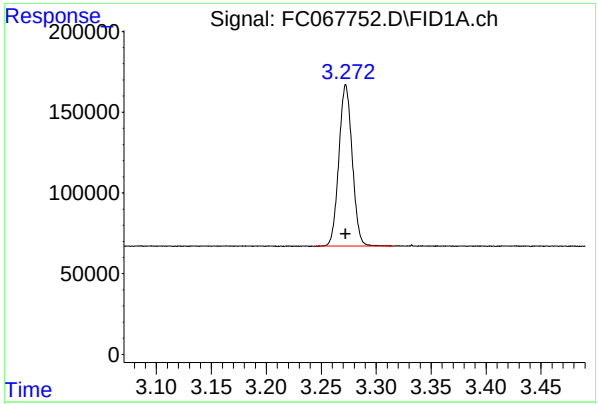
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:12:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:12:01 2024
Response via : Initial Calibration
Integrator: ChemStation

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





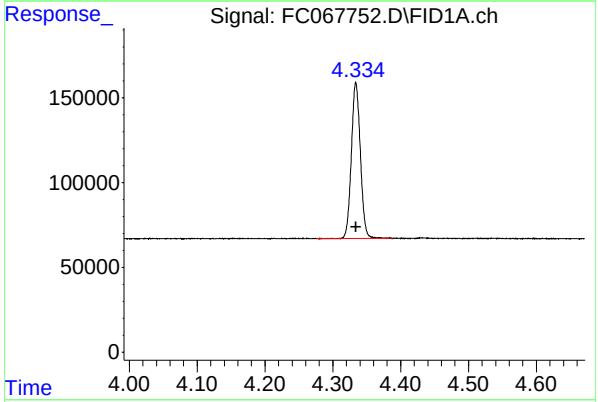
#1 n-Nonane (C9)

R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 843654
Conc: 5.17 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

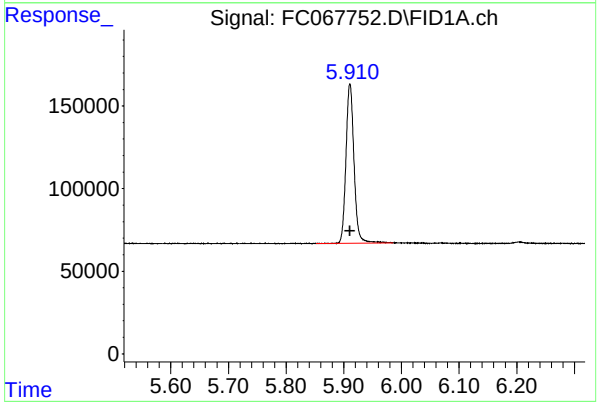
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



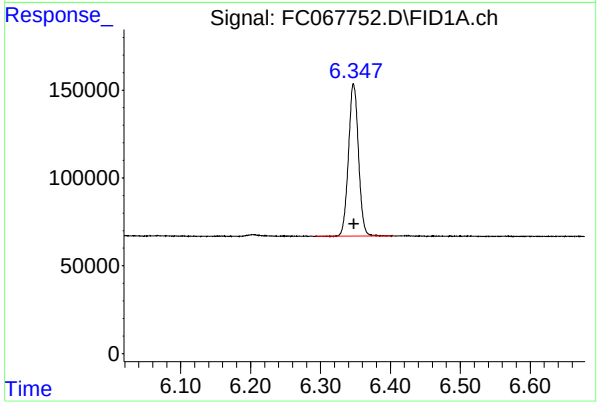
#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 849229
Conc: 5.12 ug/ml



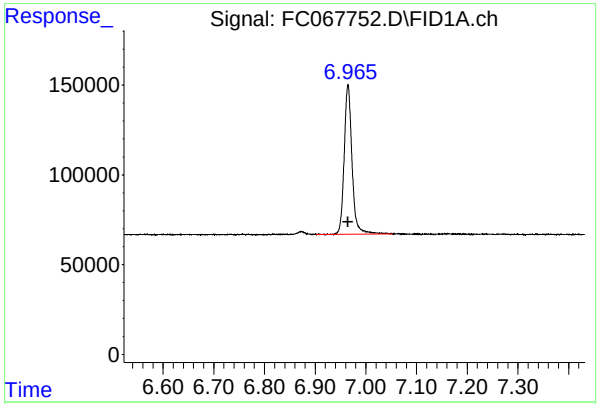
#3 A~Naphthalene (C11.7)

R.T.: 5.911 min
Delta R.T.: 0.000 min
Response: 932344
Conc: 5.09 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 863286
Conc: 5.13 ug/ml



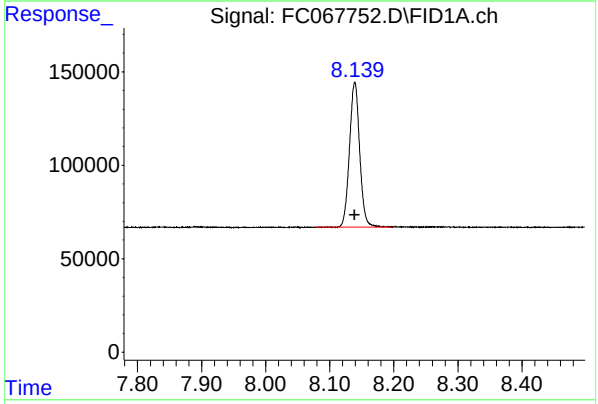
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.965 min
Delta R.T.: 0.000 min
Response: 888961
Conc: 5.01 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

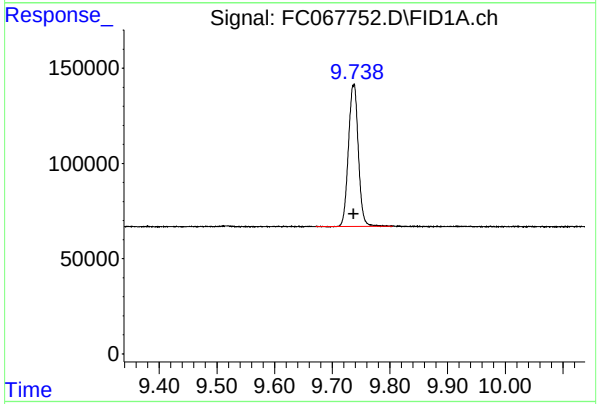
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



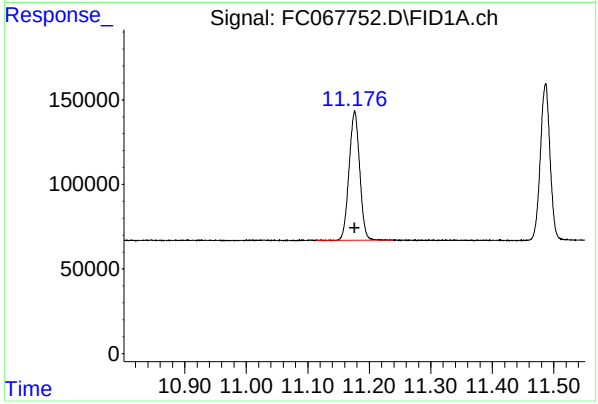
#6 n-Tetradecane (C14)

R.T.: 8.139 min
Delta R.T.: 0.000 min
Response: 856517
Conc: 5.11 ug/ml



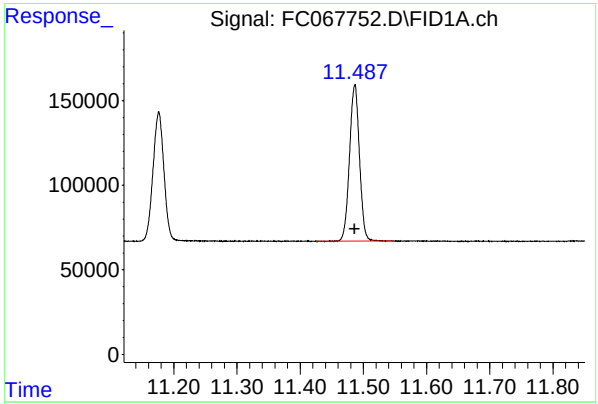
#7 n-Hexadecane (C16)

R.T.: 9.737 min
Delta R.T.: 0.000 min
Response: 887432
Conc: 5.12 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.176 min
Delta R.T.: 0.000 min
Response: 913982
Conc: 5.19 ug/ml



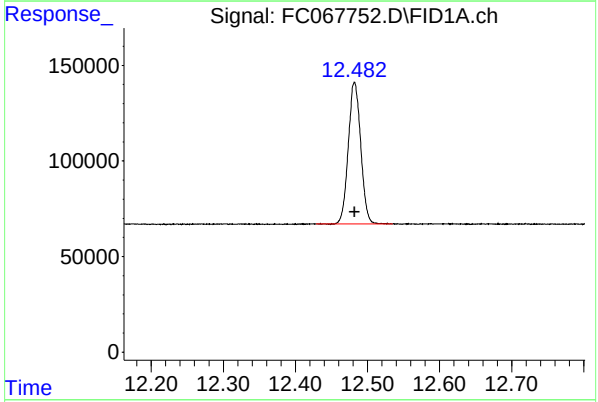
#9 ortho-Terphenyl (SURR)

R.T.: 11.486 min
Delta R.T.: 0.000 min
Response: 1011043
Conc: 5.21 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

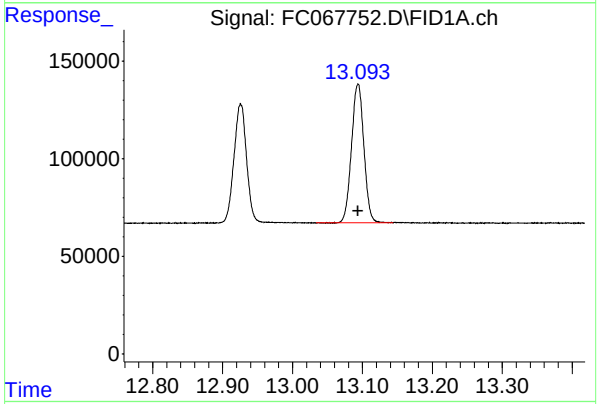
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



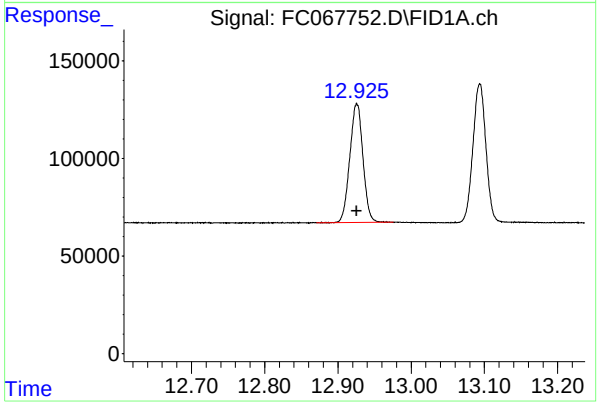
#10 n-Eicosane (C20)

R.T.: 12.482 min
Delta R.T.: 0.000 min
Response: 889327
Conc: 5.28 ug/ml



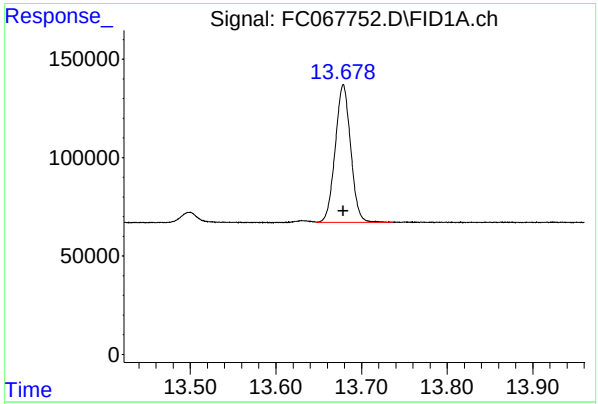
#11 n-Heneicosane (C21)

R.T.: 13.094 min
Delta R.T.: 0.000 min
Response: 873353
Conc: 5.31 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.926 min
Delta R.T.: 0.000 min
Response: 759794
Conc: 5.23 ug/ml



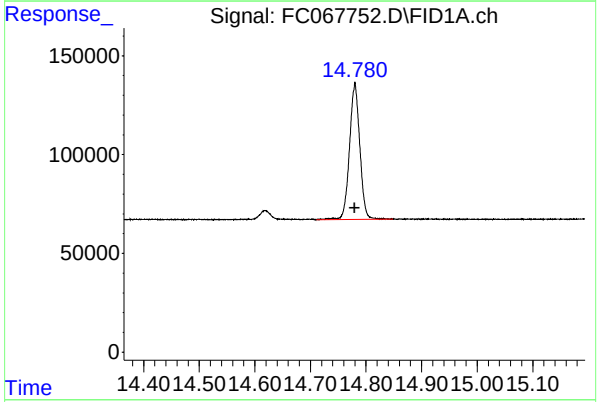
#13 n-Docosane (C22)

R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 876194
Conc: 5.38 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

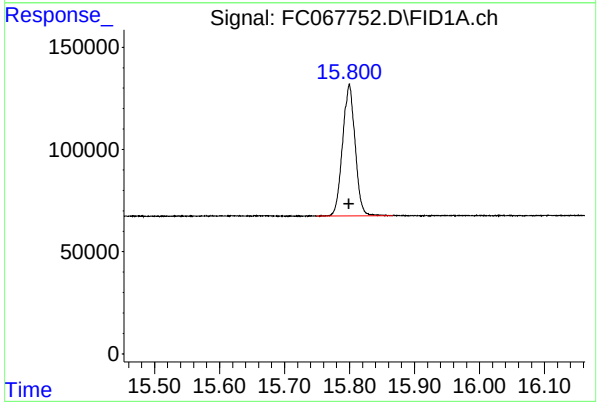
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



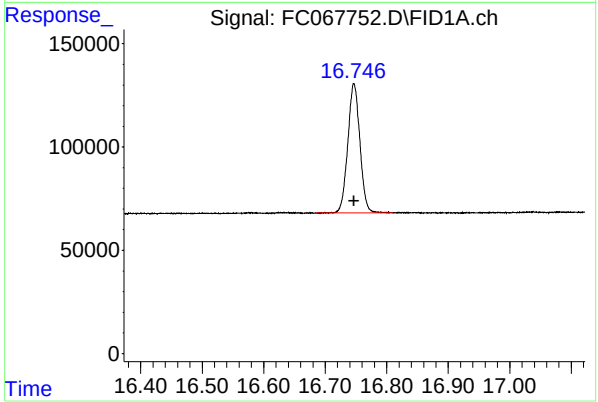
#14 n-Tetracosane (C24)

R.T.: 14.780 min
Delta R.T.: 0.000 min
Response: 890863
Conc: 5.55 ug/ml



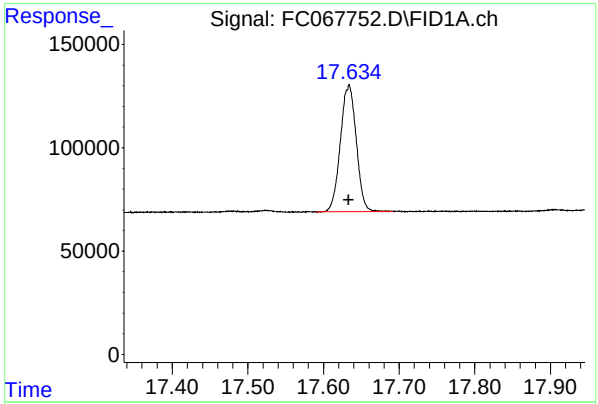
#15 n-Hexacosane (C26)

R.T.: 15.799 min
Delta R.T.: 0.000 min
Response: 863791
Conc: 5.58 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.747 min
Delta R.T.: 0.000 min
Response: 857935
Conc: 5.68 ug/ml



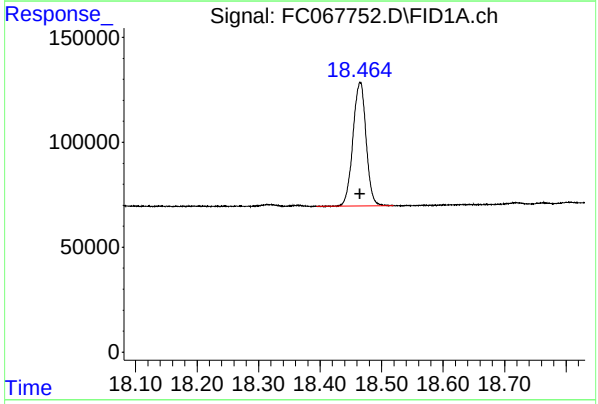
#17 n-Tricontane (C30)

R.T.: 17.633 min
Delta R.T.: 0.000 mi
Response: 893915
Conc: 5.84 ug/m

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

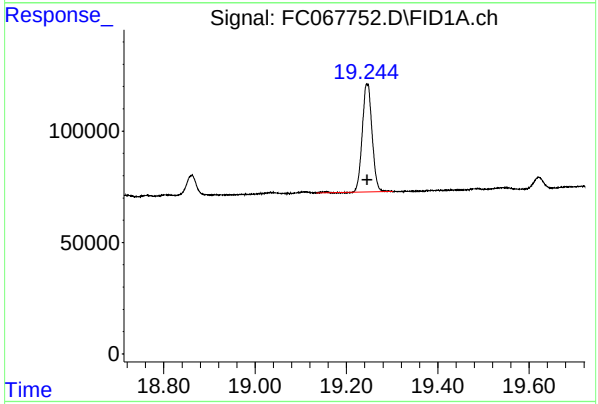
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



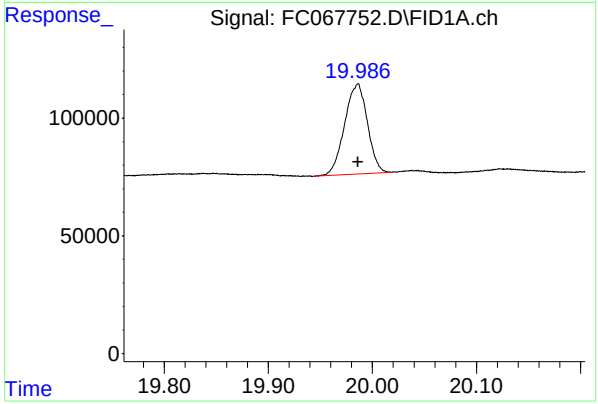
#18 n-Dotriacontane (C32)

R.T.: 18.465 min
Delta R.T.: 0.000 min
Response: 878383
Conc: 5.95 ug/ml



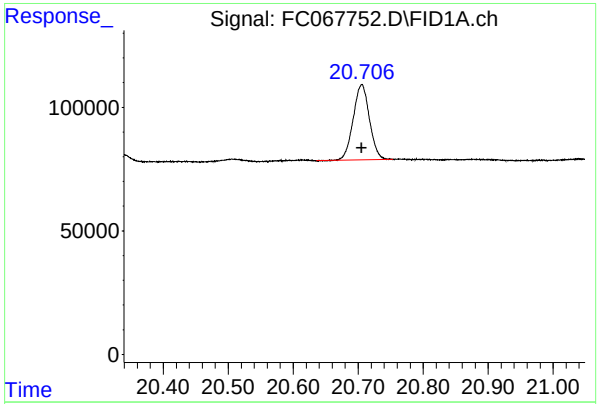
#19 n-Tetratriacontane (C34)

R.T.: 19.245 min
Delta R.T.: 0.000 min
Response: 725252
Conc: 5.75 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.986 min
Delta R.T.: 0.000 min
Response: 583478
Conc: 5.58 ug/ml m



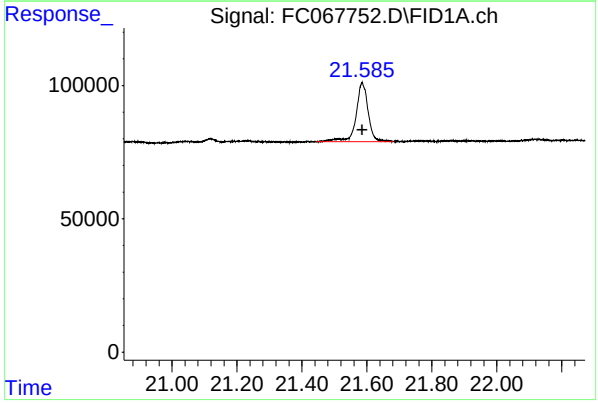
#21 n-Octatriacontane (C38)

R.T.: 20.705 min
Delta R.T.: 0.000 min
Response: 529758
Conc: 5.42 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



#22 n-Tetracontane (C40)

R.T.: 21.585 min
Delta R.T.: 0.000 min
Response: 569616
Conc: 5.84 ug/ml

rteres

Instrument :
FID_C
LabSampleId :
5 PPM ALIPHATIC HC STD5

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11142
Data File : FC067752.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:03
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 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.245	3.315	BB	99725	843654	83.44%	4.631%
2	4.334	4.275	4.389	BB	91882	849229	84.00%	4.661%
3	5.911	5.852	5.985	BB	96582	932344	92.22%	5.118%
4	6.348	6.294	6.404	BB	86656	863286	85.39%	4.739%
5	6.965	6.902	7.054	BB	83408	888961	87.93%	4.880%
6	8.139	8.079	8.199	BB	77381	856517	84.72%	4.701%
7	9.737	9.672	9.805	BB	74117	887432	87.77%	4.871%
8	11.176	11.114	11.239	BB	76599	913982	90.40%	5.017%
9	11.486	11.425	11.547	BB	92885	1011043	100.00%	5.550%
10	12.482	12.429	12.535	BB	73997	889327	87.96%	4.882%
11	12.926	12.870	12.975	BB	60743	759794	75.15%	4.171%
12	13.094	13.034	13.144	BB	71100	873353	86.38%	4.794%
13	13.679	13.647	13.737	VB	69955	876194	86.66%	4.809%
14	14.780	14.710	14.849	BB	69378	890863	88.11%	4.890%
15	15.799	15.749	15.867	BB	64631	863791	85.44%	4.741%
16	16.747	16.685	16.810	BB	62562	857935	84.86%	4.709%
17	17.633	17.590	17.692	BB	61372	893915	88.42%	4.907%
18	18.465	18.394	18.519	BB	59084	878383	86.88%	4.822%
19	19.245	19.134	19.302	BB	48182	725252	71.73%	3.981%
20	19.985	19.915	20.019	BV	37829	563385	55.72%	3.092%
21	20.705	20.635	20.754	BB	30516	529758	52.40%	2.908%
22	21.585	21.444	21.680	BB	22241	569616	56.34%	3.127%
			Sum of corrected areas:			18218016		

Aliphatic EPH 111424.M Fri Nov 15 03:30:38 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067753.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:49
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: Nov 14 16:43:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.490	3947572	20.361 ug/ml
Spiked Amount	50.000		Recovery =	40.72%
12) S	1-chlorooctadecane (S...	12.928	2977474	20.512 ug/ml
Spiked Amount	50.000		Recovery =	41.02%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3273252	20.067 ug/ml
2) T	n-Decane (C10)	4.334	3340748	20.145 ug/ml
3) T	A~Naphthalene (C11.7)	5.911	3690809	20.151 ug/ml
4) T	n-Dodecane (C12)	6.348	3400656	20.191 ug/ml
5) T	A~2-methylnaphthalene...	6.965	3590183	20.243 ug/ml
6) T	n-Tetradecane (C14)	8.140	3396495	20.281 ug/ml
7) T	n-Hexadecane (C16)	9.738	3529343	20.366 ug/ml
8) T	n-Octadecane (C18)	11.179	3598310	20.452 ug/ml
10) T	n-Eicosane (C20)	12.485	3453724	20.511 ug/ml
11) T	n-Heneicosane (C21)	13.097	3372726	20.498 ug/ml
13) T	n-Docosane (C22)	13.682	3336664	20.489 ug/ml
14) T	n-Tetracosane (C24)	14.782	3259223	20.322 ug/ml
15) T	n-Hexacosane (C26)	15.801	3138531	20.267 ug/ml
16) T	n-Octacosane (C28)	16.750	3091639	20.471 ug/ml
17) T	n-Tricontane (C30)	17.635	3156621	20.617 ug/ml
18) T	n-Dotriacontane (C32)	18.466	3113422	21.081 ug/ml
19) T	n-Tetratriacontane (C34)	19.248	2614033	20.725 ug/ml
20) T	n-Hexatriacontane (C36)	19.986	2189342	20.933 ug/ml
21) T	n-Octatriacontane (C38)	20.708	1993396	20.407 ug/ml
22) T	n-Tetracontane (C40)	21.591	1922623	19.726 ug/ml

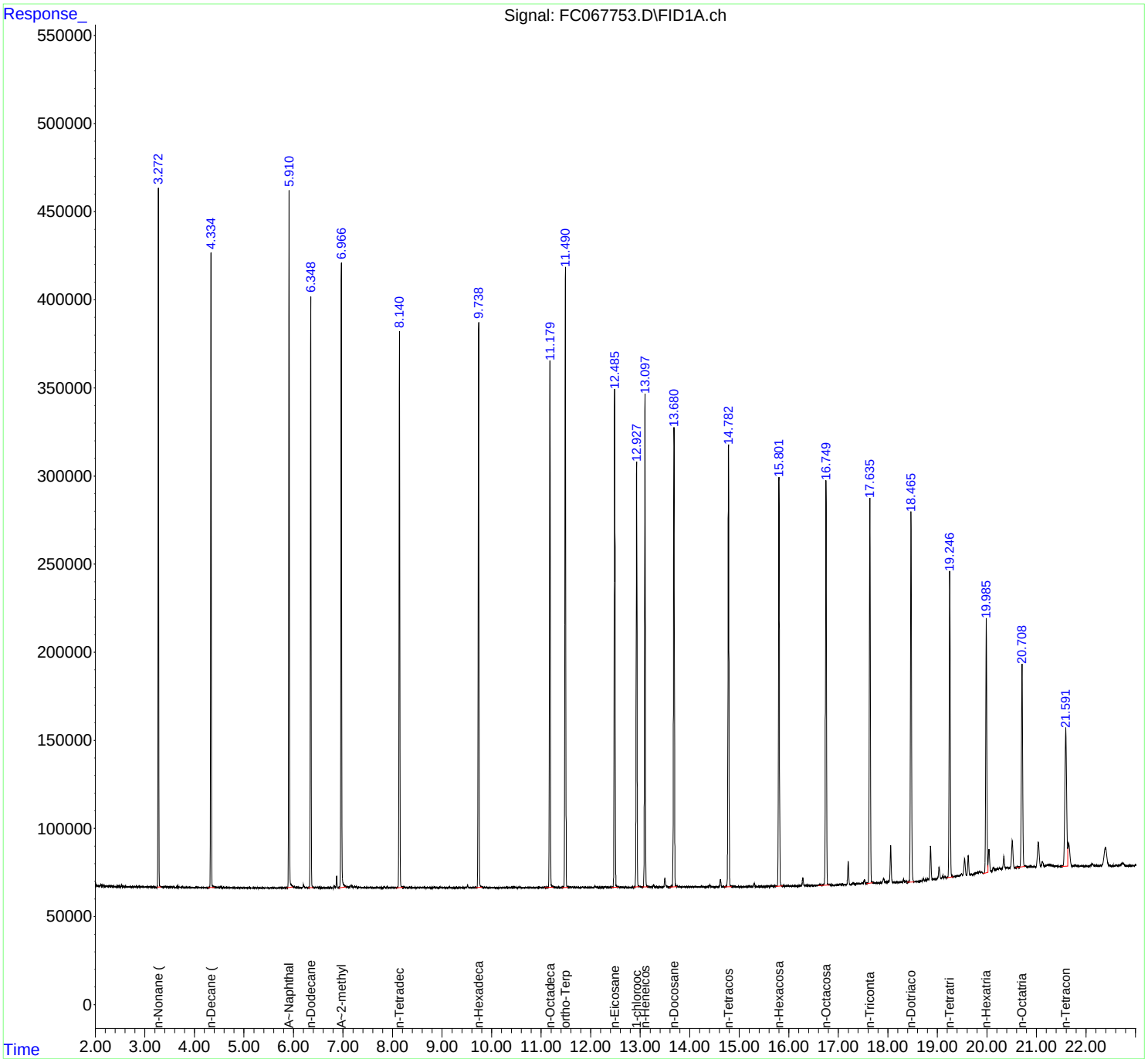
(f)=RT Delta > 1/2 Window (m)=manual int.

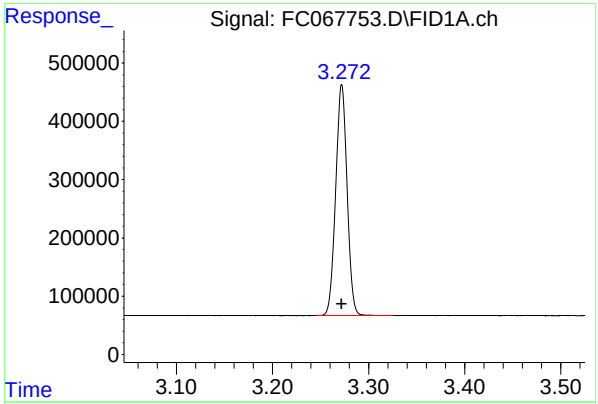
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067753.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:49
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:43:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

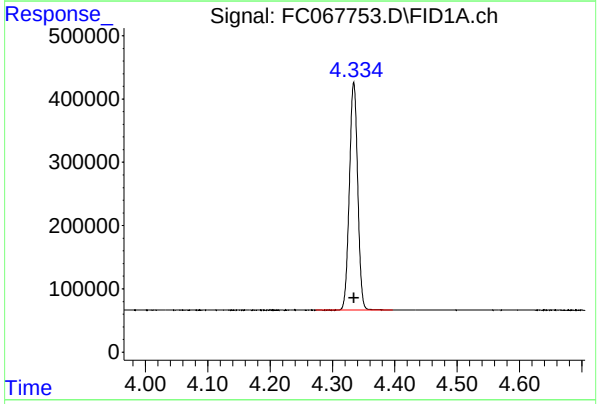




#1 n-Nonane (C9)

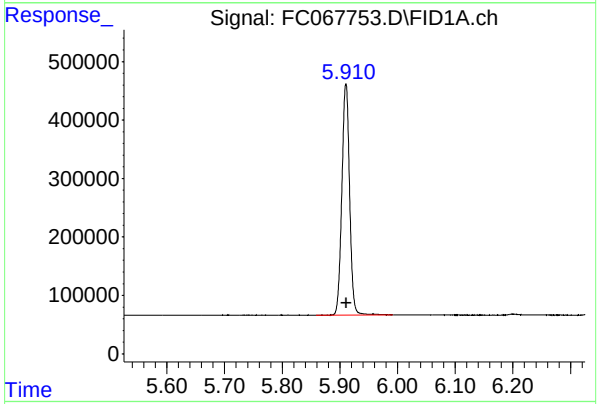
R.T.: 3.272 min
Delta R.T.: 0.000 min
Response: 3273252
Conc: 20.07 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



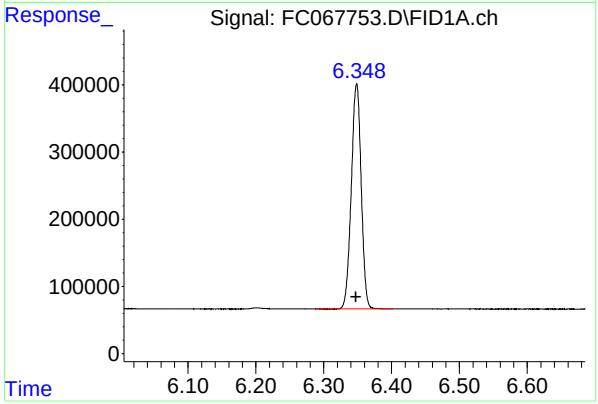
#2 n-Decane (C10)

R.T.: 4.334 min
Delta R.T.: 0.000 min
Response: 3340748
Conc: 20.15 ug/ml



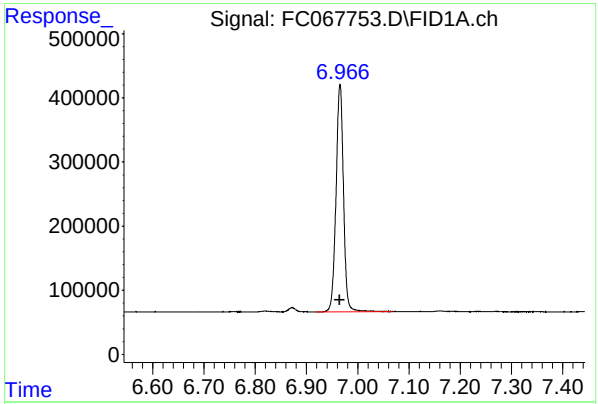
#3 A~Naphthalene (C11.7)

R.T.: 5.911 min
Delta R.T.: 0.000 min
Response: 3690809
Conc: 20.15 ug/ml



#4 n-Dodecane (C12)

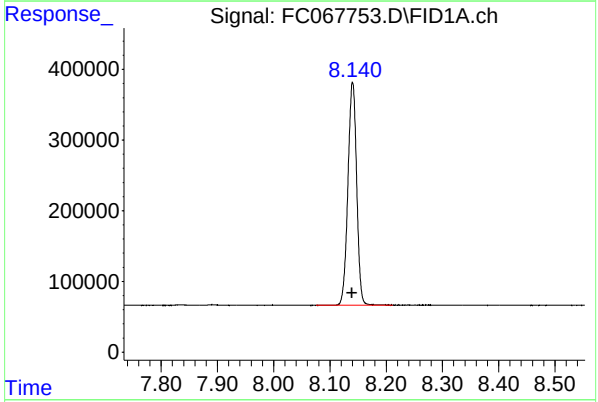
R.T.: 6.348 min
Delta R.T.: 0.000 min
Response: 3400656
Conc: 20.19 ug/ml



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

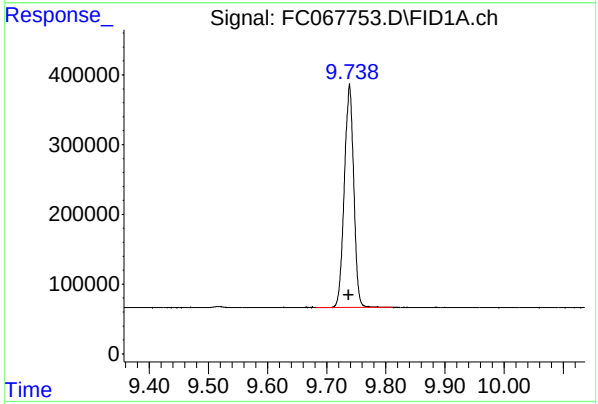
R.T.: 6.965 min
Delta R.T.: 0.000 min
Response: 3590183
Conc: 20.24 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



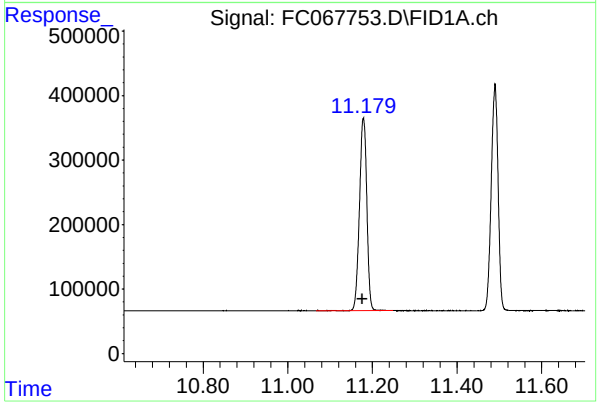
#6 n-Tetradecane (C14)

R.T.: 8.140 min
Delta R.T.: 0.001 min
Response: 3396495
Conc: 20.28 ug/ml



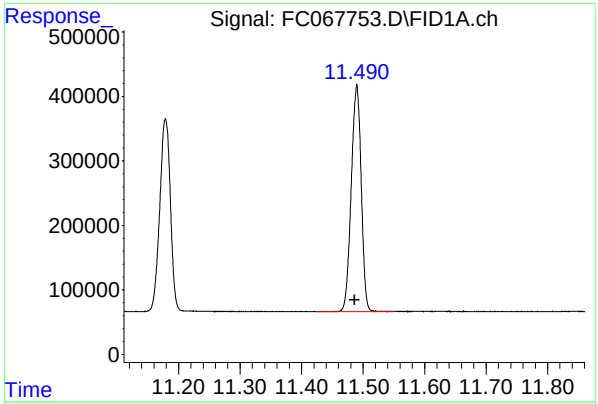
#7 n-Hexadecane (C16)

R.T.: 9.738 min
Delta R.T.: 0.001 min
Response: 3529343
Conc: 20.37 ug/ml



#8 n-Octadecane (C18)

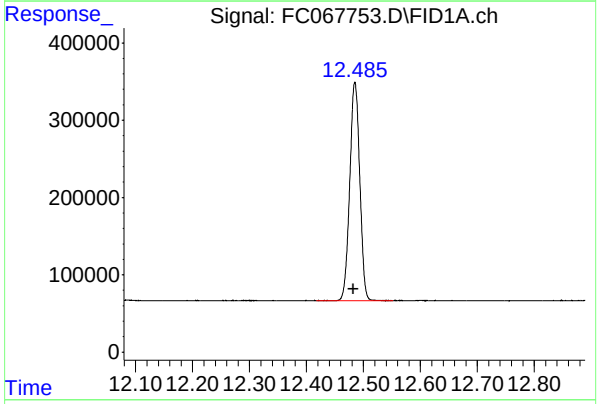
R.T.: 11.179 min
Delta R.T.: 0.003 min
Response: 3598310
Conc: 20.45 ug/ml



#9 ortho-Terphenyl (SURR)

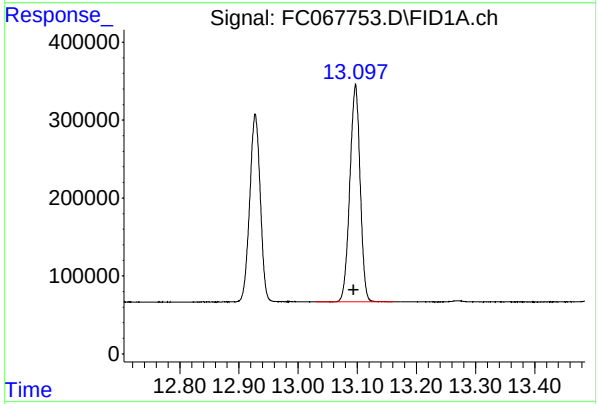
R.T.: 11.490 min
Delta R.T.: 0.003 min
Response: 3947572
Conc: 20.36 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



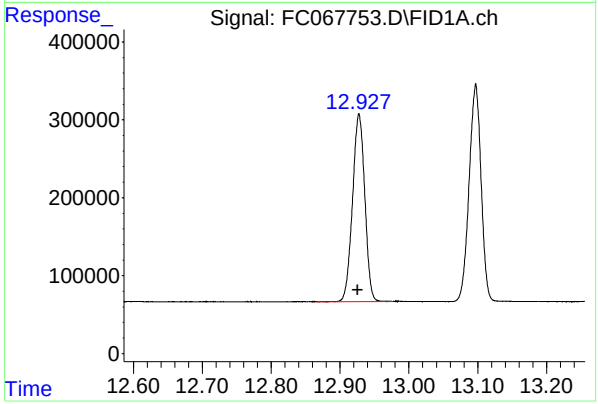
#10 n-Eicosane (C20)

R.T.: 12.485 min
Delta R.T.: 0.003 min
Response: 3453724
Conc: 20.51 ug/ml



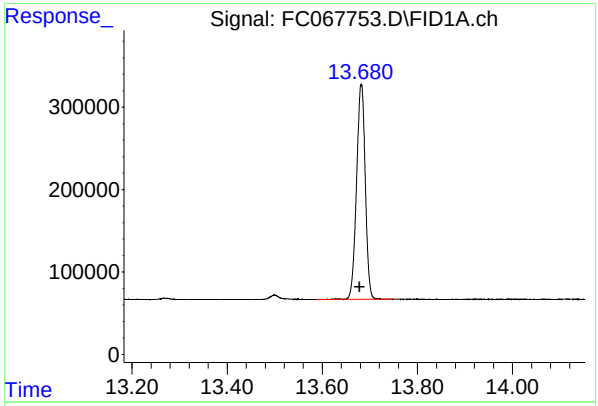
#11 n-Heneicosane (C21)

R.T.: 13.097 min
Delta R.T.: 0.003 min
Response: 3372726
Conc: 20.50 ug/ml



#12 1-chlorooctadecane (SURR)

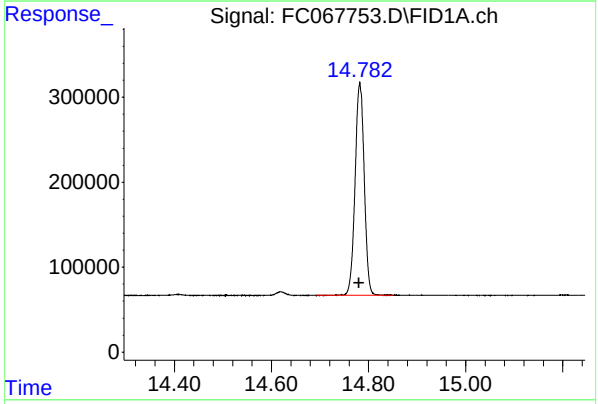
R.T.: 12.928 min
Delta R.T.: 0.002 min
Response: 2977474
Conc: 20.51 ug/ml



#13 n-Docosane (C22)

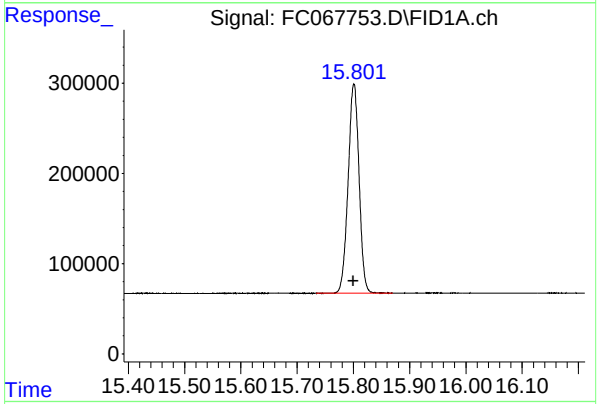
R.T.: 13.682 min
Delta R.T.: 0.003 min
Response: 3336664
Conc: 20.49 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



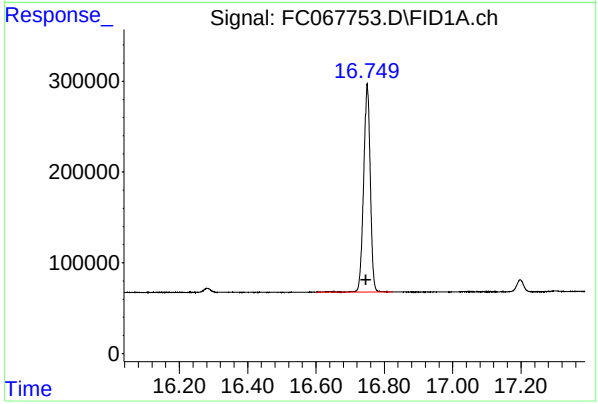
#14 n-Tetracosane (C24)

R.T.: 14.782 min
Delta R.T.: 0.002 min
Response: 3259223
Conc: 20.32 ug/ml



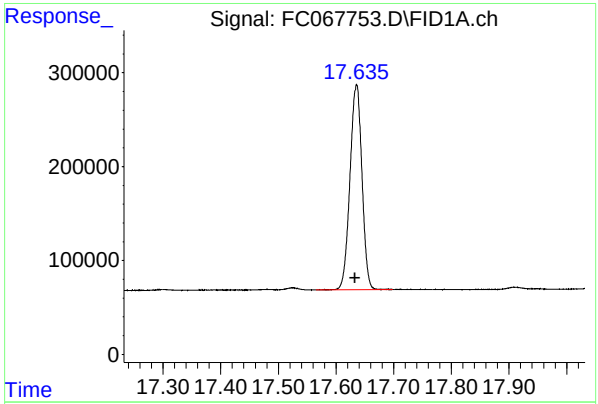
#15 n-Hexacosane (C26)

R.T.: 15.801 min
Delta R.T.: 0.001 min
Response: 3138531
Conc: 20.27 ug/ml



#16 n-Octacosane (C28)

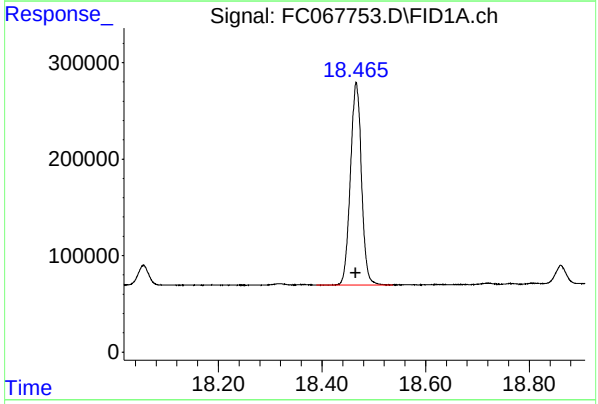
R.T.: 16.750 min
Delta R.T.: 0.003 min
Response: 3091639
Conc: 20.47 ug/ml



#17 n-Tricontane (C30)

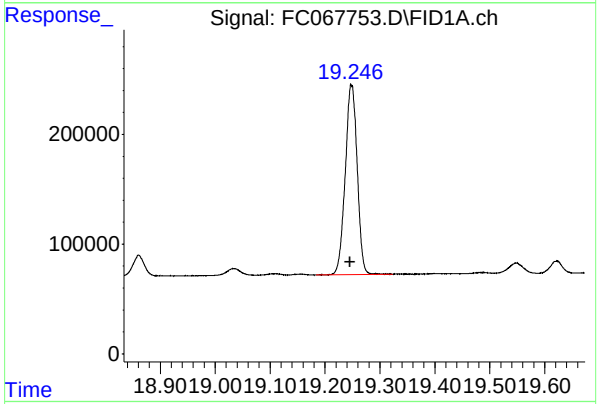
R.T.: 17.635 min
Delta R.T.: 0.002 min
Response: 3156621
Conc: 20.62 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



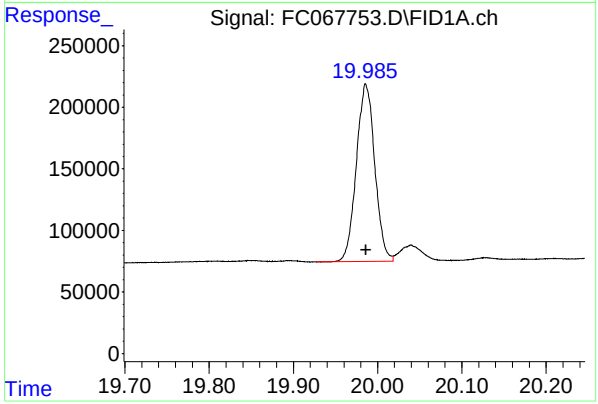
#18 n-Dotriacontane (C32)

R.T.: 18.466 min
Delta R.T.: 0.001 min
Response: 3113422
Conc: 21.08 ug/ml



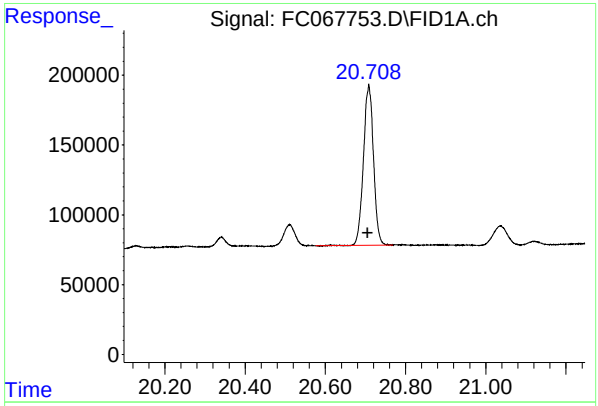
#19 n-Tetratriacontane (C34)

R.T.: 19.248 min
Delta R.T.: 0.003 min
Response: 2614033
Conc: 20.72 ug/ml



#20 n-Hexatriacontane (C36)

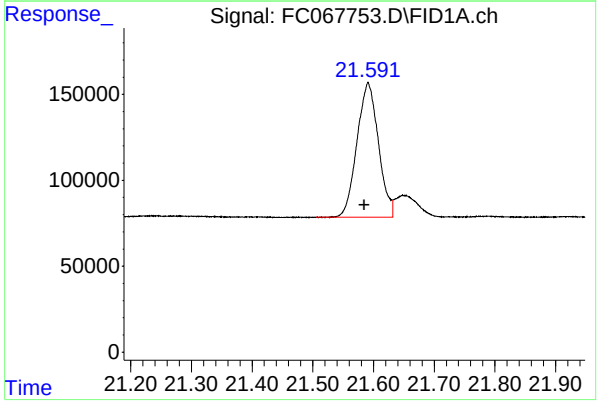
R.T.: 19.986 min
Delta R.T.: 0.000 min
Response: 2189342
Conc: 20.93 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.708 min
Delta R.T.: 0.003 min
Response: 1993396
Conc: 20.41 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.591 min
Delta R.T.: 0.006 min
Response: 1922623
Conc: 19.73 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111424AL\
Data File : FC067753.D
Signal(s) : FID1A.ch
Acq On : 14 Nov 2024 13:49
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 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.245	3.325	BB	397207	3273252	82.92%	4.717%
2	4.334	4.274	4.397	BB	359161	3340748	84.63%	4.815%
3	5.911	5.859	5.992	BB	395819	3690809	93.50%	5.319%
4	6.349	6.289	6.402	BB	335407	3400656	86.15%	4.901%
5	6.965	6.919	7.069	BB	354092	3590183	90.95%	5.174%
6	8.140	8.075	8.212	BB	315820	3396495	86.04%	4.895%
7	9.738	9.682	9.812	BB	320549	3529343	89.41%	5.086%
8	11.179	11.067	11.249	BB	298392	3598310	91.15%	5.186%
9	11.490	11.424	11.549	BB	353294	3947572	100.00%	5.689%
10	12.485	12.417	12.552	BB	282430	3453724	87.49%	4.977%
11	12.928	12.865	12.977	BB	241045	2977474	75.43%	4.291%
12	13.097	13.030	13.160	BB	278431	3372726	85.44%	4.861%
13	13.682	13.587	13.749	BB	259524	3336664	84.52%	4.809%
14	14.782	14.692	14.850	BB	249647	3259223	82.56%	4.697%
15	15.801	15.734	15.870	BB	232224	3138531	79.51%	4.523%
16	16.750	16.600	16.825	BB	228528	3091639	78.32%	4.456%
17	17.635	17.565	17.699	BB	218395	3156621	79.96%	4.549%
18	18.466	18.389	18.537	BB	209581	3113422	78.87%	4.487%
19	19.248	19.184	19.324	BB	171350	2614033	66.22%	3.767%
20	19.986	19.927	20.018	BV	142350	2189342	55.46%	3.155%
21	20.708	20.577	20.769	BB	115321	1993396	50.50%	2.873%
22	21.591	21.505	21.632	BV	78477	1922623	48.70%	2.771%
			Sum of corrected areas:			69386786		

Aliphatic EPH 111424.M Fri Nov 15 03:31:23 2024

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

Inital Calibration Report for SequenceID : FD111424AR

AreaCount

Parameter Range	FD048729.D	FD048730.D	FD048731.D	FD048732.D	FD048733.D	
Aromatic C10-C12	35969884.000	18267930.000	7601024.000	4048482.000	2051093.000	
Aromatic C12-C16	53799266.000	27329767.000	11363305.000	6130468.000	3105423.000	
Aromatic C16-C21	68956735.000	35122486.000	14626807.000	7814027.000	4056681.000	
Aromatic C21-C36	129641639.000	66976017.000	28128596.000	14930708.000	7699801.000	
Aromatic EPH	288367524.000	147696200.000	61719732.000	32923685.000	16912998.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	192017.544	5.932				
Aromatic C12-C16	192458.9766662	6.576				
Aromatic C16-C21	185804.816	6.985				
Aromatic C21-C36	157231.0562216	7.202				
Aromatic EPH	173317.2659998	6.861				

Concentration

Parameter Range	FD048729.D	FD048730.D	FD048731.D	FD048732.D	FD048733.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	FD048729.D	FD048730.D	FD048731.D	FD048732.D	FD048733.D	
Aromatic C10-C12	179849.420000	182679.300000	190025.600000	202424.100000	205109.300000	
Aromatic C12-C16	179330.886666	182198.446666	189388.416666	204348.933333	207028.200000	
Aromatic C16-C21	172391.837500	175612.430000	182835.087500	195350.675000	202834.050000	
Aromatic C21-C36	144046.265555	148835.593333	156269.977777	165896.755555	171106.688888	
Aromatic EPH	160204.180000	164106.888888	171443.700000	182909.361111	187922.200000	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048729.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 10:39
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: Nov 14 12:42:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.373	16279710	96.638 ug/ml
Spiked Amount 50.000		Recovery = 193.28%	
6) S 2-Flurobiphenyl (SURR)	8.224	10978429	98.038 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 196.08%#	
11) S ortho-Terphenyl (SURR)	11.261	17593385	96.618 ug/ml
Spiked Amount 50.000		Recovery = 193.24%	
Target Compounds			
1) T 1,2,3-Trimethylbenzen...	4.194	17620031	97.215 ug/ml
2) T Naphthalene (C11.7)	5.713	18349853	97.281 ug/ml
3) T 2-Methylnaphthalene (...	6.761	17920924	97.298 ug/ml
5) T Acenaphthylene (C15.06)	8.028	18165782	97.718 ug/ml
7) T Acenaphthene (C15.5)	8.324	17712560	96.795 ug/ml
8) T Flouorene (C16.55)	9.102	17936029	97.266 ug/ml
9) T Phenanthrene (C19.36)	10.490	17155776	97.334 ug/ml
10) T Anthracene (C19.43)	10.567	17179222	96.460 ug/ml
12) T Fluoranthene (C21.85)	12.296	16826726	96.772 ug/ml
13) T Pyrene (C20.8)	12.590	16685708	97.181 ug/ml
14) T Benzo[a]anthracene (C...	14.460	15682702	97.315 ug/ml
15) T Chrysene (C27.41)	14.507	15579339	95.080 ug/ml
16) T benzo[b]fluoranthene ...	16.009	14749238	96.630 ug/ml
17) T Bnezo[k]fluoranthene ...	16.047	14449844	95.199 ug/ml
18) T Benzo[a]pyrene (C31.34)	16.387	13748521	95.913 ug/ml
19) T Indeno[1,2,3-cd]pyren...	17.753	12754859	101.169 ug/ml
20) T Dibenz[a,h]anthracene...	17.793	12899293	92.101 ug/ml
21) T Benzo[g,h,i]perylene ...	18.010	12951117	95.291 ug/ml

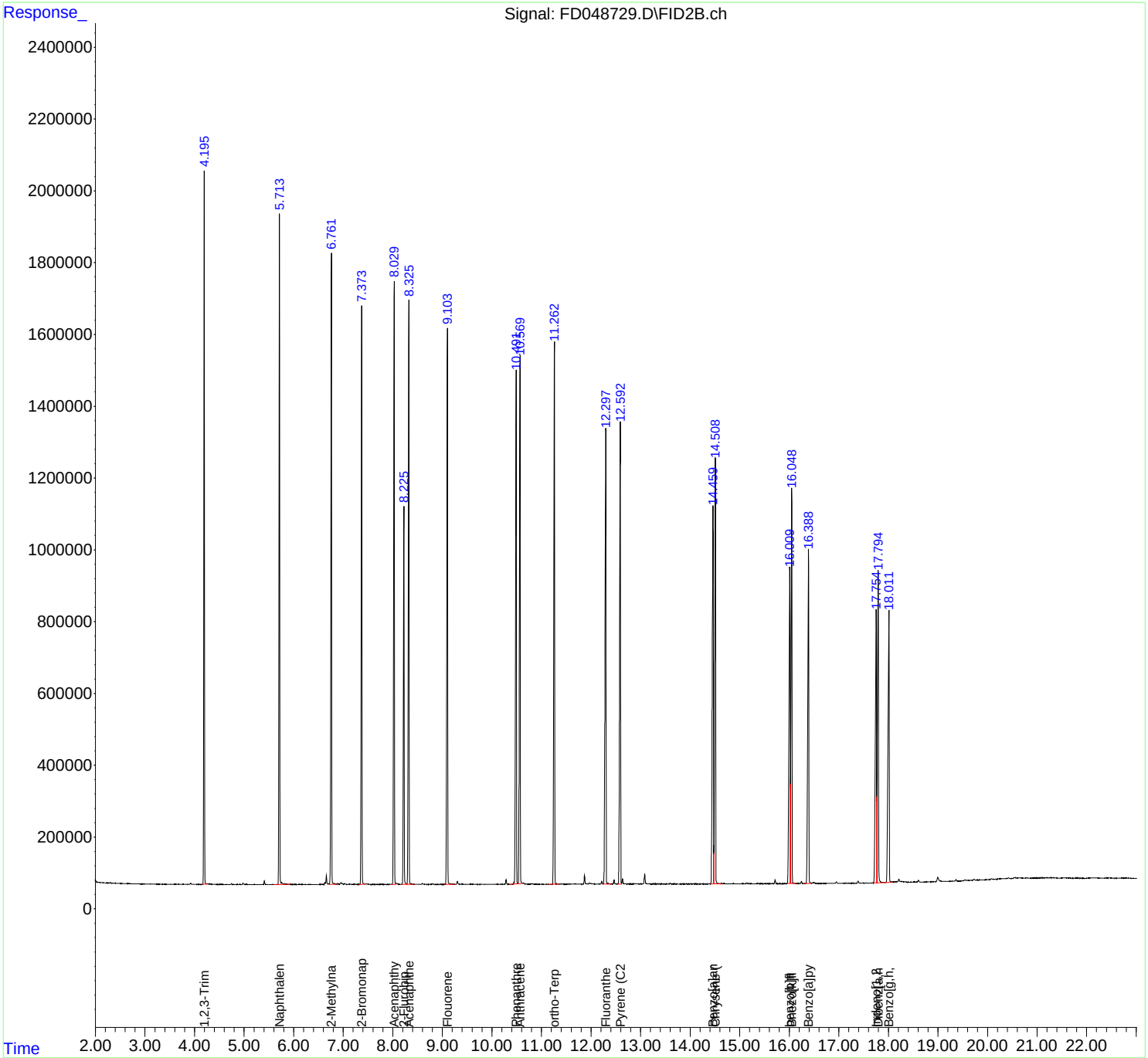
(f)=RT Delta > 1/2 Window (m)=manual int.

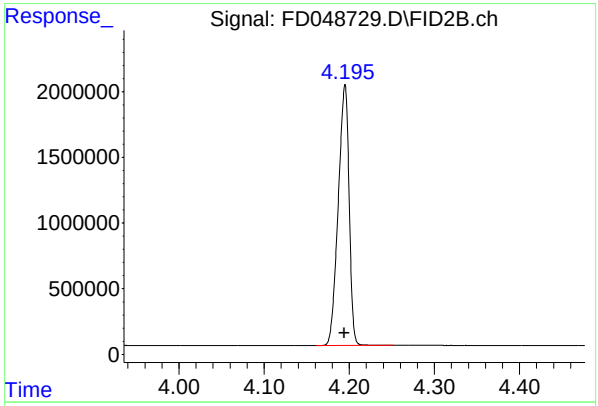
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048729.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 10:39
Operator : YP/AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 14 12:42:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

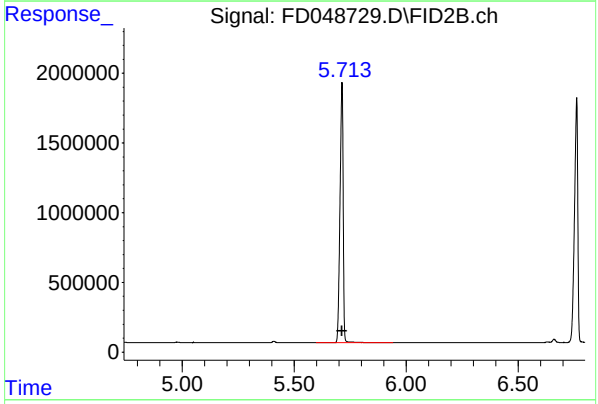




#1 1,2,3-Trimethylbenzene (C10.1)

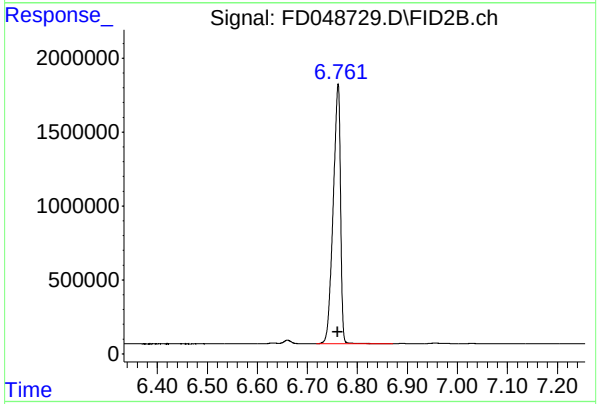
R.T.: 4.194 min
Delta R.T.: 0.000 min
Response: 17620031
Conc: 97.22 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



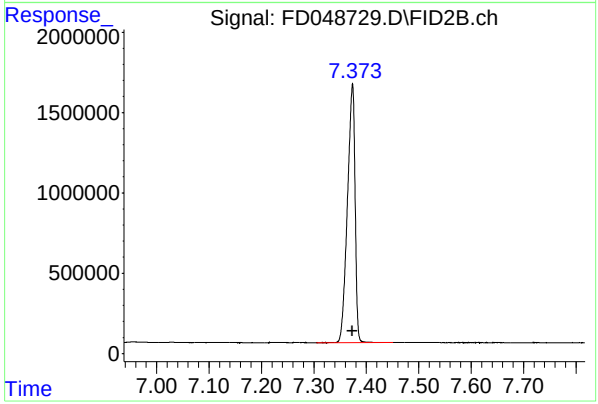
#2 Naphthalene (C11.7)

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 18349853
Conc: 97.28 ug/ml



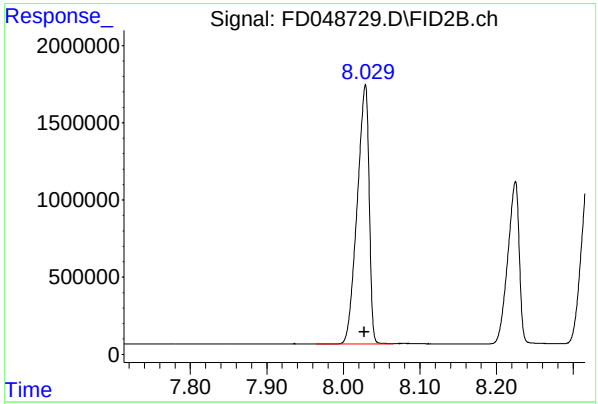
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.761 min
Delta R.T.: 0.000 min
Response: 17920924
Conc: 97.30 ug/ml



#4 2-Bromonaphthalene (SURR)

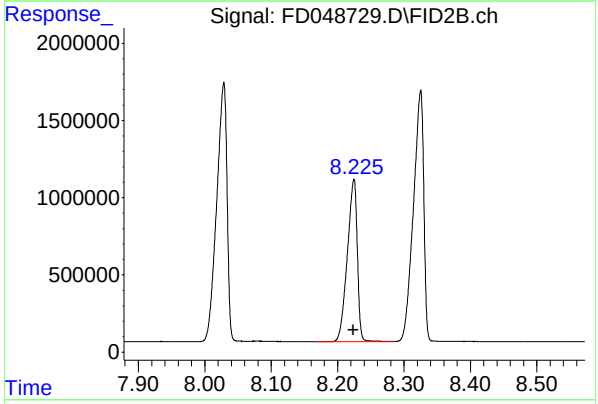
R.T.: 7.373 min
Delta R.T.: 0.000 min
Response: 16279710
Conc: 96.64 ug/ml



#5 Acenaphthylene (C15.06)

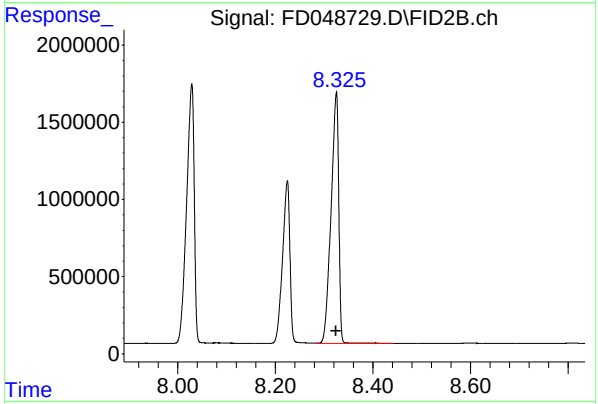
R.T.: 8.028 min
Delta R.T.: 0.000 min
Response: 18165782
Conc: 97.72 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



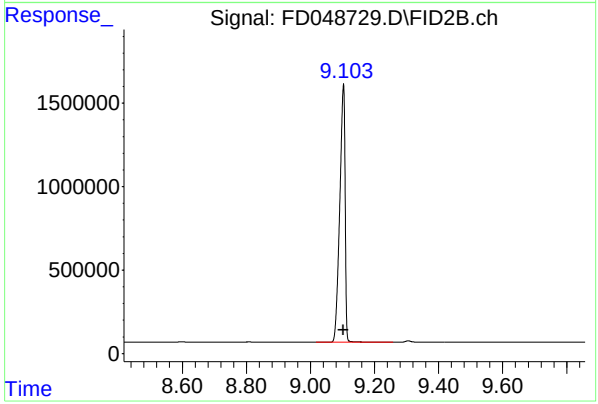
#6 2-Flurobiphenyl (SURR)

R.T.: 8.224 min
Delta R.T.: 0.000 min
Response: 10978429
Conc: 98.04 ug/ml



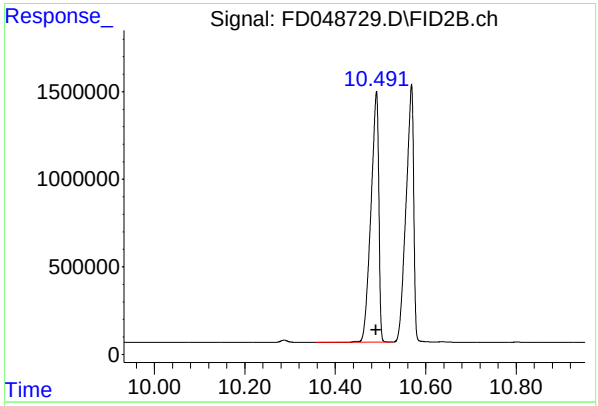
#7 Acenaphthene (C15.5)

R.T.: 8.324 min
Delta R.T.: 0.000 min
Response: 17712560
Conc: 96.79 ug/ml



#8 Flouorene (C16.55)

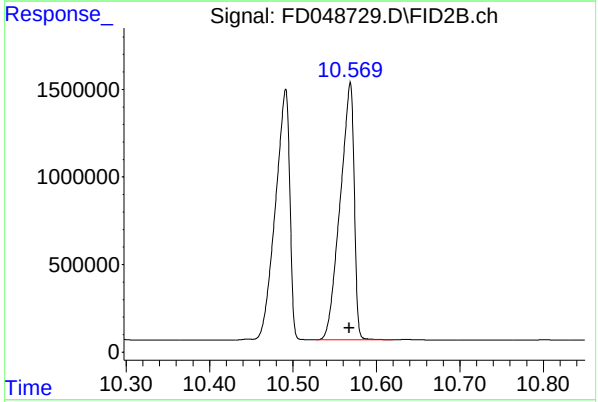
R.T.: 9.102 min
Delta R.T.: 0.000 min
Response: 17936029
Conc: 97.27 ug/ml



#9 Phenanthrene (C19.36)

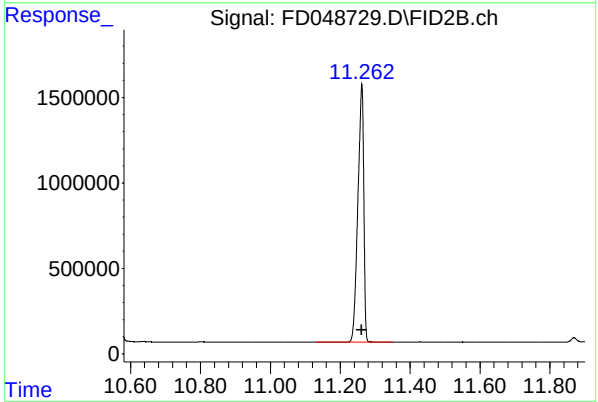
R.T.: 10.490 min
Delta R.T.: 0.000 min
Response: 17155776
Conc: 97.33 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



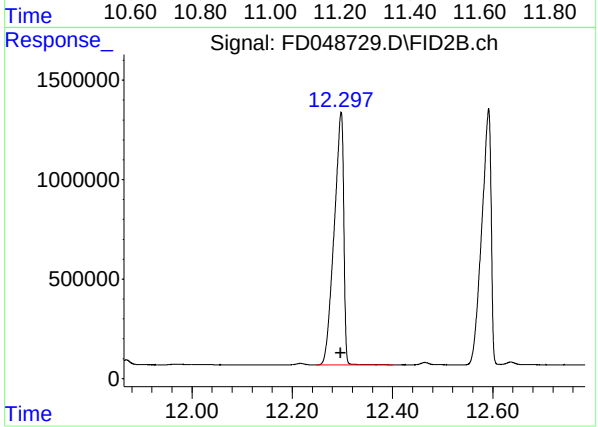
#10 Anthracene (C19.43)

R.T.: 10.567 min
Delta R.T.: 0.000 min
Response: 17179222
Conc: 96.46 ug/ml



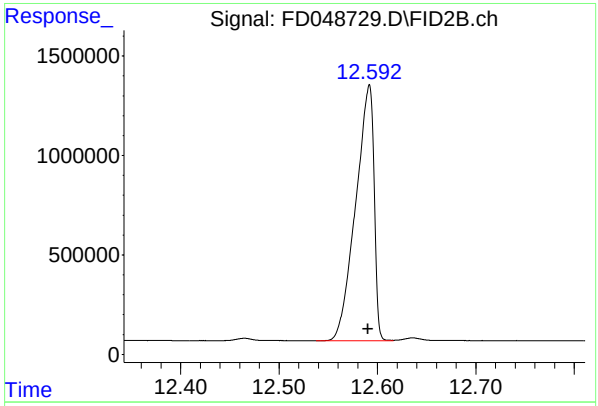
#11 ortho-Terphenyl (SURR)

R.T.: 11.261 min
Delta R.T.: 0.000 min
Response: 17593385
Conc: 96.62 ug/ml



#12 Fluoranthene (C21.85)

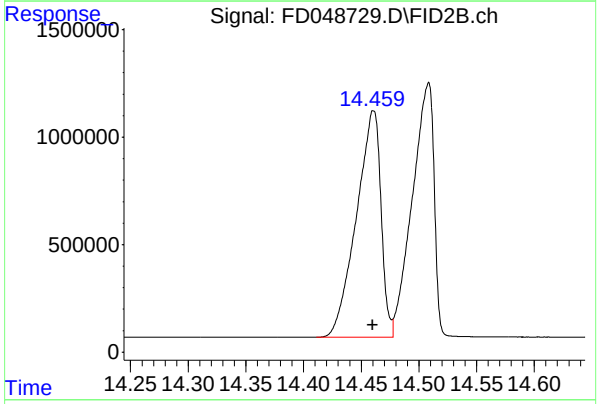
R.T.: 12.296 min
Delta R.T.: 0.000 min
Response: 16826726
Conc: 96.77 ug/ml



#13 Pyrene (C20.8)

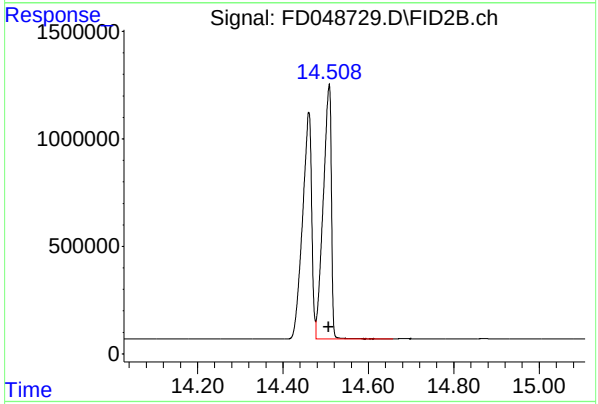
R.T.: 12.590 min
Delta R.T.: 0.000 min
Response: 16685708
Conc: 97.18 ug/ml

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



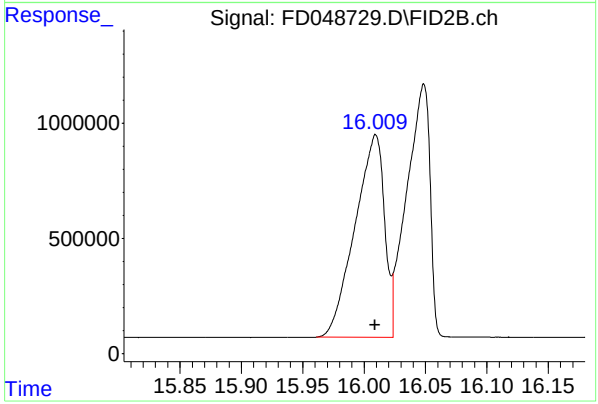
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.460 min
Delta R.T.: 0.000 min
Response: 15682702
Conc: 97.32 ug/ml



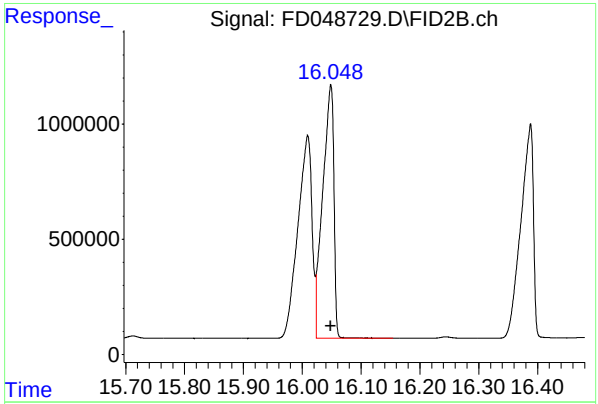
#15 Chrysene (C27.41)

R.T.: 14.507 min
Delta R.T.: 0.000 min
Response: 15579339
Conc: 95.08 ug/ml



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

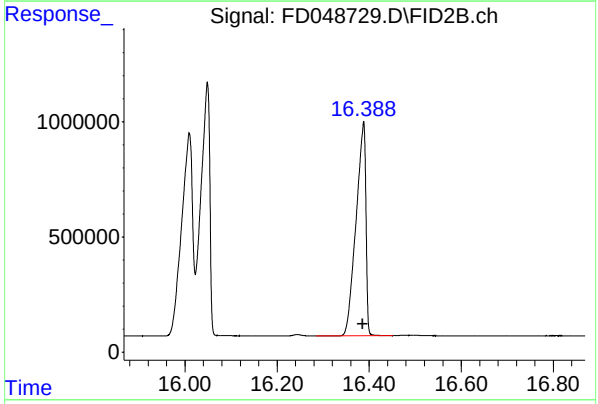
R.T.: 16.009 min
Delta R.T.: 0.000 min
Response: 14749238
Conc: 96.63 ug/ml



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

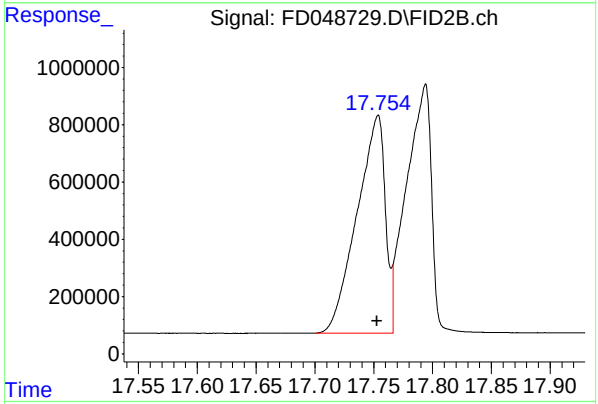
R.T.: 16.047 min
Delta R.T.: 0.000 mi
Response: 14449844
Conc: 95.20 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1



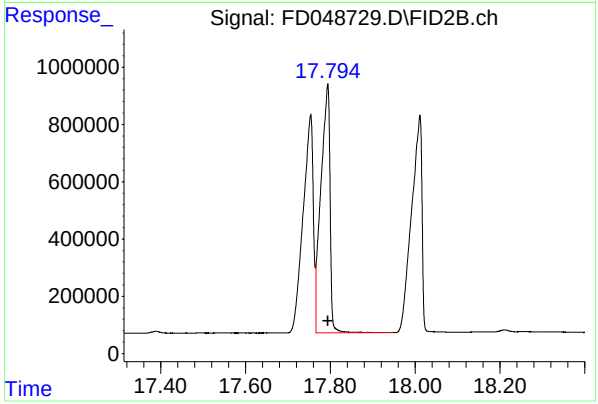
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.387 min
Delta R.T.: 0.000 min
Response: 13748521
Conc: 95.91 ug/ml



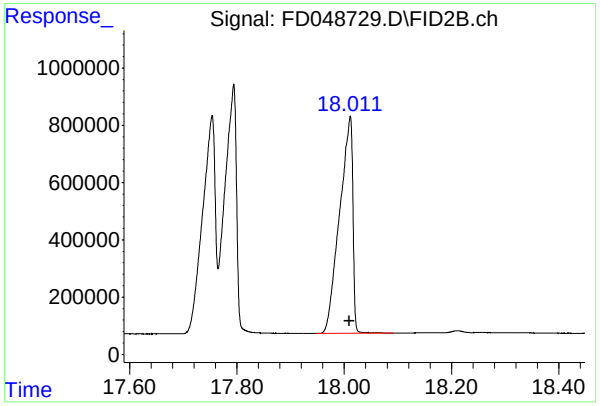
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.753 min
Delta R.T.: 0.000 min
Response: 12754859
Conc: 101.17 ug/ml



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

R.T.: 17.793 min
Delta R.T.: -0.001 min
Response: 12899293
Conc: 92.10 ug/ml



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

R.T.: 18.010 min
Delta R.T.: 0.000 mi
Response: 12951117
Conc: 95.29 ug/m

Instrument :
FID_D
ClientSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048729.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 10:39
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 111424.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	4.194	4.161	4.251	BV	1968987	17620031	96.02%	5.288%
2	5.713	5.598	5.941	BB	1911565	18349853	100.00%	5.507%
3	6.761	6.718	6.871	VV	1752861	17920924	97.66%	5.378%
4	7.373	7.304	7.451	BV	1649420	16279710	88.72%	4.886%
5	8.028	7.964	8.065	VV	1662481	18165782	99.00%	5.452%
6	8.224	8.168	8.283	PV	1055066	10978429	59.83%	3.295%
7	8.324	8.283	8.441	VB	1619247	17712560	96.53%	5.316%
8	9.102	9.018	9.258	BB	1516197	17936029	97.74%	5.383%
9	10.490	10.358	10.528	PV	1445226	17155776	93.49%	5.148%
10	10.567	10.528	10.620	VV	1455857	17179222	93.62%	5.156%
11	11.261	11.131	11.351	BV	1503276	17593385	95.88%	5.280%
12	12.296	12.248	12.401	PV	1287669	16826726	91.70%	5.050%
13	12.590	12.538	12.616	PV	1284099	16685708	90.93%	5.007%
14	14.460	14.411	14.478	BV	1066457	15682702	85.47%	4.706%
15	14.507	14.478	14.658	VV	1184558	15579339	84.90%	4.675%
16	16.009	15.961	16.024	BV	870846	14749238	80.38%	4.426%
17	16.047	16.024	16.154	VB	1095885	14449844	78.75%	4.336%
18	16.387	16.285	16.452	PV	935309	13748521	74.92%	4.126%
19	17.753	17.701	17.766	BV	775079	12754859	69.51%	3.828%
20	17.793	17.766	17.948	VV	889008	12899293	70.30%	3.871%
21	18.010	17.948	18.091	PV	765798	12951117	70.58%	3.887%
			Sum of corrected areas:			333219047		

Aromatic EPH 111424.M Fri Nov 15 02:36:20 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048730.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:15
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: Nov 14 12:44:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.368	8283088	49.443 ug/ml
Spiked Amount	50.000		Recovery =	98.89%
6) S	2-Flurobiphenyl (SURR)	8.218	5559238	49.762 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	99.52%
11) S	ortho-Terphenyl (SURR)	11.254	8996437	49.602 ug/ml
Spiked Amount	50.000		Recovery =	99.20%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	8939308	49.545 ug/ml
2) T	Naphthalene (C11.7)	5.708	9328622	49.636 ug/ml
3) T	2-Methylnaphthalene (...	6.755	9099861	49.602 ug/ml
5) T	Acenaphthylene (C15.06)	8.022	9189135	49.619 ug/ml
7) T	Acenaphthene (C15.5)	8.317	9040771	49.602 ug/ml
8) T	Flouorene (C16.55)	9.095	9136727	49.698 ug/ml
9) T	Phenanthrene (C19.36)	10.482	8716439	49.634 ug/ml
10) T	Anthracene (C19.43)	10.558	8726580	49.328 ug/ml
12) T	Fluoranthene (C21.85)	12.287	8602468	49.648 ug/ml
13) T	Pyrene (C20.8)	12.581	8542740	49.836 ug/ml
14) T	Benzo[a]anthracene (C...	14.450	8014439	49.821 ug/ml
15) T	Chrysene (C27.41)	14.494	8069480	49.496 ug/ml
16) T	benzo[b]fluoranthene ...	15.999	7563737	49.702 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.034	7564689	49.676 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.375	7116324	49.763 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.740	6332404	50.151 ug/ml
20) T	Dibenz[a,h]anthracene...	17.778	6967880	49.424 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.993	6744596	49.749 ug/ml

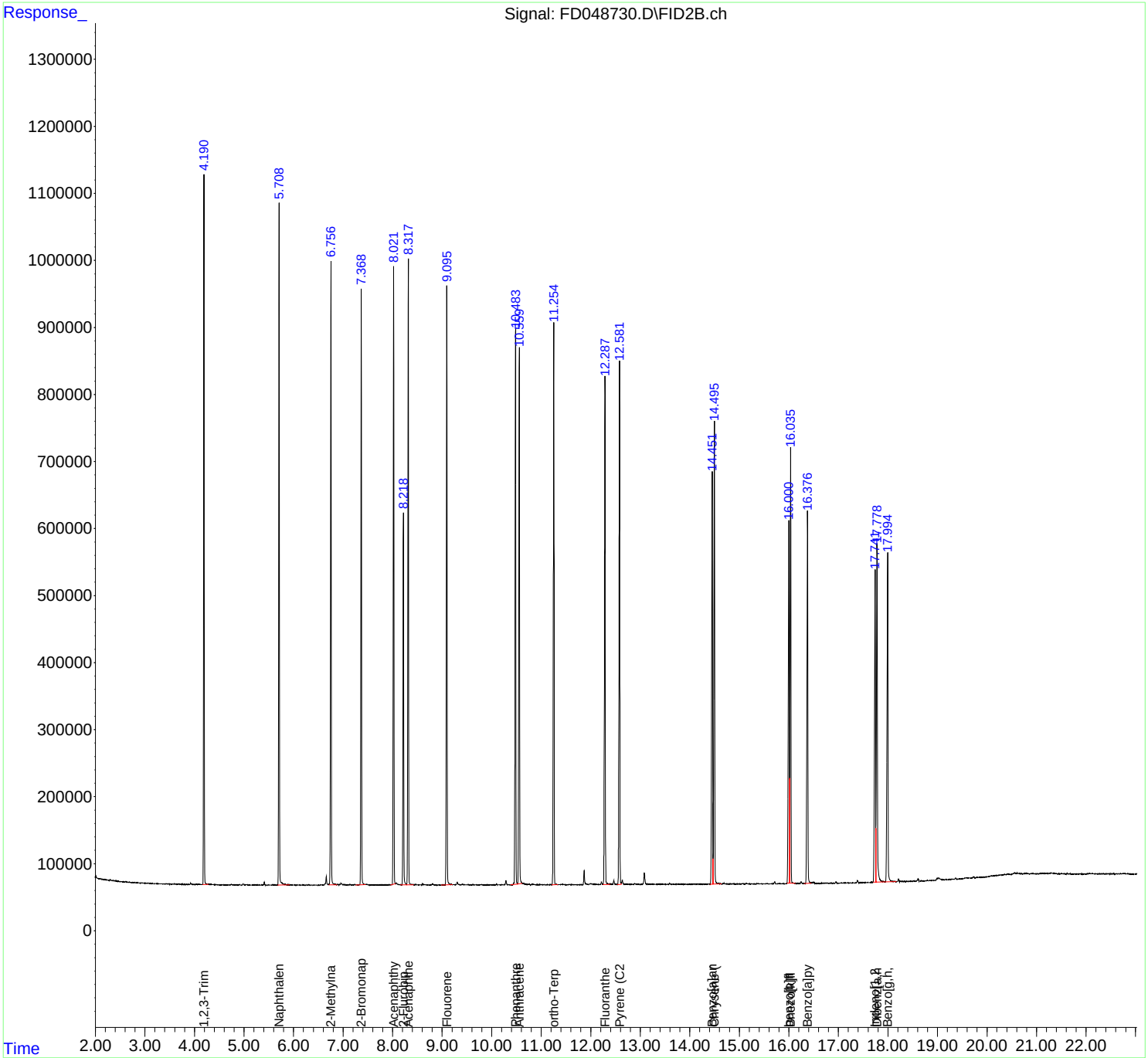
(f)=RT Delta > 1/2 Window (m)=manual int.

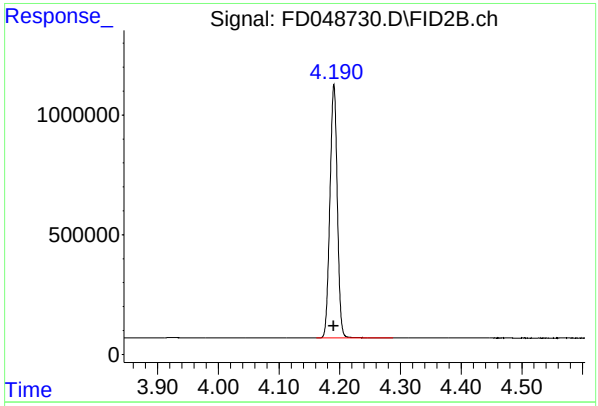
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048730.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:15
Operator : YP/AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 14 12:44:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

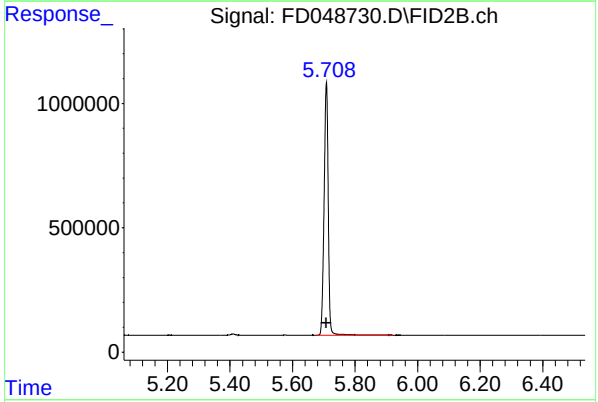




#1 1,2,3-Trimethylbenzene (C10.1)

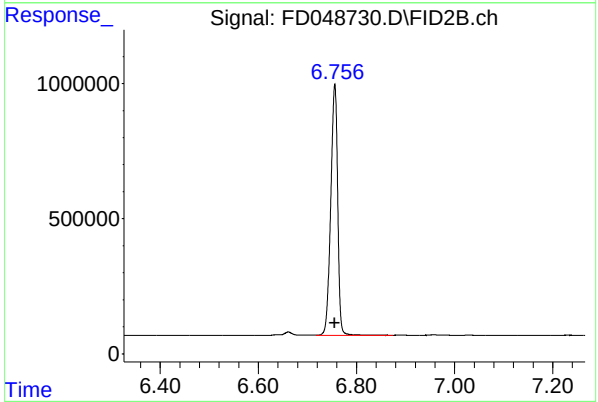
R.T.: 4.190 min
Delta R.T.: 0.000 min
Response: 8939308
Conc: 49.55 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



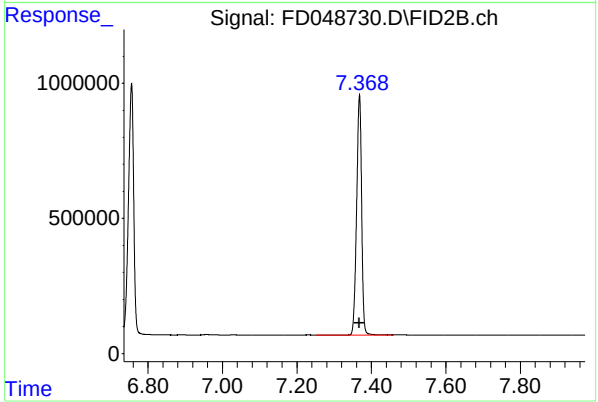
#2 Naphthalene (C11.7)

R.T.: 5.708 min
Delta R.T.: 0.000 min
Response: 9328622
Conc: 49.64 ug/ml



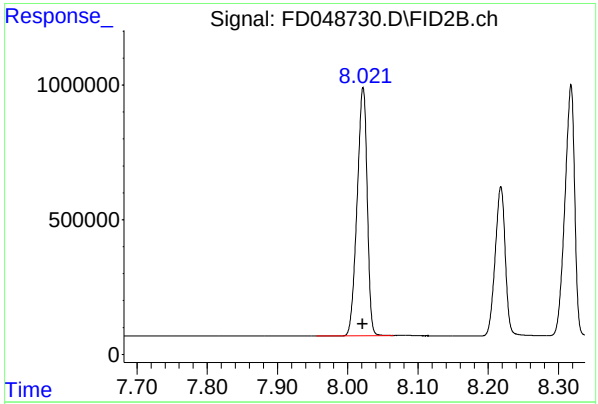
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.755 min
Delta R.T.: 0.000 min
Response: 9099861
Conc: 49.60 ug/ml



#4 2-Bromonaphthalene (SURR)

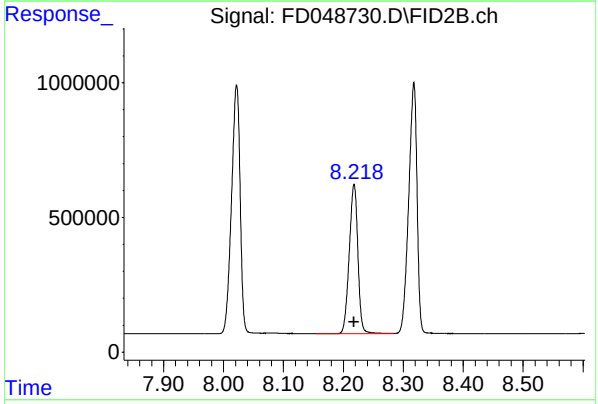
R.T.: 7.368 min
Delta R.T.: 0.000 min
Response: 8283088
Conc: 49.44 ug/ml



#5 Acenaphthylene (C15.06)

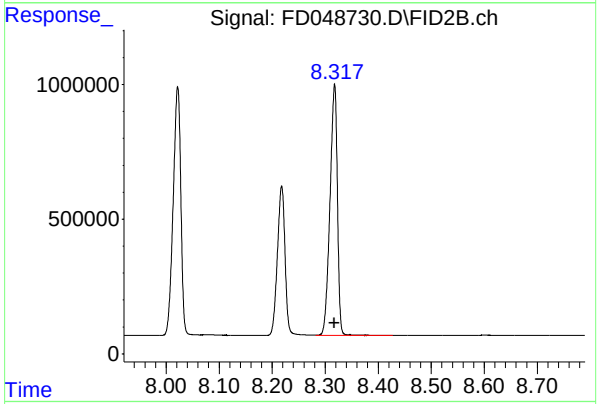
R.T.: 8.022 min
Delta R.T.: 0.000 min
Response: 9189135
Conc: 49.62 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



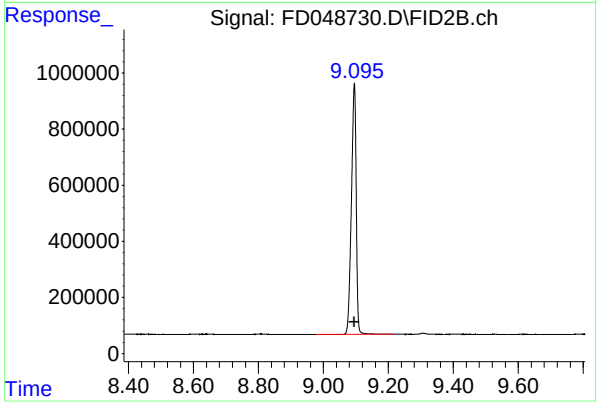
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 5559238
Conc: 49.76 ug/ml



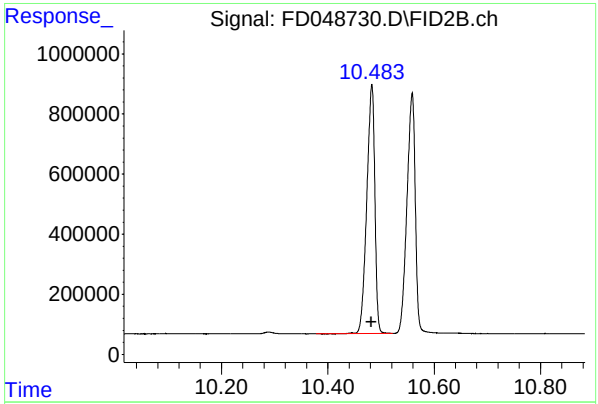
#7 Acenaphthene (C15.5)

R.T.: 8.317 min
Delta R.T.: 0.000 min
Response: 9040771
Conc: 49.60 ug/ml



#8 Flouorene (C16.55)

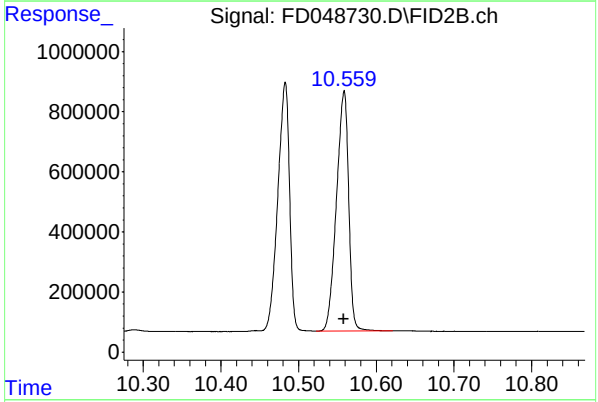
R.T.: 9.095 min
Delta R.T.: 0.000 min
Response: 9136727
Conc: 49.70 ug/ml



#9 Phenanthrene (C19.36)

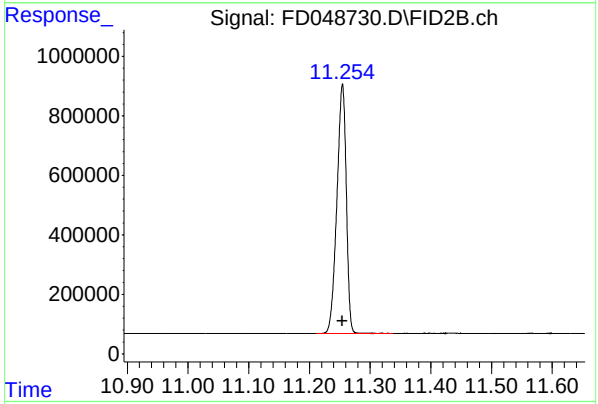
R.T.: 10.482 min
Delta R.T.: 0.000 min
Response: 8716439
Conc: 49.63 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



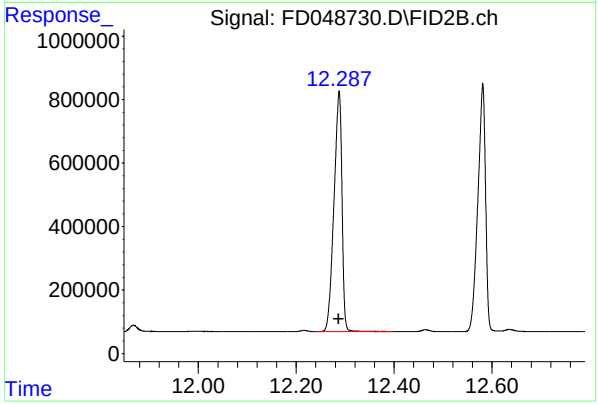
#10 Anthracene (C19.43)

R.T.: 10.558 min
Delta R.T.: 0.000 min
Response: 8726580
Conc: 49.33 ug/ml



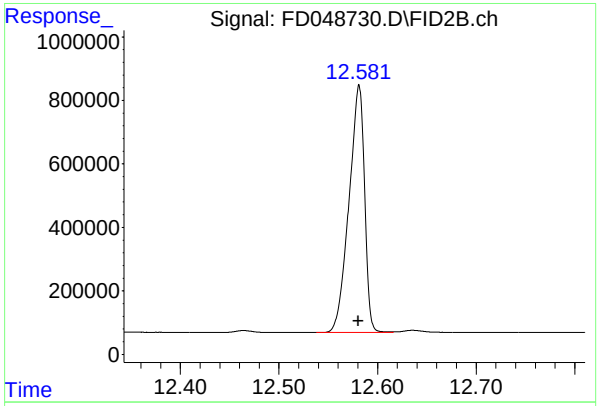
#11 ortho-Terphenyl (SURR)

R.T.: 11.254 min
Delta R.T.: 0.000 min
Response: 8996437
Conc: 49.60 ug/ml



#12 Fluoranthene (C21.85)

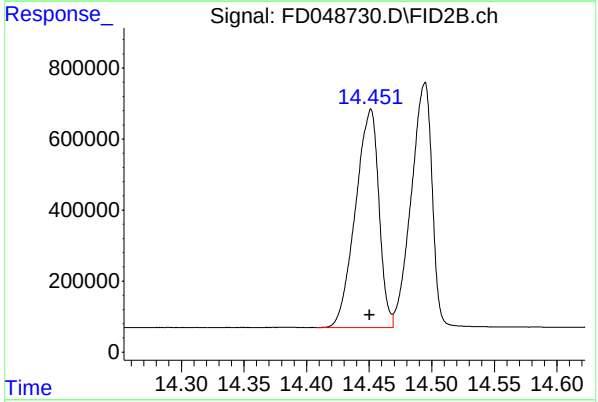
R.T.: 12.287 min
Delta R.T.: 0.000 min
Response: 8602468
Conc: 49.65 ug/ml



#13 Pyrene (C20.8)

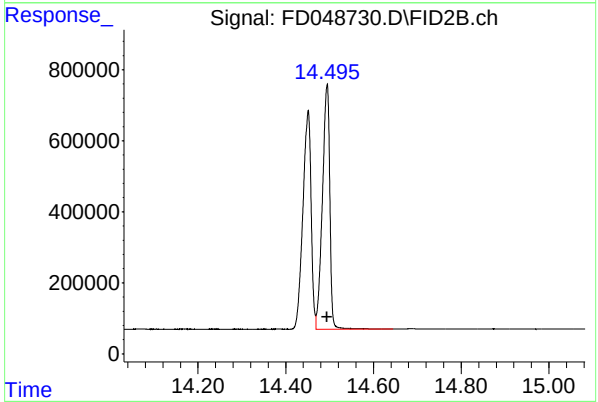
R.T.: 12.581 min
Delta R.T.: 0.000 min
Response: 8542740
Conc: 49.84 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



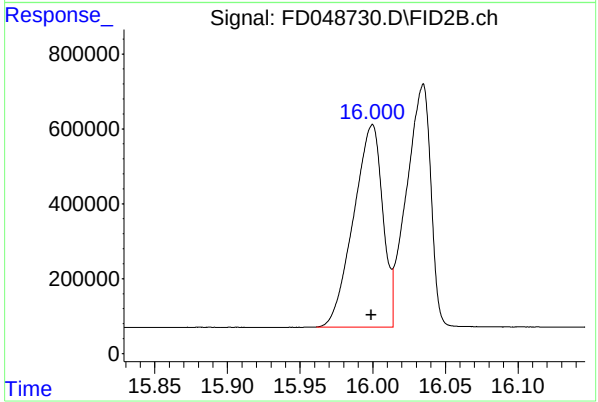
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.450 min
Delta R.T.: 0.000 min
Response: 8014439
Conc: 49.82 ug/ml



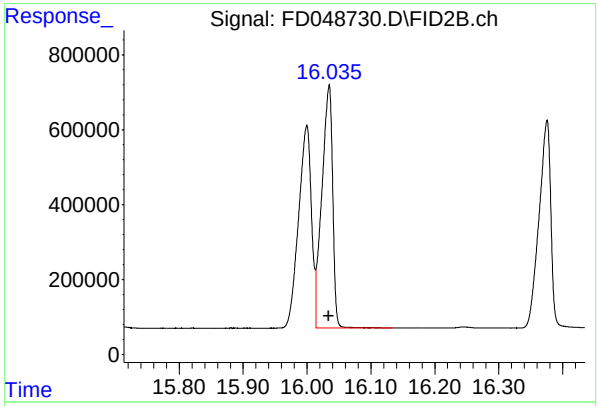
#15 Chrysene (C27.41)

R.T.: 14.494 min
Delta R.T.: 0.000 min
Response: 8069480
Conc: 49.50 ug/ml



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

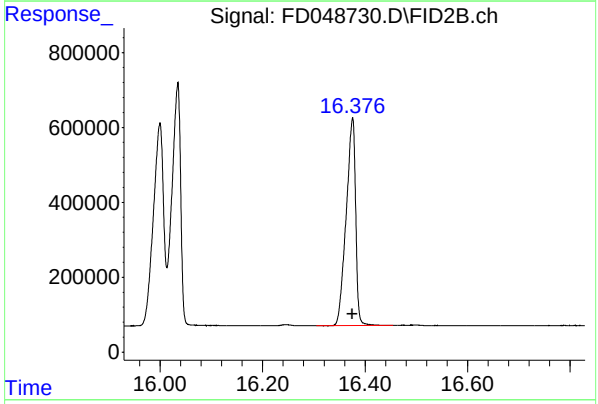
R.T.: 15.999 min
Delta R.T.: 0.000 min
Response: 7563737
Conc: 49.70 ug/ml



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

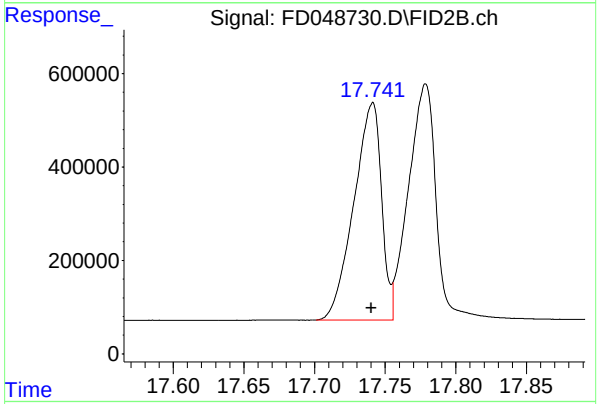
R.T.: 16.034 min
Delta R.T.: 0.000 min
Response: 7564689
Conc: 49.68 ug/ml

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2



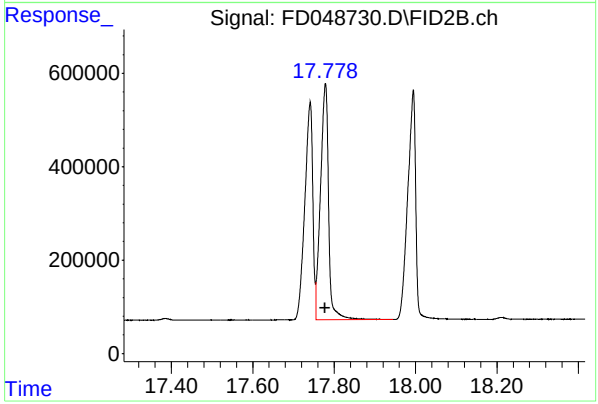
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.375 min
Delta R.T.: 0.000 min
Response: 7116324
Conc: 49.76 ug/ml



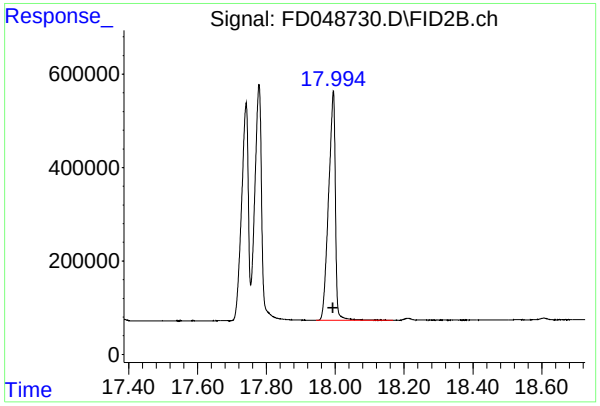
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.740 min
Delta R.T.: 0.000 min
Response: 6332404
Conc: 50.15 ug/ml



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

R.T.: 17.778 min
Delta R.T.: 0.000 min
Response: 6967880
Conc: 49.42 ug/ml



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

R.T.: 17.993 min
Delta R.T.: 0.000 mi
Response: 6744596
Conc: 49.75 ug/m

Instrument :
FID_D
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048730.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:15
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 111424.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	4.190	4.161	4.288	BB	1058435	8939308	95.83%	5.242%
2	5.708	5.675	5.921	PB	1013202	9328622	100.00%	5.470%
3	6.756	6.718	6.874	VV	916108	9099861	97.55%	5.336%
4	7.368	7.251	7.458	PV	886378	8283088	88.79%	4.857%
5	8.022	7.955	8.064	PV	921926	9189135	98.50%	5.388%
6	8.218	8.154	8.283	BV	555239	5559238	59.59%	3.260%
7	8.317	8.283	8.428	VB	936635	9040771	96.91%	5.301%
8	9.095	8.978	9.214	BV	884094	9136727	97.94%	5.358%
9	10.482	10.378	10.522	BV	814217	8716439	93.44%	5.111%
10	10.558	10.522	10.621	VV	794255	8726580	93.55%	5.117%
11	11.254	11.211	11.338	BB	838716	8996437	96.44%	5.275%
12	12.287	12.241	12.398	PB	761177	8602468	92.22%	5.044%
13	12.581	12.538	12.616	BV	781058	8542740	91.58%	5.009%
14	14.450	14.408	14.469	BV	616472	8014439	85.91%	4.700%
15	14.494	14.469	14.644	VB	694071	8069480	86.50%	4.732%
16	15.999	15.961	16.014	BV	535600	7563737	81.08%	4.435%
17	16.034	16.014	16.134	VB	652251	7564689	81.09%	4.436%
18	16.375	16.304	16.454	BV	549270	7116324	76.28%	4.173%
19	17.740	17.701	17.755	BV	468119	6332404	67.88%	3.713%
20	17.778	17.755	17.944	VV	504433	6967880	74.69%	4.086%
21	17.993	17.944	18.168	VV	496008	6744596	72.30%	3.955%
			Sum of corrected areas:			170534960		

Aromatic EPH 111424.M Fri Nov 15 02:36:53 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048731.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:51
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: Nov 14 12:40:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.365	3482492	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.215	2283559	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.250	3765042	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	3725913	20.000 ug/ml
2) T	Naphthalene (C11.7)	5.706	3875111	20.000 ug/ml
3) T	2-Methylnaphthalene (...	6.752	3783290	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.018	3802878	20.000 ug/ml
7) T	Acenaphthene (C15.5)	8.312	3777137	20.000 ug/ml
8) T	Flouorene (C16.55)	9.091	3788895	20.000 ug/ml
9) T	Phenanthrene (C19.36)	10.478	3619123	20.000 ug/ml
10) T	Anthracene (C19.43)	10.553	3688027	20.000 ug/ml
12) T	Fluoranthene (C21.85)	12.282	3589859	20.000 ug/ml
13) T	Pyrene (C20.8)	12.574	3530762	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	14.443	3309617	20.000 ug/ml
15) T	Chrysene (C27.41)	14.485	3438362	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	15.990	3155598	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.022	3220964	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.366	2984019	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.730	2492029	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	17.770	3091940	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.980	2846208	20.000 ug/ml

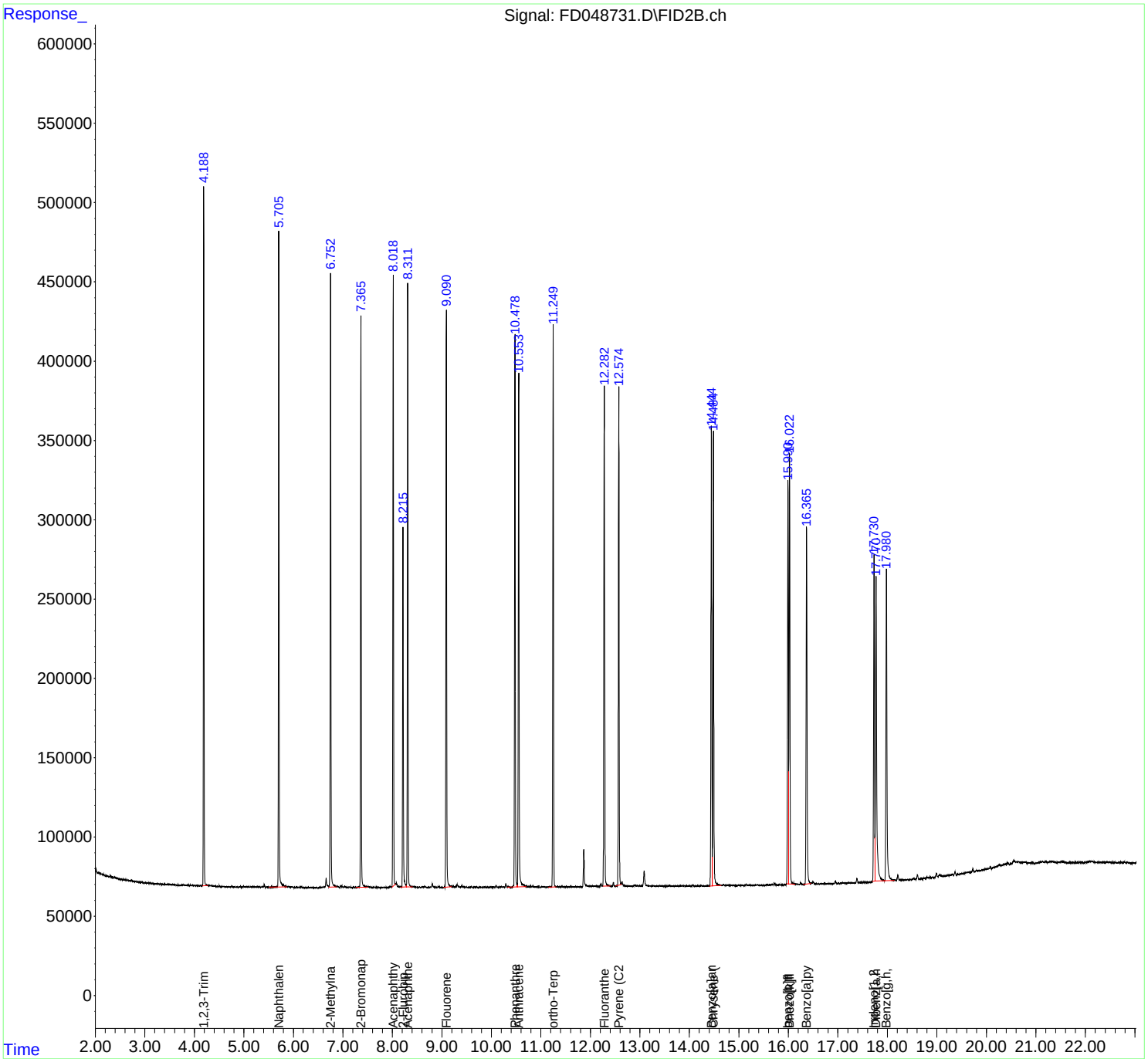
(f)=RT Delta > 1/2 Window (m)=manual int.

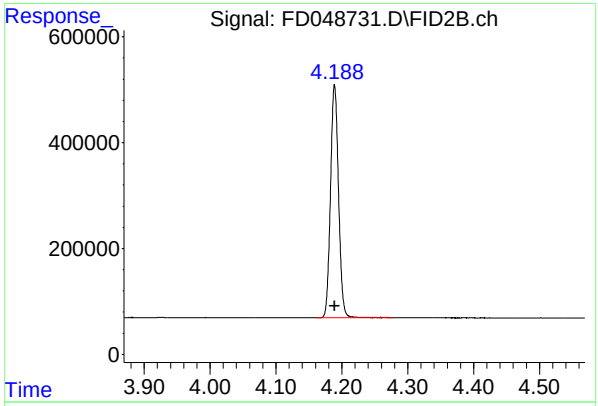
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048731.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:51
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 14 12:40:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 12:40:13 2024
Response via : Initial Calibration
Integrator: ChemStation

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

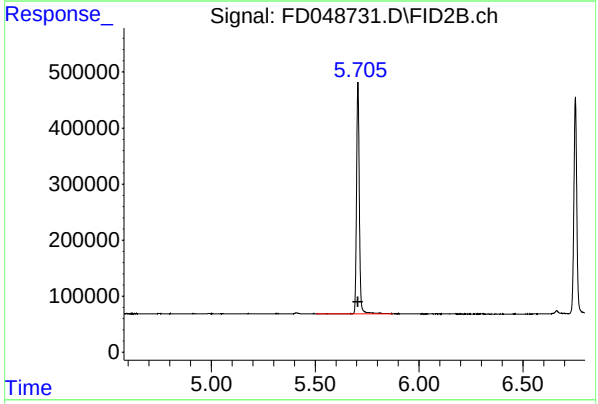




#1 1,2,3-Trimethylbenzene (C10.1)

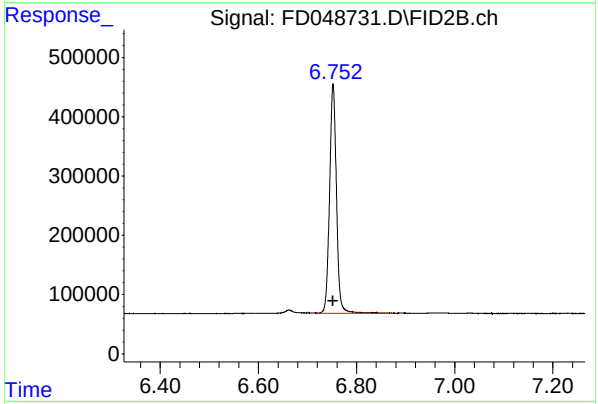
R.T.: 4.189 min
Delta R.T.: 0.000 min
Response: 3725913
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



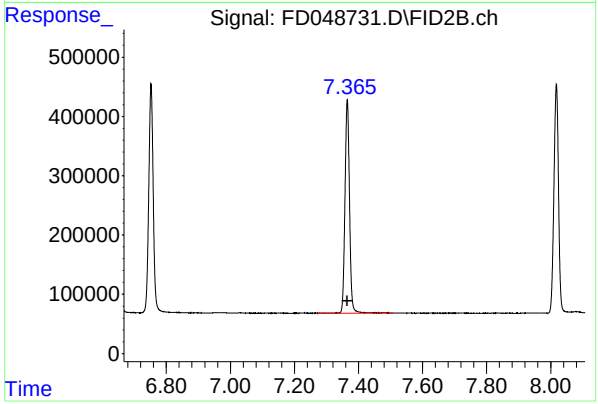
#2 Naphthalene (C11.7)

R.T.: 5.706 min
Delta R.T.: 0.000 min
Response: 3875111
Conc: 20.00 ug/ml



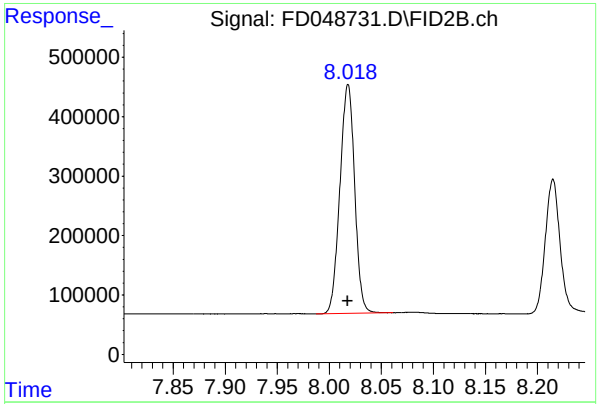
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.752 min
Delta R.T.: 0.000 min
Response: 3783290
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

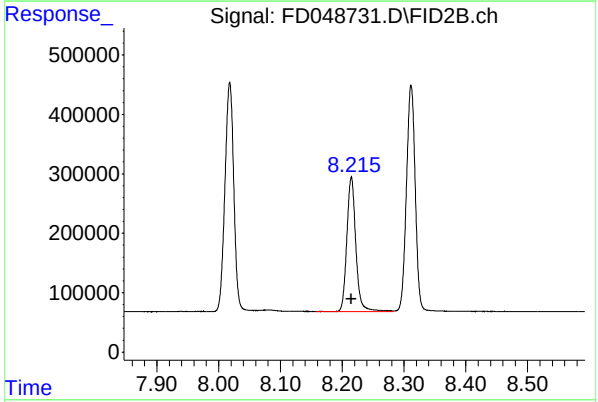
R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 3482492
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

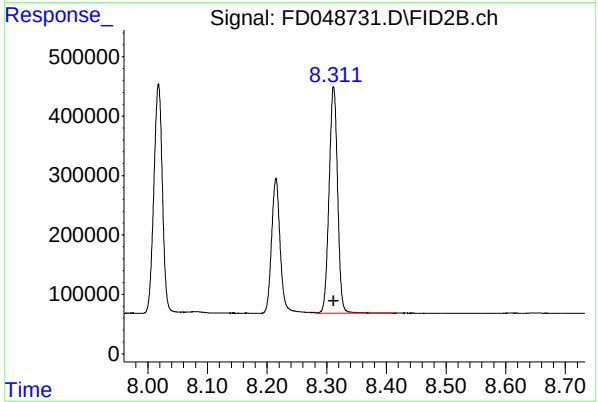
R.T.: 8.018 min
Delta R.T.: 0.000 min
Response: 3802878
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



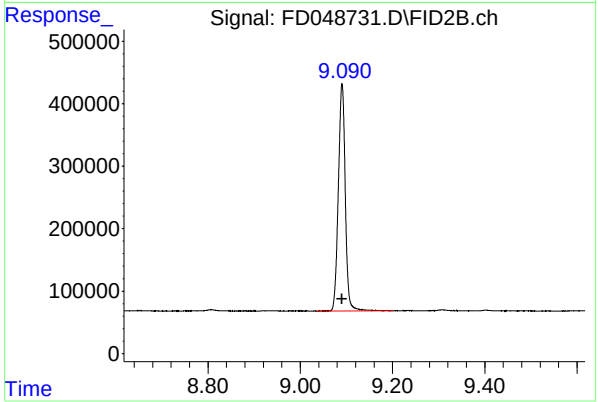
#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: 0.000 min
Response: 2283559
Conc: 20.00 ug/ml



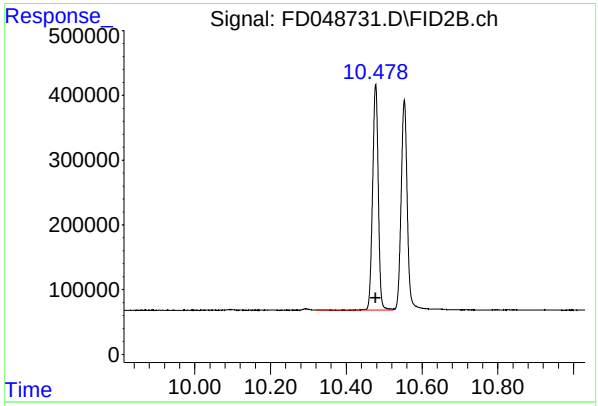
#7 Acenaphthene (C15.5)

R.T.: 8.312 min
Delta R.T.: 0.000 min
Response: 3777137
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

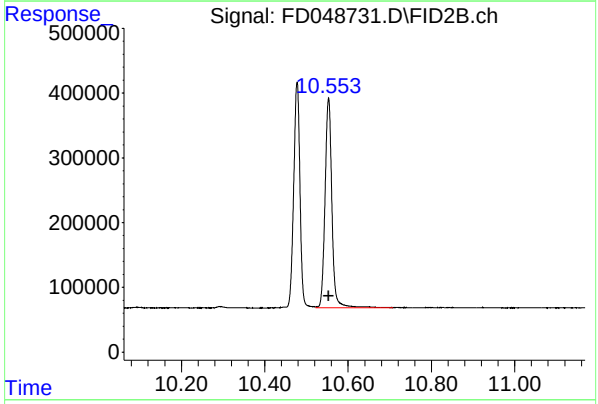
R.T.: 9.091 min
Delta R.T.: 0.000 min
Response: 3788895
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

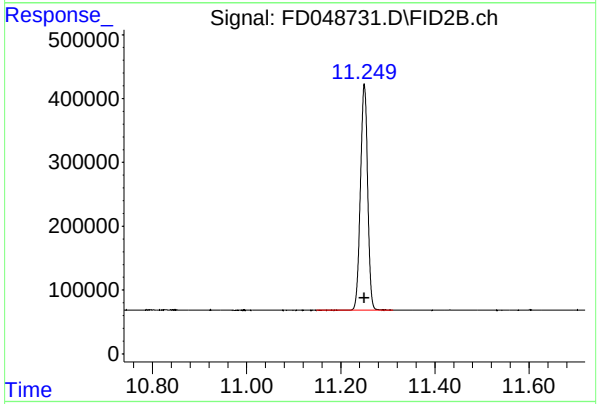
R.T.: 10.478 min
Delta R.T.: 0.000 min
Response: 3619123
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



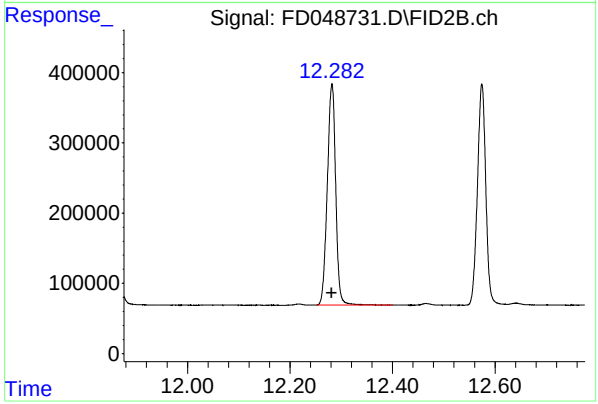
#10 Anthracene (C19.43)

R.T.: 10.553 min
Delta R.T.: 0.000 min
Response: 3688027
Conc: 20.00 ug/ml



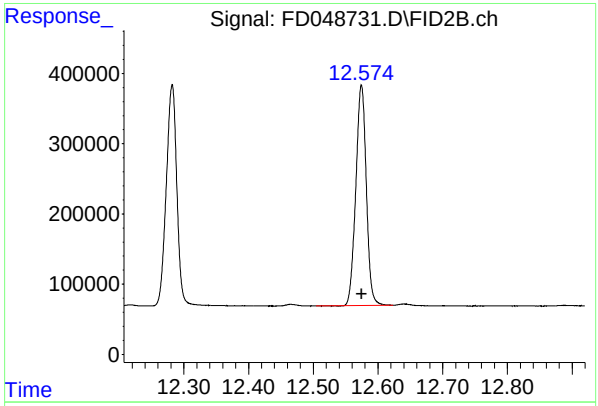
#11 ortho-Terphenyl (SURR)

R.T.: 11.250 min
Delta R.T.: 0.000 min
Response: 3765042
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

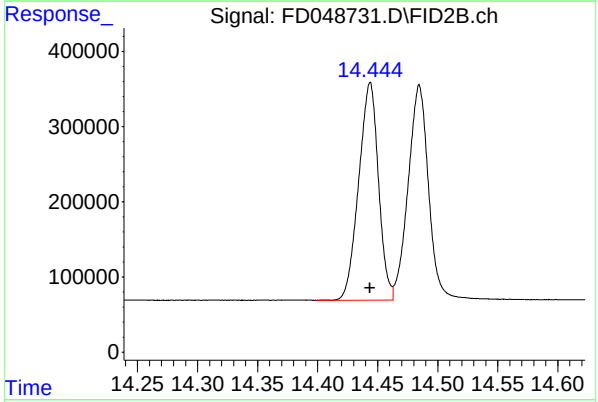
R.T.: 12.282 min
Delta R.T.: 0.000 min
Response: 3589859
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

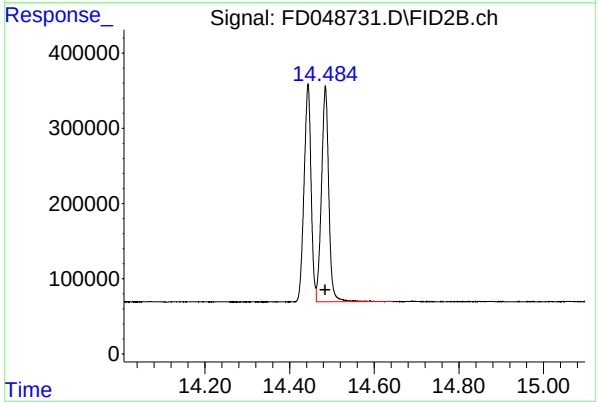
R.T.: 12.574 min
Delta R.T.: 0.000 min
Response: 3530762
Conc: 20.00 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



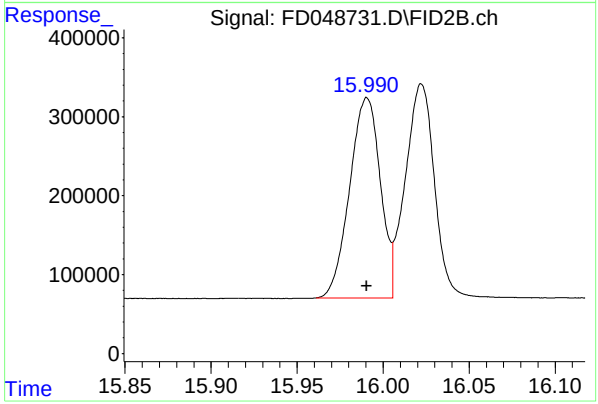
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 3309617
Conc: 20.00 ug/ml



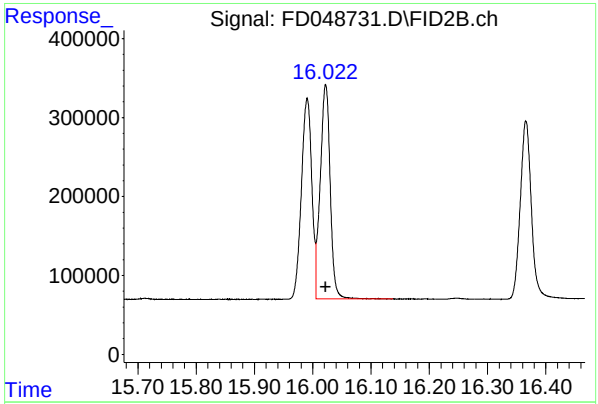
#15 Chrysene (C27.41)

R.T.: 14.485 min
Delta R.T.: 0.000 min
Response: 3438362
Conc: 20.00 ug/ml



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

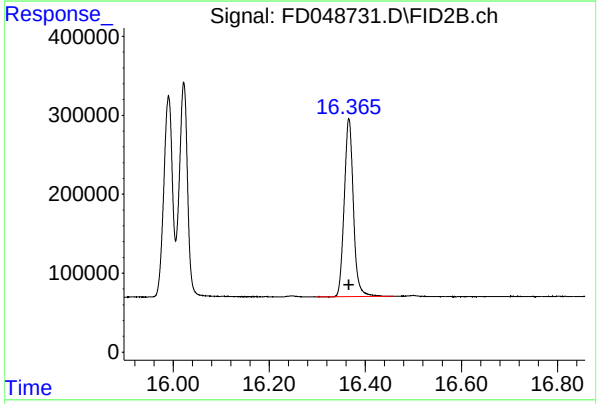
R.T.: 15.990 min
Delta R.T.: 0.000 min
Response: 3155598
Conc: 20.00 ug/ml



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

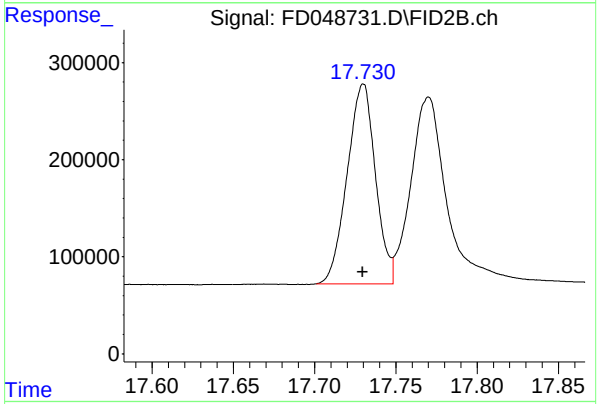
R.T.: 16.022 min
Delta R.T.: 0.000 mi
Response: 3220964
Conc: 20.00 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD3



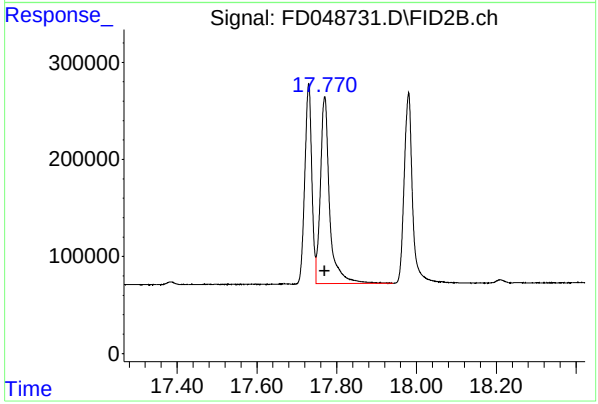
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.366 min
Delta R.T.: 0.000 min
Response: 2984019
Conc: 20.00 ug/ml



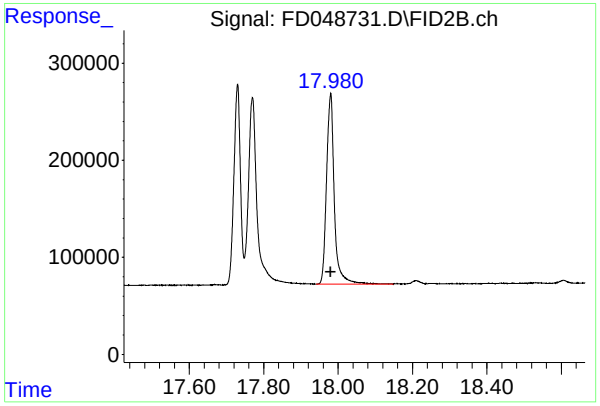
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.730 min
Delta R.T.: 0.000 min
Response: 2492029
Conc: 20.00 ug/ml



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

R.T.: 17.770 min
Delta R.T.: 0.000 min
Response: 3091940
Conc: 20.00 ug/ml



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

R.T.: 17.980 min
Delta R.T.: 0.000 mi
Response: 2846208
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\FD111424AR\
Data File : FD048731.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 11:51
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 111424.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	4.189	4.161	4.278	BB	437777	3725913	96.15%	5.229%
2	5.706	5.504	5.874	BB	410892	3875111	100.00%	5.439%
3	6.752	6.718	6.874	VV	383306	3783290	97.63%	5.310%
4	7.365	7.268	7.508	BB	358504	3482492	89.87%	4.888%
5	8.018	7.987	8.061	PV	385080	3802878	98.14%	5.337%
6	8.215	8.158	8.282	BV	225425	2283559	58.93%	3.205%
7	8.312	8.282	8.411	VV	381333	3777137	97.47%	5.301%
8	9.091	9.034	9.201	BV	364311	3788895	97.78%	5.318%
9	10.478	10.320	10.523	VV	349456	3619123	93.39%	5.079%
10	10.553	10.523	10.708	VV	325247	3688027	95.17%	5.176%
11	11.250	11.148	11.311	BB	352977	3765042	97.16%	5.284%
12	12.282	12.251	12.401	PB	314199	3589859	92.64%	5.038%
13	12.574	12.504	12.623	BV	314367	3530762	91.11%	4.955%
14	14.443	14.399	14.463	PV	291252	3309617	85.41%	4.645%
15	14.485	14.463	14.644	VB	285404	3438362	88.73%	4.826%
16	15.990	15.961	16.006	BV	254269	3155598	81.43%	4.429%
17	16.022	16.006	16.138	VB	270938	3220964	83.12%	4.521%
18	16.366	16.298	16.458	BV	225537	2984019	77.00%	4.188%
19	17.730	17.701	17.748	BV	208499	2492029	64.31%	3.498%
20	17.770	17.748	17.941	VV	193652	3091940	79.79%	4.340%
21	17.980	17.941	18.148	VB	198480	2846208	73.45%	3.995%
			Sum of corrected areas:			71250824		

Aromatic EPH 111424.M Fri Nov 15 02:37:36 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048732.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 12:27
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

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 13:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:17:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.365	1863801	10.821 ug/ml
Spiked Amount	50.000		Recovery =	21.64%
6) S	2-Flurobiphenyl (SURR)	8.215	1201178	10.554 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	21.11%
11) S	ortho-Terphenyl (SURR)	11.249	2040759	10.910 ug/ml
Spiked Amount	50.000		Recovery =	21.82%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	1983747	10.728 ug/ml
2) T	Naphthalene (C11.7)	5.706	2064735	10.722 ug/ml
3) T	2-Methylnaphthalene (...	6.752	2042165	10.825 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	2046764	10.849 ug/mlm
7) T	Acenaphthene (C15.5)	8.311	2041539	10.874 ug/ml
8) T	Flouorene (C16.55)	9.090	2022487	10.732 ug/ml
9) T	Phenanthrene (C19.36)	10.476	1926152	10.709 ug/ml
10) T	Anthracene (C19.43)	10.552	1984238	10.885 ug/ml
12) T	Fluoranthene (C21.85)	12.281	1932115	10.839 ug/ml
13) T	Pyrene (C20.8)	12.574	1881150	10.713 ug/ml
14) T	Benzo[a]anthracene (C...	14.443	1716582	10.495 ug/ml
15) T	Chrysene (C27.41)	14.484	1873731	11.079 ug/ml
16) T	benzo[b]fluoranthene ...	15.988	1642501	10.583 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.019	1721554	10.948 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	1568595	10.709 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	1231117	9.811 ug/ml
20) T	Dibenz[a,h]anthracene...	17.772	1732686	11.625 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.981	1511827	10.839 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048732.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 12:27
Operator : YP/AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 64 Sample Multiplier: 1

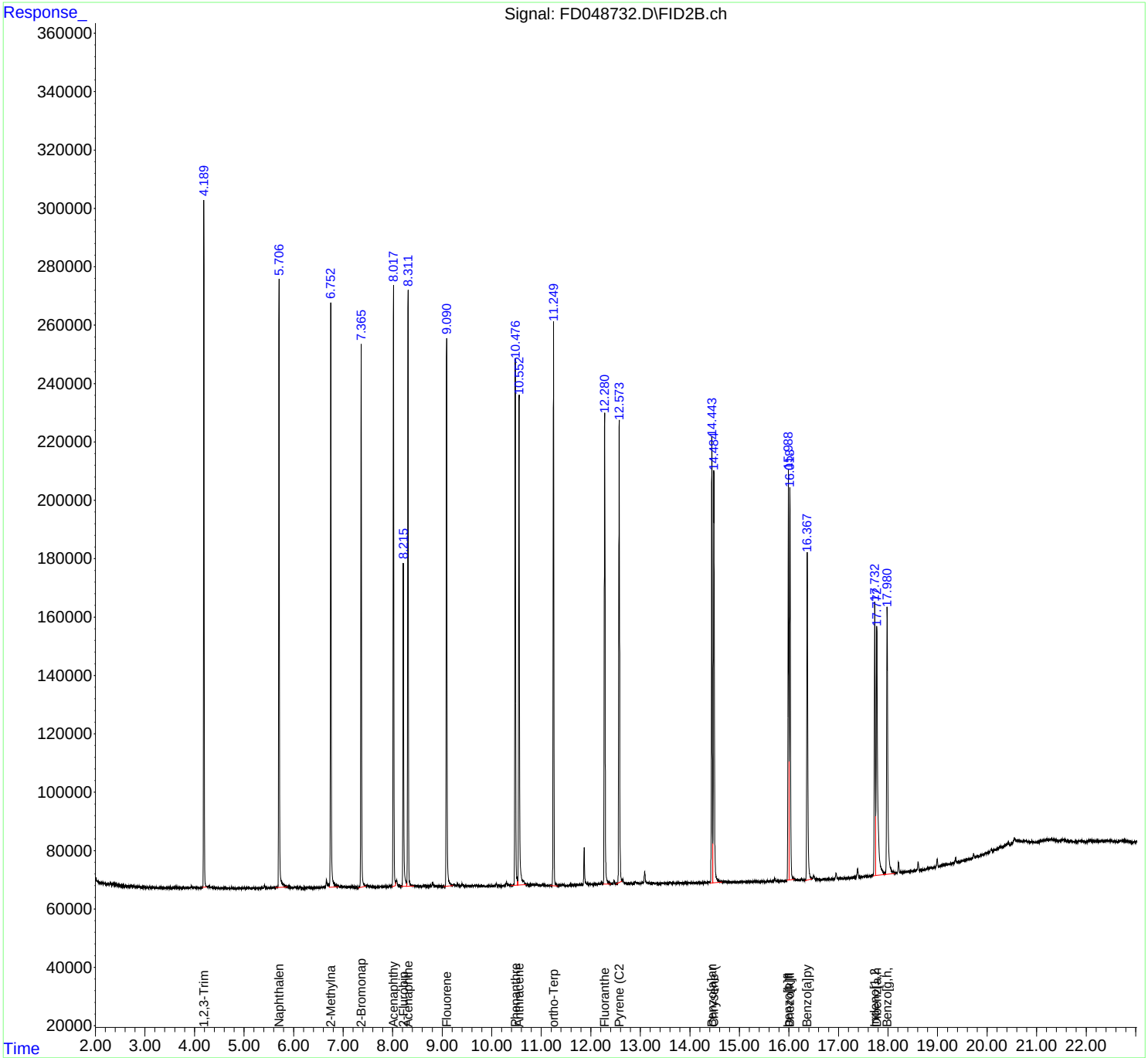
Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

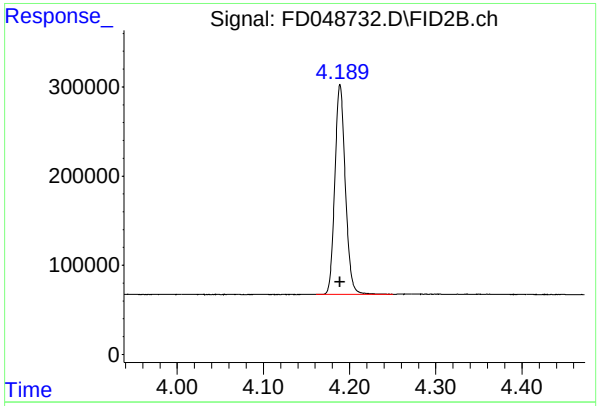
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 13:17:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 13:17:05 2024
Response via : Initial Calibration
Integrator: ChemStation

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





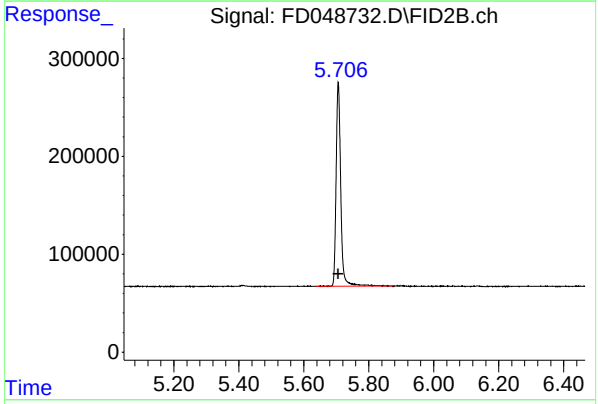
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.189 min
Delta R.T.: 0.000 min
Response: 1983747
Conc: 10.73 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

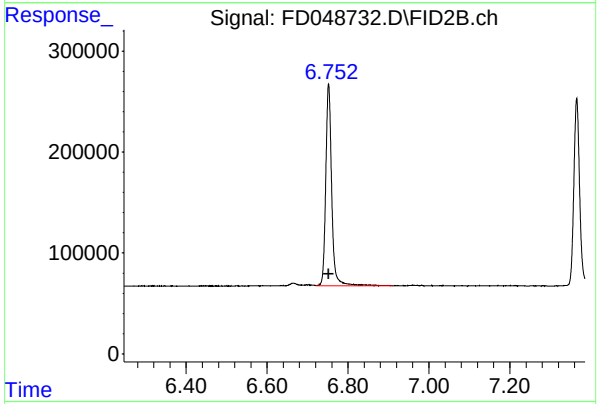
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



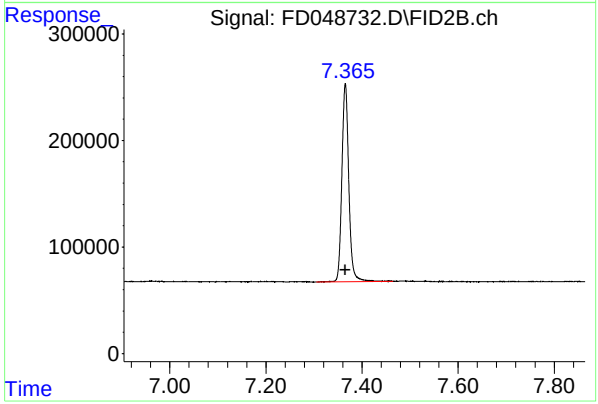
#2 Naphthalene (C11.7)

R.T.: 5.706 min
Delta R.T.: 0.000 min
Response: 2064735
Conc: 10.72 ug/ml



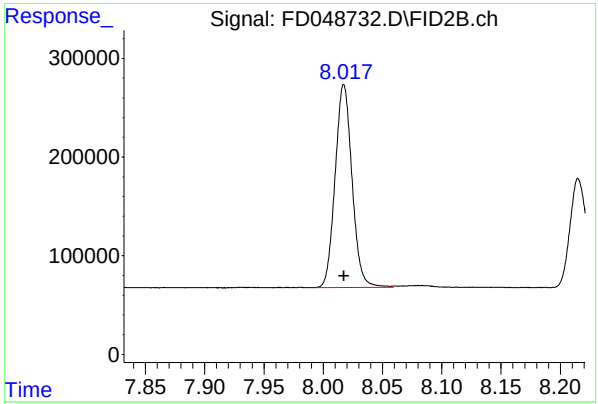
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.752 min
Delta R.T.: 0.000 min
Response: 2042165
Conc: 10.83 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 1863801
Conc: 10.82 ug/ml



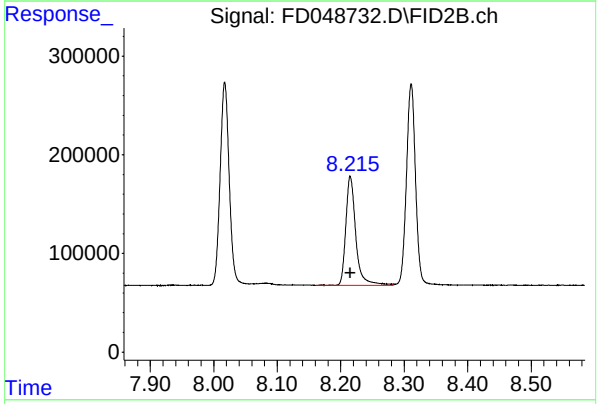
#5 Acenaphthylene (C15.06)

R.T.: 8.017 min
Delta R.T.: 0.000 min
Response: 2046764
Conc: 10.85 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

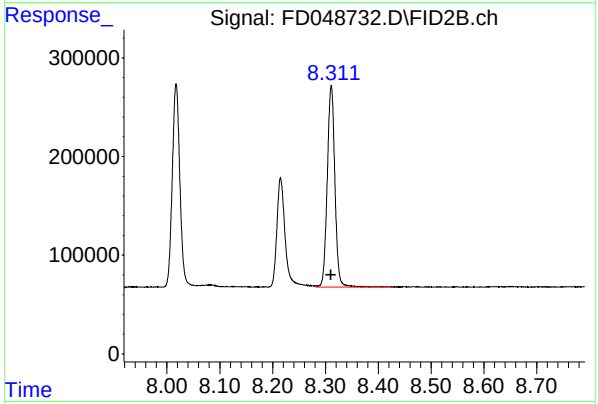
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



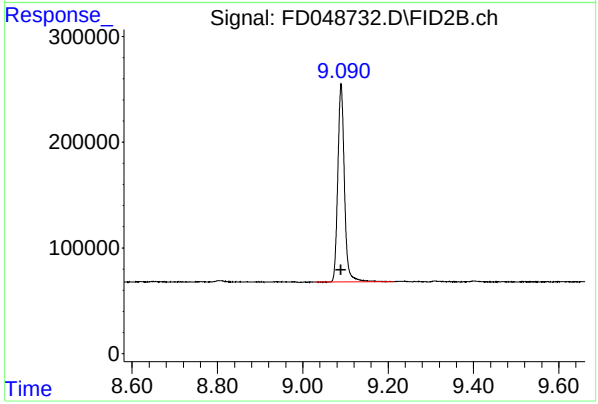
#6 2-Flurobiphenyl (SURR)

R.T.: 8.215 min
Delta R.T.: 0.000 min
Response: 1201178
Conc: 10.55 ug/ml



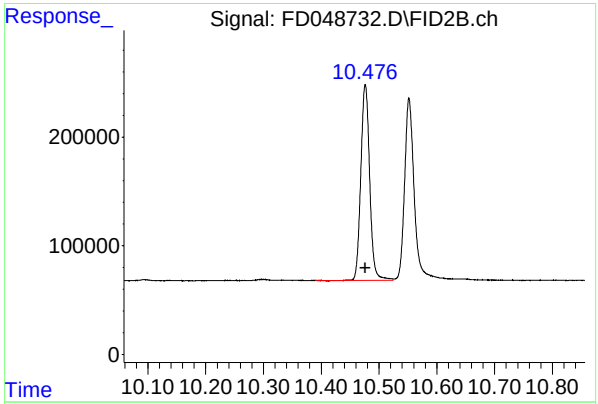
#7 Acenaphthene (C15.5)

R.T.: 8.311 min
Delta R.T.: 0.000 min
Response: 2041539
Conc: 10.87 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.090 min
Delta R.T.: 0.000 min
Response: 2022487
Conc: 10.73 ug/ml



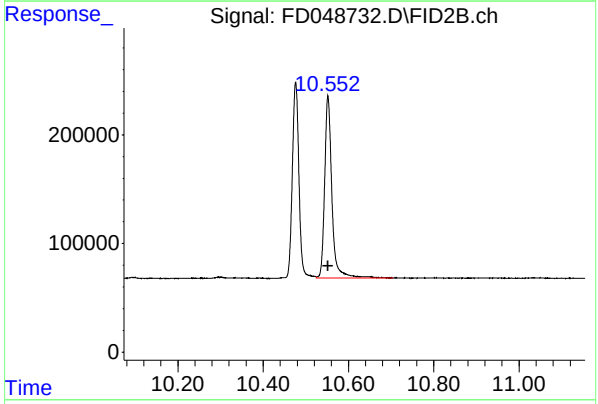
#9 Phenanthrene (C19.36)

R.T.: 10.476 min
Delta R.T.: 0.000 min
Response: 1926152
Conc: 10.71 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

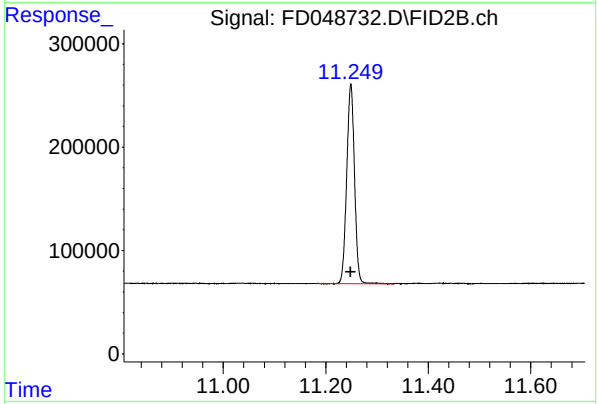
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



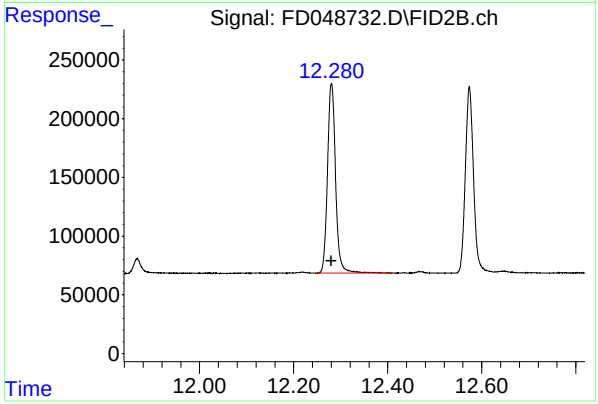
#10 Anthracene (C19.43)

R.T.: 10.552 min
Delta R.T.: 0.000 min
Response: 1984238
Conc: 10.89 ug/ml



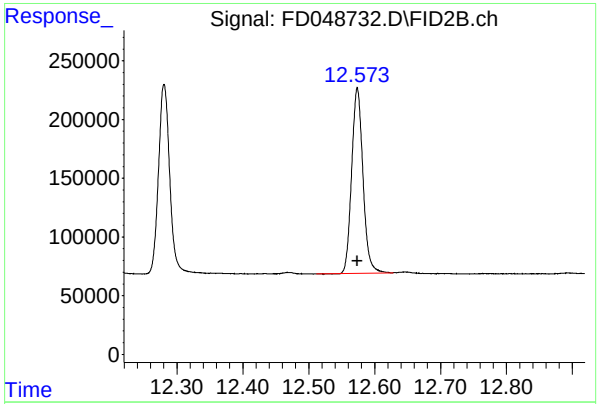
#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 2040759
Conc: 10.91 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.281 min
Delta R.T.: 0.000 min
Response: 1932115
Conc: 10.84 ug/ml



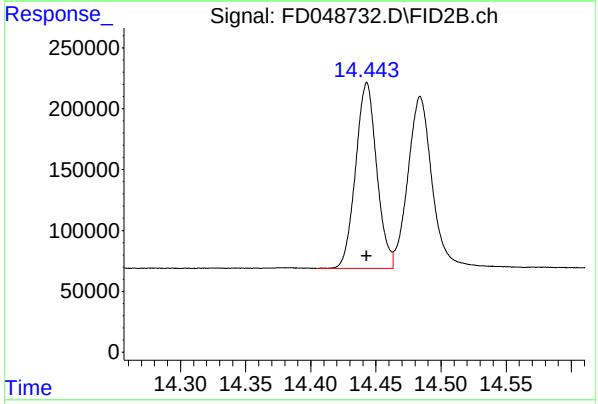
#13 Pyrene (C20.8)

R.T.: 12.574 min
Delta R.T.: 0.000 min
Response: 1881150
Conc: 10.71 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

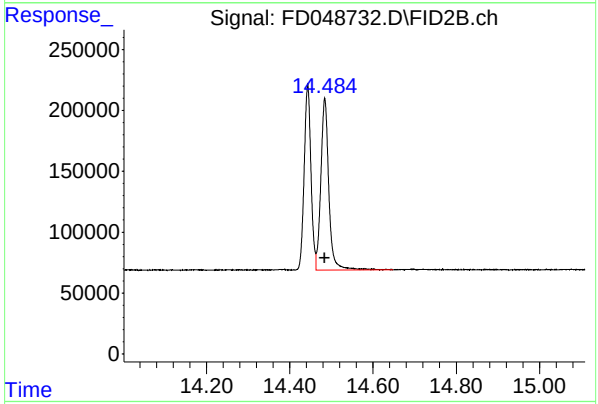
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



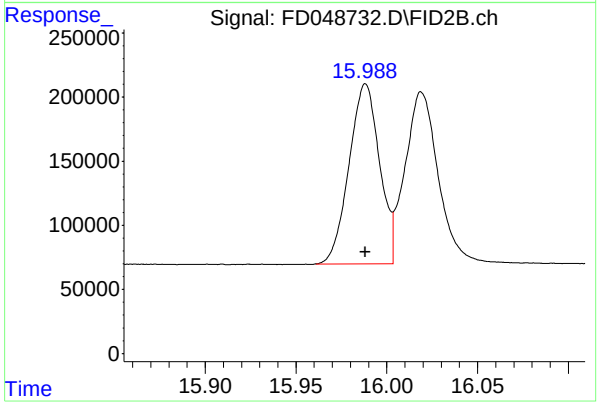
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.443 min
Delta R.T.: 0.000 min
Response: 1716582
Conc: 10.49 ug/ml



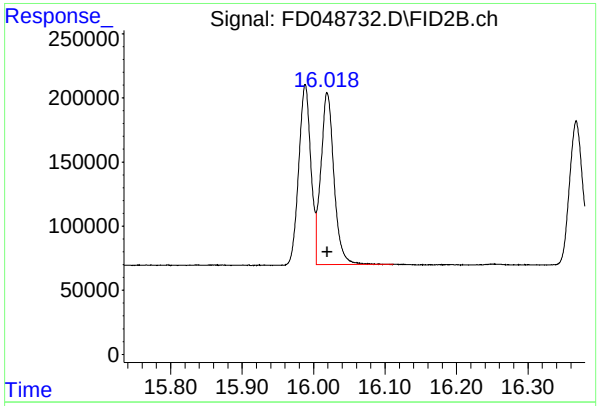
#15 Chrysene (C27.41)

R.T.: 14.484 min
Delta R.T.: 0.000 min
Response: 1873731
Conc: 11.08 ug/ml



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

R.T.: 15.988 min
Delta R.T.: 0.000 min
Response: 1642501
Conc: 10.58 ug/ml



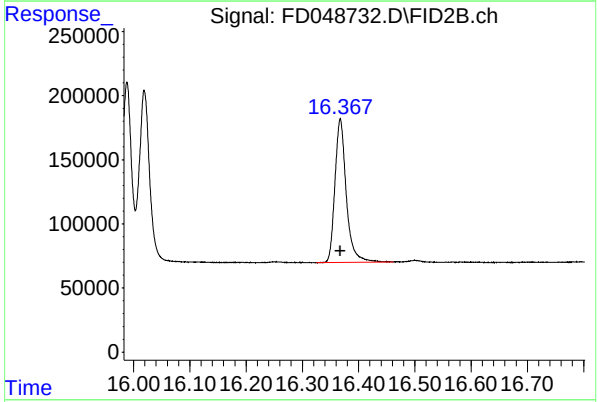
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.019 min
Delta R.T.: 0.000 min
Response: 1721554
Conc: 10.95 ug/ml

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

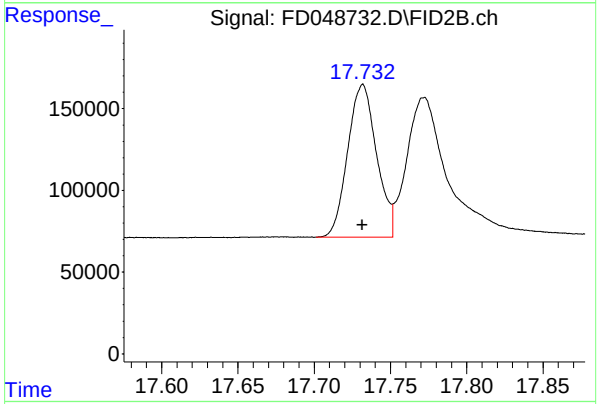
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



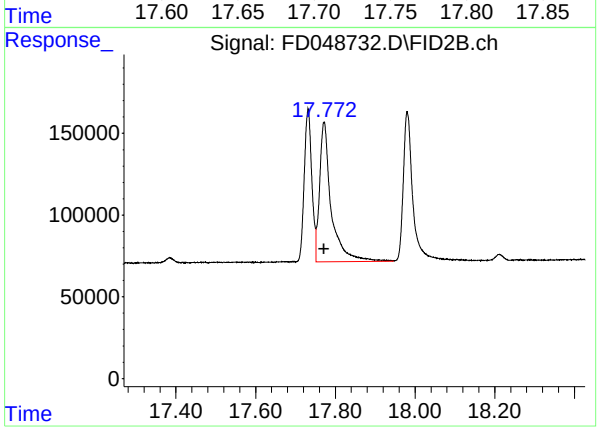
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.368 min
Delta R.T.: 0.000 min
Response: 1568595
Conc: 10.71 ug/ml



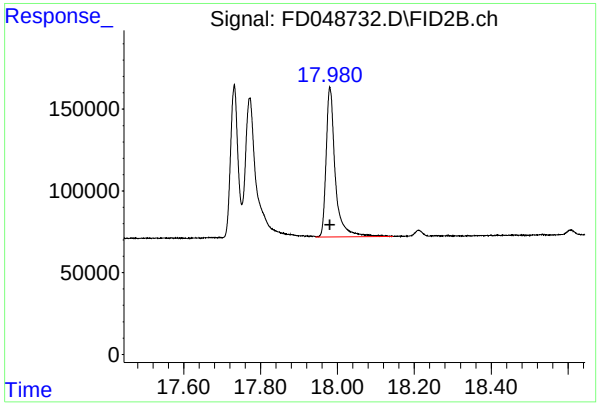
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.732 min
Delta R.T.: 0.000 min
Response: 1231117
Conc: 9.81 ug/ml



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

R.T.: 17.772 min
Delta R.T.: 0.000 min
Response: 1732686
Conc: 11.62 ug/ml



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

R.T.: 17.981 min
Delta R.T.: 0.000 mi
Response: 1511827
Conc: 10.84 ug/m

Instrument :
FID_D
ClientSampleId :
10 PPM AROMATIC HC STD4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Instrument :
FID_D
LabSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11142
Data File : FD048732.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 12:27
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 111424.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	4.189	4.161	4.250	BV	233609	1983747	96.08%	5.224%
2	5.706	5.638	5.874	BB	205733	2064735	100.00%	5.437%
3	6.752	6.721	6.911	VB	199787	2042165	98.91%	5.378%
4	7.365	7.304	7.464	BV	185172	1863801	90.27%	4.908%
5	8.017	7.908	8.058	BV	204705	1990251	96.39%	5.241%
6	8.215	8.161	8.282	BV	110440	1201178	58.18%	3.163%
7	8.311	8.282	8.428	VB	204004	2041539	98.88%	5.376%
8	9.090	9.031	9.211	BV	185906	2022487	97.95%	5.326%
9	10.476	10.391	10.524	BV	179662	1926152	93.29%	5.072%
10	10.552	10.524	10.704	VB	167359	1984238	96.10%	5.225%
11	11.249	11.181	11.331	BB	191260	2040759	98.84%	5.374%
12	12.281	12.248	12.411	PB	161313	1932115	93.58%	5.088%
13	12.574	12.511	12.628	BV	157685	1881150	91.11%	4.954%
14	14.443	14.404	14.463	PV	152971	1716582	83.14%	4.521%
15	14.484	14.463	14.648	VB	141132	1873731	90.75%	4.934%
16	15.988	15.961	16.004	BV	140342	1642501	79.55%	4.325%
17	16.019	16.004	16.111	VB	134248	1721554	83.38%	4.534%
18	16.368	16.324	16.461	BV	112062	1568595	75.97%	4.131%
19	17.732	17.701	17.752	BV	92959	1231117	59.63%	3.242%
20	17.772	17.752	17.944	VV	85540	1732686	83.92%	4.563%
21	17.981	17.944	18.144	VB	90909	1511827	73.22%	3.981%
			Sum of corrected areas:			37972909		

Aromatic EPH 111424.M Fri Nov 15 02:38:18 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048733.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:03
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 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:15:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.366	956649	5.434 ug/ml
Spiked Amount	50.000		Recovery =	10.87%
6) S	2-Flurobiphenyl (SURR)	8.218	602930	5.235 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	10.47%
11) S	ortho-Terphenyl (SURR)	11.249	1067441	5.550 ug/ml
Spiked Amount	50.000		Recovery =	11.10%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	1013256	5.376 ug/ml
2) T	Naphthalene (C11.7)	5.708	1037837	5.307 ug/ml
3) T	2-Methylnaphthalene (...	6.754	1004705	5.257 ug/ml
5) T	Acenaphthylene (C15.06)	8.018	1046849	5.401 ug/mlm
7) T	Acenaphthene (C15.5)	8.311	1053869	5.479 ug/ml
8) T	Flouorene (C16.55)	9.091	1027378	5.355 ug/ml
9) T	Phenanthrene (C19.36)	10.478	985284	5.375 ug/ml
10) T	Anthracene (C19.43)	10.555	1036004	5.532 ug/ml
12) T	Fluoranthene (C21.85)	12.283	1012953	5.532 ug/ml
13) T	Pyrene (C20.8)	12.575	1008015	5.576 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	841277	5.114 ug/ml
15) T	Chrysene (C27.41)	14.484	992963	5.674 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	823966	5.244 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	934929	5.729 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.373	798077	5.353 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.737	578696	4.685 ug/ml
20) T	Dibenz[a,h]anthracene...	17.779	939261	5.990 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.984	777679	5.450 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048733.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:03
Operator : YP/AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 65 Sample Multiplier: 1

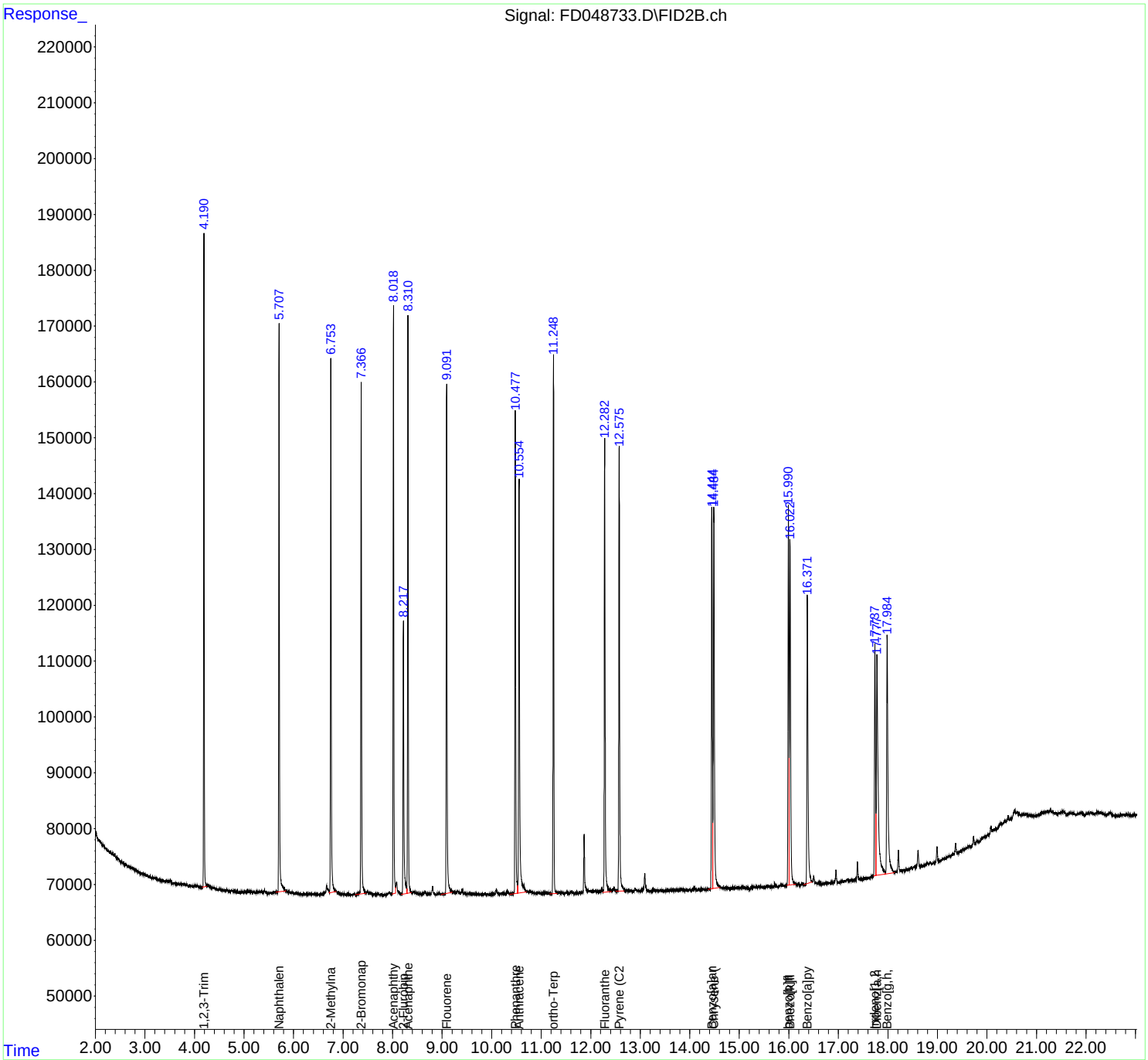
Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

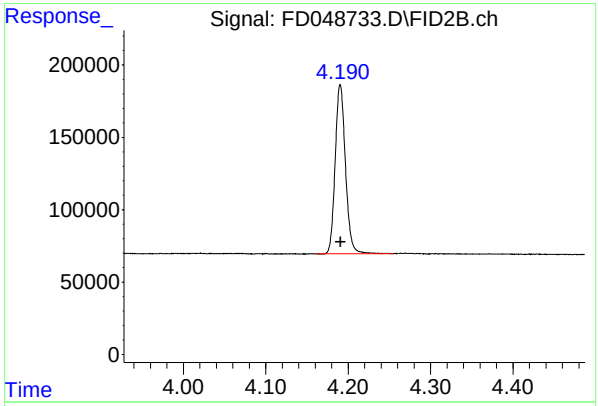
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Integration File: autoint1.e
Quant Time: Nov 14 14:15:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:14:59 2024
Response via : Initial Calibration
Integrator: ChemStation

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





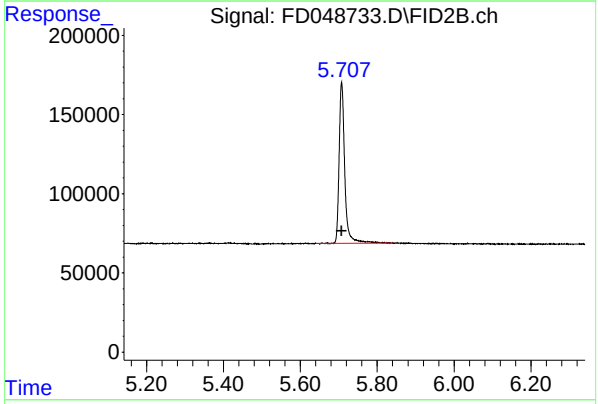
#1 1,2,3-Trimethylbenzene (C10.1)

R.T.: 4.191 min
Delta R.T.: 0.000 min
Response: 1013256
Conc: 5.38 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

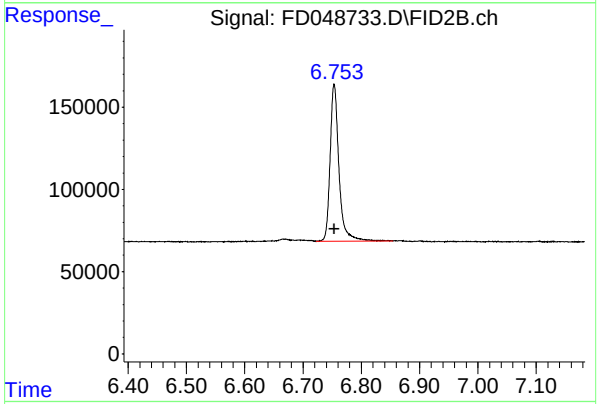
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



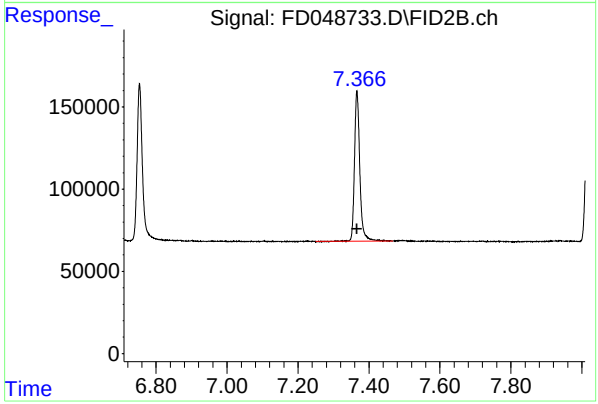
#2 Naphthalene (C11.7)

R.T.: 5.708 min
Delta R.T.: 0.000 min
Response: 1037837
Conc: 5.31 ug/ml



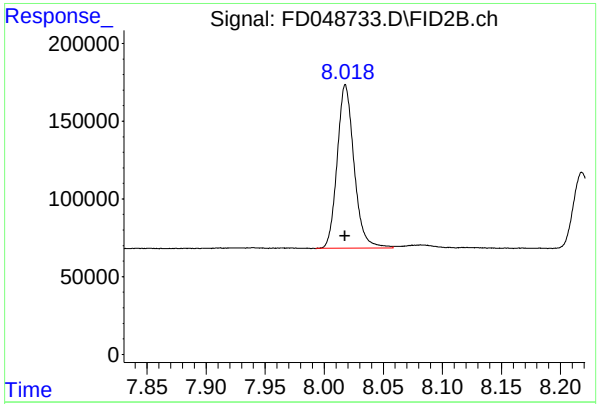
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.754 min
Delta R.T.: 0.000 min
Response: 1004705
Conc: 5.26 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 7.366 min
Delta R.T.: 0.000 min
Response: 956649
Conc: 5.43 ug/ml



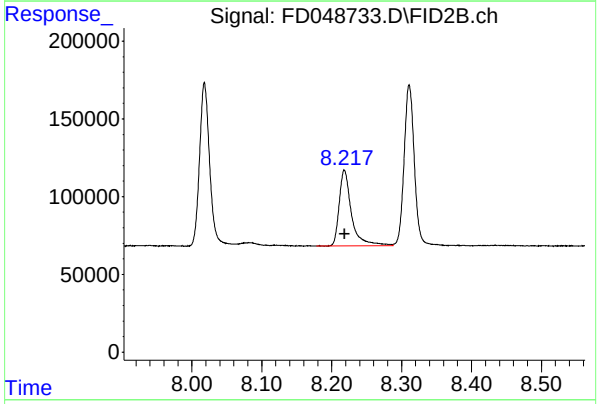
#5 Acenaphthylene (C15.06)

R.T.: 8.018 min
Delta R.T.: 0.000 min
Response: 1046849
Conc: 5.40 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

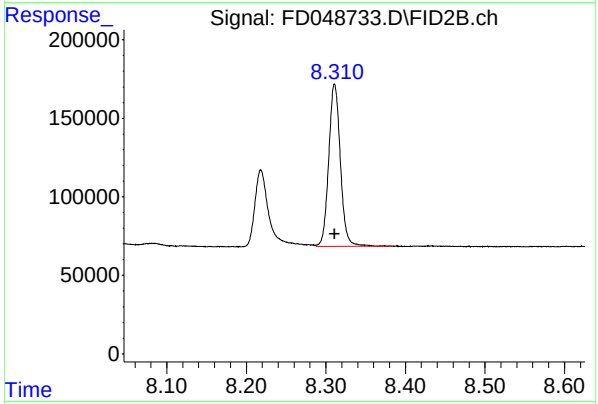
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



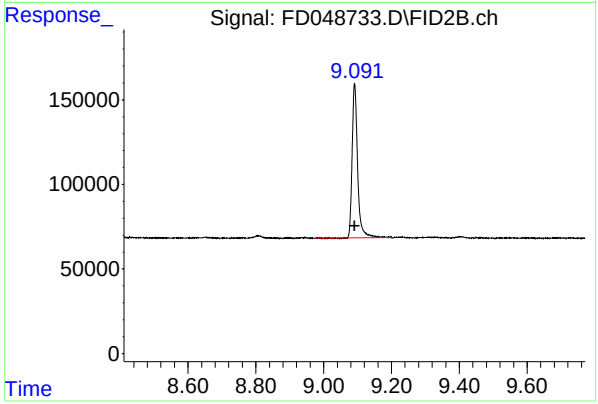
#6 2-Flurobiphenyl (SURR)

R.T.: 8.218 min
Delta R.T.: 0.000 min
Response: 602930
Conc: 5.24 ug/ml



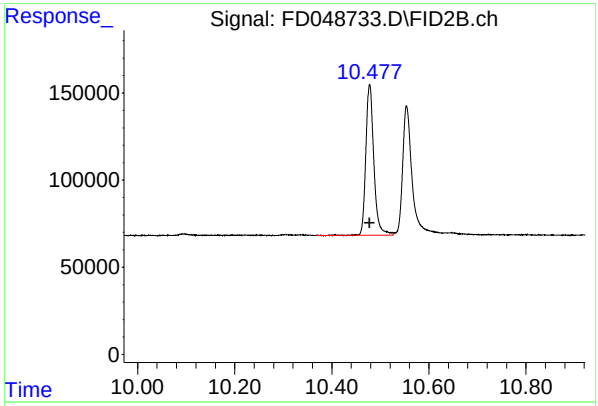
#7 Acenaphthene (C15.5)

R.T.: 8.311 min
Delta R.T.: 0.000 min
Response: 1053869
Conc: 5.48 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.091 min
Delta R.T.: 0.000 min
Response: 1027378
Conc: 5.36 ug/ml



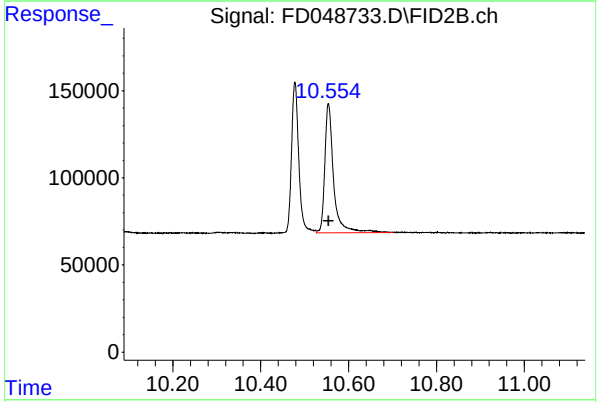
#9 Phenanthrene (C19.36)

R.T.: 10.478 min
Delta R.T.: 0.000 min
Response: 985284
Conc: 5.38 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

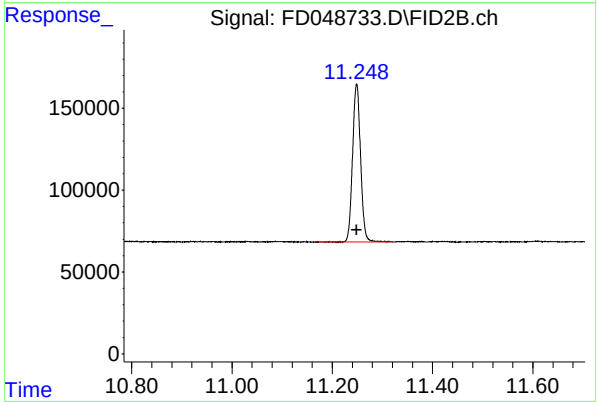
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



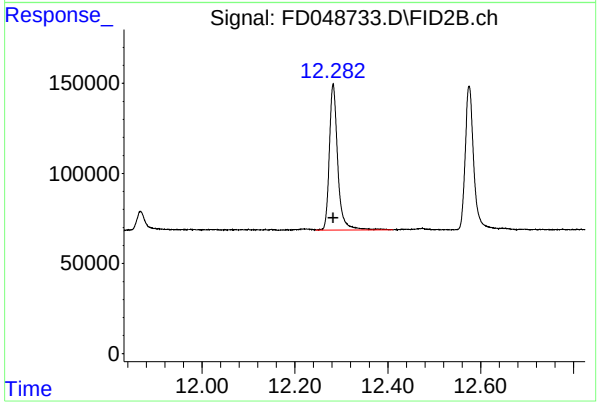
#10 Anthracene (C19.43)

R.T.: 10.555 min
Delta R.T.: 0.000 min
Response: 1036004
Conc: 5.53 ug/ml



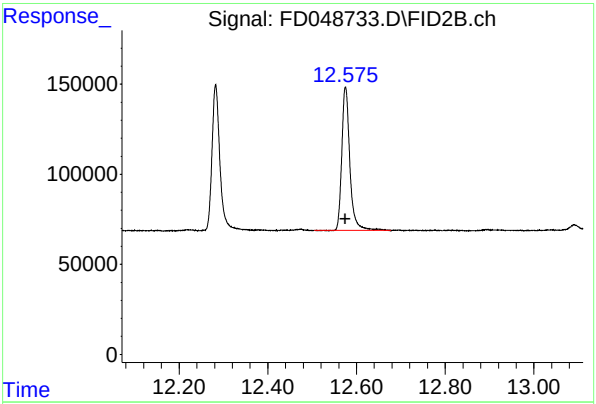
#11 ortho-Terphenyl (SURR)

R.T.: 11.249 min
Delta R.T.: 0.000 min
Response: 1067441
Conc: 5.55 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 12.283 min
Delta R.T.: 0.000 min
Response: 1012953
Conc: 5.53 ug/ml



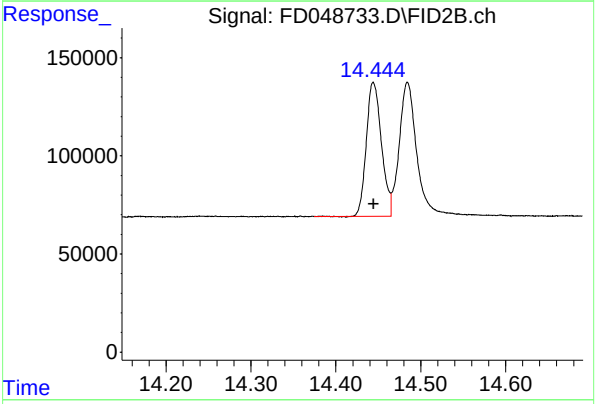
#13 Pyrene (C20.8)

R.T.: 12.575 min
Delta R.T.: 0.000 min
Response: 1008015
Conc: 5.58 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

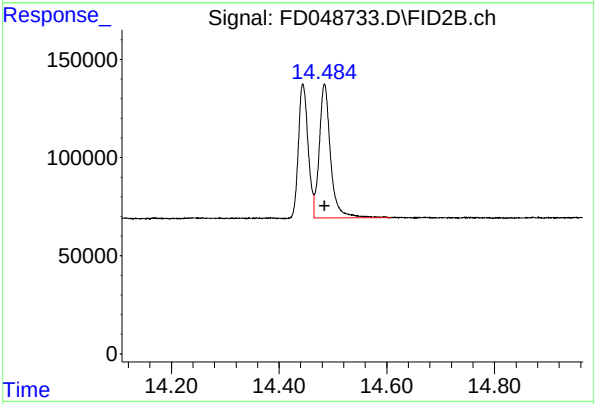
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



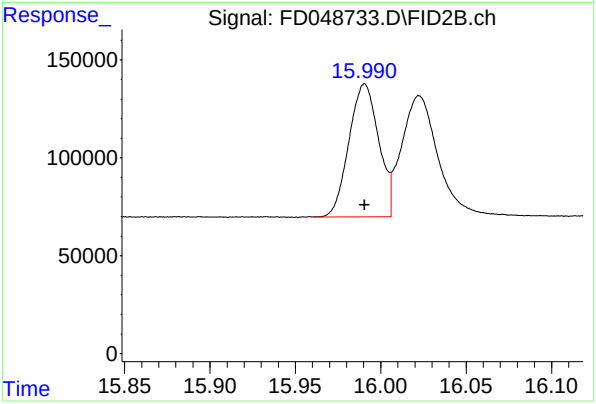
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: 0.000 min
Response: 841277
Conc: 5.11 ug/ml



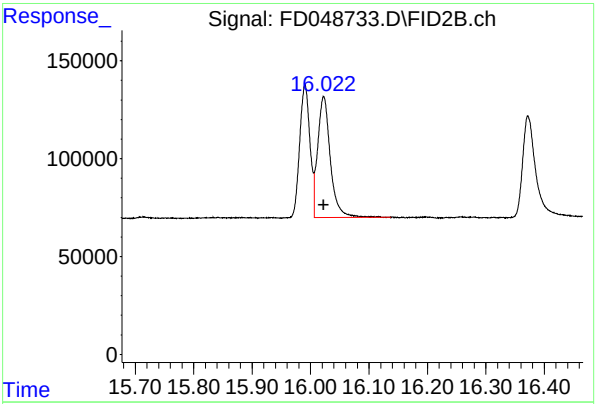
#15 Chrysene (C27.41)

R.T.: 14.484 min
Delta R.T.: 0.000 min
Response: 992963
Conc: 5.67 ug/ml



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

R.T.: 15.991 min
Delta R.T.: 0.000 min
Response: 823966
Conc: 5.24 ug/ml



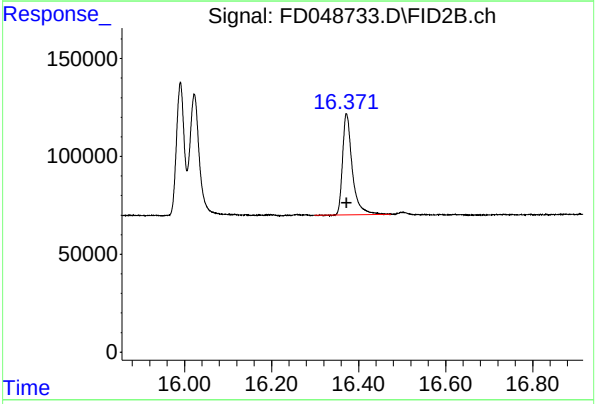
#17 Bnezo[k]fluoranthene (C30.14)

R.T.: 16.023 min
Delta R.T.: 0.000 min
Response: 934929
Conc: 5.73 ug/ml

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

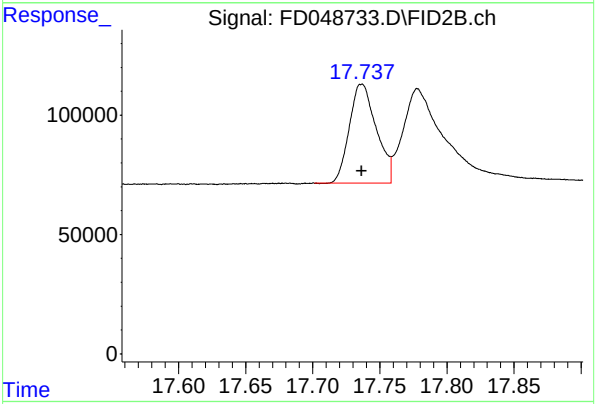
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024



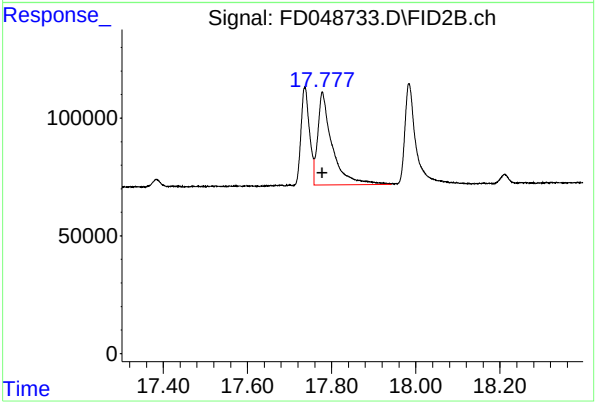
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.373 min
Delta R.T.: 0.000 min
Response: 798077
Conc: 5.35 ug/ml



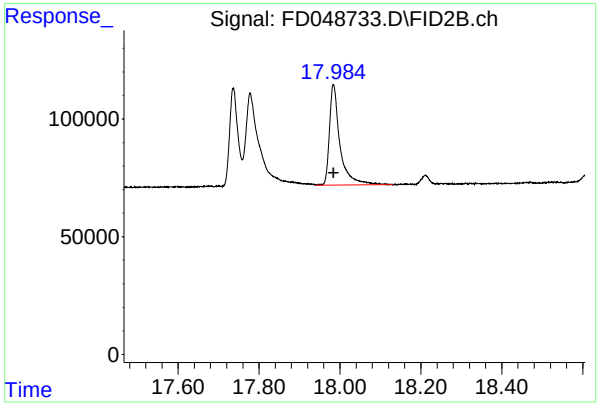
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.737 min
Delta R.T.: 0.000 min
Response: 578696
Conc: 4.68 ug/ml



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

R.T.: 17.779 min
Delta R.T.: 0.000 min
Response: 939261
Conc: 5.99 ug/ml



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

R.T.: 17.984 min
Delta R.T.: 0.000 mi
Response: 777679
Conc: 5.45 ug/m

Instrument :
FID_D
ClientSampleId :
5 PPM AROMATIC HC STD5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Instrument :
FID_D
LabSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/15/2024
Supervised By :Ankita Jodhani 11/15/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11142
Data File : FD048733.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:03
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 111424.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.191	4.161	4.254	BV	116503	1013460	94.97%	5.156%
2	5.708	5.468	5.881	BB	101464	1062095	99.53%	5.404%
3	6.754	6.722	6.888	VV	95110	1033950	96.89%	5.261%
4	7.366	7.254	7.468	PV	90022	967818	90.70%	4.924%
5	8.018	7.991	8.061	BV	105007	1055306	98.90%	5.369%
6	8.218	8.188	8.288	BV	48864	605370	56.73%	3.080%
7	8.311	8.288	8.401	VV	103482	1061536	99.48%	5.401%
8	9.091	9.061	9.204	BV	91282	1037710	97.25%	5.280%
9	10.478	10.423	10.526	PV	86515	986679	92.46%	5.020%
10	10.555	10.526	10.701	VB	73924	1038026	97.28%	5.281%
11	11.249	11.161	11.321	BV	96018	1067091	100.00%	5.429%
12	12.283	12.245	12.366	PV	80793	992105	92.97%	5.048%
13	12.575	12.544	12.678	PV	79897	1010468	94.69%	5.141%
14	14.445	14.410	14.465	PV	68221	849481	79.61%	4.322%
15	14.484	14.465	14.621	VB	68412	1002369	93.93%	5.100%
16	15.991	15.961	16.006	BV	68030	824535	77.27%	4.195%
17	16.023	16.006	16.151	VV	61813	944585	88.52%	4.806%
18	16.373	16.308	16.474	BV	51971	804914	75.43%	4.095%
19	17.737	17.701	17.758	BV	41491	578719	54.23%	2.944%
20	17.779	17.758	17.948	VV	39405	940654	88.15%	4.786%
21	17.984	17.948	18.132	VV	42709	777552	72.87%	3.956%
			Sum of corrected areas:			19654423		

Aromatic EPH 111424.M Fri Nov 15 02:40:01 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048734.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:49
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: Nov 14 16:39:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.364	3456068	19.630 ug/ml
Spiked Amount	50.000		Recovery =	39.26%
6) S	2-Flurobiphenyl (SURR)	8.214	2270429	19.714 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.43%
11) S	ortho-Terphenyl (SURR)	11.250	3749525	19.495 ug/ml
Spiked Amount	50.000		Recovery =	38.99%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.187	3665797	19.451 ug/ml
2) T	Naphthalene (C11.7)	5.704	3806037	19.461 ug/ml
3) T	2-Methylnaphthalene (...	6.751	3747892	19.612 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	3882404	20.020 ug/ml
7) T	Acenaphthene (C15.5)	8.311	3740654	19.448 ug/ml
8) T	Flouorene (C16.55)	9.090	3756678	19.581 ug/ml
9) T	Phenanthrene (C19.36)	10.477	3562885	19.437 ug/ml
10) T	Anthracene (C19.43)	10.553	3563171	19.027 ug/ml
12) T	Fluoranthene (C21.85)	12.282	3573927	19.517 ug/ml
13) T	Pyrene (C20.8)	12.575	3507964	19.403 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	3271243	19.886 ug/ml
15) T	Chrysene (C27.41)	14.486	3405535	19.459 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3111443	19.803 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.022	3204860	19.638 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.367	2937931	19.705 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.731	2442922	19.776 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	3068383	19.567 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.981	2827163	19.814 ug/ml

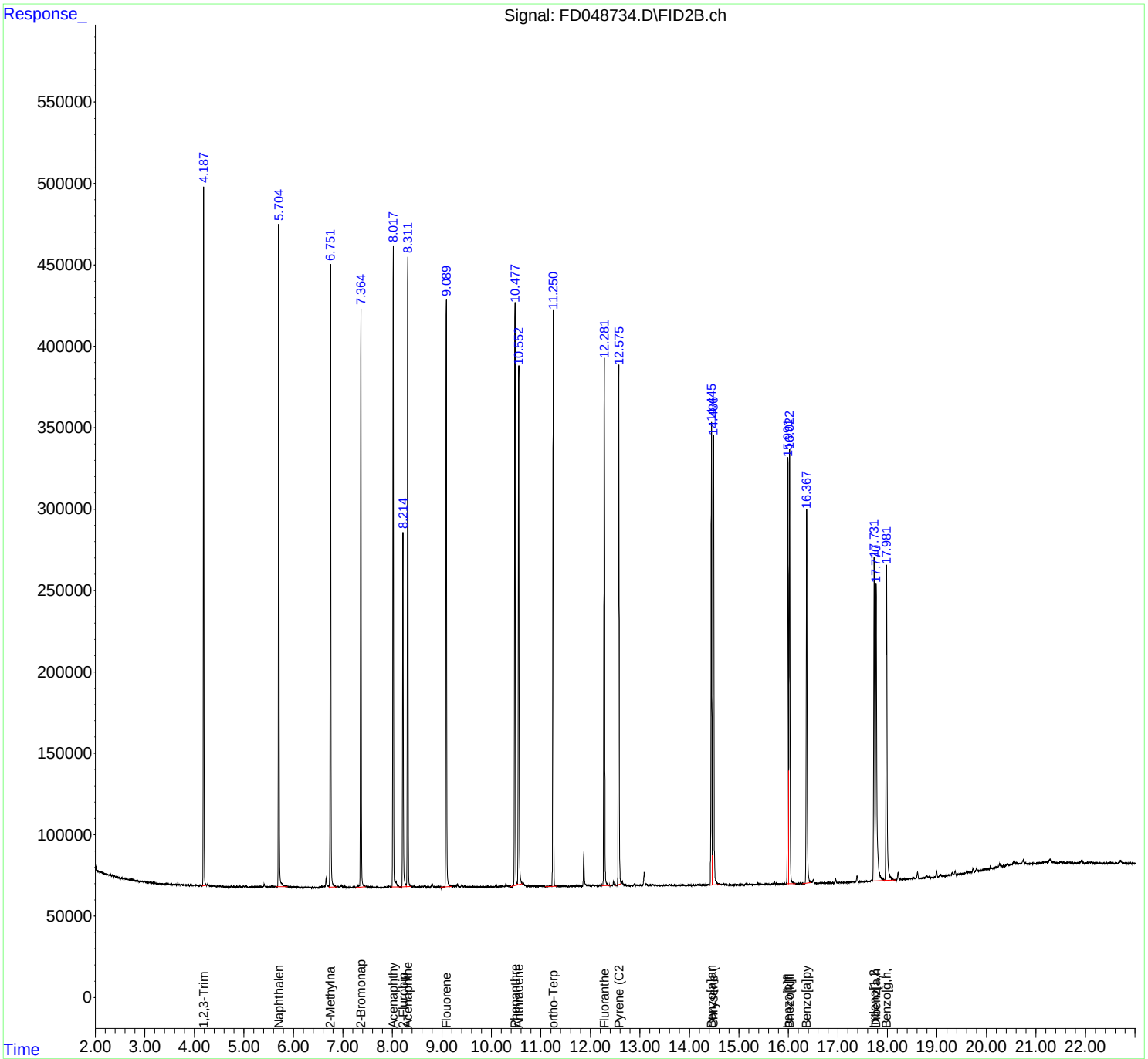
(f)=RT Delta > 1/2 Window (m)=manual int.

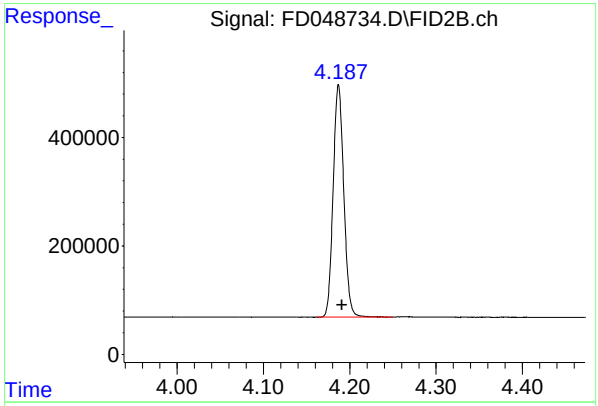
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048734.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 14 16:39:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

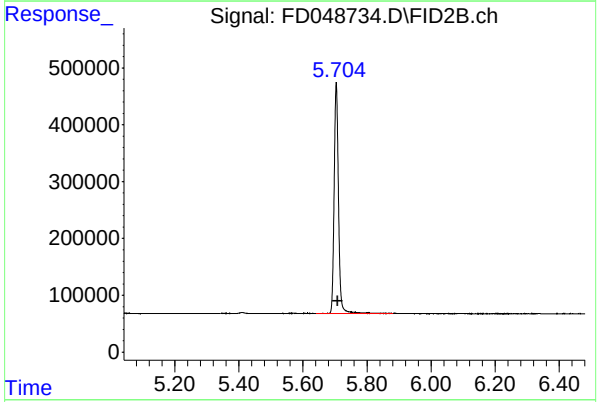




#1 1,2,3-Trimethylbenzene (C10.1)

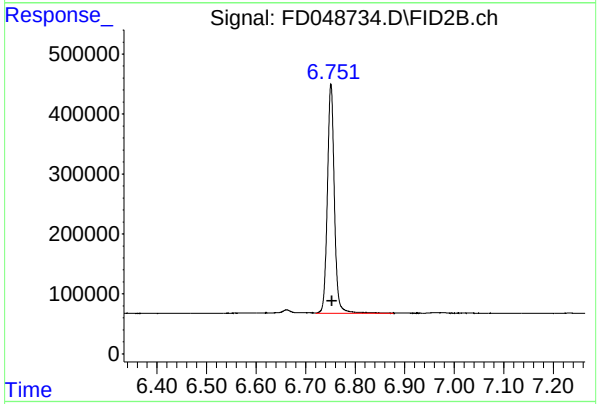
R.T.: 4.187 min
Delta R.T.: -0.004 min
Response: 3665797
Conc: 19.45 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



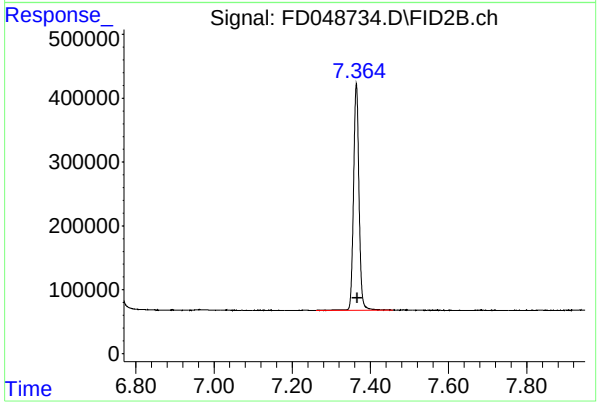
#2 Naphthalene (C11.7)

R.T.: 5.704 min
Delta R.T.: -0.003 min
Response: 3806037
Conc: 19.46 ug/ml



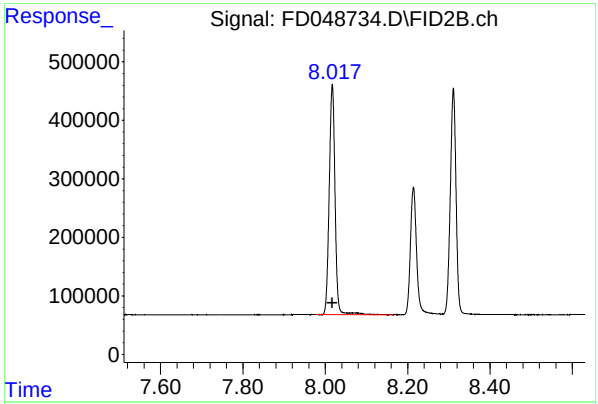
#3 2-Methylnaphthalene (C12.89)

R.T.: 6.751 min
Delta R.T.: -0.002 min
Response: 3747892
Conc: 19.61 ug/ml



#4 2-Bromonaphthalene (SURR)

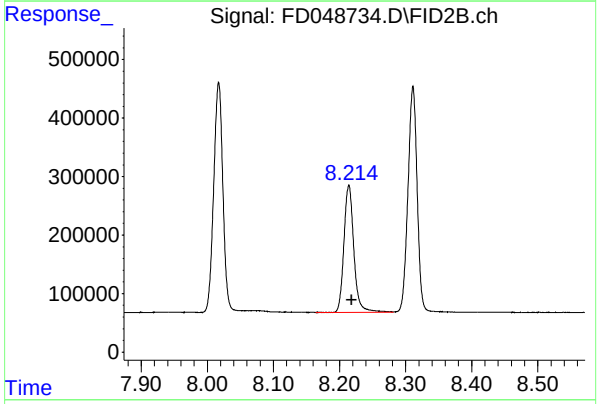
R.T.: 7.364 min
Delta R.T.: -0.002 min
Response: 3456068
Conc: 19.63 ug/ml



#5 Acenaphthylene (C15.06)

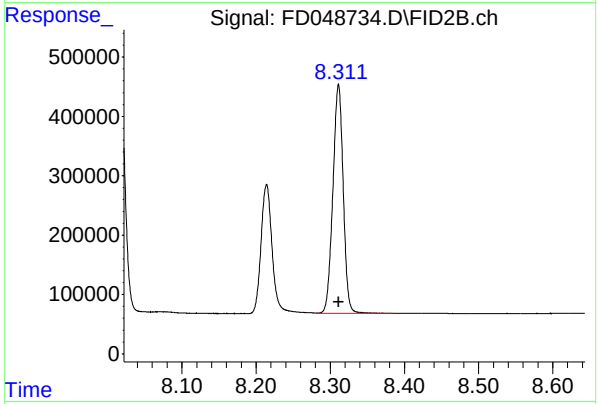
R.T.: 8.017 min
Delta R.T.: 0.000 min
Response: 3882404
Conc: 20.02 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



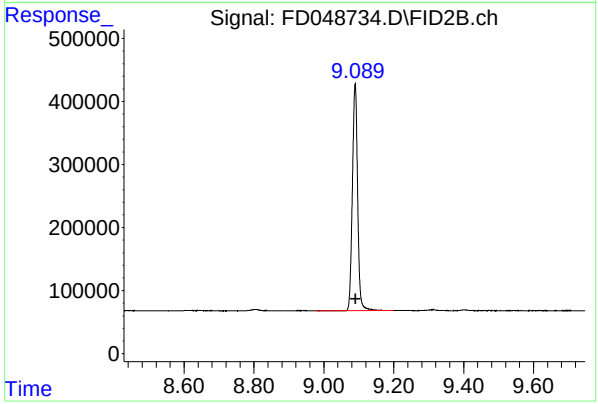
#6 2-Flurobiphenyl (SURR)

R.T.: 8.214 min
Delta R.T.: -0.004 min
Response: 2270429
Conc: 19.71 ug/ml



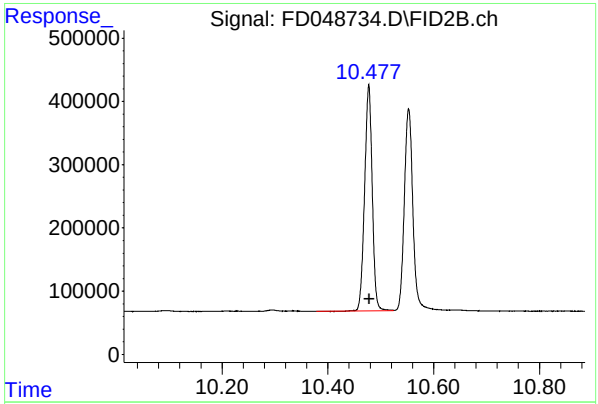
#7 Acenaphthene (C15.5)

R.T.: 8.311 min
Delta R.T.: 0.000 min
Response: 3740654
Conc: 19.45 ug/ml



#8 Flouorene (C16.55)

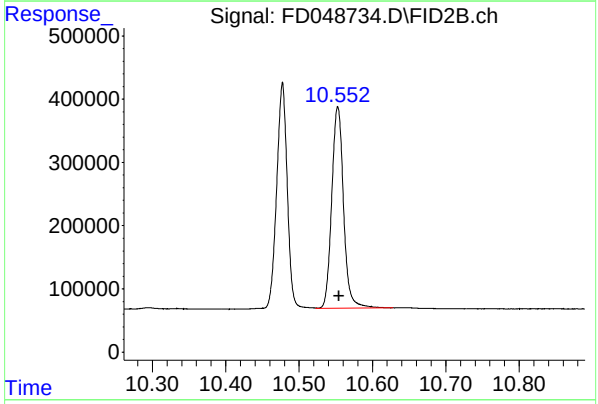
R.T.: 9.090 min
Delta R.T.: -0.002 min
Response: 3756678
Conc: 19.58 ug/ml



#9 Phenanthrene (C19.36)

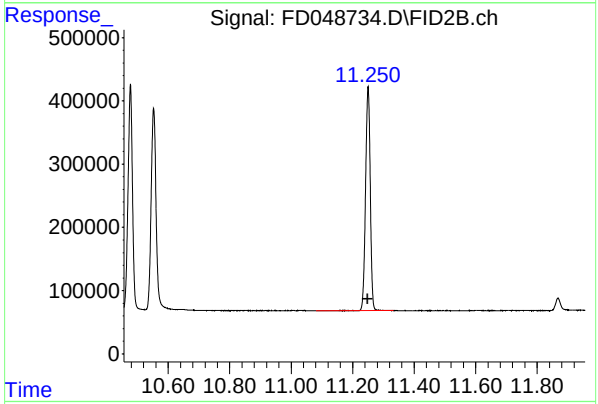
R.T.: 10.477 min
Delta R.T.: 0.000 min
Response: 3562885
Conc: 19.44 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



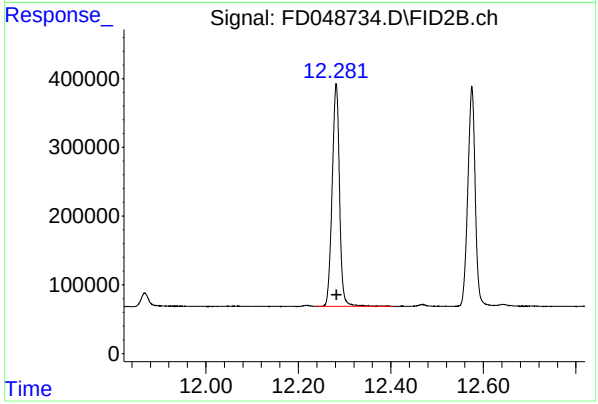
#10 Anthracene (C19.43)

R.T.: 10.553 min
Delta R.T.: -0.002 min
Response: 3563171
Conc: 19.03 ug/ml



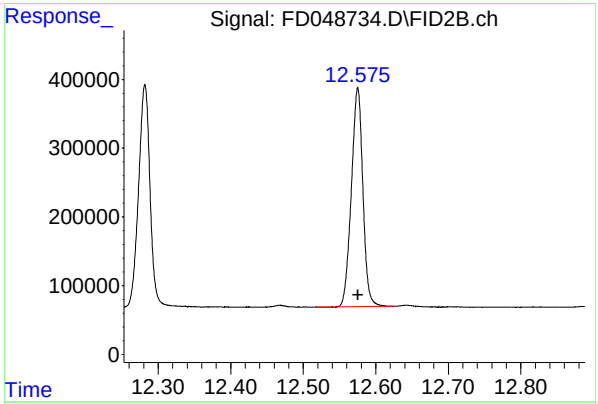
#11 ortho-Terphenyl (SURR)

R.T.: 11.250 min
Delta R.T.: 0.002 min
Response: 3749525
Conc: 19.49 ug/ml



#12 Fluoranthene (C21.85)

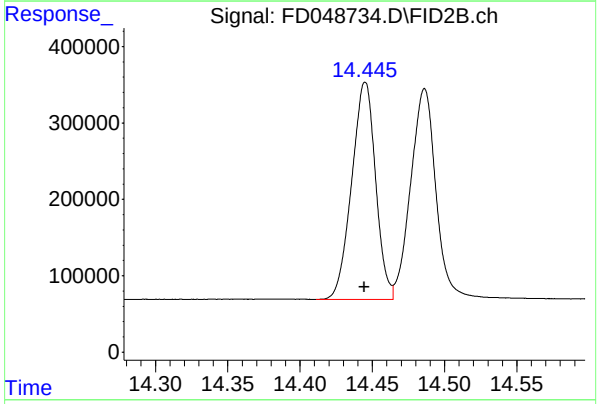
R.T.: 12.282 min
Delta R.T.: 0.000 min
Response: 3573927
Conc: 19.52 ug/ml



#13 Pyrene (C20.8)

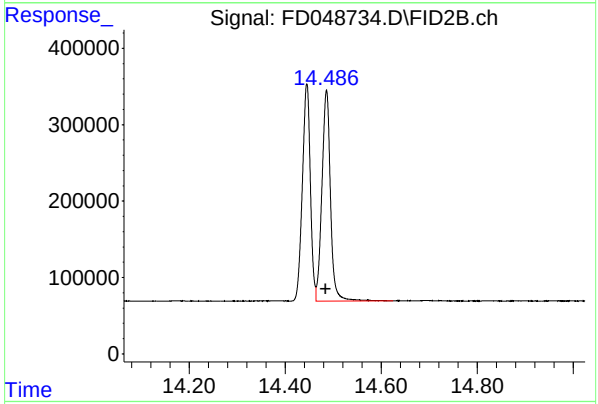
R.T.: 12.575 min
Delta R.T.: 0.000 min
Response: 3507964
Conc: 19.40 ug/ml

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



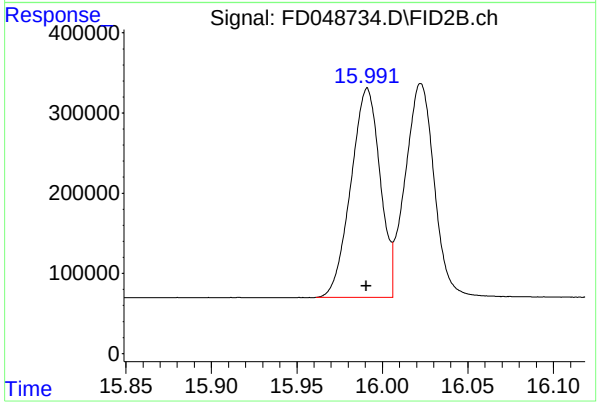
#14 Benzo[a]anthracene (C26.37)

R.T.: 14.445 min
Delta R.T.: 0.000 min
Response: 3271243
Conc: 19.89 ug/ml



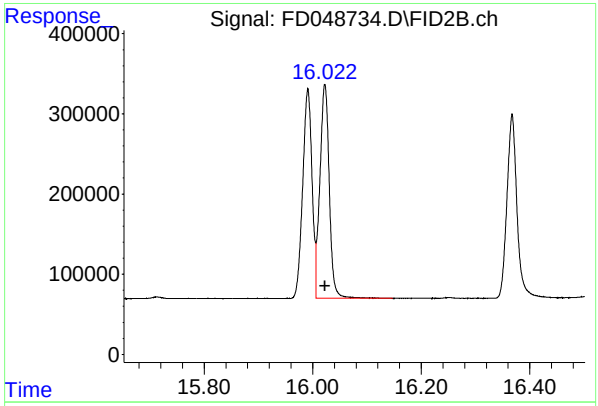
#15 Chrysene (C27.41)

R.T.: 14.486 min
Delta R.T.: 0.002 min
Response: 3405535
Conc: 19.46 ug/ml



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

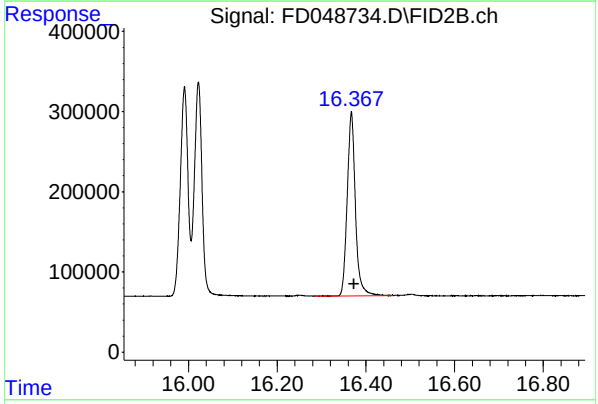
R.T.: 15.991 min
Delta R.T.: 0.000 min
Response: 3111443
Conc: 19.80 ug/ml



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

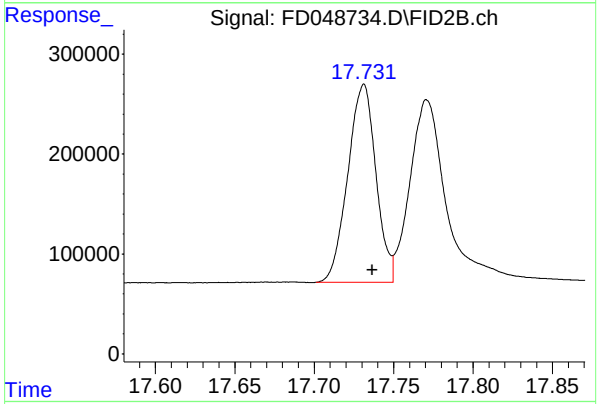
R.T.: 16.022 min
Delta R.T.: 0.000 mi
Response: 3204860
Conc: 19.64 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV



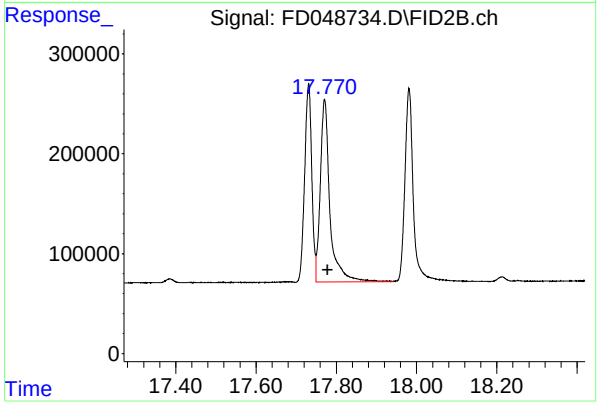
#18 Benzo[a]pyrene (C31.34)

R.T.: 16.367 min
Delta R.T.: -0.005 min
Response: 2937931
Conc: 19.70 ug/ml



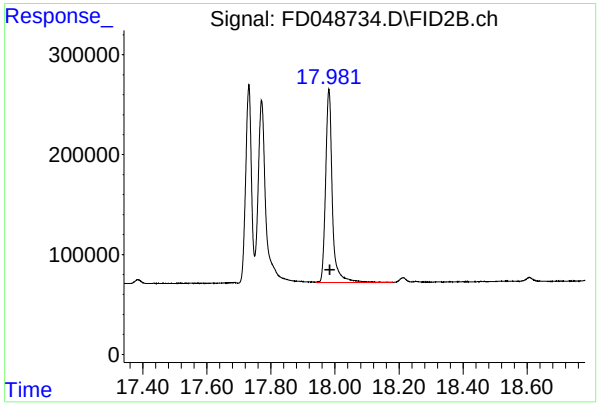
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 17.731 min
Delta R.T.: -0.006 min
Response: 2442922
Conc: 19.78 ug/ml



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

R.T.: 17.771 min
Delta R.T.: -0.008 min
Response: 3068383
Conc: 19.57 ug/ml



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

R.T.: 17.981 min
Delta R.T.: -0.003 mi
Response: 2827163
Conc: 19.81 ug/m

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111424AR\
Data File : FD048734.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 13:49
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 111424.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	4.187	4.161	4.250	BV	425503	3665797	94.88%	5.186%
2	5.704	5.588	5.968	VV	405009	3863463	100.00%	5.466%
3	6.751	6.721	6.876	VV	381698	3750038	97.06%	5.305%
4	7.364	7.251	7.464	PV	354635	3457496	89.49%	4.891%
5	8.017	7.991	8.058	BV	394327	3815860	98.77%	5.398%
6	8.214	8.178	8.281	PV	217413	2274269	58.87%	3.217%
7	8.311	8.281	8.414	VV	385706	3749263	97.04%	5.304%
8	9.090	9.031	9.198	BV	361595	3781745	97.88%	5.350%
9	10.477	10.384	10.523	BV	357565	3565194	92.28%	5.044%
10	10.553	10.523	10.628	VV	318873	3563635	92.24%	5.042%
11	11.250	11.214	11.361	VV	354612	3772014	97.63%	5.336%
12	12.282	12.238	12.404	PV	323586	3579166	92.64%	5.064%
13	12.575	12.534	12.624	PV	317906	3544162	91.74%	5.014%
14	14.445	14.409	14.464	PV	285007	3271223	84.67%	4.628%
15	14.486	14.464	14.623	VV	274350	3405868	88.16%	4.818%
16	15.991	15.961	16.006	BV	260711	3111443	80.54%	4.402%
17	16.022	16.006	16.148	VB	266747	3204860	82.95%	4.534%
18	16.367	16.294	16.461	BV	229745	2970535	76.89%	4.203%
19	17.731	17.701	17.750	BV	198575	2442922	63.23%	3.456%
20	17.771	17.750	17.940	VV	182974	3068171	79.42%	4.341%
21	17.981	17.940	18.181	VV	193617	2827375	73.18%	4.000%
			Sum of corrected areas:			70684497		

Aromatic EPH 111424.M Fri Nov 15 02:40:45 2024

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

Inital Calibration Report for SequenceID : FE110724AL

AreaCount

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	40063780.000	21137224.000	8264114.000	4331556.000	2144887.000	
Aliphatic C12-C16	26499750.000	14057359.000	5586564.000	2913018.000	1447905.000	
Aliphatic C16-C21	38600621.000	20520000.000	8195408.000	4299352.000	2152043.000	
Aliphatic C21-C28	49929068.000	26341355.000	10608674.000	5580376.000	2822212.000	
Aliphatic C28-C40	66927536.000	37036837.000	15654323.000	8140009.000	4278617.000	
Aliphatic EPH	222020755.000	119092775.000	48309083.000	25264311.000	12845664.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	139914.7319996	3.111				
Aliphatic C12-C16	140635.568	3.722				
Aliphatic C16-C21	137768.027333	4.421				
Aliphatic C21-C28	133951.574	4.9				
Aliphatic C28-C40	128748.4183328	9.249				
Aliphatic EPH	134589.7899996	5.649				

Concentration

Parameter Range	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.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	FE051075.D	FE051076.D	FE051077.D	FE051078.D	FE051079.D	
Aliphatic C9-C12	133545.933333	140914.826666	137735.233333	144385.200000	142992.466666	
Aliphatic C12-C16	132498.750000	140573.590000	139664.100000	145650.900000	144790.500000	
Aliphatic C16-C21	128668.736666	136800.000000	136590.133333	143311.733333	143469.533333	

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

Inital Calibration Report for SequenceID : FE110724AL

Aliphatic C21-C28	124822.670000	131706.775000	132608.425000	139509.400000	141110.600000	
Aliphatic C28-C40	111545.893333	123456.123333	130452.691666	135666.816666	142620.566666	
Aliphatic EPH	123344.863888	132325.305555	134191.897222	140357.283333	142729.600000	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051075.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 16:52
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 07 04:49:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:48:22 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.858	14049939	94.663 ug/ml
Spiked Amount	50.000		Recovery =	189.33%
12) S	1-chlorooctadecane (S...	13.289	10794010	95.789 ug/ml
Spiked Amount	50.000		Recovery =	191.58%
	Target Compounds			
1) T	n-Nonane (C9)	3.241	13236910	97.465 ug/ml
2) T	n-Decane (C10)	4.493	13428166	97.423 ug/ml
3) T	A~Naphthalene (C11.7)	6.204	13623683	102.538 ug/ml
4) T	n-Dodecane (C12)	6.663	13398704	96.006 ug/ml
5) T	A~2-methylnaphthalene...	7.301	12915436	104.141 ug/ml
6) T	n-Tetradecane (C14)	8.489	13135139	94.955 ug/ml
7) T	n-Hexadecane (C16)	10.095	13364611	94.786 ug/ml
8) T	n-Octadecane (C18)	11.537	13365220	94.326 ug/ml
10) T	n-Eicosane (C20)	12.843	12736356	93.902 ug/ml
11) T	n-Heneicosane (C21)	13.454	12499045	94.372 ug/ml
13) T	n-Docosane (C22)	14.040	12430842	94.615 ug/ml
14) T	n-Tetracosane (C24)	15.141	12455204	94.910 ug/ml
15) T	n-Hexacosane (C26)	16.161	12499744	94.189 ug/ml
16) T	n-Octacosane (C28)	17.109	12543278	92.838 ug/ml
17) T	n-Tricontane (C30)	17.997	13023156	90.119 ug/ml
18) T	n-Dotriacontane (C32)	18.828	13000983	87.779 ug/ml
19) T	n-Tetratriacontane (C34)	19.610	11901355	88.615 ug/ml
20) T	n-Hexatriacontane (C36)	20.348	10625484	88.459 ug/ml
21) T	n-Octatriacontane (C38)	21.071	9770056	84.148 ug/ml
22) T	n-Tetracontane (C40)	21.951	8606502	71.980 ug/ml

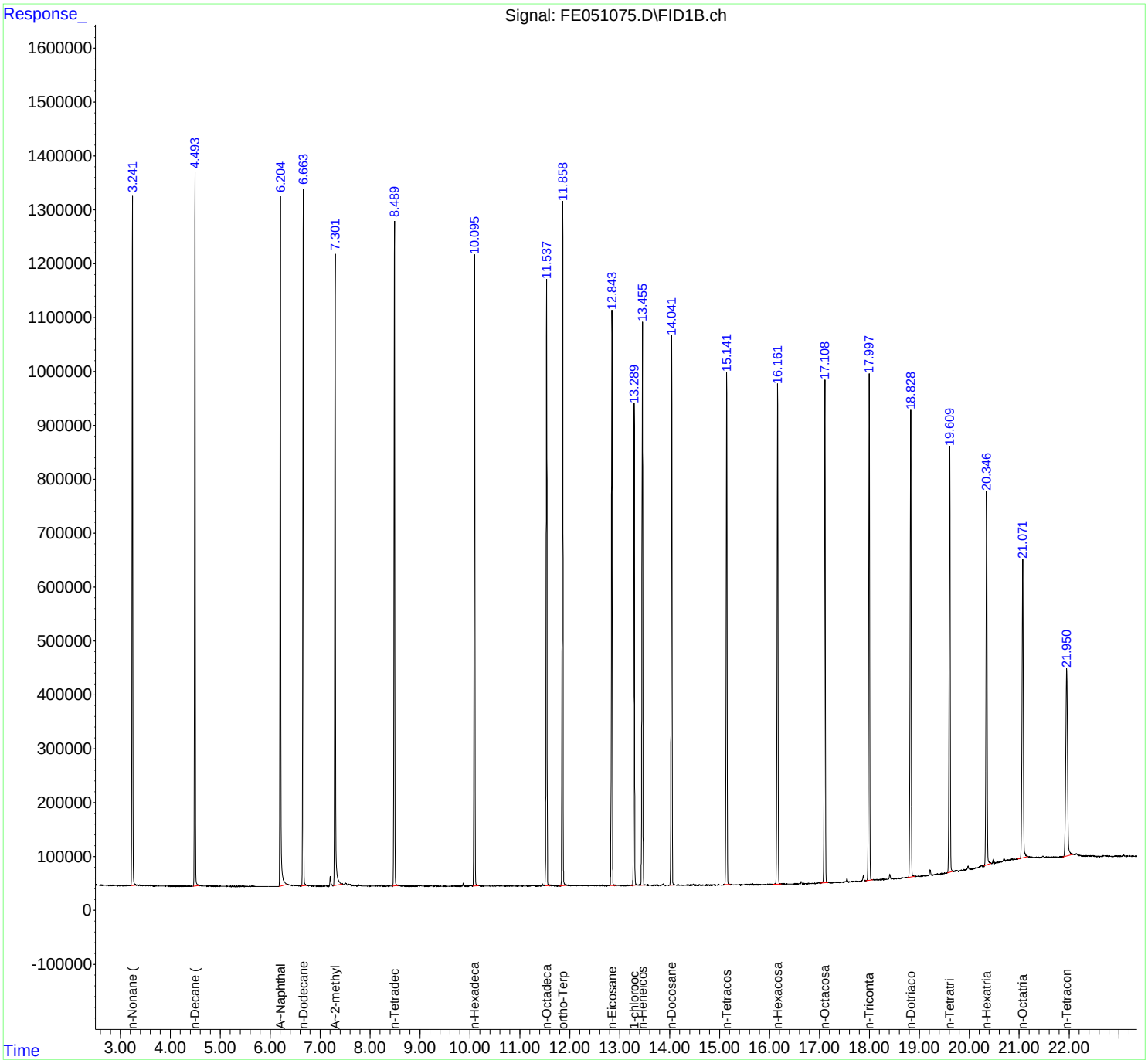
(f)=RT Delta > 1/2 Window (m)=manual int.

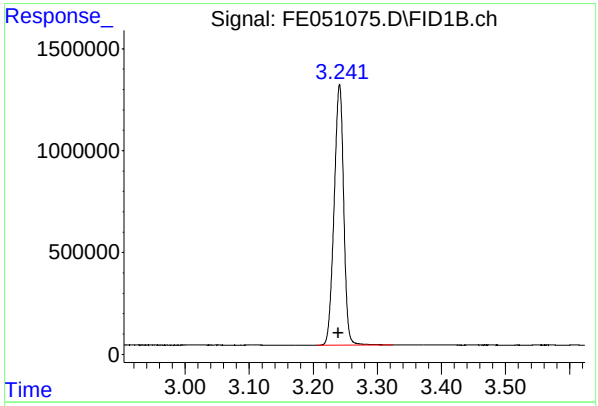
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051075.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 16:52
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 07 04:49:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:48:22 2024
Response via : Initial Calibration
Integrator: ChemStation

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

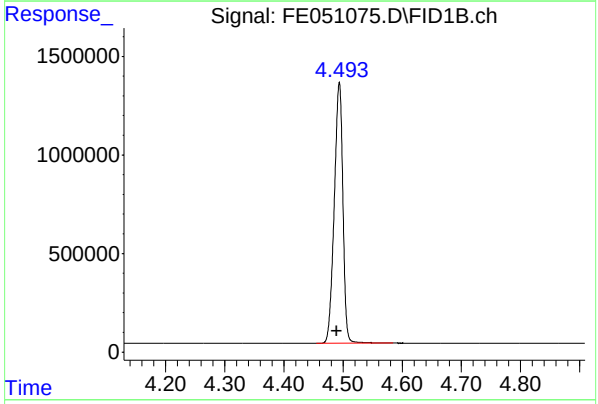




#1 n-Nonane (C9)

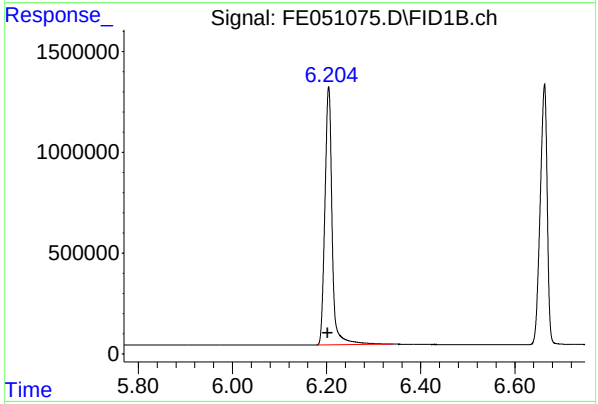
R.T.: 3.241 min
Delta R.T.: 0.002 min
Response: 13236910
Conc: 97.47 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



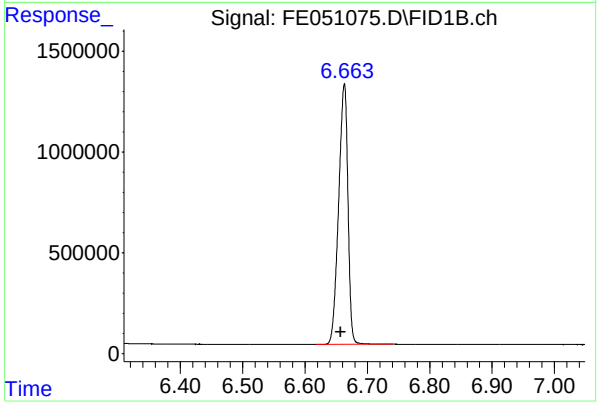
#2 n-Decane (C10)

R.T.: 4.493 min
Delta R.T.: 0.004 min
Response: 13428166
Conc: 97.42 ug/ml



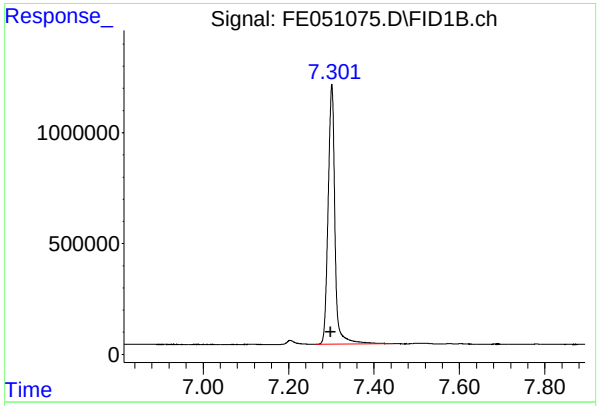
#3 A~Naphthalene (C11.7)

R.T.: 6.204 min
Delta R.T.: 0.002 min
Response: 13623683
Conc: 102.54 ug/ml



#4 n-Dodecane (C12)

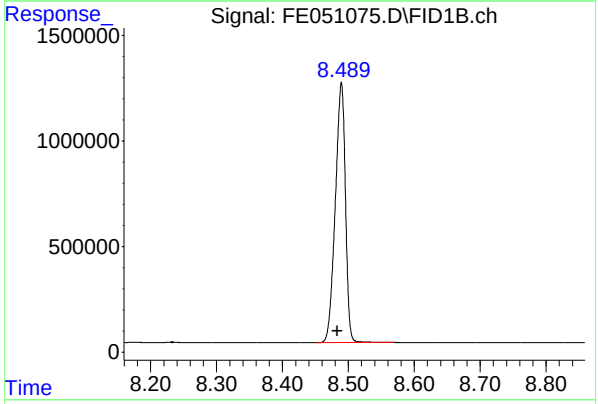
R.T.: 6.663 min
Delta R.T.: 0.005 min
Response: 13398704
Conc: 96.01 ug/ml



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

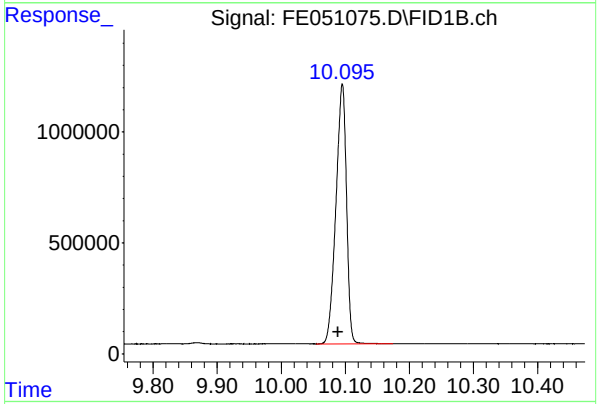
R.T.: 7.301 min
Delta R.T.: 0.003 min
Response: 12915436
Conc: 104.14 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



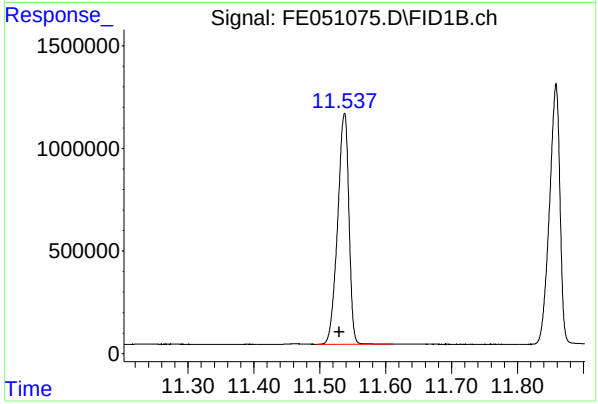
#6 n-Tetradecane (C14)

R.T.: 8.489 min
Delta R.T.: 0.006 min
Response: 13135139
Conc: 94.96 ug/ml



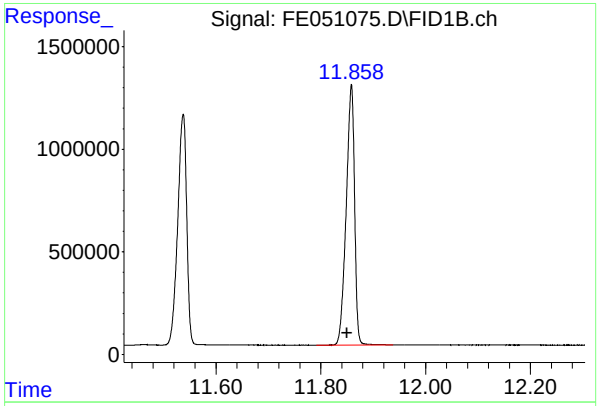
#7 n-Hexadecane (C16)

R.T.: 10.095 min
Delta R.T.: 0.006 min
Response: 13364611
Conc: 94.79 ug/ml



#8 n-Octadecane (C18)

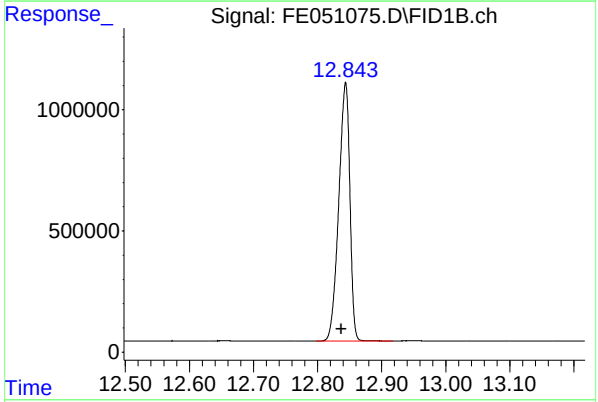
R.T.: 11.537 min
Delta R.T.: 0.007 min
Response: 13365220
Conc: 94.33 ug/ml



#9 ortho-Terphenyl (SURR)

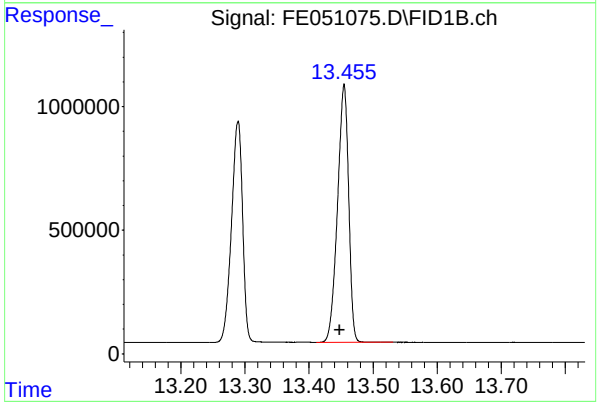
R.T.: 11.858 min
Delta R.T.: 0.007 min
Response: 14049939
Conc: 94.66 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



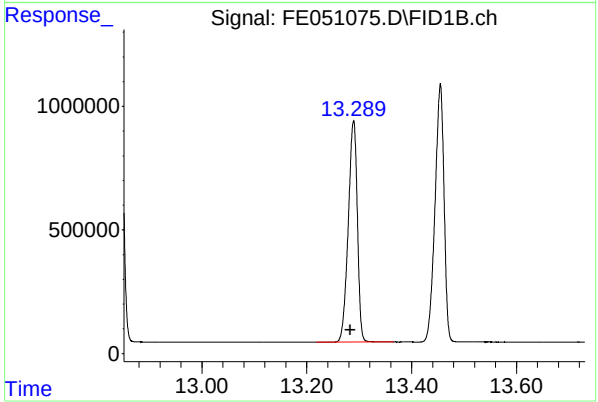
#10 n-Eicosane (C20)

R.T.: 12.843 min
Delta R.T.: 0.006 min
Response: 12736356
Conc: 93.90 ug/ml



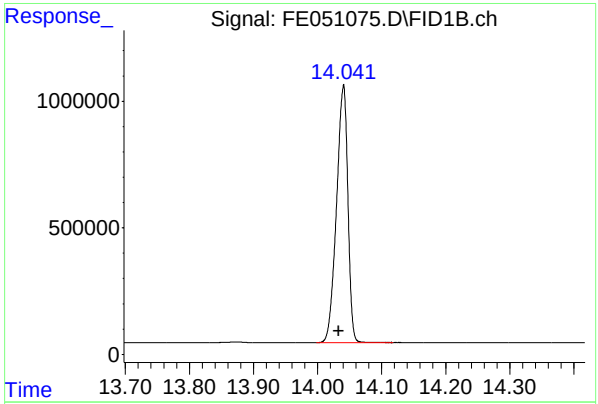
#11 n-Heneicosane (C21)

R.T.: 13.454 min
Delta R.T.: 0.007 min
Response: 12499045
Conc: 94.37 ug/ml



#12 1-chlorooctadecane (SURR)

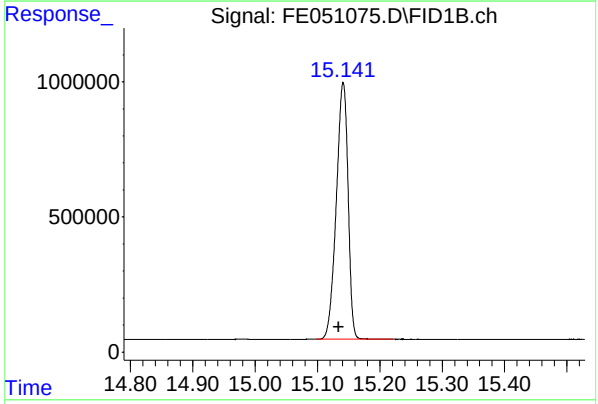
R.T.: 13.289 min
Delta R.T.: 0.006 min
Response: 10794010
Conc: 95.79 ug/ml



#13 n-Docosane (C22)

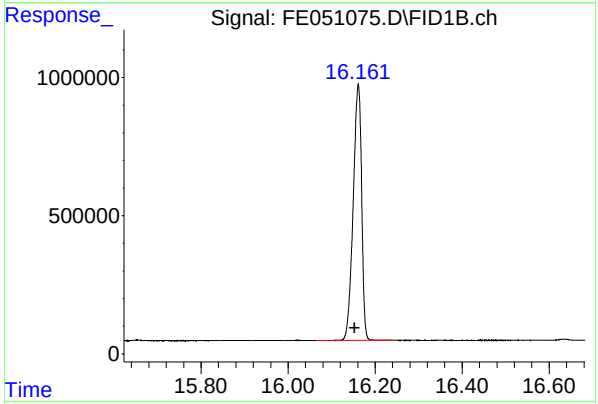
R.T.: 14.040 min
Delta R.T.: 0.007 min
Response: 12430842
Conc: 94.61 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



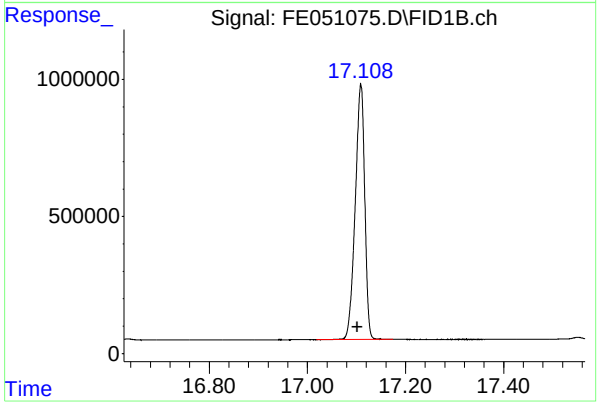
#14 n-Tetracosane (C24)

R.T.: 15.141 min
Delta R.T.: 0.007 min
Response: 12455204
Conc: 94.91 ug/ml



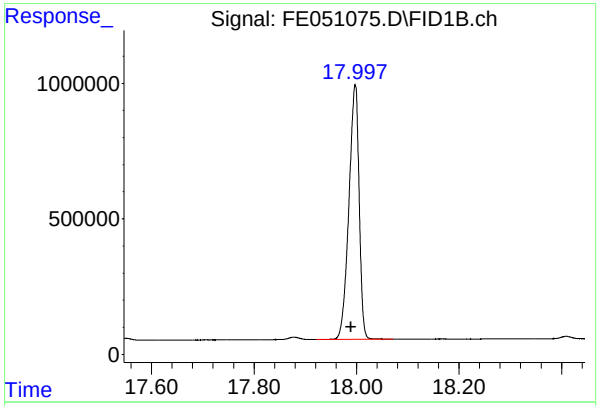
#15 n-Hexacosane (C26)

R.T.: 16.161 min
Delta R.T.: 0.007 min
Response: 12499744
Conc: 94.19 ug/ml



#16 n-Octacosane (C28)

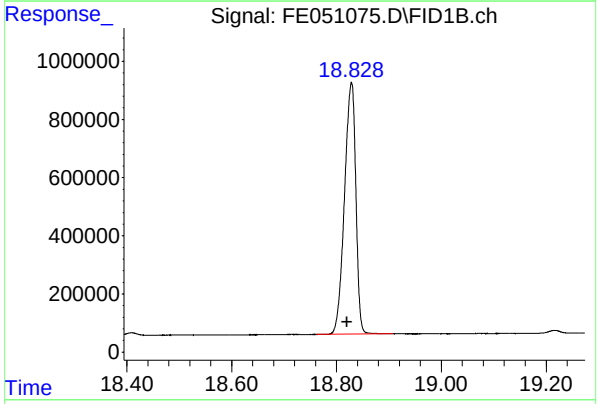
R.T.: 17.109 min
Delta R.T.: 0.007 min
Response: 12543278
Conc: 92.84 ug/ml



#17 n-Tricontane (C30)

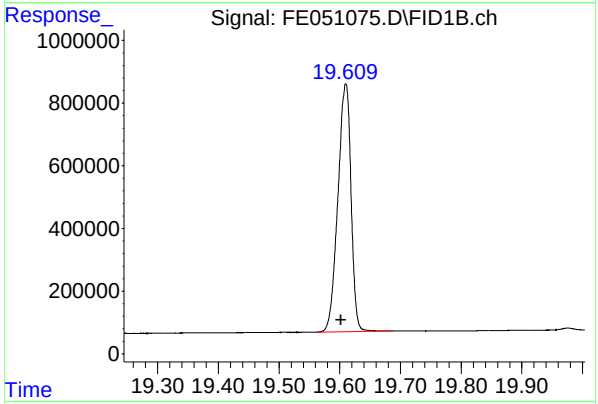
R.T.: 17.997 min
Delta R.T.: 0.008 min
Response: 13023156
Conc: 90.12 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



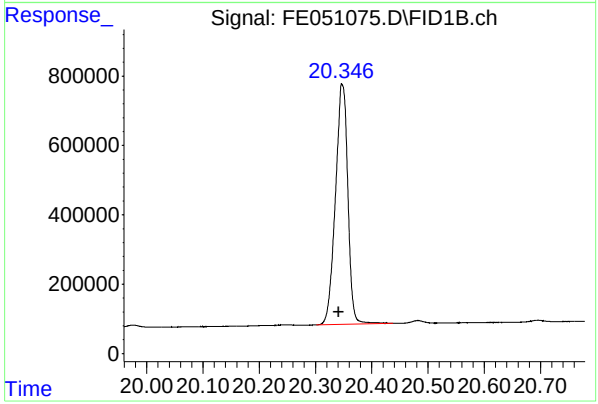
#18 n-Dotriacontane (C32)

R.T.: 18.828 min
Delta R.T.: 0.008 min
Response: 13000983
Conc: 87.78 ug/ml



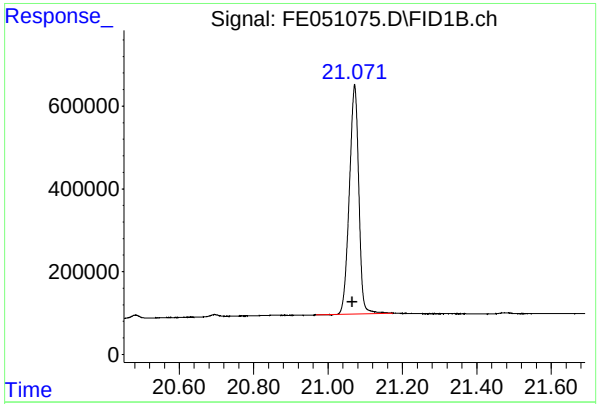
#19 n-Tetratriacontane (C34)

R.T.: 19.610 min
Delta R.T.: 0.007 min
Response: 11901355
Conc: 88.62 ug/ml



#20 n-Hexatriacontane (C36)

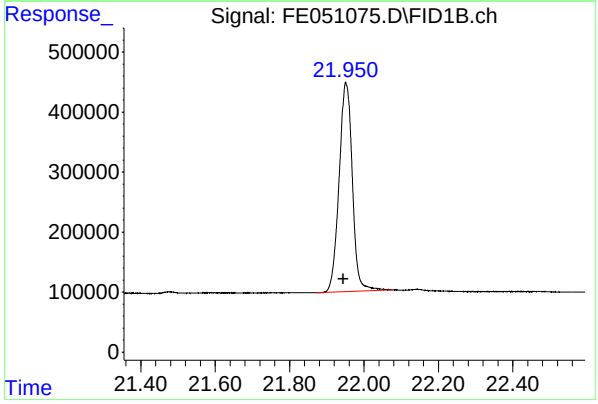
R.T.: 20.348 min
Delta R.T.: 0.006 min
Response: 10625484
Conc: 88.46 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.071 min
Delta R.T.: 0.006 min
Response: 9770056
Conc: 84.15 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.951 min
Delta R.T.: 0.007 min
Response: 8606502
Conc: 71.98 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051075.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 16:52
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.241	3.204	3.324	BB	1282476	13236910	94.21%	4.842%
2	4.493	4.454	4.584	BB	1335622	13428166	95.57%	4.911%
3	6.204	6.178	6.341	BB	1283378	13623683	96.97%	4.983%
4	6.663	6.618	6.741	BB	1272231	13398704	95.36%	4.901%
5	7.301	7.264	7.444	BB	1171648	12915436	91.93%	4.724%
6	8.489	8.451	8.568	BB	1213325	13135139	93.49%	4.804%
7	10.095	10.054	10.174	BB	1165575	13364611	95.12%	4.888%
8	11.537	11.494	11.611	BB	1132758	13365220	95.13%	4.888%
9	11.858	11.791	11.938	BB	1262734	14049939	100.00%	5.139%
10	12.843	12.798	12.918	BB	1073167	12736356	90.65%	4.658%
11	13.289	13.218	13.364	BB	892244	10794010	76.83%	3.948%
12	13.454	13.411	13.531	BB	1041507	12499045	88.96%	4.572%
13	14.040	13.998	14.118	BB	1025677	12430842	88.48%	4.547%
14	15.141	15.098	15.221	BB	952246	12455204	88.65%	4.556%
15	16.161	16.064	16.241	BB	926366	12499744	88.97%	4.572%
16	17.109	17.018	17.174	BB	929656	12543278	89.28%	4.588%
17	17.997	17.921	18.071	BB	946288	13023156	92.69%	4.763%
18	18.828	18.761	18.908	BB	864503	13000983	92.53%	4.755%
19	19.610	19.561	19.688	BB	798179	11901355	84.71%	4.353%
20	20.348	20.301	20.438	BB	692880	10625484	75.63%	3.886%
21	21.071	20.968	21.174	BB	553674	9770056	69.54%	3.573%
22	21.951	21.871	22.078	BB	348067	8606502	61.26%	3.148%

Sum of corrected areas: 273403822

Aliphatic EPH 110724.M Thu Nov 07 06:31:12 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051076.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:22
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 07 04:53:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:53:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.854	7439471	50.140 ug/ml
Spiked Amount	50.000		Recovery =	100.28%
12) S	1-chlorooctadecane (S...	13.285	5687735	50.749 ug/ml
Spiked Amount	50.000		Recovery =	101.50%
	Target Compounds			
1) T	n-Nonane (C9)	3.240	6972278	51.044 ug/ml
2) T	n-Decane (C10)	4.491	7075762	51.165 ug/ml
3) T	A~Naphthalene (C11.7)	6.202	7085104	55.435 ug/ml
4) T	n-Dodecane (C12)	6.659	7089184	50.860 ug/ml
5) T	A~2-methylnaphthalene...	7.298	6675931	55.258 ug/ml
6) T	n-Tetradecane (C14)	8.486	6961580	50.535 ug/ml
7) T	n-Hexadecane (C16)	10.091	7095779	50.608 ug/ml
8) T	n-Octadecane (C18)	11.533	7120474	50.469 ug/ml
10) T	n-Eicosane (C20)	12.840	6769951	49.978 ug/ml
11) T	n-Heneicosane (C21)	13.451	6629575	50.154 ug/ml
13) T	n-Docosane (C22)	14.035	6576920	50.005 ug/ml
14) T	n-Tetracosane (C24)	15.136	6563335	49.928 ug/ml
15) T	n-Hexacosane (C26)	16.156	6579401	49.536 ug/ml
16) T	n-Octacosane (C28)	17.105	6621699	48.838 ug/ml
17) T	n-Tricontane (C30)	17.991	6913369	47.530 ug/ml
18) T	n-Dotriacontane (C32)	18.823	6937205	46.458 ug/ml
19) T	n-Tetratriacontane (C34)	19.605	6360559	47.290 ug/ml
20) T	n-Hexatriacontane (C36)	20.344	5735761	48.355 ug/ml
21) T	n-Octatriacontane (C38)	21.068	5583007	49.749 ug/ml
22) T	n-Tetracontane (C40)	21.949	5506936	50.466 ug/ml

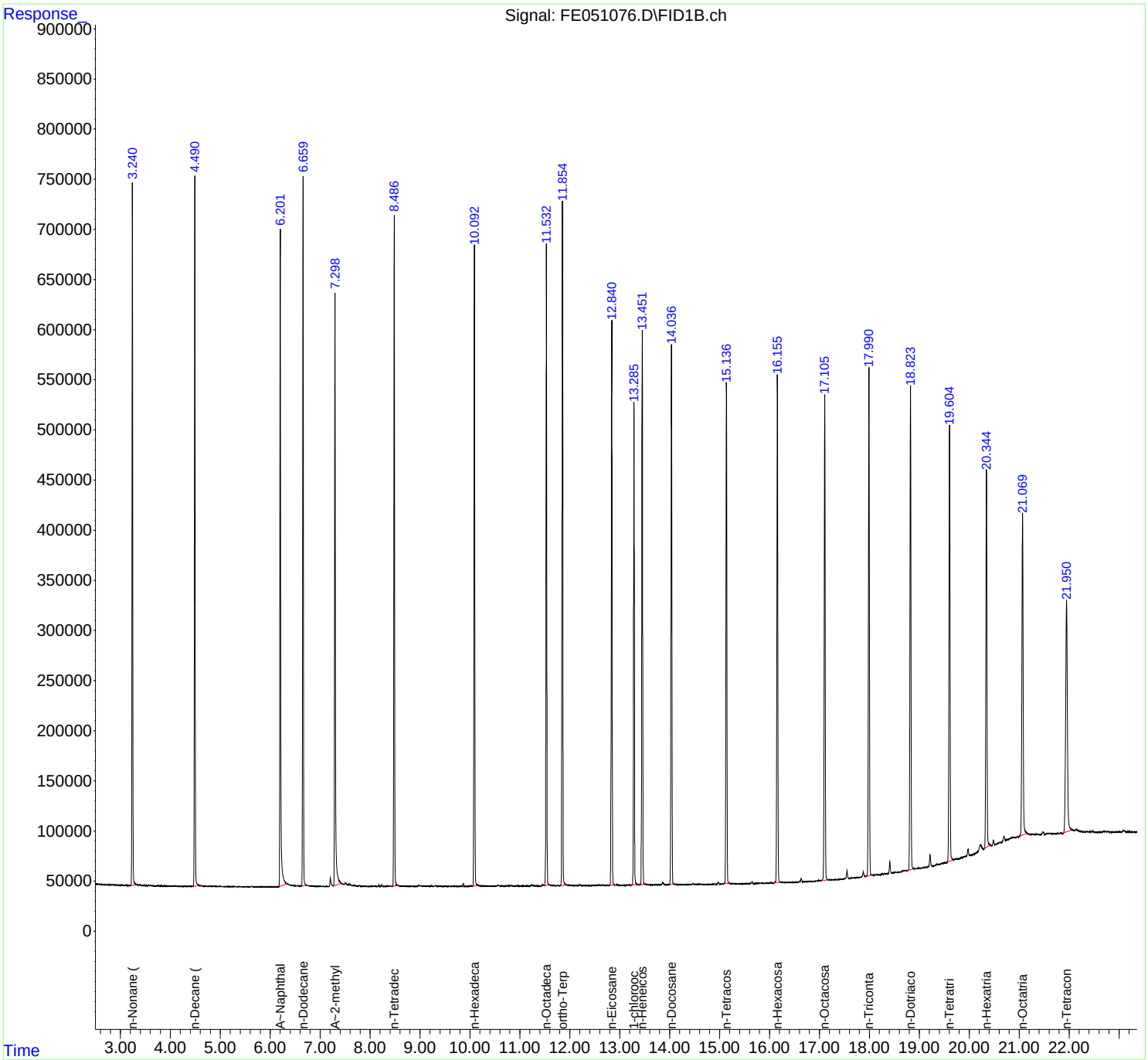
(f)=RT Delta > 1/2 Window (m)=manual int.

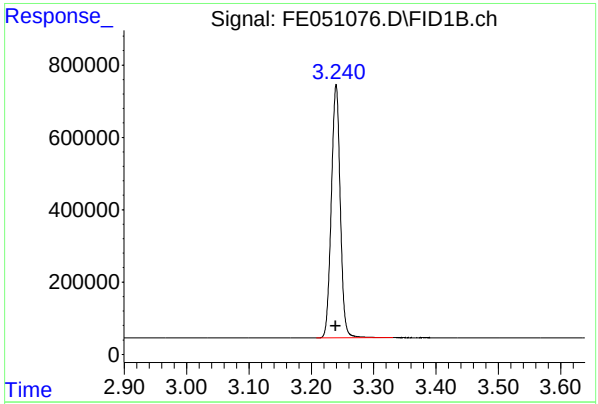
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051076.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:22
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 07 04:53:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:53:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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

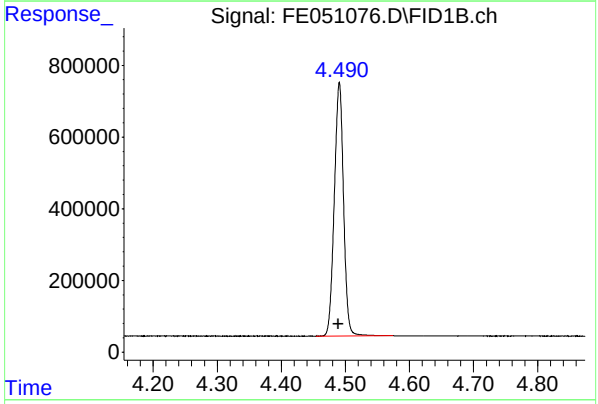




#1 n-Nonane (C9)

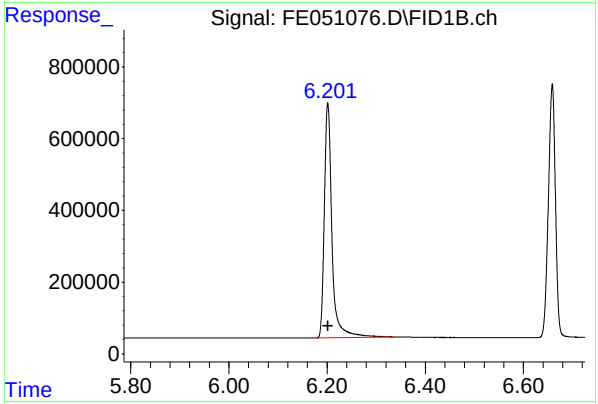
R.T.: 3.240 min
Delta R.T.: 0.000 min
Response: 6972278
Conc: 51.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



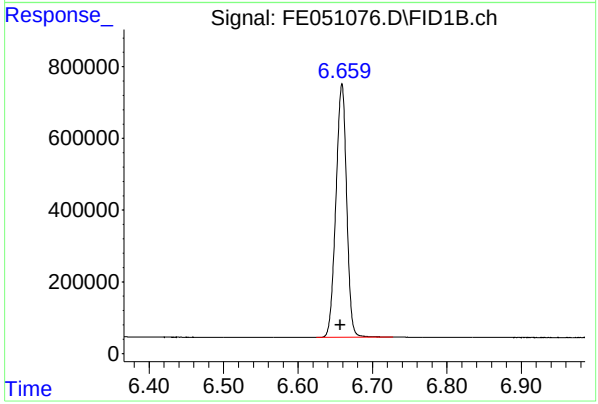
#2 n-Decane (C10)

R.T.: 4.491 min
Delta R.T.: 0.001 min
Response: 7075762
Conc: 51.17 ug/ml



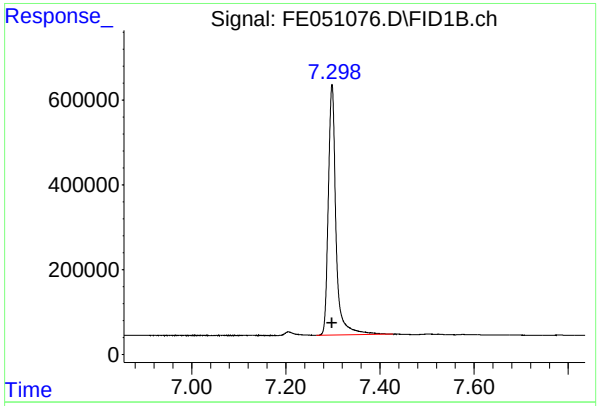
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: 0.000 min
Response: 7085104
Conc: 55.43 ug/ml



#4 n-Dodecane (C12)

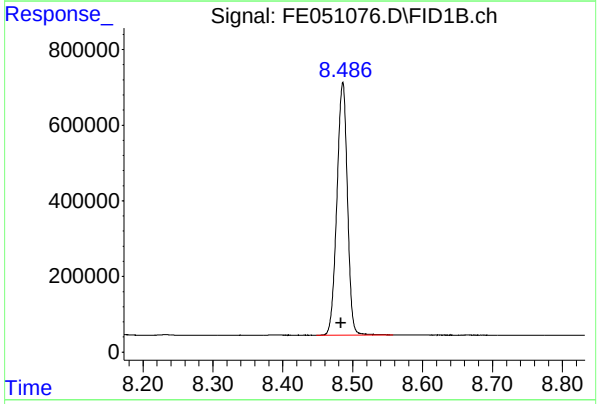
R.T.: 6.659 min
Delta R.T.: 0.002 min
Response: 7089184
Conc: 50.86 ug/ml



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

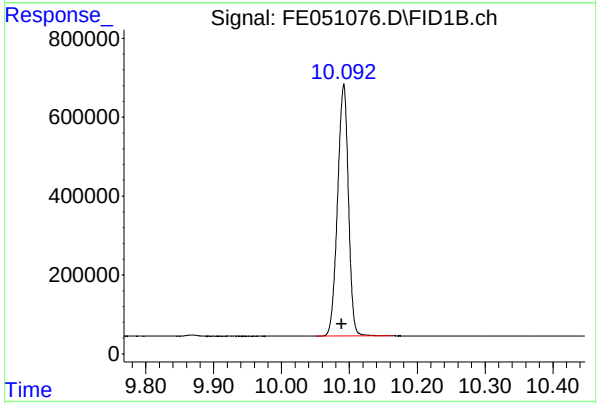
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 6675931
Conc: 55.26 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



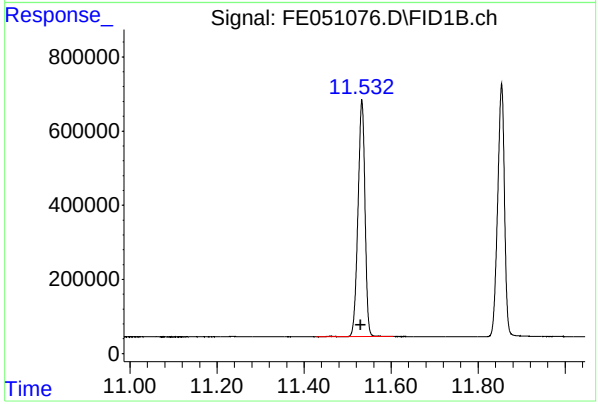
#6 n-Tetradecane (C14)

R.T.: 8.486 min
Delta R.T.: 0.002 min
Response: 6961580
Conc: 50.54 ug/ml



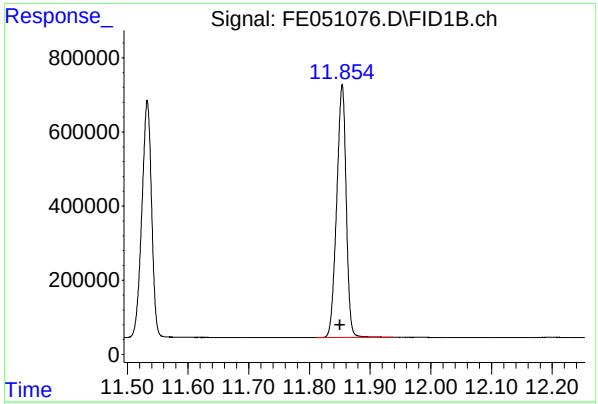
#7 n-Hexadecane (C16)

R.T.: 10.091 min
Delta R.T.: 0.003 min
Response: 7095779
Conc: 50.61 ug/ml



#8 n-Octadecane (C18)

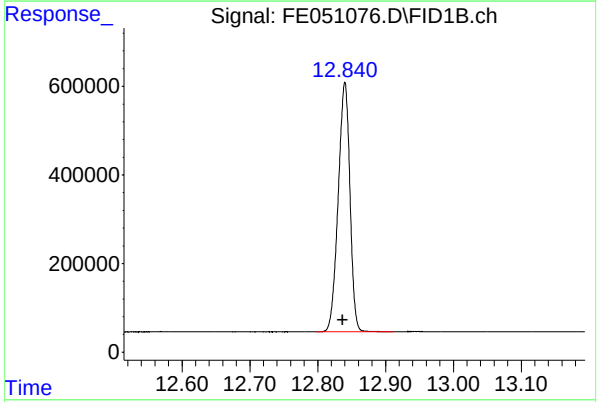
R.T.: 11.533 min
Delta R.T.: 0.003 min
Response: 7120474
Conc: 50.47 ug/ml



#9 ortho-Terphenyl (SURR)

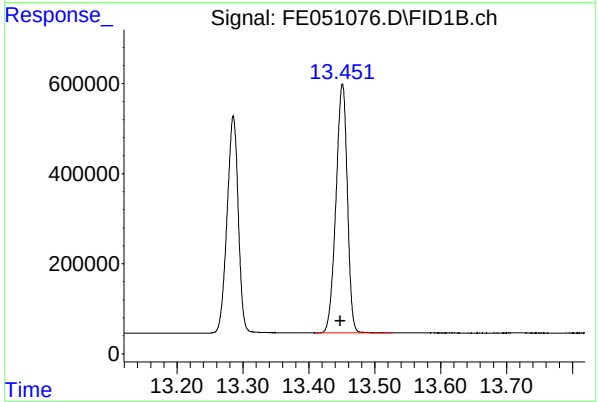
R.T.: 11.854 min
Delta R.T.: 0.003 min
Response: 7439471
Conc: 50.14 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



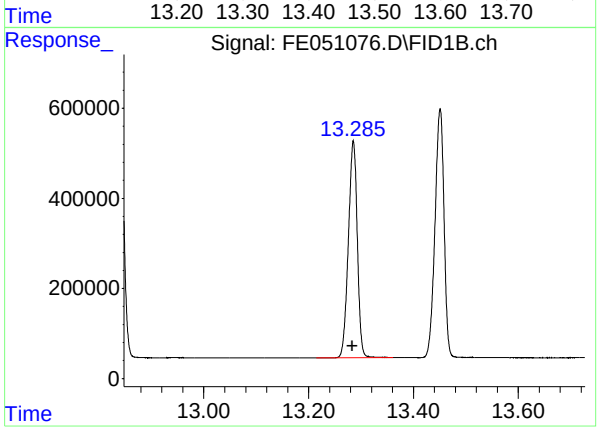
#10 n-Eicosane (C20)

R.T.: 12.840 min
Delta R.T.: 0.003 min
Response: 6769951
Conc: 49.98 ug/ml



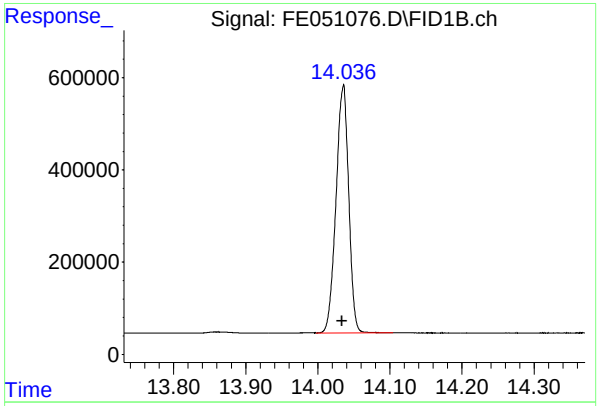
#11 n-Heneicosane (C21)

R.T.: 13.451 min
Delta R.T.: 0.003 min
Response: 6629575
Conc: 50.15 ug/ml



#12 1-chlorooctadecane (SURR)

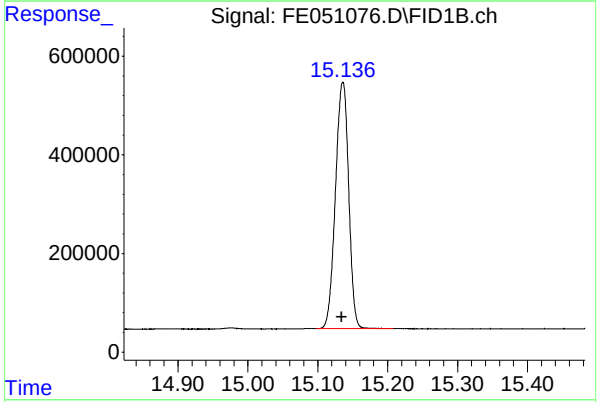
R.T.: 13.285 min
Delta R.T.: 0.002 min
Response: 5687735
Conc: 50.75 ug/ml



#13 n-Docosane (C22)

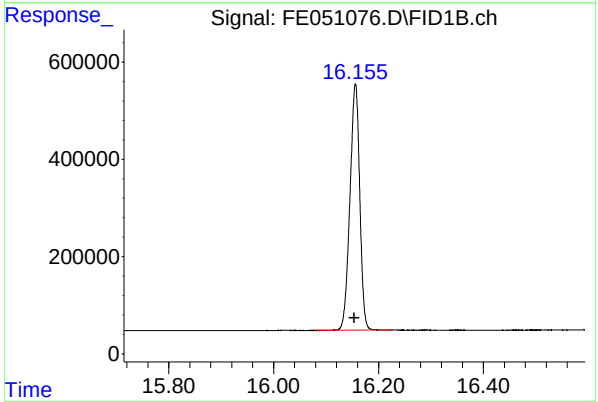
R.T.: 14.035 min
Delta R.T.: 0.002 min
Response: 6576920
Conc: 50.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



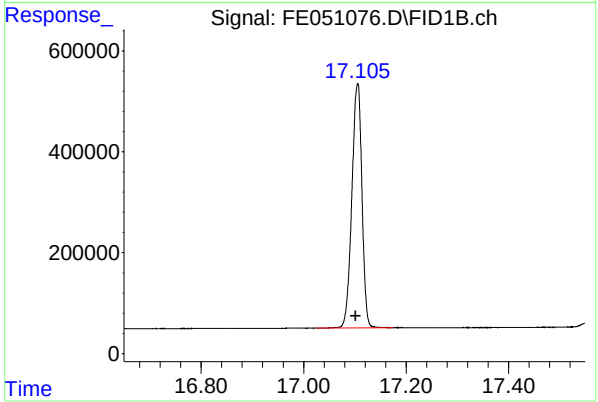
#14 n-Tetracosane (C24)

R.T.: 15.136 min
Delta R.T.: 0.001 min
Response: 6563335
Conc: 49.93 ug/ml



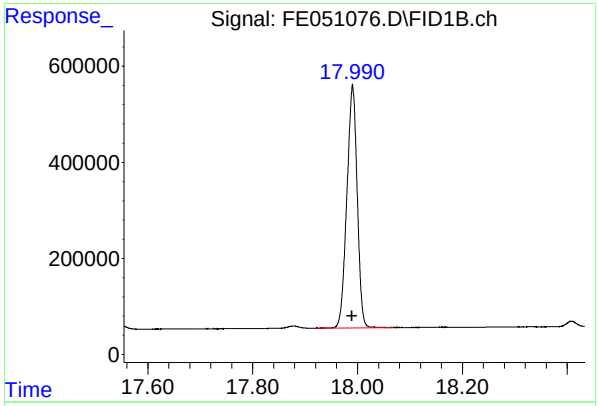
#15 n-Hexacosane (C26)

R.T.: 16.156 min
Delta R.T.: 0.002 min
Response: 6579401
Conc: 49.54 ug/ml



#16 n-Octacosane (C28)

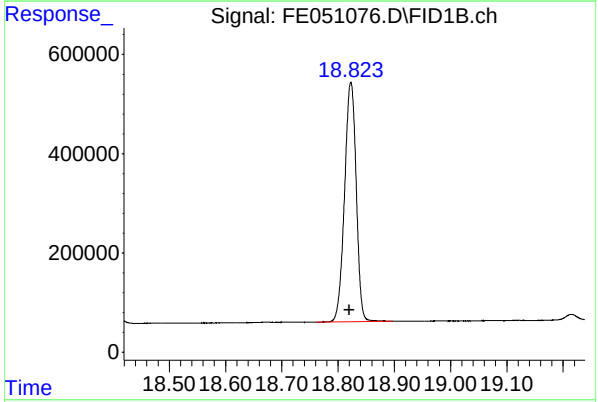
R.T.: 17.105 min
Delta R.T.: 0.003 min
Response: 6621699
Conc: 48.84 ug/ml



#17 n-Tricontane (C30)

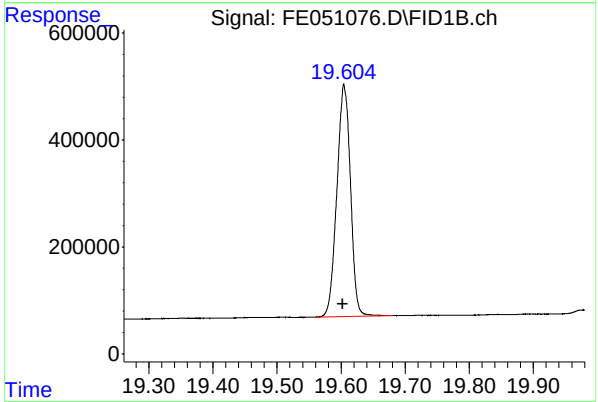
R.T.: 17.991 min
Delta R.T.: 0.001 min
Response: 6913369
Conc: 47.53 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



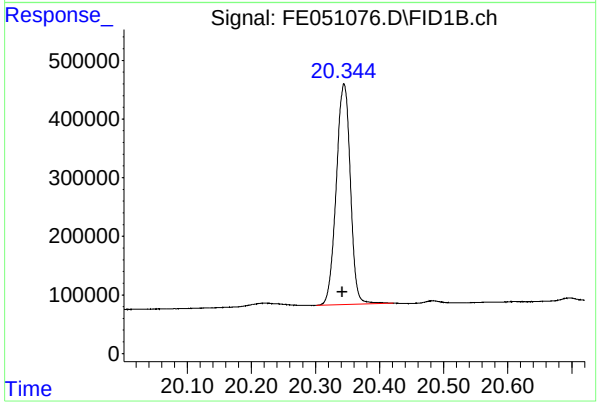
#18 n-Dotriacontane (C32)

R.T.: 18.823 min
Delta R.T.: 0.003 min
Response: 6937205
Conc: 46.46 ug/ml



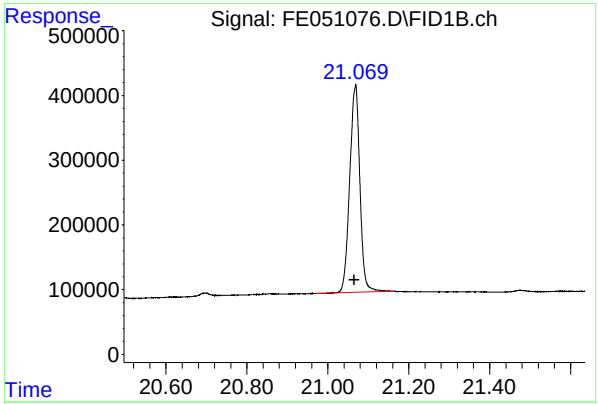
#19 n-Tetratriacontane (C34)

R.T.: 19.605 min
Delta R.T.: 0.003 min
Response: 6360559
Conc: 47.29 ug/ml



#20 n-Hexatriacontane (C36)

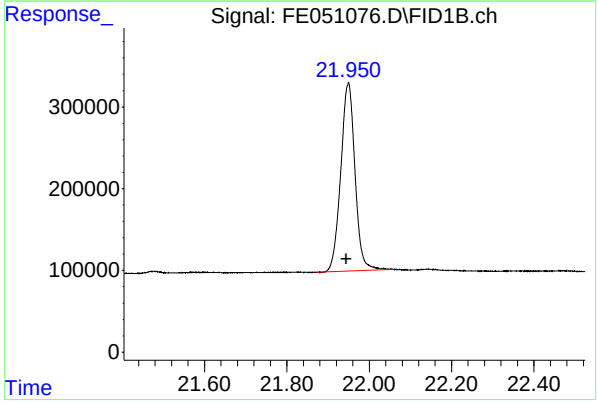
R.T.: 20.344 min
Delta R.T.: 0.003 min
Response: 5735761
Conc: 48.36 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.068 min
Delta R.T.: 0.003 min
Response: 5583007
Conc: 49.75 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.949 min
Delta R.T.: 0.005 min
Response: 5506936
Conc: 50.47 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051076.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:22
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.240	3.208	3.331	BB	702634	6972278	93.72%	4.776%
2	4.491	4.454	4.574	BB	709280	7075762	95.11%	4.847%
3	6.202	6.178	6.334	BB	654061	7085104	95.24%	4.853%
4	6.659	6.624	6.728	BB	700175	7089184	95.29%	4.856%
5	7.298	7.264	7.428	BB	589667	6675931	89.74%	4.573%
6	8.486	8.448	8.558	BB	661536	6961580	93.58%	4.769%
7	10.091	10.051	10.164	BB	633804	7095779	95.38%	4.861%
8	11.533	11.428	11.604	BB	635687	7120474	95.71%	4.878%
9	11.854	11.811	11.938	BB	683921	7439471	100.00%	5.096%
10	12.840	12.798	12.911	BB	565517	6769951	91.00%	4.638%
11	13.285	13.214	13.361	BB	479883	5687735	76.45%	3.896%
12	13.451	13.411	13.528	BB	554079	6629575	89.11%	4.541%
13	14.035	13.998	14.104	BB	530601	6576920	88.41%	4.505%
14	15.136	15.098	15.208	BB	499902	6563335	88.22%	4.496%
15	16.156	16.081	16.228	BB	509123	6579401	88.44%	4.507%
16	17.105	17.024	17.174	BB	483260	6621699	89.01%	4.536%
17	17.991	17.921	18.068	BB	504839	6913369	92.93%	4.736%
18	18.823	18.761	18.898	BB	484107	6937205	93.25%	4.752%
19	19.605	19.561	19.681	BB	433514	6360559	85.50%	4.357%
20	20.344	20.301	20.421	BB	376583	5735761	77.10%	3.929%
21	21.068	20.971	21.161	BB	317963	5583007	75.05%	3.824%
22	21.949	21.871	22.058	BB	229126	5506936	74.02%	3.772%

Sum of corrected areas: 145981016

Aliphatic EPH 110724.M Thu Nov 07 06:39:47 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051077.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:52
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 07 04:47:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.850	2968399	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
12)	S 1-chlorooctadecane (S...	13.283	2253701	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1)	T n-Nonane (C9)	3.239	2716227	20.000 ug/ml
2)	T n-Decane (C10)	4.489	2756662	20.000 ug/ml
3)	T A~Naphthalene (C11.7)	6.202	2657285	20.000 ug/ml
4)	T n-Dodecane (C12)	6.657	2791225	20.000 ug/ml
5)	T A~2-methylnaphthalene...	7.298	2480384	20.000 ug/ml
6)	T n-Tetradecane (C14)	8.483	2766602	20.000 ug/ml
7)	T n-Hexadecane (C16)	10.089	2819962	20.000 ug/ml
8)	T n-Octadecane (C18)	11.530	2833843	20.000 ug/ml
10)	T n-Eicosane (C20)	12.837	2712684	20.000 ug/ml
11)	T n-Heneicosane (C21)	13.448	2648881	20.000 ug/ml
13)	T n-Docosane (C22)	14.033	2627674	20.000 ug/ml
14)	T n-Tetracosane (C24)	15.134	2624630	20.000 ug/ml
15)	T n-Hexacosane (C26)	16.154	2654184	20.000 ug/ml
16)	T n-Octacosane (C28)	17.102	2702186	20.000 ug/ml
17)	T n-Tricontane (C30)	17.989	2890205	20.000 ug/ml
18)	T n-Dotriacontane (C32)	18.820	2962222	20.000 ug/ml
19)	T n-Tetratriacontane (C34)	19.602	2686081	20.000 ug/ml
20)	T n-Hexatriacontane (C36)	20.342	2402353	20.000 ug/ml
21)	T n-Octatriacontane (C38)	21.065	2322118	20.000 ug/ml
22)	T n-Tetracontane (C40)	21.945	2391344	20.000 ug/ml

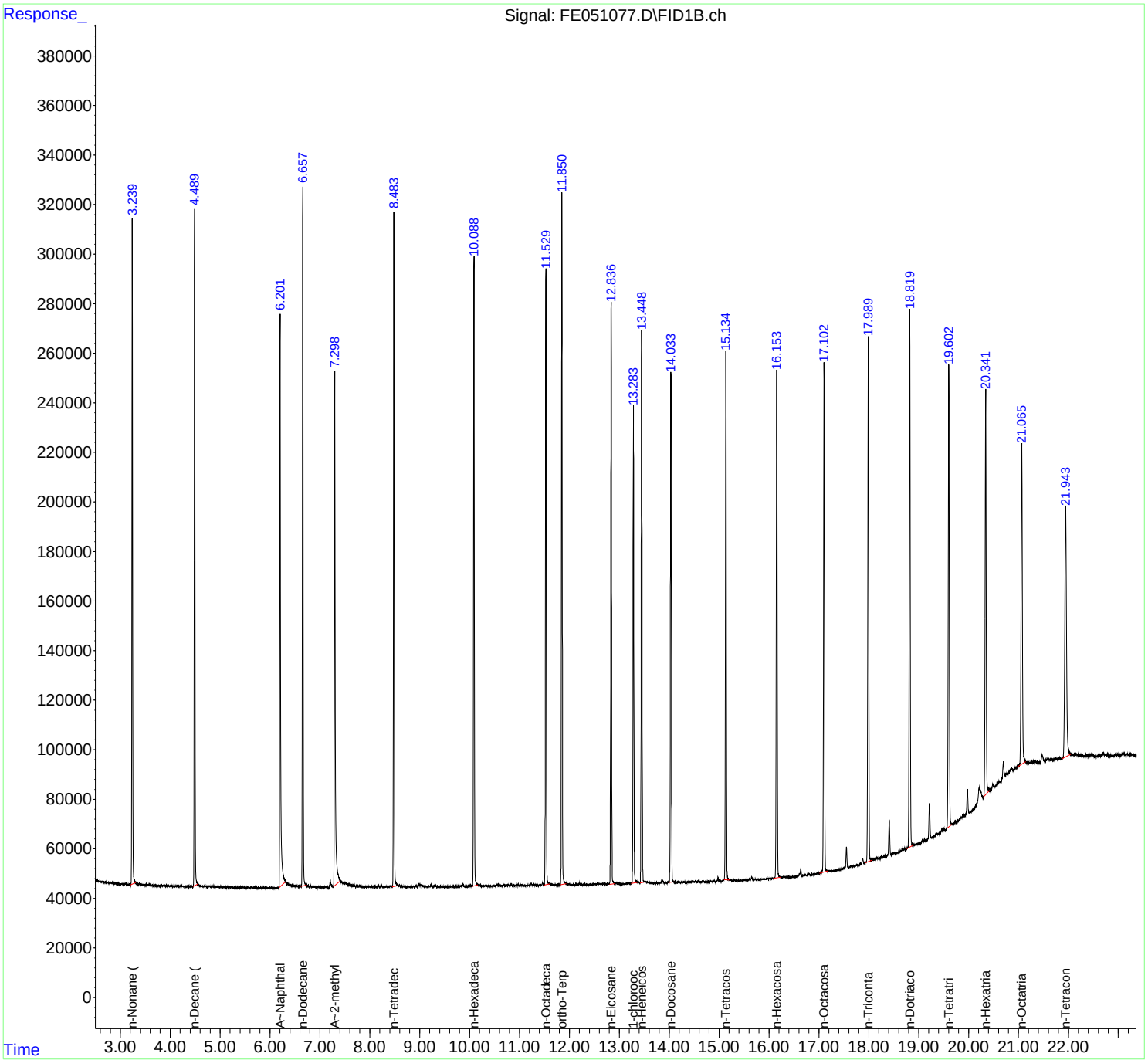
(f)=RT Delta > 1/2 Window (m)=manual int.

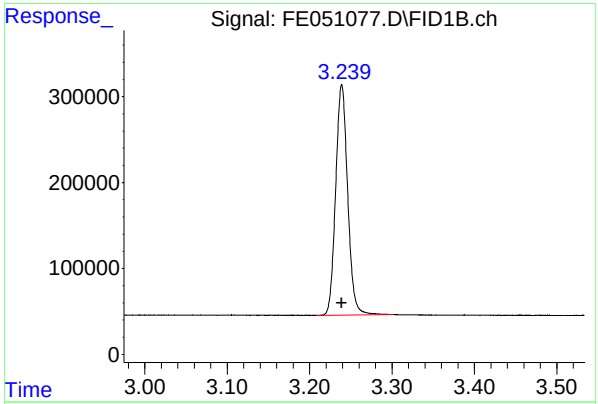
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051077.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:52
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 07 04:47:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:46:41 2024
Response via : Initial Calibration
Integrator: ChemStation

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

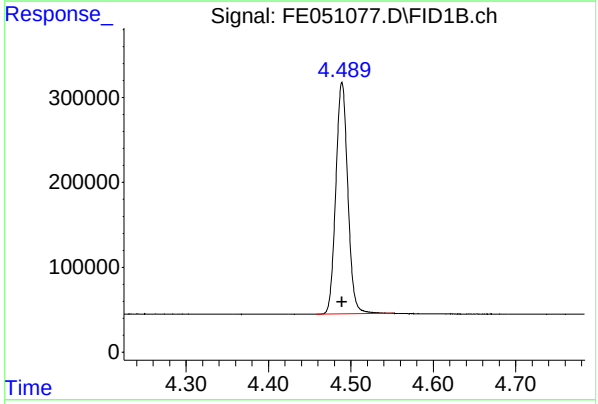




#1 n-Nonane (C9)

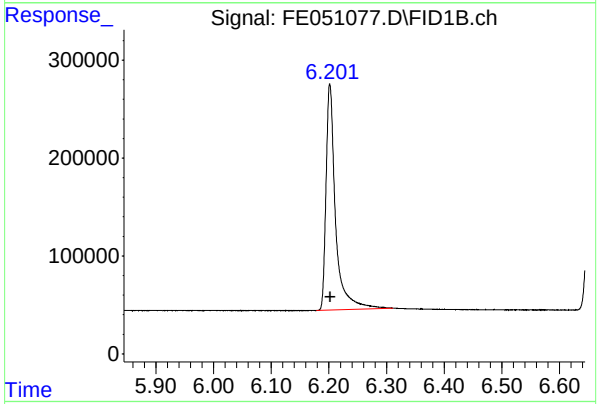
R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 2716227
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



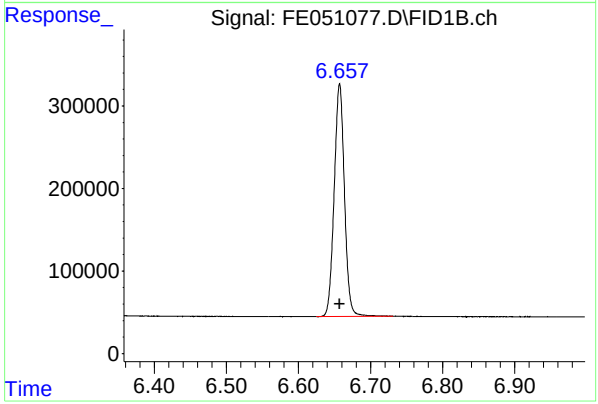
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 2756662
Conc: 20.00 ug/ml



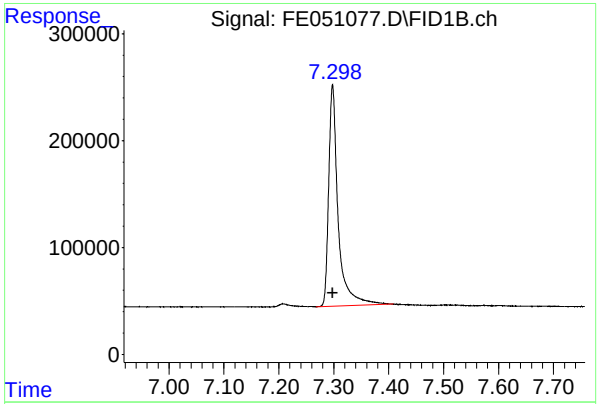
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: 0.000 min
Response: 2657285
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

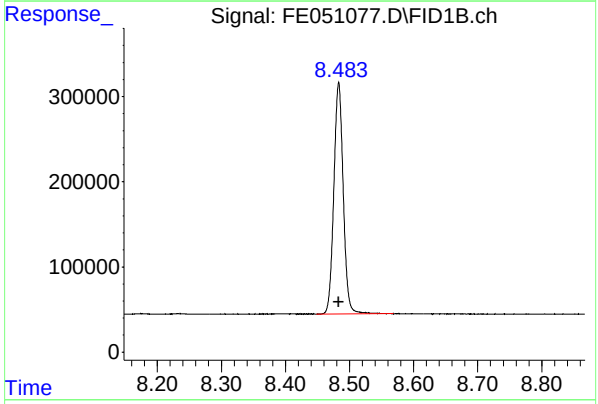
R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 2791225
Conc: 20.00 ug/ml



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

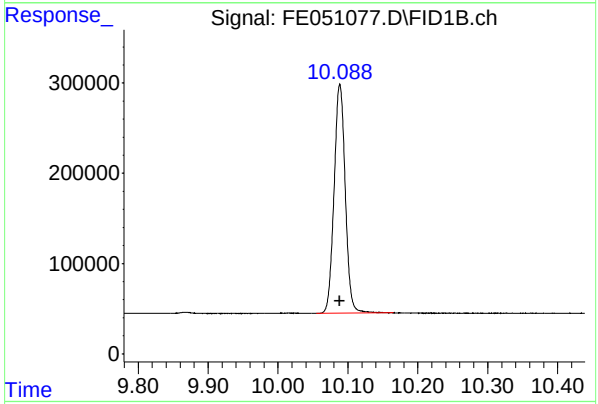
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 2480384
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



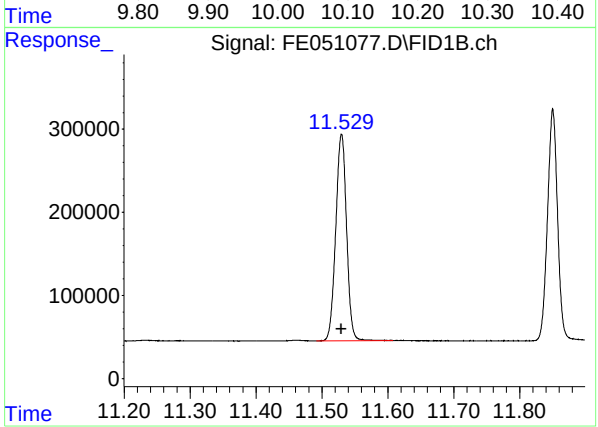
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 2766602
Conc: 20.00 ug/ml



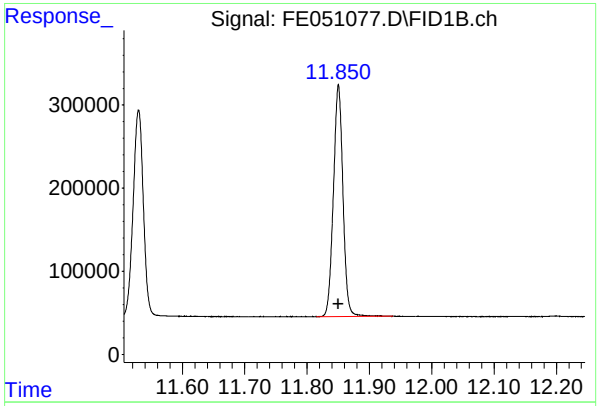
#7 n-Hexadecane (C16)

R.T.: 10.089 min
Delta R.T.: 0.000 min
Response: 2819962
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

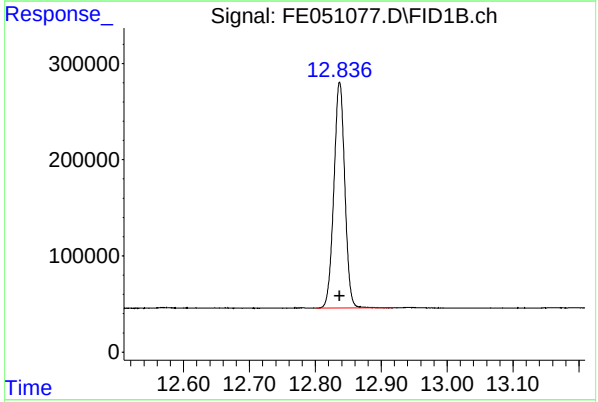
R.T.: 11.530 min
Delta R.T.: 0.000 min
Response: 2833843
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

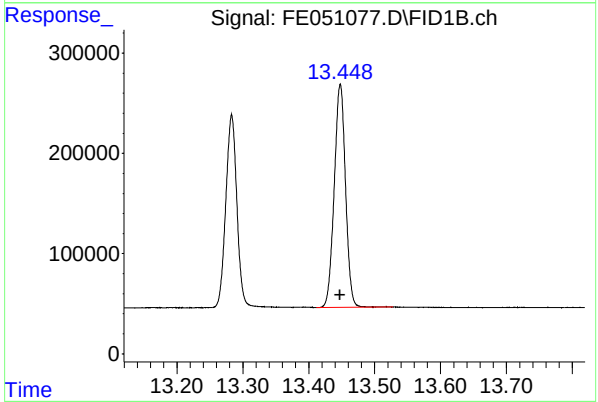
R.T.: 11.850 min
Delta R.T.: 0.000 min
Response: 2968399
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



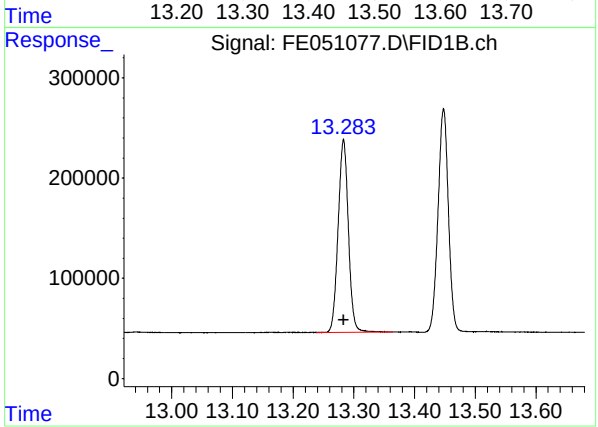
#10 n-Eicosane (C20)

R.T.: 12.837 min
Delta R.T.: 0.000 min
Response: 2712684
Conc: 20.00 ug/ml



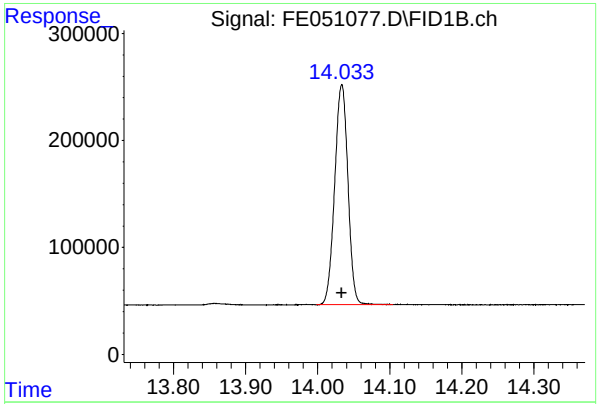
#11 n-Heneicosane (C21)

R.T.: 13.448 min
Delta R.T.: 0.000 min
Response: 2648881
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

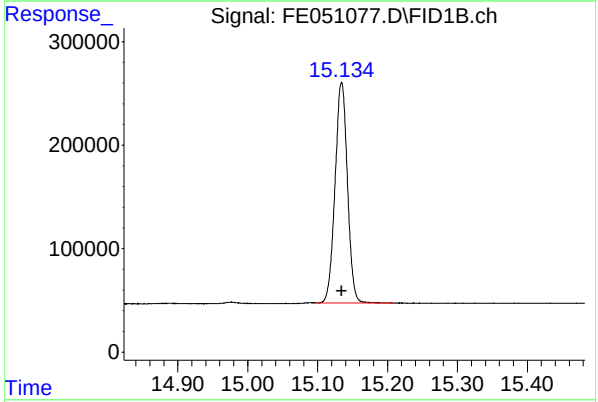
R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 2253701
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

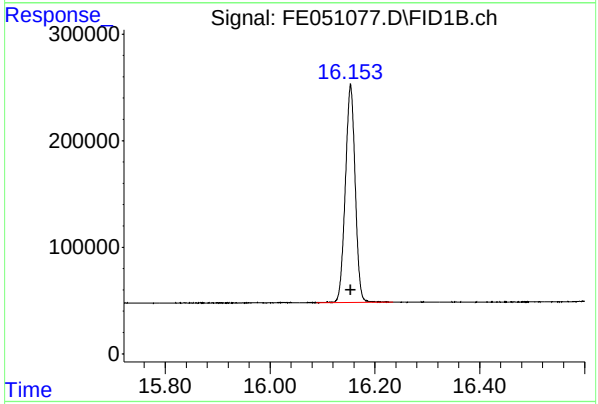
R.T.: 14.033 min
Delta R.T.: 0.000 min
Response: 2627674
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



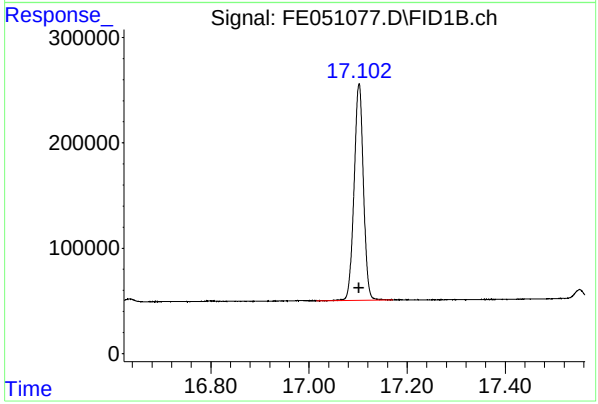
#14 n-Tetracosane (C24)

R.T.: 15.134 min
Delta R.T.: 0.000 min
Response: 2624630
Conc: 20.00 ug/ml



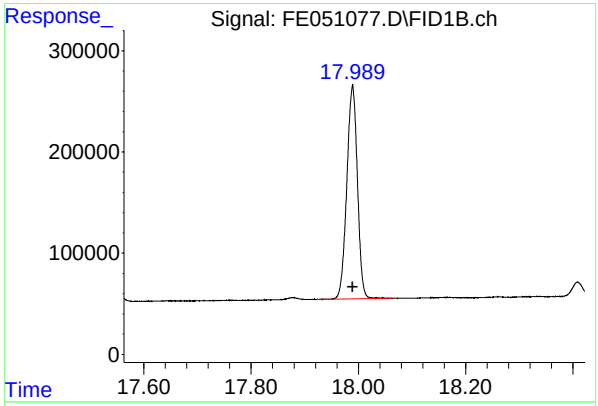
#15 n-Hexacosane (C26)

R.T.: 16.154 min
Delta R.T.: 0.000 min
Response: 2654184
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

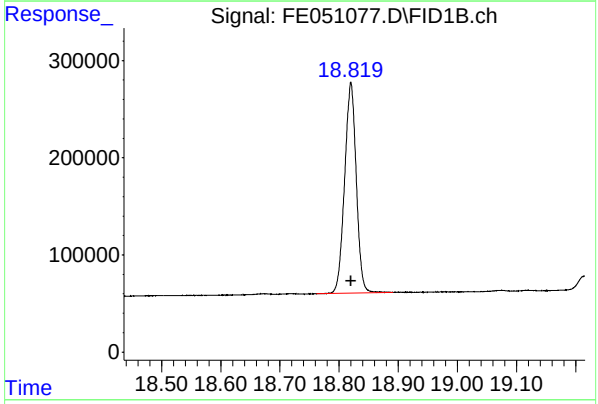
R.T.: 17.102 min
Delta R.T.: 0.000 min
Response: 2702186
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

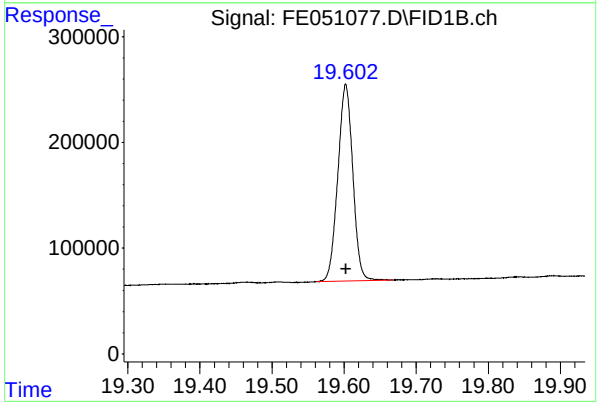
R.T.: 17.989 min
Delta R.T.: 0.000 min
Response: 2890205
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



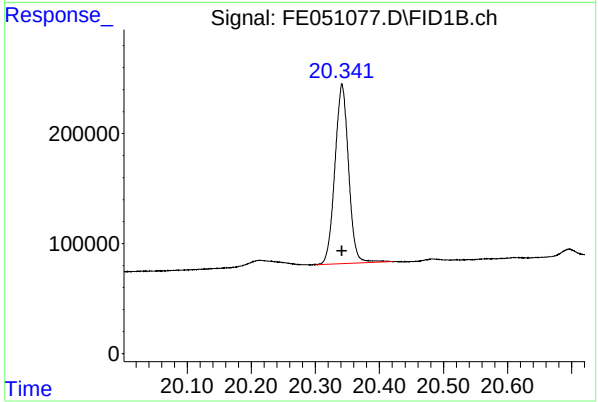
#18 n-Dotriacontane (C32)

R.T.: 18.820 min
Delta R.T.: 0.000 min
Response: 2962222
Conc: 20.00 ug/ml



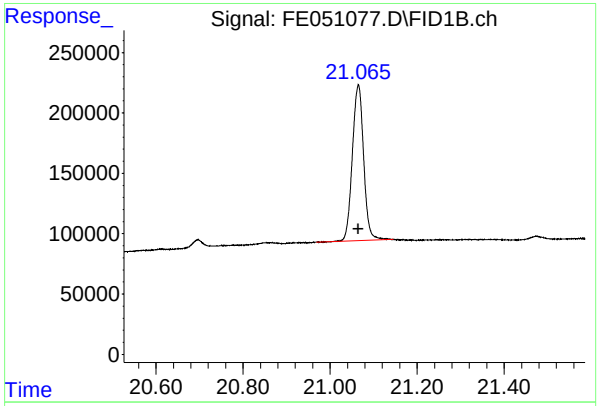
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 2686081
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

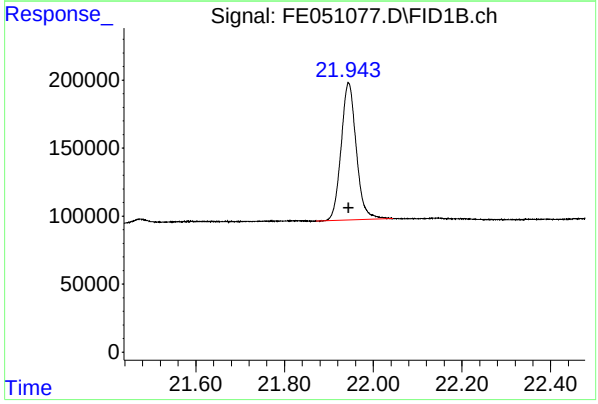
R.T.: 20.342 min
Delta R.T.: 0.000 min
Response: 2402353
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.065 min
Delta R.T.: 0.000 min
Response: 2322118
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.945 min
Delta R.T.: 0.000 min
Response: 2391344
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051077.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 17:52
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.239	3.208	3.301	BB	266887	2716227	91.50%	4.630%
2	4.489	4.458	4.551	BB	271882	2756662	92.87%	4.699%
3	6.202	6.178	6.311	BB	231533	2657285	89.52%	4.529%
4	6.657	6.625	6.731	BB	282034	2791225	94.03%	4.758%
5	7.298	7.268	7.408	BB	206579	2480384	83.56%	4.228%
6	8.483	8.448	8.568	BB	270525	2766602	93.20%	4.716%
7	10.089	10.055	10.165	BB	253646	2819962	95.00%	4.807%
8	11.530	11.491	11.608	BB	249851	2833843	95.47%	4.830%
9	11.850	11.815	11.938	BB	277757	2968399	100.00%	5.060%
10	12.837	12.801	12.918	BB	234994	2712684	91.39%	4.624%
11	13.283	13.238	13.365	BB	191639	2253701	75.92%	3.841%
12	13.448	13.411	13.528	BB	222710	2648881	89.24%	4.515%
13	14.033	13.998	14.105	BB	206499	2627674	88.52%	4.479%
14	15.134	15.098	15.208	BB	213222	2624630	88.42%	4.474%
15	16.154	16.088	16.235	BB	203985	2654184	89.41%	4.524%
16	17.102	17.015	17.171	BB	205505	2702186	91.03%	4.606%
17	17.989	17.921	18.065	BB	208655	2890205	97.37%	4.926%
18	18.820	18.761	18.891	BB	216663	2962222	99.79%	5.049%
19	19.602	19.561	19.668	BB	185371	2686081	90.49%	4.578%
20	20.342	20.301	20.421	BB	162768	2402353	80.93%	4.095%
21	21.065	20.968	21.145	BB	129093	2322118	78.23%	3.958%
22	21.945	21.871	22.045	BB	101043	2391344	80.56%	4.076%
			Sum of corrected areas:			58668851		

Aliphatic EPH 110724.M Thu Nov 07 06:40:20 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051078.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:22
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File: autoint1.e
Quant Time: Nov 07 04:55:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:54:42 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.849	1565644	10.545 ug/ml
Spiked Amount	50.000		Recovery =	21.09%
12) S	1-chlorooctadecane (S...	13.283	1176755	10.461 ug/ml
Spiked Amount	50.000		Recovery =	20.92%
	Target Compounds			
1) T	n-Nonane (C9)	3.239	1426184	10.387 ug/ml
2) T	n-Decane (C10)	4.489	1444976	10.388 ug/ml
3) T	A~Naphthalene (C11.7)	6.203	1341147	10.216 ug/ml
4) T	n-Dodecane (C12)	6.656	1460396	10.432 ug/ml
5) T	A~2-methylnaphthalene...	7.299	1295139	10.446 ug/mlm
6) T	n-Tetradecane (C14)	8.483	1443150	10.448 ug/ml
7) T	n-Hexadecane (C16)	10.088	1469868	10.451 ug/ml
8) T	n-Octadecane (C18)	11.528	1483612	10.491 ug/ml
10) T	n-Eicosane (C20)	12.836	1425003	10.521 ug/ml
11) T	n-Heneicosane (C21)	13.447	1390737	10.513 ug/ml
13) T	n-Docosane (C22)	14.033	1386349	10.540 ug/ml
14) T	n-Tetracosane (C24)	15.134	1376518	10.475 ug/ml
15) T	n-Hexacosane (C26)	16.154	1392936	10.512 ug/ml
16) T	n-Octacosane (C28)	17.100	1424573	10.568 ug/ml
17) T	n-Tricontane (C30)	17.987	1518163	10.568 ug/ml
18) T	n-Dotriacontane (C32)	18.819	1556973	10.615 ug/ml
19) T	n-Tetratriacontane (C34)	19.602	1411160	10.636 ug/ml
20) T	n-Hexatriacontane (C36)	20.341	1260253	10.713 ug/ml
21) T	n-Octatriacontane (C38)	21.064	1207468	10.773 ug/ml
22) T	n-Tetracontane (C40)	21.946	1185992	10.843 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051078.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:22
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 20 Sample Multiplier: 1

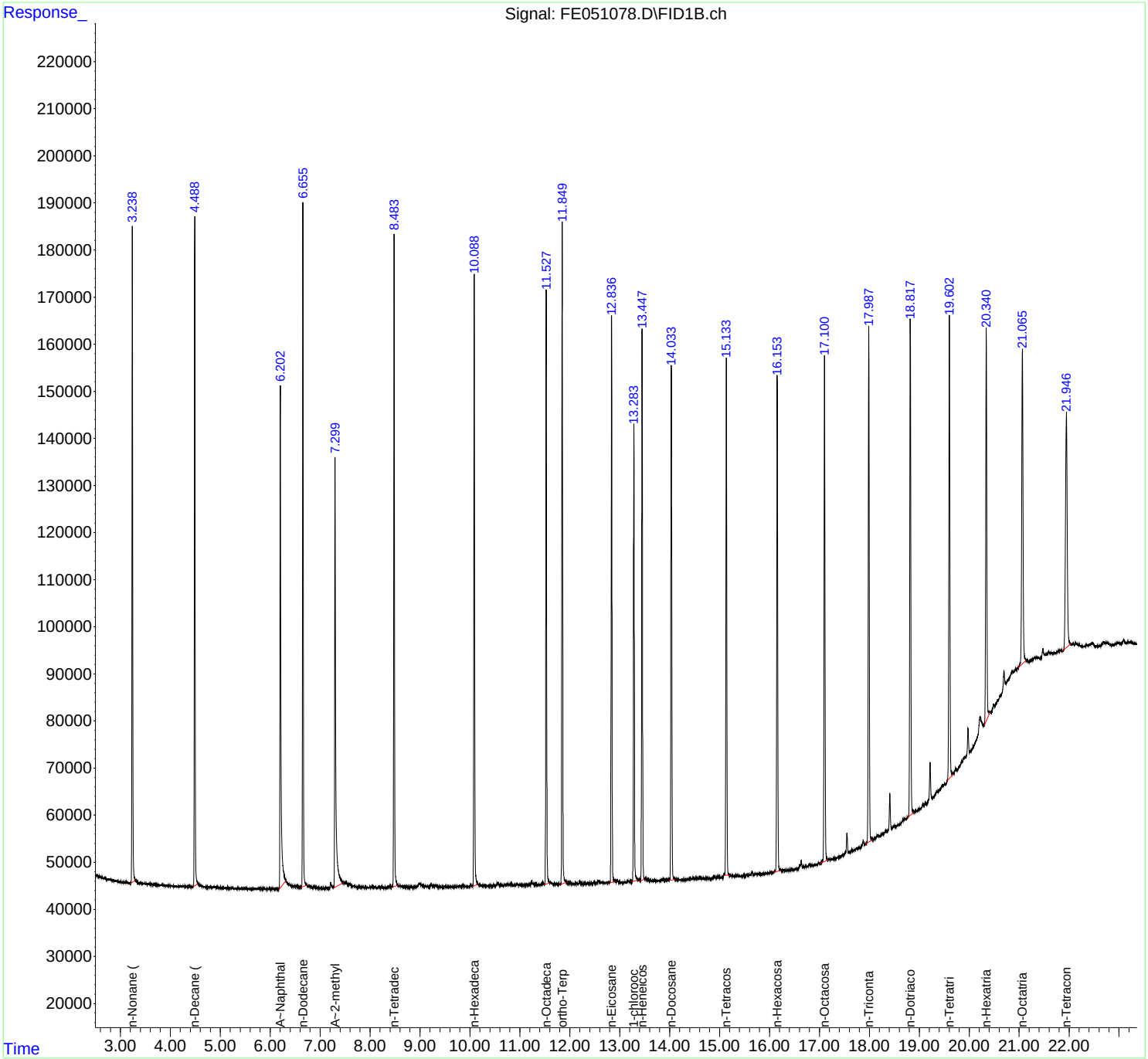
Integration File: autoint1.e
Quant Time: Nov 07 04:55:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:54:42 2024
Response via : Initial Calibration
Integrator: ChemStation

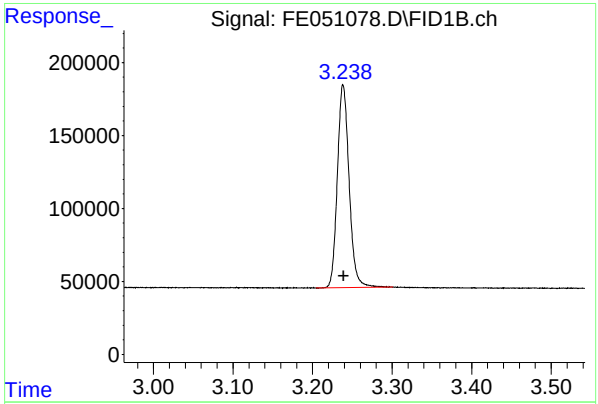
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024





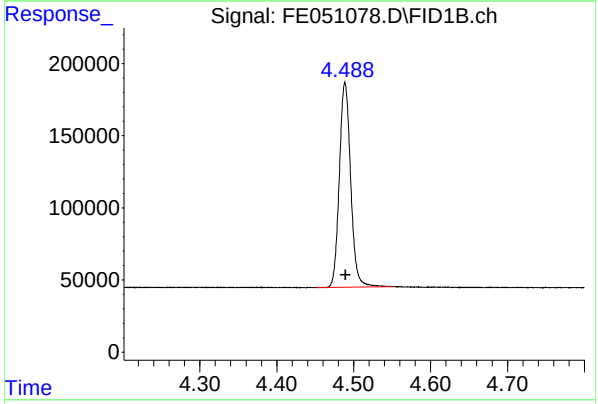
#1 n-Nonane (C9)

R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 1426184
Conc: 10.39 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

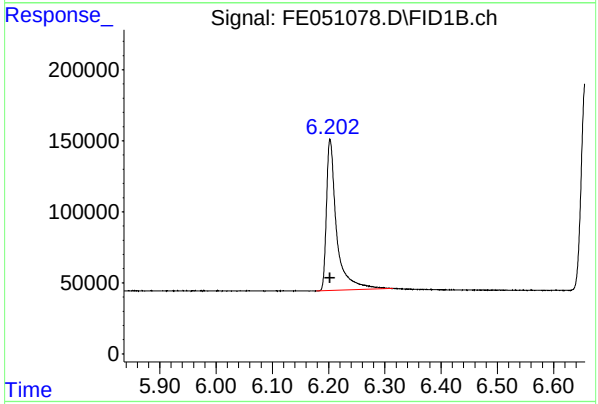
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



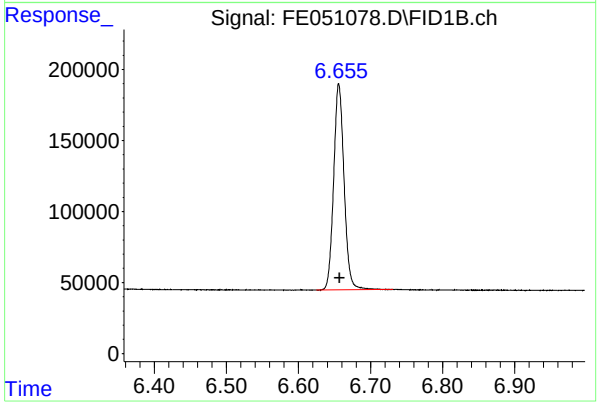
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 1444976
Conc: 10.39 ug/ml



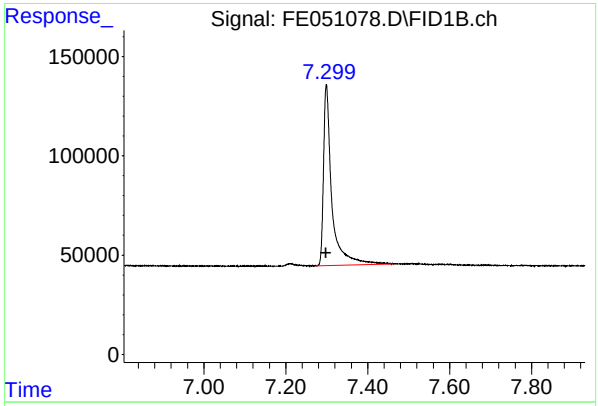
#3 A~Naphthalene (C11.7)

R.T.: 6.203 min
Delta R.T.: 0.001 min
Response: 1341147
Conc: 10.22 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.656 min
Delta R.T.: 0.000 min
Response: 1460396
Conc: 10.43 ug/ml



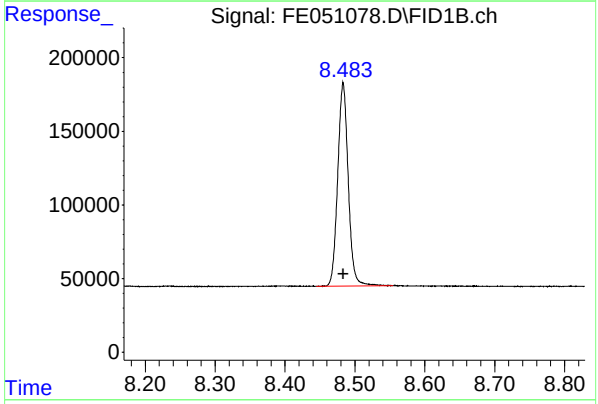
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.299 min
Delta R.T.: 0.000 min
Response: 1295139
Conc: 10.45 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

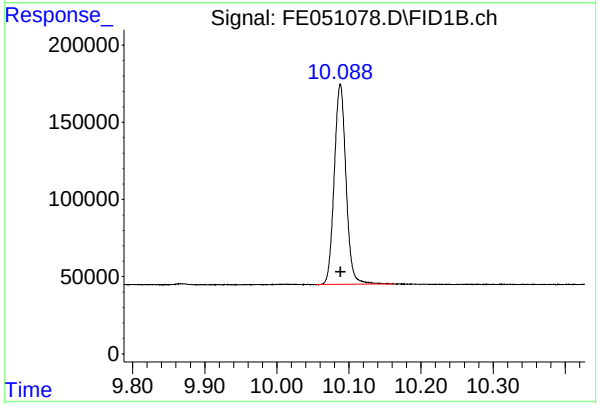
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



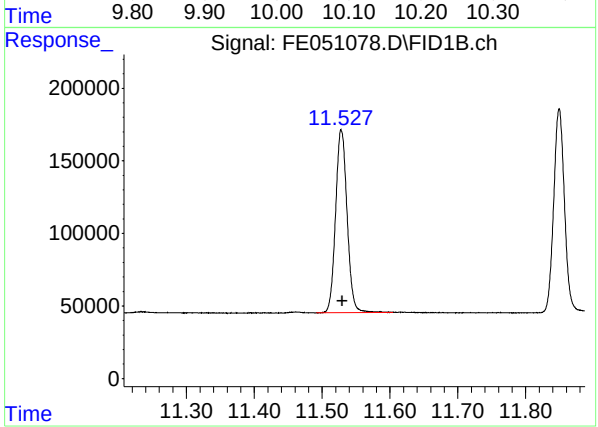
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 1443150
Conc: 10.45 ug/ml



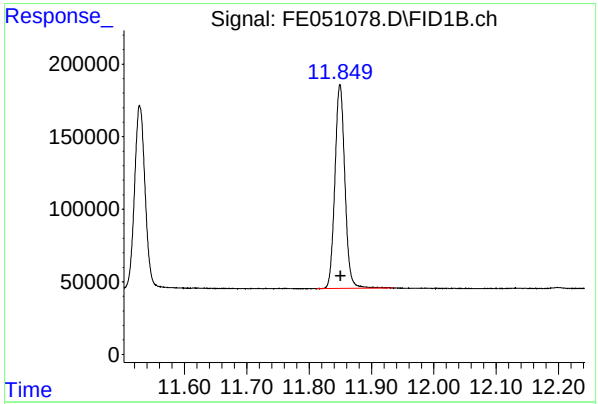
#7 n-Hexadecane (C16)

R.T.: 10.088 min
Delta R.T.: 0.000 min
Response: 1469868
Conc: 10.45 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.528 min
Delta R.T.: -0.001 min
Response: 1483612
Conc: 10.49 ug/ml



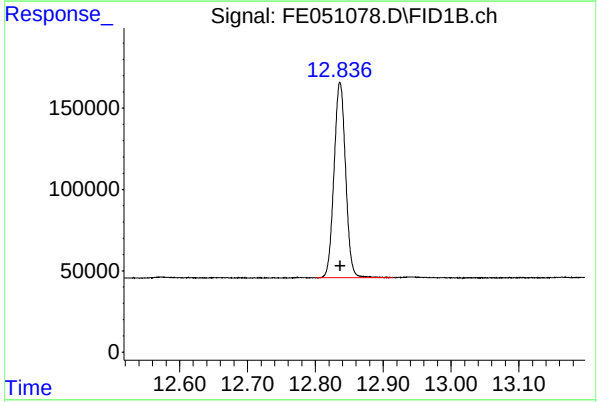
#9 ortho-Terphenyl (SURR)

R.T.: 11.849 min
Delta R.T.: 0.000 min
Response: 1565644
Conc: 10.54 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

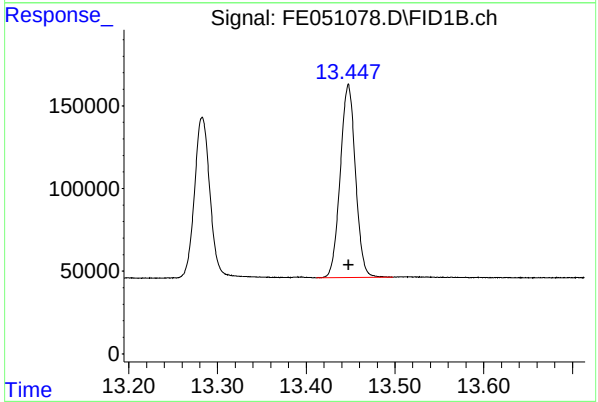
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



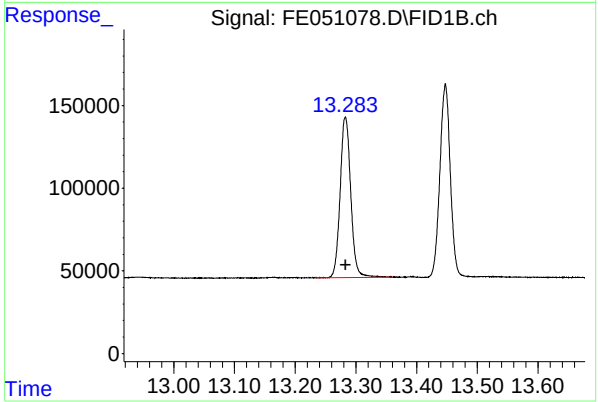
#10 n-Eicosane (C20)

R.T.: 12.836 min
Delta R.T.: 0.000 min
Response: 1425003
Conc: 10.52 ug/ml



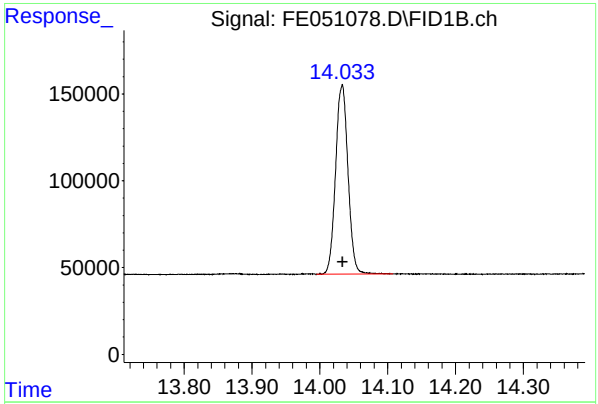
#11 n-Heneicosane (C21)

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 1390737
Conc: 10.51 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.283 min
Delta R.T.: 0.000 min
Response: 1176755
Conc: 10.46 ug/ml



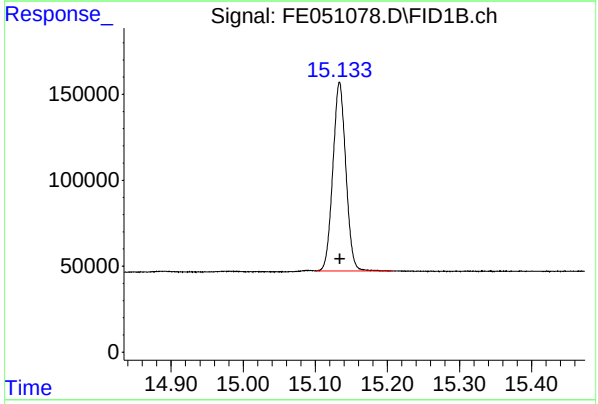
#13 n-Docosane (C22)

R.T.: 14.033 min
Delta R.T.: 0.000 min
Response: 1386349
Conc: 10.54 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

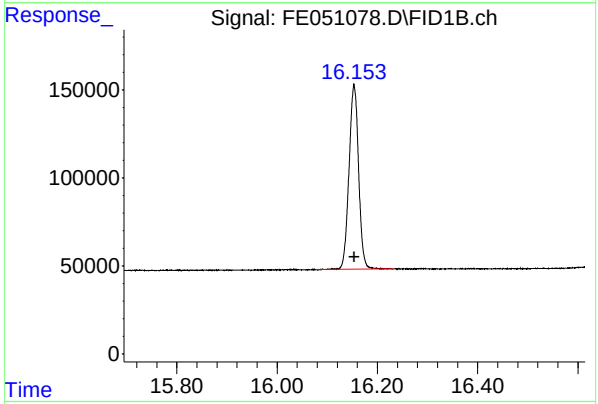
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



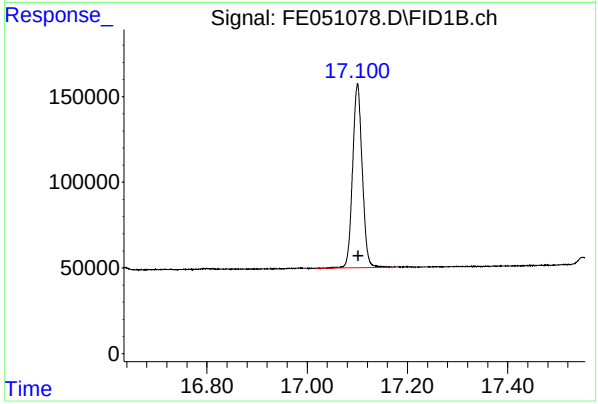
#14 n-Tetracosane (C24)

R.T.: 15.134 min
Delta R.T.: 0.000 min
Response: 1376518
Conc: 10.48 ug/ml



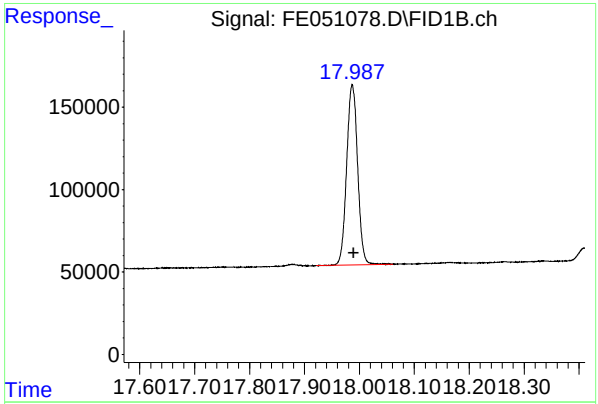
#15 n-Hexacosane (C26)

R.T.: 16.154 min
Delta R.T.: 0.000 min
Response: 1392936
Conc: 10.51 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.100 min
Delta R.T.: -0.002 min
Response: 1424573
Conc: 10.57 ug/ml



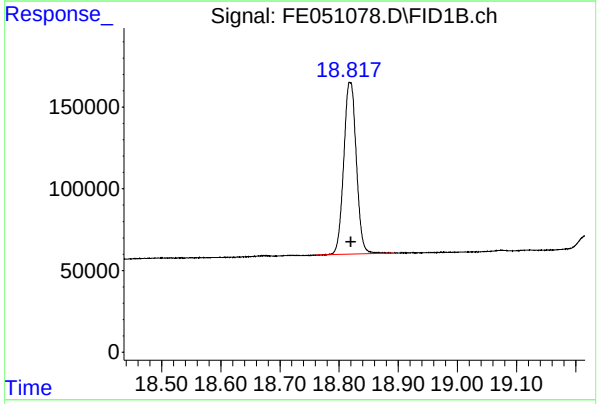
#17 n-Tricontane (C30)

R.T.: 17.987 min
Delta R.T.: -0.002 min
Response: 1518163
Conc: 10.57 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

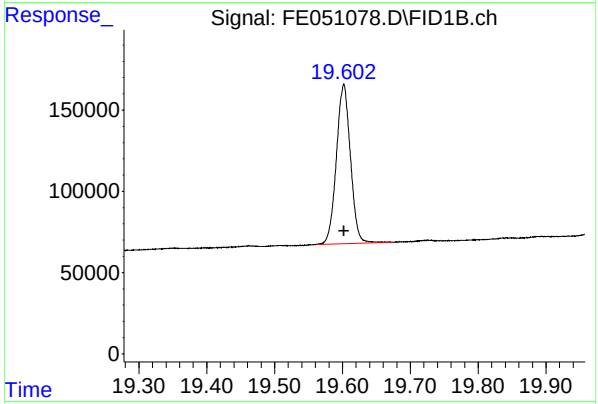
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



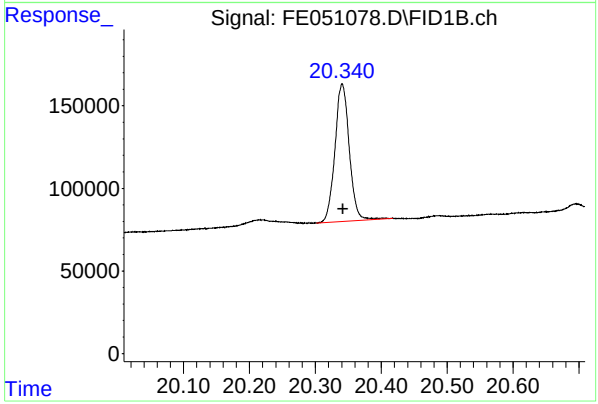
#18 n-Dotriacontane (C32)

R.T.: 18.819 min
Delta R.T.: -0.001 min
Response: 1556973
Conc: 10.61 ug/ml



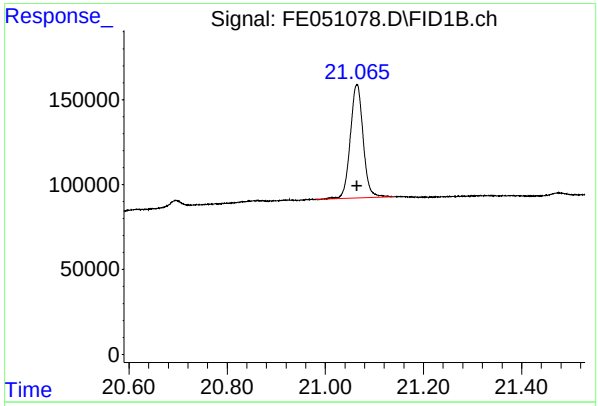
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 1411160
Conc: 10.64 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.341 min
Delta R.T.: 0.000 min
Response: 1260253
Conc: 10.71 ug/ml



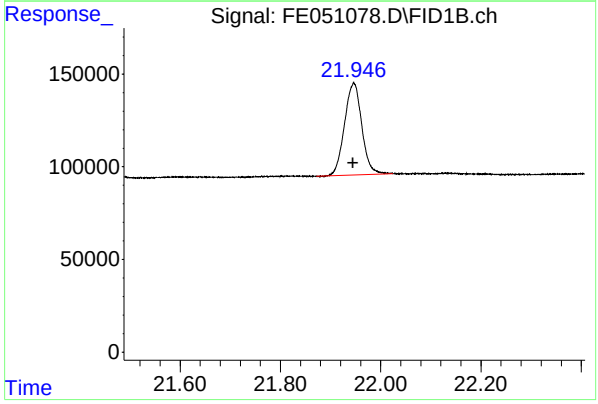
#21 n-Octatriacontane (C38)

R.T.: 21.064 min
Delta R.T.: 0.000 mi
Response: 1207468
Conc: 10.77 ug/m

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



#22 n-Tetracontane (C40)

R.T.: 21.946 min
Delta R.T.: 0.002 min
Response: 1185992
Conc: 10.84 ug/ml

rteres

Instrument :
FID_E
LabSampleId :
10 PPM ALIPHATIC HC STD4

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11072
Data File : FE051078.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:22
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.239	3.204	3.301	BB	139160	1426184	91.09%	4.675%
2	4.489	4.451	4.551	BB	141343	1444976	92.29%	4.737%
3	6.203	6.178	6.314	BB	104232	1341147	85.66%	4.397%
4	6.656	6.624	6.731	BB	142765	1460396	93.28%	4.787%
5	7.300	7.188	7.388	BB	88160	1156564	73.87%	3.791%
6	8.483	8.444	8.554	BB	137162	1443150	92.18%	4.731%
7	10.088	10.054	10.161	BB	129589	1469868	93.88%	4.819%
8	11.528	11.491	11.604	BB	126380	1483612	94.76%	4.864%
9	11.849	11.811	11.934	BB	139984	1565644	100.00%	5.133%
10	12.836	12.801	12.914	BB	120225	1425003	91.02%	4.671%
11	13.283	13.234	13.361	BB	96697	1176755	75.16%	3.858%
12	13.447	13.411	13.498	BB	116571	1390737	88.83%	4.559%
13	14.033	13.994	14.108	BB	108120	1386349	88.55%	4.545%
14	15.134	15.101	15.208	BB	109772	1376518	87.92%	4.513%
15	16.154	16.078	16.231	BB	104389	1392936	88.97%	4.566%
16	17.100	17.018	17.171	BB	107690	1424573	90.99%	4.670%
17	17.987	17.921	18.061	BB	108930	1518163	96.97%	4.977%
18	18.819	18.761	18.891	BB	105829	1556973	99.45%	5.104%
19	19.602	19.561	19.674	BB	97363	1411160	90.13%	4.626%
20	20.341	20.301	20.418	BB	83294	1260253	80.49%	4.131%
21	21.064	20.981	21.138	BB	66752	1207468	77.12%	3.958%
22	21.946	21.871	22.024	BB	49623	1185992	75.75%	3.888%
			Sum of corrected areas:			30504421		

Aliphatic EPH 110724.M Thu Nov 07 06:41:01 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051079.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:53
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File: autoint1.e
Quant Time: Nov 07 04:51:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:50:43 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.849	781023	5.407 ug/ml
Spiked Amount	50.000		Recovery =	10.81%
12) S	1-chlorooctadecane (S...	13.282	577997	5.240 ug/ml
Spiked Amount	50.000		Recovery =	10.48%
	Target Compounds			
1) T	n-Nonane (C9)	3.239	708000	5.280 ug/ml
2) T	n-Decane (C10)	4.489	713817	5.246 ug/ml
3) T	A~Naphthalene (C11.7)	6.207	571648	4.249 ug/ml
4) T	n-Dodecane (C12)	6.657	723070	5.287 ug/ml
5) T	A~2-methylnaphthalene...	7.303	546326	4.316 ug/ml
6) T	n-Tetradecane (C14)	8.483	717946	5.324 ug/ml
7) T	n-Hexadecane (C16)	10.088	729959	5.316 ug/ml
8) T	n-Octadecane (C18)	11.528	739553	5.372 ug/ml
10) T	n-Eicosane (C20)	12.836	716888	5.452 ug/ml
11) T	n-Heneicosane (C21)	13.447	695602	5.404 ug/ml
13) T	n-Docosane (C22)	14.031	694430	5.432 ug/ml
14) T	n-Tetracosane (C24)	15.133	692936	5.418 ug/ml
15) T	n-Hexacosane (C26)	16.151	703789	5.462 ug/ml
16) T	n-Octacosane (C28)	17.100	731057	5.612 ug/ml
17) T	n-Tricontane (C30)	17.987	808062	5.882 ug/ml
18) T	n-Dotriacontane (C32)	18.818	849237	6.107 ug/ml
19) T	n-Tetratriacontane (C34)	19.602	750913	5.929 ug/ml
20) T	n-Hexatriacontane (C36)	20.341	647398	5.720 ug/ml
21) T	n-Octatriacontane (C38)	21.063	614335	5.747 ug/ml
22) T	n-Tetracontane (C40)	21.941	608672	5.920 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051079.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:53
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 21 Sample Multiplier: 1

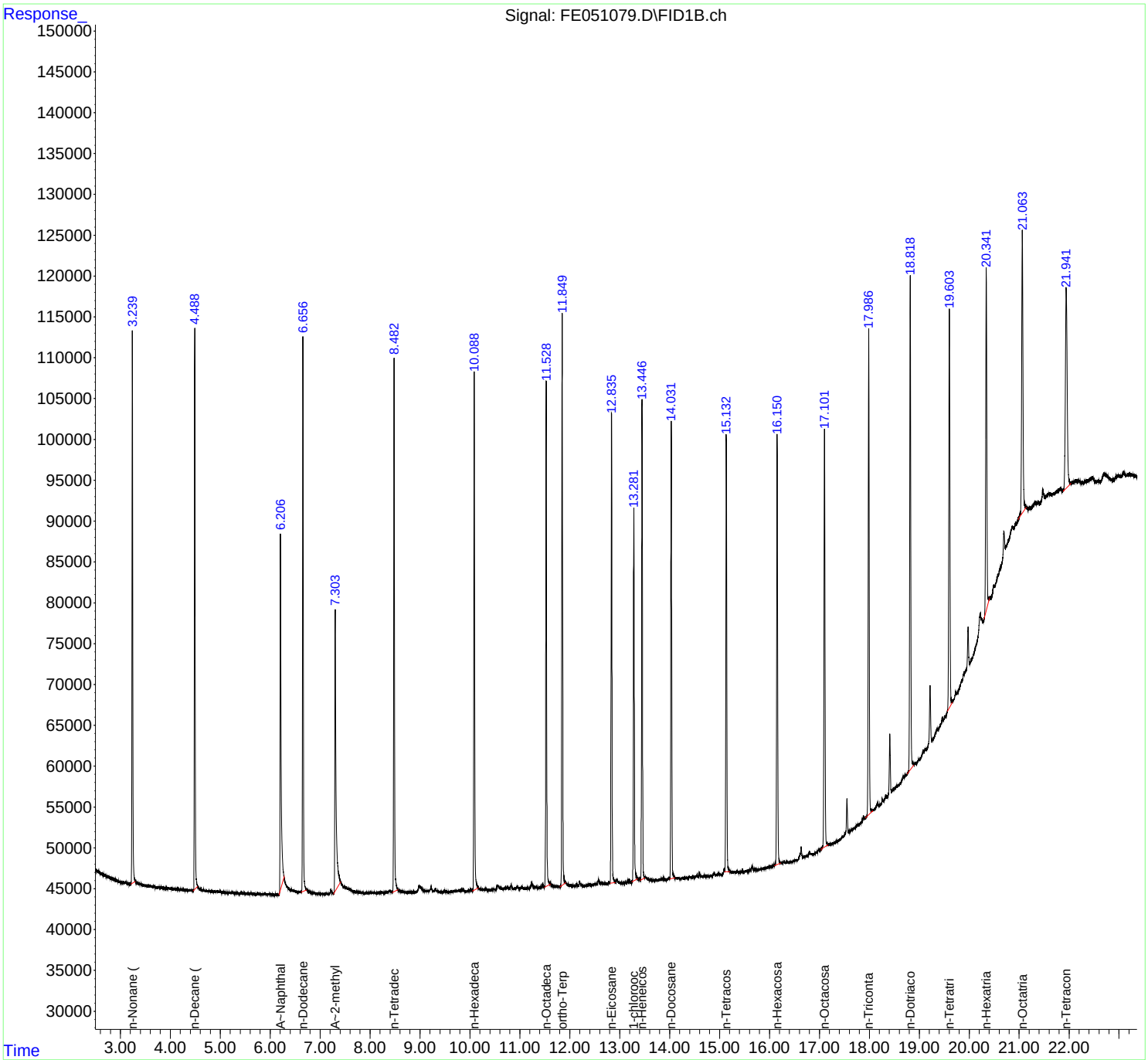
Integration File: autoint1.e
Quant Time: Nov 07 04:51:22 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:50:43 2024
Response via : Initial Calibration
Integrator: ChemStation

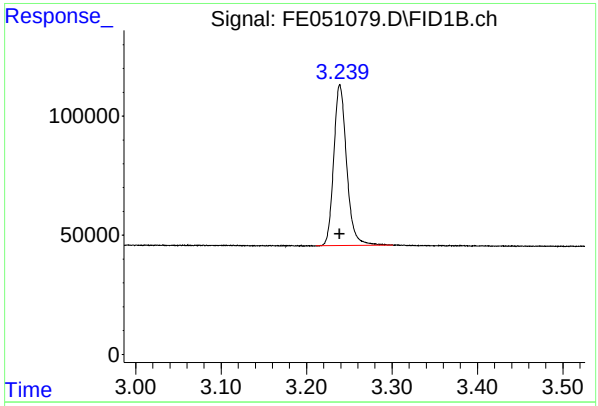
Volume Inj. : 1 ul
Signal Phase : Rxi-1ms
Signal Info : 20M x 0.18mm x 0.18um

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024





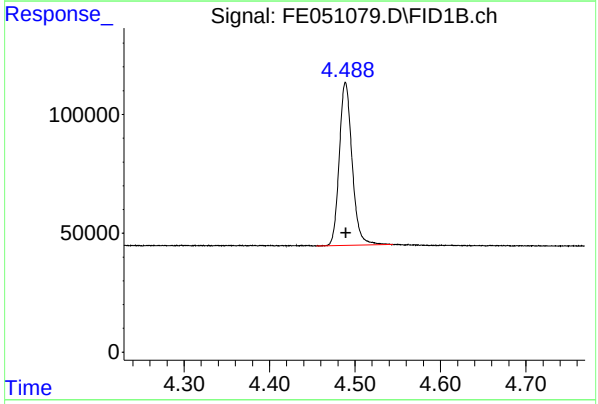
#1 n-Nonane (C9)

R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 708000
Conc: 5.28 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

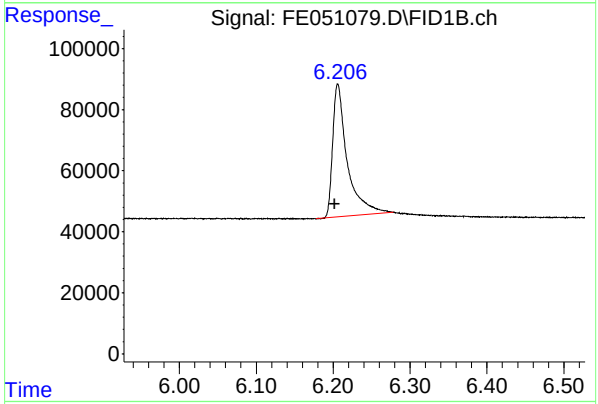
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



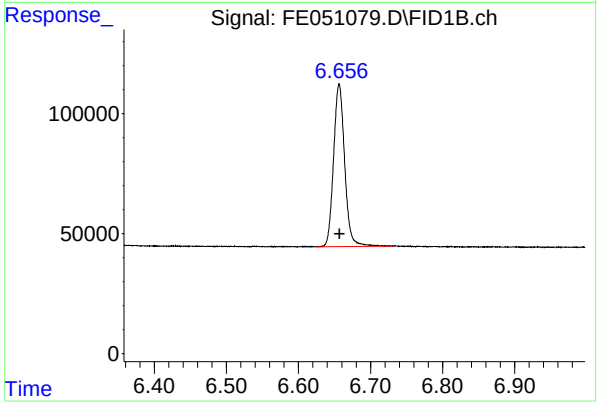
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 713817
Conc: 5.25 ug/ml



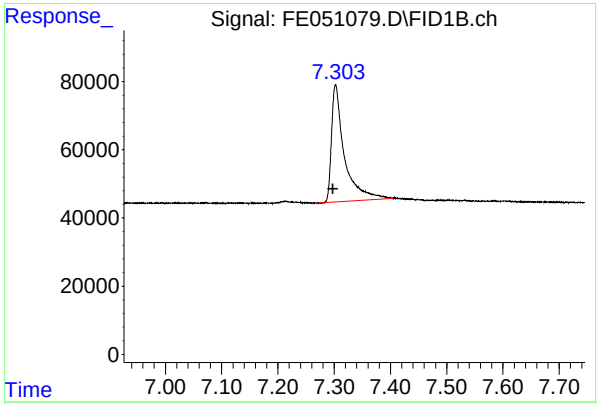
#3 A~Naphthalene (C11.7)

R.T.: 6.207 min
Delta R.T.: 0.005 min
Response: 571648
Conc: 4.25 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 723070
Conc: 5.29 ug/ml



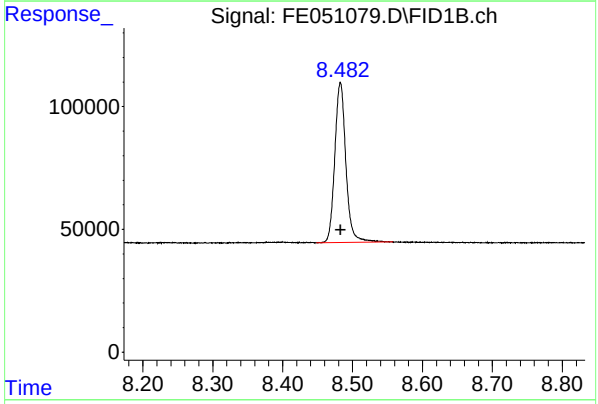
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.303 min
Delta R.T.: 0.005 min
Response: 546326
Conc: 4.32 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

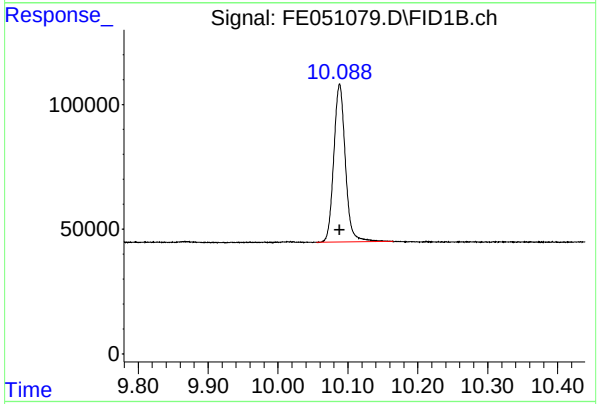
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



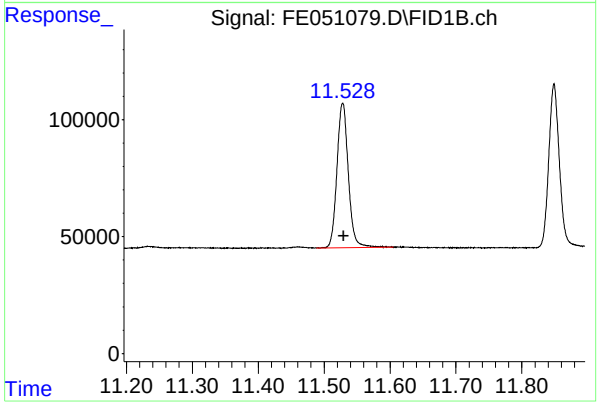
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 717946
Conc: 5.32 ug/ml



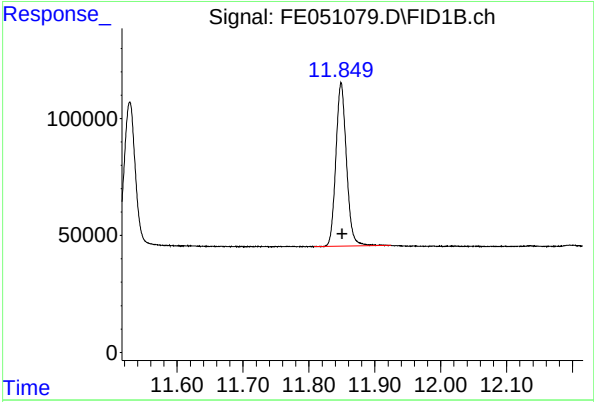
#7 n-Hexadecane (C16)

R.T.: 10.088 min
Delta R.T.: 0.000 min
Response: 729959
Conc: 5.32 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.528 min
Delta R.T.: -0.002 min
Response: 739553
Conc: 5.37 ug/ml



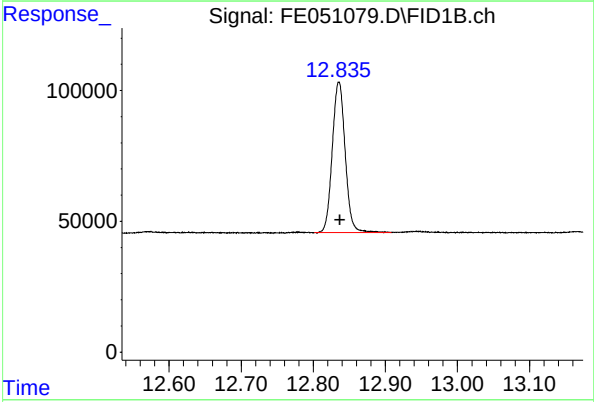
#9 ortho-Terphenyl (SURR)

R.T.: 11.849 min
Delta R.T.: -0.002 min
Response: 781023
Conc: 5.41 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

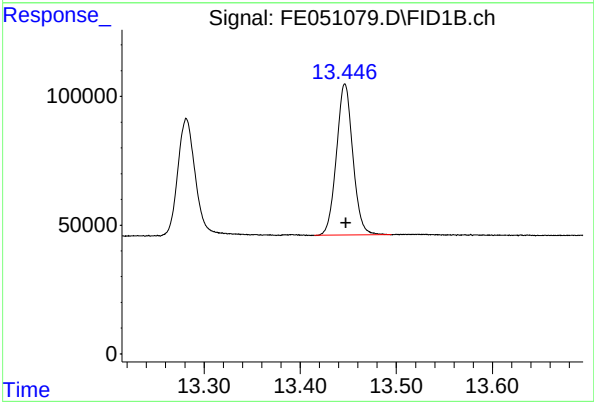
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



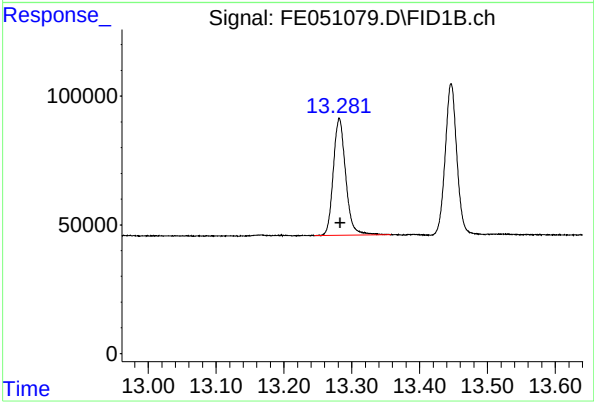
#10 n-Eicosane (C20)

R.T.: 12.836 min
Delta R.T.: -0.001 min
Response: 716888
Conc: 5.45 ug/ml



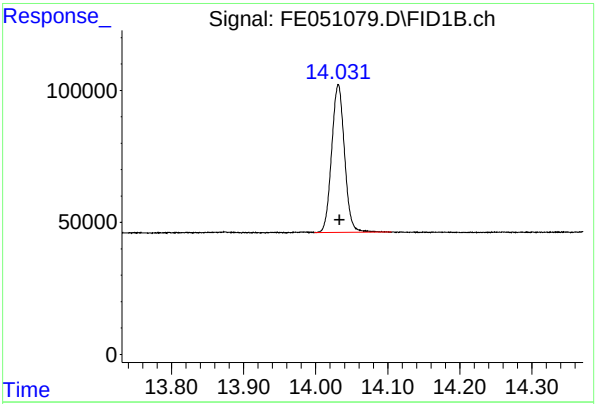
#11 n-Heneicosane (C21)

R.T.: 13.447 min
Delta R.T.: -0.001 min
Response: 695602
Conc: 5.40 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.282 min
Delta R.T.: -0.001 min
Response: 577997
Conc: 5.24 ug/ml



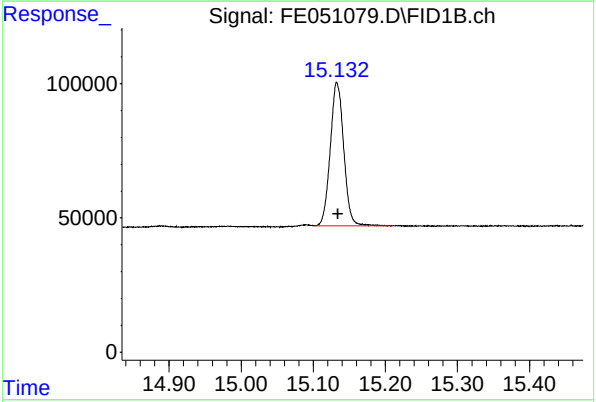
#13 n-Docosane (C22)

R.T.: 14.031 min
Delta R.T.: -0.002 min
Response: 694430
Conc: 5.43 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

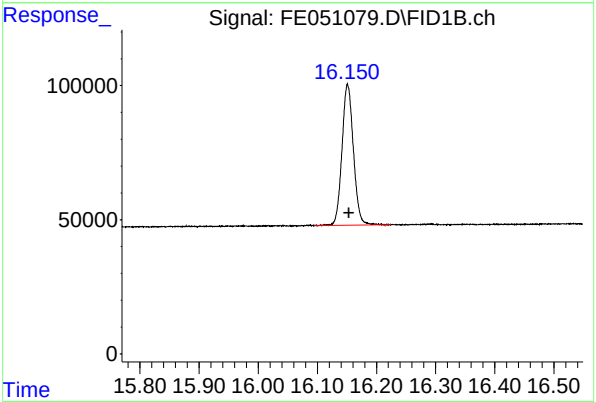
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



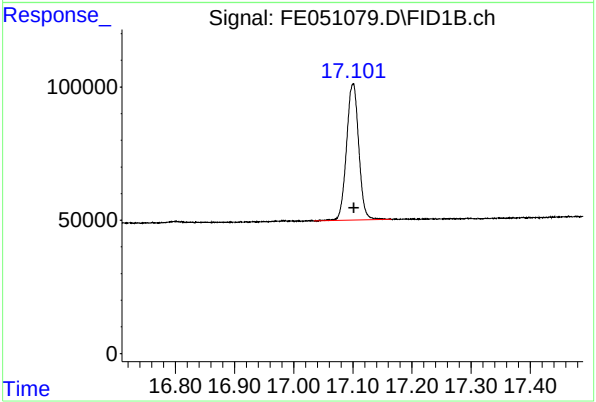
#14 n-Tetracosane (C24)

R.T.: 15.133 min
Delta R.T.: -0.001 min
Response: 692936
Conc: 5.42 ug/ml



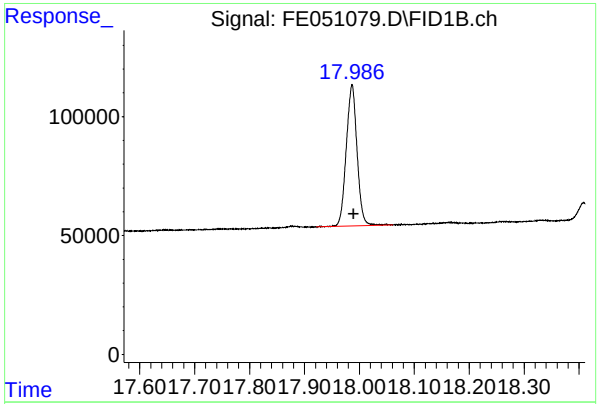
#15 n-Hexacosane (C26)

R.T.: 16.151 min
Delta R.T.: -0.002 min
Response: 703789
Conc: 5.46 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.100 min
Delta R.T.: -0.002 min
Response: 731057
Conc: 5.61 ug/ml



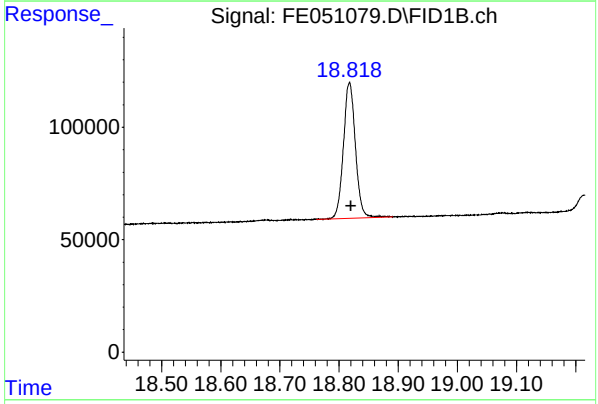
#17 n-Tricontane (C30)

R.T.: 17.987 min
Delta R.T.: -0.003 min
Response: 808062
Conc: 5.88 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

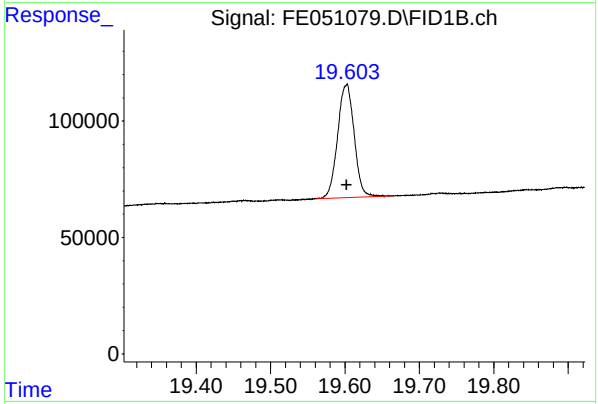
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



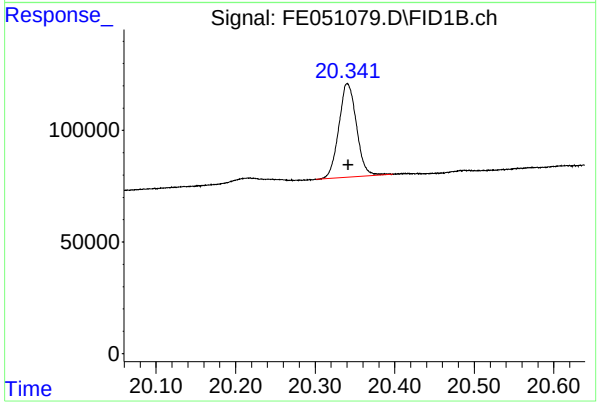
#18 n-Dotriacontane (C32)

R.T.: 18.818 min
Delta R.T.: -0.002 min
Response: 849237
Conc: 6.11 ug/ml



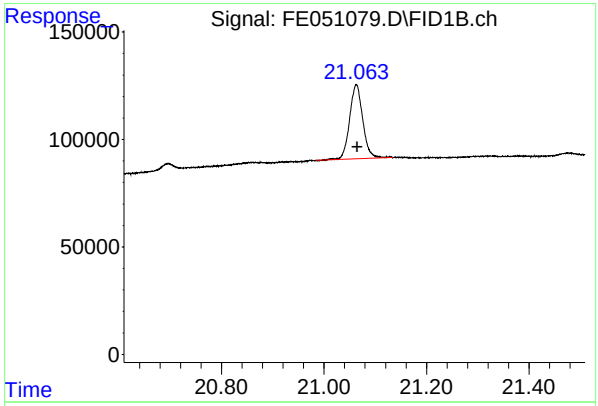
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 750913
Conc: 5.93 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.341 min
Delta R.T.: 0.000 min
Response: 647398
Conc: 5.72 ug/ml



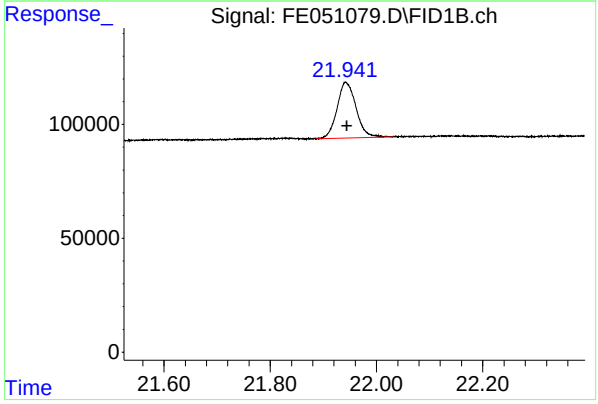
#21 n-Octatriacontane (C38)

R.T.: 21.063 min
Delta R.T.: -0.002 mi
Response: 614335
Conc: 5.75 ug/m

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024



#22 n-Tetracontane (C40)

R.T.: 21.941 min
Delta R.T.: -0.004 min
Response: 608672
Conc: 5.92 ug/ml m

Instrument :
FID_E
LabSampleId :
5 PPM ALIPHATIC HC STD5

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/07/2024
Supervised By :Ankita Jodhani 11/07/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11072
Data File : FE051079.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 18:53
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.239	3.211	3.301	BB	67350	708000	83.37%	4.619%
2	4.489	4.455	4.545	BB	68431	713817	84.05%	4.657%
3	6.207	6.178	6.278	BB	42646	571648	67.31%	3.729%
4	6.657	6.625	6.731	BB	67441	723070	85.14%	4.717%
5	7.303	7.268	7.405	BB	33847	546326	64.33%	3.564%
6	8.483	8.448	8.558	BB	64846	717946	84.54%	4.684%
7	10.088	10.055	10.165	BB	63141	729959	85.95%	4.762%
8	11.528	11.488	11.605	BB	61850	739553	87.08%	4.825%
9	11.849	11.808	11.925	BB	69310	781023	91.97%	5.095%
10	12.836	12.801	12.908	BB	57625	716888	84.42%	4.677%
11	13.282	13.245	13.358	BB	45285	577997	68.06%	3.771%
12	13.447	13.415	13.495	BB	58796	695602	81.91%	4.538%
13	14.031	13.998	14.105	BB	55901	694430	81.77%	4.530%
14	15.133	15.101	15.208	BB	52601	692936	81.60%	4.520%
15	16.151	16.095	16.224	BB	52412	703789	82.87%	4.591%
16	17.100	17.035	17.165	BB	51433	731057	86.08%	4.769%
17	17.987	17.921	18.061	BB	59581	808062	95.15%	5.271%
18	18.818	18.761	18.891	BB	60236	849237	100.00%	5.540%
19	19.602	19.561	19.665	BB	48298	750913	88.42%	4.899%
20	20.341	20.301	20.398	BB	41798	647398	76.23%	4.223%
21	21.063	20.985	21.135	BB	34779	614335	72.34%	4.008%
22	21.941	21.863	22.068	M	24507	615021	72.42%	4.012%
			Sum of corrected areas:			15329005		

Aliphatic EPH 110724.M Thu Nov 07 06:41:44 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051080.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 19:23
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 07 04:57:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.850	2942288	19.603 ug/ml
Spiked Amount	50.000		Recovery =	39.21%
12) S	1-chlorooctadecane (S...	13.282	2226415	19.611 ug/ml
Spiked Amount	50.000		Recovery =	39.22%
	Target Compounds			
1) T	n-Nonane (C9)	3.239	2722511	19.676 ug/ml
2) T	n-Decane (C10)	4.489	2753679	19.644 ug/ml
3) T	A~Naphthalene (C11.7)	6.202	2658198	20.161 ug/ml
4) T	n-Dodecane (C12)	6.657	2773973	19.646 ug/ml
5) T	A~2-methylnaphthalene...	7.298	2436503	19.477 ug/ml
6) T	n-Tetradecane (C14)	8.483	2733431	19.614 ug/ml
7) T	n-Hexadecane (C16)	10.088	2786787	19.638 ug/ml
8) T	n-Octadecane (C18)	11.529	2807159	19.657 ug/ml
10) T	n-Eicosane (C20)	12.835	2686473	19.630 ug/ml
11) T	n-Heneicosane (C21)	13.447	2623993	19.634 ug/ml
13) T	n-Docosane (C22)	14.032	2608929	19.623 ug/ml
14) T	n-Tetracosane (C24)	15.133	2597382	19.580 ug/ml
15) T	n-Hexacosane (C26)	16.153	2611945	19.511 ug/ml
16) T	n-Octacosane (C28)	17.101	2629871	19.291 ug/ml
17) T	n-Tricontane (C30)	17.987	2729015	18.784 ug/ml
18) T	n-Dotriacontane (C32)	18.818	2734748	18.418 ug/ml
19) T	n-Tetratriacontane (C34)	19.602	2494543	18.565 ug/ml
20) T	n-Hexatriacontane (C36)	20.342	2221919	18.622 ug/ml
21) T	n-Octatriacontane (C38)	21.064	2040381	17.927 ug/ml
22) T	n-Tetracontane (C40)	21.945	1820370	16.367 ug/ml

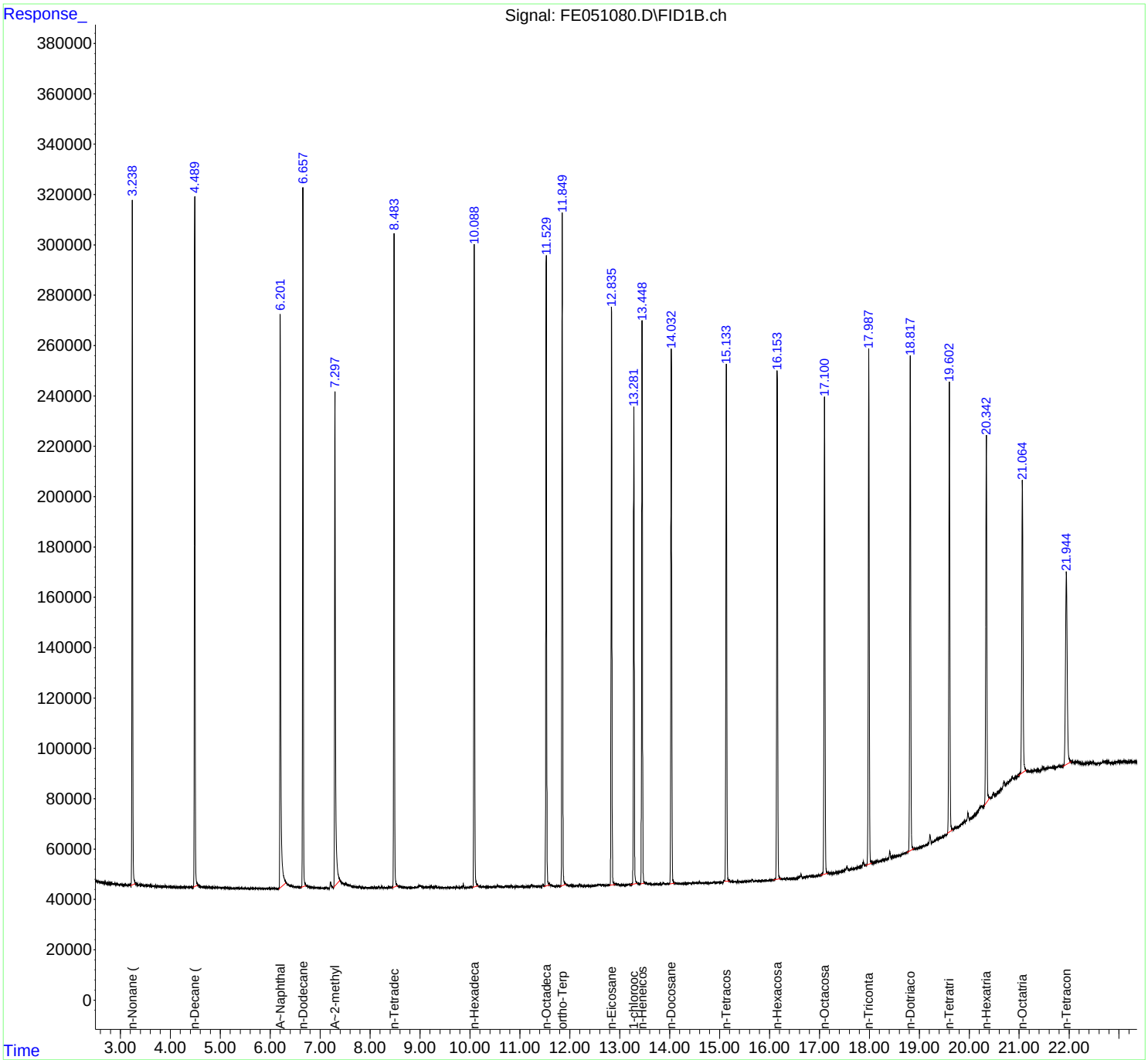
(f)=RT Delta > 1/2 Window (m)=manual int.

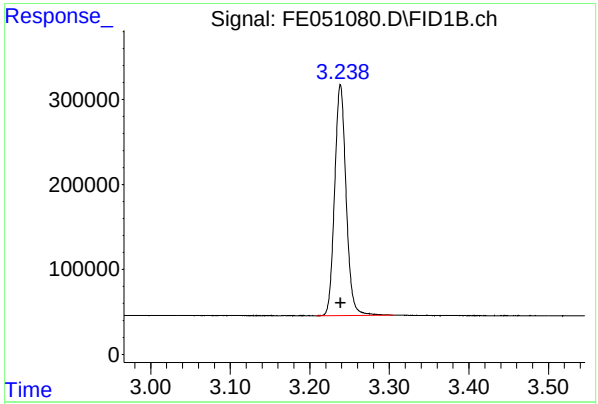
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051080.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 19:23
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 07 04:57:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

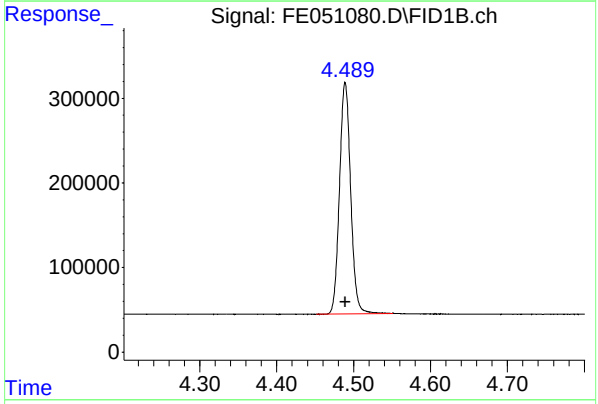




#1 n-Nonane (C9)

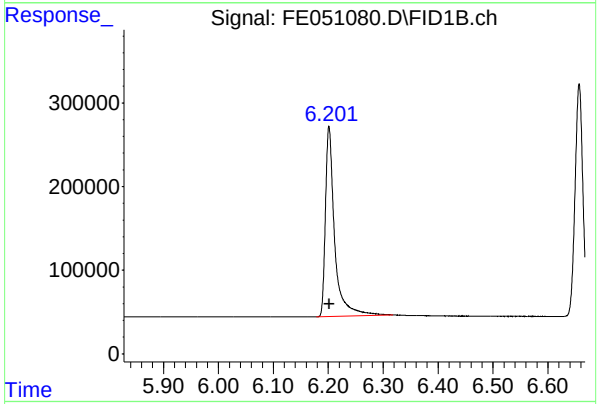
R.T.: 3.239 min
Delta R.T.: 0.000 min
Response: 2722511
Conc: 19.68 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



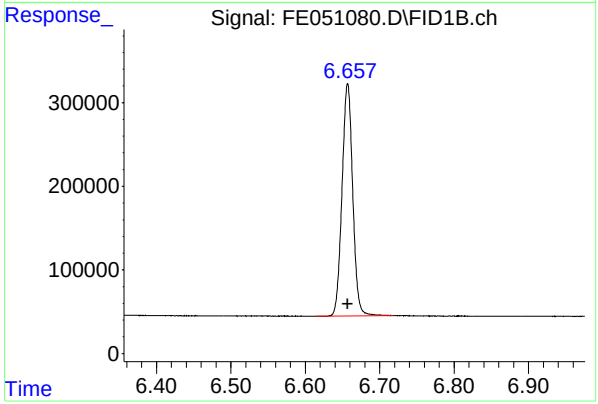
#2 n-Decane (C10)

R.T.: 4.489 min
Delta R.T.: 0.000 min
Response: 2753679
Conc: 19.64 ug/ml



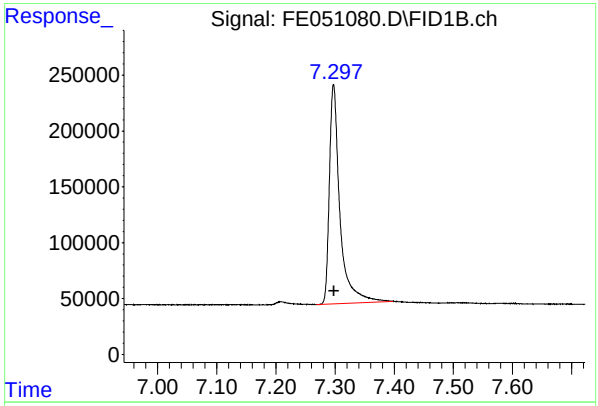
#3 A~Naphthalene (C11.7)

R.T.: 6.202 min
Delta R.T.: 0.000 min
Response: 2658198
Conc: 20.16 ug/ml



#4 n-Dodecane (C12)

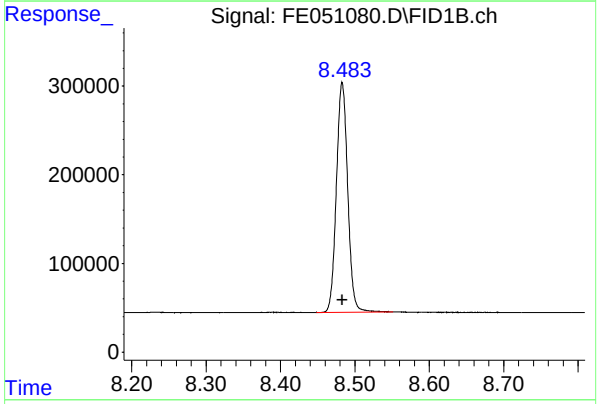
R.T.: 6.657 min
Delta R.T.: 0.000 min
Response: 2773973
Conc: 19.65 ug/ml



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

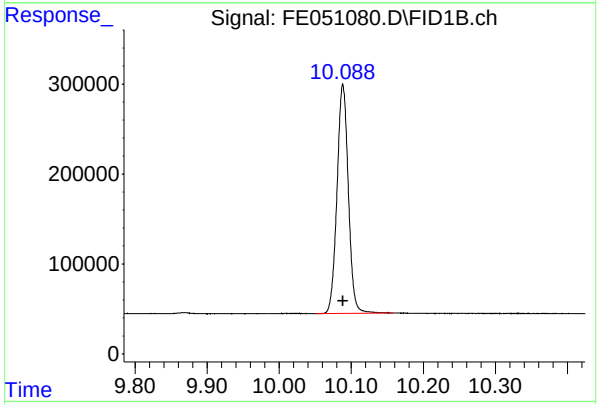
R.T.: 7.298 min
Delta R.T.: 0.000 min
Response: 2436503
Conc: 19.48 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



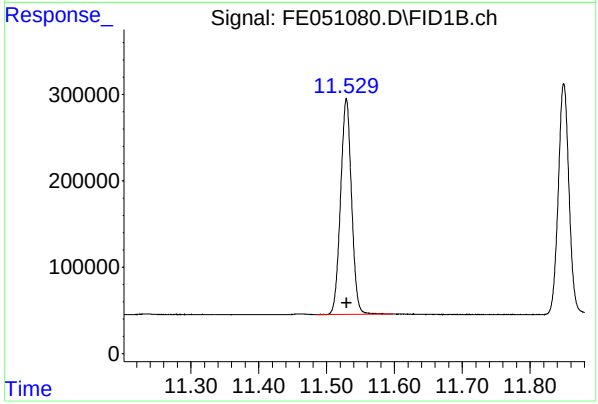
#6 n-Tetradecane (C14)

R.T.: 8.483 min
Delta R.T.: 0.000 min
Response: 2733431
Conc: 19.61 ug/ml



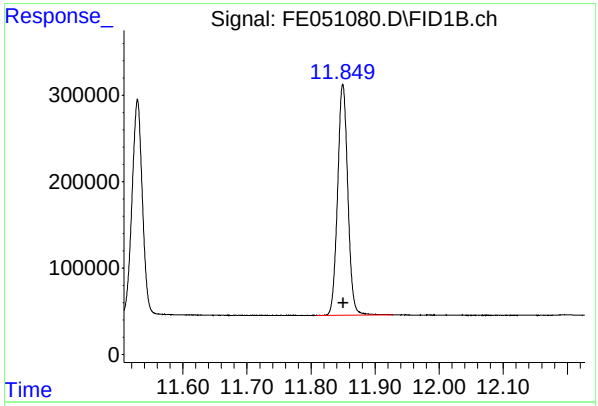
#7 n-Hexadecane (C16)

R.T.: 10.088 min
Delta R.T.: 0.000 min
Response: 2786787
Conc: 19.64 ug/ml



#8 n-Octadecane (C18)

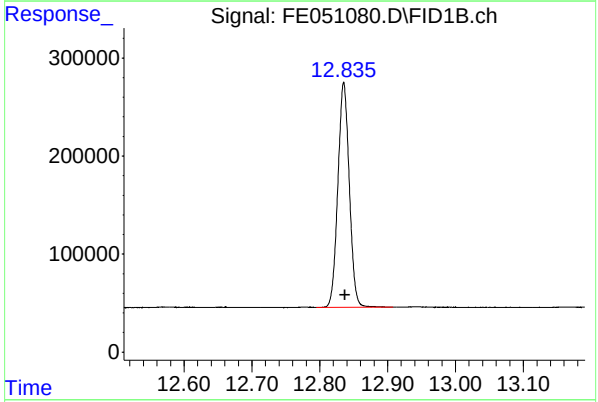
R.T.: 11.529 min
Delta R.T.: 0.000 min
Response: 2807159
Conc: 19.66 ug/ml



#9 ortho-Terphenyl (SURR)

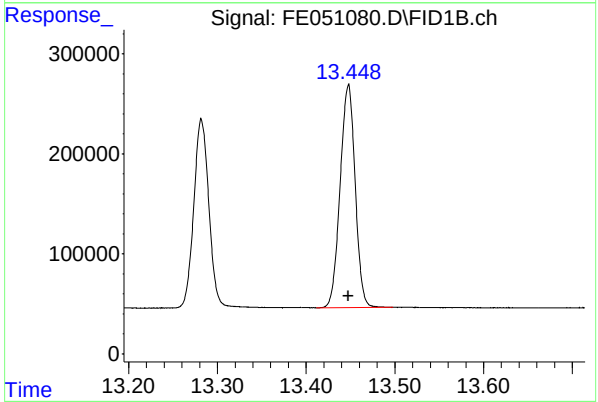
R.T.: 11.850 min
Delta R.T.: 0.000 min
Response: 2942288
Conc: 19.60 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



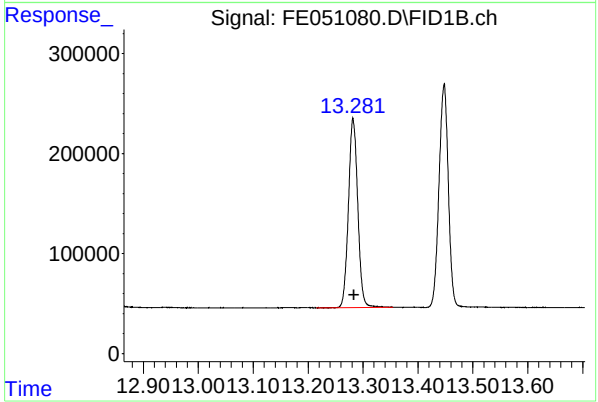
#10 n-Eicosane (C20)

R.T.: 12.835 min
Delta R.T.: -0.002 min
Response: 2686473
Conc: 19.63 ug/ml



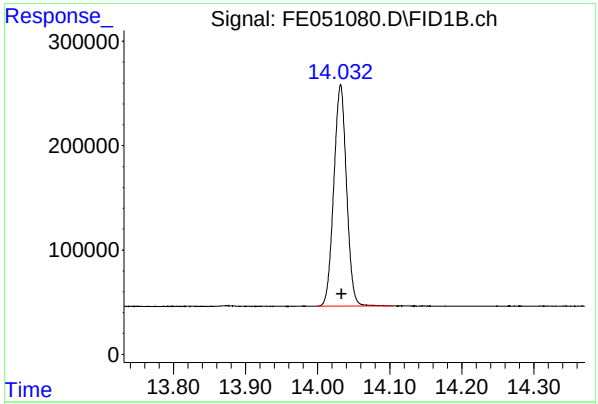
#11 n-Heneicosane (C21)

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 2623993
Conc: 19.63 ug/ml



#12 1-chlorooctadecane (SURR)

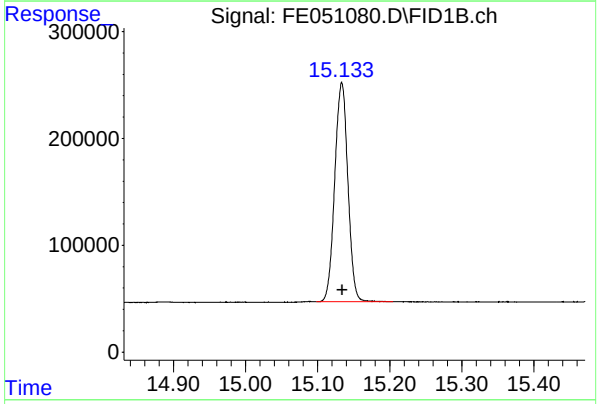
R.T.: 13.282 min
Delta R.T.: -0.001 min
Response: 2226415
Conc: 19.61 ug/ml



#13 n-Docosane (C22)

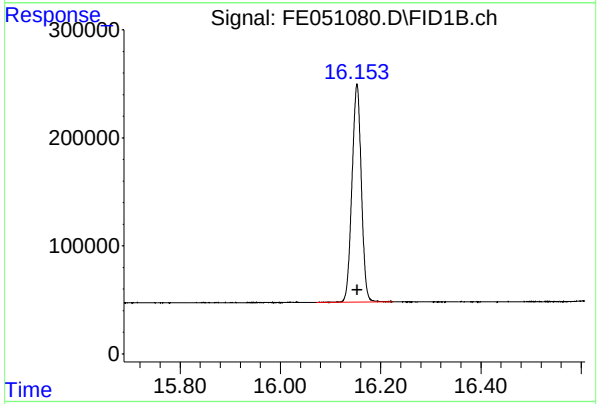
R.T.: 14.032 min
Delta R.T.: -0.002 min
Response: 2608929
Conc: 19.62 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



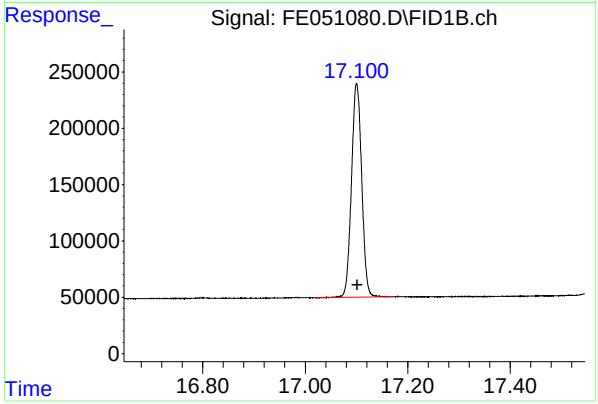
#14 n-Tetracosane (C24)

R.T.: 15.133 min
Delta R.T.: 0.000 min
Response: 2597382
Conc: 19.58 ug/ml



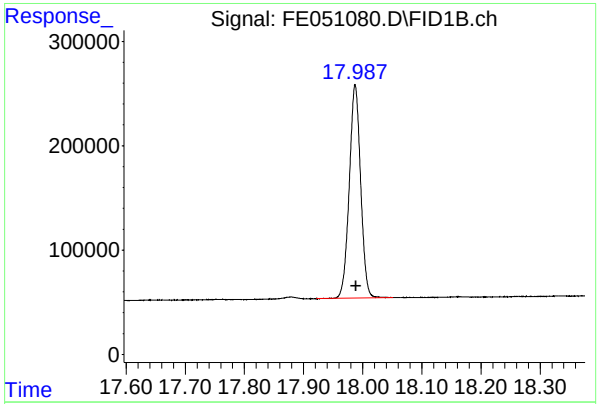
#15 n-Hexacosane (C26)

R.T.: 16.153 min
Delta R.T.: 0.000 min
Response: 2611945
Conc: 19.51 ug/ml



#16 n-Octacosane (C28)

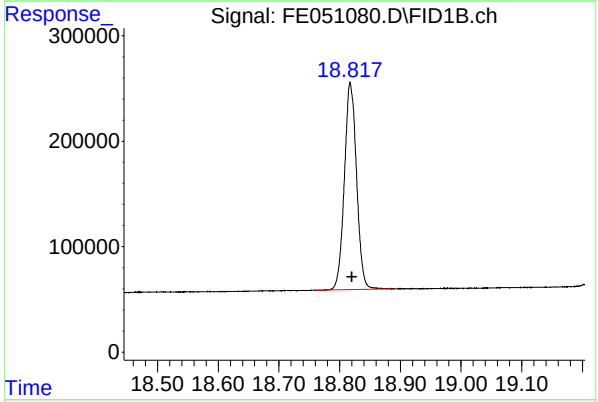
R.T.: 17.101 min
Delta R.T.: -0.001 min
Response: 2629871
Conc: 19.29 ug/ml



#17 n-Tricontane (C30)

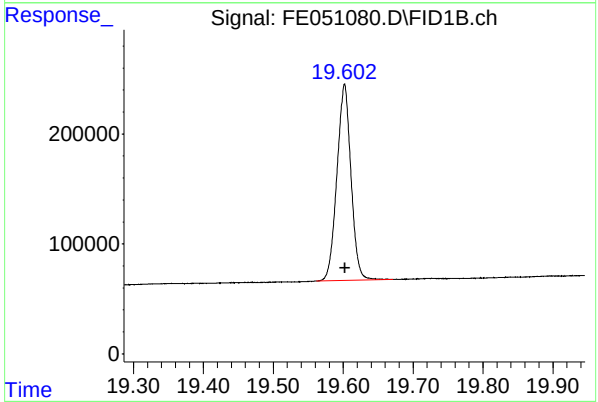
R.T.: 17.987 min
Delta R.T.: -0.002 min
Response: 2729015
Conc: 18.78 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



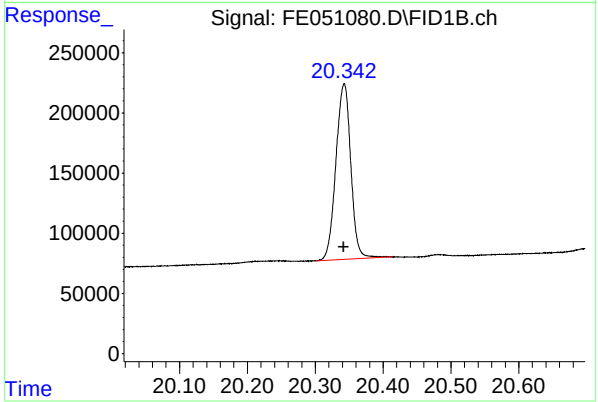
#18 n-Dotriacontane (C32)

R.T.: 18.818 min
Delta R.T.: -0.002 min
Response: 2734748
Conc: 18.42 ug/ml



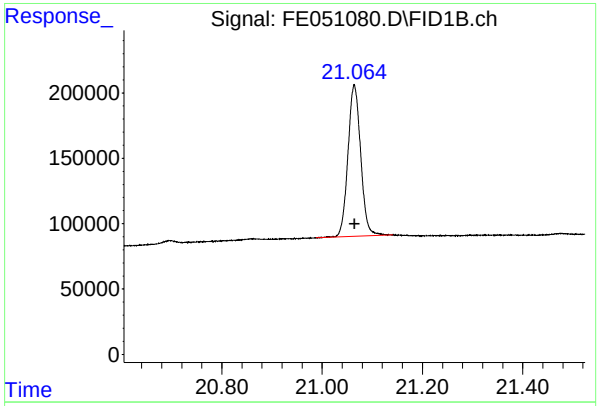
#19 n-Tetratriacontane (C34)

R.T.: 19.602 min
Delta R.T.: 0.000 min
Response: 2494543
Conc: 18.57 ug/ml



#20 n-Hexatriacontane (C36)

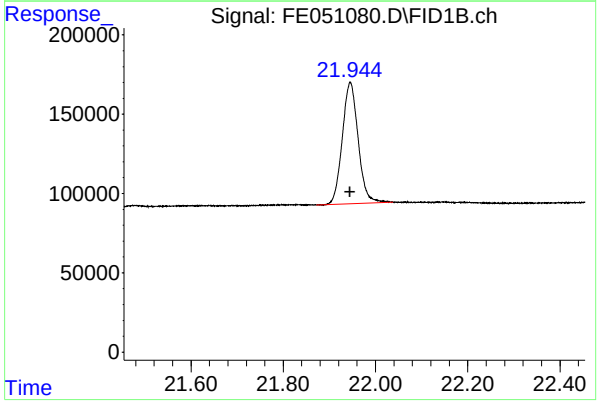
R.T.: 20.342 min
Delta R.T.: 0.000 min
Response: 2221919
Conc: 18.62 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.064 min
Delta R.T.: 0.000 min
Response: 2040381
Conc: 17.93 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.945 min
Delta R.T.: 0.000 min
Response: 1820370
Conc: 16.37 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE110724AL\
Data File : FE051080.D
Signal(s) : FID1B.ch
Acq On : 06 Nov 2024 19:23
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.239	3.208	3.305	BB	271236	2722511	92.53%	4.807%
2	4.489	4.451	4.551	BB	272872	2753679	93.59%	4.862%
3	6.202	6.178	6.318	BB	226737	2658198	90.34%	4.693%
4	6.657	6.615	6.718	BB	278018	2773973	94.28%	4.898%
5	7.298	7.268	7.398	BB	195643	2436503	82.81%	4.302%
6	8.483	8.448	8.551	BB	257377	2733431	92.90%	4.826%
7	10.088	10.051	10.158	BB	254117	2786787	94.71%	4.920%
8	11.529	11.485	11.598	BB	247998	2807159	95.41%	4.956%
9	11.850	11.808	11.928	BB	267050	2942288	100.00%	5.195%
10	12.835	12.795	12.908	BB	229102	2686473	91.31%	4.743%
11	13.282	13.215	13.355	BB	188494	2226415	75.67%	3.931%
12	13.447	13.411	13.498	BB	223472	2623993	89.18%	4.633%
13	14.032	13.998	14.105	BB	211282	2608929	88.67%	4.606%
14	15.133	15.098	15.205	BB	205691	2597382	88.28%	4.586%
15	16.153	16.071	16.225	BB	199890	2611945	88.77%	4.611%
16	17.101	17.021	17.171	BB	189007	2629871	89.38%	4.643%
17	17.987	17.921	18.051	BB	204277	2729015	92.75%	4.818%
18	18.818	18.761	18.888	BB	194905	2734748	92.95%	4.828%
19	19.602	19.561	19.671	BB	177807	2494543	84.78%	4.404%
20	20.342	20.301	20.415	BB	145539	2221919	75.52%	3.923%
21	21.064	20.988	21.141	BB	115781	2040381	69.35%	3.602%
22	21.945	21.871	22.038	BB	76545	1820370	61.87%	3.214%
			Sum of corrected areas:			56640511		

Aliphatic EPH 110724.M Thu Nov 07 06:42:42 2024

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

Inital Calibration Report for SequenceID : FF111524AR

AreaCount

Parameter Range	FF015043.D	FF015044.D	FF015045.D	FF015046.D	FF015047.D	
Aromatic C10-C12	25624619.000	12840457.000	5431334.000	2862696.000	1484837.000	
Aromatic C12-C16	38044279.000	19112981.000	8004546.000	4224718.000	2199658.000	
Aromatic C16-C21	48194073.000	24139876.000	10075602.000	5320691.000	2786424.000	
Aromatic C21-C36	101218315.000	51088854.000	21647169.000	11444761.000	6117333.000	
Aromatic EPH	213081286.000	107182168.000	45158651.000	23852866.000	12588252.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aromatic C10-C12	136785.903	6.574				
Aromatic C12-C16	135022.207333	6.376				
Aromatic C16-C21	127893.6125	6.392				
Aromatic C21-C36	121872.4751108	8.067				
Aromatic EPH	127059.1752218	7.206				

Concentration

Parameter Range	FF015043.D	FF015044.D	FF015045.D	FF015046.D	FF015047.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	FF015043.D	FF015044.D	FF015045.D	FF015046.D	FF015047.D	
Aromatic C10-C12	128123.095000	128404.570000	135783.350000	143134.800000	148483.700000	
Aromatic C12-C16	126814.263333	127419.873333	133409.100000	140823.933333	146643.866666	
Aromatic C16-C21	120485.182500	120699.380000	125945.025000	133017.275000	139321.200000	
Aromatic C21-C36	112464.794444	113530.786666	120262.050000	127164.011111	135940.733333	
Aromatic EPH	118378.492222	119091.297777	125440.697222	132515.922222	139869.466666	

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015043.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 17:34
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 15 01:56:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.996	11473751	97.402 ug/ml
Spiked Amount	50.000		Recovery =	194.80%
6) S	2-Flurobiphenyl (SURR)	8.872	7700926	97.623 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	195.25%#
11) S	ortho-Terphenyl (SURR)	11.933	12529781	97.422 ug/ml
Spiked Amount	50.000		Recovery =	194.84%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.611	12653641	97.015 ug/ml
2) T	Naphthalene (C11.7)	6.277	12970978	97.178 ug/ml
3) T	2-Methylnaphthalene (...	7.372	12685111	97.428 ug/ml
5) T	Acenaphthylene (C15.06)	8.673	12831816	97.542 ug/ml
7) T	Acenaphthene (C15.5)	8.973	12527352	97.426 ug/ml
8) T	Flouorene (C16.55)	9.762	12585943	97.843 ug/ml
9) T	Phenanthrene (C19.36)	11.168	12110587	97.903 ug/ml
10) T	Anthracene (C19.43)	11.244	11843161	97.652 ug/ml
12) T	Fluoranthene (C21.85)	12.989	11780977	97.826 ug/ml
13) T	Pyrene (C20.8)	13.289	11654382	97.733 ug/ml
14) T	Benzo[a]anthracene (C...	15.167	11099011	97.341 ug/ml
15) T	Chrysene (C27.41)	15.215	11068748	96.994 ug/ml
16) T	benzo[b]fluoranthene ...	16.728	11328975	97.482 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.766	11022543	96.870 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.111	10798930	96.467 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.485	11304809	98.151 ug/ml
20) T	Dibenz[a,h]anthracene...	18.525	10851164	94.079 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.750	11963158	96.417 ug/ml

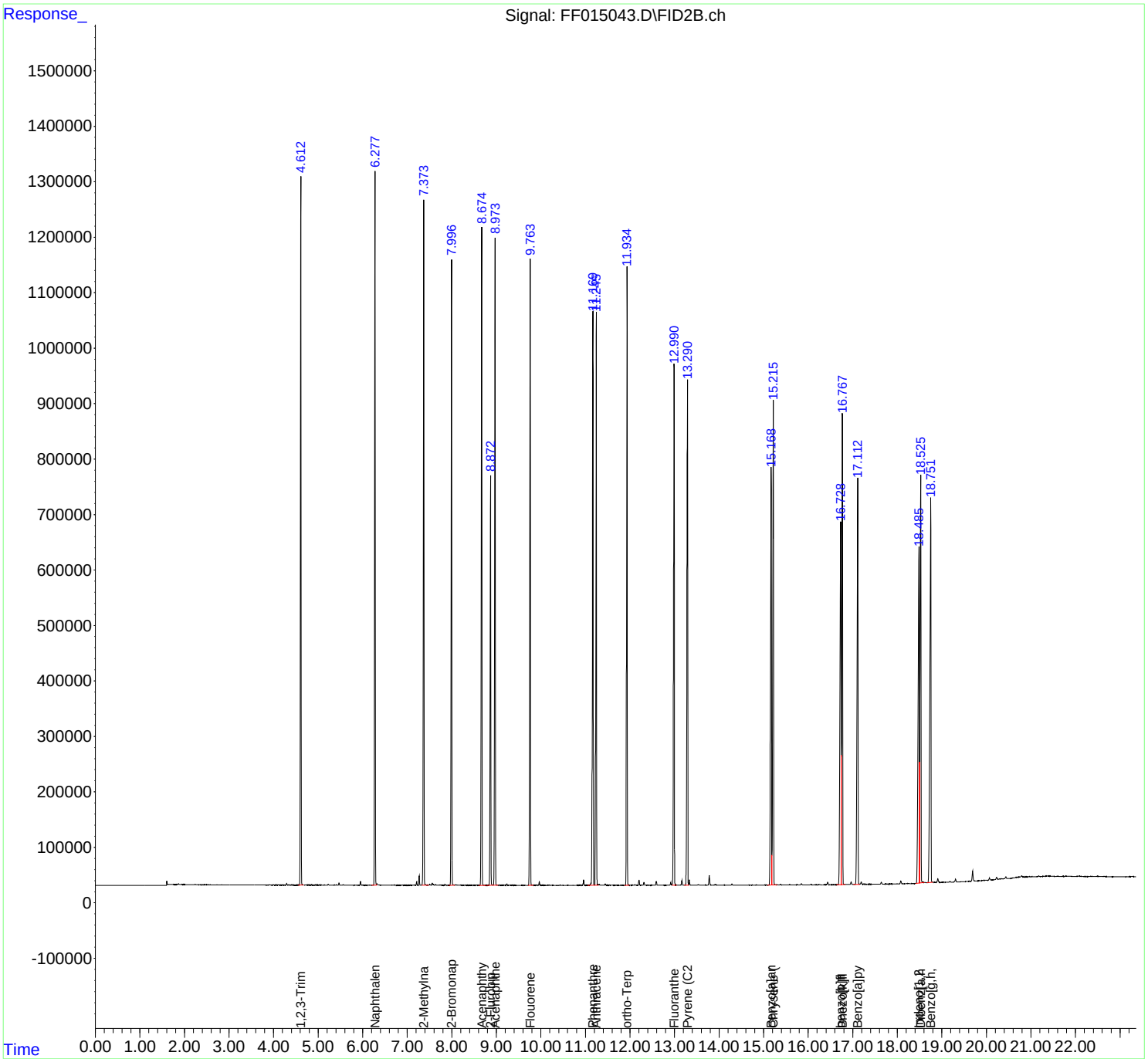
(f)=RT Delta > 1/2 Window (m)=manual int.

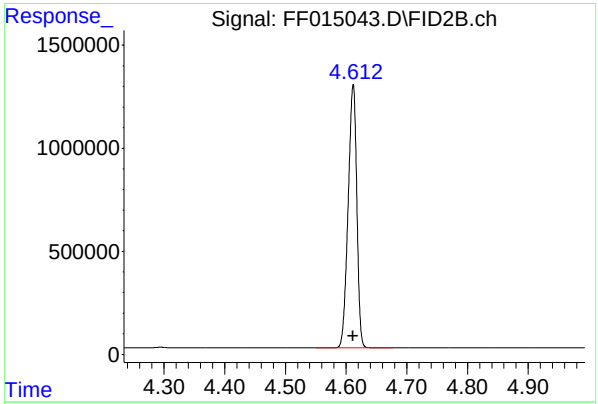
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015043.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 17:34
Operator : YP\AJ
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

Integration File: autoint1.e
Quant Time: Nov 15 01:56:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

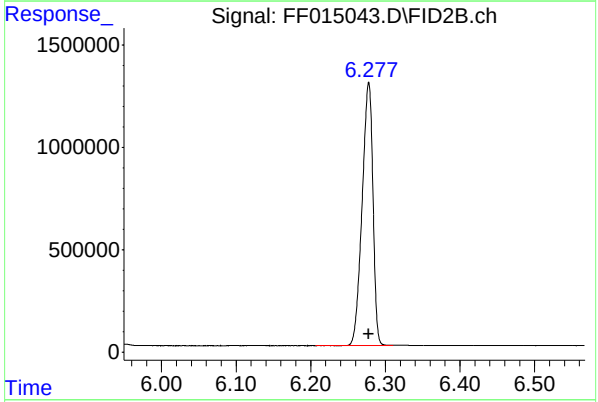




#1 1,2,3-Trimethylbenzene (C10.1)

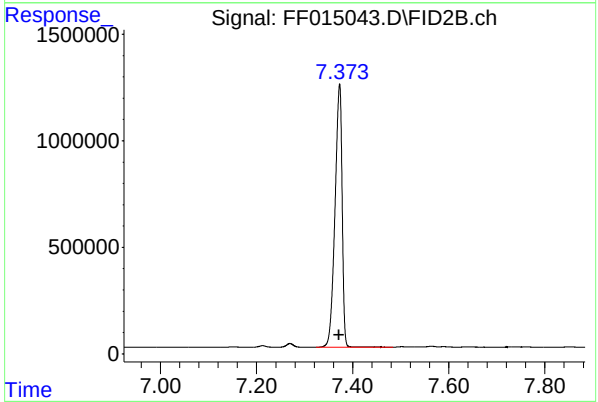
R.T.: 4.611 min
Delta R.T.: 0.000 min
Response: 12653641
Conc: 97.02 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



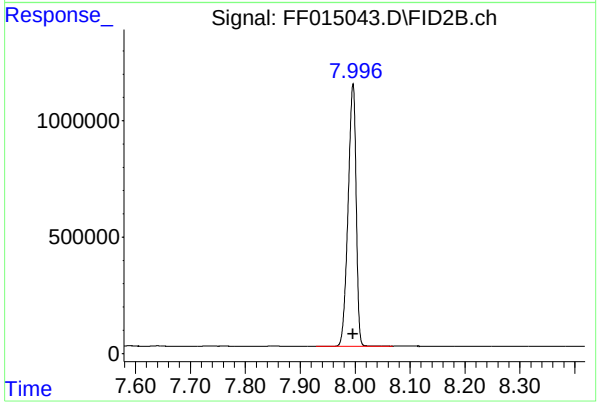
#2 Naphthalene (C11.7)

R.T.: 6.277 min
Delta R.T.: 0.000 min
Response: 12970978
Conc: 97.18 ug/ml



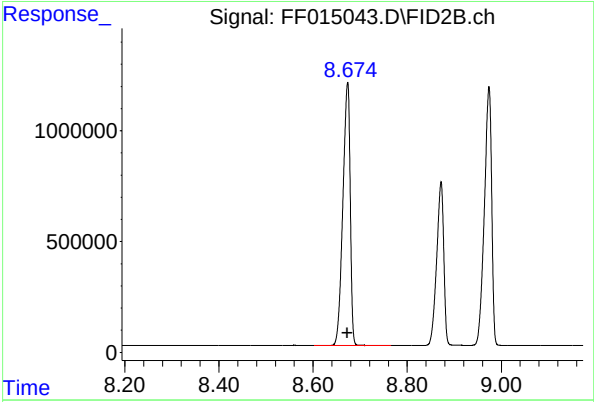
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.372 min
Delta R.T.: 0.000 min
Response: 12685111
Conc: 97.43 ug/ml



#4 2-Bromonaphthalene (SURR)

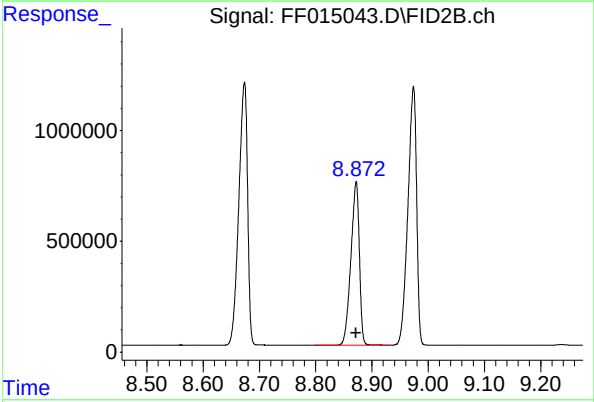
R.T.: 7.996 min
Delta R.T.: 0.000 min
Response: 11473751
Conc: 97.40 ug/ml



#5 Acenaphthylene (C15.06)

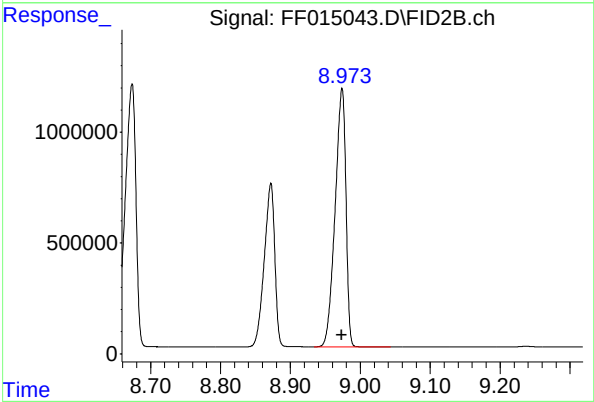
R.T.: 8.673 min
Delta R.T.: 0.000 min
Response: 12831816
Conc: 97.54 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



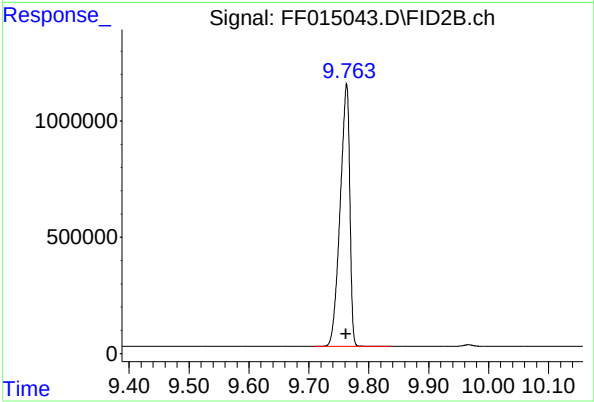
#6 2-Flurobiphenyl (SURR)

R.T.: 8.872 min
Delta R.T.: 0.000 min
Response: 7700926
Conc: 97.62 ug/ml



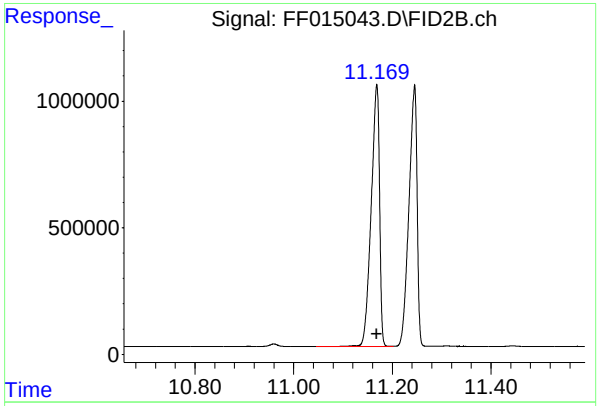
#7 Acenaphthene (C15.5)

R.T.: 8.973 min
Delta R.T.: 0.000 min
Response: 12527352
Conc: 97.43 ug/ml



#8 Flouorene (C16.55)

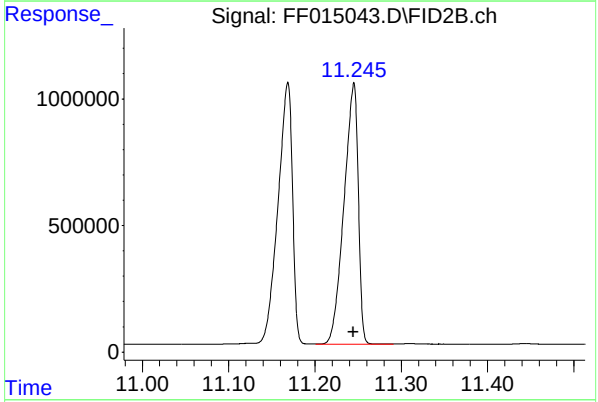
R.T.: 9.762 min
Delta R.T.: 0.000 min
Response: 12585943
Conc: 97.84 ug/ml



#9 Phenanthrene (C19.36)

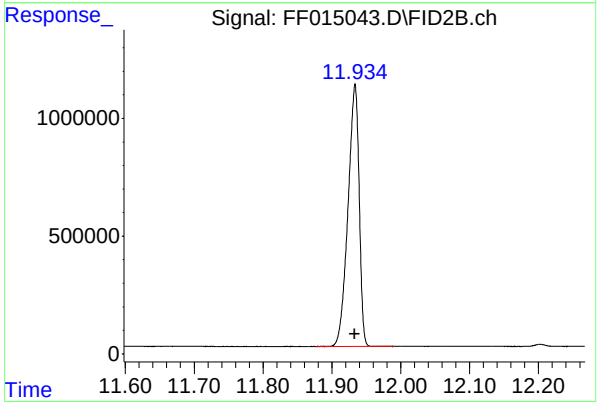
R.T.: 11.168 min
Delta R.T.: 0.000 min
Response: 12110587
Conc: 97.90 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



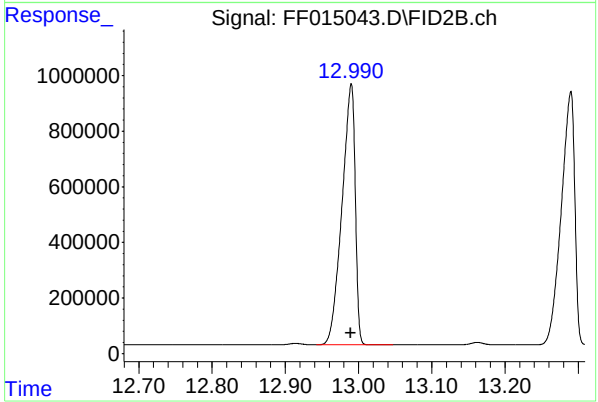
#10 Anthracene (C19.43)

R.T.: 11.244 min
Delta R.T.: 0.000 min
Response: 11843161
Conc: 97.65 ug/ml



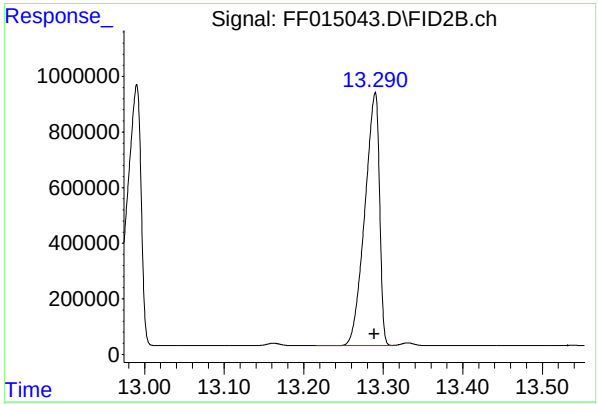
#11 ortho-Terphenyl (SURR)

R.T.: 11.933 min
Delta R.T.: 0.000 min
Response: 12529781
Conc: 97.42 ug/ml



#12 Fluoranthene (C21.85)

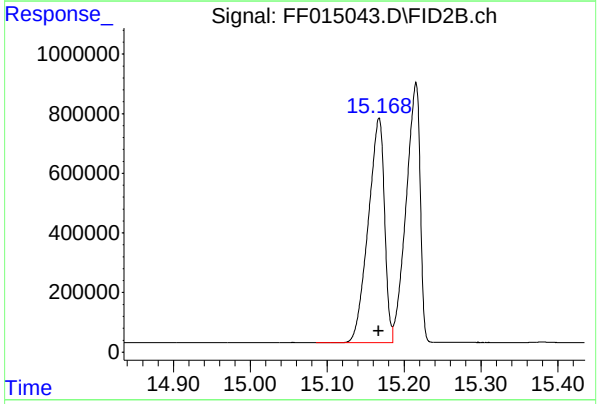
R.T.: 12.989 min
Delta R.T.: 0.000 min
Response: 11780977
Conc: 97.83 ug/ml



#13 Pyrene (C20.8)

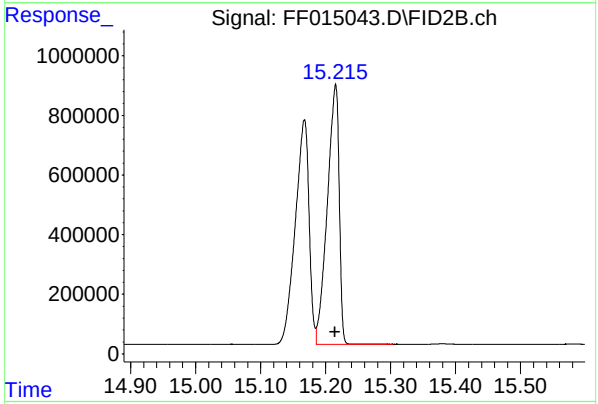
R.T.: 13.289 min
Delta R.T.: 0.000 min
Response: 11654382
Conc: 97.73 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



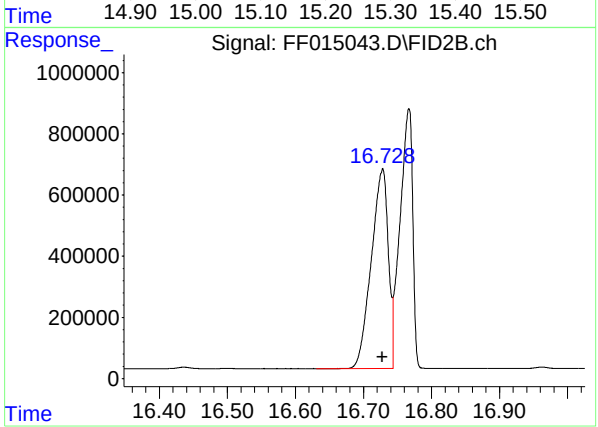
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.167 min
Delta R.T.: 0.000 min
Response: 11099011
Conc: 97.34 ug/ml



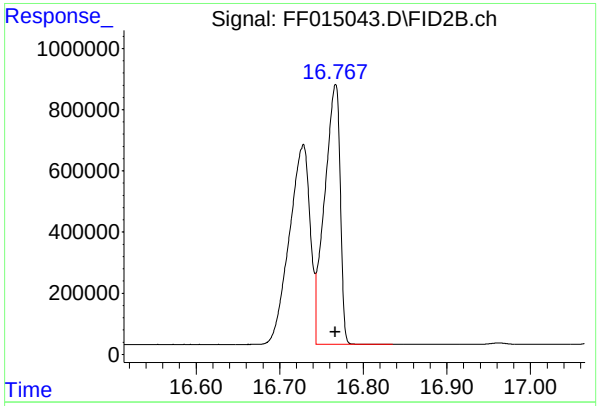
#15 Chrysene (C27.41)

R.T.: 15.215 min
Delta R.T.: 0.000 min
Response: 11068748
Conc: 96.99 ug/ml



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

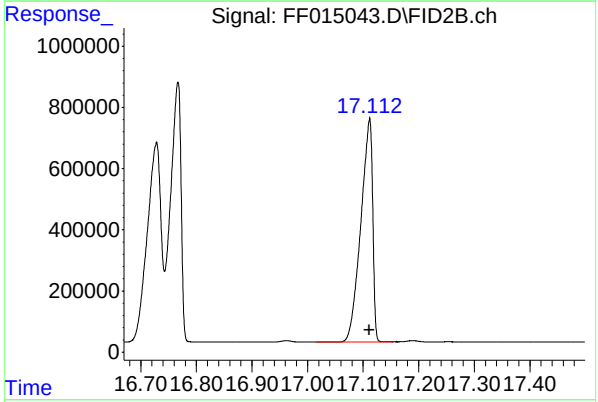
R.T.: 16.728 min
Delta R.T.: 0.000 min
Response: 11328975
Conc: 97.48 ug/ml



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

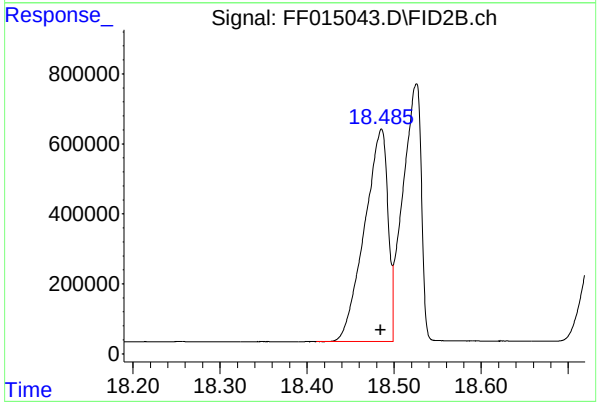
R.T.: 16.766 min
Delta R.T.: 0.000 min
Response: 11022543
Conc: 96.87 ug/ml

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1



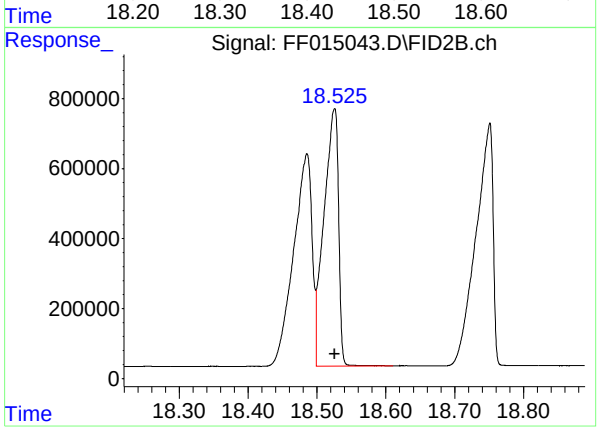
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.111 min
Delta R.T.: 0.000 min
Response: 10798930
Conc: 96.47 ug/ml



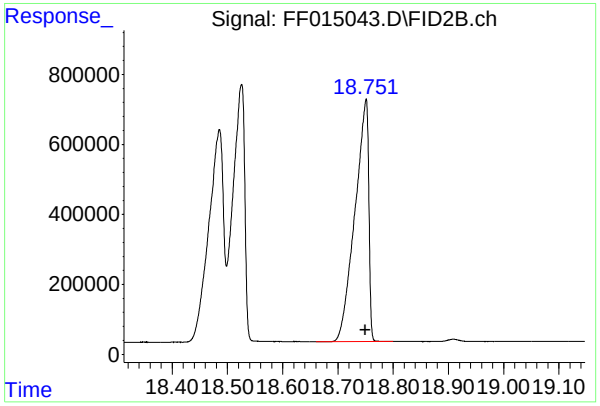
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.485 min
Delta R.T.: 0.000 min
Response: 11304809
Conc: 98.15 ug/ml



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

R.T.: 18.525 min
Delta R.T.: 0.000 min
Response: 10851164
Conc: 94.08 ug/ml



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

R.T.: 18.750 min
Delta R.T.: 0.000 mi
Response: 11963158
Conc: 96.42 ug/m

Instrument :
FID_F
ClientSampleId :
100 PPM AROMATIC HC STD1

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015043.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 17:34
Sample : 100 PPM AROMATIC HC STD1
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.611	4.550	4.677	BB	1284200	12653641	97.55%	5.169%
2	6.277	6.207	6.310	BV	1286353	12970978	100.00%	5.299%
3	7.372	7.324	7.484	BV	1230776	12685111	97.80%	5.182%
4	7.996	7.929	8.069	BV	1124821	11473751	88.46%	4.687%
5	8.673	8.602	8.765	BB	1194733	12831816	98.93%	5.242%
6	8.872	8.797	8.934	BV	741497	7700926	59.37%	3.146%
7	8.973	8.934	9.044	VB	1170876	12527352	96.58%	5.118%
8	9.762	9.709	9.837	BB	1122587	12585943	97.03%	5.142%
9	11.168	11.045	11.201	BV	1041522	12110587	93.37%	4.947%
10	11.244	11.201	11.290	VV	1015365	11843161	91.31%	4.838%
11	11.933	11.877	11.989	BB	1119738	12529781	96.60%	5.119%
12	12.989	12.942	13.047	VB	930228	11780977	90.83%	4.813%
13	13.289	13.215	13.312	BV	903212	11654382	89.85%	4.761%
14	15.167	15.085	15.185	BV	754291	11099011	85.57%	4.534%
15	15.215	15.185	15.304	VB	877088	11068748	85.33%	4.522%
16	16.728	16.630	16.743	BV	647696	11328975	87.34%	4.628%
17	16.766	16.743	16.835	VB	845306	11022543	84.98%	4.503%
18	17.111	17.015	17.154	BV	724064	10798930	83.25%	4.412%
19	18.485	18.410	18.499	BV	608707	11304809	87.15%	4.618%
20	18.525	18.499	18.610	VV	736604	10851164	83.66%	4.433%
21	18.750	18.660	18.800	BBA	678133	11963158	92.23%	4.887%

Sum of corrected areas: 244785745

Aromatic EPH 111524.M Fri Nov 15 02:09:41 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015044.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:02
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 15 01:58:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.992	5765850	49.293 ug/ml
Spiked Amount	50.000		Recovery =	98.59%
6) S	2-Flurobiphenyl (SURR)	8.866	3868085	49.352 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	98.70%
11) S	ortho-Terphenyl (SURR)	11.928	6294210	49.288 ug/ml
Spiked Amount	50.000		Recovery =	98.58%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	6355993	49.147 ug/ml
2) T	Naphthalene (C11.7)	6.274	6484464	49.045 ug/ml
3) T	2-Methylnaphthalene (...	7.368	6373402	49.296 ug/ml
5) T	Acenaphthylene (C15.06)	8.668	6441909	49.308 ug/ml
7) T	Acenaphthene (C15.5)	8.967	6297670	49.314 ug/ml
8) T	Flouorene (C16.55)	9.756	6306624	49.348 ug/ml
9) T	Phenanthrene (C19.36)	11.161	6059037	49.316 ug/ml
10) T	Anthracene (C19.43)	11.237	5940822	49.318 ug/ml
12) T	Fluoranthene (C21.85)	12.982	5898275	49.314 ug/ml
13) T	Pyrene (C20.8)	13.281	5833393	49.274 ug/ml
14) T	Benzo[a]anthracene (C...	15.159	5586128	49.323 ug/ml
15) T	Chrysene (C27.41)	15.204	5577543	49.245 ug/ml
16) T	benzo[b]fluoranthene ...	16.717	5647519	49.055 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.753	5603055	49.249 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.099	5462604	49.192 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.470	5577932	48.942 ug/ml
20) T	Dibenz[a,h]anthracene...	18.510	5689684	49.173 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.730	6046114	49.145 ug/ml

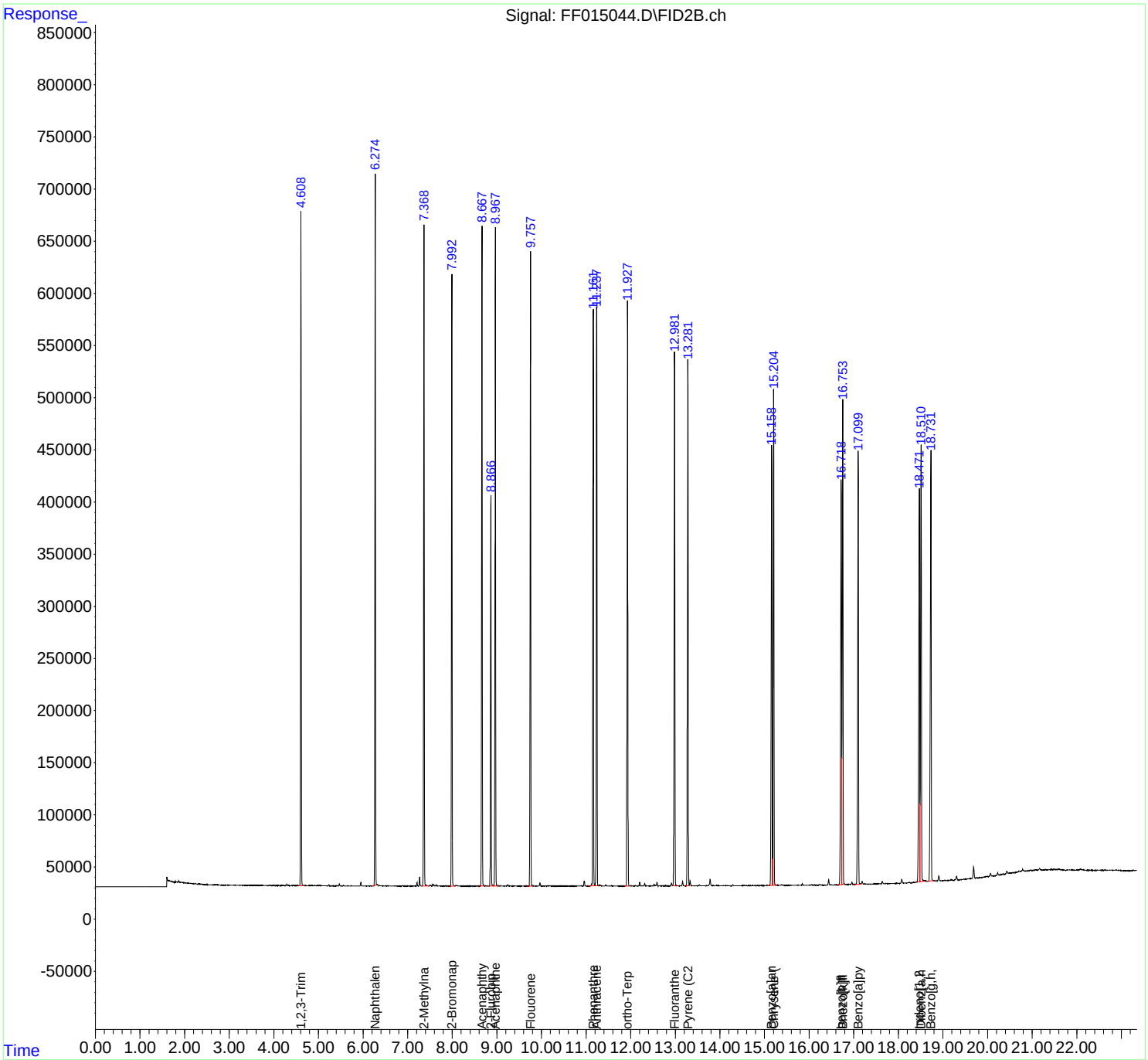
(f)=RT Delta > 1/2 Window (m)=manual int.

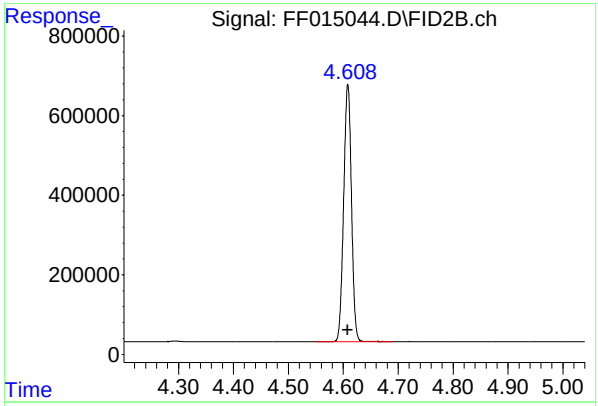
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015044.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:02
Operator : YP\AJ
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

Integration File: autoint1.e
Quant Time: Nov 15 01:58:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

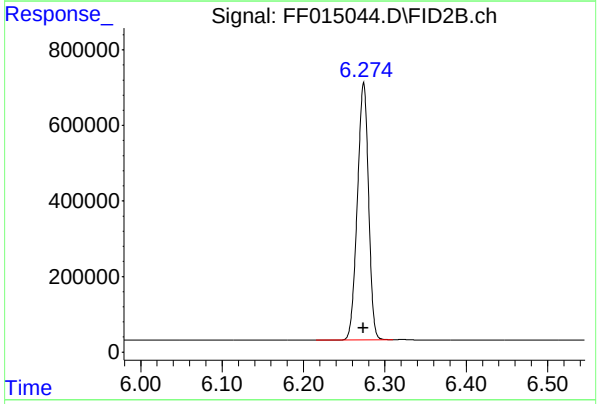




#1 1,2,3-Trimethylbenzene (C10.1)

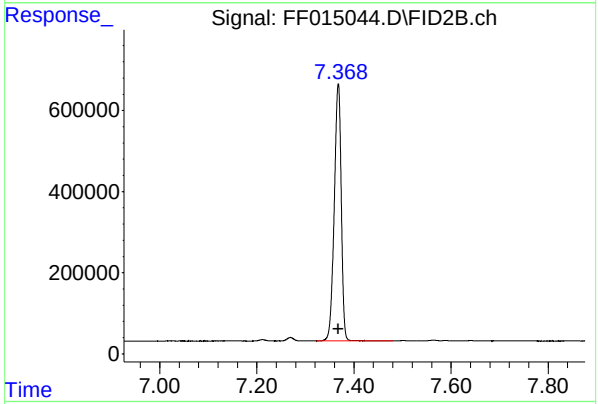
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 6355993
Conc: 49.15 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



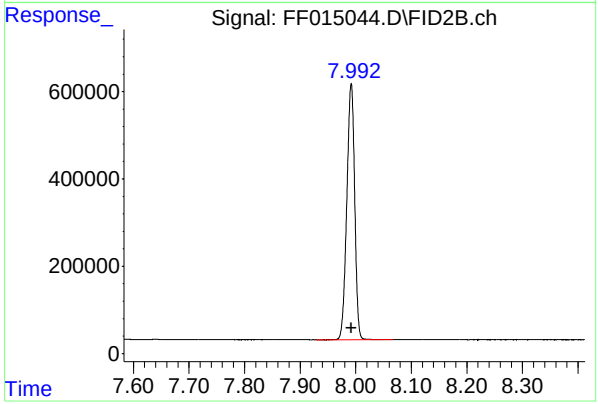
#2 Naphthalene (C11.7)

R.T.: 6.274 min
Delta R.T.: 0.000 min
Response: 6484464
Conc: 49.05 ug/ml



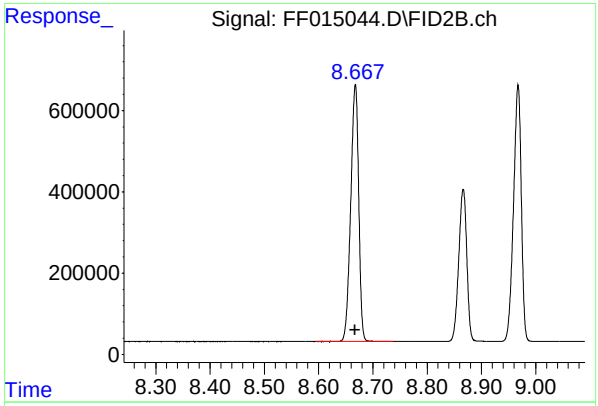
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.368 min
Delta R.T.: 0.000 min
Response: 6373402
Conc: 49.30 ug/ml



#4 2-Bromonaphthalene (SURR)

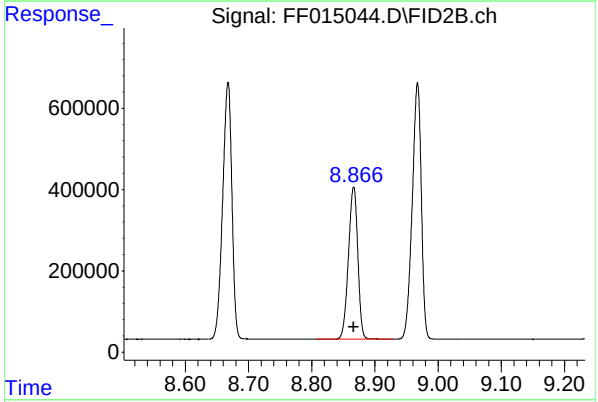
R.T.: 7.992 min
Delta R.T.: 0.000 min
Response: 5765850
Conc: 49.29 ug/ml



#5 Acenaphthylene (C15.06)

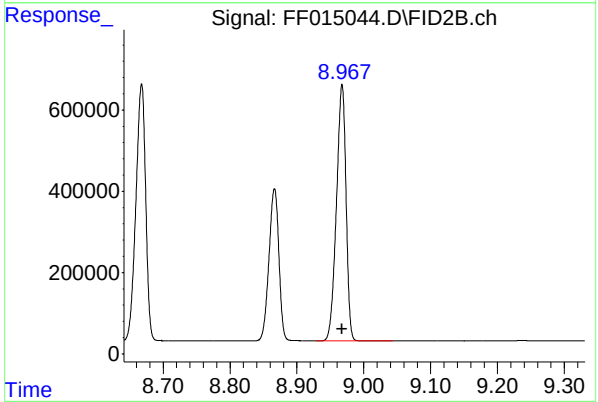
R.T.: 8.668 min
Delta R.T.: 0.000 min
Response: 6441909
Conc: 49.31 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



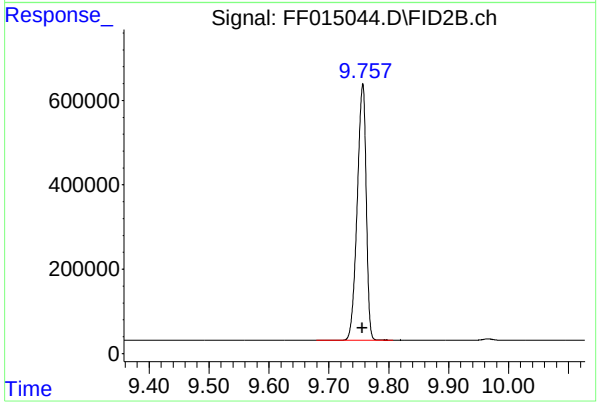
#6 2-Flurobiphenyl (SURR)

R.T.: 8.866 min
Delta R.T.: 0.000 min
Response: 3868085
Conc: 49.35 ug/ml



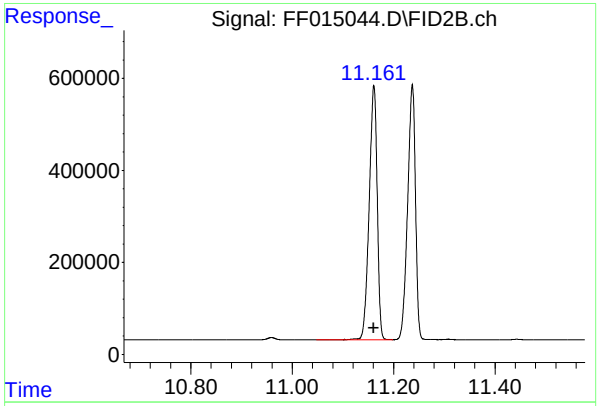
#7 Acenaphthene (C15.5)

R.T.: 8.967 min
Delta R.T.: 0.000 min
Response: 6297670
Conc: 49.31 ug/ml



#8 Flouorene (C16.55)

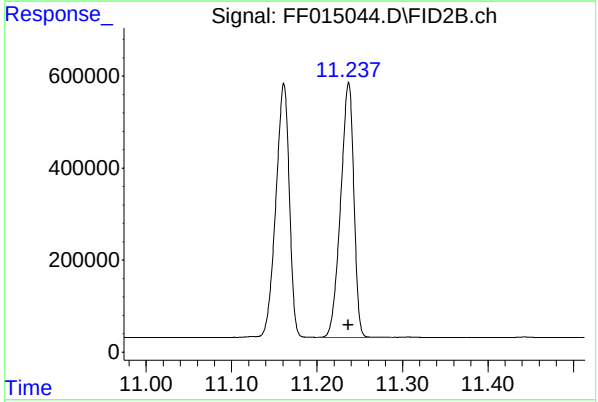
R.T.: 9.756 min
Delta R.T.: 0.000 min
Response: 6306624
Conc: 49.35 ug/ml



#9 Phenanthrene (C19.36)

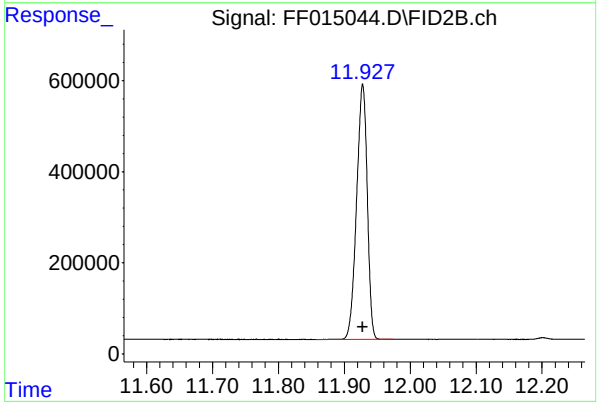
R.T.: 11.161 min
Delta R.T.: 0.000 min
Response: 6059037
Conc: 49.32 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



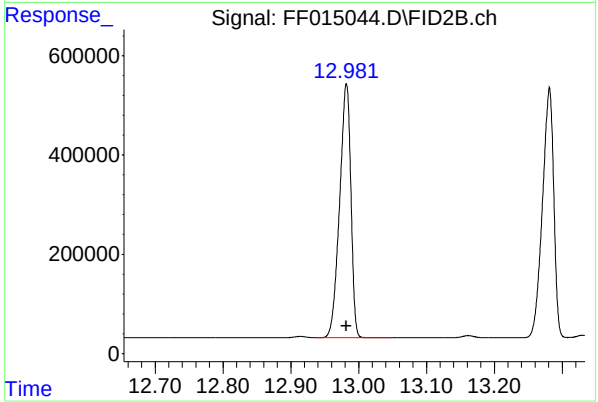
#10 Anthracene (C19.43)

R.T.: 11.237 min
Delta R.T.: 0.000 min
Response: 5940822
Conc: 49.32 ug/ml



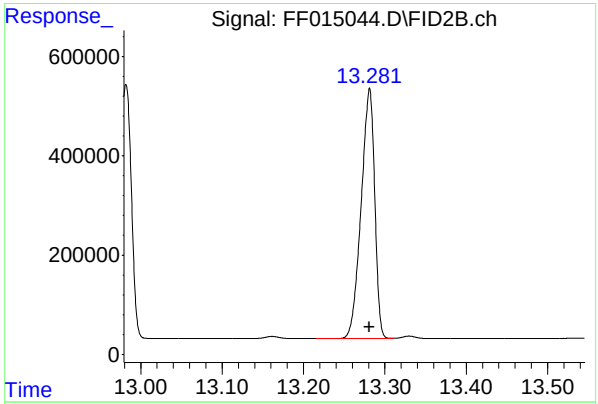
#11 ortho-Terphenyl (SURR)

R.T.: 11.928 min
Delta R.T.: 0.000 min
Response: 6294210
Conc: 49.29 ug/ml



#12 Fluoranthene (C21.85)

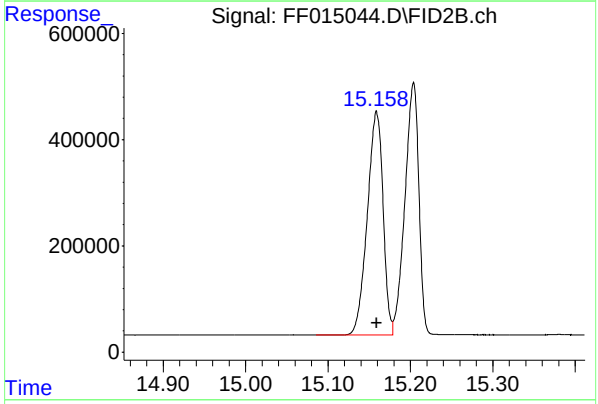
R.T.: 12.982 min
Delta R.T.: 0.000 min
Response: 5898275
Conc: 49.31 ug/ml



#13 Pyrene (C20.8)

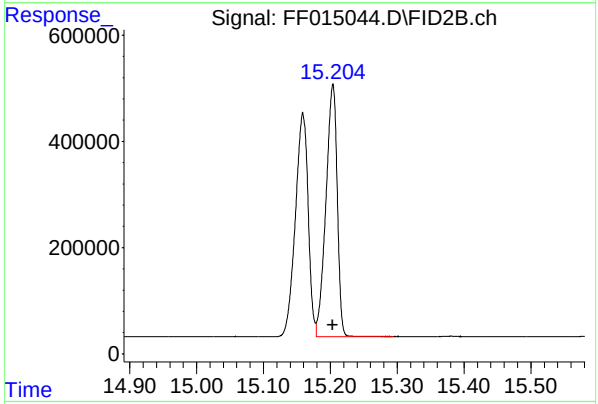
R.T.: 13.281 min
Delta R.T.: 0.000 min
Response: 5833393
Conc: 49.27 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



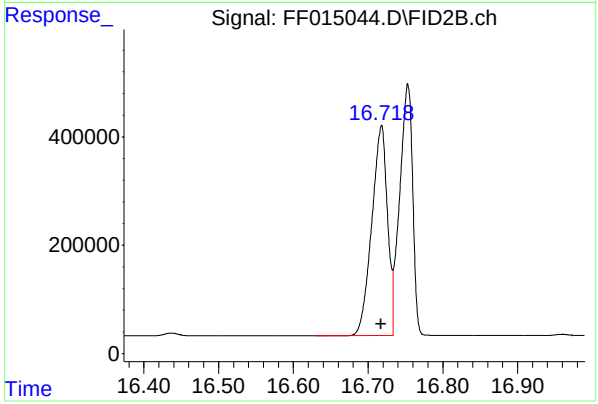
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.159 min
Delta R.T.: 0.000 min
Response: 5586128
Conc: 49.32 ug/ml



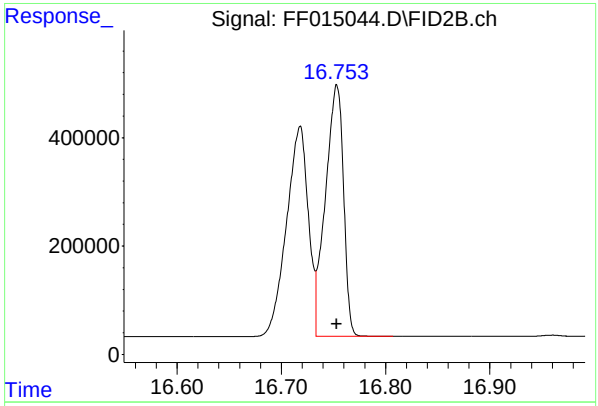
#15 Chrysene (C27.41)

R.T.: 15.204 min
Delta R.T.: 0.000 min
Response: 5577543
Conc: 49.24 ug/ml



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

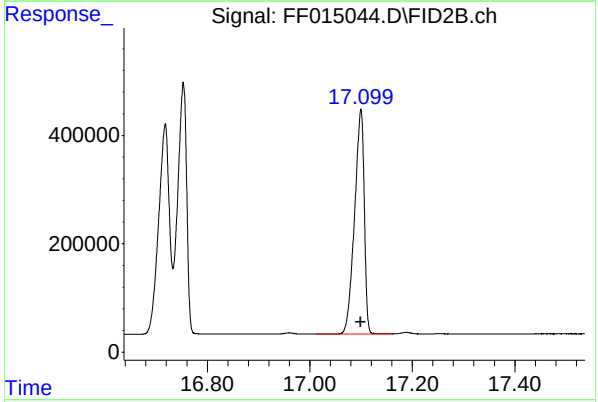
R.T.: 16.717 min
Delta R.T.: 0.000 min
Response: 5647519
Conc: 49.05 ug/ml



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

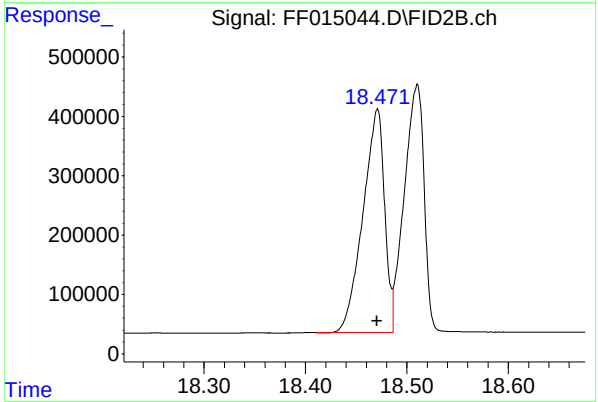
R.T.: 16.753 min
Delta R.T.: 0.000 min
Response: 5603055
Conc: 49.25 ug/ml

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2



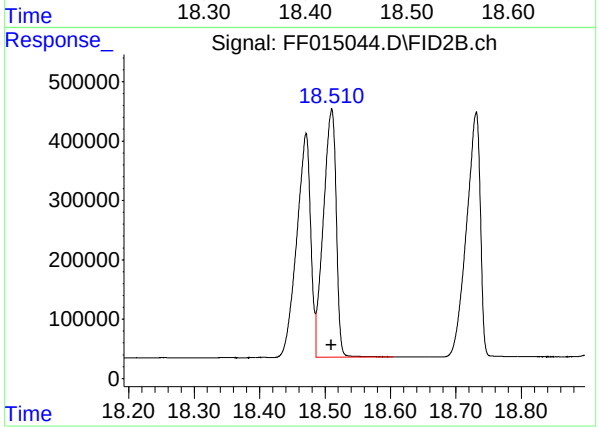
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.099 min
Delta R.T.: 0.000 min
Response: 5462604
Conc: 49.19 ug/ml



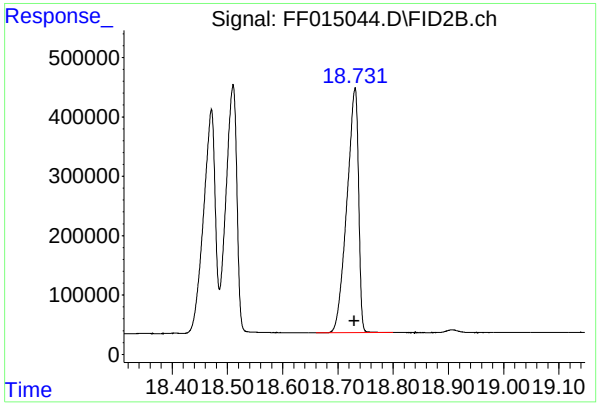
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.470 min
Delta R.T.: 0.000 min
Response: 5577932
Conc: 48.94 ug/ml



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

R.T.: 18.510 min
Delta R.T.: 0.000 min
Response: 5689684
Conc: 49.17 ug/ml



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

R.T.: 18.730 min
Delta R.T.: 0.000 mi
Response: 6046114
Conc: 49.15 ug/m

Instrument :
FID_F
ClientSampleId :
50 PPM AROMATIC HC STD2

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015044.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:02
Sample : 50 PPM AROMATIC HC STD2
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.550	4.690	BB	646640	6355993	98.02%	5.163%
2	6.274	6.215	6.310	BV	681760	6484464	100.00%	5.267%
3	7.368	7.322	7.480	BB	634040	6373402	98.29%	5.177%
4	7.992	7.929	8.067	BV	587856	5765850	88.92%	4.683%
5	8.668	8.595	8.737	BB	631948	6441909	99.34%	5.233%
6	8.866	8.807	8.929	BV	375889	3868085	59.65%	3.142%
7	8.967	8.929	9.044	VB	631421	6297670	97.12%	5.115%
8	9.756	9.679	9.807	BB	602459	6306624	97.26%	5.123%
9	11.161	11.047	11.199	BV	552931	6059037	93.44%	4.922%
10	11.237	11.199	11.289	VV	555809	5940822	91.62%	4.826%
11	11.928	11.857	11.974	BB	560091	6294210	97.07%	5.113%
12	12.982	12.937	13.050	PB	512884	5898275	90.96%	4.791%
13	13.281	13.215	13.310	BV	502442	5833393	89.96%	4.738%
14	15.159	15.085	15.179	BV	421346	5586128	86.15%	4.537%
15	15.204	15.179	15.294	VB	476258	5577543	86.01%	4.531%
16	16.717	16.630	16.733	BV	386343	5647519	87.09%	4.587%
17	16.753	16.733	16.807	VB	462660	5603055	86.41%	4.551%
18	17.099	17.012	17.162	BV	413089	5462604	84.24%	4.437%
19	18.470	18.410	18.486	BV	376224	5577932	86.02%	4.531%
20	18.510	18.486	18.604	VB	420291	5689684	87.74%	4.622%
21	18.730	18.660	18.800	BBA	410563	6046114	93.24%	4.911%

Sum of corrected areas: 123110313

Aromatic EPH 111524.M Fri Nov 15 02:10:42 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015045.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:30
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 15 01:54:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.990	2417165	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
6) S	2-Flurobiphenyl (SURR)	8.864	1615201	20.000 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.00%
11) S	ortho-Terphenyl (SURR)	11.925	2638586	20.000 ug/ml
Spiked Amount	50.000		Recovery =	40.00%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	2686457	20.000 ug/ml
2) T	Naphthalene (C11.7)	6.272	2744877	20.000 ug/ml
3) T	2-Methylnaphthalene (...	7.365	2670985	20.000 ug/ml
5) T	Acenaphthylene (C15.06)	8.665	2695701	20.000 ug/ml
7) T	Acenaphthene (C15.5)	8.964	2637860	20.000 ug/ml
8) T	Flouorene (C16.55)	9.752	2628156	20.000 ug/ml
9) T	Phenanthrene (C19.36)	11.157	2525902	20.000 ug/ml
10) T	Anthracene (C19.43)	11.232	2482553	20.000 ug/ml
12) T	Fluoranthene (C21.85)	12.976	2460902	20.000 ug/ml
13) T	Pyrene (C20.8)	13.275	2438991	20.000 ug/ml
14) T	Benzo[a]anthracene (C...	15.152	2341059	20.000 ug/ml
15) T	Chrysene (C27.41)	15.195	2350968	20.000 ug/ml
16) T	benzo[b]fluoranthene ...	16.709	2382838	20.000 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.742	2380446	20.000 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.089	2318007	20.000 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.460	2346148	20.000 ug/ml
20) T	Dibenz[a,h]anthracene...	18.500	2496360	20.000 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.717	2570441	20.000 ug/ml

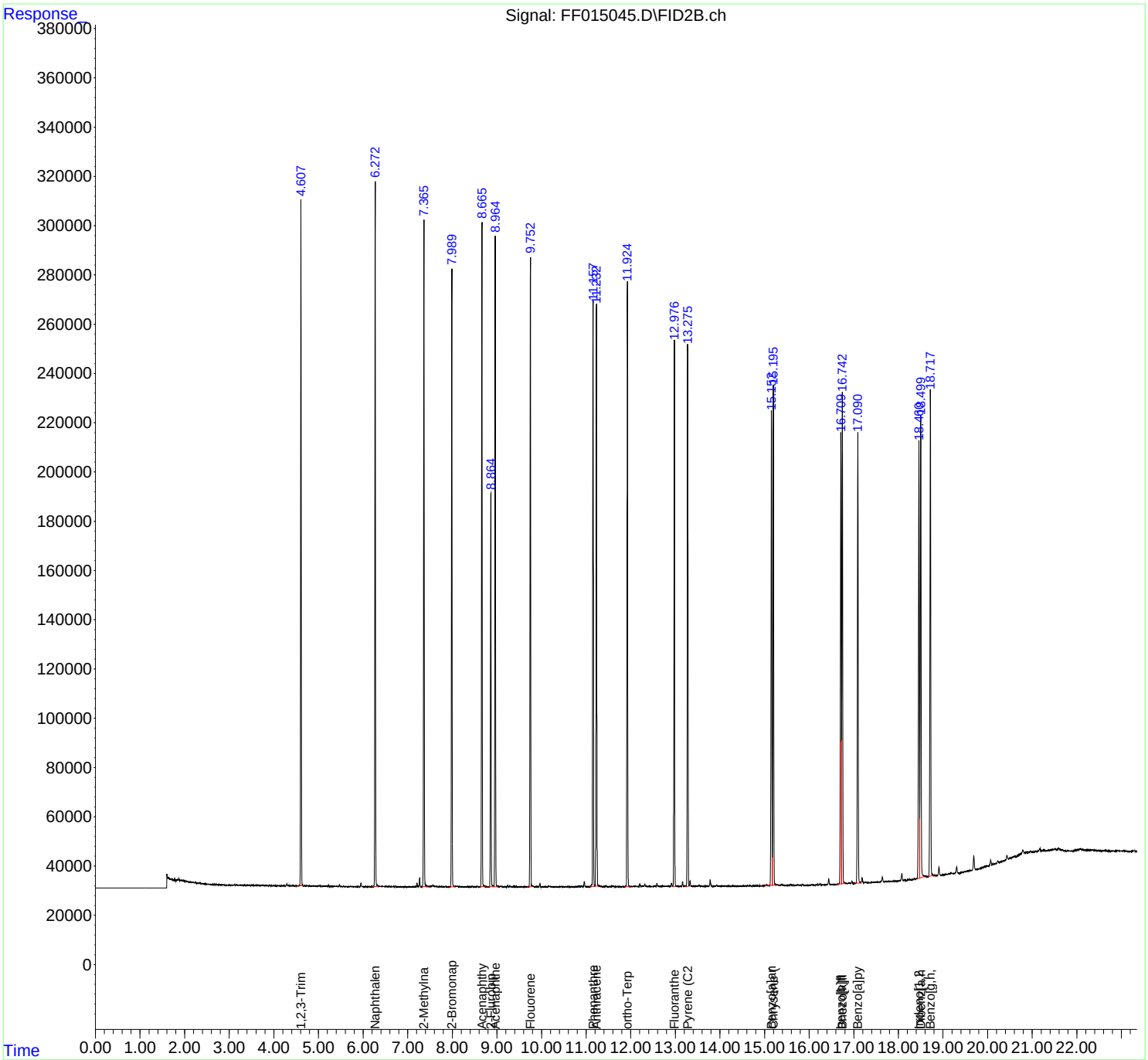
(f)=RT Delta > 1/2 Window (m)=manual int.

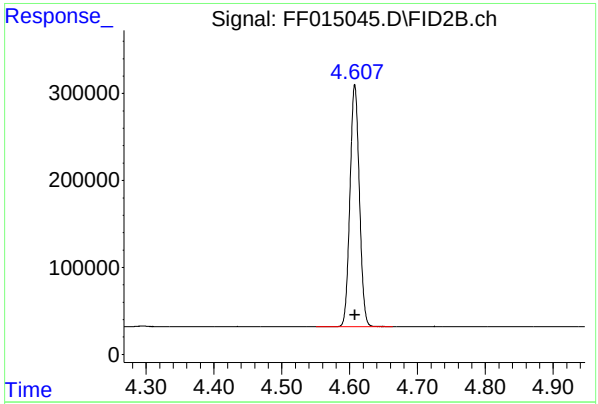
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015045.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:30
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3

Integration File: autoint1.e
Quant Time: Nov 15 01:54:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

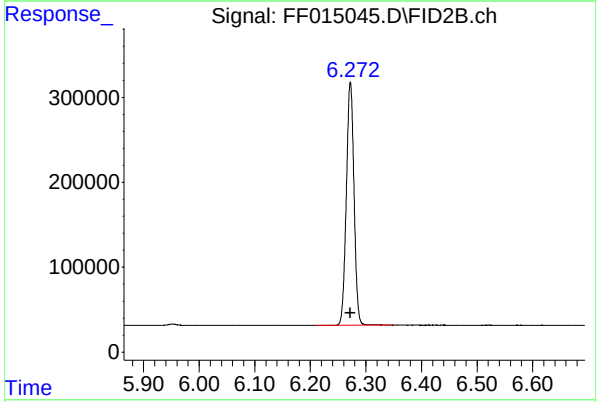




#1 1,2,3-Trimethylbenzene (C10.1)

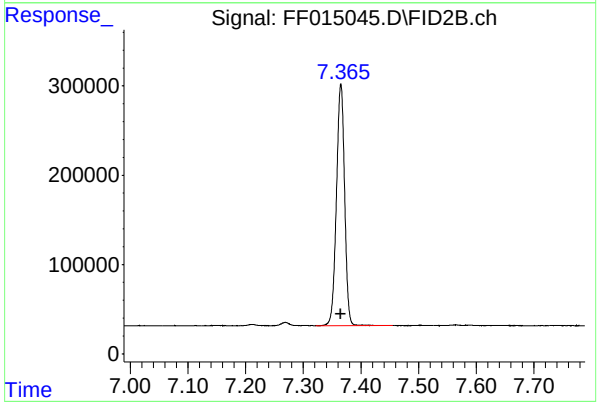
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 2686457
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



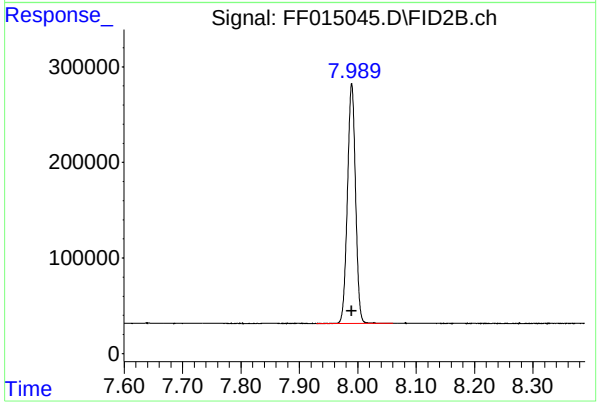
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 2744877
Conc: 20.00 ug/ml



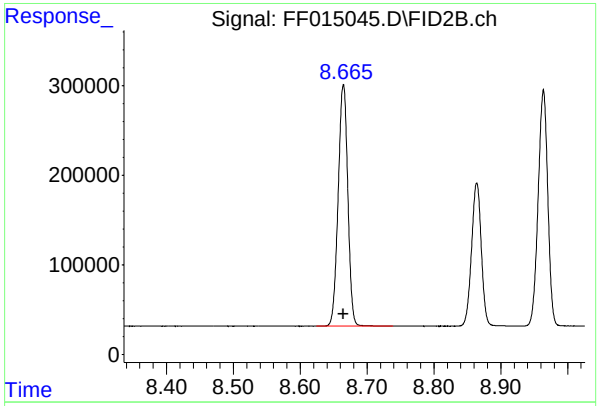
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 2670985
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

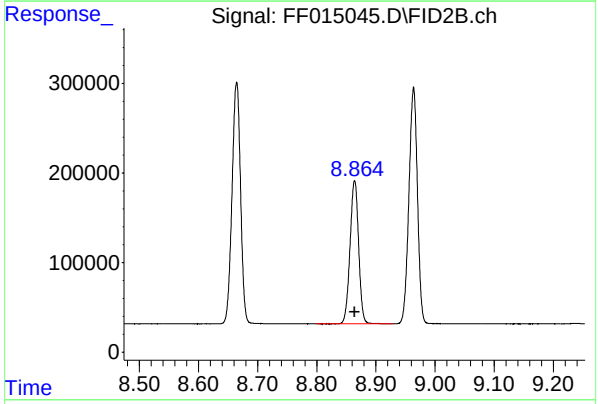
R.T.: 7.990 min
Delta R.T.: 0.000 min
Response: 2417165
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

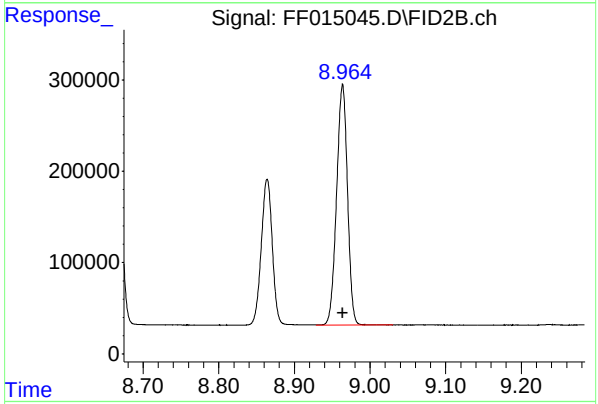
R.T.: 8.665 min
Delta R.T.: 0.000 min
Response: 2695701
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



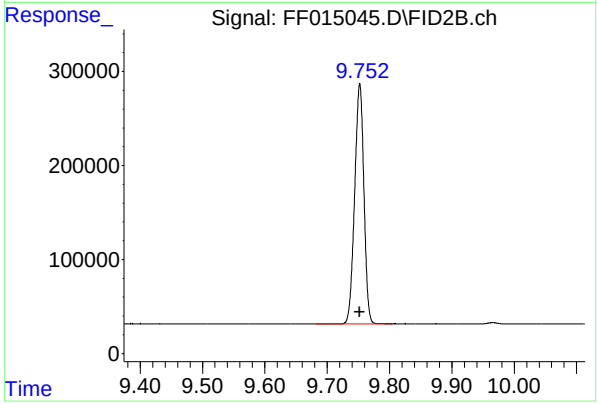
#6 2-Flurobiphenyl (SURR)

R.T.: 8.864 min
Delta R.T.: 0.000 min
Response: 1615201
Conc: 20.00 ug/ml



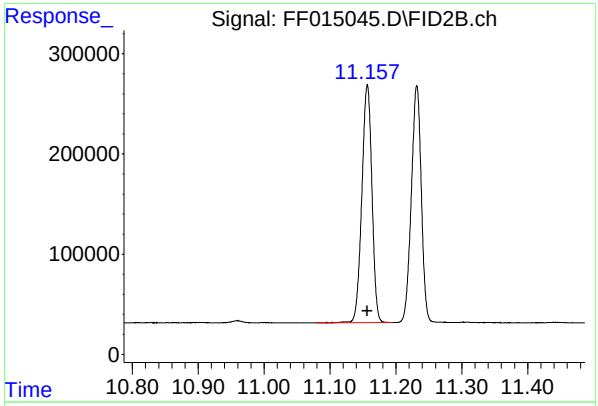
#7 Acenaphthene (C15.5)

R.T.: 8.964 min
Delta R.T.: 0.000 min
Response: 2637860
Conc: 20.00 ug/ml



#8 Flouorene (C16.55)

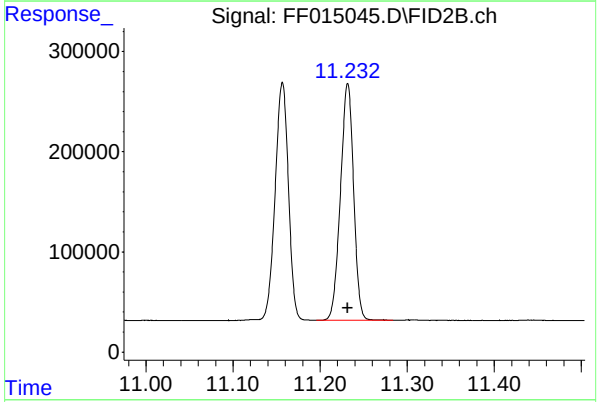
R.T.: 9.752 min
Delta R.T.: 0.000 min
Response: 2628156
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

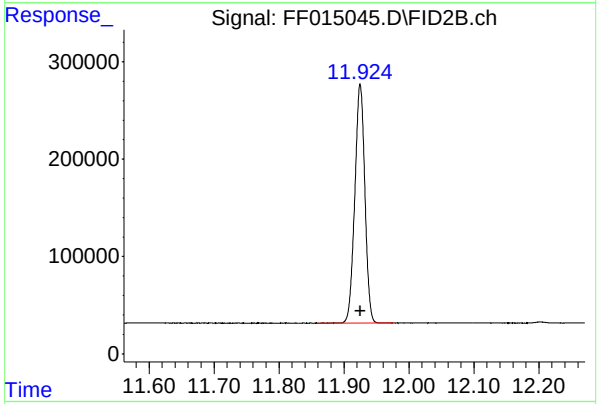
R.T.: 11.157 min
Delta R.T.: 0.000 min
Response: 2525902
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



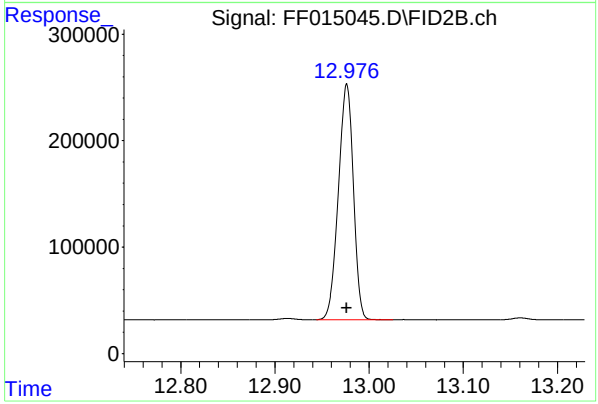
#10 Anthracene (C19.43)

R.T.: 11.232 min
Delta R.T.: 0.000 min
Response: 2482553
Conc: 20.00 ug/ml



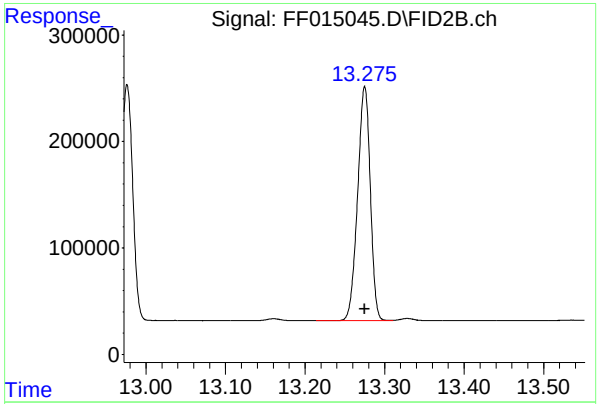
#11 ortho-Terphenyl (SURR)

R.T.: 11.925 min
Delta R.T.: 0.000 min
Response: 2638586
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

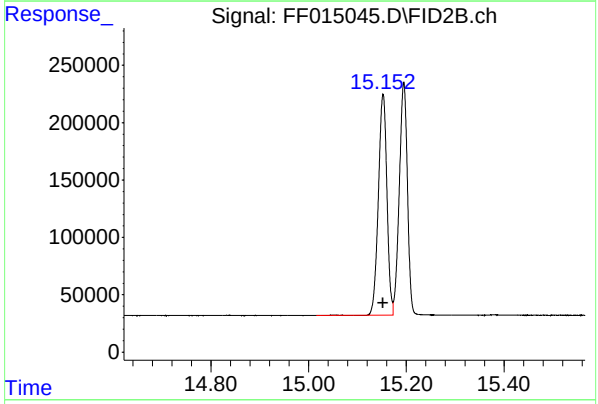
R.T.: 12.976 min
Delta R.T.: 0.000 min
Response: 2460902
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

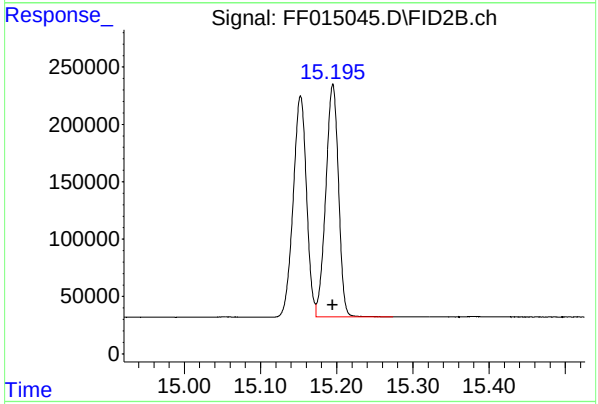
R.T.: 13.275 min
Delta R.T.: 0.000 min
Response: 2438991
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



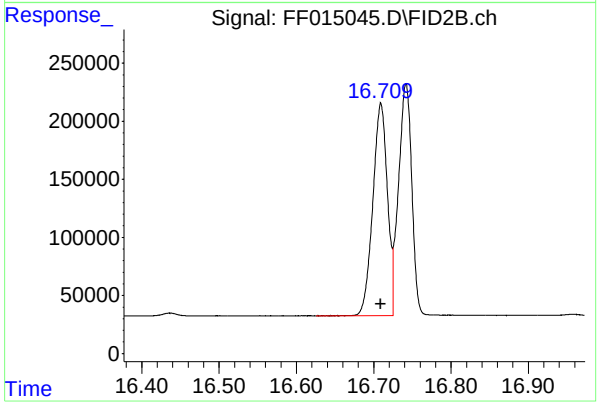
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.152 min
Delta R.T.: 0.000 min
Response: 2341059
Conc: 20.00 ug/ml



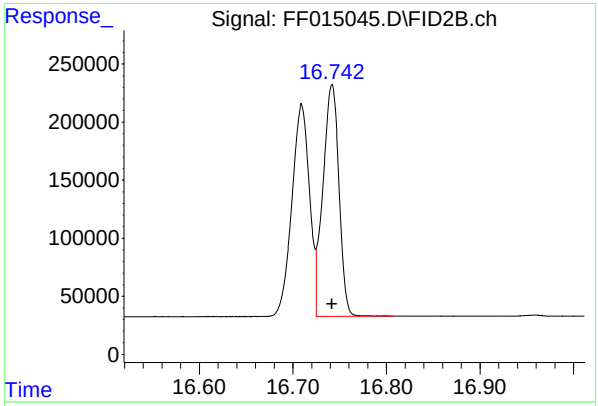
#15 Chrysene (C27.41)

R.T.: 15.195 min
Delta R.T.: 0.000 min
Response: 2350968
Conc: 20.00 ug/ml



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

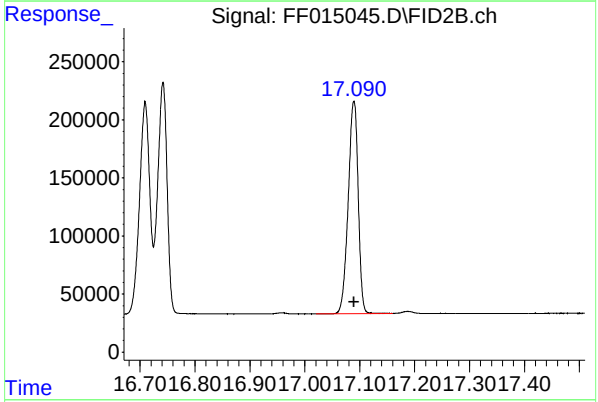
R.T.: 16.709 min
Delta R.T.: 0.000 min
Response: 2382838
Conc: 20.00 ug/ml



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

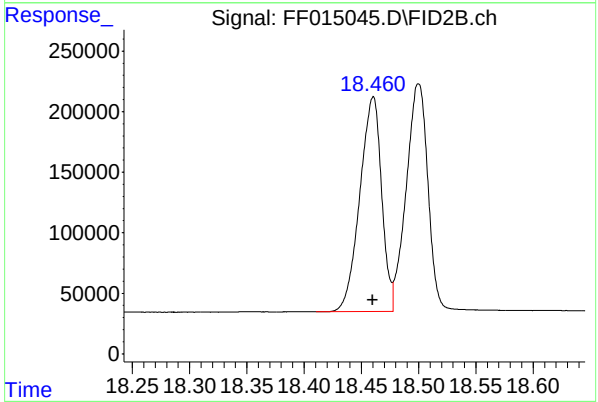
R.T.: 16.742 min
Delta R.T.: 0.000 min
Response: 2380446
Conc: 20.00 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD3



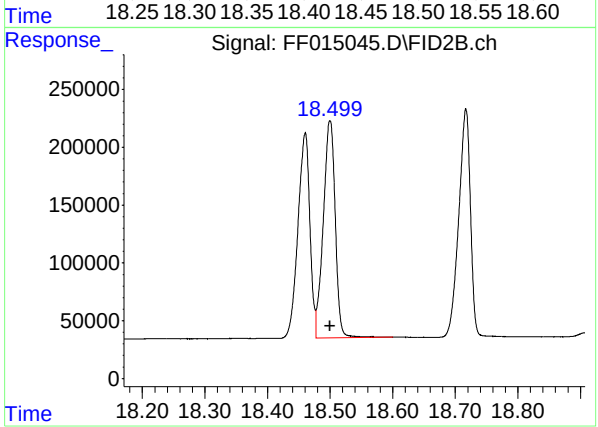
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.089 min
Delta R.T.: 0.000 min
Response: 2318007
Conc: 20.00 ug/ml



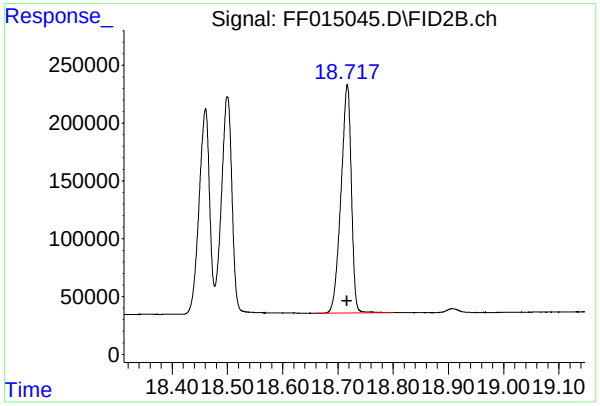
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.460 min
Delta R.T.: 0.000 min
Response: 2346148
Conc: 20.00 ug/ml



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

R.T.: 18.500 min
Delta R.T.: 0.000 min
Response: 2496360
Conc: 20.00 ug/ml



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

R.T.: 18.717 min
Delta R.T.: 0.000 mi
Response: 2570441
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\FF111524AR\
Data File : FF015045.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:30
Sample : 20 PPM AROMATIC HC STD3
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.550	4.664	BB	278083	2686457	97.87%	5.183%
2	6.272	6.210	6.349	BB	286433	2744877	100.00%	5.296%
3	7.365	7.322	7.455	BB	271004	2670985	97.31%	5.153%
4	7.990	7.929	8.060	BB	250828	2417165	88.06%	4.664%
5	8.665	8.624	8.739	BB	269367	2695701	98.21%	5.201%
6	8.864	8.799	8.929	BV	159884	1615201	58.84%	3.116%
7	8.964	8.929	9.030	VB	264030	2637860	96.10%	5.089%
8	9.752	9.682	9.805	BB	255350	2628156	95.75%	5.071%
9	11.157	11.079	11.195	BV	237971	2525902	92.02%	4.873%
10	11.232	11.195	11.284	VV	236771	2482553	90.44%	4.790%
11	11.925	11.857	11.975	BB	245351	2638586	96.13%	5.091%
12	12.976	12.944	13.025	PB	221846	2460902	89.65%	4.748%
13	13.275	13.214	13.310	BV	220371	2438991	88.86%	4.706%
14	15.152	15.015	15.173	BV	192575	2341059	85.29%	4.517%
15	15.195	15.173	15.274	VB	203477	2350968	85.65%	4.536%
16	16.709	16.625	16.725	BV	183003	2382838	86.81%	4.597%
17	16.742	16.725	16.807	VB	199893	2380446	86.72%	4.593%
18	17.089	17.020	17.160	BV	183000	2318007	84.45%	4.472%
19	18.460	18.410	18.478	BV	177811	2346148	85.47%	4.527%
20	18.500	18.478	18.600	VB	187947	2496360	90.95%	4.816%
21	18.717	18.660	18.800	BBA	197873	2570441	93.65%	4.959%
			Sum of corrected areas:			51829604		

Aromatic EPH 111524.M Fri Nov 15 02:11:15 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015046.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:58
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 15 02:00:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.989	1273061	10.648 ug/ml
Spiked Amount	50.000		Recovery =	21.30%
6) S	2-Flurobiphenyl (SURR)	8.863	850976	10.630 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	21.26%
11) S	ortho-Terphenyl (SURR)	11.924	1402058	10.717 ug/ml
Spiked Amount	50.000		Recovery =	21.43%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	1417126	10.702 ug/ml
2) T	Naphthalene (C11.7)	6.272	1445570	10.684 ug/ml
3) T	2-Methylnaphthalene (...	7.364	1404290	10.633 ug/ml
5) T	Acenaphthylene (C15.06)	8.664	1423984	10.660 ug/ml
7) T	Acenaphthene (C15.5)	8.962	1396444	10.685 ug/ml
8) T	Flouorene (C16.55)	9.751	1389870	10.642 ug/ml
9) T	Phenanthrene (C19.36)	11.156	1335378	10.638 ug/ml
10) T	Anthracene (C19.43)	11.230	1313361	10.662 ug/ml
12) T	Fluoranthene (C21.85)	12.974	1299695	10.636 ug/ml
13) T	Pyrene (C20.8)	13.273	1282082	10.610 ug/ml
14) T	Benzo[a]anthracene (C...	15.150	1232832	10.650 ug/ml
15) T	Chrysene (C27.41)	15.192	1246385	10.735 ug/ml
16) T	benzo[b]fluoranthene ...	16.706	1255307	10.663 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.737	1262152	10.799 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.087	1212692	10.675 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.456	1218869	10.512 ug/ml
20) T	Dibenz[a,h]anthracene...	18.496	1363538	11.281 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.711	1353291	10.732 ug/ml

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

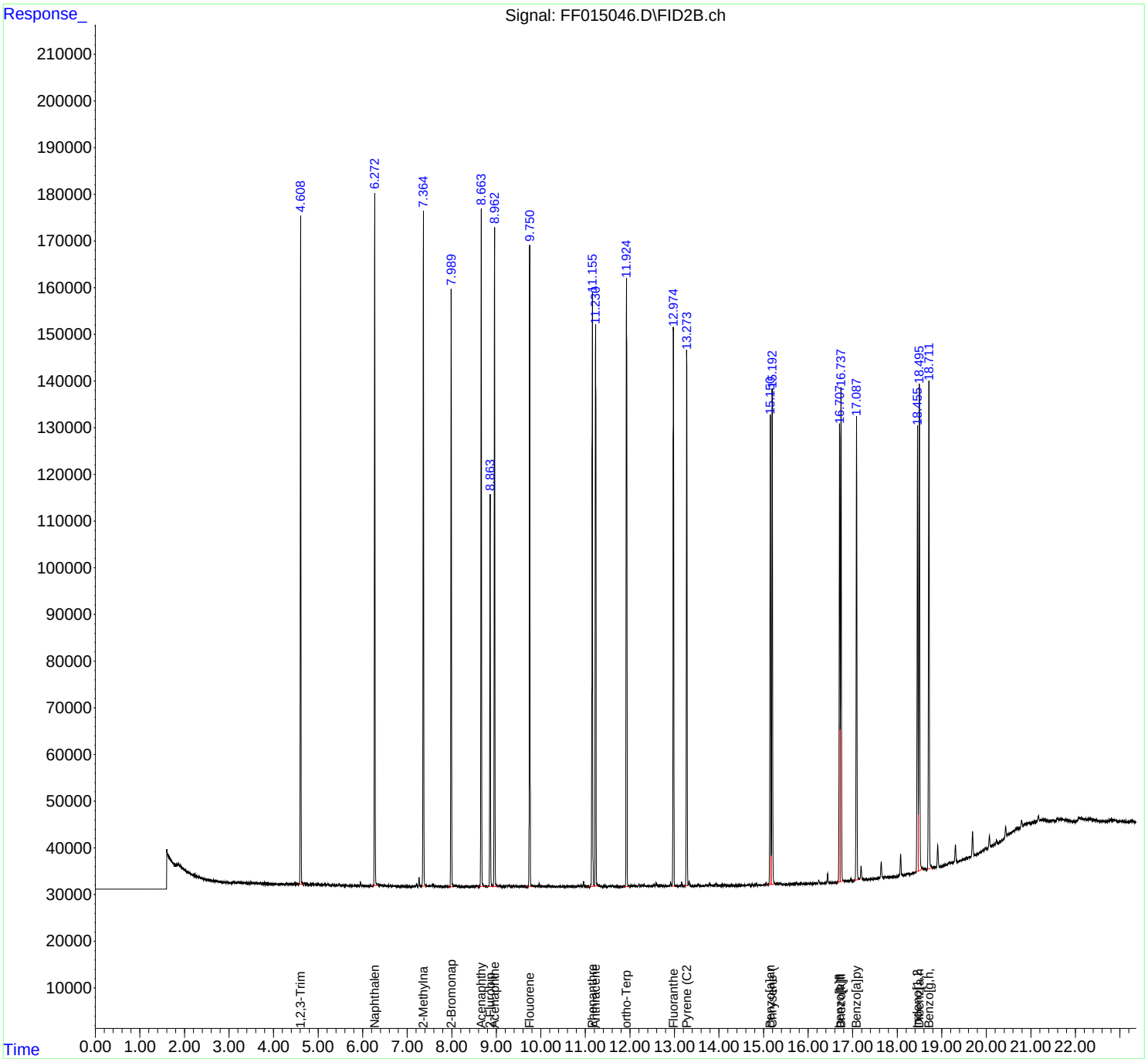
Quantitation Report (QT Reviewed)

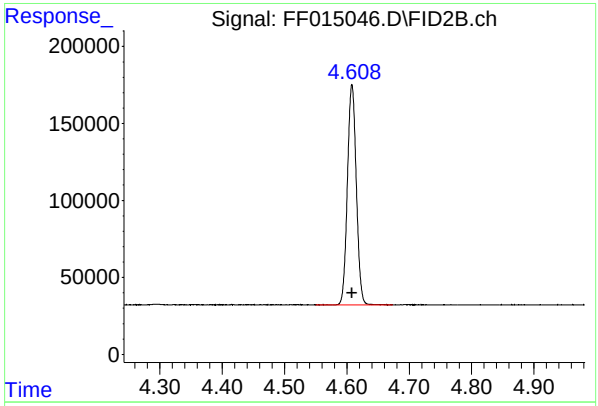
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015046.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:58
Operator : YP\AJ
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

Integration File: autoint1.e
Quant Time: Nov 15 02:00:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

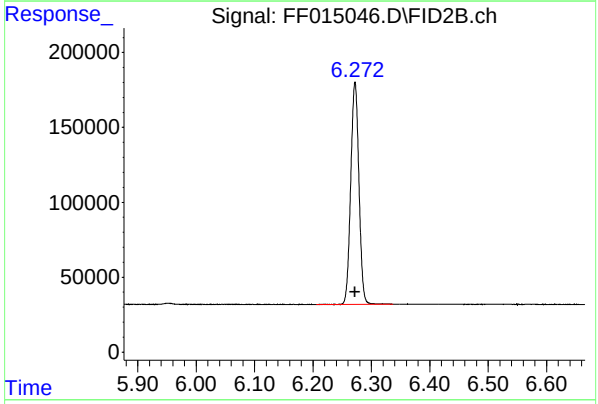




#1 1,2,3-Trimethylbenzene (C10.1)

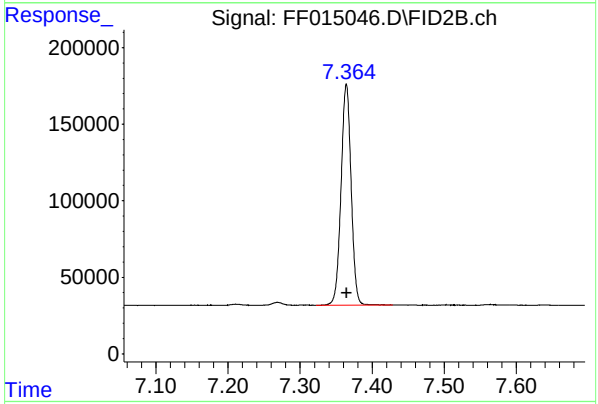
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 1417126
Conc: 10.70 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



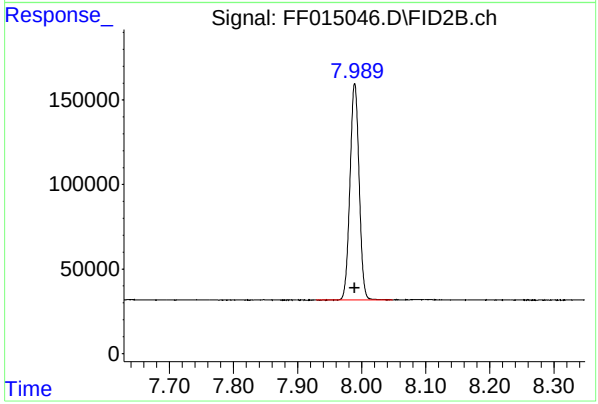
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 1445570
Conc: 10.68 ug/ml



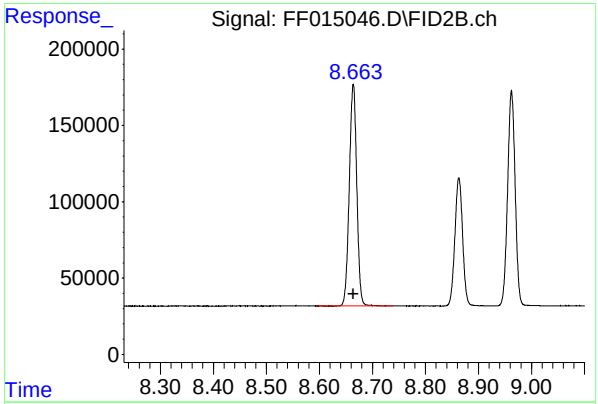
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.364 min
Delta R.T.: 0.000 min
Response: 1404290
Conc: 10.63 ug/ml



#4 2-Bromonaphthalene (SURR)

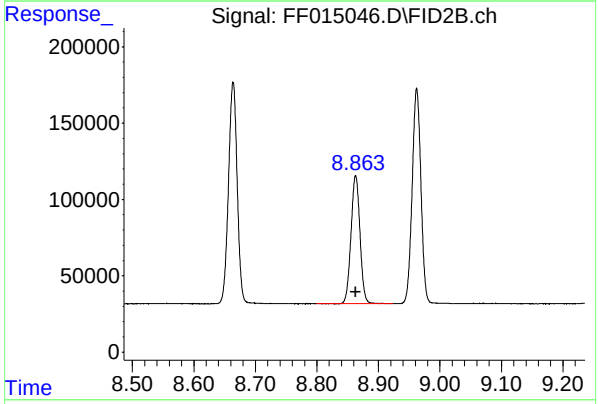
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 1273061
Conc: 10.65 ug/ml



#5 Acenaphthylene (C15.06)

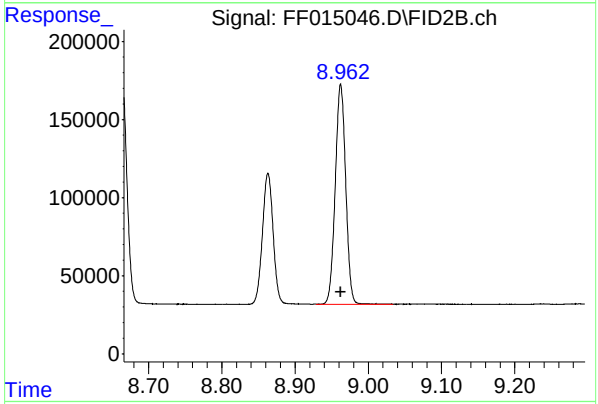
R.T.: 8.664 min
Delta R.T.: 0.000 min
Response: 1423984
Conc: 10.66 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



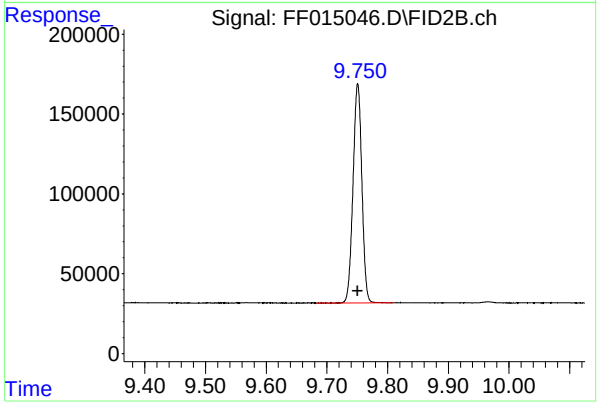
#6 2-Flurobiphenyl (SURR)

R.T.: 8.863 min
Delta R.T.: 0.000 min
Response: 850976
Conc: 10.63 ug/ml



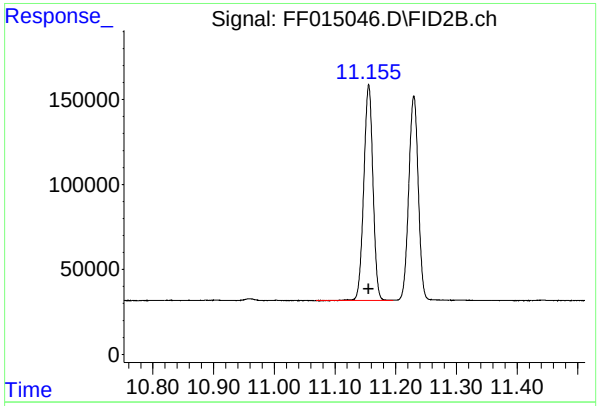
#7 Acenaphthene (C15.5)

R.T.: 8.962 min
Delta R.T.: 0.000 min
Response: 1396444
Conc: 10.69 ug/ml



#8 Flouorene (C16.55)

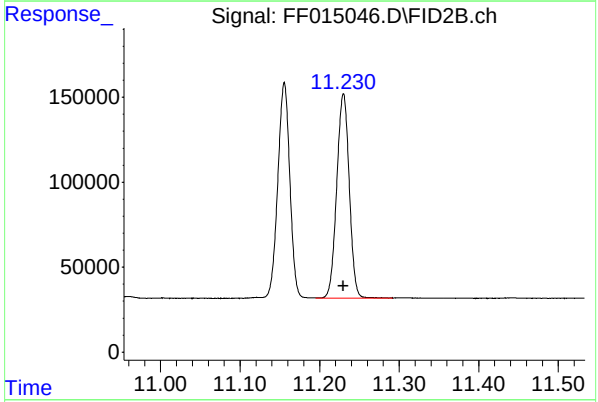
R.T.: 9.751 min
Delta R.T.: 0.000 min
Response: 1389870
Conc: 10.64 ug/ml



#9 Phenanthrene (C19.36)

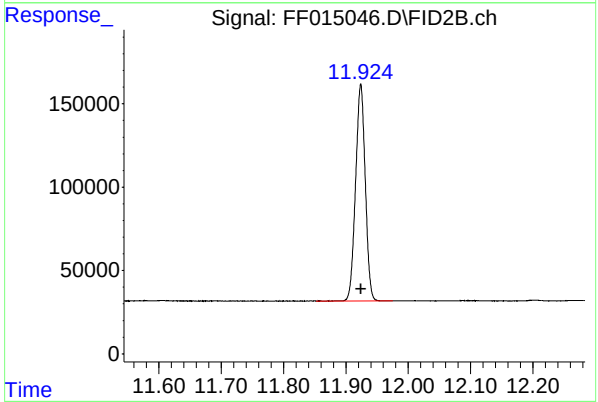
R.T.: 11.156 min
Delta R.T.: 0.000 min
Response: 1335378
Conc: 10.64 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



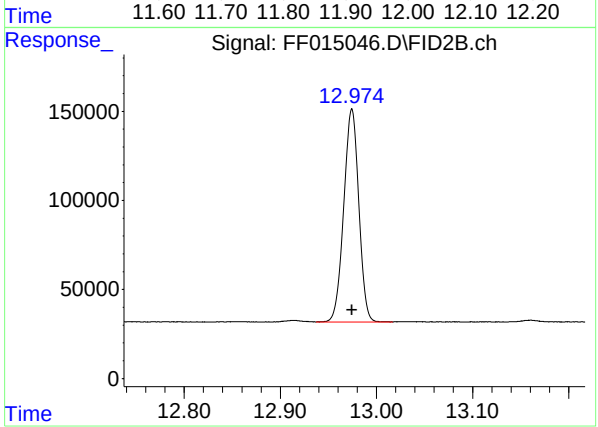
#10 Anthracene (C19.43)

R.T.: 11.230 min
Delta R.T.: 0.000 min
Response: 1313361
Conc: 10.66 ug/ml



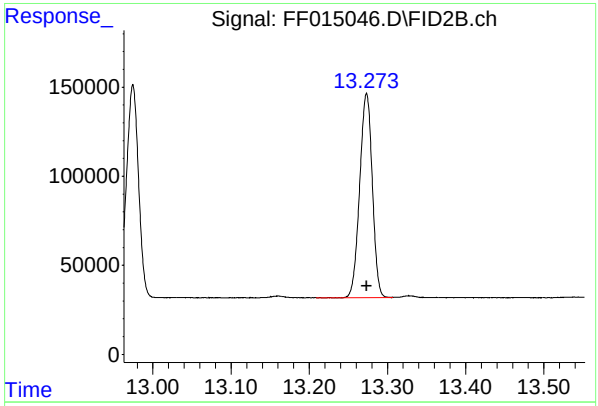
#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.000 min
Response: 1402058
Conc: 10.72 ug/ml



#12 Fluoranthene (C21.85)

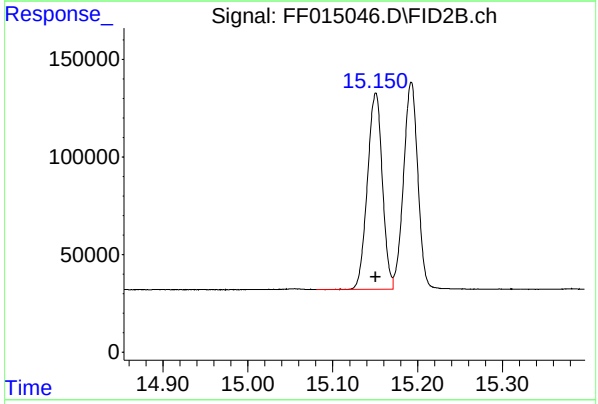
R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 1299695
Conc: 10.64 ug/ml



#13 Pyrene (C20.8)

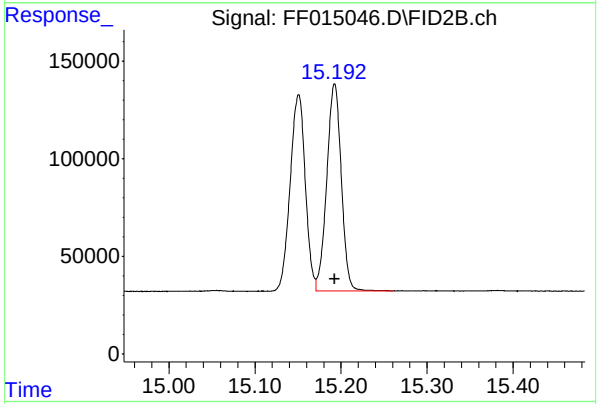
R.T.: 13.273 min
Delta R.T.: 0.000 min
Response: 1282082
Conc: 10.61 ug/ml

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



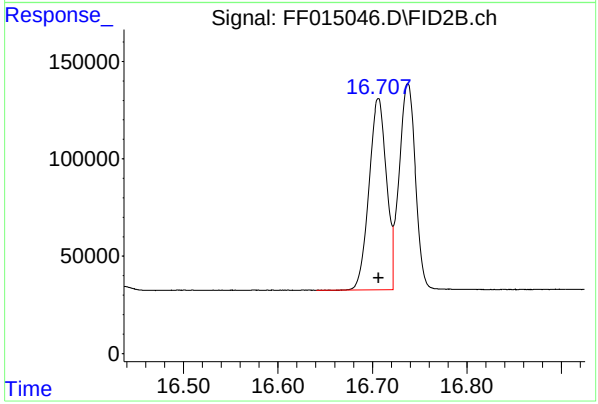
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.150 min
Delta R.T.: 0.000 min
Response: 1232832
Conc: 10.65 ug/ml



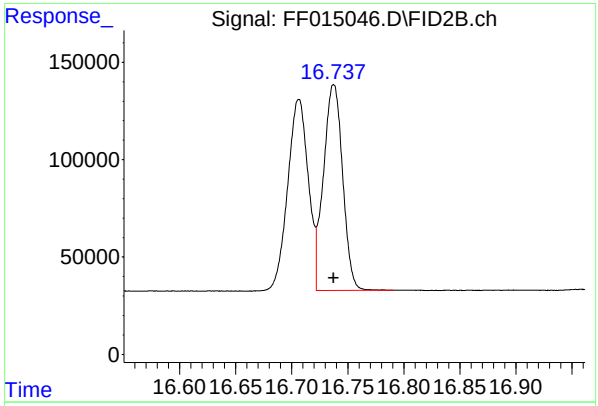
#15 Chrysene (C27.41)

R.T.: 15.192 min
Delta R.T.: 0.000 min
Response: 1246385
Conc: 10.73 ug/ml



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

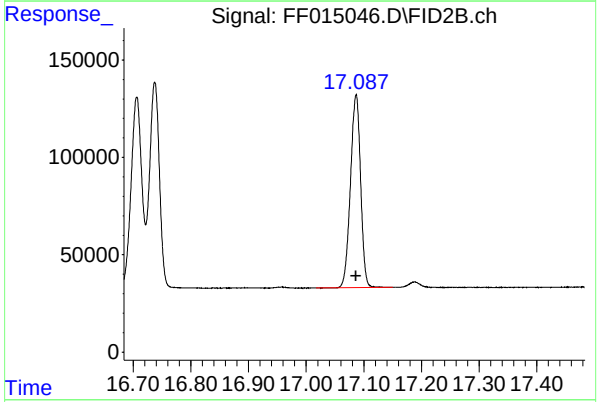
R.T.: 16.706 min
Delta R.T.: 0.000 min
Response: 1255307
Conc: 10.66 ug/ml



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

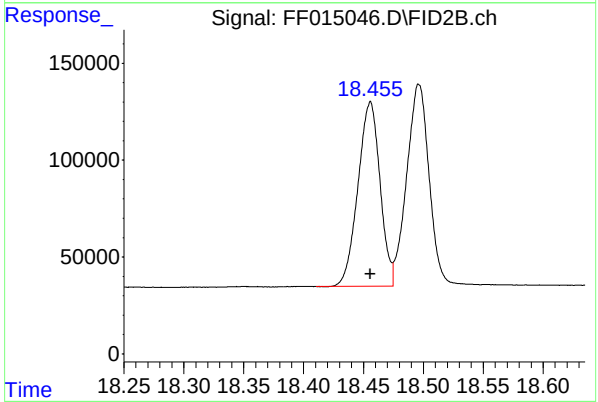
R.T.: 16.737 min
Delta R.T.: 0.000 mi
Response: 1262152
Conc: 10.80 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4



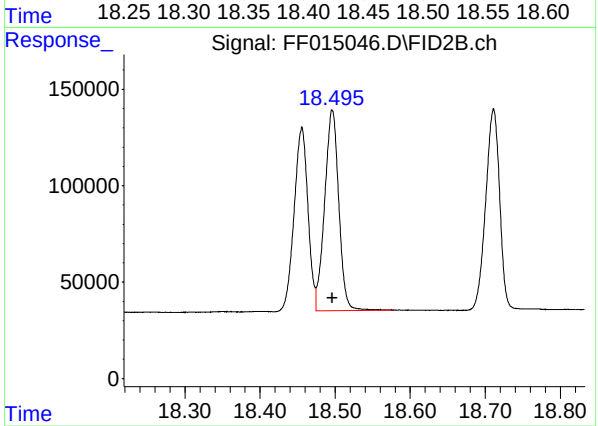
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.087 min
Delta R.T.: 0.000 min
Response: 1212692
Conc: 10.67 ug/ml



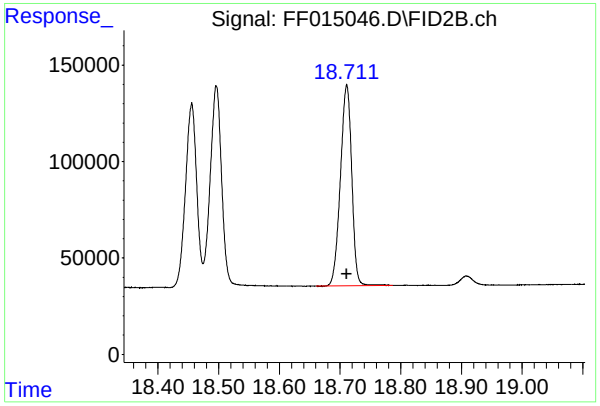
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.456 min
Delta R.T.: 0.000 min
Response: 1218869
Conc: 10.51 ug/ml



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

R.T.: 18.496 min
Delta R.T.: 0.000 min
Response: 1363538
Conc: 11.28 ug/ml



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

R.T.: 18.711 min
Delta R.T.: 0.000 mi
Response: 1353291
Conc: 10.73 ug/m

Instrument :
FID_F
ClientSampleId :
10 PPM AROMATIC HC STD4

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015046.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 18:58
Sample : 10 PPM AROMATIC HC STD4
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.550	4.674	BB	143251	1417126	98.03%	5.176%
2	6.272	6.205	6.337	BB	148542	1445570	100.00%	5.280%
3	7.364	7.322	7.429	BB	144290	1404290	97.14%	5.129%
4	7.989	7.929	8.049	BB	128159	1273061	88.07%	4.650%
5	8.664	8.594	8.739	BB	145479	1423984	98.51%	5.201%
6	8.863	8.799	8.924	BB	83829	850976	58.87%	3.108%
7	8.962	8.929	9.034	BB	140967	1396444	96.60%	5.100%
8	9.751	9.682	9.809	BB	137386	1389870	96.15%	5.076%
9	11.156	11.069	11.195	BV	127059	1335378	92.38%	4.877%
10	11.230	11.195	11.292	VB	120584	1313361	90.85%	4.797%
11	11.924	11.852	11.975	BB	130126	1402058	96.99%	5.121%
12	12.974	12.937	13.017	PB	119410	1299695	89.91%	4.747%
13	13.273	13.209	13.307	BV	114816	1282082	88.69%	4.683%
14	15.151	15.080	15.171	BV	100824	1232832	85.28%	4.503%
15	15.192	15.171	15.260	VB	106359	1246385	86.22%	4.552%
16	16.706	16.640	16.722	BV	98587	1255307	86.84%	4.585%
17	16.737	16.722	16.790	VB	105922	1262152	87.31%	4.610%
18	17.087	17.017	17.150	BB	99434	1212692	83.89%	4.429%
19	18.456	18.410	18.475	BV	95099	1218869	84.32%	4.452%
20	18.496	18.475	18.577	VB	104040	1363538	94.33%	4.980%
21	18.711	18.660	18.787	BB	104146	1353291	93.62%	4.943%
			Sum of corrected areas:			27378959		

Aromatic EPH 111524.M Fri Nov 15 02:11:44 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015047.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:27
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 15 02:01:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.989	661811	5.420 ug/ml
Spiked Amount	50.000		Recovery =	10.84%
6) S	2-Flurobiphenyl (SURR)	8.862	439890	5.388 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	10.78%
11) S	ortho-Terphenyl (SURR)	11.923	737041	5.494 ug/ml
Spiked Amount	50.000		Recovery =	10.99%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	738465	5.451 ug/ml
2) T	Naphthalene (C11.7)	6.272	746372	5.405 ug/ml
3) T	2-Methylnaphthalene (...	7.364	730162	5.414 ug/ml
5) T	Acenaphthylene (C15.06)	8.663	742151	5.435 ug/ml
7) T	Acenaphthene (C15.5)	8.961	727345	5.442 ug/ml
8) T	Flouorene (C16.55)	9.749	725199	5.433 ug/ml
9) T	Phenanthrene (C19.36)	11.155	699717	5.449 ug/ml
10) T	Anthracene (C19.43)	11.229	690077	5.470 ug/ml
12) T	Fluoranthene (C21.85)	12.974	682318	5.456 ug/ml
13) T	Pyrene (C20.8)	13.272	671431	5.435 ug/ml
14) T	Benzo[a]anthracene (C...	15.149	648569	5.471 ug/ml
15) T	Chrysene (C27.41)	15.191	663253	5.554 ug/ml
16) T	benzo[b]fluoranthene ...	16.704	665220	5.507 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.736	672090	5.583 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.084	641313	5.503 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.452	644590	5.438 ug/ml
20) T	Dibenz[a,h]anthracene...	18.494	778478	6.090 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.707	721502	5.561 ug/ml

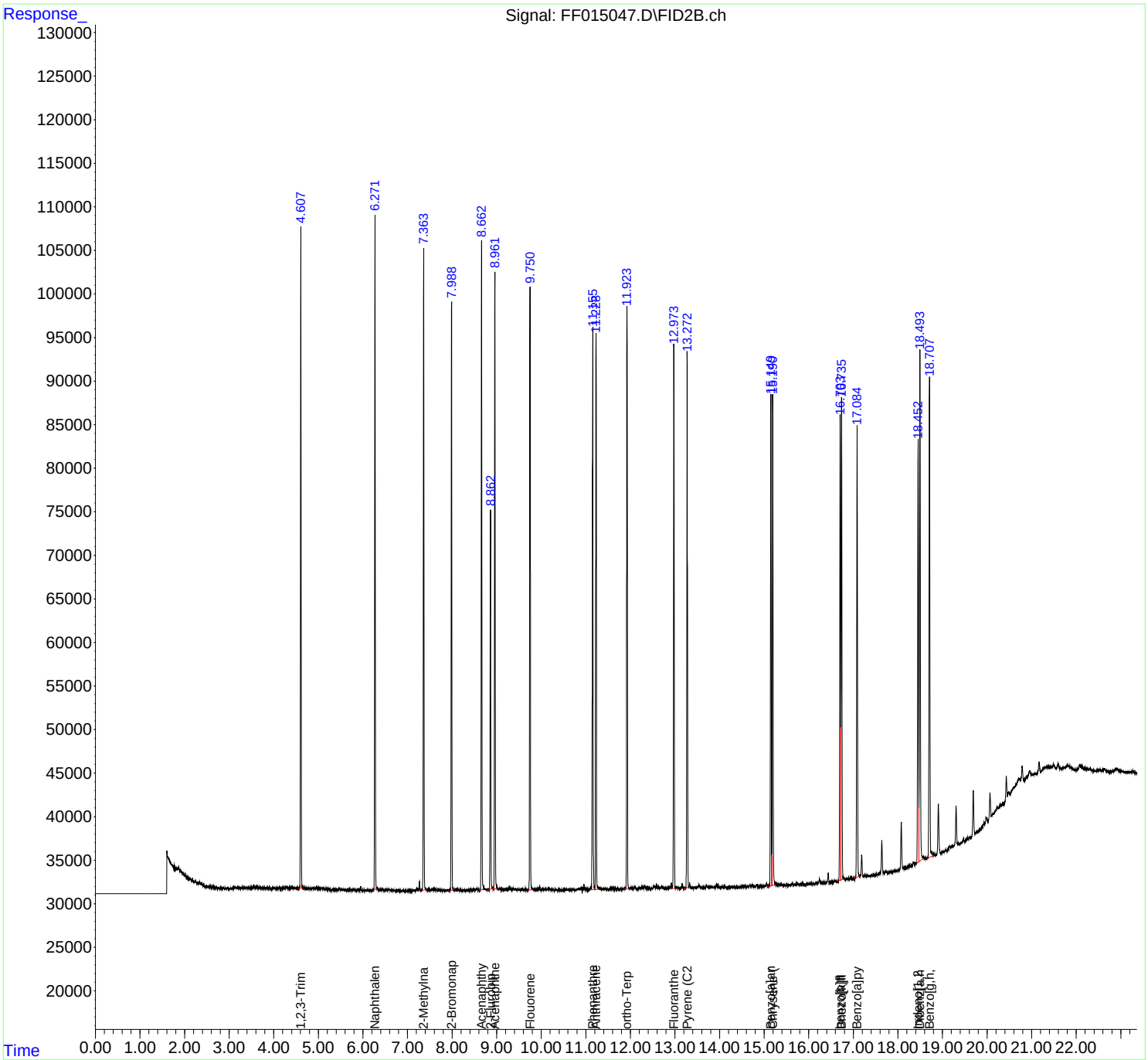
(f)=RT Delta > 1/2 Window (m)=manual int.

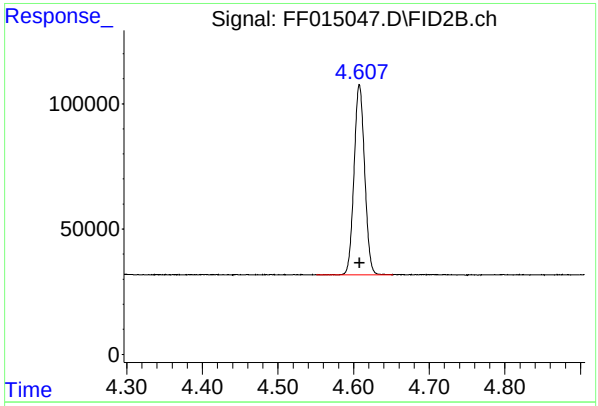
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015047.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:27
Operator : YP\AJ
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

Integration File: autoint1.e
Quant Time: Nov 15 02:01:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 01:54:20 2024
Response via : Initial Calibration
Integrator: ChemStation

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

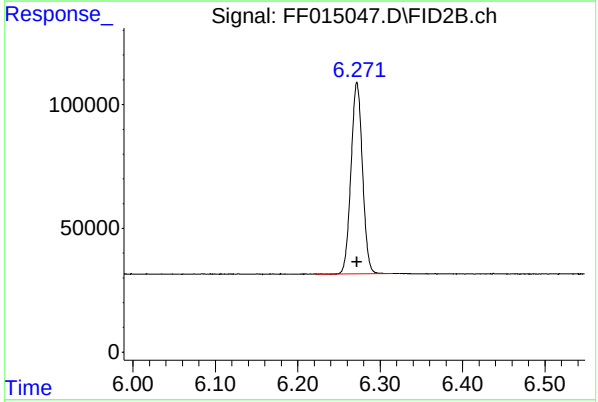




#1 1,2,3-Trimethylbenzene (C10.1)

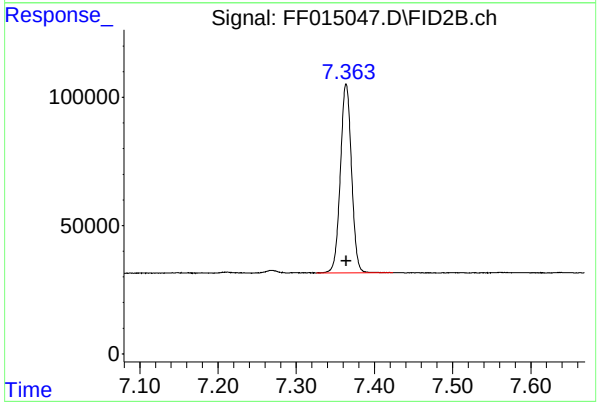
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 738465
Conc: 5.45 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



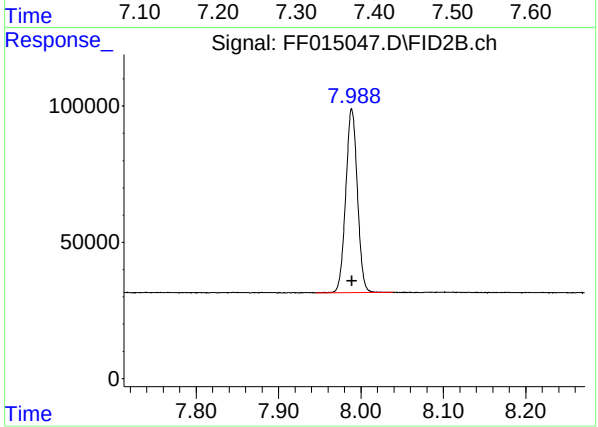
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 746372
Conc: 5.40 ug/ml



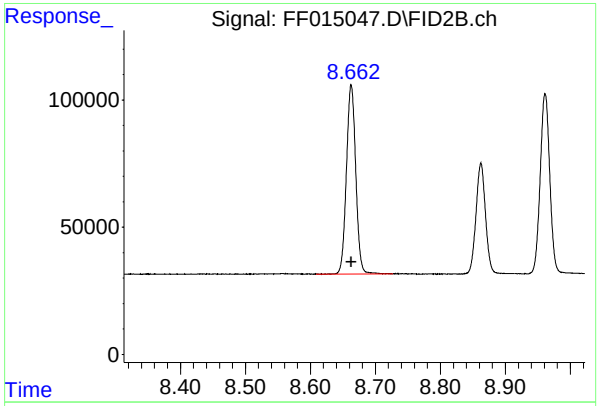
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.364 min
Delta R.T.: 0.000 min
Response: 730162
Conc: 5.41 ug/ml



#4 2-Bromonaphthalene (SURR)

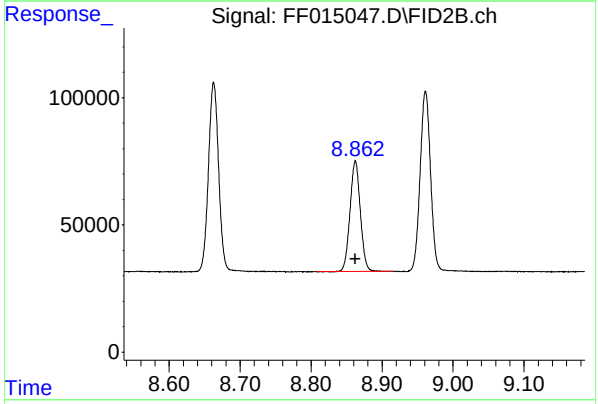
R.T.: 7.989 min
Delta R.T.: 0.000 min
Response: 661811
Conc: 5.42 ug/ml



#5 Acenaphthylene (C15.06)

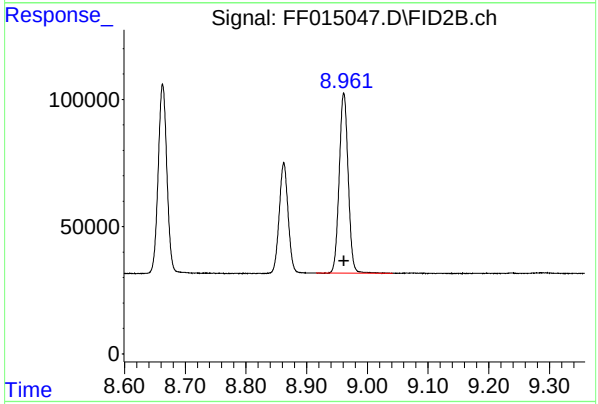
R.T.: 8.663 min
Delta R.T.: 0.000 min
Response: 742151
Conc: 5.43 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



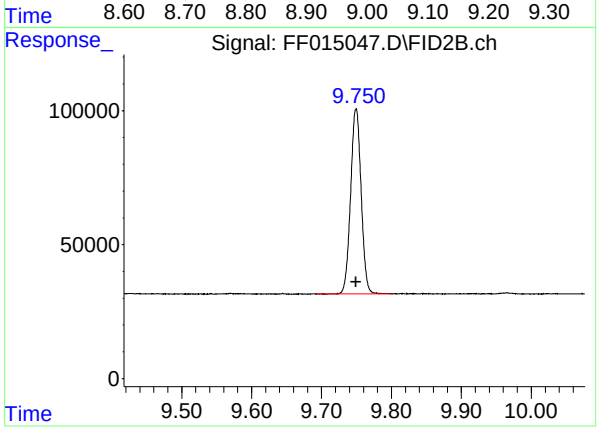
#6 2-Flurobiphenyl (SURR)

R.T.: 8.862 min
Delta R.T.: 0.000 min
Response: 439890
Conc: 5.39 ug/ml



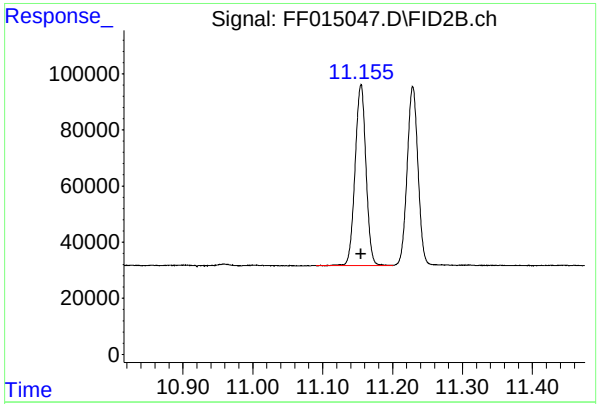
#7 Acenaphthene (C15.5)

R.T.: 8.961 min
Delta R.T.: 0.000 min
Response: 727345
Conc: 5.44 ug/ml



#8 Flouorene (C16.55)

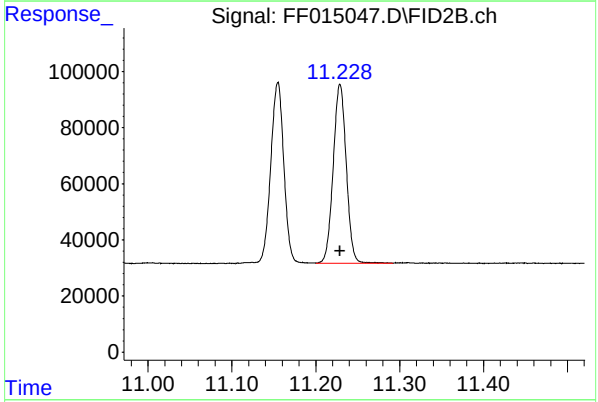
R.T.: 9.749 min
Delta R.T.: 0.000 min
Response: 725199
Conc: 5.43 ug/ml



#9 Phenanthrene (C19.36)

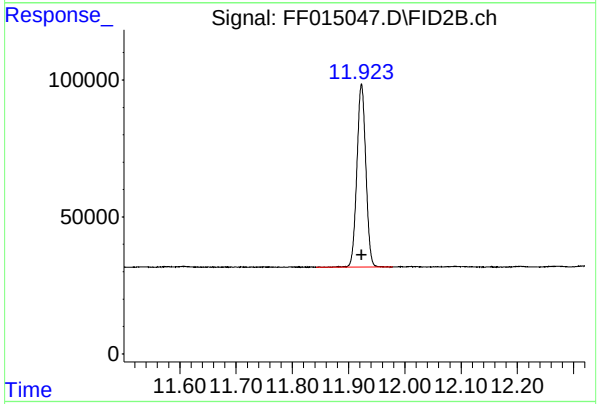
R.T.: 11.155 min
Delta R.T.: 0.000 min
Response: 699717
Conc: 5.45 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



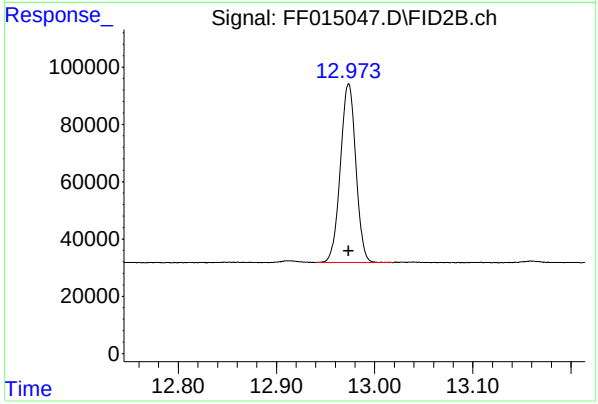
#10 Anthracene (C19.43)

R.T.: 11.229 min
Delta R.T.: 0.000 min
Response: 690077
Conc: 5.47 ug/ml



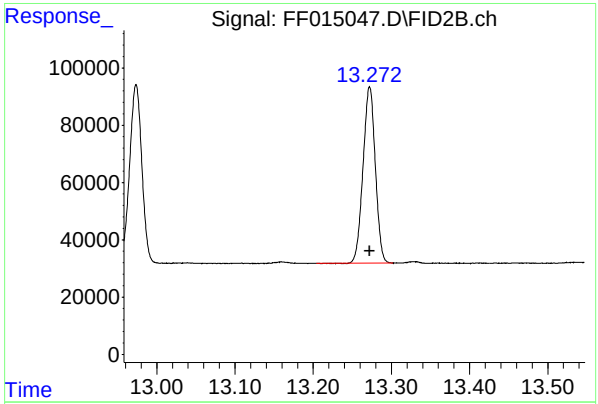
#11 ortho-Terphenyl (SURR)

R.T.: 11.923 min
Delta R.T.: 0.000 min
Response: 737041
Conc: 5.49 ug/ml



#12 Fluoranthene (C21.85)

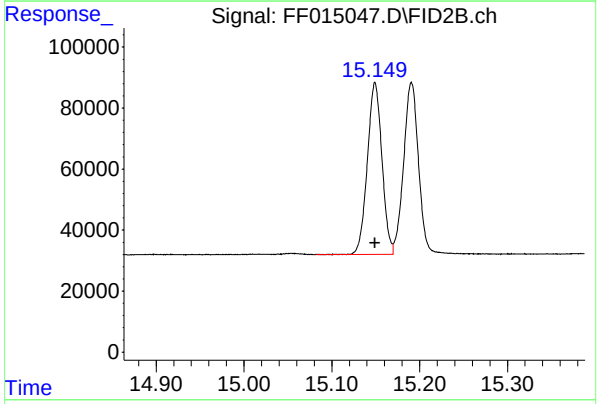
R.T.: 12.974 min
Delta R.T.: 0.000 min
Response: 682318
Conc: 5.46 ug/ml



#13 Pyrene (C20.8)

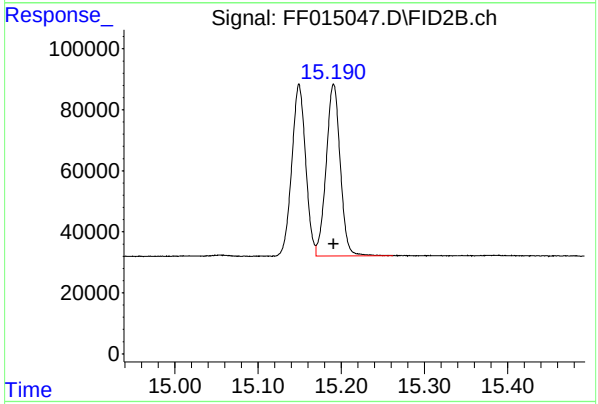
R.T.: 13.272 min
Delta R.T.: 0.000 min
Response: 671431
Conc: 5.44 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



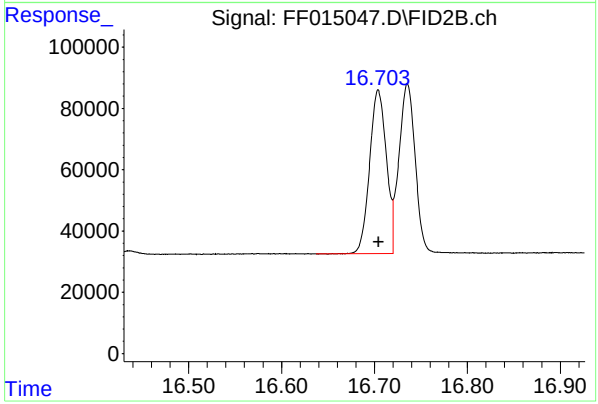
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.149 min
Delta R.T.: 0.000 min
Response: 648569
Conc: 5.47 ug/ml



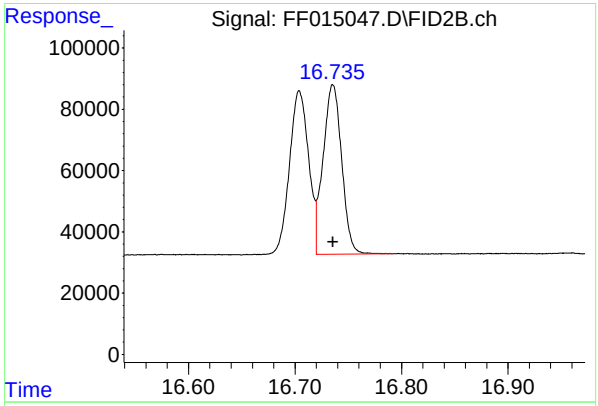
#15 Chrysene (C27.41)

R.T.: 15.191 min
Delta R.T.: 0.000 min
Response: 663253
Conc: 5.55 ug/ml



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

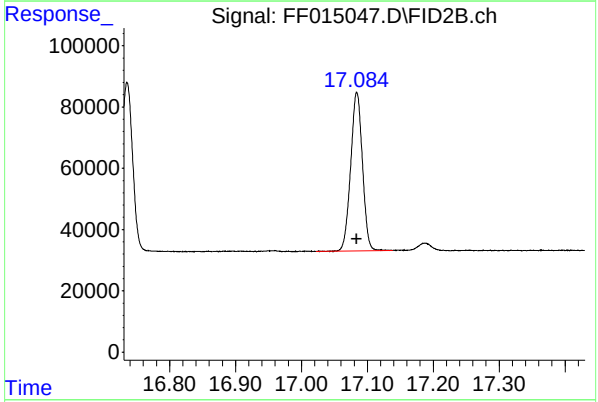
R.T.: 16.704 min
Delta R.T.: 0.000 min
Response: 665220
Conc: 5.51 ug/ml



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

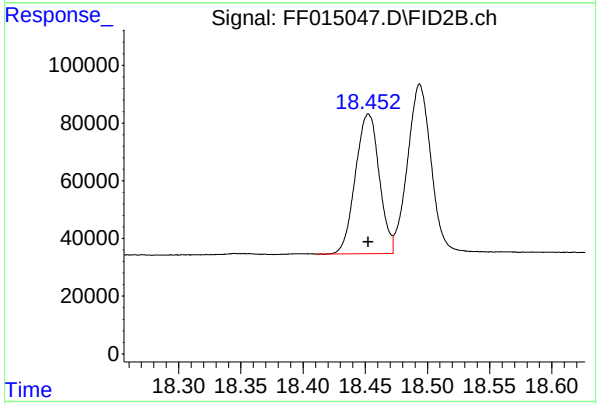
R.T.: 16.736 min
Delta R.T.: 0.000 min
Response: 672090
Conc: 5.58 ug/ml

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5



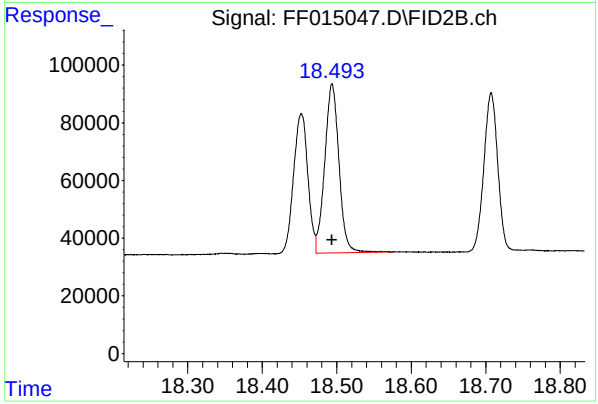
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.084 min
Delta R.T.: 0.000 min
Response: 641313
Conc: 5.50 ug/ml



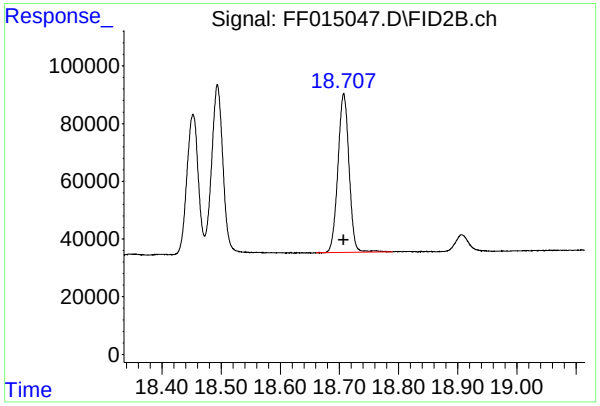
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.452 min
Delta R.T.: 0.000 min
Response: 644590
Conc: 5.44 ug/ml



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

R.T.: 18.494 min
Delta R.T.: 0.000 min
Response: 778478
Conc: 6.09 ug/ml



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

R.T.: 18.707 min
Delta R.T.: 0.000 mir
Response: 721502
Conc: 5.56 ug/m

Instrument :
FID_F
ClientSampleId :
5 PPM AROMATIC HC STD5

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015047.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:27
Sample : 5 PPM AROMATIC HC STD5
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.550	4.652	BB	75923	738465	94.86%	5.119%
2	6.272	6.222	6.315	BB	77254	746372	95.88%	5.173%
3	7.364	7.325	7.424	BB	73619	730162	93.79%	5.061%
4	7.989	7.945	8.039	BB	67438	661811	85.01%	4.587%
5	8.663	8.609	8.727	BB	74481	742151	95.33%	5.144%
6	8.862	8.807	8.915	BB	43387	439890	56.51%	3.049%
7	8.961	8.915	9.042	BB	70819	727345	93.43%	5.042%
8	9.750	9.692	9.802	BB	69210	725199	93.16%	5.027%
9	11.155	11.090	11.200	BV	64931	699717	89.88%	4.850%
10	11.229	11.200	11.292	VB	63887	690077	88.64%	4.783%
11	11.923	11.842	11.979	BB	66831	737041	94.68%	5.109%
12	12.974	12.940	13.019	VB	62484	682318	87.65%	4.729%
13	13.272	13.204	13.302	BV	61667	671431	86.25%	4.654%
14	15.149	15.082	15.170	BV	56296	648569	83.31%	4.496%
15	15.191	15.170	15.262	VB	56376	663253	85.20%	4.597%
16	16.704	16.637	16.720	BV	53410	665220	85.45%	4.611%
17	16.736	16.720	16.792	VB	55357	672090	86.33%	4.659%
18	17.084	17.022	17.139	BB	51827	641313	82.38%	4.445%
19	18.452	18.410	18.472	BV	48458	644590	82.80%	4.468%
20	18.494	18.472	18.575	VB	58621	778478	100.00%	5.396%
21	18.707	18.660	18.790	BB	55077	721502	92.68%	5.001%
			Sum of corrected areas:			14426996		

Aromatic EPH 111524.M Fri Nov 15 02:12:05 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015048.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:55
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 15 02:04:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.990	2307596	18.897 ug/ml
Spiked Amount	50.000		Recovery =	37.79%
6) S	2-Flurobiphenyl (SURR)	8.863	1548832	18.971 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	37.94%
11) S	ortho-Terphenyl (SURR)	11.924	2541843	18.948 ug/ml
Spiked Amount	50.000		Recovery =	37.90%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.608	2544338	18.781 ug/ml
2) T	Naphthalene (C11.7)	6.272	2614528	18.933 ug/ml
3) T	2-Methylnaphthalene (...	7.365	2547059	18.886 ug/ml
5) T	Acenaphthylene (C15.06)	8.664	2585134	18.931 ug/ml
7) T	Acenaphthene (C15.5)	8.963	2529120	18.924 ug/ml
8) T	Flouorene (C16.55)	9.751	2528998	18.946 ug/ml
9) T	Phenanthrene (C19.36)	11.156	2429410	18.919 ug/ml
10) T	Anthracene (C19.43)	11.231	2382894	18.890 ug/ml
12) T	Fluoranthene (C21.85)	12.975	2366132	18.921 ug/ml
13) T	Pyrene (C20.8)	13.274	2342086	18.959 ug/ml
14) T	Benzo[a]anthracene (C...	15.151	2224057	18.760 ug/ml
15) T	Chrysene (C27.41)	15.194	2235234	18.718 ug/ml
16) T	benzo[b]fluoranthene ...	16.709	2259609	18.707 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.741	2254846	18.730 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.089	2178925	18.698 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.458	2181342	18.401 ug/ml
20) T	Dibenz[a,h]anthracene...	18.498	2329278	18.221 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.715	2422583	18.672 ug/ml

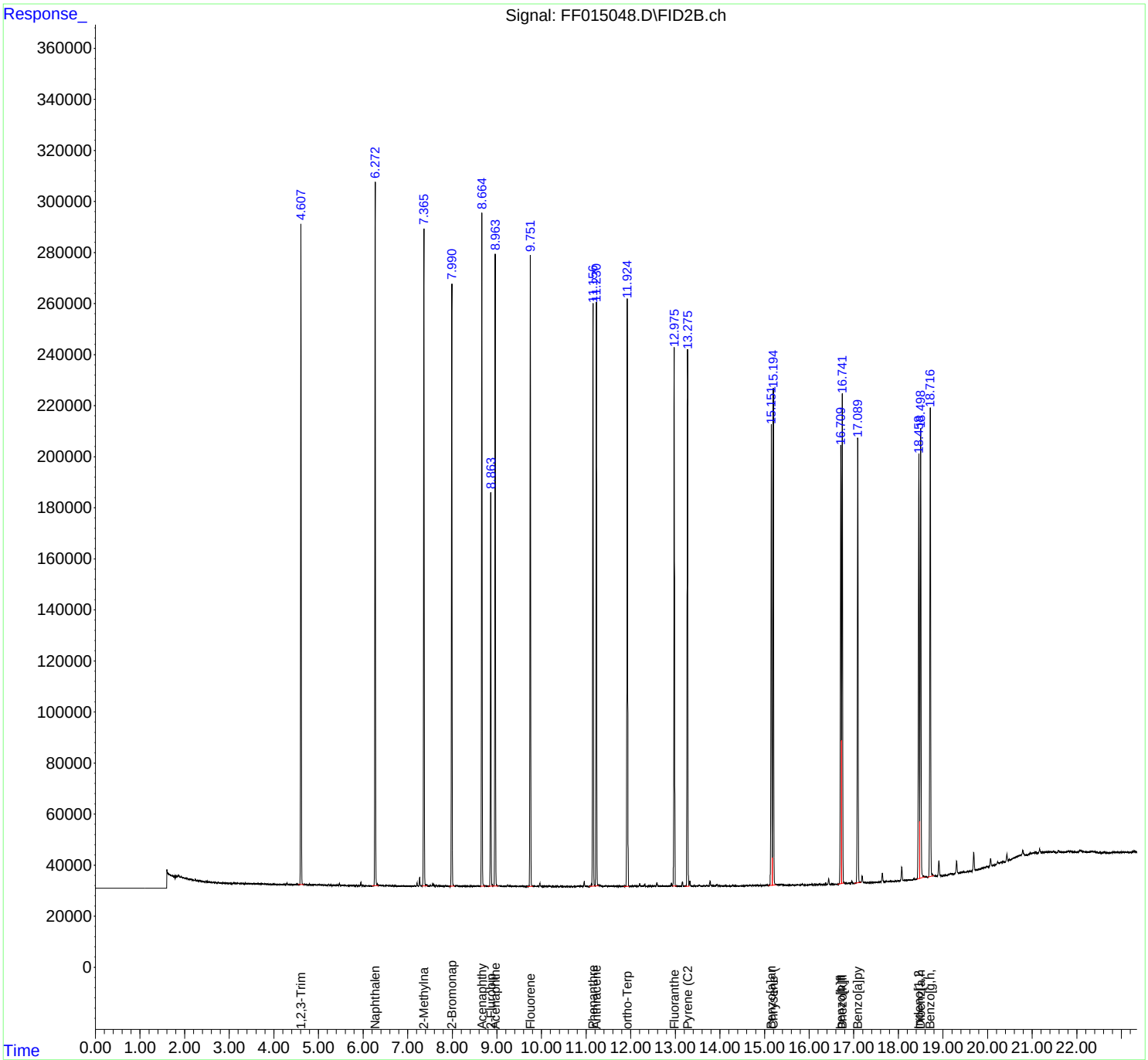
(f)=RT Delta > 1/2 Window (m)=manual int.

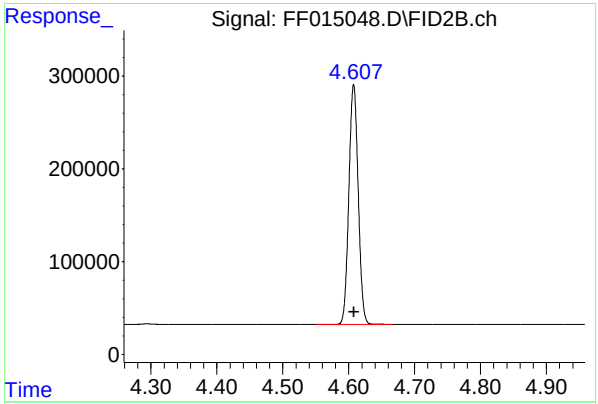
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015048.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:55
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Nov 15 02:04:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

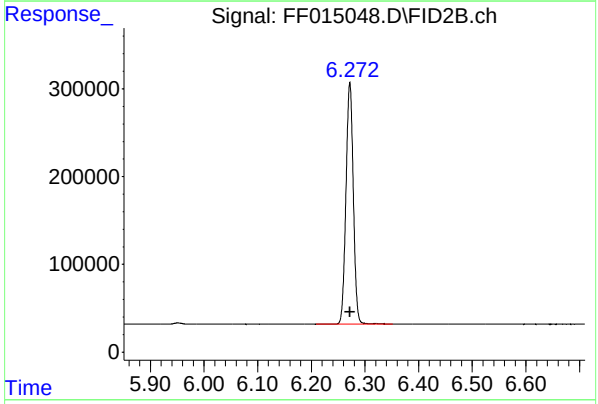




#1 1,2,3-Trimethylbenzene (C10.1)

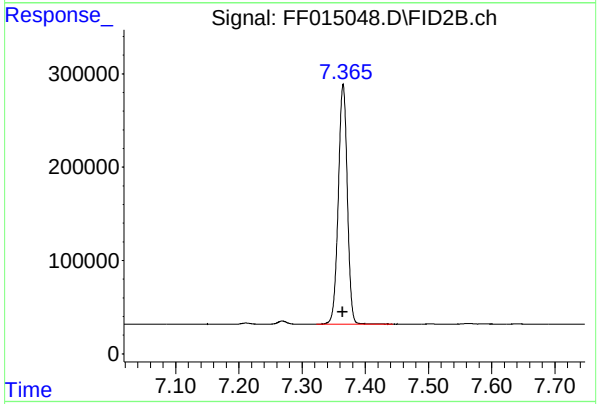
R.T.: 4.608 min
Delta R.T.: 0.000 min
Response: 2544338
Conc: 18.78 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



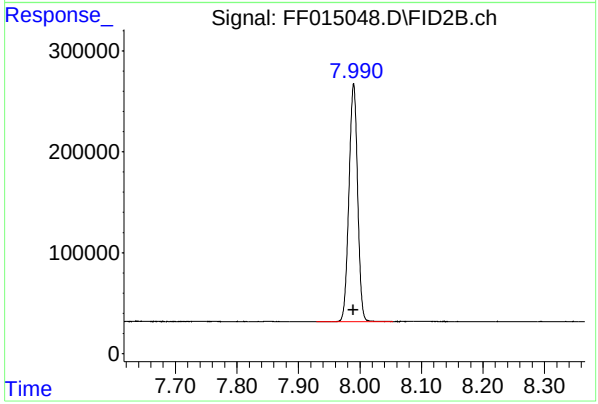
#2 Naphthalene (C11.7)

R.T.: 6.272 min
Delta R.T.: 0.000 min
Response: 2614528
Conc: 18.93 ug/ml



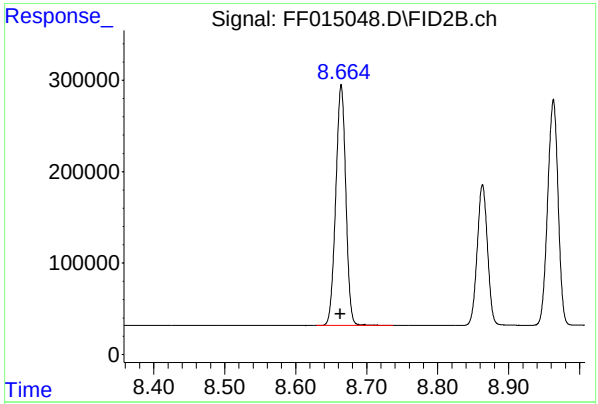
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.365 min
Delta R.T.: 0.000 min
Response: 2547059
Conc: 18.89 ug/ml



#4 2-Bromonaphthalene (SURR)

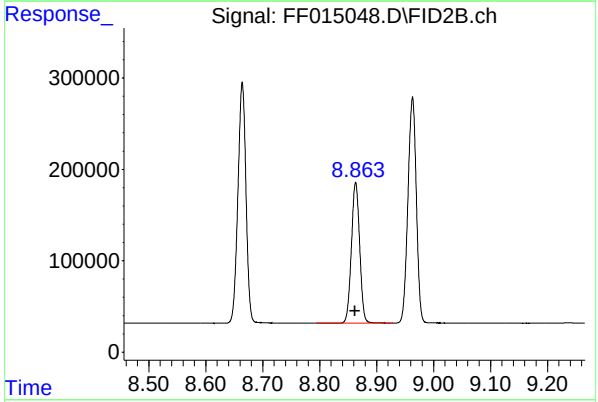
R.T.: 7.990 min
Delta R.T.: 0.000 min
Response: 2307596
Conc: 18.90 ug/ml



#5 Acenaphthylene (C15.06)

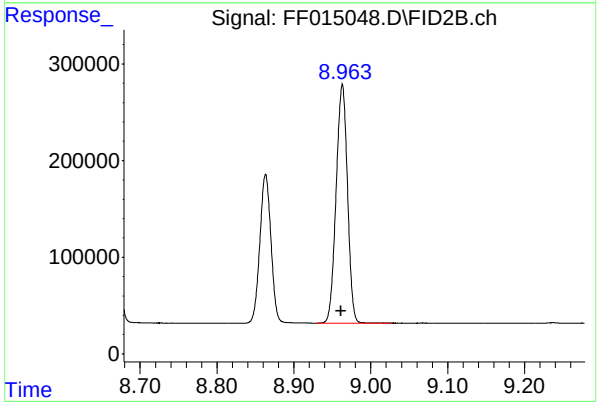
R.T.: 8.664 min
Delta R.T.: 0.001 min
Response: 2585134
Conc: 18.93 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



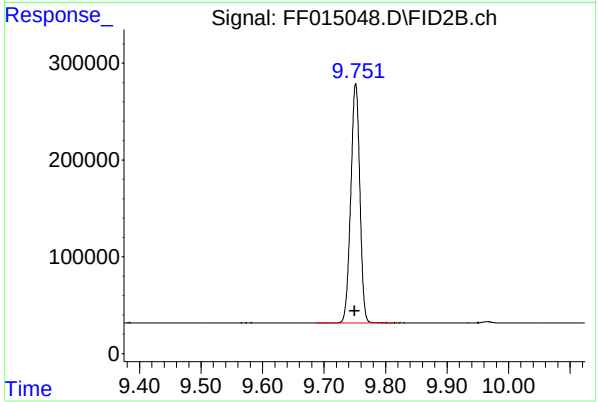
#6 2-Flurobiphenyl (SURR)

R.T.: 8.863 min
Delta R.T.: 0.000 min
Response: 1548832
Conc: 18.97 ug/ml



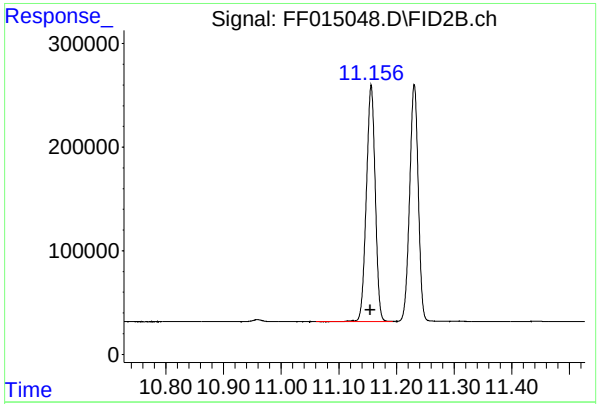
#7 Acenaphthene (C15.5)

R.T.: 8.963 min
Delta R.T.: 0.002 min
Response: 2529120
Conc: 18.92 ug/ml



#8 Flouorene (C16.55)

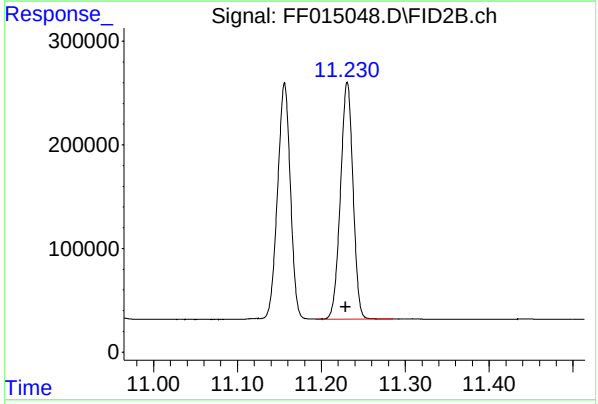
R.T.: 9.751 min
Delta R.T.: 0.002 min
Response: 2528998
Conc: 18.95 ug/ml



#9 Phenanthrene (C19.36)

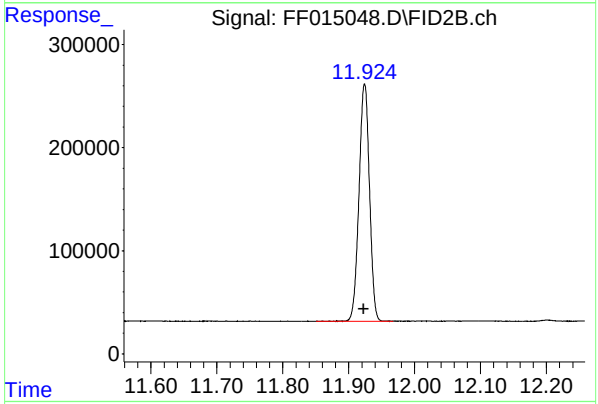
R.T.: 11.156 min
Delta R.T.: 0.001 min
Response: 2429410
Conc: 18.92 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



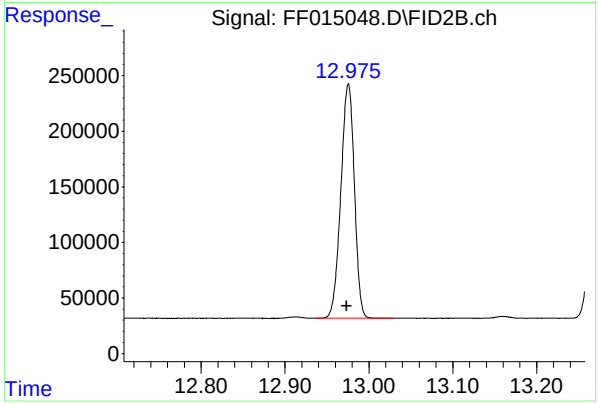
#10 Anthracene (C19.43)

R.T.: 11.231 min
Delta R.T.: 0.002 min
Response: 2382894
Conc: 18.89 ug/ml



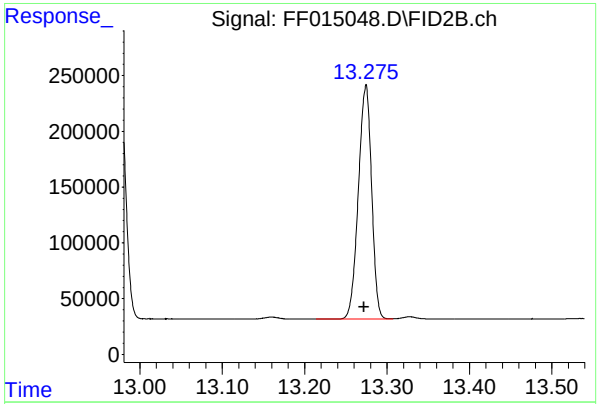
#11 ortho-Terphenyl (SURR)

R.T.: 11.924 min
Delta R.T.: 0.001 min
Response: 2541843
Conc: 18.95 ug/ml



#12 Fluoranthene (C21.85)

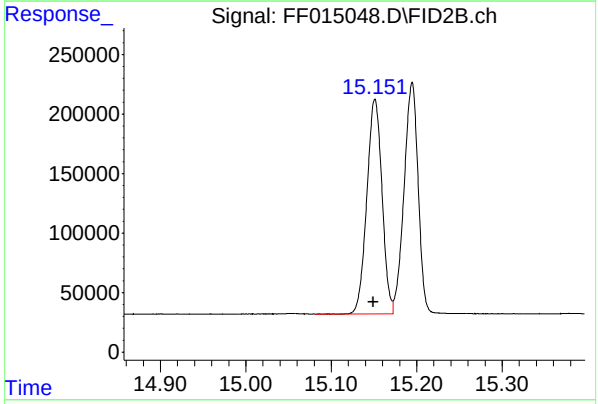
R.T.: 12.975 min
Delta R.T.: 0.002 min
Response: 2366132
Conc: 18.92 ug/ml



#13 Pyrene (C20.8)

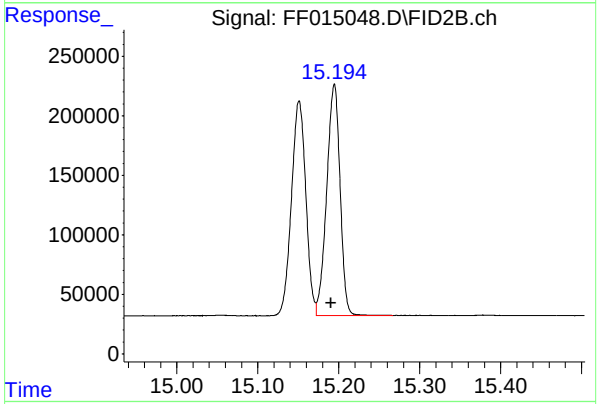
R.T.: 13.274 min
Delta R.T.: 0.002 min
Response: 2342086
Conc: 18.96 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



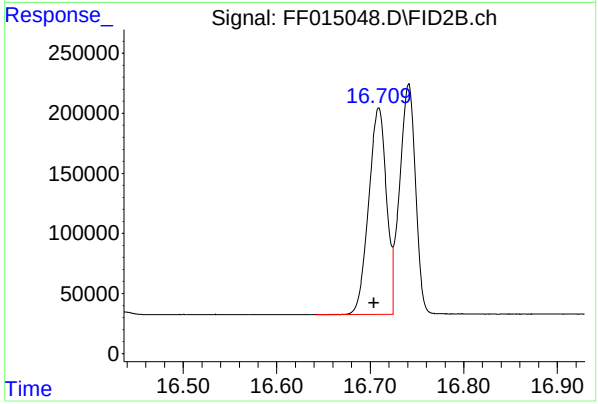
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.151 min
Delta R.T.: 0.002 min
Response: 2224057
Conc: 18.76 ug/ml



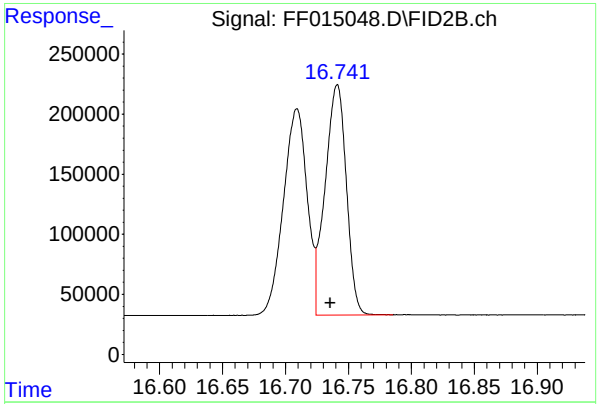
#15 Chrysene (C27.41)

R.T.: 15.194 min
Delta R.T.: 0.004 min
Response: 2235234
Conc: 18.72 ug/ml



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

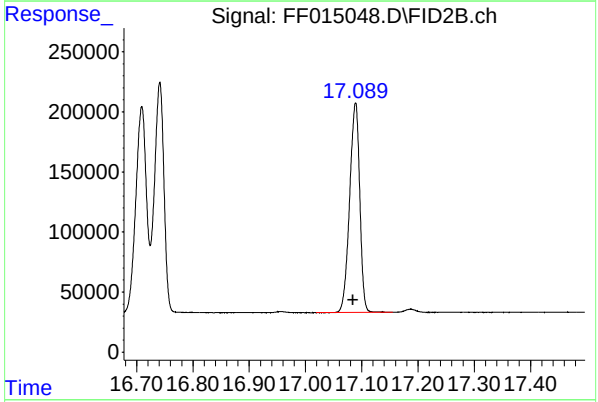
R.T.: 16.709 min
Delta R.T.: 0.005 min
Response: 2259609
Conc: 18.71 ug/ml



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

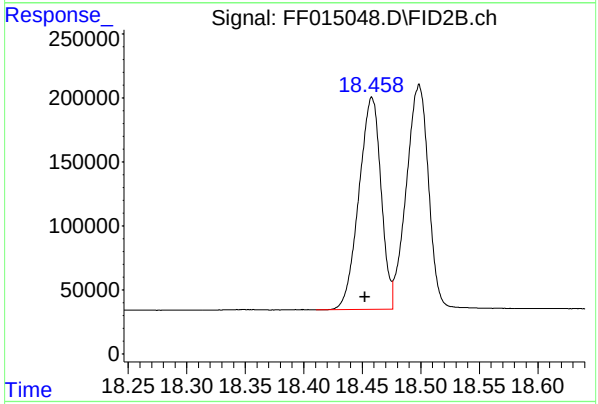
R.T.: 16.741 min
Delta R.T.: 0.005 min
Response: 2254846
Conc: 18.73 ug/ml

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV



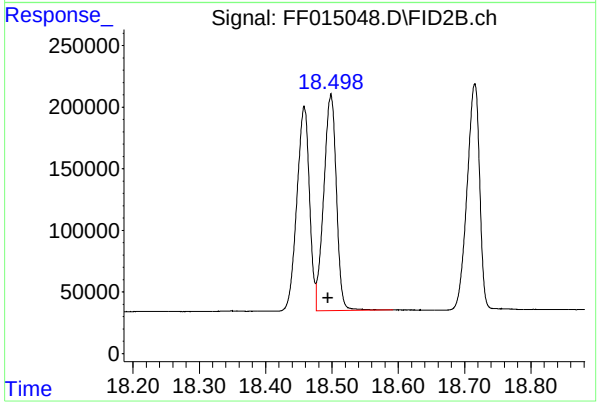
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.089 min
Delta R.T.: 0.005 min
Response: 2178925
Conc: 18.70 ug/ml



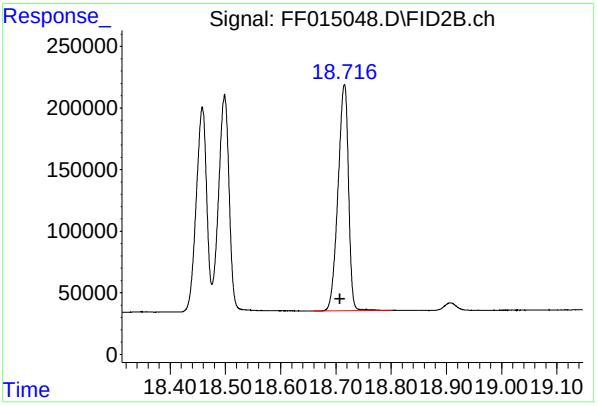
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.458 min
Delta R.T.: 0.006 min
Response: 2181342
Conc: 18.40 ug/ml



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

R.T.: 18.498 min
Delta R.T.: 0.004 min
Response: 2329278
Conc: 18.22 ug/ml



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

R.T.: 18.715 min
Delta R.T.: 0.008 mi
Response: 2422583
Conc: 18.67 ug/m

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD ICV

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111524AR\
Data File : FF015048.D
Signal(s) : FID2B.ch
Acq On : 14 Nov 2024 19:55
Sample : 20 PPM AROMATIC HC STD ICV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.608	4.550	4.667	BB	258575	2544338	97.32%	5.155%
2	6.272	6.209	6.352	BB	275773	2614528	100.00%	5.298%
3	7.365	7.322	7.444	BB	257550	2547059	97.42%	5.161%
4	7.990	7.929	8.054	BB	236476	2307596	88.26%	4.676%
5	8.664	8.629	8.737	BB	263369	2585134	98.88%	5.238%
6	8.863	8.794	8.929	BV	154270	1548832	59.24%	3.138%
7	8.963	8.929	9.029	VB	248366	2529120	96.73%	5.124%
8	9.751	9.687	9.812	BB	247596	2528998	96.73%	5.124%
9	11.156	11.060	11.194	BV	227736	2429410	92.92%	4.922%
10	11.231	11.194	11.285	VV	229138	2382894	91.14%	4.828%
11	11.924	11.850	11.967	BB	230385	2541843	97.22%	5.150%
12	12.975	12.937	13.029	PB	210905	2366132	90.50%	4.794%
13	13.274	13.214	13.307	BV	208374	2342086	89.58%	4.745%
14	15.151	15.082	15.172	BV	180316	2224057	85.07%	4.506%
15	15.194	15.172	15.267	VB	193738	2235234	85.49%	4.529%
16	16.709	16.642	16.724	BV	171969	2259609	86.43%	4.578%
17	16.741	16.724	16.785	VB	191629	2254846	86.24%	4.569%
18	17.089	17.019	17.155	BB	174820	2178925	83.34%	4.415%
19	18.458	18.410	18.476	BV	165865	2181342	83.43%	4.420%
20	18.498	18.476	18.592	VB	176177	2329278	89.09%	4.720%
21	18.715	18.660	18.800	BBA	183756	2422583	92.66%	4.909%
			Sum of corrected areas:			49353842		

Aromatic EPH 111524.M Fri Nov 15 02:12:43 2024

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

Continuing Calibration Report for SequenceID : FC111524AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067770.D**						
Aliphatic C9-C12	9927990.000	60.000	3.172	6.448	165466.500	165791.359	0.196
Aliphatic C12-C16	6889494.000	40.000	6.449	9.838	172237.350	170384.422	-1.087
Aliphatic C16-C21	10337141.000	60.000	9.839	13.196	172285.683	169621.553	-1.571
Aliphatic C21-C28	12369366.000	80.000	13.197	16.850	154617.075	157280.060	1.693
Aliphatic C28-C40	13784773.000	120.000	16.851	21.693	114873.108	121111.336	5.151
Aliphatic EPH	53308764.000	360.000	3.172	21.693	148079.900	150155.324	1.382

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:	15 Nov 2024 10:16
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067770.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.172	6.448	9927990.000	60.000	ug/ml
Aliphatic C12-C16	6.449	9.838	6889494.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	10337141.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.850	12369366.000	80.000	ug/ml
Aliphatic C28-C40	16.851	21.693	13784773.000	120.000	ug/ml
Aliphatic EPH	3.172	21.693	53308764.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067770.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 10:16
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 08:19:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.489	3915314	20.195 ug/ml
	Spiked Amount 50.000		Recovery = 40.39%	
12)	S 1-chlorooctadecane (S...	12.928	2940417	20.256 ug/ml
	Spiked Amount 50.000		Recovery = 40.51%	
	Target Compounds			
1)	T n-Nonane (C9)	3.272	3241367	19.872 ug/ml
2)	T n-Decane (C10)	4.334	3306664	19.940 ug/ml
3)	T A~Naphthalene (C11.7)	5.910	3661615	19.992 ug/ml
4)	T n-Dodecane (C12)	6.348	3379959	20.068 ug/ml
5)	T A~2-methylnaphthalene...	6.964	3567561	20.116 ug/ml
6)	T n-Tetradecane (C14)	8.140	3378670	20.175 ug/ml
7)	T n-Hexadecane (C16)	9.738	3510824	20.259 ug/ml
8)	T n-Octadecane (C18)	11.179	3577492	20.334 ug/ml
10)	T n-Eicosane (C20)	12.485	3423101	20.329 ug/ml
11)	T n-Heneicosane (C21)	13.096	3336548	20.278 ug/ml
13)	T n-Docosane (C22)	13.681	3288821	20.195 ug/ml
14)	T n-Tetracosane (C24)	14.783	3174999	19.796 ug/ml
15)	T n-Hexacosane (C26)	15.802	3024802	19.532 ug/ml
16)	T n-Octacosane (C28)	16.750	2880744	19.075 ug/ml
17)	T n-Tricontane (C30)	17.636	2819745	18.417 ug/ml
18)	T n-Dotriacontane (C32)	18.466	2686140	18.188 ug/ml
19)	T n-Tetratriacontane (C34)	19.248	2321636	18.407 ug/ml
20)	T n-Hexatriacontane (C36)	19.987	1981179	18.943 ug/ml
21)	T n-Octatriacontane (C38)	20.709	1865993	19.102 ug/ml
22)	T n-Tetracontane (C40)	21.593	2110080	21.649 ug/ml

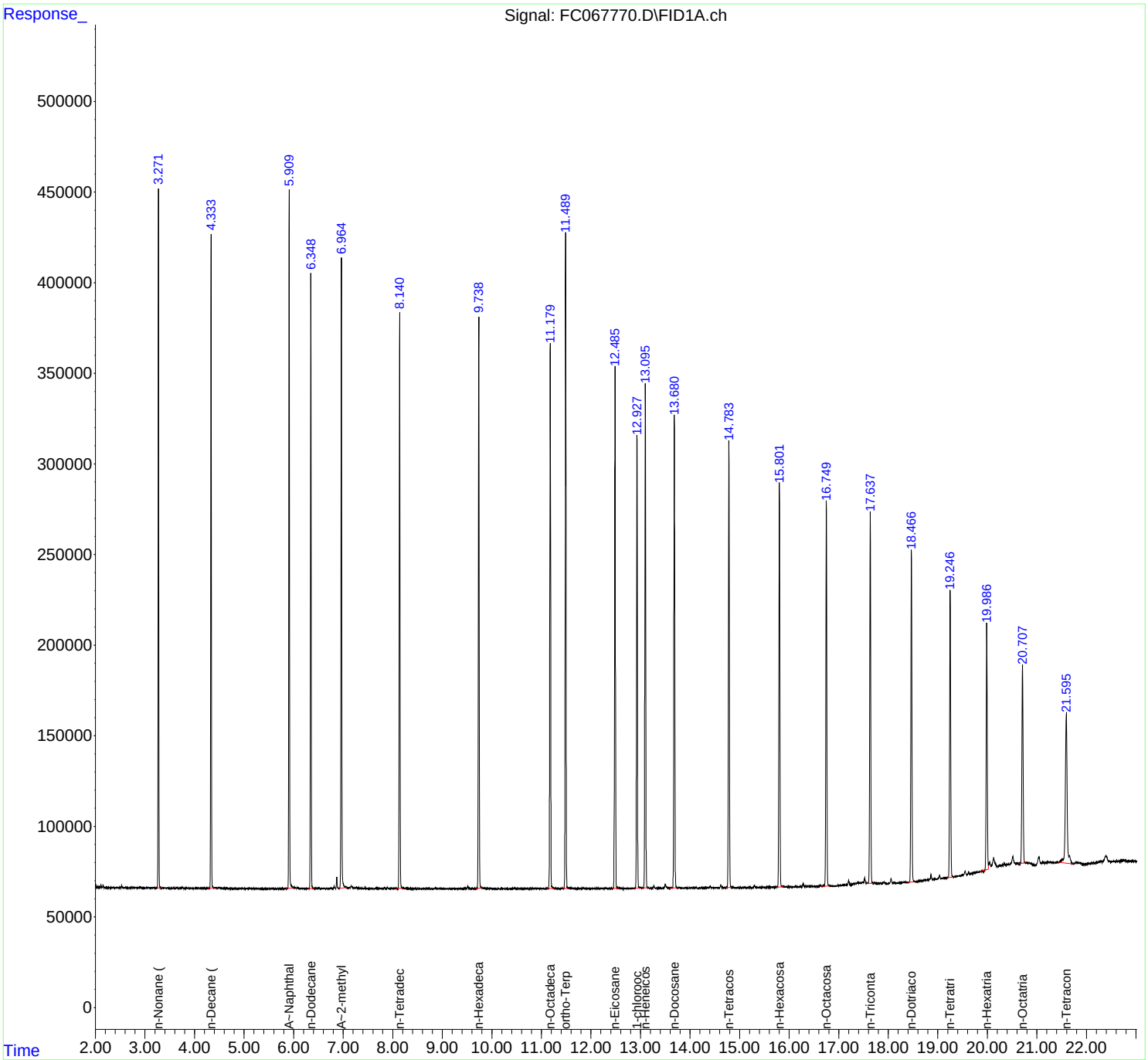
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067770.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 10:16
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 08:19:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111524AL\
Data File : FC067770.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 10:16
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 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.245	3.327	BB	386176	3241367	82.79%	4.810%
2	4.334	4.272	4.407	BB	360947	3306664	84.45%	4.906%
3	5.910	5.847	6.003	BB	386778	3661615	93.52%	5.433%
4	6.348	6.292	6.407	BB	340047	3379959	86.33%	5.015%
5	6.964	6.917	7.073	BB	348954	3567561	91.12%	5.294%
6	8.140	8.073	8.202	BB	317174	3378670	86.29%	5.013%
7	9.738	9.682	9.802	BB	316248	3510824	89.67%	5.209%
8	11.179	11.117	11.262	BB	299916	3577492	91.37%	5.308%
9	11.489	11.428	11.550	BB	357214	3915314	100.00%	5.810%
10	12.485	12.425	12.550	BB	288087	3423101	87.43%	5.079%
11	12.928	12.860	12.992	BB	250966	2940417	75.10%	4.363%
12	13.096	13.025	13.157	BB	276613	3336548	85.22%	4.951%
13	13.681	13.592	13.747	BB	257514	3288821	84.00%	4.880%
14	14.783	14.723	14.838	BB	246134	3174999	81.09%	4.711%
15	15.802	15.743	15.872	BB	221491	3024802	77.26%	4.488%
16	16.750	16.670	16.825	BB	213482	2880744	73.58%	4.275%
17	17.636	17.565	17.707	BB	203406	2819745	72.02%	4.184%
18	18.466	18.392	18.537	BB	182191	2686140	68.61%	3.986%
19	19.248	19.180	19.323	BB	156510	2321636	59.30%	3.445%
20	19.987	19.838	20.022	BV	135598	1981179	50.60%	2.940%
21	20.709	20.638	20.763	BB	109311	1865993	47.66%	2.769%
22	21.593	21.433	21.743	BB	82306	2110080	53.89%	3.131%
			Sum of corrected areas:			67393668		

Aliphatic EPH 111424.M Sat Nov 16 09:49:54 2024

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

Continuing Calibration Report for SequenceID : FC111524AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067785.D**						
Aliphatic C9-C12	10061913.000	60.000	3.172	6.448	167698.550	165791.359	-1.150
Aliphatic C12-C16	6933044.000	40.000	6.449	9.838	173326.100	170384.422	-1.726
Aliphatic C16-C21	10262529.000	60.000	9.839	13.196	171042.150	169621.553	-0.838
Aliphatic C21-C28	12272715.000	80.000	13.197	16.850	153408.938	157280.060	2.461
Aliphatic C28-C40	13658188.000	120.000	16.851	21.693	113818.233	121111.336	6.022
Aliphatic EPH	53188389.000	360.000	3.172	21.693	147745.525	150155.324	1.605

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:	15 Nov 2024 21:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067785.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.172	6.448	10061913.000	60.000	ug/ml
Aliphatic C12-C16	6.449	9.838	6933044.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	10262529.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.850	12272715.000	80.000	ug/ml
Aliphatic C28-C40	16.851	21.693	13658188.000	120.000	ug/ml
Aliphatic EPH	3.172	21.693	53188389.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067785.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 21:22
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 08:26:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.489	3902550	20.129 ug/ml
	Spiked Amount 50.000		Recovery = 40.26%	
12)	S 1-chlorooctadecane (S...	12.927	2900599	19.982 ug/ml
	Spiked Amount 50.000		Recovery = 39.96%	
	Target Compounds			
1)	T n-Nonane (C9)	3.272	3290438	20.173 ug/ml
2)	T n-Decane (C10)	4.334	3357612	20.247 ug/ml
3)	T A~Naphthalene (C11.7)	5.910	3716102	20.289 ug/ml
4)	T n-Dodecane (C12)	6.348	3413863	20.269 ug/ml
5)	T A~2-methylnaphthalene...	6.965	3606990	20.338 ug/ml
6)	T n-Tetradecane (C14)	8.140	3406762	20.342 ug/ml
7)	T n-Hexadecane (C16)	9.738	3526282	20.348 ug/ml
8)	T n-Octadecane (C18)	11.178	3573449	20.311 ug/ml
10)	T n-Eicosane (C20)	12.486	3388714	20.125 ug/ml
11)	T n-Heneicosane (C21)	13.096	3300366	20.058 ug/ml
13)	T n-Docosane (C22)	13.681	3237631	19.881 ug/ml
14)	T n-Tetracosane (C24)	14.783	3138240	19.567 ug/ml
15)	T n-Hexacosane (C26)	15.801	3005129	19.405 ug/ml
16)	T n-Octacosane (C28)	16.749	2891715	19.147 ug/ml
17)	T n-Tricontane (C30)	17.636	2843664	18.573 ug/ml
18)	T n-Dotriacontane (C32)	18.468	2722206	18.432 ug/ml
19)	T n-Tetratriacontane (C34)	19.248	2324387	18.428 ug/ml
20)	T n-Hexatriacontane (C36)	19.987	2031650	19.425 ug/ml
21)	T n-Octatriacontane (C38)	20.709	1886856	19.316 ug/ml
22)	T n-Tetracontane (C40)	21.593	1849425	18.975 ug/ml

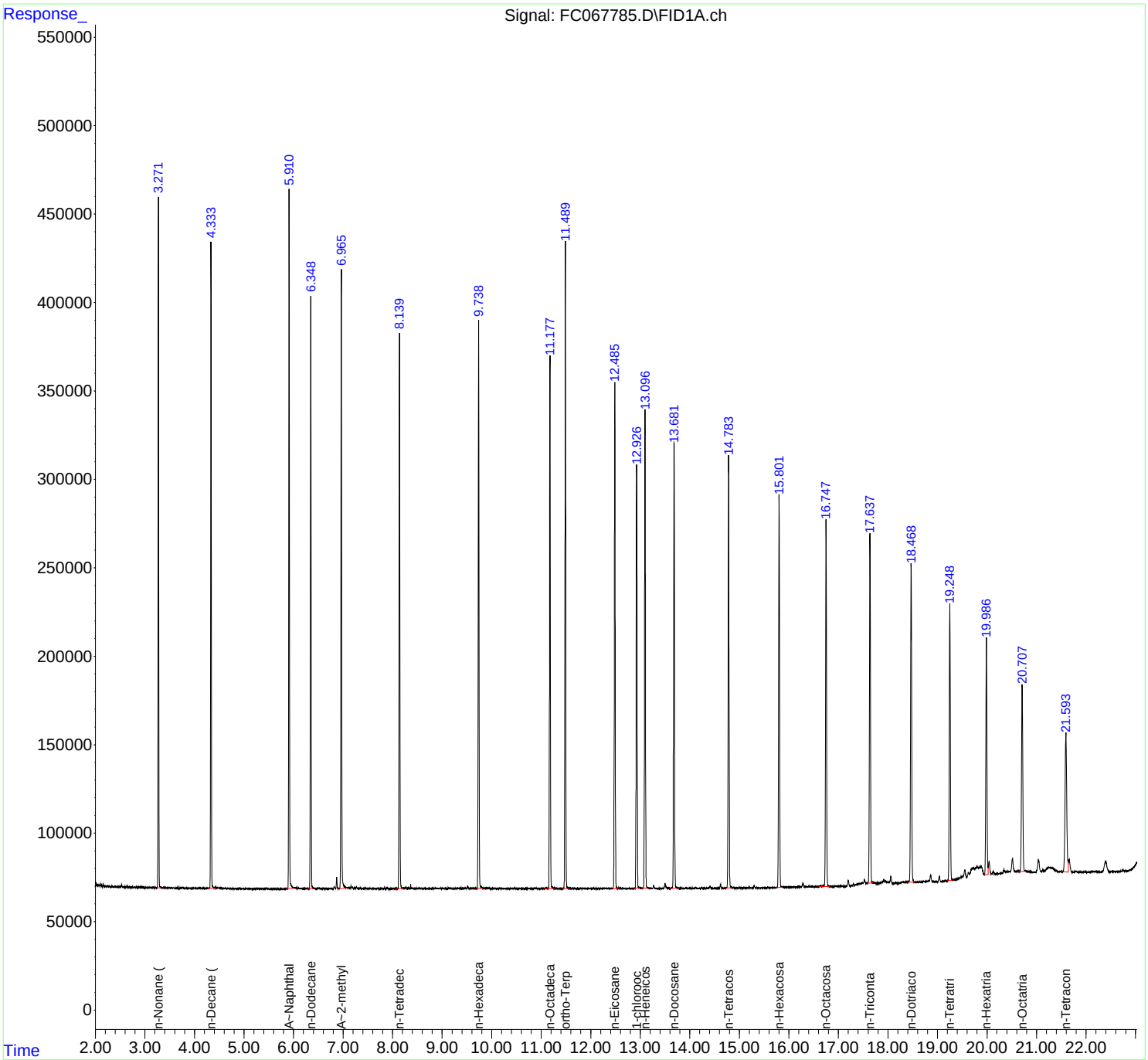
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067785.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 21:22
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 08:26:11 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111524AL\
Data File : FC067785.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 21:22
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.245	3.329	BB	390147	3290438	84.32%	4.888%
2	4.334	4.274	4.409	BB	364751	3357612	86.04%	4.988%
3	5.910	5.860	6.005	BB	395489	3716102	95.22%	5.520%
4	6.348	6.289	6.412	BB	336035	3413863	87.48%	5.072%
5	6.965	6.917	7.070	BB	350615	3606990	92.43%	5.358%
6	8.140	8.075	8.207	BB	310961	3406762	87.30%	5.061%
7	9.738	9.680	9.822	BB	321142	3526282	90.36%	5.239%
8	11.178	11.059	11.262	BB	300277	3573449	91.57%	5.309%
9	11.489	11.429	11.554	BB	362166	3902550	100.00%	5.797%
10	12.486	12.427	12.554	BB	284810	3388714	86.83%	5.034%
11	12.927	12.860	12.984	BB	238678	2900599	74.33%	4.309%
12	13.096	13.030	13.169	BB	271069	3300366	84.57%	4.903%
13	13.681	13.584	13.747	BB	251488	3237631	82.96%	4.810%
14	14.783	14.710	14.847	BB	245379	3138240	80.42%	4.662%
15	15.801	15.737	15.869	BB	221347	3005129	77.00%	4.464%
16	16.749	16.602	16.822	BB	207399	2891715	74.10%	4.296%
17	17.636	17.572	17.702	BB	196534	2843664	72.87%	4.224%
18	18.468	18.395	18.554	BB	179562	2722206	69.75%	4.044%
19	19.248	19.185	19.315	BB	156436	2324387	59.56%	3.453%
20	19.987	19.944	20.021	VV	134015	2031650	52.06%	3.018%
21	20.709	20.627	20.785	BB	105448	1886856	48.35%	2.803%
22	21.593	21.504	21.638	BV	78923	1849425	47.39%	2.747%
			Sum of corrected areas:			67314630		

Aliphatic EPH 111424.M Sat Nov 16 09:51:20 2024

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

Continuing Calibration Report for SequenceID : FC111824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067798.D**						
Aliphatic C9-C12	10666197.000	60.000	3.172	6.448	177769.950	165791.359	-7.225
Aliphatic C12-C16	7334315.000	40.000	6.449	9.838	183357.875	170384.422	-7.614
Aliphatic C16-C21	10473978.000	60.000	9.839	13.196	174566.300	169621.553	-2.915
Aliphatic C21-C28	13182976.000	80.000	13.197	16.850	164787.200	157280.060	-4.773
Aliphatic C28-C40	14659770.000	120.000	16.851	21.691	122164.750	121111.336	-0.870
Aliphatic EPH	56317236.000	360.000	3.172	21.691	156436.767	150155.324	-4.183

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:	18 Nov 2024 08:49
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067798.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.172	6.448	10666197.000	60.000	ug/ml
Aliphatic C12-C16	6.449	9.838	7334315.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	10473978.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.850	13182976.000	80.000	ug/ml
Aliphatic C28-C40	16.851	21.691	14659770.000	120.000	ug/ml
Aliphatic EPH	3.172	21.691	56317236.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067798.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 08:49
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: sample.E
Quant Time: Nov 19 04:53:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.489	3958885	20.420 ug/ml
Spiked Amount	50.000		Recovery =	40.84%
12) S	1-chlorooctadecane (S...	12.927	2924013	20.143 ug/ml
Spiked Amount	50.000		Recovery =	40.29%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3459281	21.208 ug/ml
2) T	n-Decane (C10)	4.334	3559808	21.466 ug/ml
3) T	A~Naphthalene (C11.7)	5.910	3948333	21.557 ug/ml
4) T	n-Dodecane (C12)	6.348	3647108	21.654 ug/ml
5) T	A~2-methylnaphthalene...	6.965	3837573	21.638 ug/ml
6) T	n-Tetradecane (C14)	8.140	3630402	21.678 ug/ml
7) T	n-Hexadecane (C16)	9.738	3703913	21.373 ug/ml
8) T	n-Octadecane (C18)	11.178	3680329	20.918 ug/ml
10) T	n-Eicosane (C20)	12.486	3455398	20.521 ug/ml
11) T	n-Heneicosane (C21)	13.096	3338251	20.289 ug/ml
13) T	n-Docosane (C22)	13.682	3335146	20.479 ug/ml
14) T	n-Tetracosane (C24)	14.783	3363285	20.970 ug/ml
15) T	n-Hexacosane (C26)	15.802	3278046	21.168 ug/ml
16) T	n-Octacosane (C28)	16.750	3206499	21.232 ug/ml
17) T	n-Tricontane (C30)	17.637	3143634	20.532 ug/ml
18) T	n-Dotriacontane (C32)	18.467	2945077	19.941 ug/ml
19) T	n-Tetratriacontane (C34)	19.249	2491237	19.751 ug/ml
20) T	n-Hexatriacontane (C36)	19.987	2130772	20.373 ug/ml
21) T	n-Octatriacontane (C38)	20.709	1988733	20.359 ug/ml
22) T	n-Tetracontane (C40)	21.591	1960317	20.113 ug/ml

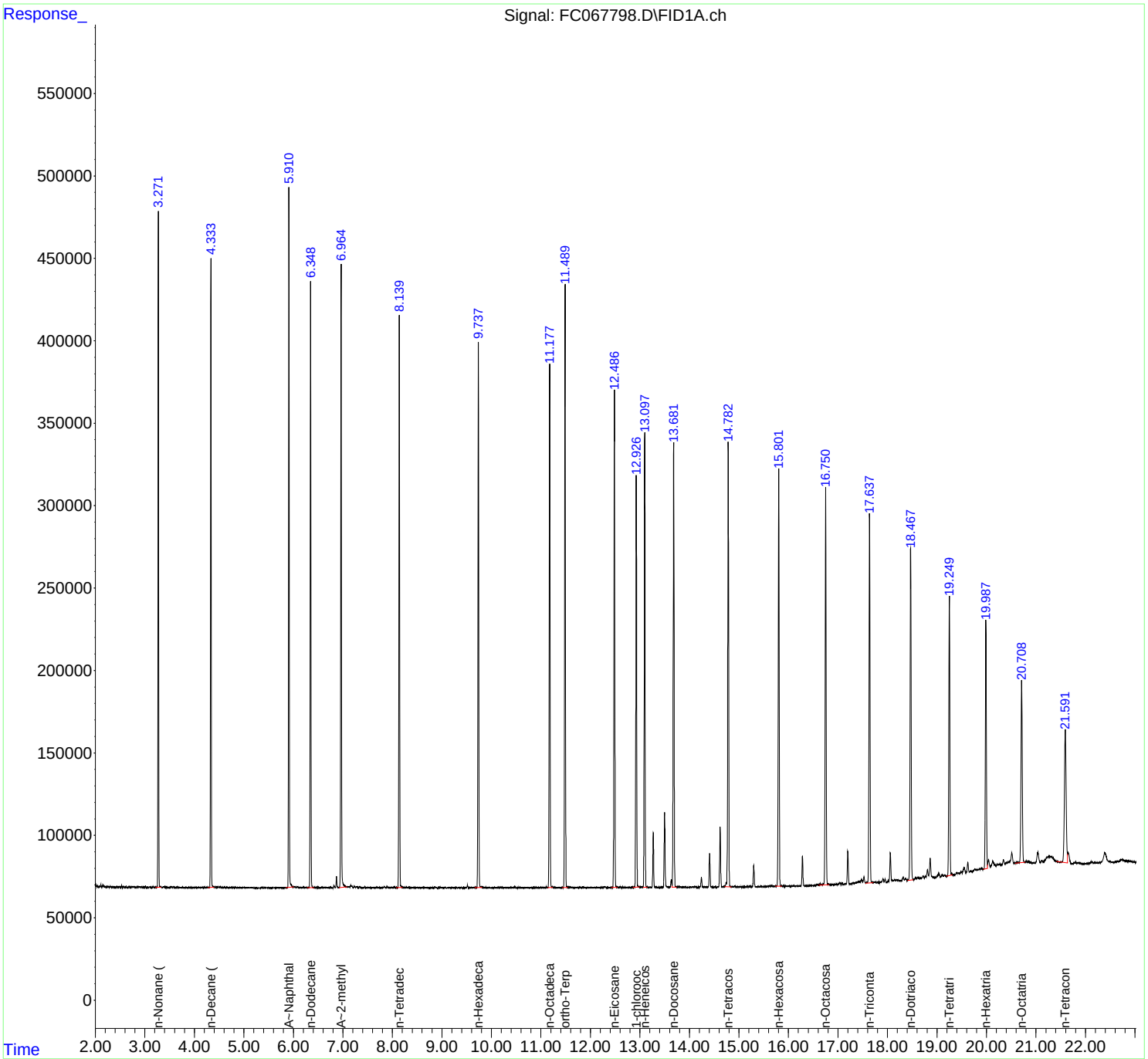
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067798.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 08:49
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: sample.E
Quant Time: Nov 19 04:53:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111824AL\
Data File : FC067798.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 08:49
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 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.212	3.324	BB	409267	3459281	87.38%	4.873%
2	4.334	4.270	4.402	BB	381517	3559808	89.92%	5.015%
3	5.910	5.850	6.004	BB	425424	3948333	99.73%	5.562%
4	6.348	6.284	6.414	BB	368906	3647108	92.12%	5.138%
5	6.965	6.917	7.079	BB	375247	3837573	96.94%	5.406%
6	8.140	8.074	8.209	BB	345179	3630402	91.70%	5.114%
7	9.738	9.670	9.810	BB	327409	3703913	93.56%	5.218%
8	11.178	11.130	11.240	BB	313676	3680329	92.96%	5.185%
9	11.489	11.429	11.545	BB	366412	3958885	100.00%	5.577%
10	12.486	12.420	12.552	BB	300869	3455398	87.28%	4.868%
11	12.927	12.860	12.987	BB	248630	2924013	73.86%	4.119%
12	13.096	13.059	13.154	BB	276831	3338251	84.32%	4.703%
13	13.682	13.648	13.744	VB	269226	3335146	84.24%	4.698%
14	14.783	14.714	14.845	BB	268705	3363285	84.96%	4.738%
15	15.802	15.739	15.869	BB	253450	3278046	82.80%	4.618%
16	16.750	16.607	16.824	BB	240553	3206499	81.00%	4.517%
17	17.637	17.562	17.712	VB	224216	3143634	79.41%	4.429%
18	18.467	18.402	18.522	BV	200766	2945077	74.39%	4.149%
19	19.249	19.185	19.315	BB	169416	2491237	62.93%	3.509%
20	19.987	19.929	20.021	BV	150909	2130772	53.82%	3.002%
21	20.709	20.584	20.784	BB	110572	1988733	50.23%	2.802%
22	21.591	21.417	21.639	BV	80449	1960317	49.52%	2.762%
			Sum of corrected areas:			70986039		

Aliphatic EPH 111424.M Tue Nov 19 05:22:04 2024

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

Continuing Calibration Report for SequenceID : FC111824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067806.D**						
Aliphatic C9-C12	10808106.000	60.000	3.172	6.448	180135.100	165791.359	-8.652
Aliphatic C12-C16	7299351.000	40.000	6.449	9.838	182483.775	170384.422	-7.101
Aliphatic C16-C21	10410399.000	60.000	9.839	13.196	173506.650	169621.553	-2.290
Aliphatic C21-C28	13177298.000	80.000	13.197	16.850	164716.225	157280.060	-4.728
Aliphatic C28-C40	14787957.000	120.000	16.851	21.691	123232.975	121111.336	-1.752
Aliphatic EPH	56483111.000	360.000	3.172	21.691	156897.531	150155.324	-4.490

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:	18 Nov 2024 14:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067806.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.172	6.448	10808106.000	60.000	ug/ml
Aliphatic C12-C16	6.449	9.838	7299351.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	10410399.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.850	13177298.000	80.000	ug/ml
Aliphatic C28-C40	16.851	21.691	14787957.000	120.000	ug/ml
Aliphatic EPH	3.172	21.691	56483111.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067806.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 04:54:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.489	3928762	20.264 ug/ml
	Spiked Amount 50.000		Recovery = 40.53%	
12)	S 1-chlorooctadecane (S...	12.928	2906772	20.024 ug/ml
	Spiked Amount 50.000		Recovery = 40.05%	
	Target Compounds			
1)	T n-Nonane (C9)	3.272	3527057	21.623 ug/ml
2)	T n-Decane (C10)	4.333	3613318	21.789 ug/ml
3)	T A~Naphthalene (C11.7)	5.910	3994788	21.811 ug/ml
4)	T n-Dodecane (C12)	6.348	3667731	21.776 ug/ml
5)	T A~2-methylnaphthalene...	6.965	3868475	21.812 ug/ml
6)	T n-Tetradecane (C14)	8.140	3621768	21.626 ug/ml
7)	T n-Hexadecane (C16)	9.738	3677583	21.221 ug/ml
8)	T n-Octadecane (C18)	11.179	3655843	20.779 ug/ml
10)	T n-Eicosane (C20)	12.486	3436942	20.411 ug/ml
11)	T n-Heneicosane (C21)	13.096	3317614	20.163 ug/ml
13)	T n-Docosane (C22)	13.682	3322411	20.401 ug/ml
14)	T n-Tetracosane (C24)	14.783	3368929	21.006 ug/ml
15)	T n-Hexacosane (C26)	15.803	3278945	21.173 ug/ml
16)	T n-Octacosane (C28)	16.750	3207013	21.235 ug/ml
17)	T n-Tricontane (C30)	17.636	3150388	20.576 ug/ml
18)	T n-Dotriacontane (C32)	18.468	2930222	19.840 ug/ml
19)	T n-Tetratriacontane (C34)	19.249	2515757	19.946 ug/ml
20)	T n-Hexatriacontane (C36)	19.988	2146611	20.525 ug/ml
21)	T n-Octatriacontane (C38)	20.711	2105835	21.558 ug/ml
22)	T n-Tetracontane (C40)	21.594	1939144	19.895 ug/ml

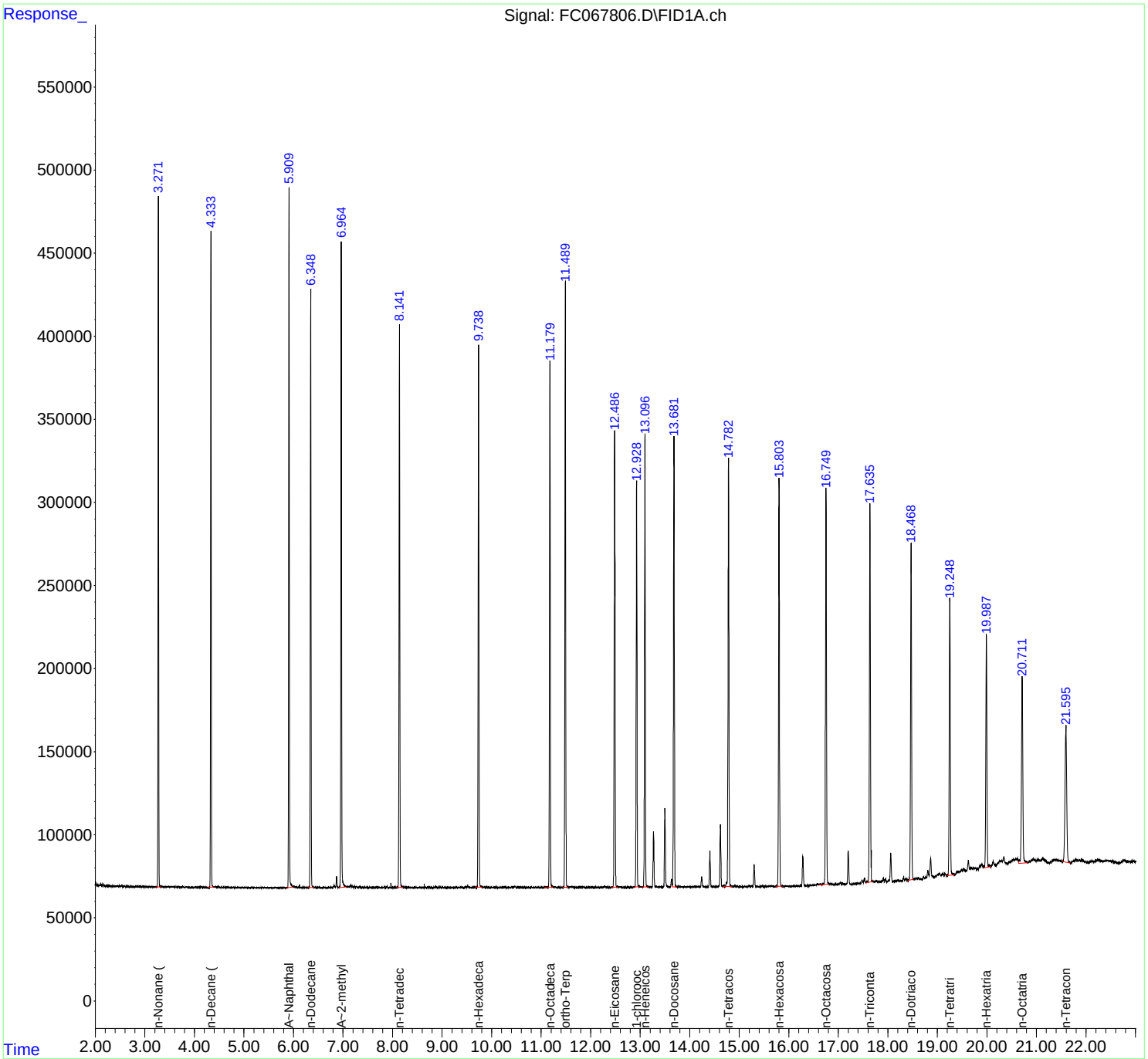
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067806.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 04:54:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111824AL\
Data File : FC067806.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 14:50
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.217	3.327	BB	415114	3527057	88.29%	4.955%
2	4.333	4.275	4.397	BB	395291	3613318	90.45%	5.076%
3	5.910	5.852	6.000	BB	421273	3994788	100.00%	5.612%
4	6.348	6.285	6.405	BB	361415	3667731	91.81%	5.153%
5	6.965	6.917	7.079	BB	389357	3868475	96.84%	5.435%
6	8.140	8.077	8.210	BB	336907	3621768	90.66%	5.088%
7	9.738	9.670	9.814	BB	326650	3677583	92.06%	5.166%
8	11.179	11.070	11.245	BB	315784	3655843	91.52%	5.136%
9	11.489	11.432	11.544	BB	365777	3928762	98.35%	5.519%
10	12.486	12.420	12.552	BB	274668	3436942	86.04%	4.828%
11	12.928	12.865	12.979	BB	245212	2906772	72.76%	4.084%
12	13.096	13.027	13.155	BB	271962	3317614	83.05%	4.661%
13	13.682	13.649	13.747	VB	271136	3322411	83.17%	4.667%
14	14.783	14.675	14.850	BB	255672	3368929	84.33%	4.733%
15	15.803	15.739	15.870	BB	244860	3278945	82.08%	4.606%
16	16.750	16.610	16.820	BB	237178	3207013	80.28%	4.505%
17	17.636	17.557	17.705	VB	223726	3150388	78.86%	4.426%
18	18.468	18.400	18.522	BB	202694	2930222	73.35%	4.117%
19	19.249	19.200	19.347	BB	166720	2515757	62.98%	3.534%
20	19.988	19.942	20.074	VB	139648	2146611	53.74%	3.016%
21	20.711	20.642	20.827	VB	111940	2105835	52.71%	2.958%
22	21.594	21.510	21.687	BV	81004	1939144	48.54%	2.724%
			Sum of corrected areas:			71181908		

Aliphatic EPH 111424.M Tue Nov 19 05:23:02 2024

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

Continuing Calibration Report for SequenceID : FC111824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067818.D**						
Aliphatic C9-C12	9264897.000	60.000	3.172	6.448	154414.950	165791.359	6.862
Aliphatic C12-C16	6368128.000	40.000	6.449	9.838	159203.200	170384.422	6.562
Aliphatic C16-C21	9355867.000	60.000	9.839	13.196	155931.117	169621.553	8.071
Aliphatic C21-C28	11909221.000	80.000	13.197	16.850	148865.263	157280.060	5.350
Aliphatic C28-C40	13299776.000	120.000	16.851	21.691	110831.467	121111.336	8.488
Aliphatic EPH	50197889.000	360.000	3.172	21.691	139438.581	150155.324	7.137

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:	19 Nov 2024 10:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067818.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.172	6.448	9264897.000	60.000	ug/ml
Aliphatic C12-C16	6.449	9.838	6368128.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	9355867.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.850	11909221.000	80.000	ug/ml
Aliphatic C28-C40	16.851	21.691	13299776.000	120.000	ug/ml
Aliphatic EPH	3.172	21.691	50197889.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067818.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 10:48:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.503	3528318	18.199 ug/ml
Spiked Amount	50.000		Recovery =	36.40%
12) S	1-chlorooctadecane (S...	12.940	2626453	18.093 ug/ml
Spiked Amount	50.000		Recovery =	36.19%
	Target Compounds			
1) T	n-Nonane (C9)	3.287	3012585	18.469 ug/ml
2) T	n-Decane (C10)	4.350	3095808	18.668 ug/ml
3) T	A~Naphthalene (C11.7)	5.927	3406903	18.601 ug/ml
4) T	n-Dodecane (C12)	6.363	3156504	18.741 ug/ml
5) T	A~2-methylnaphthalene...	6.981	3313148	18.681 ug/ml
6) T	n-Tetradecane (C14)	8.155	3138909	18.743 ug/ml
7) T	n-Hexadecane (C16)	9.752	3229219	18.634 ug/ml
8) T	n-Octadecane (C18)	11.192	3263722	18.550 ug/ml
10) T	n-Eicosane (C20)	12.497	3100325	18.412 ug/ml
11) T	n-Heneicosane (C21)	13.108	2991820	18.183 ug/ml
13) T	n-Docosane (C22)	13.693	3011155	18.490 ug/ml
14) T	n-Tetracosane (C24)	14.794	3024154	18.856 ug/ml
15) T	n-Hexacosane (C26)	15.813	2974203	19.206 ug/ml
16) T	n-Octacosane (C28)	16.761	2899709	19.200 ug/ml
17) T	n-Tricontane (C30)	17.646	2851187	18.622 ug/ml
18) T	n-Dotriacontane (C32)	18.477	2699699	18.279 ug/ml
19) T	n-Tetratriacontane (C34)	19.259	2285731	18.122 ug/ml
20) T	n-Hexatriacontane (C36)	19.997	1895069	18.120 ug/ml
21) T	n-Octatriacontane (C38)	20.720	1778652	18.208 ug/ml
22) T	n-Tetracontane (C40)	21.607	1789438	18.359 ug/ml

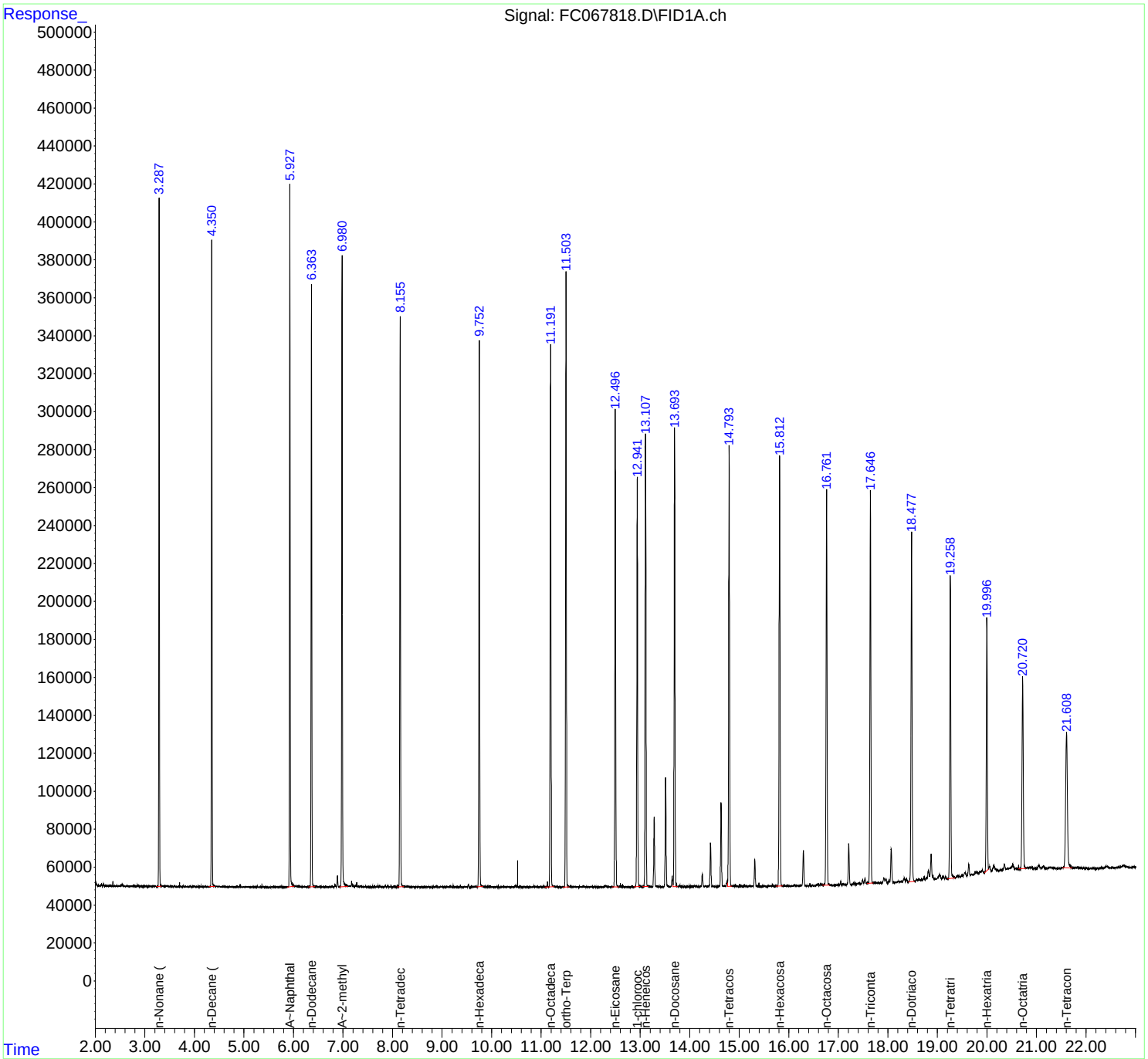
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067818.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 10:48:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111824AL\
Data File : FC067818.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 10:04
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.232	3.339	BB	362499	3012585	85.38%	4.776%
2	4.350	4.294	4.410	BB	340252	3095808	87.74%	4.908%
3	5.927	5.869	6.020	BB	368947	3406903	96.56%	5.402%
4	6.363	6.300	6.430	BB	317719	3156504	89.46%	5.005%
5	6.981	6.934	7.097	BB	328693	3313148	93.90%	5.253%
6	8.155	8.095	8.225	BB	301753	3138909	88.96%	4.977%
7	9.752	9.695	9.822	BB	286934	3229219	91.52%	5.120%
8	11.192	11.072	11.264	BB	286127	3263722	92.50%	5.175%
9	11.503	11.437	11.562	BB	325579	3528318	100.00%	5.594%
10	12.497	12.439	12.567	BB	251270	3100325	87.87%	4.915%
11	12.940	12.874	12.999	BB	214236	2626453	74.44%	4.164%
12	13.108	13.042	13.165	BB	235940	2991820	84.79%	4.743%
13	13.693	13.661	13.757	VB	241142	3011155	85.34%	4.774%
14	14.794	14.762	14.849	VB	232587	3024154	85.71%	4.795%
15	15.813	15.744	15.877	BB	227688	2974203	84.30%	4.716%
16	16.761	16.675	16.832	BB	208873	2899709	82.18%	4.597%
17	17.646	17.574	17.700	BB	205769	2851187	80.81%	4.520%
18	18.477	18.414	18.545	BV	184447	2699699	76.52%	4.280%
19	19.259	19.195	19.357	BB	158486	2285731	64.78%	3.624%
20	19.997	19.954	20.033	BV	132513	1895069	53.71%	3.005%
21	20.720	20.640	20.789	BB	100767	1778652	50.41%	2.820%
22	21.607	21.522	21.722	BB	70817	1789438	50.72%	2.837%
			Sum of corrected areas:			63072709		

Aliphatic EPH 111424.M Tue Nov 19 10:52:02 2024

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

Continuing Calibration Report for SequenceID : FC111824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FC067823.D**						
Aliphatic C9-C12	9576563.000	60.000	3.172	6.448	159609.383	165791.359	3.729
Aliphatic C12-C16	6646291.000	40.000	6.449	9.838	166157.275	170384.422	2.481
Aliphatic C16-C21	9638248.000	60.000	9.839	13.196	160637.467	169621.553	5.297
Aliphatic C21-C28	12169776.000	80.000	13.197	16.850	152122.200	157280.060	3.279
Aliphatic C28-C40	13421842.000	120.000	16.851	21.691	111848.683	121111.336	7.648
Aliphatic EPH	51452720.000	360.000	3.172	21.691	142924.222	150155.324	4.816

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Fax : 908 789 8922

Lab Sample ID:	20 PPM ALIPHATIC HC S	Acq On:	19 Nov 2024 13:09
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067823.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.172	6.448	9576563.000	60.000	ug/ml
Aliphatic C12-C16	6.449	9.838	6646291.000	40.000	ug/ml
Aliphatic C16-C21	9.839	13.196	9638248.000	60.000	ug/ml
Aliphatic C21-C28	13.197	16.850	12169776.000	80.000	ug/ml
Aliphatic C28-C40	16.851	21.691	13421842.000	120.000	ug/ml
Aliphatic EPH	3.172	21.691	51452720.000	360.000	ug/ml

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Continuing Calibration Report for SequenceID : FD111524AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048739.D**						
Aromatic C10-C12	7980264.000	40.000	4.088	5.805	199506.600	192017.544	-3.900
Aromatic C12-C16	12029423.000	60.000	5.806	8.411	200490.383	192458.977	-4.173
Aromatic C16-C21	15465460.000	80.000	8.412	12.674	193318.250	185804.816	-4.044
Aromatic C21-C36	29429232.000	180.000	12.675	18.081	163495.733	157231.056	-3.984
Aromatic EPH	64904379.000	360.000	4.088	18.081	180289.942	173317.266	-4.023

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	15 Nov 2024 10:16
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048739.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	7980264.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	12029423.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	15465460.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	29429232.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	64904379.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048739.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 10:16
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: sample.E
Quant Time: Nov 16 09:48:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.365	3601336	20.455 ug/ml
Spiked Amount	50.000		Recovery =	40.91%
6) S	2-Flurobiphenyl (SURR)	8.215	2386575	20.722 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.44%
11) S	ortho-Terphenyl (SURR)	11.250	3999876	20.796 ug/ml
Spiked Amount	50.000		Recovery =	41.59%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.188	3941454	20.914 ug/ml
2) T	Naphthalene (C11.7)	5.705	4038810	20.651 ug/ml
3) T	2-Methylnaphthalene (...	6.752	3961897	20.731 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	4082261	21.051 ug/ml
7) T	Acenaphthene (C15.5)	8.311	3985265	20.719 ug/ml
8) T	Flouorene (C16.55)	9.090	3981632	20.754 ug/ml
9) T	Phenanthrene (C19.36)	10.477	3846061	20.982 ug/ml
10) T	Anthracene (C19.43)	10.553	3867529	20.652 ug/ml
12) T	Fluoranthene (C21.85)	12.282	3820530	20.863 ug/ml
13) T	Pyrene (C20.8)	12.574	3770238	20.854 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	3481104	21.161 ug/ml
15) T	Chrysene (C27.41)	14.486	3639758	20.797 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3317929	21.117 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	3418454	20.947 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.367	3100597	20.796 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.731	2534171	20.515 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	3236884	20.642 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.981	2879805	20.183 ug/ml

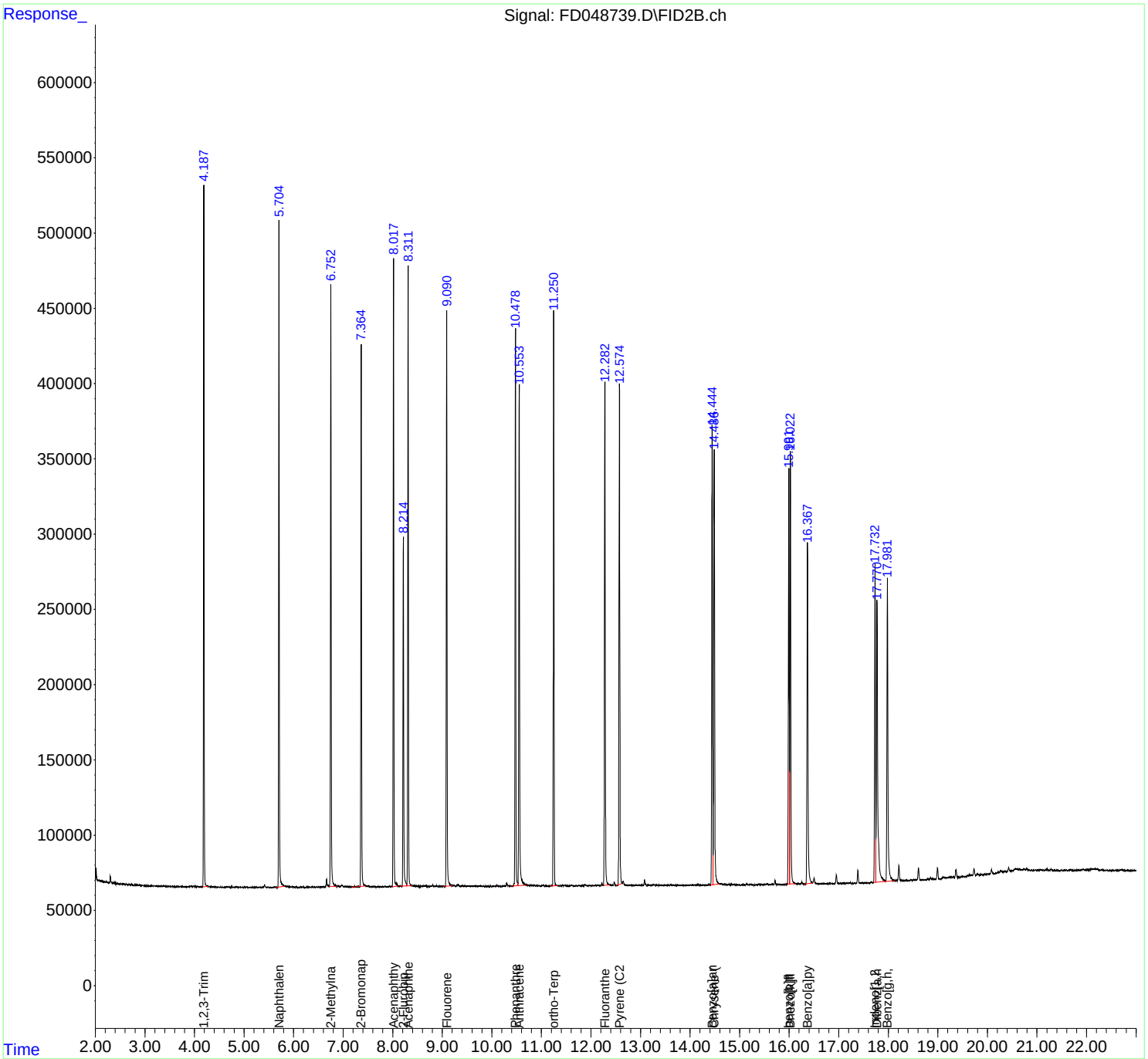
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048739.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 10:16
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: sample.E
Quant Time: Nov 16 09:48:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048739.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 10:16
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 111424.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	4.188	4.141	4.278	BB	465060	3940265	96.52%	5.261%
2	5.705	5.651	5.831	BB	440389	4038810	98.94%	5.393%
3	6.752	6.721	6.881	BB	398098	3961897	97.05%	5.290%
4	7.365	7.181	7.454	BB	360714	3601336	88.22%	4.809%
5	8.017	7.991	8.118	BB	417774	4082261	100.00%	5.451%
6	8.215	8.151	8.283	BV	231192	2386575	58.46%	3.187%
7	8.311	8.283	8.384	VB	408743	3985265	97.62%	5.321%
8	9.090	9.024	9.201	BB	383549	3981632	97.53%	5.317%
9	10.477	10.378	10.523	BV	370209	3846061	94.21%	5.136%
10	10.553	10.523	10.708	VB	333498	3867529	94.74%	5.164%
11	11.250	11.174	11.328	BB	380726	3999876	97.98%	5.341%
12	12.282	12.251	12.378	BB	332842	3820530	93.59%	5.101%
13	12.574	12.511	12.628	BV	332645	3770238	92.36%	5.034%
14	14.445	14.404	14.464	BV	304782	3481104	85.27%	4.648%
15	14.486	14.464	14.591	VB	288388	3639758	89.16%	4.860%
16	15.991	15.961	16.006	BV	276156	3317929	81.28%	4.430%
17	16.023	16.006	16.131	VB	288668	3418454	83.74%	4.565%
18	16.367	16.298	16.474	BV	226008	3100597	75.95%	4.140%
19	17.731	17.701	17.750	BV	210841	2534171	62.08%	3.384%
20	17.771	17.750	17.948	VV	187107	3236884	79.29%	4.322%
21	17.981	17.948	18.134	VB	201467	2879805	70.54%	3.845%
			Sum of corrected areas:			74890978		

Aromatic EPH 111424.M Sat Nov 16 10:25:03 2024

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Continuing Calibration Report for SequenceID : FD111524AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048754.D**						
Aromatic C10-C12	7741682.000	40.000	4.088	5.805	193542.050	192017.544	-0.794
Aromatic C12-C16	11683206.000	60.000	5.806	8.411	194720.100	192458.977	-1.175
Aromatic C16-C21	14938916.000	80.000	8.412	12.674	186736.450	185804.816	-0.501
Aromatic C21-C36	28774591.000	180.000	12.675	18.081	159858.839	157231.056	-1.671
Aromatic EPH	63138395.000	360.000	4.088	18.081	175384.431	173317.266	-1.193

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	15 Nov 2024 21:22
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048754.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	7741682.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	11683206.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	14938916.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	28774591.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	63138395.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048754.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:22
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 16 09:53:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.366	3533091	20.068 ug/ml
Spiked Amount	50.000		Recovery =	40.14%
6) S	2-Flurobiphenyl (SURR)	8.217	2319349	20.138 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.28%
11) S	ortho-Terphenyl (SURR)	11.251	3870987	20.126 ug/ml
Spiked Amount	50.000		Recovery =	40.25%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	3819372	20.266 ug/ml
2) T	Naphthalene (C11.7)	5.706	3922310	20.055 ug/ml
3) T	2-Methylnaphthalene (...	6.753	3851130	20.152 ug/ml
5) T	Acenaphthylene (C15.06)	8.019	3950298	20.370 ug/ml
7) T	Acenaphthene (C15.5)	8.313	3881778	20.181 ug/ml
8) T	Flouorene (C16.55)	9.091	3867584	20.159 ug/ml
9) T	Phenanthrene (C19.36)	10.479	3715259	20.268 ug/ml
10) T	Anthracene (C19.43)	10.554	3706862	19.794 ug/ml
12) T	Fluoranthene (C21.85)	12.283	3714946	20.287 ug/ml
13) T	Pyrene (C20.8)	12.576	3649211	20.184 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	3352054	20.377 ug/ml
15) T	Chrysene (C27.41)	14.487	3556734	20.323 ug/ml
16) T	benzo[b]fluoranthene ...	15.992	3239822	20.620 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	3320225	20.345 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.369	3013429	20.211 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	2467462	19.975 ug/ml
20) T	Dibenz[a,h]anthracene...	17.773	3232653	20.615 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	2877266	20.165 ug/ml

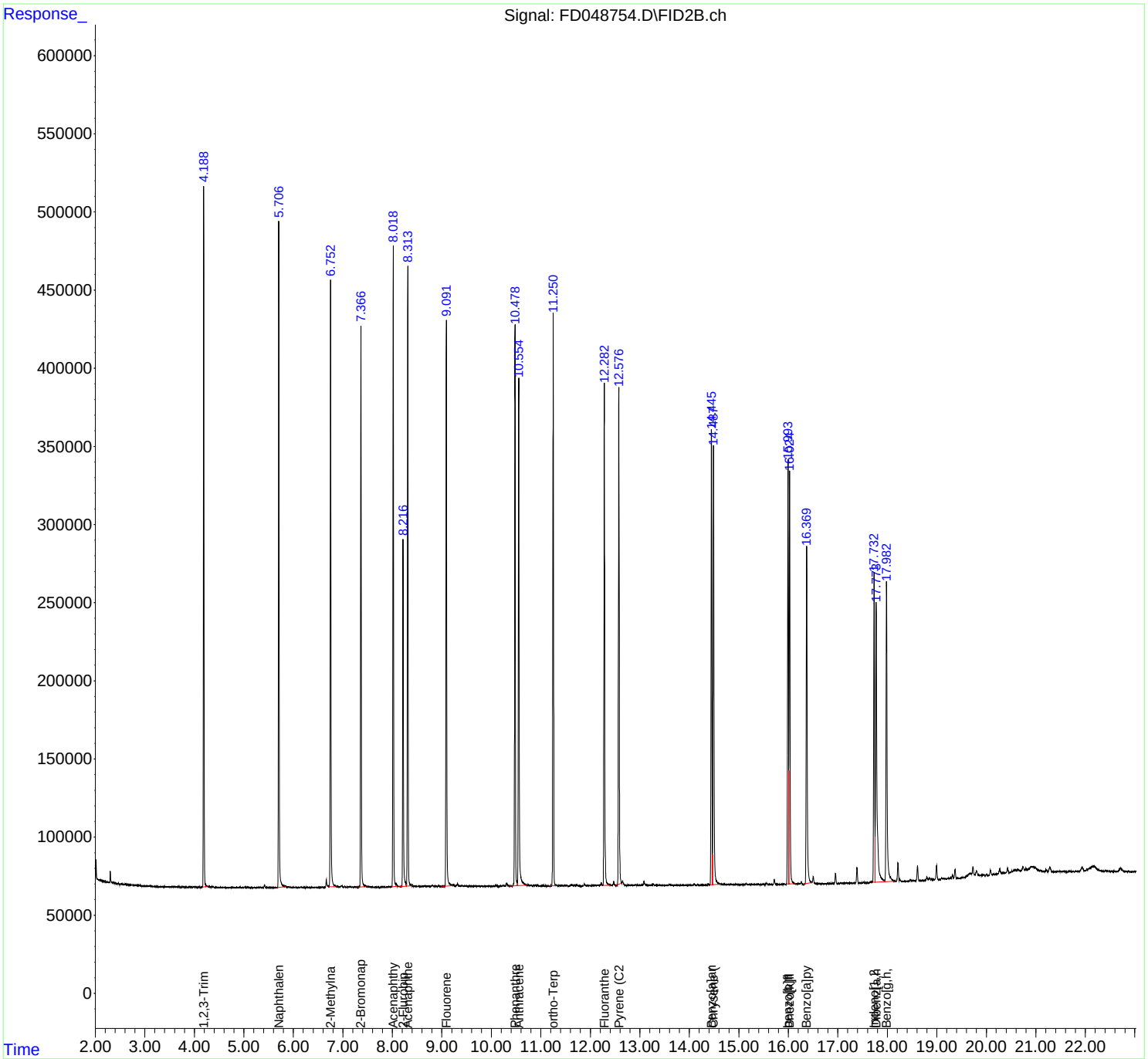
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048754.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:22
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 16 09:53:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048754.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 21:22
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.189	4.141	4.261	BB	444850	3817562	96.64%	5.240%
2	5.706	5.651	5.844	BB	421346	3922310	99.29%	5.383%
3	6.753	6.711	6.878	BB	383899	3851130	97.49%	5.286%
4	7.366	7.291	7.478	BB	357573	3533091	89.44%	4.849%
5	8.019	7.991	8.114	BB	405985	3950298	100.00%	5.422%
6	8.217	8.138	8.283	BV	221863	2319349	58.71%	3.183%
7	8.313	8.283	8.404	VB	397833	3881778	98.27%	5.328%
8	9.091	9.004	9.221	BB	361695	3867584	97.91%	5.308%
9	10.479	10.368	10.526	BV	358203	3715259	94.05%	5.099%
10	10.554	10.526	10.714	VB	324098	3706862	93.84%	5.088%
11	11.251	11.161	11.324	BB	366924	3870987	97.99%	5.313%
12	12.283	12.244	12.424	PB	323317	3714946	94.04%	5.099%
13	12.576	12.511	12.633	BV	315899	3649211	92.38%	5.009%
14	14.445	14.411	14.465	BV	292065	3352054	84.86%	4.601%
15	14.487	14.465	14.624	VB	282375	3556734	90.04%	4.882%
16	15.992	15.961	16.008	BV	269348	3239822	82.01%	4.447%
17	16.023	16.008	16.144	VB	266617	3320225	84.05%	4.557%
18	16.369	16.298	16.474	BV	214733	3013429	76.28%	4.136%
19	17.732	17.701	17.752	BV	197011	2467462	62.46%	3.387%
20	17.773	17.752	17.948	VV	180097	3232653	81.83%	4.437%
21	17.982	17.948	18.151	VB	192640	2877266	72.84%	3.949%
			Sum of corrected areas:			72860013		

Aromatic EPH 111424.M Sat Nov 16 10:26:46 2024

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Continuing Calibration Report for SequenceID : FD111824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048757.D**						
Aromatic C10-C12	8631046.000	40.000	4.088	5.805	215776.150	192017.544	-12.373
Aromatic C12-C16	12868534.000	60.000	5.806	8.411	214475.567	192458.977	-11.440
Aromatic C16-C21	16327633.000	80.000	8.412	12.674	204095.413	185804.816	-9.844
Aromatic C21-C36	31581408.000	180.000	12.675	18.081	175452.267	157231.056	-11.589
Aromatic EPH	69408621.000	360.000	4.088	18.081	192801.725	173317.266	-11.242

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:	18 Nov 2024 08:49
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048757.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	8631046.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	12868534.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	16327633.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	31581408.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	69408621.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048757.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 08:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.365	3864258	21.949 ug/ml
Spiked Amount	50.000		Recovery =	43.90%
6) S	2-Flurobiphenyl (SURR)	8.215	2550819	22.148 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	44.30%
11) S	ortho-Terphenyl (SURR)	11.249	4252381	22.109 ug/ml
Spiked Amount	50.000		Recovery =	44.22%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.188	4269062	22.652 ug/ml
2) T	Naphthalene (C11.7)	5.705	4361984	22.304 ug/ml
3) T	2-Methylnaphthalene (...	6.752	4258994	22.286 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	4347374	22.418 ug/ml
7) T	Acenaphthene (C15.5)	8.311	4262166	22.159 ug/ml
8) T	Flouorene (C16.55)	9.090	4250474	22.155 ug/ml
9) T	Phenanthrene (C19.36)	10.477	4069911	22.203 ug/ml
10) T	Anthracene (C19.43)	10.553	4014865	21.439 ug/ml
12) T	Fluoranthene (C21.85)	12.281	4104132	22.412 ug/ml
13) T	Pyrene (C20.8)	12.574	3992383	22.083 ug/ml
14) T	Benzo[a]anthracene (C...	14.444	3698445	22.483 ug/ml
15) T	Chrysene (C27.41)	14.486	3850730	22.002 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3516932	22.384 ug/mlm
17) T	Bnezo[k]fluoranthene ...	16.022	3782863	23.180 ug/mlm
18) T	Benzo[a]pyrene (C31.34)	16.367	3319405	22.263 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.731	2680453	21.699 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	3533401	22.532 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.981	3095047	21.691 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048757.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 08:49
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

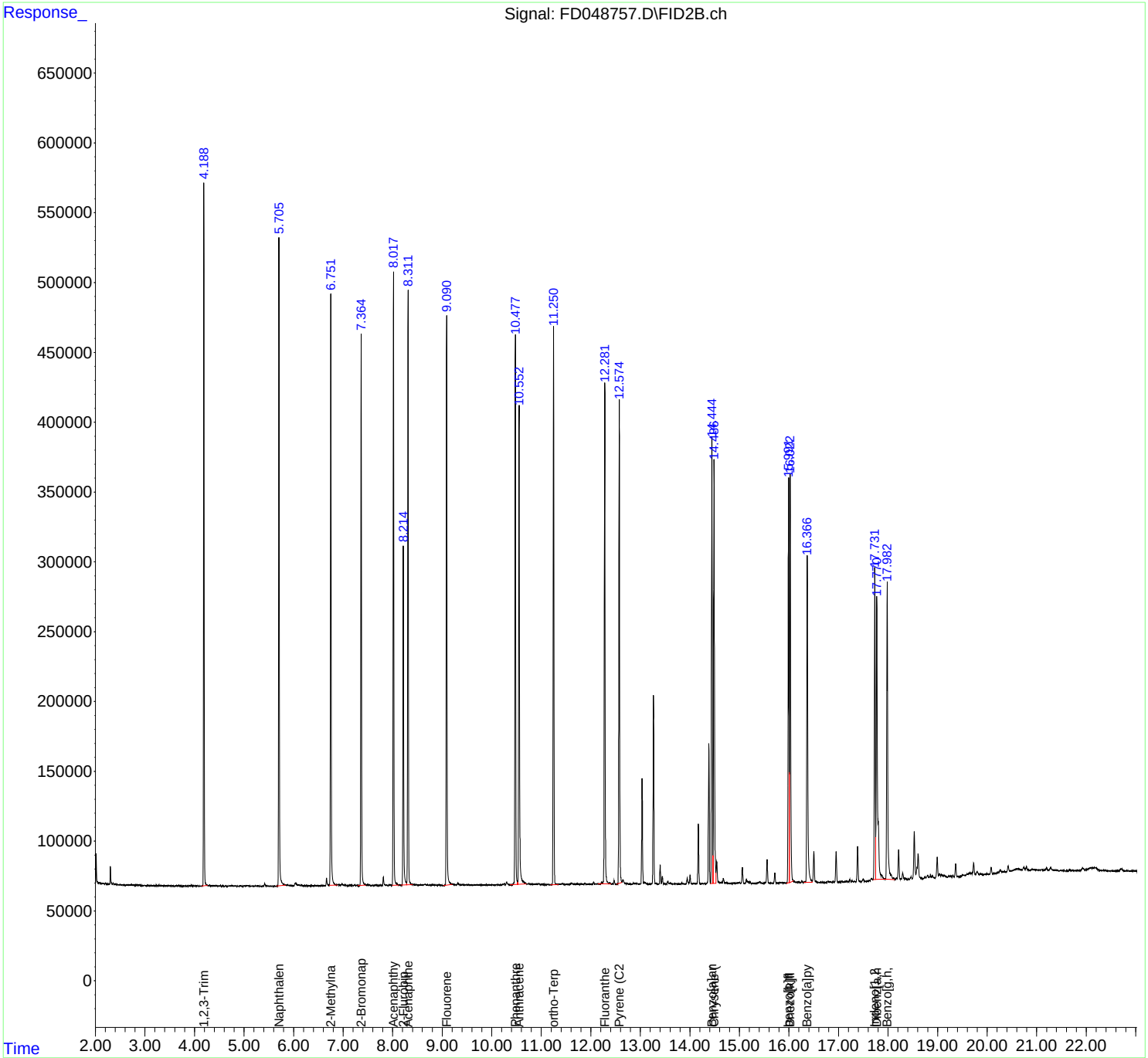
Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048757.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 08:49
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 111424.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	4.188	4.141	4.264	BB	500945	4269062	97.87%	5.335%
2	5.705	5.651	5.841	BB	461881	4361984	100.00%	5.451%
3	6.752	6.718	6.878	BV	421069	4258994	97.64%	5.323%
4	7.365	7.301	7.461	BB	395389	3864258	88.59%	4.829%
5	8.017	7.991	8.128	BB	439454	4347374	99.67%	5.433%
6	8.215	8.161	8.284	BV	242551	2550819	58.48%	3.188%
7	8.311	8.284	8.408	VB	425204	4262166	97.71%	5.327%
8	9.090	9.024	9.204	BB	409963	4250474	97.44%	5.312%
9	10.477	10.371	10.523	BV	392924	4069911	93.30%	5.086%
10	10.553	10.523	10.701	VB	340033	4014865	92.04%	5.018%
11	11.249	11.181	11.344	BB	405231	4252381	97.49%	5.314%
12	12.281	12.138	12.404	BB	359877	4104132	94.09%	5.129%
13	12.574	12.514	12.629	BV	348189	3992383	91.53%	4.989%
14	14.444	14.411	14.464	PV	321742	3698445	84.79%	4.622%
15	14.486	14.464	14.524	VV	298970	3850730	88.28%	4.812%
16	15.991	15.958	16.004	M	289952	3422466	78.46%	4.277%
17	16.022	16.005	16.097	M	292418	3816996	87.51%	4.770%
18	16.367	16.298	16.468	BV	233680	3319405	76.10%	4.148%
19	17.731	17.701	17.750	BV	223035	2680453	61.45%	3.350%
20	17.771	17.750	17.948	VB	202888	3533401	81.00%	4.416%
21	17.981	17.948	18.138	BV	212689	3095047	70.96%	3.868%
			Sum of corrected areas:			80015745		

Aromatic EPH 111424.M Tue Nov 19 06:13:08 2024

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

Continuing Calibration Report for SequenceID : FD111824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048765.D**						
Aromatic C10-C12	7925969.000	40.000	4.088	5.805	198149.225	192017.544	-3.193
Aromatic C12-C16	11827424.000	60.000	5.806	8.411	197123.733	192458.977	-2.424
Aromatic C16-C21	14986986.000	80.000	8.412	12.674	187337.325	185804.816	-0.825
Aromatic C21-C36	28594859.000	180.000	12.675	18.081	158860.328	157231.056	-1.036
Aromatic EPH	63335238.000	360.000	4.088	18.081	175931.217	173317.266	-1.508

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:	18 Nov 2024 14:50
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048765.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	7925969.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	11827424.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	14986986.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	28594859.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	63335238.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048765.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 05:55:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.364	3556539	20.201 ug/ml
Spiked Amount	50.000		Recovery =	40.40%
6) S	2-Flurobiphenyl (SURR)	8.214	2354468	20.443 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.89%
11) S	ortho-Terphenyl (SURR)	11.251	3916513	20.363 ug/ml
Spiked Amount	50.000		Recovery =	40.73%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.188	3920054	20.800 ug/ml
2) T	Naphthalene (C11.7)	5.705	4005915	20.483 ug/ml
3) T	2-Methylnaphthalene (...	6.751	3914147	20.482 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	3984402	20.546 ug/ml
7) T	Acenaphthene (C15.5)	8.311	3928875	20.426 ug/ml
8) T	Flouorene (C16.55)	9.090	3907781	20.369 ug/ml
9) T	Phenanthrene (C19.36)	10.477	3752894	20.474 ug/ml
10) T	Anthracene (C19.43)	10.553	3667901	19.586 ug/ml
12) T	Fluoranthene (C21.85)	12.281	3762981	20.549 ug/ml
13) T	Pyrene (C20.8)	12.575	3658410	20.235 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	3379117	20.541 ug/ml
15) T	Chrysene (C27.41)	14.486	3529051	20.164 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3161804	20.124 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	3424577	20.984 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	2978912	19.980 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.732	2460908	19.922 ug/ml
20) T	Dibenz[a,h]anthracene...	17.772	3185393	20.313 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.983	2712116	19.008 ug/ml

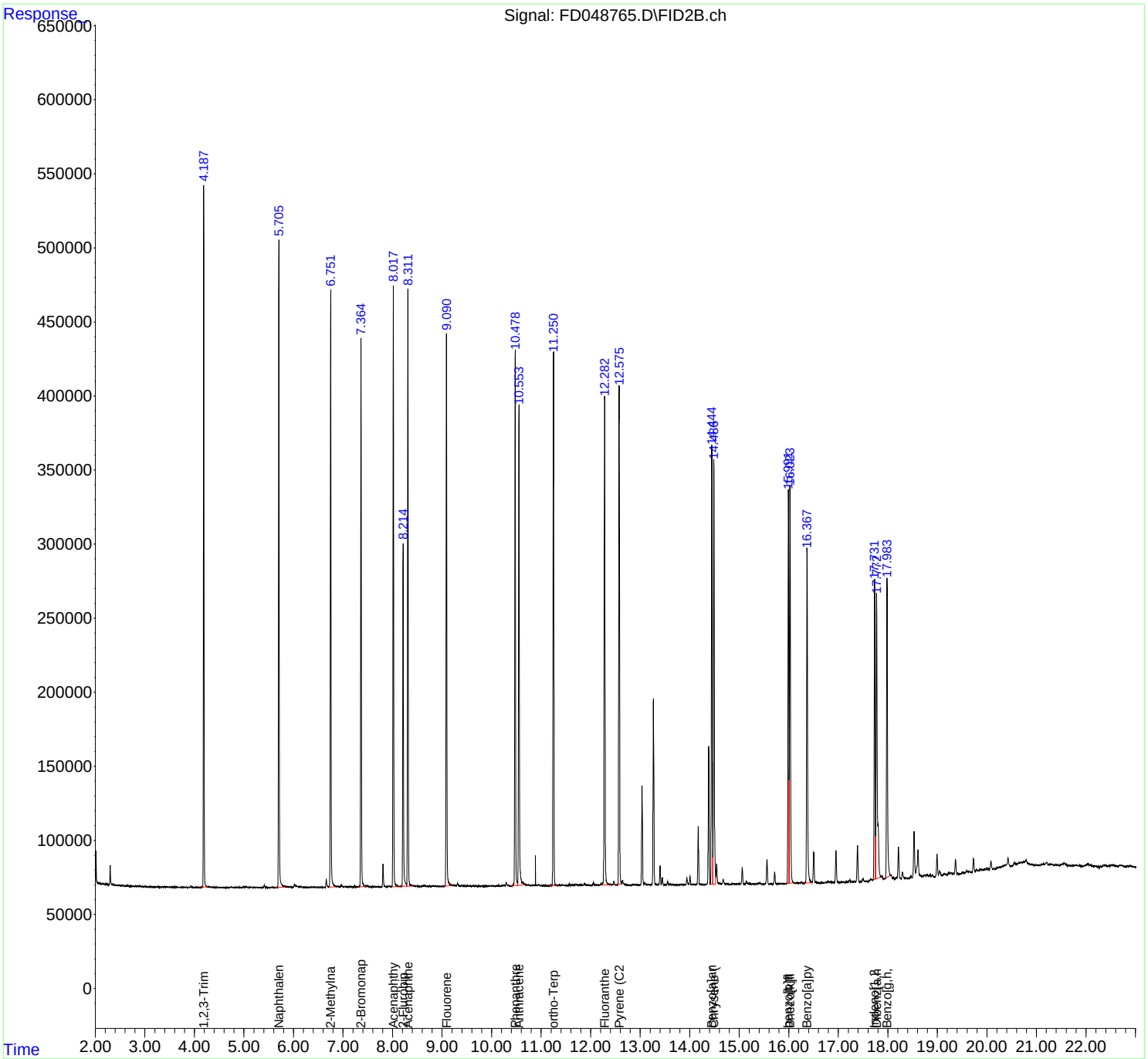
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048765.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 05:55:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048765.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 14:50
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.188	4.141	4.271	BB	471623	3920054	97.86%	5.358%
2	5.705	5.628	5.838	BB	434723	4005915	100.00%	5.475%
3	6.751	6.714	6.871	PB	402254	3914147	97.71%	5.350%
4	7.364	7.301	7.464	BB	368807	3556539	88.78%	4.861%
5	8.017	7.991	8.108	BB	404019	3984402	99.46%	5.446%
6	8.214	8.138	8.284	BV	231241	2354468	58.77%	3.218%
7	8.311	8.284	8.408	VB	403355	3928875	98.08%	5.370%
8	9.090	9.018	9.201	BB	374744	3907781	97.55%	5.341%
9	10.477	10.371	10.524	BV	362404	3752894	93.68%	5.130%
10	10.553	10.524	10.678	VB	323653	3667901	91.56%	5.013%
11	11.251	11.174	11.321	BB	361289	3916513	97.77%	5.353%
12	12.281	12.236	12.421	VB	329195	3762981	93.94%	5.143%
13	12.575	12.508	12.623	BV	334200	3658410	91.33%	5.000%
14	14.445	14.413	14.464	PV	296593	3379117	84.35%	4.619%
15	14.486	14.464	14.523	VV	286852	3529051	88.10%	4.824%
16	15.991	15.961	16.007	BV	265342	3161804	78.93%	4.322%
17	16.023	16.007	16.111	VB	266641	3424577	85.49%	4.681%
18	16.368	16.291	16.458	BV	225980	2978912	74.36%	4.072%
19	17.732	17.701	17.751	BV	202897	2460908	61.43%	3.364%
20	17.772	17.751	17.864	VV	190662	3185393	79.52%	4.354%
21	17.983	17.928	18.054	BV	199910	2712116	67.70%	3.707%
			Sum of corrected areas:			73162758		

Aromatic EPH 111424.M Tue Nov 19 06:15:58 2024

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

Continuing Calibration Report for SequenceID : FD111824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048777.D**						
Aromatic C10-C12	8114088.000	40.000	4.088	5.805	202852.200	192017.544	-5.643
Aromatic C12-C16	12005896.000	60.000	5.806	8.411	200098.267	192458.977	-3.969
Aromatic C16-C21	15169934.000	80.000	8.412	12.674	189624.175	185804.816	-2.056
Aromatic C21-C36	28504747.000	180.000	12.675	18.081	158359.706	157231.056	-0.718
Aromatic EPH	63794665.000	360.000	4.088	18.081	177207.403	173317.266	-2.245

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:	19 Nov 2024 10:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048777.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	8114088.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	12005896.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	15169934.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	28504747.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	63794665.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048777.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:04
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: sample.E
Quant Time: Nov 19 11:00:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.363	3623936	20.584 ug/ml
	Spiked Amount 50.000		Recovery =	41.17%
6)	S 2-Flurobiphenyl (SURR)	8.214	2381527	20.678 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	41.36%
11)	S ortho-Terphenyl (SURR)	11.250	3963181	20.606 ug/ml
	Spiked Amount 50.000		Recovery =	41.21%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.186	4019346	21.327 ug/ml
2)	T Naphthalene (C11.7)	5.703	4094742	20.937 ug/ml
3)	T 2-Methylnaphthalene (...	6.750	3995141	20.905 ug/ml
5)	T Acenaphthylene (C15.06)	8.017	4040322	20.834 ug/ml
7)	T Acenaphthene (C15.5)	8.311	3970433	20.642 ug/ml
8)	T Flouorene (C16.55)	9.089	3967991	20.682 ug/ml
9)	T Phenanthrene (C19.36)	10.477	3818348	20.831 ug/ml
10)	T Anthracene (C19.43)	10.553	3672924	19.613 ug/ml
12)	T Fluoranthene (C21.85)	12.281	3810231	20.807 ug/ml
13)	T Pyrene (C20.8)	12.574	3710671	20.524 ug/ml
14)	T Benzo[a]anthracene (C...	14.445	3436154	20.888 ug/ml
15)	T Chrysene (C27.41)	14.486	3608190	20.617 ug/ml
16)	T benzo[b]fluoranthene ...	15.992	3202884	20.385 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.024	3497339	21.430 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.368	2988445	20.044 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.733	2485949	20.124 ug/ml
20)	T Dibenz[a,h]anthracene...	17.771	2737762	17.459 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.983	2737793	19.187 ug/ml

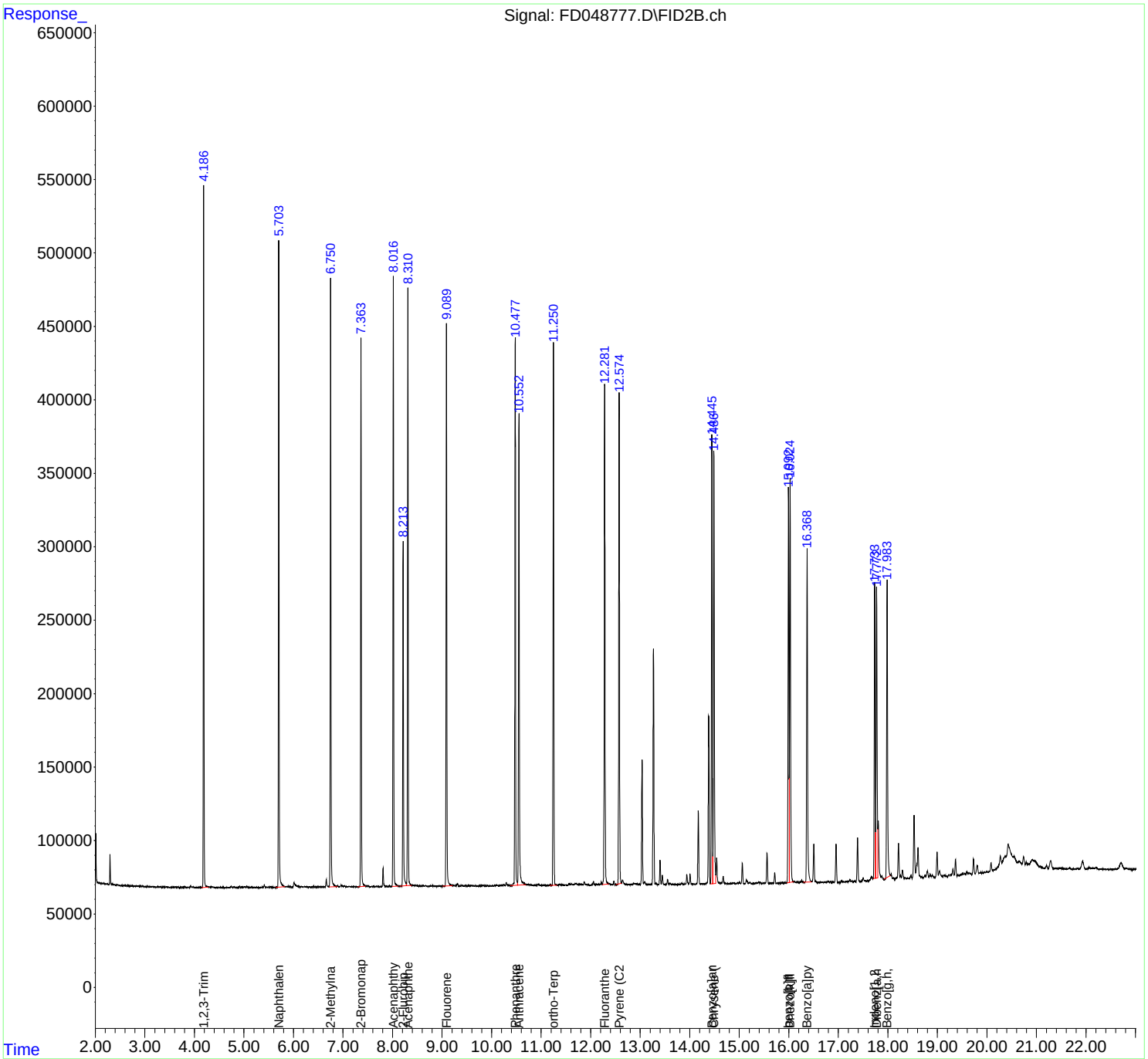
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048777.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:04
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: sample.E
Quant Time: Nov 19 11:00:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048777.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 10:04
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 111424.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	4.186	4.141	4.278	BB	474938	4019346	98.16%	5.449%
2	5.703	5.641	5.831	BB	435987	4094742	100.00%	5.551%
3	6.750	6.718	6.881	PB	415462	3995141	97.57%	5.416%
4	7.363	7.294	7.458	BB	373199	3623936	88.50%	4.913%
5	8.017	7.991	8.118	BB	414541	4040322	98.67%	5.477%
6	8.214	8.144	8.281	BV	233376	2381527	58.16%	3.229%
7	8.311	8.281	8.391	VB	407129	3970433	96.96%	5.383%
8	9.089	9.008	9.204	BB	379770	3967991	96.90%	5.379%
9	10.477	10.374	10.523	BV	373417	3818348	93.25%	5.176%
10	10.553	10.523	10.694	VB	319259	3672924	89.70%	4.979%
11	11.250	11.178	11.324	BB	369840	3963181	96.79%	5.373%
12	12.281	12.234	12.361	PB	340696	3810231	93.05%	5.165%
13	12.574	12.504	12.623	BV	335118	3710671	90.62%	5.031%
14	14.445	14.413	14.465	PV	303187	3436154	83.92%	4.658%
15	14.486	14.465	14.524	VV	295175	3608190	88.12%	4.892%
16	15.992	15.961	16.007	BV	264177	3202884	78.22%	4.342%
17	16.024	16.007	16.101	VB	275058	3497339	85.41%	4.741%
18	16.368	16.288	16.454	BV	226604	2988445	72.98%	4.051%
19	17.733	17.701	17.751	BV	201090	2485949	60.71%	3.370%
20	17.771	17.751	17.796	VV	197415	2737762	66.86%	3.712%
21	17.983	17.921	18.050	BV	203222	2737793	66.86%	3.712%
			Sum of corrected areas:			73763309		

Aromatic EPH 111424.M Tue Nov 19 11:04:36 2024

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

Continuing Calibration Report for SequenceID : FD111824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048780.D**						
Aromatic C10-C12	8154443.000	40.000	4.088	5.805	203861.075	192017.544	-6.168
Aromatic C12-C16	12059712.000	60.000	5.806	8.411	200995.200	192458.977	-4.435
Aromatic C16-C21	15225694.000	80.000	8.412	12.674	190321.175	185804.816	-2.431
Aromatic C21-C36	29380056.000	180.000	12.675	18.081	163222.533	157231.056	-3.811
Aromatic EPH	64819905.000	360.000	4.088	18.081	180055.292	173317.266	-3.888

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:	19 Nov 2024 11:54
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048780.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	8154443.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	12059712.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	15225694.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	29380056.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	64819905.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048780.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 13:02:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.365	3642061	20.687 ug/ml
Spiked Amount	50.000		Recovery =	41.37%
6) S	2-Flurobiphenyl (SURR)	8.215	2398970	20.830 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	41.66%
11) S	ortho-Terphenyl (SURR)	11.250	3990974	20.750 ug/ml
Spiked Amount	50.000		Recovery =	41.50%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.188	4041624	21.445 ug/ml
2) T	Naphthalene (C11.7)	5.705	4112819	21.030 ug/ml
3) T	2-Methylnaphthalene (...	6.751	3992712	20.893 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	4058595	20.929 ug/ml
7) T	Acenaphthene (C15.5)	8.311	4008405	20.840 ug/ml
8) T	Flouorene (C16.55)	9.090	3986485	20.779 ug/ml
9) T	Phenanthrene (C19.36)	10.477	3833784	20.915 ug/ml
10) T	Anthracene (C19.43)	10.553	3668404	19.589 ug/ml
12) T	Fluoranthene (C21.85)	12.282	3831327	20.922 ug/ml
13) T	Pyrene (C20.8)	12.574	3737021	20.670 ug/ml
14) T	Benzo[a]anthracene (C...	14.445	3470975	21.100 ug/ml
15) T	Chrysene (C27.41)	14.486	3645904	20.832 ug/ml
16) T	benzo[b]fluoranthene ...	15.992	3243393	20.643 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	3567715	21.861 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.368	3048141	20.444 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.733	2512963	20.343 ug/ml
20) T	Dibenz[a,h]anthracene...	17.771	3289917	20.980 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.982	2769721	19.411 ug/ml

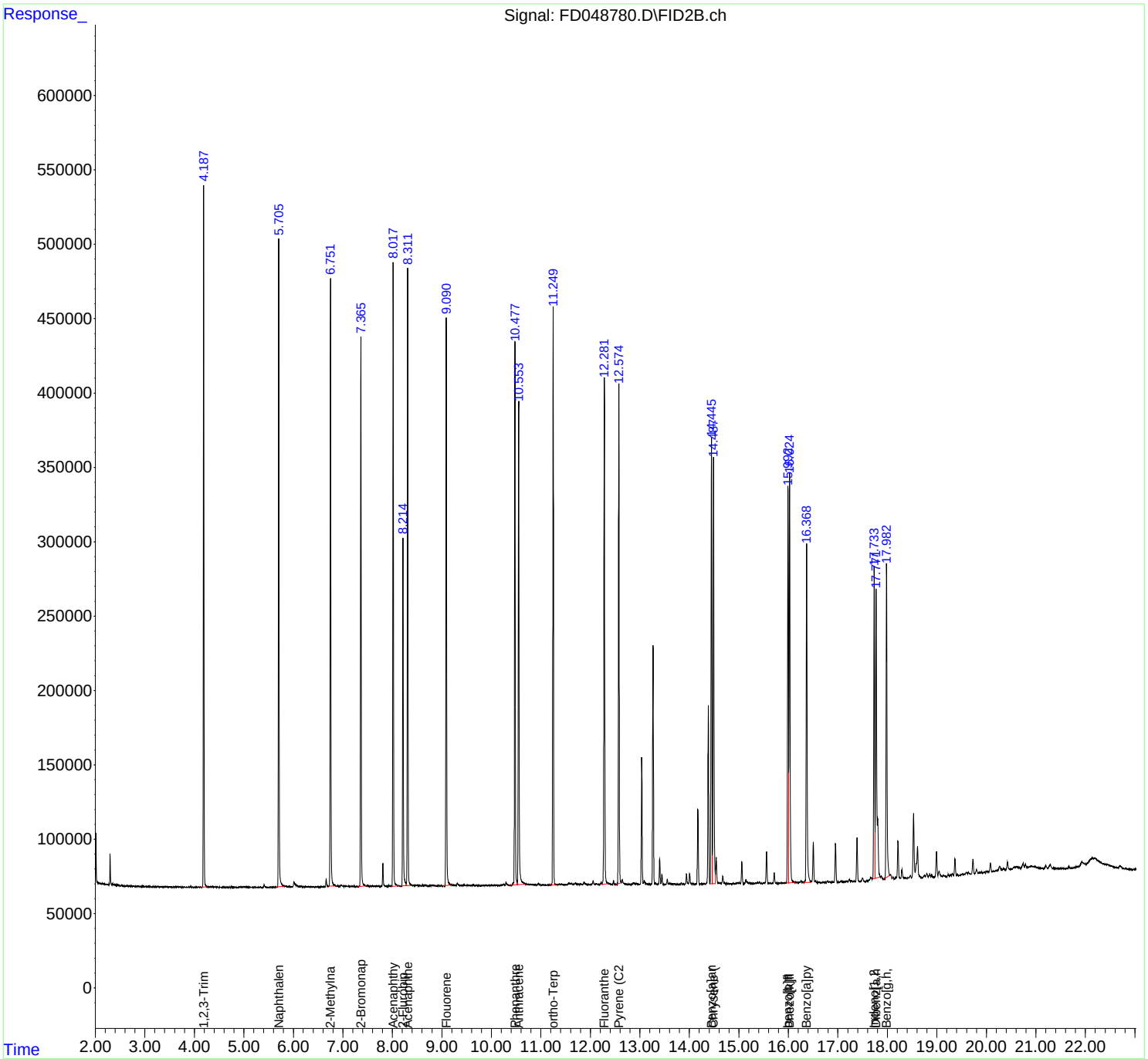
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048780.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:54
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: sample.E
Quant Time: Nov 19 13:02:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048780.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 11:54
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.188	4.141	4.261	BB	469665	4041624	98.27%	5.399%
2	5.705	5.641	5.825	BB	435482	4112819	100.00%	5.495%
3	6.751	6.705	6.868	BB	408210	3992712	97.08%	5.334%
4	7.365	7.301	7.468	BB	369645	3642061	88.55%	4.866%
5	8.017	7.991	8.118	BB	419847	4058595	98.68%	5.422%
6	8.215	8.151	8.281	BV	232976	2398970	58.33%	3.205%
7	8.311	8.281	8.405	VB	414665	4008405	97.46%	5.355%
8	9.090	9.011	9.198	BB	382420	3986485	96.93%	5.326%
9	10.477	10.371	10.524	BV	366342	3833784	93.22%	5.122%
10	10.553	10.524	10.688	VB	325915	3668404	89.19%	4.901%
11	11.250	11.168	11.331	BB	386436	3990974	97.04%	5.332%
12	12.282	12.235	12.368	PB	339578	3831327	93.16%	5.119%
13	12.574	12.511	12.624	BV	337406	3737021	90.86%	4.993%
14	14.445	14.413	14.464	PV	300003	3470975	84.39%	4.637%
15	14.487	14.464	14.523	VV	288510	3645904	88.65%	4.871%
16	15.992	15.961	16.007	BV	266467	3243393	78.86%	4.333%
17	16.023	16.007	16.135	VB	277575	3567715	86.75%	4.766%
18	16.368	16.291	16.455	BV	226579	3048141	74.11%	4.072%
19	17.733	17.701	17.751	BV	208386	2512963	61.10%	3.357%
20	17.771	17.751	17.861	VV	194368	3289917	79.99%	4.395%
21	17.982	17.925	18.052	BV	209480	2769721	67.34%	3.700%
			Sum of corrected areas:			74851910		

Aromatic EPH 111424.M Tue Nov 19 13:04:16 2024

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Continuing Calibration Report for SequenceID : FD111824AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FD048783.D**						
Aromatic C10-C12	8433654.000	40.000	4.088	5.805	210841.350	192017.544	-9.803
Aromatic C12-C16	12609540.000	60.000	5.806	8.411	210159.000	192458.977	-9.197
Aromatic C16-C21	15976608.000	80.000	8.412	12.674	199707.600	185804.816	-7.482
Aromatic C21-C36	30236202.000	180.000	12.675	18.081	167978.900	157231.056	-6.836
Aromatic EPH	67256004.000	360.000	4.088	18.081	186822.233	173317.266	-7.792

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	19 Nov 2024 15:36
Client Sample ID:		Operator:	YP/AJ
Data file:	FD048783.D	Misc:	
Instrument:	FID_D	ALS Vial:	52
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.088	5.805	8433654.000	40.000	ug/ml
Aromatic C12-C16	5.806	8.411	12609540.000	60.000	ug/ml
Aromatic C16-C21	8.412	12.674	15976608.000	80.000	ug/ml
Aromatic C21-C36	12.675	18.081	30236202.000	180.000	ug/ml
Aromatic EPH	4.088	18.081	67256004.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048783.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 15:36
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 19 16:10:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.364	3800493	21.587 ug/ml
Spiked Amount	50.000		Recovery =	43.17%
6) S	2-Flurobiphenyl (SURR)	8.214	2532635	21.990 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	43.98%
11) S	ortho-Terphenyl (SURR)	11.250	4194696	21.809 ug/ml
Spiked Amount	50.000		Recovery =	43.62%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.187	4156399	22.054 ug/ml
2) T	Naphthalene (C11.7)	5.704	4277255	21.870 ug/ml
3) T	2-Methylnaphthalene (...	6.751	4163436	21.786 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	4245361	21.892 ug/ml
7) T	Acenaphthene (C15.5)	8.311	4200743	21.840 ug/ml
8) T	Flouorene (C16.55)	9.090	4199714	21.890 ug/ml
9) T	Phenanthrene (C19.36)	10.477	4028165	21.975 ug/ml
10) T	Anthracene (C19.43)	10.552	3846568	20.540 ug/ml
12) T	Fluoranthene (C21.85)	12.281	4040121	22.062 ug/ml
13) T	Pyrene (C20.8)	12.574	3902161	21.584 ug/ml
14) T	Benzo[a]anthracene (C...	14.444	3600806	21.889 ug/ml
15) T	Chrysene (C27.41)	14.485	3774340	21.566 ug/ml
16) T	benzo[b]fluoranthene ...	15.991	3325327	21.165 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.023	3667833	22.475 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.367	3102223	20.807 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.731	2566069	20.773 ug/ml
20) T	Dibenz[a,h]anthracene...	17.770	3357321	21.410 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.981	2802162	19.639 ug/ml

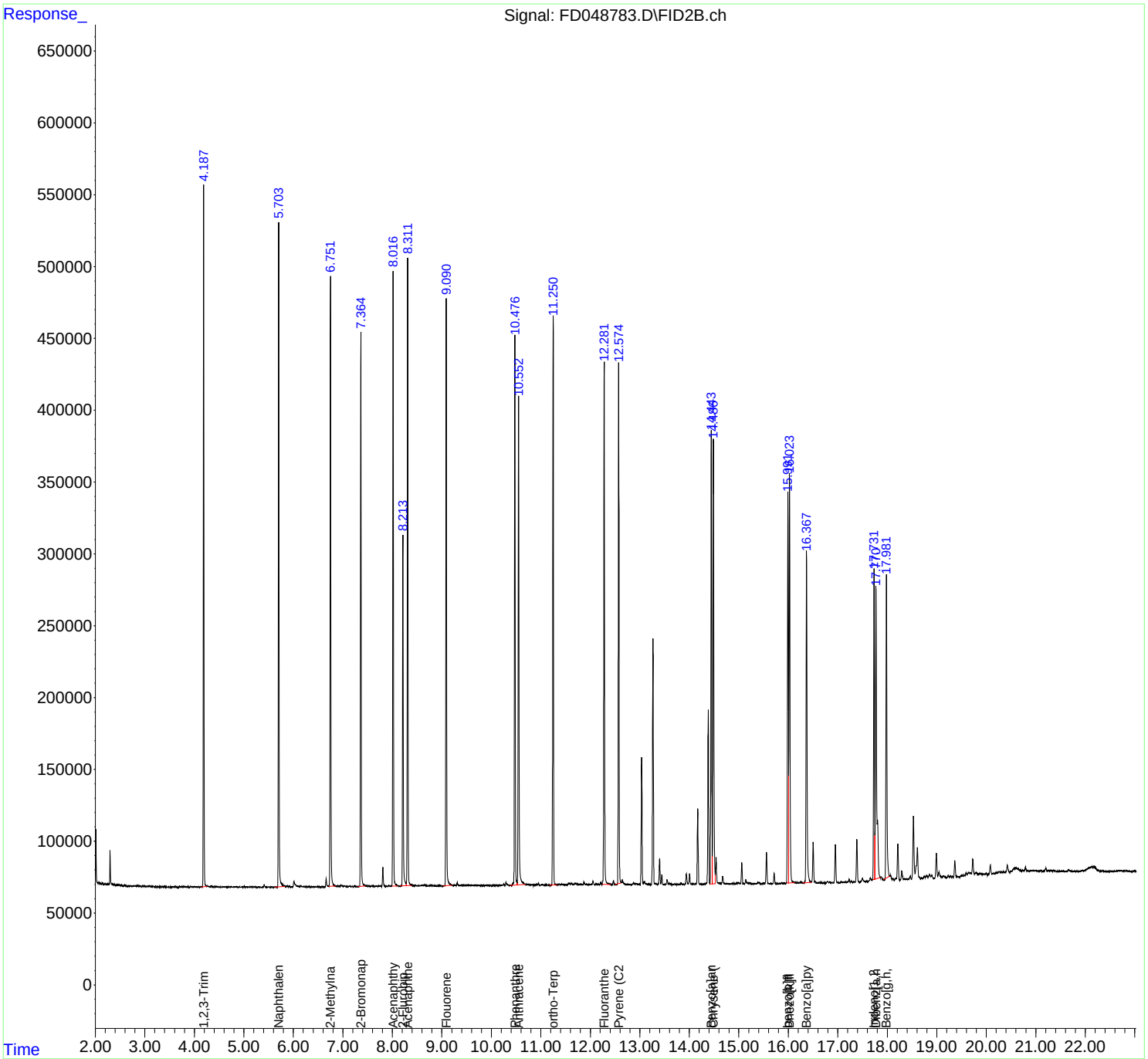
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048783.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 15:36
Operator : YP/AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 19 16:10:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048783.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 15:36
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 111424.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	4.187	4.141	4.261	BB	486034	4156399	97.17%	5.344%
2	5.704	5.624	5.834	BB	460410	4277255	100.00%	5.499%
3	6.751	6.714	6.858	BB	424109	4163436	97.34%	5.353%
4	7.364	7.294	7.458	BB	385657	3800493	88.85%	4.886%
5	8.017	7.991	8.111	BB	426504	4245361	99.25%	5.458%
6	8.214	8.154	8.284	BV	243900	2532635	59.21%	3.256%
7	8.311	8.284	8.401	VB	437486	4200743	98.21%	5.401%
8	9.090	9.021	9.214	BB	407813	4199714	98.19%	5.399%
9	10.477	10.371	10.523	BV	380678	4028165	94.18%	5.179%
10	10.552	10.523	10.694	VB	337858	3846568	89.93%	4.945%
11	11.250	11.181	11.331	BB	398349	4194696	98.07%	5.393%
12	12.281	12.234	12.404	VB	363606	4040121	94.46%	5.194%
13	12.574	12.501	12.623	BV	361922	3902161	91.23%	5.017%
14	14.444	14.412	14.464	VV	315957	3600806	84.18%	4.629%
15	14.485	14.464	14.523	VV	306747	3774340	88.24%	4.852%
16	15.991	15.961	16.006	BV	271464	3325327	77.74%	4.275%
17	16.023	16.006	16.138	VB	285750	3667833	85.75%	4.715%
18	16.367	16.291	16.461	BV	230548	3102223	72.53%	3.988%
19	17.731	17.701	17.750	BV	215398	2566069	59.99%	3.299%
20	17.770	17.750	17.858	VV	203950	3357321	78.49%	4.316%
21	17.981	17.921	18.050	BV	209981	2802162	65.51%	3.603%
			Sum of corrected areas:			77783828		

Aromatic EPH 111424.M Tue Nov 19 16:12:32 2024

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

Continuing Calibration Report for SequenceID : FE111524AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051261.D**						
Aliphatic C9-C12	10149366.000	60.000	3.134	6.753	169156.100	139914.732	-20.899
Aliphatic C12-C16	6608362.000	40.000	6.754	10.185	165209.050	140635.568	-17.473
Aliphatic C16-C21	9525547.000	60.000	10.186	13.544	158759.117	137768.027	-15.237
Aliphatic C21-C28	12166198.000	80.000	13.545	17.200	152077.475	133951.574	-13.532
Aliphatic C28-C40	17018018.000	120.000	17.201	22.043	141816.817	128748.418	-10.150
Aliphatic EPH	55467491.000	360.000	3.134	22.043	154076.364	134589.790	-14.478

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:	15 Nov 2024 13:17
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051261.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.134	6.753	10149366.000	60.000	ug/ml
Aliphatic C12-C16	6.754	10.185	6608362.000	40.000	ug/ml
Aliphatic C16-C21	10.186	13.544	9525547.000	60.000	ug/ml
Aliphatic C21-C28	13.545	17.200	12166198.000	80.000	ug/ml
Aliphatic C28-C40	17.201	22.043	17018018.000	120.000	ug/ml
Aliphatic EPH	3.134	22.043	55467491.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051261.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 13:17
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 08:17:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.846	3446527	22.962 ug/ml
Spiked Amount	50.000		Recovery =	45.92%
12)	S 1-chlorooctadecane (S...	13.278	2598200	22.885 ug/ml
Spiked Amount	50.000		Recovery =	45.77%
	Target Compounds			
1)	T n-Nonane (C9)	3.238	3363280	24.307 ug/ml
2)	T n-Decane (C10)	4.486	3394712	24.217 ug/ml
3)	T A~Naphthalene (C11.7)	6.198	3180028	24.119 ug/ml
4)	T n-Dodecane (C12)	6.652	3391374	24.019 ug/ml
5)	T A~2-methylnaphthalene...	7.294	2966797	23.716 ug/ml
6)	T n-Tetradecane (C14)	8.478	3291891	23.621 ug/ml
7)	T n-Hexadecane (C16)	10.084	3316471	23.371 ug/ml
8)	T n-Octadecane (C18)	11.525	3317559	23.231 ug/ml
10)	T n-Eicosane (C20)	12.832	3145232	22.982 ug/ml
11)	T n-Heneicosane (C21)	13.443	3062756	22.917 ug/ml
13)	T n-Docosane (C22)	14.028	3045948	22.910 ug/ml
14)	T n-Tetracosane (C24)	15.130	3031089	22.849 ug/ml
15)	T n-Hexacosane (C26)	16.149	3031944	22.649 ug/ml
16)	T n-Octacosane (C28)	17.097	3057217	22.425 ug/ml
17)	T n-Tricontane (C30)	17.985	3236623	22.277 ug/ml
18)	T n-Dotriacontane (C32)	18.815	3311001	22.299 ug/ml
19)	T n-Tetratriacontane (C34)	19.598	3069831	22.847 ug/ml
20)	T n-Hexatriacontane (C36)	20.338	2738861	22.954 ug/ml
21)	T n-Octatriacontane (C38)	21.061	2489805	21.876 ug/ml
22)	T n-Tetracontane (C40)	21.939	2171897	19.528 ug/ml

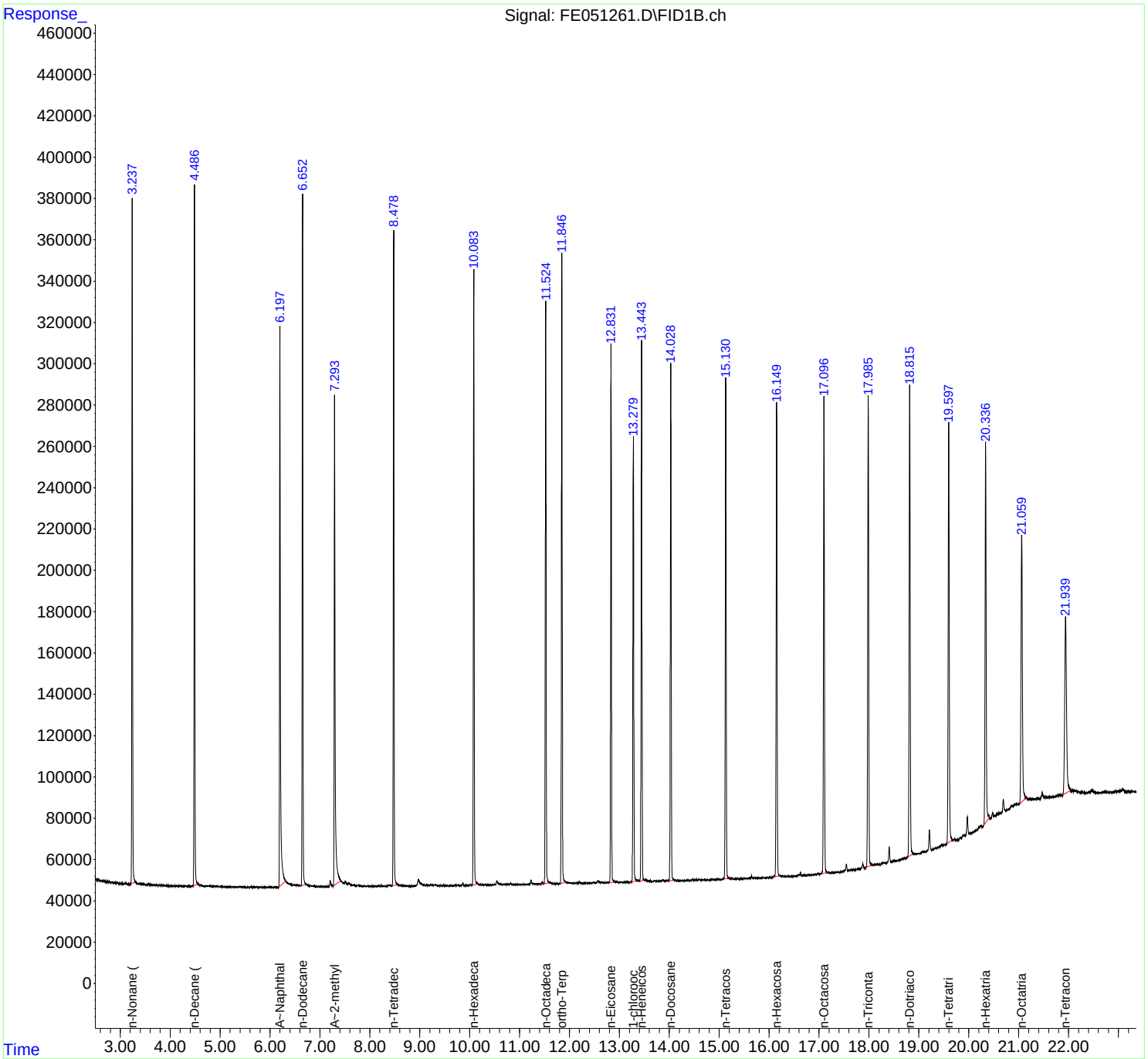
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051261.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 13:17
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 08:17:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
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_E\Data\FE111524AL\
Data File : FE051261.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 13:17
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.238	3.208	3.301	BB	331076	3363280	97.58%	4.971%
2	4.486	4.451	4.551	BB	336417	3394712	98.50%	5.017%
3	6.198	6.178	6.311	BB	268796	3180028	92.27%	4.700%
4	6.652	6.614	6.724	BB	334026	3391374	98.40%	5.012%
5	7.294	7.264	7.418	BB	236200	2966797	86.08%	4.385%
6	8.478	8.444	8.554	BB	316738	3291891	95.51%	4.865%
7	10.084	10.051	10.161	BB	297786	3316471	96.23%	4.902%
8	11.525	11.424	11.598	BB	282610	3317559	96.26%	4.903%
9	11.846	11.811	11.921	BB	305116	3446527	100.00%	5.094%
10	12.832	12.794	12.908	BB	262060	3145232	91.26%	4.649%
11	13.278	13.218	13.354	BB	215985	2598200	75.39%	3.840%
12	13.443	13.408	13.494	BB	262063	3062756	88.86%	4.527%
13	14.028	13.991	14.104	BB	249844	3045948	88.38%	4.502%
14	15.130	15.094	15.204	BB	242990	3031089	87.95%	4.480%
15	16.149	16.081	16.224	BB	228340	3031944	87.97%	4.481%
16	17.097	17.028	17.171	BB	229185	3057217	88.70%	4.519%
17	17.985	17.921	18.061	BB	227212	3236623	93.91%	4.784%
18	18.815	18.761	18.891	BB	227282	3311001	96.07%	4.894%
19	19.598	19.561	19.674	BB	202567	3069831	89.07%	4.537%
20	20.338	20.301	20.414	BB	182801	2738861	79.47%	4.048%
21	21.061	21.011	21.151	BB	129095	2489805	72.24%	3.680%
22	21.939	21.871	22.041	BB	85168	2171897	63.02%	3.210%
			Sum of corrected areas:			67659042		

Aliphatic EPH 110724.M Sat Nov 16 11:19:48 2024

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

Continuing Calibration Report for SequenceID : FE111524AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051276.D**						
Aliphatic C9-C12	9208781.000	60.000	3.134	6.753	153479.683	139914.732	-9.695
Aliphatic C12-C16	6047179.000	40.000	6.754	10.185	151179.475	140635.568	-7.497
Aliphatic C16-C21	8792528.000	60.000	10.186	13.544	146542.133	137768.027	-6.369
Aliphatic C21-C28	11435247.000	80.000	13.545	17.200	142940.588	133951.574	-6.711
Aliphatic C28-C40	15501398.000	120.000	17.201	22.043	129178.317	128748.418	-0.334
Aliphatic EPH	50985133.000	360.000	3.134	22.043	141625.369	134589.790	-5.227

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:	15 Nov 2024 23:21
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051276.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.134	6.753	9208781.000	60.000	ug/ml
Aliphatic C12-C16	6.754	10.185	6047179.000	40.000	ug/ml
Aliphatic C16-C21	10.186	13.544	8792528.000	60.000	ug/ml
Aliphatic C21-C28	13.545	17.200	11435247.000	80.000	ug/ml
Aliphatic C28-C40	17.201	22.043	15501398.000	120.000	ug/ml
Aliphatic EPH	3.134	22.043	50985133.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051276.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 23:21
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 10:51:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9)	S ortho-Terphenyl (SURR)	11.845	3178612	21.177 ug/ml
	Spiked Amount 50.000		Recovery = 42.35%	
12)	S 1-chlorooctadecane (S...	13.278	2402820	21.164 ug/ml
	Spiked Amount 50.000		Recovery = 42.33%	
	Target Compounds			
1)	T n-Nonane (C9)	3.235	3044594	22.003 ug/ml
2)	T n-Decane (C10)	4.484	3084055	22.001 ug/ml
3)	T A~Naphthalene (C11.7)	6.198	2859970	21.691 ug/ml
4)	T n-Dodecane (C12)	6.652	3080132	21.814 ug/ml
5)	T A~2-methylnaphthalene...	7.294	2589233	20.698 ug/ml
6)	T n-Tetradecane (C14)	8.478	3006948	21.576 ug/ml
7)	T n-Hexadecane (C16)	10.084	3040231	21.424 ug/ml
8)	T n-Octadecane (C18)	11.524	3051062	21.365 ug/ml
10)	T n-Eicosane (C20)	12.832	2901722	21.203 ug/ml
11)	T n-Heneicosane (C21)	13.443	2839744	21.249 ug/ml
13)	T n-Docosane (C22)	14.028	2821362	21.221 ug/ml
14)	T n-Tetracosane (C24)	15.129	2848485	21.472 ug/ml
15)	T n-Hexacosane (C26)	16.148	2868961	21.431 ug/ml
16)	T n-Octacosane (C28)	17.097	2896439	21.246 ug/ml
17)	T n-Tricontane (C30)	17.984	3021531	20.797 ug/ml
18)	T n-Dotriacontane (C32)	18.816	3007656	20.256 ug/ml
19)	T n-Tetratriacontane (C34)	19.598	2712598	20.188 ug/ml
20)	T n-Hexatriacontane (C36)	20.336	2393027	20.056 ug/ml
21)	T n-Octatriacontane (C38)	21.060	2252107	19.787 ug/ml
22)	T n-Tetracontane (C40)	21.940	2114479	19.012 ug/ml

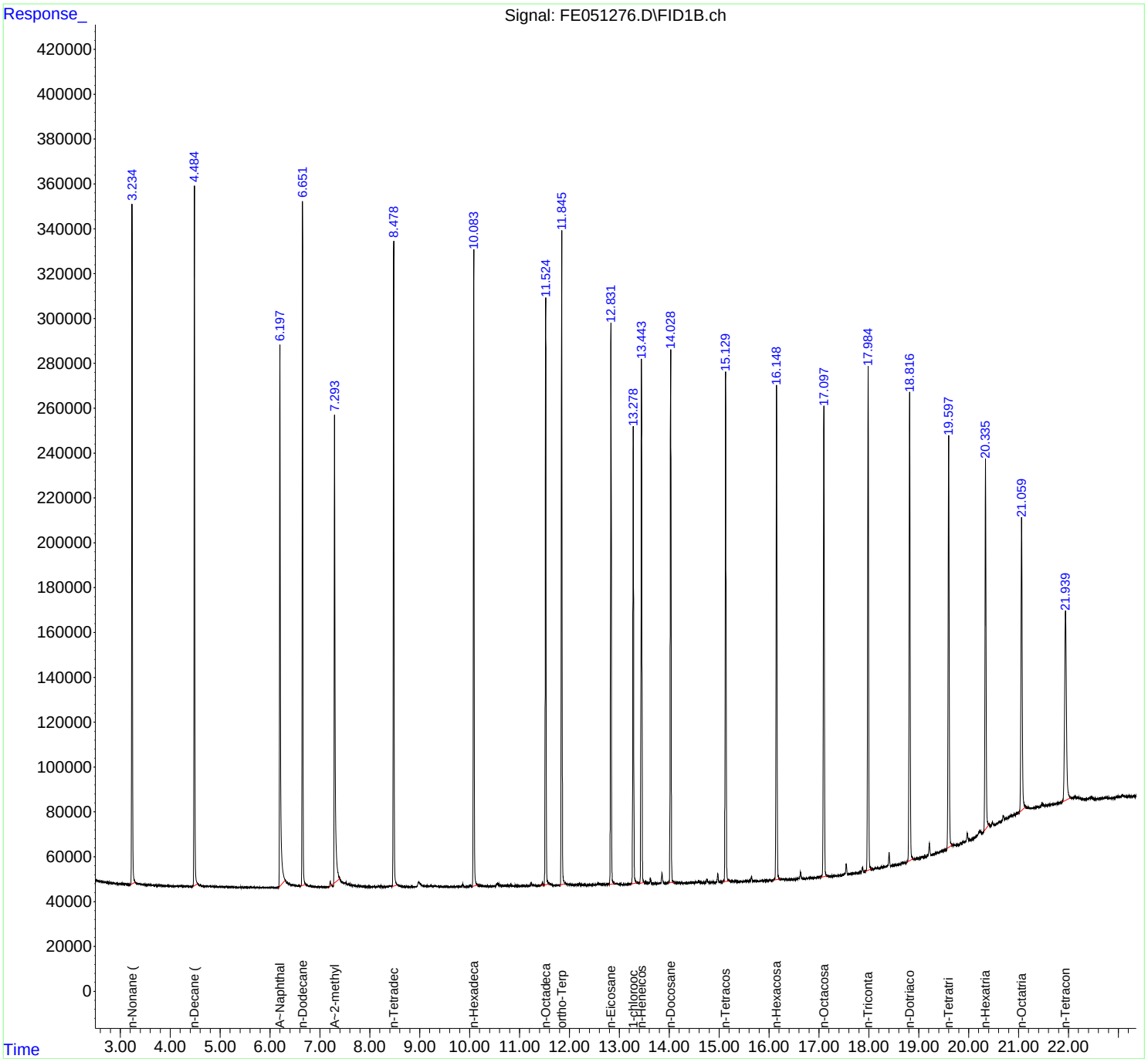
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111524AL\
Data File : FE051276.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 23:21
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 16 10:51:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
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_E\Data\FE111524AL\
Data File : FE051276.D
Signal(s) : FID1B.ch
Acq On : 15 Nov 2024 23:21
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.235	3.201	3.298	BB	301623	3044594	95.78%	4.909%
2	4.484	4.454	4.548	BB	310611	3084055	97.03%	4.973%
3	6.198	6.178	6.304	BB	240095	2859970	89.98%	4.612%
4	6.652	6.608	6.714	BB	306018	3080132	96.90%	4.967%
5	7.294	7.178	7.398	BB	207000	2589233	81.46%	4.175%
6	8.478	8.448	8.548	BB	286435	3006948	94.60%	4.849%
7	10.084	10.048	10.161	BB	281939	3040231	95.65%	4.902%
8	11.524	11.428	11.598	BB	262284	3051062	95.99%	4.920%
9	11.845	11.801	11.918	BB	291226	3178612	100.00%	5.125%
10	12.832	12.794	12.904	BB	250029	2901722	91.29%	4.679%
11	13.278	13.234	13.351	BB	203499	2402820	75.59%	3.875%
12	13.443	13.408	13.501	BB	233551	2839744	89.34%	4.579%
13	14.028	13.994	14.098	BB	236299	2821362	88.76%	4.549%
14	15.129	15.061	15.201	BB	227253	2848485	89.61%	4.593%
15	16.148	16.084	16.221	BB	220465	2868961	90.26%	4.626%
16	17.097	17.024	17.168	BB	210804	2896439	91.12%	4.670%
17	17.984	17.921	18.054	BB	224757	3021531	95.06%	4.872%
18	18.816	18.761	18.884	BB	208077	3007656	94.62%	4.850%
19	19.598	19.561	19.668	BB	183135	2712598	85.34%	4.374%
20	20.336	20.301	20.408	BB	163328	2393027	75.29%	3.859%
21	21.060	21.011	21.138	BB	129486	2252107	70.85%	3.632%
22	21.940	21.871	22.044	BB	84529	2114479	66.52%	3.410%
			Sum of corrected areas:			62015769		

Aliphatic EPH 110724.M Sat Nov 16 11:20:17 2024

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

Continuing Calibration Report for SequenceID : FE111824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051299.D**						
Aliphatic C9-C12	9640465.000	60.000	3.139	6.758	160674.417	139914.732	-14.837
Aliphatic C12-C16	6133615.000	40.000	6.759	10.191	153340.375	140635.568	-9.034
Aliphatic C16-C21	8722478.000	60.000	10.192	13.551	145374.633	137768.027	-5.521
Aliphatic C21-C28	11727920.000	80.000	13.552	17.208	146599.000	133951.574	-9.442
Aliphatic C28-C40	15217478.000	120.000	17.209	22.059	126812.317	128748.418	1.504
Aliphatic EPH	51441956.000	360.000	3.139	22.059	142894.322	134589.790	-6.170

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:	18 Nov 2024 08:50
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051299.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.139	6.758	9640465.000	60.000	ug/ml
Aliphatic C12-C16	6.759	10.191	6133615.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.551	8722478.000	60.000	ug/ml
Aliphatic C21-C28	13.552	17.208	11727920.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.059	15217478.000	120.000	ug/ml
Aliphatic EPH	3.139	22.059	51441956.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051299.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 08:50
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 18 17:26:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.854	3148321	20.975 ug/ml
Spiked Amount	50.000		Recovery =	41.95%
12) S	1-chlorooctadecane (S...	13.287	2358810	20.777 ug/ml
Spiked Amount	50.000		Recovery =	41.55%
	Target Compounds			
1) T	n-Nonane (C9)	3.239	3202995	23.148 ug/ml
2) T	n-Decane (C10)	4.489	3235526	23.082 ug/ml
3) T	A~Naphthalene (C11.7)	6.204	3021469	22.916 ug/ml
4) T	n-Dodecane (C12)	6.658	3201944	22.677 ug/ml
5) T	A~2-methylnaphthalene...	7.300	2759600	22.060 ug/ml
6) T	n-Tetradecane (C14)	8.485	3071029	22.036 ug/ml
7) T	n-Hexadecane (C16)	10.091	3062586	21.582 ug/ml
8) T	n-Octadecane (C18)	11.533	3046220	21.331 ug/ml
10) T	n-Eicosane (C20)	12.840	2874560	21.004 ug/ml
11) T	n-Heneicosane (C21)	13.451	2801698	20.964 ug/ml
13) T	n-Docosane (C22)	14.037	2824722	21.246 ug/ml
14) T	n-Tetracosane (C24)	15.139	2921783	22.025 ug/ml
15) T	n-Hexacosane (C26)	16.158	2960852	22.117 ug/ml
16) T	n-Octacosane (C28)	17.108	3020563	22.156 ug/ml
17) T	n-Tricontane (C30)	17.995	3138791	21.604 ug/ml
18) T	n-Dotriacontane (C32)	18.828	3167632	21.333 ug/ml
19) T	n-Tetratriacontane (C34)	19.611	2830020	21.062 ug/ml
20) T	n-Hexatriacontane (C36)	20.350	2343582	19.641 ug/ml
21) T	n-Octatriacontane (C38)	21.075	2027346	17.812 ug/ml
22) T	n-Tetracontane (C40)	21.959	1710107	15.376 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051299.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 08:50
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

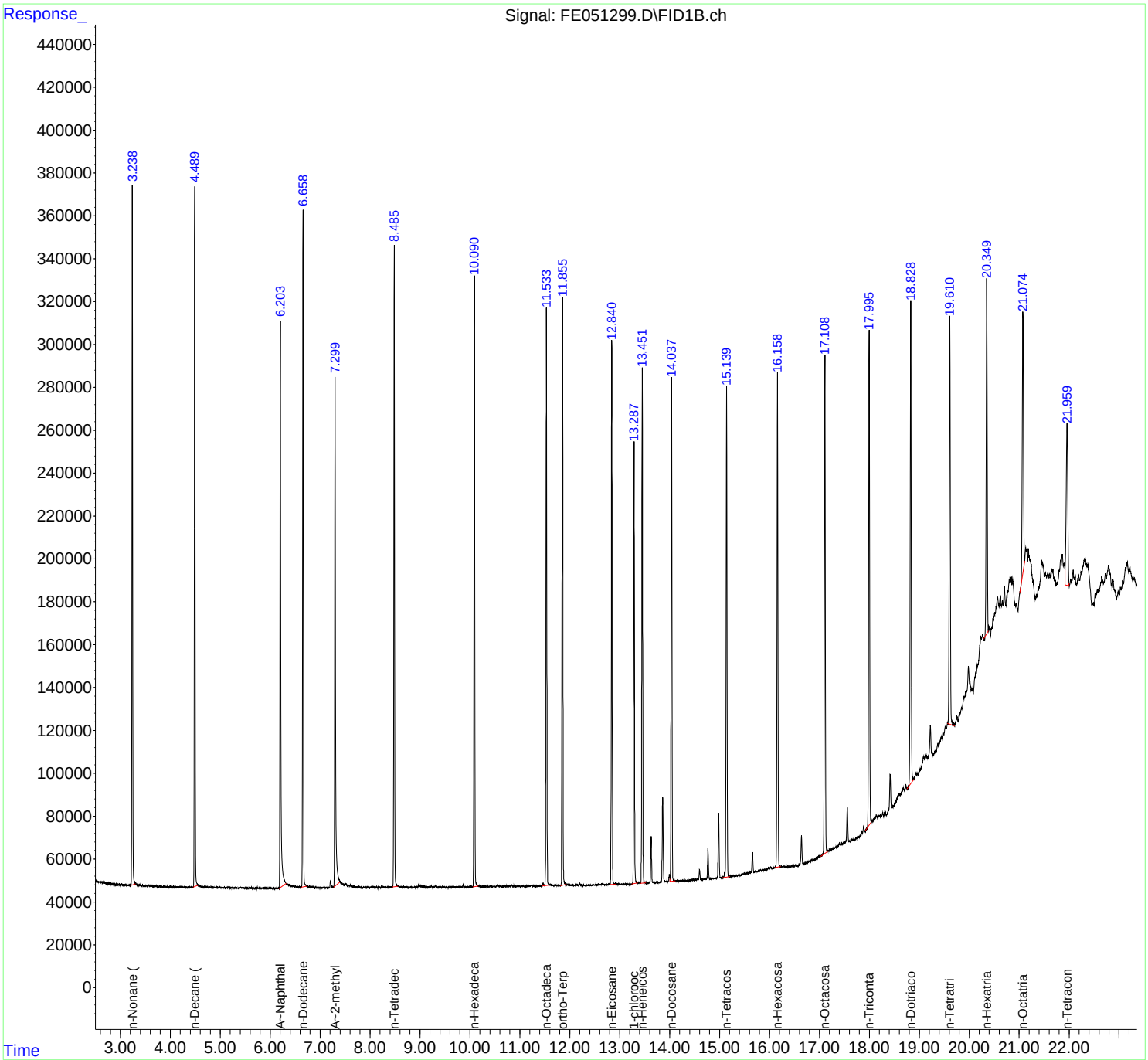
Integration File: autoint1.e
Quant Time: Nov 18 17:26:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11182
Data File : FE051299.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 08:50
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.239	3.208	3.301	BB	323704	3202995	98.99%	5.120%
2	4.489	4.455	4.551	BB	324891	3235526	100.00%	5.172%
3	6.204	6.178	6.321	BB	261873	3021469	93.38%	4.830%
4	6.658	6.625	6.731	BB	315753	3201944	98.96%	5.118%
5	7.300	7.268	7.401	BB	234978	2759600	85.29%	4.411%
6	8.485	8.451	8.561	BB	295832	3071029	94.92%	4.909%
7	10.091	10.055	10.168	BB	283346	3062586	94.65%	4.895%
8	11.533	11.438	11.605	BB	269019	3046220	94.15%	4.869%
9	11.854	11.815	11.931	BB	274798	3148321	97.30%	5.033%
10	12.840	12.805	12.918	BB	253002	2874560	88.84%	4.595%
11	13.287	13.241	13.365	BB	206511	2358810	72.90%	3.770%
12	13.451	13.415	13.528	BB	240614	2801698	86.59%	4.478%
13	14.037	14.007	14.111	VB	235465	2824722	87.30%	4.515%
14	15.139	15.051	15.211	BB	229076	2921783	90.30%	4.670%
15	16.158	16.088	16.225	BB	230338	2960852	91.51%	4.733%
16	17.108	17.025	17.175	BB	231360	3020563	93.36%	4.828%
17	17.995	17.921	18.041	BB	229080	3138791	97.01%	5.017%
18	18.828	18.761	18.891	BB	225497	3167632	97.90%	5.063%
19	19.611	19.561	19.698	BB	188836	2830020	87.47%	4.524%
20	20.350	20.301	20.381	BV	162958	2343582	72.43%	3.746%
21	21.075	21.011	21.110	BV	121525	2027346	62.66%	3.241%
22	21.959	21.871	22.005	BV	71188	1539671	47.59%	2.461%
			Sum of corrected areas:			62559717		

Aliphatic EPH 110724.M Tue Nov 19 04:07:32 2024

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

Continuing Calibration Report for SequenceID : FE111824AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051307.D**						
Aliphatic C9-C12	9680818.000	60.000	3.139	6.758	161346.967	139914.732	-15.318
Aliphatic C12-C16	6246985.000	40.000	6.759	10.191	156174.625	140635.568	-11.049
Aliphatic C16-C21	9028819.000	60.000	10.192	13.551	150480.317	137768.027	-9.227
Aliphatic C21-C28	12251008.000	80.000	13.552	17.208	153137.600	133951.574	-14.323
Aliphatic C28-C40	15825286.000	120.000	17.209	22.059	131877.383	128748.418	-2.430
Aliphatic EPH	53032916.000	360.000	3.139	22.059	147313.656	134589.790	-9.454

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:	18 Nov 2024 12:52
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051307.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.139	6.758	9680818.000	60.000	ug/ml
Aliphatic C12-C16	6.759	10.191	6246985.000	40.000	ug/ml
Aliphatic C16-C21	10.192	13.551	9028819.000	60.000	ug/ml
Aliphatic C21-C28	13.552	17.208	12251008.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.059	15825286.000	120.000	ug/ml
Aliphatic EPH	3.139	22.059	53032916.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051307.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 12:52
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: autoint1.e
Quant Time: Nov 19 02:49:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.852	3256048	21.693 ug/ml
Spiked Amount	50.000		Recovery =	43.39%
12) S	1-chlorooctadecane (S...	13.285	2451505	21.593 ug/ml
Spiked Amount	50.000		Recovery =	43.19%
	Target Compounds			
1) T	n-Nonane (C9)	3.238	3211966	23.213 ug/ml
2) T	n-Decane (C10)	4.488	3246109	23.157 ug/ml
3) T	A~Naphthalene (C11.7)	6.202	3024413	22.938 ug/ml
4) T	n-Dodecane (C12)	6.656	3222743	22.824 ug/ml
5) T	A~2-methylnaphthalene...	7.298	2789916	22.303 ug/ml
6) T	n-Tetradecane (C14)	8.483	3121089	22.395 ug/ml
7) T	n-Hexadecane (C16)	10.088	3125896	22.028 ug/ml
8) T	n-Octadecane (C18)	11.530	3129590	21.915 ug/mlm
10) T	n-Eicosane (C20)	12.838	2985304	21.814 ug/ml
11) T	n-Heneicosane (C21)	13.449	2913925	21.804 ug/ml
13) T	n-Docosane (C22)	14.035	2985948	22.459 ug/ml
14) T	n-Tetracosane (C24)	15.137	3044845	22.953 ug/ml
15) T	n-Hexacosane (C26)	16.156	3078329	22.995 ug/ml
16) T	n-Octacosane (C28)	17.105	3141886	23.046 ug/ml
17) T	n-Tricontane (C30)	17.992	3242493	22.318 ug/ml
18) T	n-Dotriacontane (C32)	18.824	3242185	21.836 ug/ml
19) T	n-Tetratriacontane (C34)	19.607	2904576	21.617 ug/ml
20) T	n-Hexatriacontane (C36)	20.347	2461283	20.628 ug/ml
21) T	n-Octatriacontane (C38)	21.070	2123806	18.660 ug/ml
22) T	n-Tetracontane (C40)	21.951	1850943	16.642 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111824AL\
Data File : FE051307.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 12:52
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

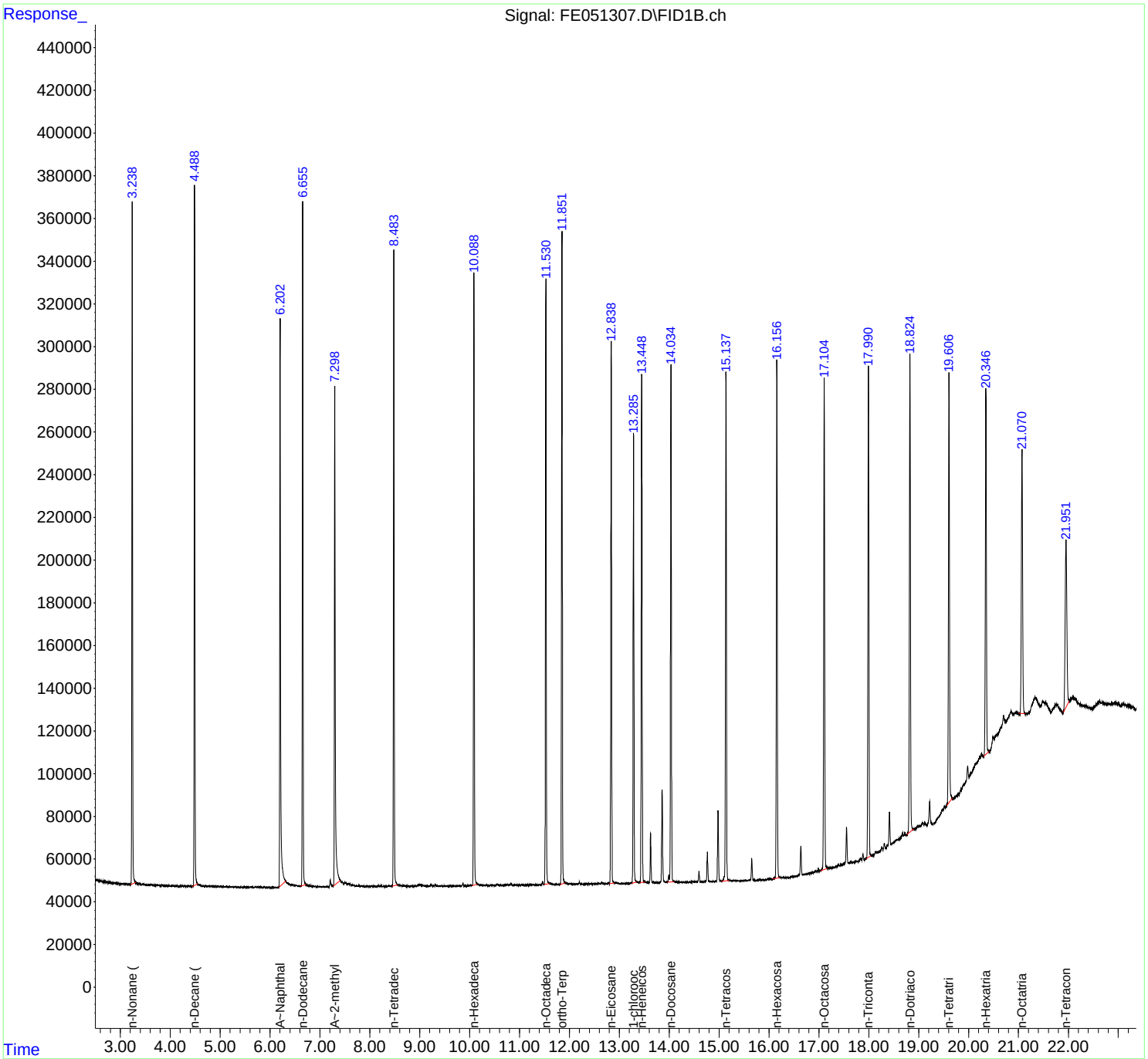
Integration File: autoint1.e
Quant Time: Nov 19 02:49:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024



Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11182
Data File : FE051307.D
Signal(s) : FID1B.ch
Acq On : 18 Nov 2024 12:52
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.238	3.208	3.301	BB	319285	3211966	98.65%	4.978%
2	4.488	4.448	4.551	BB	327197	3246109	99.69%	5.031%
3	6.202	6.178	6.311	BB	263924	3024413	92.89%	4.688%
4	6.656	6.618	6.718	BB	318775	3222743	98.98%	4.995%
5	7.298	7.268	7.408	BB	233063	2789916	85.68%	4.324%
6	8.483	8.448	8.558	BB	299210	3121089	95.86%	4.838%
7	10.088	10.051	10.154	BB	285049	3125896	96.00%	4.845%
8	11.530	11.431	11.598	BB	284547	3141086	96.47%	4.869%
9	11.852	11.818	11.914	BB	304520	3256048	100.00%	5.047%
10	12.838	12.801	12.904	BB	254376	2985304	91.68%	4.627%
11	13.285	13.244	13.351	BB	208577	2451505	75.29%	3.800%
12	13.449	13.411	13.514	BB	238772	2913925	89.49%	4.516%
13	14.035	13.961	14.101	BB	241830	2985948	91.70%	4.628%
14	15.137	15.048	15.201	BB	238244	3044845	93.51%	4.719%
15	16.156	16.074	16.221	BB	242086	3078329	94.54%	4.771%
16	17.105	17.031	17.168	BB	230890	3141886	96.49%	4.870%
17	17.992	17.948	18.041	BB	230557	3242493	99.58%	5.026%
18	18.824	18.761	18.894	BB	222609	3242185	99.57%	5.025%
19	19.607	19.561	19.678	BB	199989	2904576	89.21%	4.502%
20	20.347	20.301	20.414	BB	169953	2461283	75.59%	3.815%
21	21.070	21.011	21.131	BB	124239	2123806	65.23%	3.292%
22	21.953	21.871	22.021	BB	77834	1802315	55.35%	2.794%
			Sum of corrected areas:			64517667		

Aliphatic EPH 110724.M Tue Nov 19 04:08:02 2024

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

Continuing Calibration Report for SequenceID : FE111924AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051337.D**						
Aliphatic C28-C40	15751632.000	120.000	17.199	22.041	131263.600	128748.418	-1.954
Aliphatic EPH	53278076.000	360.000	3.136	22.041	147994.656	134589.790	-9.960
Aliphatic C9-C12	10147030.000	60.000	3.136	6.752	169117.167	139914.732	-20.872
Aliphatic C12-C16	6396528.000	40.000	6.753	10.184	159913.200	140635.568	-13.708
Aliphatic C16-C21	8947952.000	60.000	10.185	13.543	149132.533	137768.027	-8.249
Aliphatic C21-C28	12034934.000	80.000	13.544	17.198	150436.675	133951.574	-12.307

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:	19 Nov 2024 06:55
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051337.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.136	6.752	10147030.000	60.000	ug/ml
Aliphatic C12-C16	6.753	10.184	6396528.000	40.000	ug/ml
Aliphatic C16-C21	10.185	13.543	8947952.000	60.000	ug/ml
Aliphatic C21-C28	13.544	17.198	12034934.000	80.000	ug/ml
Aliphatic C28-C40	17.199	22.041	15751632.000	120.000	ug/ml
Aliphatic EPH	3.136	22.041	53278076.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051337.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 06:55
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 19 09:41:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.846	3221406	21.462 ug/ml
Spiked Amount	50.000		Recovery =	42.92%
12) S	1-chlorooctadecane (S...	13.278	2432697	21.428 ug/ml
Spiked Amount	50.000		Recovery =	42.86%
	Target Compounds			
1) T	n-Nonane (C9)	3.236	3370852	24.361 ug/ml
2) T	n-Decane (C10)	4.486	3415177	24.363 ug/ml
3) T	A~Naphthalene (C11.7)	6.198	3112245	23.605 ug/ml
4) T	n-Dodecane (C12)	6.652	3361001	23.804 ug/ml
5) T	A~2-methylnaphthalene...	7.294	2878152	23.008 ug/ml
6) T	n-Tetradecane (C14)	8.479	3216415	23.079 ug/ml
7) T	n-Hexadecane (C16)	10.084	3180113	22.410 ug/ml
8) T	n-Octadecane (C18)	11.525	3128503	21.907 ug/ml
10) T	n-Eicosane (C20)	12.832	2955594	21.597 ug/ml
11) T	n-Heneicosane (C21)	13.443	2863855	21.429 ug/ml
13) T	n-Docosane (C22)	14.029	2932931	22.060 ug/ml
14) T	n-Tetracosane (C24)	15.130	2987387	22.519 ug/ml
15) T	n-Hexacosane (C26)	16.149	3023544	22.586 ug/ml
16) T	n-Octacosane (C28)	17.098	3091072	22.674 ug/ml
17) T	n-Tricontane (C30)	17.986	3188964	21.949 ug/ml
18) T	n-Dotriacontane (C32)	18.817	3195558	21.522 ug/ml
19) T	n-Tetratriacontane (C34)	19.600	2839005	21.129 ug/ml
20) T	n-Hexatriacontane (C36)	20.338	2470546	20.705 ug/ml
21) T	n-Octatriacontane (C38)	21.062	2177655	19.133 ug/ml
22) T	n-Tetracontane (C40)	21.941	1879904	16.902 ug/ml

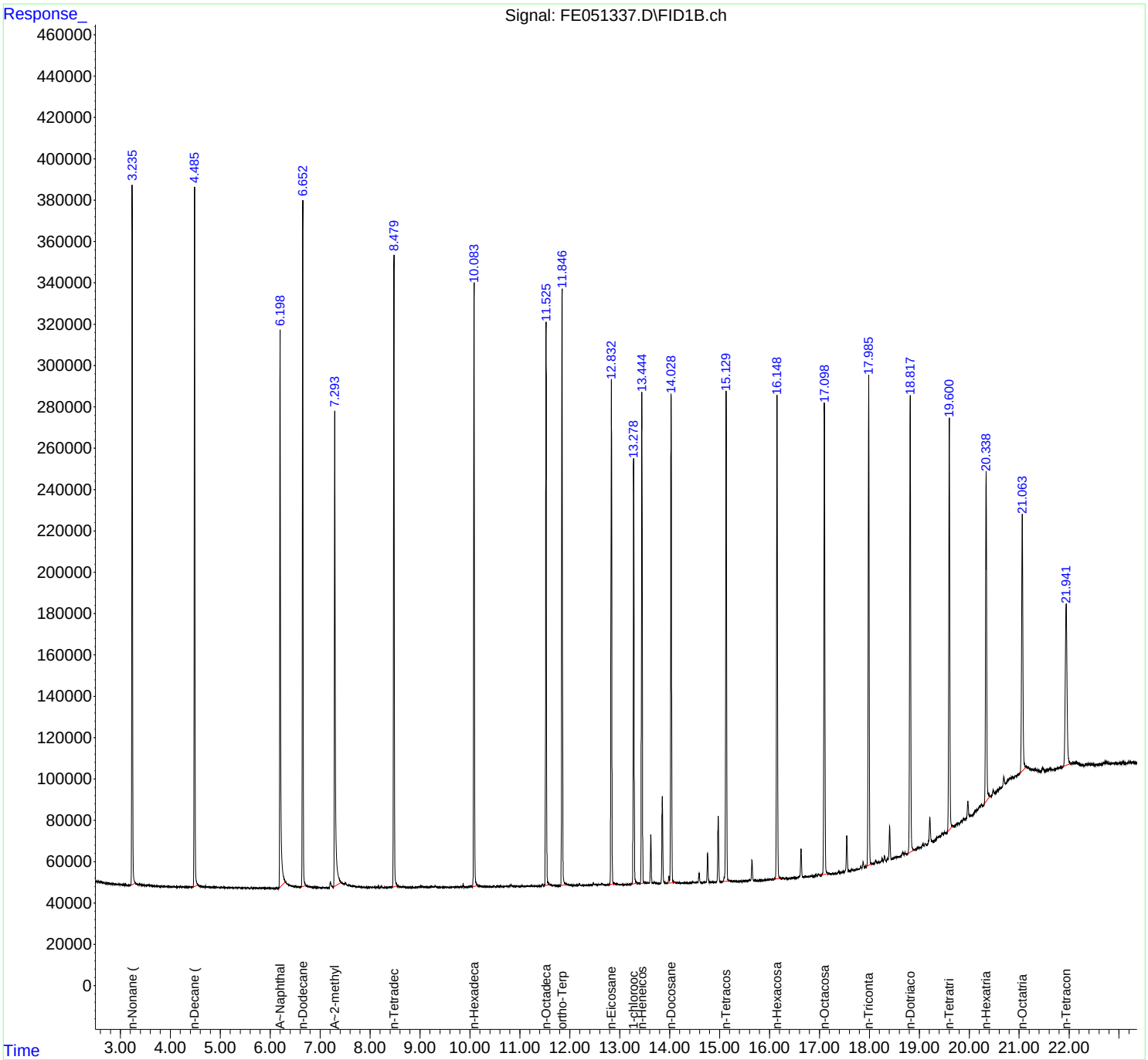
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051337.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 06:55
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 19 09:41:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
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_E\Data\FE111924AL\
Data File : FE051337.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 06:55
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.236	3.204	3.301	BB	337331	3370852	98.70%	5.192%
2	4.486	4.448	4.554	BB	336754	3415177	100.00%	5.260%
3	6.198	6.178	6.304	BB	268269	3112245	91.13%	4.794%
4	6.652	6.621	6.714	BB	331455	3361001	98.41%	5.177%
5	7.294	7.261	7.421	BB	226733	2878152	84.28%	4.433%
6	8.479	8.444	8.551	BB	303273	3216415	94.18%	4.954%
7	10.084	10.048	10.154	BB	290829	3180113	93.12%	4.898%
8	11.525	11.484	11.598	BB	273241	3128503	91.61%	4.819%
9	11.846	11.811	11.934	BB	290238	3221406	94.33%	4.962%
10	12.832	12.794	12.908	BB	243324	2955594	86.54%	4.552%
11	13.278	13.241	13.354	BB	205531	2432697	71.23%	3.747%
12	13.443	13.404	13.498	BB	238740	2863855	83.86%	4.411%
13	14.029	13.954	14.104	BB	236527	2932931	85.88%	4.518%
14	15.130	15.044	15.198	BB	236443	2987387	87.47%	4.601%
15	16.149	16.078	16.224	BB	233427	3023544	88.53%	4.657%
16	17.098	17.028	17.168	BB	226353	3091072	90.51%	4.761%
17	17.986	17.938	18.034	BB	234959	3188964	93.38%	4.912%
18	18.817	18.761	18.891	BB	221063	3195558	93.57%	4.922%
19	19.600	19.561	19.664	BB	199032	2839005	83.13%	4.373%
20	20.338	20.301	20.414	BB	159647	2470546	72.34%	3.805%
21	21.062	21.011	21.134	BB	123390	2177655	63.76%	3.354%
22	21.941	21.871	22.024	BB	77924	1879904	55.05%	2.896%
			Sum of corrected areas:			64922575		

Aliphatic EPH 110724.M Tue Nov 19 09:56:33 2024

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

Continuing Calibration Report for SequenceID : FE111924AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FE051345.D**						
Aliphatic C28-C40	15991458.000	120.000	17.199	22.041	133262.150	128748.418	-3.506
Aliphatic EPH	51471892.000	360.000	3.136	22.041	142977.478	134589.790	-6.232
Aliphatic C9-C12	9574535.000	60.000	3.136	6.752	159575.583	139914.732	-14.052
Aliphatic C12-C16	6063357.000	40.000	6.753	10.184	151583.925	140635.568	-7.785
Aliphatic C16-C21	8548935.000	60.000	10.185	13.543	142482.250	137768.027	-3.422
Aliphatic C21-C28	11293607.000	80.000	13.544	17.198	141170.088	133951.574	-5.389

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:	19 Nov 2024 11:58
Client Sample ID:		Operator:	YP\AJ
Data file:	FE051345.D	Misc:	
Instrument:	FID_E	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.136	6.752	9574535.000	60.000	ug/ml
Aliphatic C12-C16	6.753	10.184	6063357.000	40.000	ug/ml
Aliphatic C16-C21	10.185	13.543	8548935.000	60.000	ug/ml
Aliphatic C21-C28	13.544	17.198	11293607.000	80.000	ug/ml
Aliphatic C28-C40	17.199	22.041	15991458.000	120.000	ug/ml
Aliphatic EPH	3.136	22.041	51471892.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051345.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 11:58
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Integration File: autoint1.e
Quant Time: Nov 20 02:35:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
9) S	ortho-Terphenyl (SURR)	11.846	3082289	20.536 ug/ml
Spiked Amount	50.000		Recovery =	41.07%
12) S	1-chlorooctadecane (S...	13.279	2334686	20.564 ug/ml
Spiked Amount	50.000		Recovery =	41.13%
	Target Compounds			
1) T	n-Nonane (C9)	3.235	3181853	22.995 ug/ml
2) T	n-Decane (C10)	4.485	3222316	22.987 ug/ml
3) T	A~Naphthalene (C11.7)	6.198	2934856	22.259 ug/ml
4) T	n-Dodecane (C12)	6.652	3170366	22.453 ug/ml
5) T	A~2-methylnaphthalene...	7.294	2695226	21.546 ug/ml
6) T	n-Tetradecane (C14)	8.478	3041340	21.823 ug/ml
7) T	n-Hexadecane (C16)	10.084	3022017	21.296 ug/ml
8) T	n-Octadecane (C18)	11.525	2981814	20.880 ug/ml
10) T	n-Eicosane (C20)	12.833	2822979	20.628 ug/ml
11) T	n-Heneicosane (C21)	13.443	2744142	20.533 ug/ml
13) T	n-Docosane (C22)	14.028	2731524	20.545 ug/mlm
14) T	n-Tetracosane (C24)	15.130	2804920	21.144 ug/ml
15) T	n-Hexacosane (C26)	16.150	2839801	21.213 ug/ml
16) T	n-Octacosane (C28)	17.099	2917362	21.399 ug/ml
17) T	n-Tricontane (C30)	17.984	3123160	21.496 ug/ml
18) T	n-Dotriacontane (C32)	18.817	3273250	22.045 ug/ml
19) T	n-Tetratriacontane (C34)	19.599	3024981	22.513 ug/ml
20) T	n-Hexatriacontane (C36)	20.338	2615374	21.919 ug/ml
21) T	n-Octatriacontane (C38)	21.061	2174917	19.109 ug/ml
22) T	n-Tetracontane (C40)	21.940	1779776	16.002 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE111924AL\
Data File : FE051345.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 11:58
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

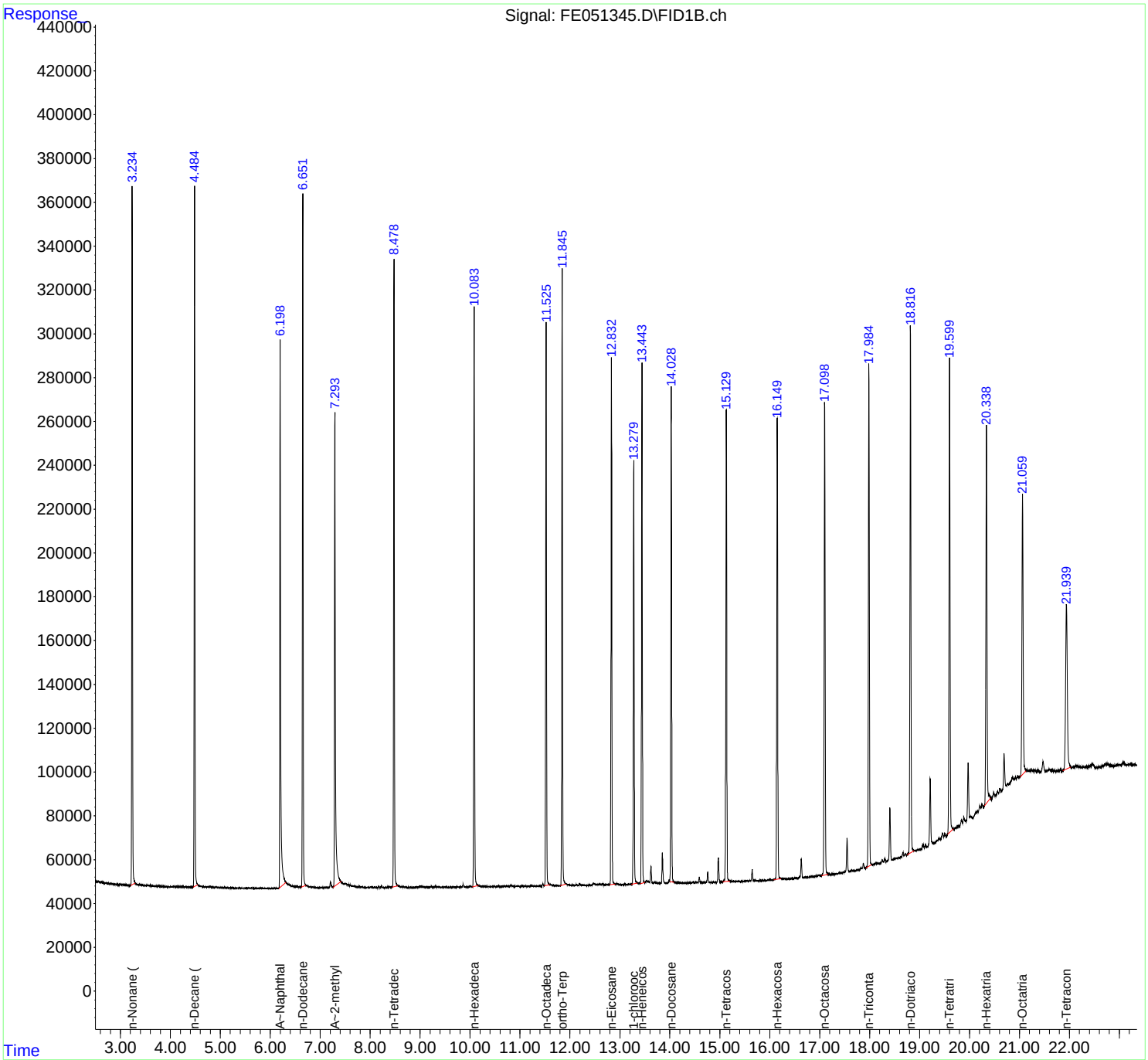
Integration File: autoint1.e
Quant Time: Nov 20 02:35:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.
Quant Title : GC Extractables
QLast Update : Thu Nov 07 04:56:04 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024



Instrument :
FID_E
LabSampleId :
20 PPM ALIPHATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/20/2024
Supervised By :Ankita Jodhani 11/20/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE11192
Data File : FE051345.D
Signal(s) : FID1B.ch
Acq On : 19 Nov 2024 11:58
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 110724.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.235	3.204	3.298	BB	318941	3181853	97.21%	5.086%
2	4.485	4.454	4.551	BB	319874	3222316	98.44%	5.151%
3	6.198	6.178	6.314	BB	248644	2934856	89.66%	4.691%
4	6.652	6.618	6.714	BB	314912	3170366	96.86%	5.068%
5	7.294	7.264	7.414	BB	214729	2695226	82.34%	4.308%
6	8.478	8.441	8.554	BB	285698	3041340	92.92%	4.861%
7	10.084	10.044	10.161	BB	264481	3022017	92.32%	4.831%
8	11.525	11.484	11.601	BB	255164	2981814	91.10%	4.766%
9	11.846	11.804	11.918	BB	280256	3082289	94.17%	4.927%
10	12.833	12.794	12.908	BB	238399	2822979	86.24%	4.512%
11	13.279	13.238	13.354	BB	191720	2334686	71.33%	3.732%
12	13.443	13.408	13.491	BB	236270	2744142	83.84%	4.386%
13	14.028	13.954	14.104	BB	226105	2772645	84.71%	4.432%
14	15.130	15.058	15.204	BB	216089	2804920	85.69%	4.484%
15	16.150	16.078	16.224	BB	210482	2839801	86.76%	4.539%
16	17.099	17.034	17.168	BB	213683	2917362	89.13%	4.663%
17	17.984	17.921	18.038	BB	229538	3123160	95.41%	4.992%
18	18.817	18.761	18.894	BB	238526	3273250	100.00%	5.232%
19	19.599	19.561	19.674	BB	213866	3024981	92.42%	4.835%
20	20.338	20.301	20.418	BB	172824	2615374	79.90%	4.181%
21	21.061	21.011	21.131	BB	128011	2174917	66.45%	3.477%
22	21.940	21.871	22.028	BB	74985	1779776	54.37%	2.845%
			Sum of corrected areas:			62560068		

Aliphatic EPH 110724.M Wed Nov 20 04:21:15 2024

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

Continuing Calibration Report for SequenceID : FF111624AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015053.D**						
Aromatic C10-C12	5336746.000	40.000	4.507	6.371	133418.650	136785.903	2.462
Aromatic C12-C16	7883684.000	60.000	6.372	9.062	131394.733	135022.207	2.687
Aromatic C16-C21	9800610.000	80.000	9.063	13.374	122507.625	127893.613	4.211
Aromatic C21-C36	20897750.000	180.000	13.375	18.817	116098.611	121872.475	4.738
Aromatic EPH	43918790.000	360.000	4.507	18.817	121996.639	127059.175	3.984

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Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	15 Nov 2024 10:24
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015053.D	Misc:	
Instrument:	FID_F	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.507	6.371	5336746.000	40.000	ug/ml
Aromatic C12-C16	6.372	9.062	7883684.000	60.000	ug/ml
Aromatic C16-C21	9.063	13.374	9800610.000	80.000	ug/ml
Aromatic C21-C36	13.375	18.817	20897750.000	180.000	ug/ml
Aromatic EPH	4.507	18.817	43918790.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015053.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 10:24
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 15 13:48:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.989	2380397	19.493 ug/ml
Spiked Amount	50.000		Recovery =	38.99%
6) S	2-Flurobiphenyl (SURR)	8.863	1581197	19.368 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	38.74%
11) S	ortho-Terphenyl (SURR)	11.924	2624767	19.567 ug/ml
Spiked Amount	50.000		Recovery =	39.13%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.607	2639487	19.483 ug/ml
2) T	Naphthalene (C11.7)	6.271	2697259	19.532 ug/ml
3) T	2-Methylnaphthalene (...	7.364	2618204	19.413 ug/ml
5) T	Acenaphthylene (C15.06)	8.663	2660401	19.482 ug/ml
7) T	Acenaphthene (C15.5)	8.962	2605079	19.492 ug/ml
8) T	Flouorene (C16.55)	9.750	2564966	19.215 ug/ml
9) T	Phenanthrene (C19.36)	11.156	2463773	19.186 ug/ml
10) T	Anthracene (C19.43)	11.230	2369681	18.785 ug/ml
12) T	Fluoranthene (C21.85)	12.976	2414567	19.309 ug/ml
13) T	Pyrene (C20.8)	13.274	2402190	19.446 ug/ml
14) T	Benzo[a]anthracene (C...	15.152	2193584	18.503 ug/ml
15) T	Chrysene (C27.41)	15.195	2268734	18.999 ug/ml
16) T	benzo[b]fluoranthene ...	16.710	2511064	20.788 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.741	2445909	20.317 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.090	2198664	18.867 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.460	2108141	17.784 ug/ml
20) T	Dibenz[a,h]anthracene...	18.499	2286708	17.888 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.717	2470379	19.041 ug/ml

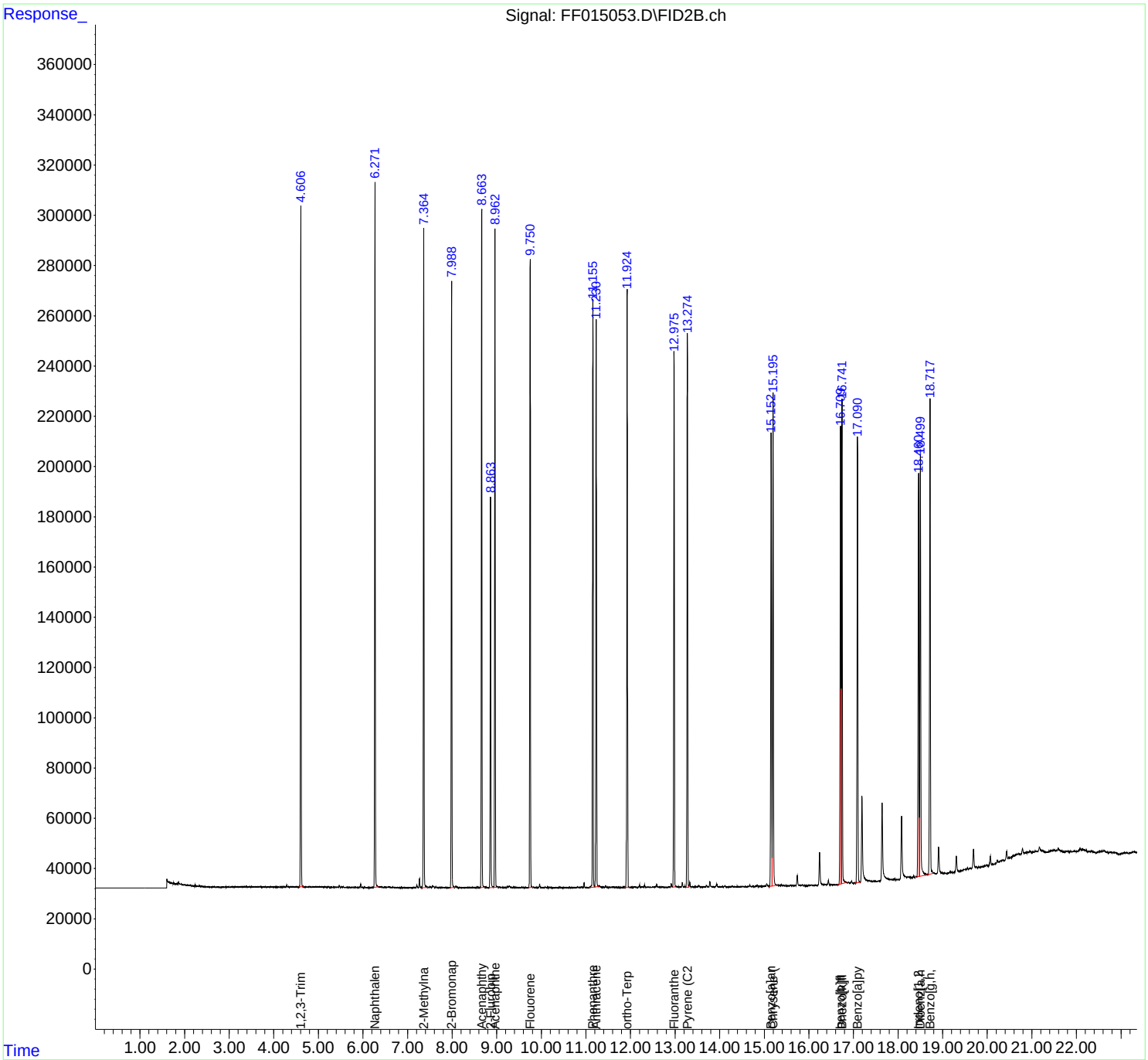
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015053.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 10:24
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 15 13:48:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
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\FF111624AR\
Data File : FF015053.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 10:24
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.567	4.669	BB	269734	2639487	97.86%	5.226%
2	6.271	6.239	6.349	BB	280777	2697259	100.00%	5.341%
3	7.364	7.322	7.459	BB	262750	2618204	97.07%	5.184%
4	7.989	7.942	8.067	BB	241656	2380397	88.25%	4.713%
5	8.663	8.627	8.727	BB	268997	2660401	98.63%	5.268%
6	8.863	8.824	8.927	BV	155010	1581197	58.62%	3.131%
7	8.962	8.927	9.031	VB	262526	2605079	96.58%	5.158%
8	9.750	9.716	9.811	BB	250556	2564966	95.10%	5.079%
9	11.156	11.067	11.197	BV	234247	2463773	91.34%	4.878%
10	11.230	11.197	11.294	VV	226377	2369681	87.86%	4.692%
11	11.924	11.869	11.976	BB	237789	2624767	97.31%	5.197%
12	12.976	12.934	13.017	VB	213197	2414567	89.52%	4.781%
13	13.274	13.234	13.307	BV	220132	2402190	89.06%	4.756%
14	15.152	15.101	15.173	BV	180632	2193584	81.33%	4.343%
15	15.195	15.173	15.287	VB	196827	2268734	84.11%	4.492%
16	16.710	16.639	16.725	BV	182452	2511064	93.10%	4.972%
17	16.741	16.725	16.842	VB	192923	2445909	90.68%	4.843%
18	17.090	17.019	17.147	BV	177219	2198664	81.51%	4.353%
19	18.460	18.411	18.478	BV	159761	2108141	78.16%	4.174%
20	18.499	18.478	18.656	VB	168105	2286708	84.78%	4.528%
21	18.717	18.661	18.800	BBA	189731	2470379	91.59%	4.891%
			Sum of corrected areas:			50505150		

Aromatic EPH 111524.M Fri Nov 15 13:58:35 2024

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Fax : 908 789 8922

Continuing Calibration Report for SequenceID : FF111624AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015068.D**						
Aromatic C10-C12	5493316.000	40.000	4.507	6.371	137332.900	136785.903	-0.400
Aromatic C12-C16	8072512.000	60.000	6.372	9.062	134541.867	135022.207	0.356
Aromatic C16-C21	10039777.000	80.000	9.063	13.374	125497.213	127893.613	1.874
Aromatic C21-C36	21625976.000	180.000	13.375	18.817	120144.311	121872.475	1.418
Aromatic EPH	45231581.000	360.000	4.507	18.817	125643.281	127059.175	1.114

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Fax : 908 789 8922

Lab Sample ID:	20 PPM AROMATIC HC S	Acq On:	15 Nov 2024 18:58
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015068.D	Misc:	
Instrument:	FID_F	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.507	6.371	5493316.000	40.000	ug/ml
Aromatic C12-C16	6.372	9.062	8072512.000	60.000	ug/ml
Aromatic C16-C21	9.063	13.374	10039777.000	80.000	ug/ml
Aromatic C21-C36	13.375	18.817	21625976.000	180.000	ug/ml
Aromatic EPH	4.507	18.817	45231581.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015068.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:58
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 18 00:26:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.989	2434614	19.937 ug/ml
Spiked Amount	50.000		Recovery =	39.87%
6)	S 2-Flurobiphenyl (SURR)	8.863	1618457	19.824 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	39.65%
11)	S ortho-Terphenyl (SURR)	11.924	2666197	19.875 ug/ml
Spiked Amount	50.000		Recovery =	39.75%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.607	2725947	20.121 ug/ml
2)	T Naphthalene (C11.7)	6.271	2767369	20.040 ug/ml
3)	T 2-Methylnaphthalene (...	7.364	2688639	19.936 ug/ml
5)	T Acenaphthylene (C15.06)	8.663	2721269	19.928 ug/ml
7)	T Acenaphthene (C15.5)	8.963	2662604	19.923 ug/ml
8)	T Flouorene (C16.55)	9.751	2633132	19.726 ug/ml
9)	T Phenanthrene (C19.36)	11.156	2519849	19.623 ug/mlm
10)	T Anthracene (C19.43)	11.230	2427455	19.243 ug/ml
12)	T Fluoranthene (C21.85)	12.975	2475152	19.793 ug/ml
13)	T Pyrene (C20.8)	13.274	2459341	19.909 ug/ml
14)	T Benzo[a]anthracene (C...	15.152	2318222	19.554 ug/ml
15)	T Chrysene (C27.41)	15.195	2346631	19.651 ug/ml
16)	T benzo[b]fluoranthene ...	16.709	2437455	20.179 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.742	2409527	20.015 ug/ml
18)	T Benzo[a]pyrene (C31.34)	17.089	2342435	20.101 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	18.459	2304555	19.441 ug/ml
20)	T Dibenz[a,h]anthracene...	18.499	2371778	18.553 ug/ml
21)	T Benzo[g,h,i]perylene ...	18.716	2620221	20.196 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015068.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:58
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

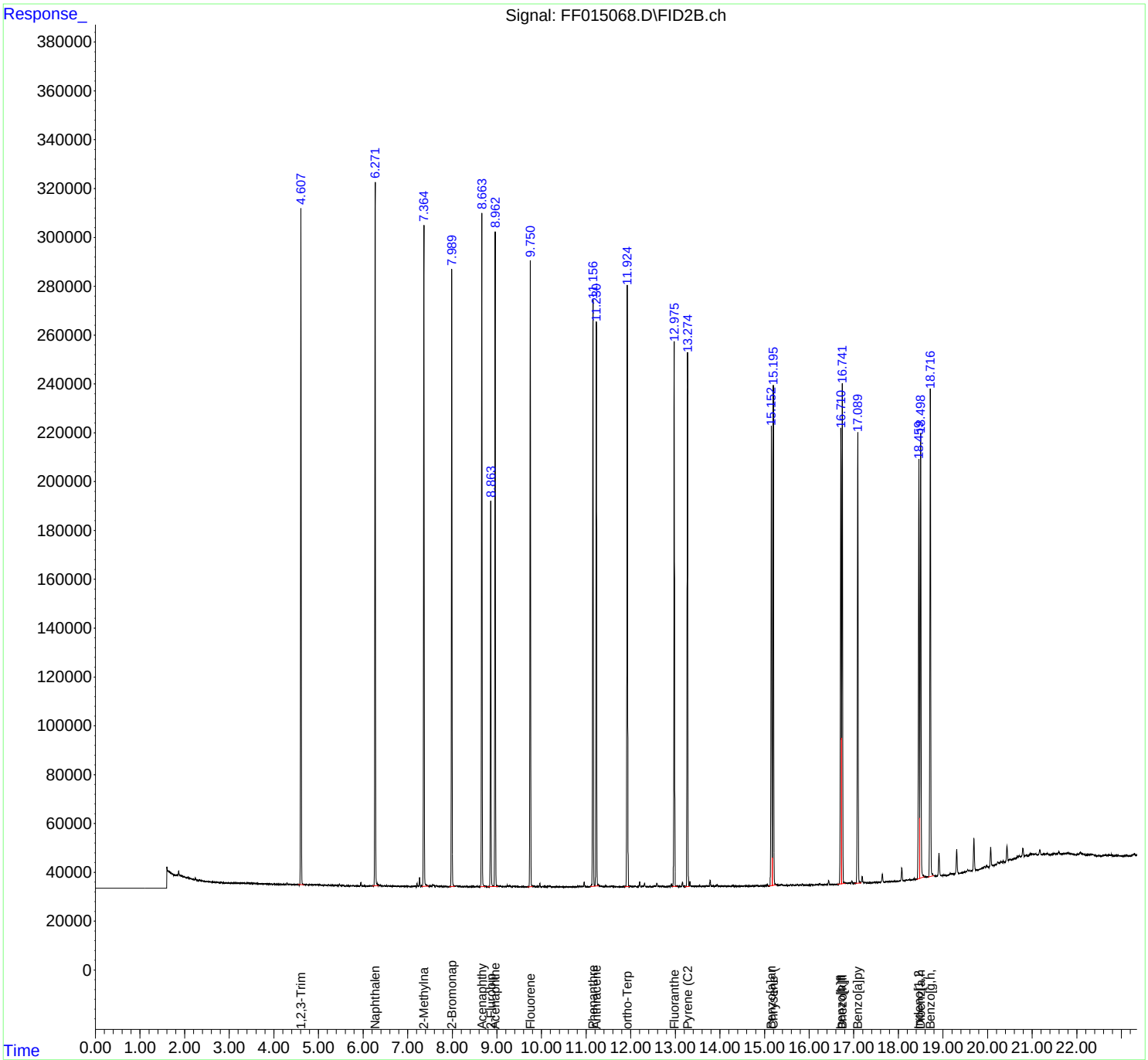
Integration File: autoint1.e
Quant Time: Nov 18 00:26:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024



Instrument :
FID_F
LabSampleId :
20 PPM AROMATIC HC STD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF11162
Data File : FF015068.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 18:58
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.550	4.675	BB	276815	2725947	98.50%	5.248%
2	6.271	6.209	6.350	BB	287322	2767369	100.00%	5.327%
3	7.364	7.322	7.464	BB	270075	2688639	97.16%	5.176%
4	7.989	7.929	8.067	BV	252386	2434614	87.98%	4.687%
5	8.663	8.625	8.744	BB	276189	2721269	98.33%	5.239%
6	8.863	8.792	8.932	BV	158536	1618457	58.48%	3.116%
7	8.963	8.932	9.027	VB	268480	2662604	96.21%	5.126%
8	9.751	9.682	9.802	BB	256109	2633132	95.15%	5.069%
9	11.156	10.984	11.200	PV	239822	2515136	90.89%	4.842%
10	11.230	11.200	11.289	VV	230850	2427455	87.72%	4.673%
11	11.924	11.862	11.977	BB	246160	2666197	96.34%	5.133%
12	12.975	12.935	13.047	PB	223296	2475152	89.44%	4.765%
13	13.274	13.214	13.309	BV	218254	2459341	88.87%	4.734%
14	15.152	15.087	15.173	BV	188011	2318222	83.77%	4.463%
15	15.195	15.173	15.270	VB	205358	2346631	84.80%	4.517%
16	16.709	16.639	16.725	BV	185544	2437455	88.08%	4.692%
17	16.742	16.725	16.814	VB	205194	2409527	87.07%	4.639%
18	17.089	17.019	17.160	BV	184156	2342435	84.64%	4.509%
19	18.459	18.410	18.477	BV	171028	2304555	83.28%	4.436%
20	18.499	18.477	18.590	VB	182124	2371778	85.71%	4.566%
21	18.716	18.660	18.800	BBA	200418	2620221	94.68%	5.044%
			Sum of corrected areas:			51946135		

Aromatic EPH 111524.M Mon Nov 18 01:00:38 2024

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

Continuing Calibration Report for SequenceID : FF111624AR

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
File ID :	**FF015075.D**						
Aromatic C10-C12	5613857.000	40.000	4.507	6.371	140346.425	136785.903	-2.603
Aromatic C12-C16	8279747.000	60.000	6.372	9.062	137995.783	135022.207	-2.202
Aromatic C16-C21	10353508.000	80.000	9.063	13.374	129418.850	127893.613	-1.193
Aromatic C21-C36	22031721.000	180.000	13.375	18.817	122398.450	121872.475	-0.432
Aromatic EPH	46278833.000	360.000	4.507	18.817	128552.314	127059.175	-1.175

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:	15 Nov 2024 23:42
Client Sample ID:		Operator:	YP\AJ
Data file:	FF015075.D	Misc:	
Instrument:	FID_F	ALS Vial:	41
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aromatic C10-C12	4.507	6.371	5613857.000	40.000	ug/ml
Aromatic C12-C16	6.372	9.062	8279747.000	60.000	ug/ml
Aromatic C16-C21	9.063	13.374	10353508.000	80.000	ug/ml
Aromatic C21-C36	13.375	18.817	22031721.000	180.000	ug/ml
Aromatic EPH	4.507	18.817	46278833.000	360.000	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015075.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 23:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 18 00:27:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.989	2495769	20.438 ug/ml
Spiked Amount	50.000		Recovery =	40.88%
6) S	2-Flurobiphenyl (SURR)	8.863	1668596	20.438 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	40.88%
11) S	ortho-Terphenyl (SURR)	11.924	2748348	20.488 ug/ml
Spiked Amount	50.000		Recovery =	40.98%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.607	2779677	20.518 ug/ml
2) T	Naphthalene (C11.7)	6.271	2834180	20.523 ug/ml
3) T	2-Methylnaphthalene (...	7.364	2757474	20.446 ug/ml
5) T	Acenaphthylene (C15.06)	8.663	2788554	20.421 ug/ml
7) T	Acenaphthene (C15.5)	8.963	2733719	20.455 ug/ml
8) T	Flouorene (C16.55)	9.751	2713169	20.326 ug/ml
9) T	Phenanthrene (C19.36)	11.156	2605006	20.286 ug/ml
10) T	Anthracene (C19.43)	11.230	2507591	19.879 ug/ml
12) T	Fluoranthene (C21.85)	12.974	2548601	20.381 ug/ml
13) T	Pyrene (C20.8)	13.273	2527742	20.462 ug/ml
14) T	Benzo[a]anthracene (C...	15.152	2374662	20.030 ug/ml
15) T	Chrysene (C27.41)	15.195	2399384	20.093 ug/ml
16) T	benzo[b]fluoranthene ...	16.709	2485063	20.573 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.741	2448157	20.335 ug/ml
18) T	Benzo[a]pyrene (C31.34)	17.089	2371224	20.348 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	18.459	2339551	19.736 ug/ml
20) T	Dibenz[a,h]anthracene...	18.499	2414848	18.890 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.716	2650231	20.427 ug/ml

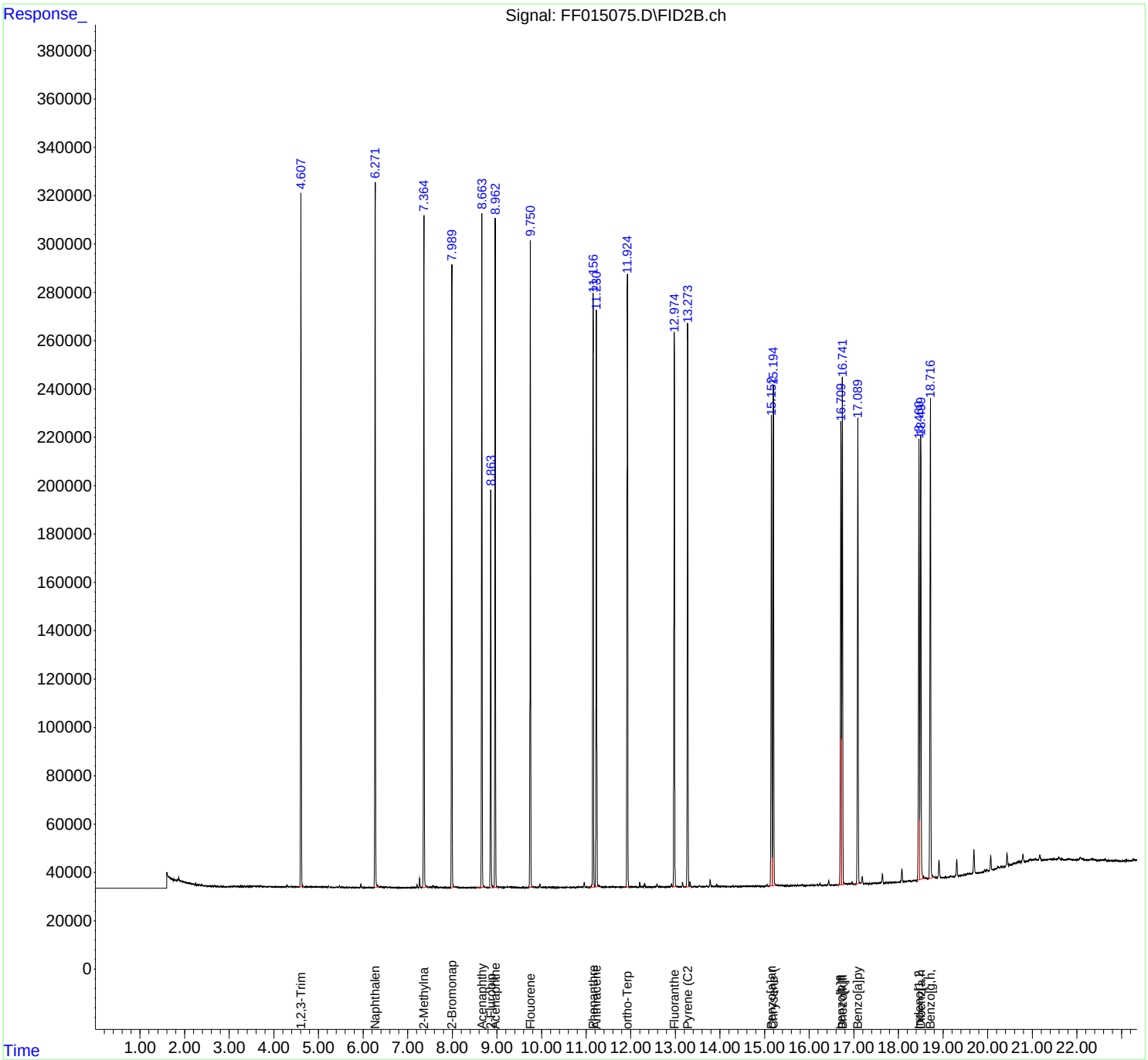
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_F\Data\FF111624AR\
Data File : FF015075.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 23:42
Operator : YP\AJ
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Instrument :
FID_F
ClientSampleId :
20 PPM AROMATIC HC STD

Integration File: autoint1.e
Quant Time: Nov 18 00:27:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.M
Quant Title : GC Extractables
QLast Update : Fri Nov 15 02:02:38 2024
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\FF111624AR\
Data File : FF015075.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 23:42
Sample : 20 PPM AROMATIC HC STD
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_F\Method\Aromatic EPH 111524.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	4.551	4.676	BB	286413	2779677	98.08%	5.226%
2	6.271	6.237	6.354	BB	291454	2834180	100.00%	5.328%
3	7.364	7.322	7.462	BB	278063	2757474	97.29%	5.184%
4	7.989	7.946	8.062	BB	257514	2495769	88.06%	4.692%
5	8.663	8.539	8.736	BB	278336	2788554	98.39%	5.242%
6	8.863	8.824	8.931	BV	164396	1668596	58.87%	3.137%
7	8.963	8.931	9.019	VB	276791	2733719	96.46%	5.139%
8	9.751	9.711	9.809	BB	267694	2713169	95.73%	5.101%
9	11.156	11.067	11.197	BV	246370	2605006	91.91%	4.897%
10	11.230	11.197	11.284	VV	238975	2507591	88.48%	4.714%
11	11.924	11.871	11.972	BB	253612	2748348	96.97%	5.167%
12	12.974	12.934	13.024	PB	228629	2548601	89.92%	4.791%
13	13.273	13.212	13.309	BV	233865	2527742	89.19%	4.752%
14	15.152	15.086	15.172	BV	194923	2374662	83.79%	4.464%
15	15.195	15.172	15.269	VB	207138	2399384	84.66%	4.511%
16	16.709	16.629	16.724	BV	191526	2485063	87.68%	4.672%
17	16.741	16.724	16.814	VB	210254	2448157	86.38%	4.603%
18	17.089	17.021	17.156	BB	193143	2371224	83.67%	4.458%
19	18.459	18.411	18.477	BV	181733	2339551	82.55%	4.398%
20	18.499	18.477	18.602	VB	183571	2414848	85.20%	4.540%
21	18.716	18.661	18.800	BBA	197954	2650231	93.51%	4.982%
			Sum of corrected areas:			53191544		

Aromatic EPH 111524.M Mon Nov 18 01:01:24 2024

QC SAMPLE DATA

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

Report of Analysis

Client:	ENTACT			Date Collected:			
Project:	North Point			Date Received:			
Client Sample ID:	PB164996BL			SDG No.:	P4839		
Lab Sample ID:	PB164996BL			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
FD048740.D	1	11/14/24	11/15/24	PB164996

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)	50.4		40 - 140	101%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	46.3		40 - 140	93%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.3		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:	PB164996BL	Acq On:	15 Nov 2024 12:09
Client Sample ID:	PB164996BL	Operator:	YP/AJ
Data file:	FD048740.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	4.088	5.805	0	0	200	ug/ml
Aromatic C12-C16	5.806	8.411	0	0	300	ug/ml
Aromatic C16-C21	8.412	12.674	0	0	500	ug/ml
Aromatic C21-C36	12.675	18.081	0	0	800	ug/ml
Aromatic EPH	4.088	18.081	0	0		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	9674383	50.3		ug/ml
2-Bromonaphthalene (SURR)	7.365	7.365	8868150	50.37		ug/ml
2-Flurobiphenyl (SURR)	8.214	8.214	5328163	46.26		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048740.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:09
Operator : YP/AJ
Sample : PB164996BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164996BL

Integration File: sample.E
Quant Time: Nov 16 09:48:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.365	8868150	50.370 ug/ml
Spiked Amount 50.000		Recovery = 100.74%	
6) S 2-Flurobiphenyl (SURR)	8.214	5328163	46.263 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 92.53%	
11) S ortho-Terphenyl (SURR)	11.255	9674383	50.299 ug/ml
Spiked Amount 50.000		Recovery = 100.60%	
Target Compounds			

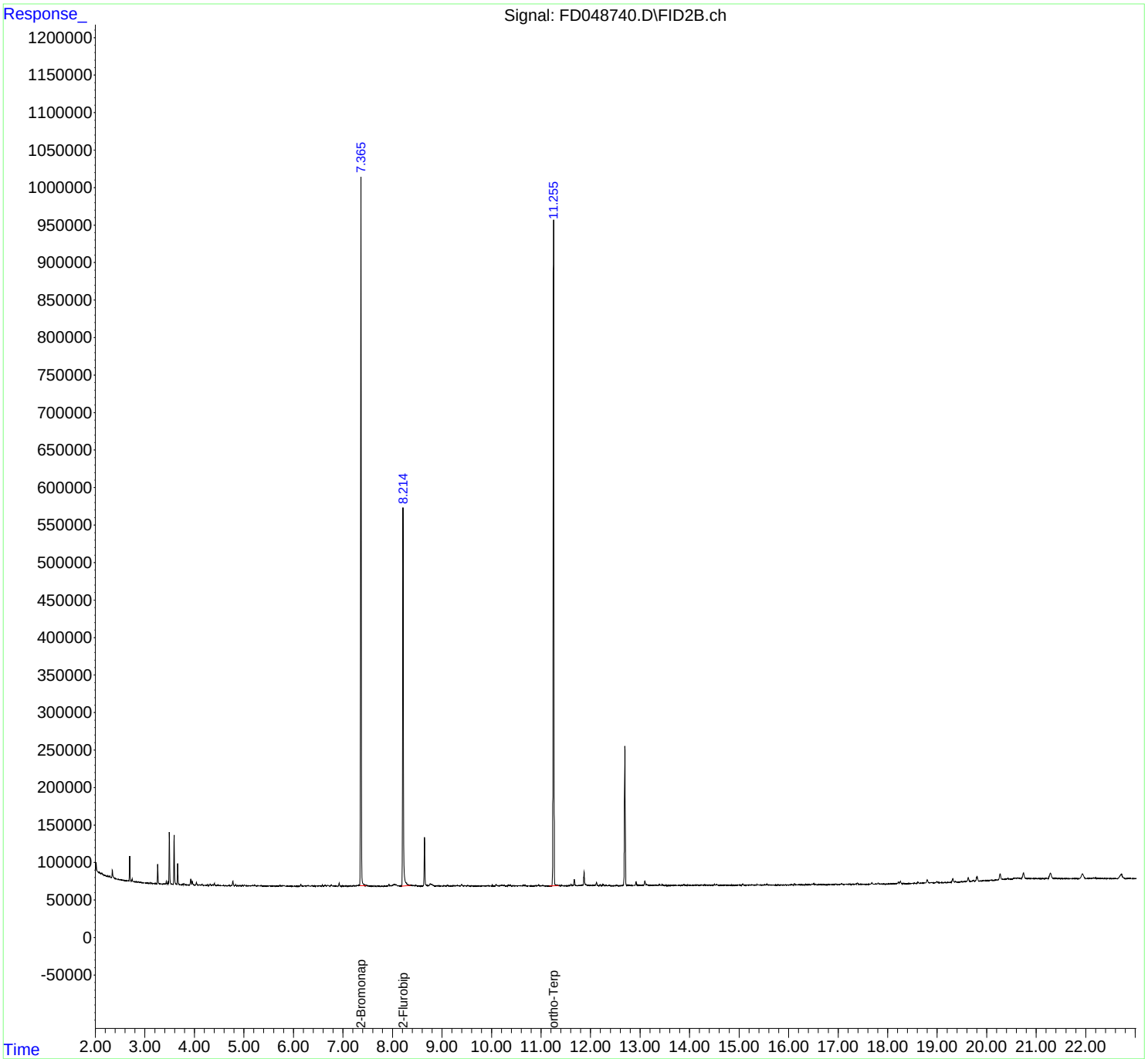
(f)=RT Delta > 1/2 Window (m)=manual int.

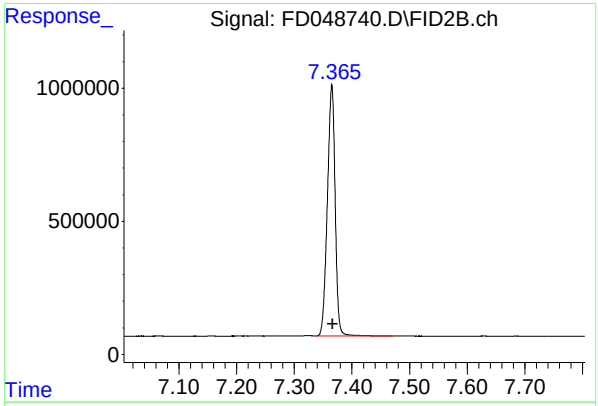
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048740.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:09
Operator : YP/AJ
Sample : PB164996BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164996BL

Integration File: sample.E
Quant Time: Nov 16 09:48:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

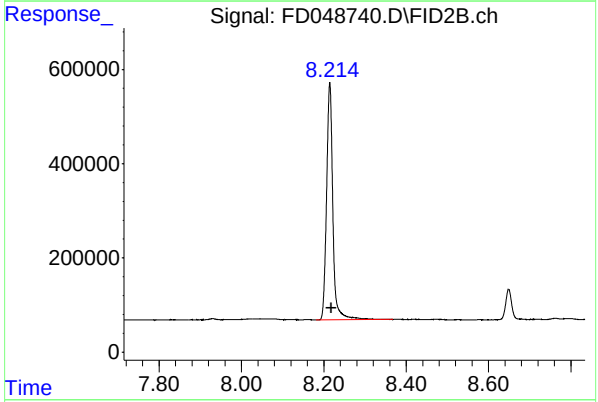




#4 2-Bromonaphthalene (SURR)

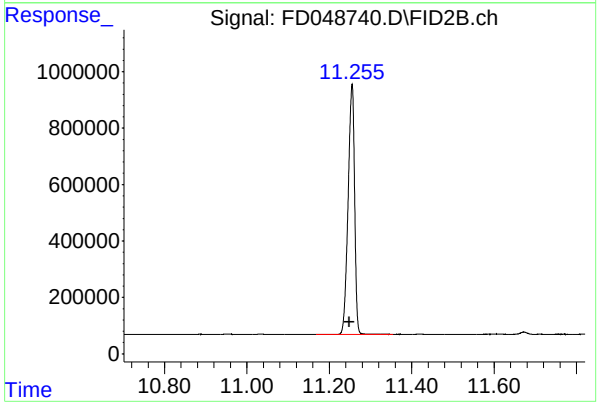
R.T.: 7.365 min
Delta R.T.: -0.002 min
Response: 8868150
Conc: 50.37 ug/ml

Instrument :
FID_D
ClientSampleId :
PB164996BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.214 min
Delta R.T.: -0.004 min
Response: 5328163
Conc: 46.26 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: 0.006 min
Response: 9674383
Conc: 50.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048740.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:09
Sample : PB164996BL
Misc :
ALS Vial : 61 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	7.365	7.338	7.471	VB	937750	8868150	91.67%	37.151%
2	8.214	8.181	8.368	BB	503725	5328163	55.07%	22.321%
3	11.255	11.168	11.355	BB	884368	9674383	100.00%	40.528%
			Sum of corrected areas:			23870696		

Aromatic EPH 111424.M Sat Nov 16 10:25:43 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:			
Project:	North Point			Date Received:			
Client Sample ID:	PB164996BL			SDG No.:	P4839		
Lab Sample ID:	PB164996BL			Matrix:	Solid		
Analytical Method:	NJEPH			% Solid:	100		
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000	uL	
Soil Aliquot Vol:			uL	Test:	EPH		
Prep Method :							

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 12:09	PB164996

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	FC067771.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067771.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067771.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067771.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067771.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048740.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048740.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048740.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048740.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:	ENTACT			Date Collected:			
Project:	North Point			Date Received:			
Client Sample ID:	PB164996BL			SDG No.:	P4839		
Lab Sample ID:	PB164996BL			Matrix:	Solid		
Analytical Method:	NJEPH			% Solid:	100		
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000	uL	
Soil Aliquot Vol:			uL	Test:	EPH		
Prep Method :							

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 12:09	PB164996

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	FC067771.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067771.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067771.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067771.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067771.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048740.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048740.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048740.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048740.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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164996BL		SDG No.:	P4839	
Lab Sample ID:	PB164996BL		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
FC067771.D	1	11/14/24	11/15/24	PB164996

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)		44.4		40 - 140	89%	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:	PB164996BL	Acq On:	15 Nov 2024 12:09
Client Sample ID:	PB164996BL	Operator:	YP/AJ
Data file:	FC067771.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.932	12.932	6445763	44.4		ug/ml
Aliphatic C9-C12	3.172	6.448	0	0	300	ug/ml
Aliphatic C12-C16	6.449	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.850	0	0	400	ug/ml
Aliphatic C28-C40	16.851	21.693	0	0	600	ug/ml
Aliphatic C9-C28	3.172	16.850	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067771.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:09
Operator : YP/AJ
Sample : PB164996BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164996BL

Integration File: autoint1.e
Quant Time: Nov 16 08:19:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.932	6445763	44.404 ug/ml
Spiked Amount 50.000		Recovery = 88.81%	
Target Compounds			

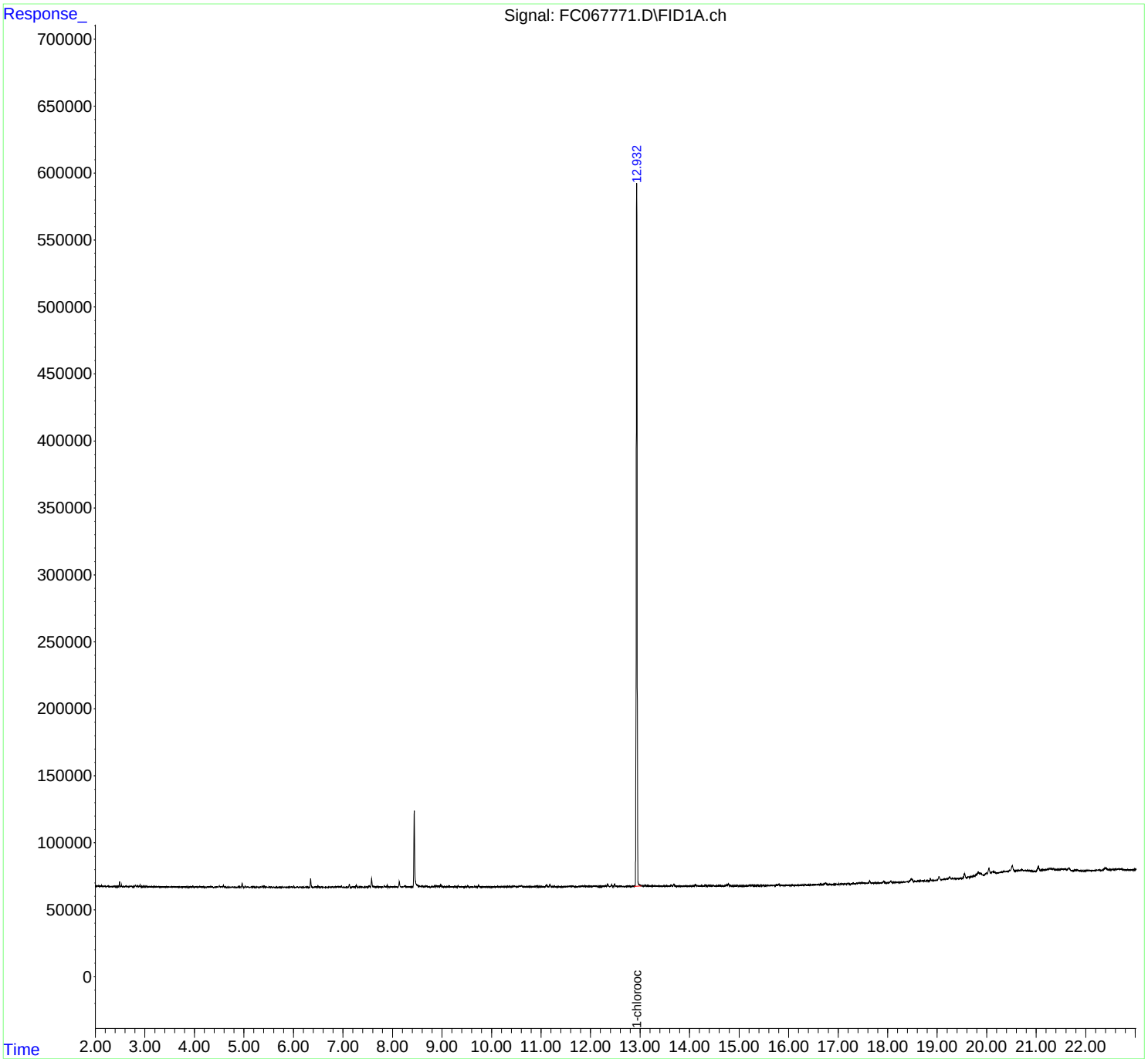
(f)=RT Delta > 1/2 Window (m)=manual int.

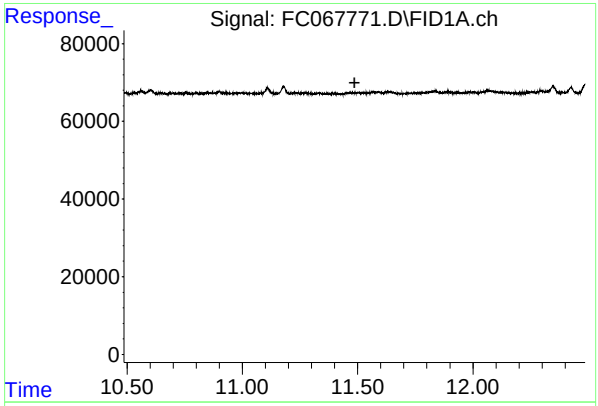
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067771.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:09
Operator : YP/AJ
Sample : PB164996BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164996BL

Integration File: autoint1.e
Quant Time: Nov 16 08:19:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

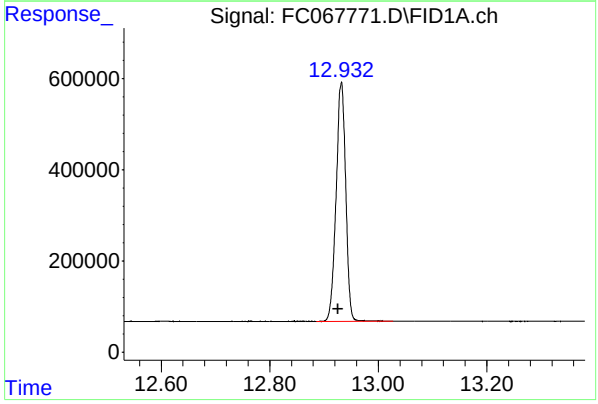




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB164996BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.932 min
Delta R.T.: 0.006 min
Response: 6445763
Conc: 44.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067771.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:09
Sample : PB164996BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	12.932	12.885	13.027	BB	523691	6445763	100.00%	100.000%

Sum of corrected areas: 6445763

Aliphatic EPH 111424.M Sat Nov 16 09:56:16 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB165032BL			SDG No.:	P4839
Lab Sample ID:	PB165032BL			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/18/24 15:27	PB165032

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	FC067807.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067807.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067807.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067807.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067807.D

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:	ENTACT			Date Collected:			
Project:	North Point			Date Received:			
Client Sample ID:	PB165032BL			SDG No.:	P4839		
Lab Sample ID:	PB165032BL			Matrix:	Solid		
Analytical Method:	NJEPH			% Solid:	100		
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	2000	uL	
Soil Aliquot Vol:			uL	Test:	EPH		
Prep Method :							

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/18/24 15:27	PB165032

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	FC067807.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067807.D
Aliphatic C16-C21	Aliphatic C16-C21	0.30	U	1	0.30	1.00	mg/kg	FC067807.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067807.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067807.D
Aromatic C10-C12	Aromatic C10-C12	0.30	U	1	0.30	0.67	mg/kg	FD048766.D
Aromatic C12-C16	Aromatic C12-C16	0.34	U	1	0.34	1.00	mg/kg	FD048766.D
Aromatic C16-C21	Aromatic C16-C21	0.96	U	1	0.96	1.67	mg/kg	FD048766.D
Aromatic C21-C36	Aromatic C21-C36	2.00	U	1	2.00	2.67	mg/kg	FD048766.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

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Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165032BL		SDG No.:	P4839	
Lab Sample ID:	PB165032BL		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
FC067807.D	1	11/16/24	11/18/24	PB165032

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)	37.7		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB165032BL	Acq On:	18 Nov 2024 15:27
Client Sample ID:	PB165032BL	Operator:	YP/AJ
Data file:	FC067807.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	3.172	6.448	0	0	300	ug/ml
Aliphatic C12-C16	6.449	9.838	0	0	200	ug/ml
Aliphatic C16-C21	9.839	13.196	0	0	300	ug/ml
Aliphatic C21-C28	13.197	16.850	0	0	400	ug/ml
Aliphatic C28-C40	16.851	21.691	0	0	600	ug/ml
Aliphatic EPH	3.172	21.691	0	0		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	5471332	37.69		ug/ml
Aliphatic C9-C28	3.172	16.850	0	0	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 04:55:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
12) S 1-chlorooctadecane (S...	12.930	5471332	37.691 ug/ml
Spiked Amount 50.000		Recovery = 75.38%	
Target Compounds			

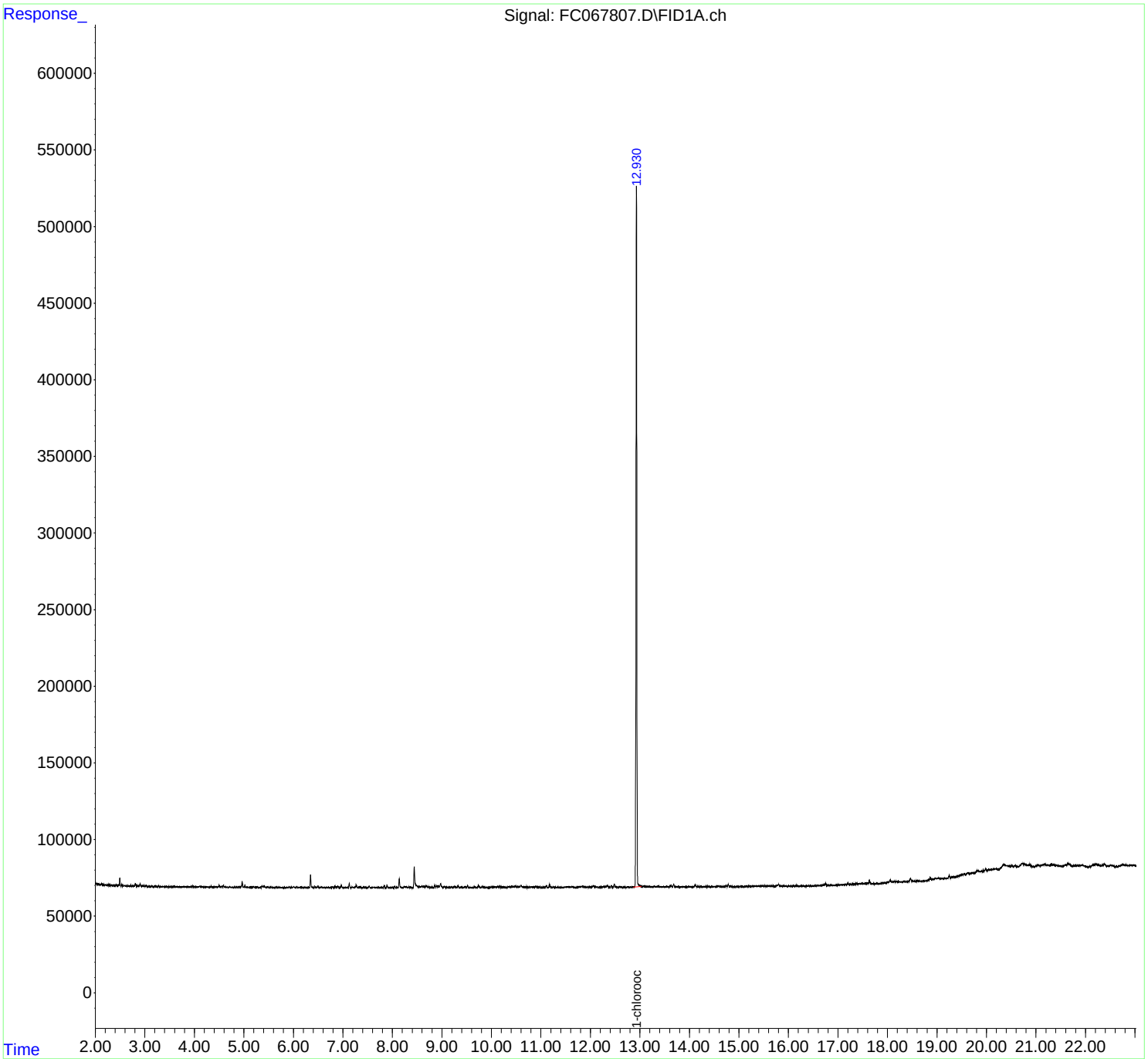
(f)=RT Delta > 1/2 Window (m)=manual int.

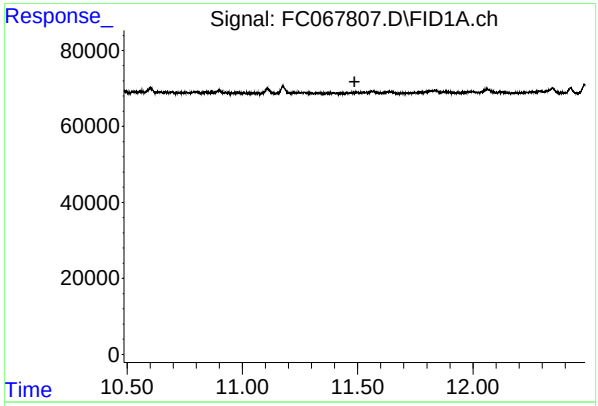
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 04:55:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

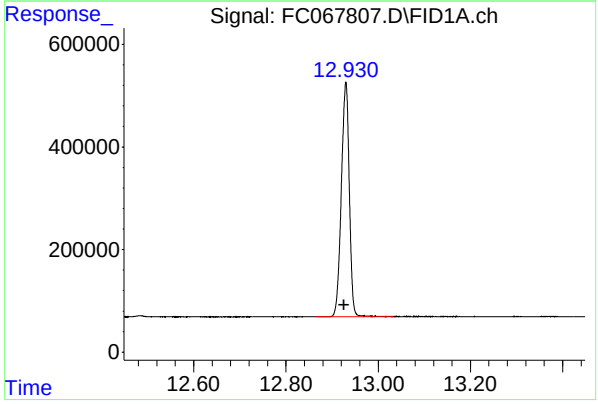




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min
Exp R.T. : 11.486 min
Response: 0
Conc: N.D.

Instrument :
FID_C
ClientSampleId :
PB165032BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.930 min
Delta R.T.: 0.004 min
Response: 5471332
Conc: 37.69 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067807.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 15:27
Sample : PB165032BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	12.930	12.865	13.032	BB	459778	5471332	100.00%	100.000%

Sum of corrected areas: 5471332

Aliphatic EPH 111424.M Tue Nov 19 05:23:19 2024

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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165032BL		SDG No.:	P4839	
Lab Sample ID:	PB165032BL		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
FD048766.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	0.30	U	0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	0.34	U	0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	0.96	U	0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	2.00	U	2.00	2.67	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	52.1		40 - 140	104%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	51.2		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.9		40 - 140	96%	SPK: 50

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Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165032BL	Acq On:	18 Nov 2024 15:27
Client Sample ID:	PB165032BL	Operator:	YP/AJ
Data file:	FD048766.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	4.088	5.805	0	0	200	ug/ml
Aromatic C12-C16	5.806	8.411	0	0	300	ug/ml
Aromatic C16-C21	8.412	12.674	0	0	500	ug/ml
Aromatic C21-C36	12.675	18.081	0	0	800	ug/ml
Aromatic EPH	4.088	18.081	0	0		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	9167743	52.07		ug/ml
2-Flurobiphenyl (SURR)	8.216	8.216	5897989	51.21		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	9202508	47.85		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 05:55:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) S 2-Bromonaphthalene (S...	7.367	9167743	52.072 ug/ml
Spiked Amount 50.000		Recovery = 104.14%	
6) S 2-Flurobiphenyl (SURR)	8.216	5897989	51.211 ug/ml
Spiked Amount 50.000 Range 0 - 131		Recovery = 102.42%	
11) S ortho-Terphenyl (SURR)	11.255	9202508	47.846 ug/ml
Spiked Amount 50.000		Recovery = 95.69%	
Target Compounds			

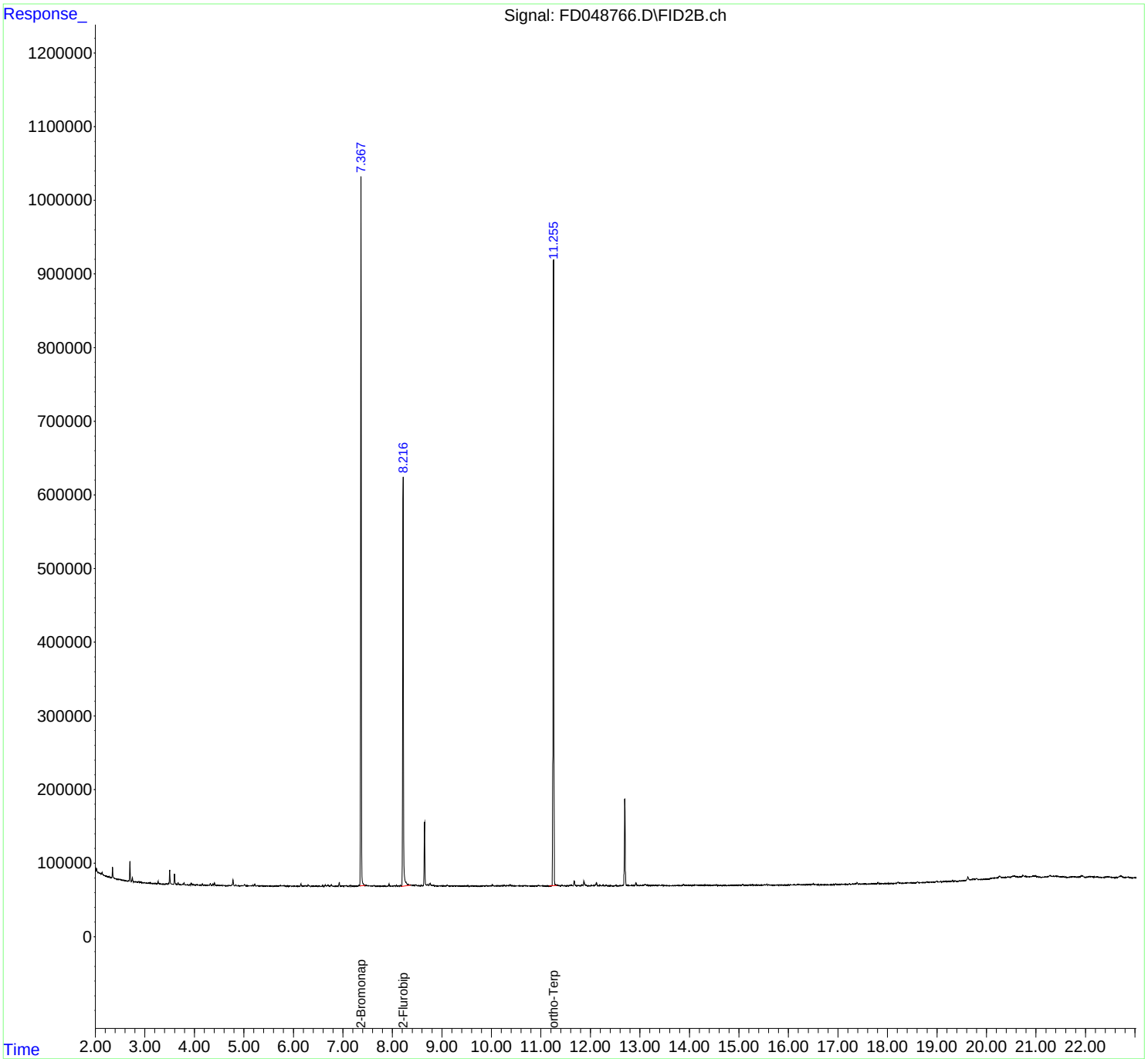
(f)=RT Delta > 1/2 Window (m)=manual int.

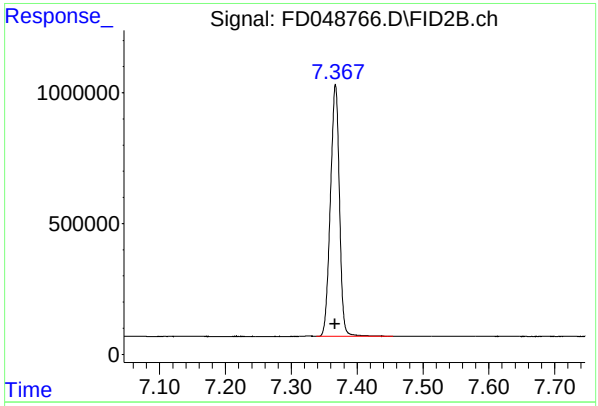
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Operator : YP/AJ
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165032BL

Integration File: sample.E
Quant Time: Nov 19 05:55:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

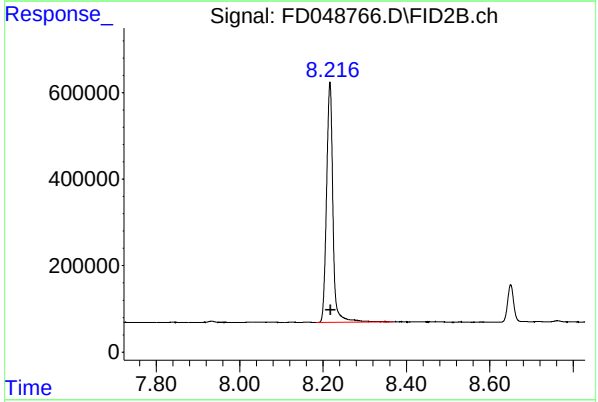




#4 2-Bromonaphthalene (SURR)

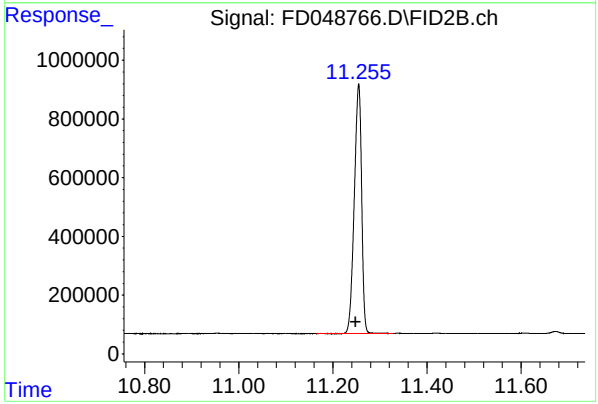
R.T.: 7.367 min
Delta R.T.: 0.000 min
Response: 9167743
Conc: 52.07 ug/ml

Instrument :
FID_D
ClientSampleId :
PB165032BL



#6 2-Flurobiphenyl (SURR)

R.T.: 8.216 min
Delta R.T.: -0.002 min
Response: 5897989
Conc: 51.21 ug/ml



#11 ortho-Terphenyl (SURR)

R.T.: 11.255 min
Delta R.T.: 0.006 min
Response: 9202508
Conc: 47.85 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048766.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 15:27
Sample : PB165032BL
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	7.367	7.338	7.454	VB	966257	9167743	99.62%	37.777%
2	8.216	8.183	8.368	PB	559678	5897989	64.09%	24.303%
3	11.255	11.164	11.328	BV	849454	9202508	100.00%	37.920%

Sum of corrected areas: 24268241

Aromatic EPH 111424.M Tue Nov 19 06:16:19 2024

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Fax : 908 789 8922

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164996BS		SDG No.:	P4839	
Lab Sample ID:	PB164996BS		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
FD048741.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.54		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.71		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.6		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	30.5		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	48.3		40 - 140	96%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.1		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.4		40 - 140	89%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164996BS	Acq On:	15 Nov 2024 12:45
Client Sample ID:	PB164996BS	Operator:	YP/AJ
Data file:	FD048741.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	4.088	5.805	13076061	68.098	200	ug/ml
Aromatic C12-C16	5.806	8.411	25157983	130.719	300	ug/ml
Aromatic C16-C21	8.412	12.674	49161531	264.587	500	ug/ml
Aromatic C21-C36	12.675	18.081	72080224	458.435	800	ug/ml
Aromatic EPH	4.088	18.081	159475799	921.839		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	8545665	44.43		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	8494993	48.25		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5076397	44.08		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048741.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:45
Operator : YP/AJ
Sample : PB164996BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164996BS

Integration File: sample.E
Quant Time: Nov 16 10:08:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4)	S 2-Bromonaphthalene (S...	7.367	8494993	48.251 ug/ml
	Spiked Amount 50.000		Recovery =	96.50%
6)	S 2-Flurobiphenyl (SURR)	8.217	5076397	44.077 ug/ml
	Spiked Amount 50.000 Range 0 - 131		Recovery =	88.15%
11)	S ortho-Terphenyl (SURR)	11.254	8545665	44.431 ug/ml
	Spiked Amount 50.000		Recovery =	88.86%
	Target Compounds			
1)	T 1,2,3-Trimethylbenzen...	4.189	5578760	29.602 ug/ml
2)	T Naphthalene (C11.7)	5.706	6611334	33.805 ug/ml
3)	T 2-Methylnaphthalene (...	6.753	6617351	34.627 ug/ml
5)	T Acenaphthylene (C15.06)	8.020	7962912	41.062 ug/ml
7)	T Acenaphthene (C15.5)	8.315	8385744	43.597 ug/ml
8)	T Flouorene (C16.55)	9.094	8616366	44.911 ug/ml
9)	T Phenanthrene (C19.36)	10.482	8832911	48.188 ug/ml
10)	T Anthracene (C19.43)	10.558	8969015	47.894 ug/ml
12)	T Fluoranthene (C21.85)	12.288	10096402	55.135 ug/ml
13)	T Pyrene (C20.8)	12.581	8872328	49.074 ug/ml
14)	T Benzo[a]anthracene (C...	14.452	8553986	51.999 ug/ml
15)	T Chrysene (C27.41)	14.495	8486471	48.490 ug/ml
16)	T benzo[b]fluoranthene ...	16.000	8234792	52.411 ug/ml
17)	T Bnezo[k]fluoranthene ...	16.035	8182975	50.142 ug/ml
18)	T Benzo[a]pyrene (C31.34)	16.376	7796126	52.289 ug/ml
19)	T Indeno[1,2,3-cd]pyren...	17.744	7580647	61.367 ug/ml
20)	T Dibenz[a,h]anthracene...	17.780	7233858	46.130 ug/ml
21)	T Benzo[g,h,i]perylene ...	17.995	7168191	50.237 ug/ml

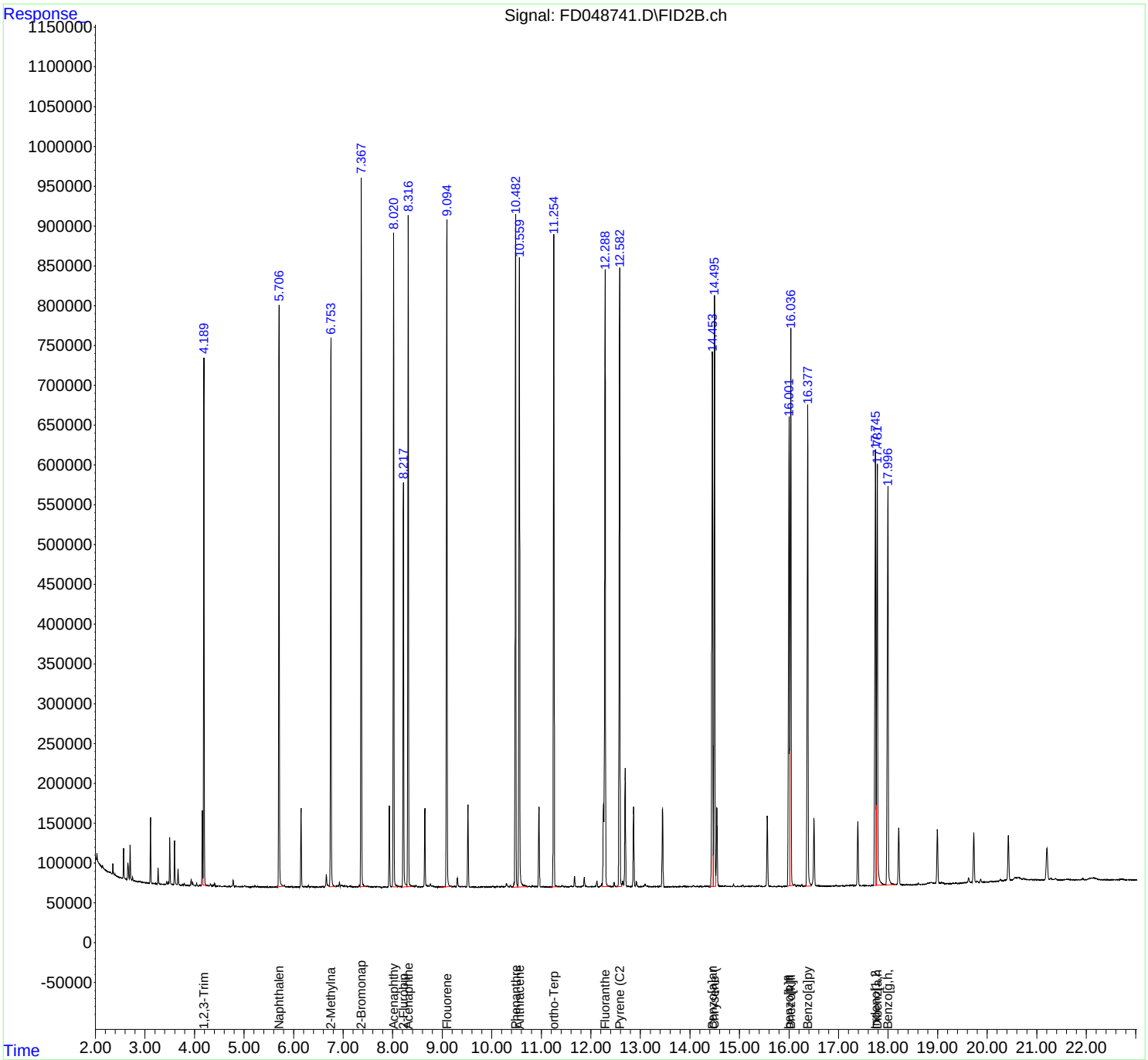
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048741.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:45
Operator : YP/AJ
Sample : PB164996BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164996BS

Integration File: sample.E
Quant Time: Nov 16 10:08:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048741.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 12:45
Sample : PB164996BS
Misc :
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	2.031	2.018	2.130	BV	8806	49507	0.49%	0.027%
2	2.352	2.333	2.384	PV	13443	112823	1.12%	0.061%
3	2.568	2.518	2.633	BV	37686	291517	2.89%	0.158%
4	2.655	2.633	2.683	PV	20906	265730	2.63%	0.144%
5	2.700	2.683	2.734	VV	43201	355139	3.52%	0.192%
6	3.112	3.058	3.178	BB	82188	664445	6.58%	0.360%
7	3.265	3.241	3.321	BB	20325	165271	1.64%	0.089%
8	3.500	3.483	3.571	VB	58074	497478	4.93%	0.269%
9	3.596	3.571	3.647	BV	55445	473083	4.69%	0.256%
10	3.668	3.647	3.731	VB	20162	176421	1.75%	0.096%
11	3.932	3.858	3.950	BV	5933	49394	0.49%	0.027%
12	4.158	4.141	4.171	BV	93545	785128	7.78%	0.425%
13	4.189	4.171	4.254	VV	657148	5578760	55.25%	3.021%
14	4.781	4.648	4.814	BV	7903	100839	1.00%	0.055%
15	5.706	5.651	5.794	BV	730156	6611334	65.48%	3.580%
16	6.151	6.114	6.204	BB	98728	950382	9.41%	0.515%
17	6.662	6.611	6.721	BV	15451	210662	2.09%	0.114%
18	6.753	6.721	6.858	VB	694511	6617351	65.54%	3.583%
19	7.367	7.338	7.458	VB	898304	8494993	84.14%	4.600%
20	7.934	7.868	7.989	BBA	101641	1030932	10.21%	0.558%
21	8.020	7.991	8.104	BV	827357	7962912	78.87%	4.311%
22	8.217	8.187	8.288	PV	506200	5076397	50.28%	2.749%
23	8.315	8.288	8.408	VB	836562	8385744	83.06%	4.540%
24	8.651	8.598	8.698	PV	98308	978921	9.70%	0.530%
25	9.094	8.964	9.198	BB	838776	8616366	85.34%	4.665%
26	9.307	9.281	9.378	BB	11036	149211	1.48%	0.081%
27	9.521	9.484	9.568	BV	102748	1096879	10.86%	0.594%
28	10.482	10.414	10.523	BV	834892	8832911	87.49%	4.782%
29	10.558	10.523	10.728	VB	788191	8969015	88.83%	4.856%
30	10.954	10.908	10.988	BB	100130	1141986	11.31%	0.618%
31	11.254	11.184	11.318	BV	821152	8545665	84.64%	4.627%
32	11.673	11.638	11.732	BV	12930	158089	1.57%	0.086%
33	11.868	11.847	11.935	VB	11922	151765	1.50%	0.082%
34	12.122	12.034	12.158	BV	7202	97658	0.97%	0.053%
35	12.288	12.229	12.364	VB	771904	10096402	100.00%	5.467%
36	12.581	12.511	12.624	BV	777656	8872328	87.88%	4.804%

rteres

37	12.693	12.663	12.771	VB	148975	1732602	17.16%	0.938%
38	12.863	12.791	12.893	BV	99251	1170185	11.59%	0.634%
39	12.917	12.893	12.988	VB	6757	91108	0.90%	0.049%
40	13.446	13.414	13.488	PB	98322	1180789	11.70%	0.639%
41	14.452	14.381	14.470	BV	667095	8553986	84.72%	4.631%
42	14.495	14.470	14.520	VV	735427	8486471	84.05%	4.595%
43	14.543	14.520	14.618	VB	97893	1269228	12.57%	0.687%
44	15.560	15.474	15.628	BB	88430	1137191	11.26%	0.616%
45	16.000	15.961	16.015	BV	591232	8234792	81.56%	4.459%
46	16.035	16.015	16.094	VV	689373	8182975	81.05%	4.431%
47	16.376	16.301	16.451	BV	613014	7796126	77.22%	4.221%
48	16.503	16.451	16.578	VB	84493	1186510	11.75%	0.642%
49	17.388	17.318	17.451	BB	80767	1075565	10.65%	0.582%
50	17.744	17.701	17.758	BV	548946	7580647	75.08%	4.104%
51	17.780	17.758	17.951	VV	529793	7233858	71.65%	3.917%
52	17.995	17.951	18.151	VB	497646	7168191	71.00%	3.881%

Sum of corrected areas: 184693660

Aromatic EPH 111424.M Sat Nov 16 10:25:56 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB164996BS			SDG No.:	P4839
Lab Sample ID:	PB164996BS			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
11/14/24 14:15	11/15/24 12:45	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	4.80		1	0.38	1.00	mg/kg	FC067772.D
Aliphatic C12-C16	Aliphatic C12-C16	4.74		1	0.24	0.67	mg/kg	FC067772.D
Aliphatic C16-C21	Aliphatic C16-C21	7.88		1	0.30	1.00	mg/kg	FC067772.D
Aliphatic C21-C28	Aliphatic C21-C28	10.6		1	0.80	1.33	mg/kg	FC067772.D
Aliphatic C28-C40	Aliphatic C28-C40	18.0		1	1.80	2.00	mg/kg	FC067772.D
Aromatic C10-C12	Aromatic C10-C12	4.54		1	0.30	0.67	mg/kg	FD048741.D
Aromatic C12-C16	Aromatic C12-C16	8.71		1	0.34	1.00	mg/kg	FD048741.D
Aromatic C16-C21	Aromatic C16-C21	17.6		1	0.96	1.67	mg/kg	FD048741.D
Aromatic C21-C36	Aromatic C21-C36	30.5		1	2.00	2.66	mg/kg	FD048741.D
Total AliphaticEPH	Total AliphaticEPH	46.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	61.4			3.60	6.00	mg/kg	
Total EPH	Total EPH	107			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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB164996BS			SDG No.:	P4839
Lab Sample ID:	PB164996BS			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
11/14/24 14:15	11/15/24 12:45	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	4.80		1	0.38	1.00	mg/kg	FC067772.D
Aliphatic C12-C16	Aliphatic C12-C16	4.74		1	0.24	0.67	mg/kg	FC067772.D
Aliphatic C16-C21	Aliphatic C16-C21	7.88		1	0.30	1.00	mg/kg	FC067772.D
Aliphatic C21-C28	Aliphatic C21-C28	10.6		1	0.80	1.33	mg/kg	FC067772.D
Aliphatic C28-C40	Aliphatic C28-C40	18.0		1	1.80	2.00	mg/kg	FC067772.D
Aromatic C10-C12	Aromatic C10-C12	4.54		1	0.30	0.67	mg/kg	FD048741.D
Aromatic C12-C16	Aromatic C12-C16	8.71		1	0.34	1.00	mg/kg	FD048741.D
Aromatic C16-C21	Aromatic C16-C21	17.6		1	0.96	1.67	mg/kg	FD048741.D
Aromatic C21-C36	Aromatic C21-C36	30.5		1	2.00	2.66	mg/kg	FD048741.D
Total AliphaticEPH	Total AliphaticEPH	46.0			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	61.4			3.60	6.00	mg/kg	
Total EPH	Total EPH	107			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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164996BS		SDG No.:	P4839	
Lab Sample ID:	PB164996BS		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
FC067772.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	4.80		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	4.74		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	7.88		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.6		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.0		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.7		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164996BS	Acq On:	15 Nov 2024 12:45
Client Sample ID:	PB164996BS	Operator:	YP/AJ
Data file:	FC067772.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	101931535	691.075		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	5039794	34.72		ug/ml
Aliphatic C9-C12	3.172	6.448	11949325	72.074	300	ug/ml
Aliphatic C12-C16	6.449	9.838	12123440	71.153	200	ug/ml
Aliphatic C16-C21	9.839	13.196	20052197	118.217	300	ug/ml
Aliphatic C21-C28	13.197	16.850	25106165	159.627	400	ug/ml
Aliphatic C28-C40	16.851	21.693	32700408	270.003	600	ug/ml
Aliphatic C9-C28	3.172	16.850	69231127	421.071	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067772.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:45
Operator : YP/AJ
Sample : PB164996BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164996BS

Integration File: autoint1.e
Quant Time: Nov 16 08:20:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.930	5039794	34.719 ug/ml
Spiked Amount	50.000		Recovery =	69.44%
	Target Compounds			
1) T	n-Nonane (C9)	3.271	2979949	18.269 ug/ml
2) T	n-Decane (C10)	4.334	3772625	22.750 ug/ml
4) T	n-Dodecane (C12)	6.348	4610887	27.376 ug/ml
6) T	n-Tetradecane (C14)	8.141	5330678	31.830 ug/ml
7) T	n-Hexadecane (C16)	9.739	5992895	34.582 ug/ml
8) T	n-Octadecane (C18)	11.180	6534740	37.142 ug/ml
10) T	n-Eicosane (C20)	12.488	6844600	40.648 ug/ml
11) T	n-Heneicosane (C21)	13.099	6627744	40.281 ug/ml
13) T	n-Docosane (C22)	13.684	6571669	40.353 ug/ml
14) T	n-Tetracosane (C24)	14.785	6400178	39.906 ug/ml
15) T	n-Hexacosane (C26)	15.805	6155683	39.750 ug/ml
16) T	n-Octacosane (C28)	16.752	5978635	39.587 ug/ml
17) T	n-Tricontane (C30)	17.639	5815635	37.984 ug/ml
18) T	n-Dotriacontane (C32)	18.470	5643225	38.210 ug/ml
19) T	n-Tetratriacontane (C34)	19.252	5494987	43.566 ug/ml
20) T	n-Hexatriacontane (C36)	19.991	5291435	50.594 ug/ml
21) T	n-Octatriacontane (C38)	20.713	5214687	53.383 ug/ml
22) T	n-Tetracontane (C40)	21.599	5179174	53.138 ug/ml

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

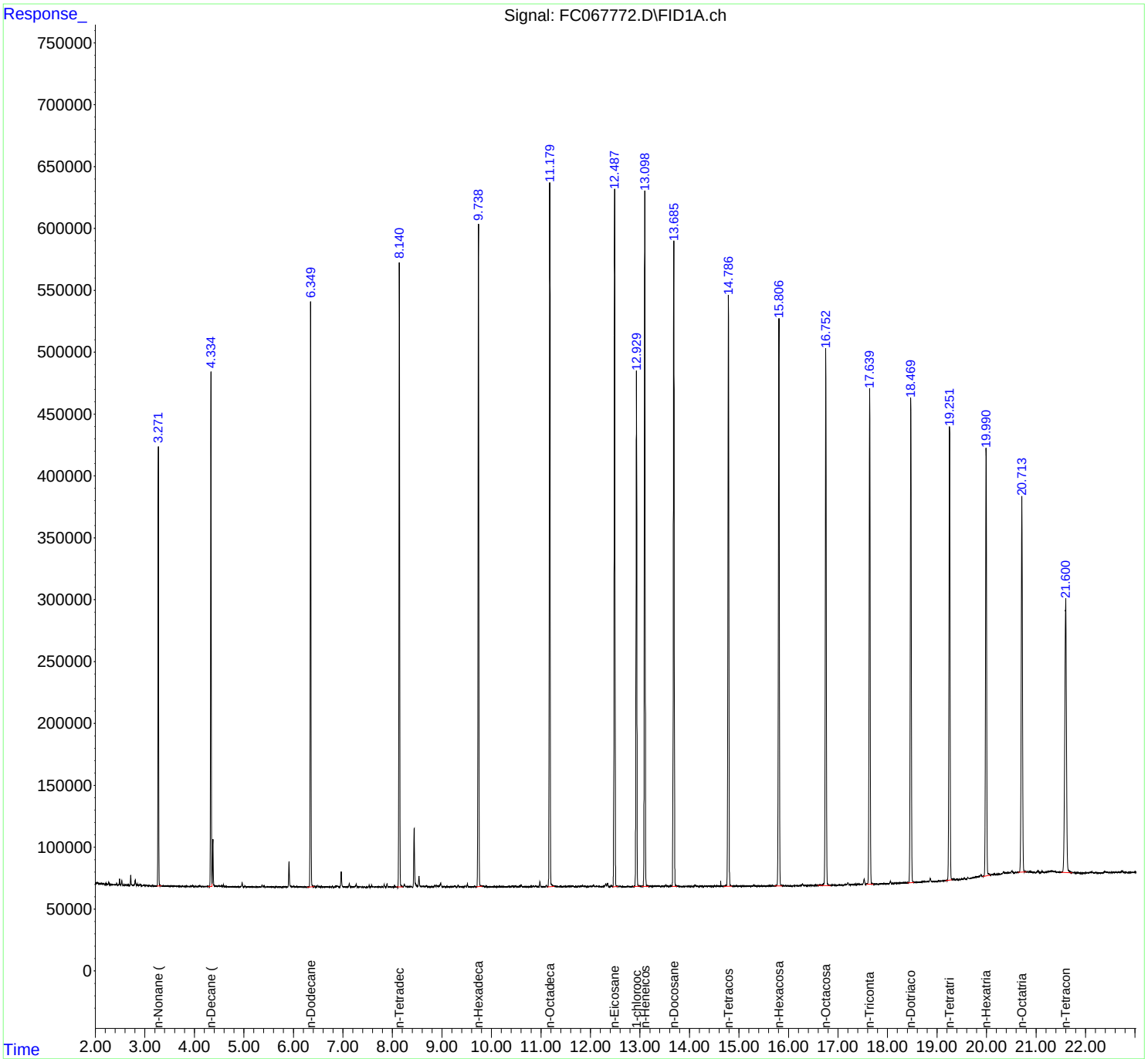
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067772.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:45
Operator : YP/AJ
Sample : PB164996BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164996BS

Integration File: autoint1.e
Quant Time: Nov 16 08:20:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111524AL\
Data File : FC067772.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 12:45
Sample : PB164996BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.271	3.245	3.325	BB	356295	2979949	43.54%	2.786%
2	4.334	4.279	4.358	BV	415345	3772625	55.12%	3.527%
3	4.374	4.358	4.420	VB	38138	345194	5.04%	0.323%
4	4.965	4.907	4.989	BB	3480	40225	0.59%	0.038%
5	5.912	5.862	5.950	BB	20430	200445	2.93%	0.187%
6	6.348	6.287	6.415	BV	472042	4610887	67.37%	4.310%
7	6.966	6.927	7.029	BB	12443	147717	2.16%	0.138%
8	8.141	8.084	8.214	BB	504394	5330678	77.88%	4.983%
9	8.440	8.397	8.507	BV	47616	555670	8.12%	0.519%
10	8.538	8.507	8.574	VV	8485	96480	1.41%	0.090%
11	9.739	9.690	9.819	BB	535043	5992895	87.56%	5.602%
12	10.980	10.934	11.025	BB	3931	45113	0.66%	0.042%
13	11.180	11.139	11.270	BB	568055	6534740	95.47%	6.109%
14	12.488	12.442	12.559	PB	562376	6844600	100.00%	6.399%
15	12.930	12.865	12.997	BB	416595	5039794	73.63%	4.711%
16	13.099	13.037	13.182	BB	558834	6627744	96.83%	6.196%
17	13.684	13.645	13.752	PB	521035	6571669	96.01%	6.143%
18	14.785	14.695	14.857	BB	476858	6400178	93.51%	5.983%
19	15.805	15.717	15.879	BB	451631	6155683	89.93%	5.755%
20	16.752	16.587	16.839	BB	432257	5978635	87.35%	5.589%
21	17.527	17.465	17.565	BB	4110	61265	0.90%	0.057%
22	17.639	17.574	17.707	BB	399989	5815635	84.97%	5.437%
23	18.470	18.402	18.535	BB	389428	5643225	82.45%	5.275%
24	19.252	19.172	19.307	BB	365964	5494987	80.28%	5.137%
25	19.991	19.929	20.079	BB	343156	5291435	77.31%	4.947%
26	20.713	20.635	20.797	BB	303654	5214687	76.19%	4.875%
27	21.599	21.509	21.727	BB	221253	5179174	75.67%	4.842%

Sum of corrected areas: 106971331

Aliphatic EPH 111424.M Sat Nov 16 09:56:30 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165032BS		SDG No.:	P4839	
Lab Sample ID:	PB165032BS		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
11/16/24 09:30	11/18/24 16:03	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.39		1	0.38	1.00	mg/kg	FC067808.D
Aliphatic C12-C16	Aliphatic C12-C16	5.31		1	0.24	0.67	mg/kg	FC067808.D
Aliphatic C16-C21	Aliphatic C16-C21	8.07		1	0.30	1.00	mg/kg	FC067808.D
Aliphatic C21-C28	Aliphatic C21-C28	10.4		1	0.80	1.33	mg/kg	FC067808.D
Aliphatic C28-C40	Aliphatic C28-C40	17.7		1	1.80	2.00	mg/kg	FC067808.D

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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB165032BS			SDG No.:	P4839
Lab Sample ID:	PB165032BS			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
11/16/24 09:30	11/18/24 16:03	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.39		1	0.38	1.00	mg/kg	FC067808.D
Aliphatic C12-C16	Aliphatic C12-C16	5.31		1	0.24	0.67	mg/kg	FC067808.D
Aliphatic C16-C21	Aliphatic C16-C21	8.07		1	0.30	1.00	mg/kg	FC067808.D
Aliphatic C21-C28	Aliphatic C21-C28	10.4		1	0.80	1.33	mg/kg	FC067808.D
Aliphatic C28-C40	Aliphatic C28-C40	17.7		1	1.80	2.00	mg/kg	FC067808.D
Aromatic C10-C12	Aromatic C10-C12	5.16		1	0.30	0.67	mg/kg	FD048767.D
Aromatic C12-C16	Aromatic C12-C16	9.14		1	0.34	1.00	mg/kg	FD048767.D
Aromatic C16-C21	Aromatic C16-C21	16.7		1	0.96	1.67	mg/kg	FD048767.D
Aromatic C21-C36	Aromatic C21-C36	26.3		1	2.00	2.66	mg/kg	FD048767.D
Total AliphaticEPH	Total AliphaticEPH	47.9			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	57.3			3.60	6.00	mg/kg	
Total EPH	Total EPH	105			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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165032BS		SDG No.:	P4839	
Lab Sample ID:	PB165032BS		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
FC067808.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.39		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.31		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.07		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.4		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.7		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.6		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB165032BS	Acq On:	18 Nov 2024 16:03
Client Sample ID:	PB165032BS	Operator:	YP/AJ
Data file:	FC067808.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	15894235	95.869	300	ug/ml
Aliphatic C12-C16	6.449	9.838	13573417	79.663	200	ug/ml
Aliphatic C16-C21	9.839	13.196	20548561	121.144	300	ug/ml
Aliphatic C21-C28	13.197	16.850	24590035	156.346	400	ug/ml
Aliphatic C28-C40	16.851	21.691	32108741	265.118	600	ug/ml
Aliphatic EPH	3.172	21.691	106714989	718.139		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	4728305	32.57		ug/ml
Aliphatic C9-C28	3.172	16.850	74606248	453.022	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165032BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.930	4728305	32.573 ug/ml
Spiked Amount	50.000		Recovery =	65.15%
	Target Compounds			
1) T	n-Nonane (C9)	3.275	4201336	25.757 ug/ml
2) T	n-Decane (C10)	4.336	5318827	32.074 ug/ml
4) T	n-Dodecane (C12)	6.350	6374072	37.845 ug/ml
6) T	n-Tetradecane (C14)	8.143	6743982	40.269 ug/ml
7) T	n-Hexadecane (C16)	9.741	6829435	39.409 ug/ml
8) T	n-Octadecane (C18)	11.181	6973343	39.635 ug/ml
10) T	n-Eicosane (C20)	12.489	6948691	41.266 ug/ml
11) T	n-Heneicosane (C21)	13.099	6626527	40.273 ug/ml
13) T	n-Docosane (C22)	13.684	6516169	40.013 ug/ml
14) T	n-Tetracosane (C24)	14.786	6265085	39.064 ug/ml
15) T	n-Hexacosane (C26)	15.804	6001566	38.754 ug/ml
16) T	n-Octacosane (C28)	16.752	5807215	38.452 ug/ml
17) T	n-Tricontane (C30)	17.640	5683424	37.120 ug/ml
18) T	n-Dotriacontane (C32)	18.471	5539429	37.507 ug/ml
19) T	n-Tetratriacontane (C34)	19.252	5319803	42.177 ug/ml
20) T	n-Hexatriacontane (C36)	19.990	5069997	48.476 ug/ml
21) T	n-Octatriacontane (C38)	20.712	5099821	52.207 ug/ml
22) T	n-Tetracontane (C40)	21.596	5079880	52.119 ug/mlm

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

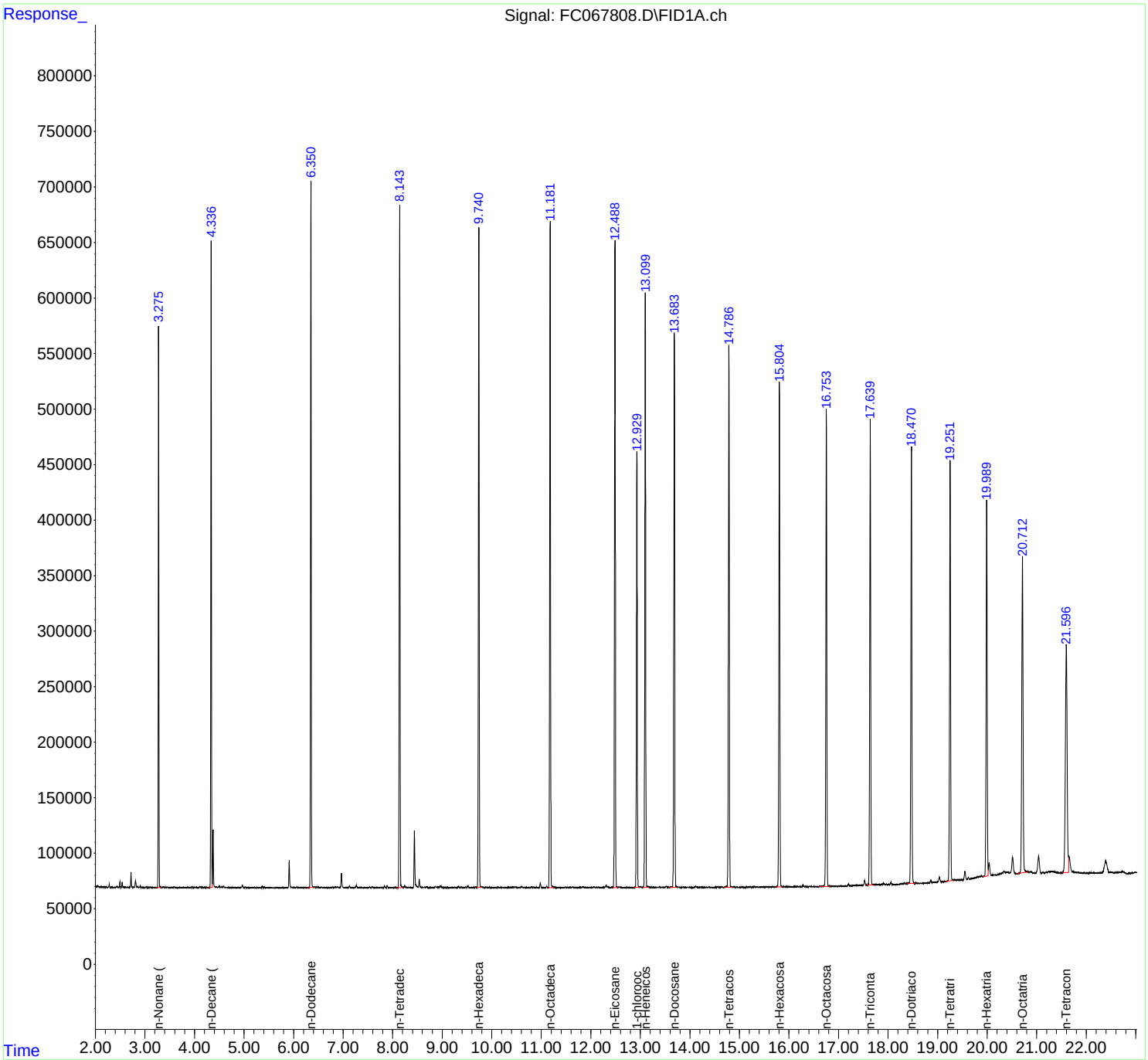
Instrument :
FID_C
ClientSampleId :
PB165032BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_C
ClientSampleId :
PB165032BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067808.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:03
Sample : PB165032BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.275	3.222	3.335	BB	506407	4201336	60.25%	3.770%
2	4.336	4.273	4.359	BV	583096	5318827	76.27%	4.773%
3	6.350	6.283	6.412	BV	635505	6374072	91.41%	5.720%
4	8.143	8.083	8.208	BB	611882	6743982	96.71%	6.051%
5	9.741	9.690	9.802	BB	594045	6829435	97.94%	6.128%
6	11.181	11.137	11.262	BB	599999	6973343	100.00%	6.257%
7	12.489	12.447	12.557	PB	583904	6948691	99.65%	6.235%
8	12.930	12.867	12.990	BB	391881	4728305	67.81%	4.243%
9	13.099	13.058	13.173	BB	532866	6626527	95.03%	5.946%
10	13.684	13.575	13.752	BB	498791	6516169	93.44%	5.847%
11	14.786	14.697	14.857	BB	488980	6265085	89.84%	5.622%
12	15.804	15.727	15.878	BB	452909	6001566	86.06%	5.385%
13	16.752	16.603	16.828	BB	429238	5807215	83.28%	5.211%
14	17.640	17.572	17.713	BB	420967	5683424	81.50%	5.100%
15	18.471	18.390	18.550	BB	393599	5539429	79.44%	4.971%
16	19.252	19.158	19.313	BV	376107	5319803	76.29%	4.774%
17	19.990	19.927	20.022	BV	334276	5069997	72.71%	4.549%
18	20.712	20.597	20.830	BB	283632	5099821	73.13%	4.576%
19	21.598	21.447	21.792	BB	204461	5396267	77.38%	4.842%
			Sum of corrected areas:			111443294		

Aliphatic EPH 111424.M Tue Nov 19 05:23:55 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB165032BS			SDG No.:	P4839
Lab Sample ID:	PB165032BS			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
FD048767.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.16		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.14		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	16.7		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.3		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.1		40 - 140	92%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	41.8		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.3		40 - 140	79%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB165032BS	Acq On:	18 Nov 2024 16:03
Client Sample ID:	PB165032BS	Operator:	YP/AJ
Data file:	FD048767.D	Misc:	
Instrument:	FID_D	ALS Vial:	68
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	14872614	77.454	200	ug/ml
Aromatic C12-C16	5.806	8.411	26402895	137.187	300	ug/ml
Aromatic C16-C21	8.412	12.674	46569863	250.639	500	ug/ml
Aromatic C21-C36	12.675	18.081	62025703	394.488	800	ug/ml
Aromatic EPH	4.088	18.081	149871075	859.768		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	4810184	41.77		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	8116373	46.1		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	7565444	39.33		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165032BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	8116373	46.100 ug/ml
Spiked Amount	50.000		Recovery =	92.20%
6) S	2-Flurobiphenyl (SURR)	8.217	4810184	41.766 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	83.53%
11) S	ortho-Terphenyl (SURR)	11.254	7565444	39.335 ug/ml
Spiked Amount	50.000		Recovery =	78.67%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	6776592	35.957 ug/ml
2) T	Naphthalene (C11.7)	5.707	8096022	41.396 ug/ml
3) T	2-Methylnaphthalene (...	6.754	7937438	41.534 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	9048934	46.662 ug/ml
7) T	Acenaphthene (C15.5)	8.317	9416523	48.956 ug/ml
8) T	Flouorene (C16.55)	9.095	9287223	48.408 ug/ml
9) T	Phenanthrene (C19.36)	10.483	9151486	49.925 ug/ml
10) T	Anthracene (C19.43)	10.560	9193681	49.093 ug/ml
12) T	Fluoranthene (C21.85)	12.289	9152055	49.978 ug/mlm
13) T	Pyrene (C20.8)	12.583	8960843	49.564 ug/ml
14) T	Benzo[a]anthracene (C...	14.453	8425160	51.216 ug/ml
15) T	Chrysene (C27.41)	14.496	8326129	47.574 ug/ml
16) T	benzo[b]fluoranthene ...	16.001	8027372	51.091 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.036	7963511	48.797 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.377	7583422	50.862 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.744	7431556	60.160 ug/ml
20) T	Dibenz[a,h]anthracene...	17.781	7116213	45.380 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.996	7152340	50.126 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Operator : YP/AJ
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

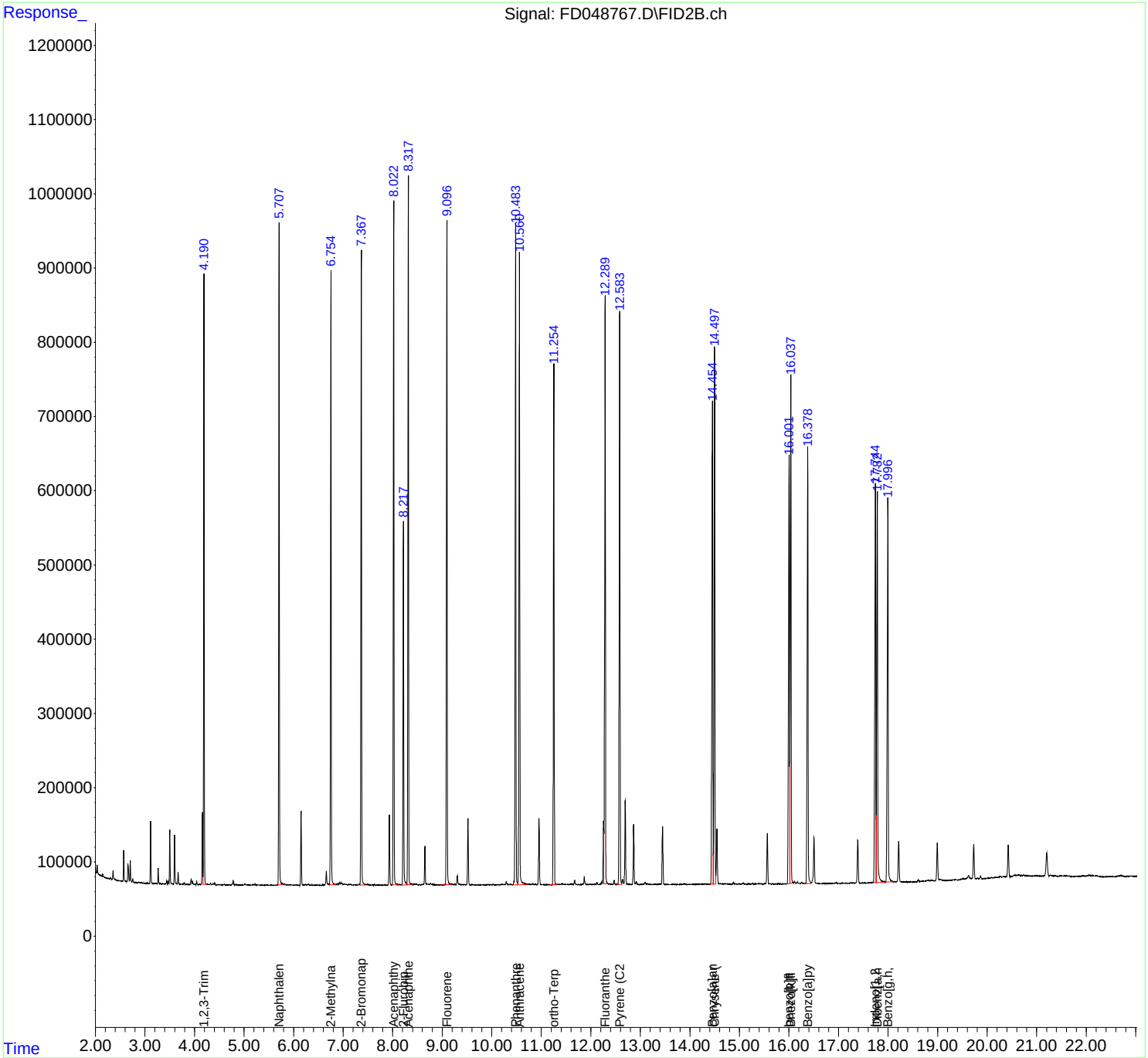
Instrument :
FID_D
ClientSampleId :
PB165032BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
PB165032BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048767.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:03
Sample : PB165032BS
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.191	4.172	4.258	VV	821858	6776592	67.92%	3.978%
2	5.707	5.638	5.798	BV	893368	8096022	81.15%	4.752%
3	6.754	6.721	6.858	VB	827460	7937438	79.56%	4.659%
4	7.367	7.338	7.458	VB	857947	8116373	81.35%	4.764%
5	8.021	7.991	8.111	BB	917429	9048934	90.70%	5.312%
6	8.217	8.184	8.288	PV	489784	4810184	48.21%	2.823%
7	8.317	8.288	8.404	VB	961795	9416523	94.39%	5.527%
8	9.095	8.974	9.201	BB	876354	9287223	93.09%	5.451%
9	10.483	10.418	10.528	BV	900664	9151486	91.73%	5.372%
10	10.560	10.528	10.728	VB	864022	9193681	92.15%	5.397%
11	11.254	11.168	11.324	BV	702134	7565444	75.83%	4.441%
12	12.289	12.230	12.384	VB	783198	9976630	100.00%	5.856%
13	12.583	12.514	12.622	BV	758395	8960843	89.82%	5.260%
14	14.453	14.374	14.472	BV	658669	8425160	84.45%	4.945%
15	14.496	14.472	14.522	VV	729574	8326129	83.46%	4.887%
16	16.001	15.961	16.016	BV	578832	8027372	80.46%	4.712%
17	16.036	16.016	16.095	VV	668081	7963511	79.82%	4.674%
18	16.377	16.288	16.450	BV	589233	7583422	76.01%	4.451%
19	17.744	17.701	17.759	BV	540528	7431556	74.49%	4.362%
20	17.781	17.759	17.951	VB	520450	7116213	71.33%	4.177%
21	17.996	17.951	18.131	BB	504256	7152340	71.69%	4.198%

Sum of corrected areas: 170363077

Aromatic EPH 111424.M Tue Nov 19 06:16:55 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164996BSD		SDG No.:	P4839	
Lab Sample ID:	PB164996BSD		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
FD048742.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	4.35		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	8.03		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	16.2		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	27.9		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	42.8		40 - 140	86%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	44.1		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.1		40 - 140	84%	SPK: 50

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

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	PB164996BSD	Acq On:	15 Nov 2024 13:22
Client Sample ID:	PB164996BSD	Operator:	YP/AJ
Data file:	FD048742.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	4.088	5.805	12527808	65.243	200	ug/ml
Aromatic C12-C16	5.806	8.411	23198653	120.538	300	ug/ml
Aromatic C16-C21	8.412	12.674	45131389	242.897	500	ug/ml
Aromatic C21-C36	12.675	18.081	65953291	419.467	800	ug/ml
Aromatic EPH	4.088	18.081	146811141	848.145		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	7535508	42.8		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5078112	44.09		ug/ml
ortho-Terphenyl (SURR)	11.255	11.255	8088990	42.06		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048742.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:22
Operator : YP/AJ
Sample : PB164996BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164996BSD

Integration File: sample.E
Quant Time: Nov 16 10:09:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	7535508	42.801 ug/ml
Spiked Amount	50.000		Recovery =	85.60%
6) S	2-Flurobiphenyl (SURR)	8.217	5078112	44.092 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	88.18%
11) S	ortho-Terphenyl (SURR)	11.255	8088990	42.057 ug/ml
Spiked Amount	50.000		Recovery =	84.11%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.190	5569068	29.550 ug/ml
2) T	Naphthalene (C11.7)	5.707	6363273	32.536 ug/ml
3) T	2-Methylnaphthalene (...	6.754	6321775	33.080 ug/ml
5) T	Acenaphthylene (C15.06)	8.020	7398949	38.153 ug/ml
7) T	Acenaphthene (C15.5)	8.316	7955131	41.359 ug/ml
8) T	Flouorene (C16.55)	9.094	8124156	42.346 ug/ml
9) T	Phenanthrene (C19.36)	10.482	8346782	45.535 ug/ml
10) T	Anthracene (C19.43)	10.558	8455339	45.151 ug/ml
12) T	Fluoranthene (C21.85)	12.288	9287479	50.717 ug/ml
13) T	Pyrene (C20.8)	12.581	8445026	46.711 ug/ml
14) T	Benzo[a]anthracene (C...	14.452	8086265	49.156 ug/ml
15) T	Chrysene (C27.41)	14.495	8025857	45.859 ug/ml
16) T	benzo[b]fluoranthene ...	16.000	7779552	49.514 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.034	7736756	47.408 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.376	7340060	49.230 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.743	7100744	57.482 ug/ml
20) T	Dibenz[a,h]anthracene...	17.780	6933043	44.212 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.995	6782851	47.537 ug/ml

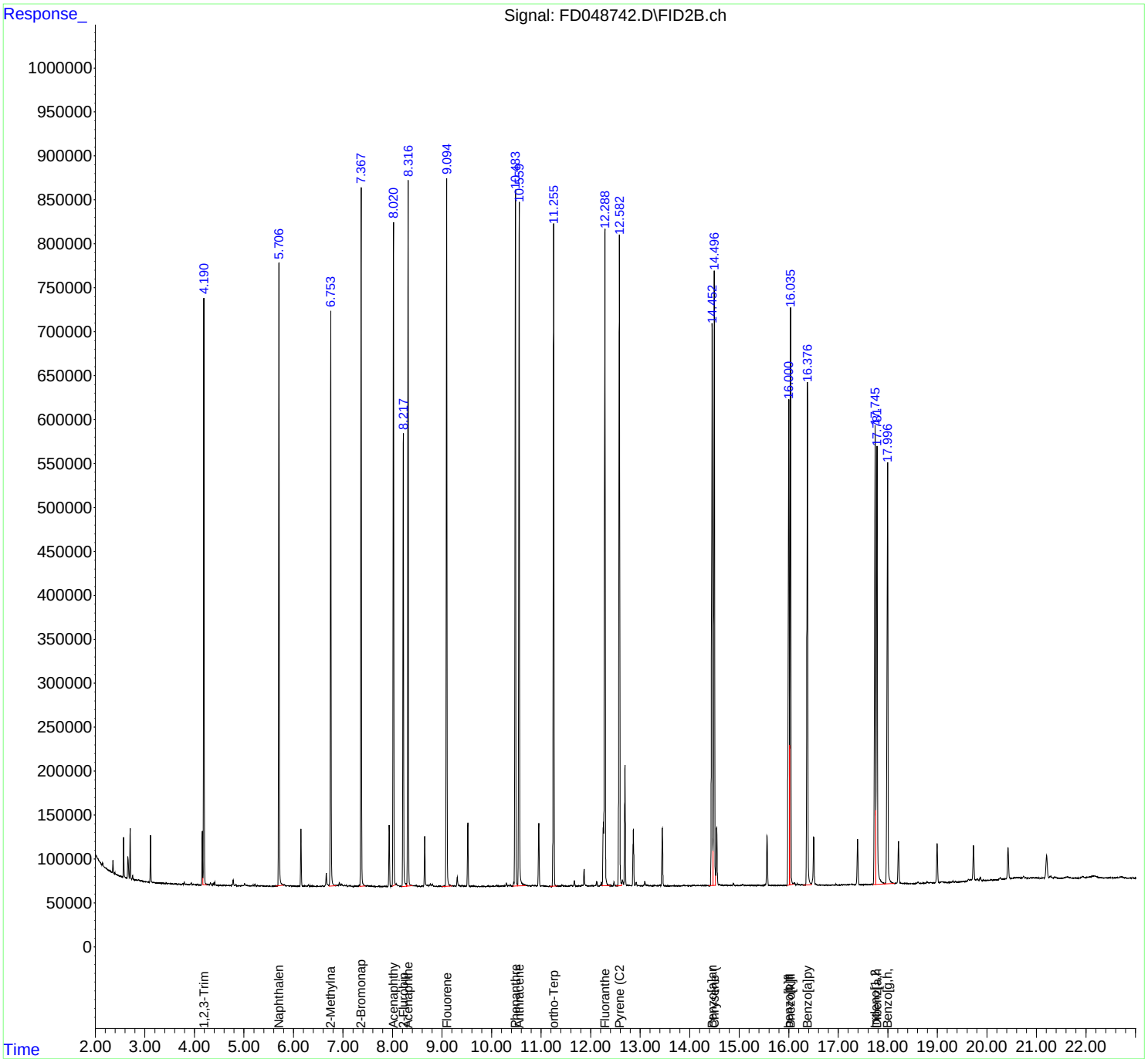
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048742.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:22
Operator : YP/AJ
Sample : PB164996BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB164996BSD

Integration File: sample.E
Quant Time: Nov 16 10:09:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048742.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 13:22
Sample : PB164996BSD
Misc :
ALS Vial : 63 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	2.355	2.337	2.388	PV	14208	102098	1.10%	0.060%
2	2.570	2.511	2.638	BV	43833	341827	3.68%	0.202%
3	2.657	2.638	2.684	PV	23630	306124	3.30%	0.181%
4	2.702	2.684	2.734	VV	57122	455599	4.91%	0.269%
5	3.113	3.058	3.181	BB	52957	443987	4.78%	0.262%
6	4.159	4.141	4.171	BV	60655	513151	5.53%	0.303%
7	4.190	4.171	4.254	VV	663903	5569068	59.96%	3.292%
8	4.782	4.711	4.818	BV	6673	82316	0.89%	0.049%
9	5.707	5.638	5.798	BV	706842	6363273	68.51%	3.762%
10	6.152	6.091	6.214	BB	65226	628318	6.77%	0.371%
11	6.663	6.618	6.719	BV	14589	196154	2.11%	0.116%
12	6.754	6.719	6.868	VB	656227	6321775	68.07%	3.737%
13	7.367	7.337	7.454	VB	800389	7535508	81.14%	4.455%
14	7.934	7.868	7.989	BBA	69839	698326	7.52%	0.413%
15	8.020	7.991	8.064	BV	765033	7398949	79.67%	4.374%
16	8.217	8.188	8.284	BV	516697	5078112	54.68%	3.002%
17	8.316	8.284	8.401	VB	794577	7955131	85.65%	4.703%
18	8.651	8.514	8.698	BV	56493	554888	5.97%	0.328%
19	9.094	8.994	9.201	BB	808767	8124156	87.47%	4.803%
20	9.308	9.274	9.374	PV	10446	145301	1.56%	0.086%
21	9.521	9.454	9.578	BV	72329	751613	8.09%	0.444%
22	10.482	10.421	10.524	BV	782552	8346782	89.87%	4.934%
23	10.558	10.524	10.694	VB	772446	8455339	91.04%	4.998%
24	10.955	10.911	10.984	BV	71272	802206	8.64%	0.474%
25	11.255	11.174	11.321	BB	752102	8088990	87.10%	4.782%
26	11.869	11.847	11.938	VB	18671	218599	2.35%	0.129%
27	12.288	12.231	12.398	VB	747083	9287479	100.00%	5.490%
28	12.581	12.511	12.624	BV	740158	8445026	90.93%	4.992%
29	12.694	12.665	12.761	VB	136638	1571862	16.92%	0.929%
30	12.863	12.791	12.893	BV	63336	757303	8.15%	0.448%
31	13.447	13.414	13.521	PB	65863	783993	8.44%	0.463%
32	14.452	14.378	14.471	BV	631559	8086265	87.07%	4.780%
33	14.495	14.471	14.522	VV	691232	8025857	86.42%	4.744%
34	14.544	14.522	14.621	VB	65629	857565	9.23%	0.507%
35	15.560	15.464	15.628	BB	56388	732402	7.89%	0.433%
36	16.000	15.961	16.015	BV	557975	7779552	83.76%	4.599%

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37	16.034	16.015	16.095	VV	656308	7736756	83.30%	4.574%
38	16.376	16.291	16.454	BV	569378	7340060	79.03%	4.339%
39	16.503	16.454	16.534	VV	54315	751910	8.10%	0.444%
40	17.388	17.188	17.451	BB	52135	713128	7.68%	0.422%
41	17.743	17.701	17.758	BV	528221	7100744	76.46%	4.198%
42	17.780	17.758	17.938	VV	500510	6933043	74.65%	4.098%
43	17.995	17.938	18.134	VB	477573	6782851	73.03%	4.010%

Sum of corrected areas: 169163385

Aromatic EPH 111424.M Sat Nov 16 10:26:09 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB164996BSD			SDG No.:	P4839
Lab Sample ID:	PB164996BSD			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
11/14/24 14:15	11/15/24 13:22	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.33		1	0.38	1.00	mg/kg	FC067773.D
Aliphatic C12-C16	Aliphatic C12-C16	5.16		1	0.24	0.67	mg/kg	FC067773.D
Aliphatic C16-C21	Aliphatic C16-C21	9.20		1	0.30	1.00	mg/kg	FC067773.D
Aliphatic C21-C28	Aliphatic C21-C28	12.3		1	0.80	1.33	mg/kg	FC067773.D
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1	1.80	2.00	mg/kg	FC067773.D
Aromatic C10-C12	Aromatic C10-C12	4.35		1	0.30	0.67	mg/kg	FD048742.D
Aromatic C12-C16	Aromatic C12-C16	8.03		1	0.34	1.00	mg/kg	FD048742.D
Aromatic C16-C21	Aromatic C16-C21	16.2		1	0.96	1.67	mg/kg	FD048742.D
Aromatic C21-C36	Aromatic C21-C36	27.9		1	2.00	2.66	mg/kg	FD048742.D
Total AliphaticEPH	Total AliphaticEPH	53.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	56.5			3.60	6.00	mg/kg	
Total EPH	Total EPH	110			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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB164996BSD			SDG No.:	P4839
Lab Sample ID:	PB164996BSD			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
11/14/24 14:15	11/15/24 13:22	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	5.33		1	0.38	1.00	mg/kg	FC067773.D
Aliphatic C12-C16	Aliphatic C12-C16	5.16		1	0.24	0.67	mg/kg	FC067773.D
Aliphatic C16-C21	Aliphatic C16-C21	9.20		1	0.30	1.00	mg/kg	FC067773.D
Aliphatic C21-C28	Aliphatic C21-C28	12.3		1	0.80	1.33	mg/kg	FC067773.D
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1	1.80	2.00	mg/kg	FC067773.D
Aromatic C10-C12	Aromatic C10-C12	4.35		1	0.30	0.67	mg/kg	FD048742.D
Aromatic C12-C16	Aromatic C12-C16	8.03		1	0.34	1.00	mg/kg	FD048742.D
Aromatic C16-C21	Aromatic C16-C21	16.2		1	0.96	1.67	mg/kg	FD048742.D
Aromatic C21-C36	Aromatic C21-C36	27.9		1	2.00	2.66	mg/kg	FD048742.D
Total AliphaticEPH	Total AliphaticEPH	53.7			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	56.5			3.60	6.00	mg/kg	
Total EPH	Total EPH	110			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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB164996BSD		SDG No.:	P4839	
Lab Sample ID:	PB164996BSD		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
FC067773.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	5.33		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.16		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	9.20		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	12.3		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.7		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.4		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:	PB164996BSD	Acq On:	15 Nov 2024 13:22
Client Sample ID:	PB164996BSD	Operator:	YP/AJ
Data file:	FC067773.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	118443456	806.298		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	5577820	38.43		ug/ml
Aliphatic C9-C12	3.172	6.448	13275194	80.072	300	ug/ml
Aliphatic C12-C16	6.449	9.838	13201648	77.482	200	ug/ml
Aliphatic C16-C21	9.839	13.196	23412071	138.025	300	ug/ml
Aliphatic C21-C28	13.197	16.850	29137561	185.259	400	ug/ml
Aliphatic C28-C40	16.851	21.693	39416982	325.461	600	ug/ml
Aliphatic C9-C28	3.172	16.850	79026474	480.838	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067773.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:22
Operator : YP/AJ
Sample : PB164996BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164996BSD

Integration File: autoint1.e
Quant Time: Nov 16 08:20:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.930	5577820	38.425 ug/ml
Spiked Amount	50.000		Recovery =	76.85%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	3464814	21.242 ug/ml
2) T	n-Decane (C10)	4.335	4377448	26.397 ug/ml
4) T	n-Dodecane (C12)	6.350	5347068	31.747 ug/ml
6) T	n-Tetradecane (C14)	8.142	6211538	37.090 ug/ml
7) T	n-Hexadecane (C16)	9.741	6949655	40.103 ug/ml
8) T	n-Octadecane (C18)	11.181	7594299	43.164 ug/ml
10) T	n-Eicosane (C20)	12.489	8027344	47.672 ug/ml
11) T	n-Heneicosane (C21)	13.100	7732744	46.997 ug/ml
13) T	n-Docosane (C22)	13.685	7673347	47.118 ug/ml
14) T	n-Tetracosane (C24)	14.787	7436465	46.367 ug/ml
15) T	n-Hexacosane (C26)	15.805	7136861	46.085 ug/ml
16) T	n-Octacosane (C28)	16.754	6890888	45.628 ug/ml
17) T	n-Tricontane (C30)	17.639	6720795	43.896 ug/ml
18) T	n-Dotriacontane (C32)	18.472	6518458	44.136 ug/ml
19) T	n-Tetratriacontane (C34)	19.254	6286681	49.843 ug/ml
20) T	n-Hexatriacontane (C36)	19.992	6002915	57.396 ug/ml
21) T	n-Octatriacontane (C38)	20.716	6179487	63.260 ug/ml
22) T	n-Tetracontane (C40)	21.600	6124462	62.837 ug/ml

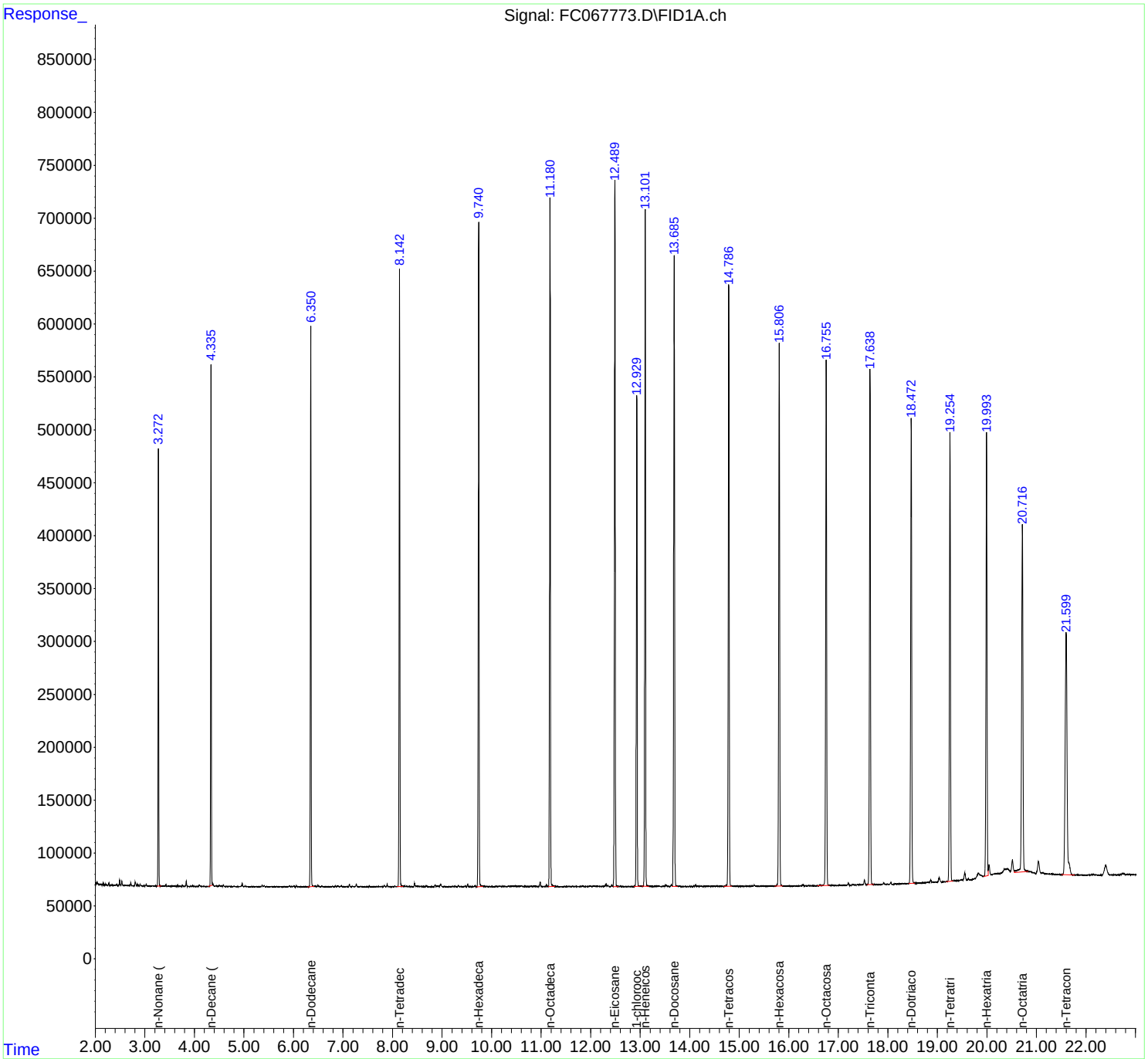
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067773.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:22
Operator : YP/AJ
Sample : PB164996BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164996BSD

Integration File: autoint1.e
Quant Time: Nov 16 08:20:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111524AL\
Data File : FC067773.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 13:22
Sample : PB164996BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.245	3.330	BB	414306	3464814	43.16%	2.794%
2	3.835	3.795	3.877	BB	5163	44840	0.56%	0.036%
3	4.335	4.279	4.365	BV	492653	4377448	54.53%	3.530%
4	4.965	4.894	5.000	BB	3477	41024	0.51%	0.033%
5	6.350	6.289	6.419	BV	531998	5347068	66.61%	4.311%
6	8.142	8.085	8.215	BV	582498	6211538	77.38%	5.008%
7	8.445	8.414	8.490	BB	3289	40455	0.50%	0.033%
8	9.741	9.695	9.825	BB	628133	6949655	86.57%	5.604%
9	10.981	10.874	11.024	BB	4464	57684	0.72%	0.047%
10	11.181	11.142	11.280	BB	641889	7594299	94.61%	6.123%
11	12.489	12.448	12.562	VB	669331	8027344	100.00%	6.473%
12	12.930	12.869	13.004	BB	461424	5577820	69.49%	4.497%
13	13.100	13.030	13.179	BB	632744	7732744	96.33%	6.235%
14	13.685	13.645	13.759	VB	596201	7673347	95.59%	6.187%
15	14.787	14.682	14.855	BB	568541	7436465	92.64%	5.996%
16	15.805	15.712	15.880	BB	512080	7136861	88.91%	5.755%
17	16.754	16.584	16.825	BB	492149	6890888	85.84%	5.556%
18	17.526	17.467	17.560	BB	4723	68312	0.85%	0.055%
19	17.639	17.572	17.717	BB	486936	6720795	83.72%	5.419%
20	18.472	18.420	18.549	BB	436787	6518458	81.20%	5.256%
21	19.038	18.980	19.084	BB	4175	78399	0.98%	0.063%
22	19.254	19.175	19.320	BB	421188	6286681	78.32%	5.069%
23	19.552	19.360	19.594	BV	6855	135450	1.69%	0.109%
24	19.823	19.682	19.932	BB	4378	195563	2.44%	0.158%
25	19.992	19.934	20.025	BV	401566	6002915	74.78%	4.840%
26	20.043	20.025	20.084	VB	9779	166910	2.08%	0.135%
27	20.412	20.095	20.477	BV	4416	404207	5.04%	0.326%
28	20.514	20.477	20.555	VV	12564	272253	3.39%	0.220%
29	20.716	20.555	20.837	VB	328649	6179487	76.98%	4.983%
30	21.040	20.959	21.099	BV	11001	263090	3.28%	0.212%
31	21.600	21.504	21.774	BB	228284	6124462	76.29%	4.938%

Sum of corrected areas: 124021277

Aliphatic EPH 111424.M Sat Nov 16 09:56:42 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:			
Project:	North Point			Date Received:			
Client Sample ID:	PB165032BSD			SDG No.:	P4839		
Lab Sample ID:	PB165032BSD			Matrix:	Solid		
Analytical Method:	NJEPH			% Solid:	100		
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000	uL	
Soil Aliquot Vol:			uL	Test:	EPH		
Prep Method :							

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048768.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	5.24		0.30	0.67	mg/kg
Aromatic C12-C16	Aromatic C12-C16	9.30		0.34	1.00	mg/kg
Aromatic C16-C21	Aromatic C16-C21	17.0		0.96	1.67	mg/kg
Aromatic C21-C36	Aromatic C21-C36	26.7		2.00	2.66	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	46.9		40 - 140	94%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	42.3		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.1		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:	PB165032BSD	Acq On:	18 Nov 2024 16:39
Client Sample ID:	PB165032BSD	Operator:	YP/AJ
Data file:	FD048768.D	Misc:	
Instrument:	FID_D	ALS Vial:	69
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	15119363	78.739	200	ug/ml
Aromatic C12-C16	5.806	8.411	26863944	139.583	300	ug/ml
Aromatic C16-C21	8.412	12.674	47409765	255.159	500	ug/ml
Aromatic C21-C36	12.675	18.081	62943746	400.326	800	ug/ml
Aromatic EPH	4.088	18.081	152336818	873.808		ug/ml
2-Bromonaphthalene (SURR)	7.367	7.367	8248787	46.85		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	4866638	42.26		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	7710147	40.09		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
PB165032BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.367	8248787	46.852 ug/ml
Spiked Amount	50.000		Recovery =	93.70%
6) S	2-Flurobiphenyl (SURR)	8.217	4866638	42.256 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	84.51%
11) S	ortho-Terphenyl (SURR)	11.254	7710147	40.087 ug/ml
Spiked Amount	50.000		Recovery =	80.17%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	6884236	36.529 ug/ml
2) T	Naphthalene (C11.7)	5.707	8235127	42.108 ug/ml
3) T	2-Methylnaphthalene (...	6.754	8081250	42.287 ug/ml
5) T	Acenaphthylene (C15.06)	8.021	9210211	47.493 ug/ml
7) T	Acenaphthene (C15.5)	8.317	9572483	49.767 ug/ml
8) T	Flouorene (C16.55)	9.095	9473016	49.376 ug/ml
9) T	Phenanthrene (C19.36)	10.483	9312497	50.804 ug/ml
10) T	Anthracene (C19.43)	10.559	9333900	49.842 ug/ml
12) T	Fluoranthene (C21.85)	12.288	9382920	51.239 ug/mlm
13) T	Pyrene (C20.8)	12.581	9123016	50.461 ug/ml
14) T	Benzo[a]anthracene (C...	14.452	8572046	52.109 ug/ml
15) T	Chrysene (C27.41)	14.496	8471962	48.408 ug/ml
16) T	benzo[b]fluoranthene ...	16.000	8158287	51.925 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.035	8077973	49.498 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.376	7709837	51.710 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.743	7523442	60.904 ug/ml
20) T	Dibenz[a,h]anthracene...	17.781	7186137	45.826 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.996	7244062	50.769 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

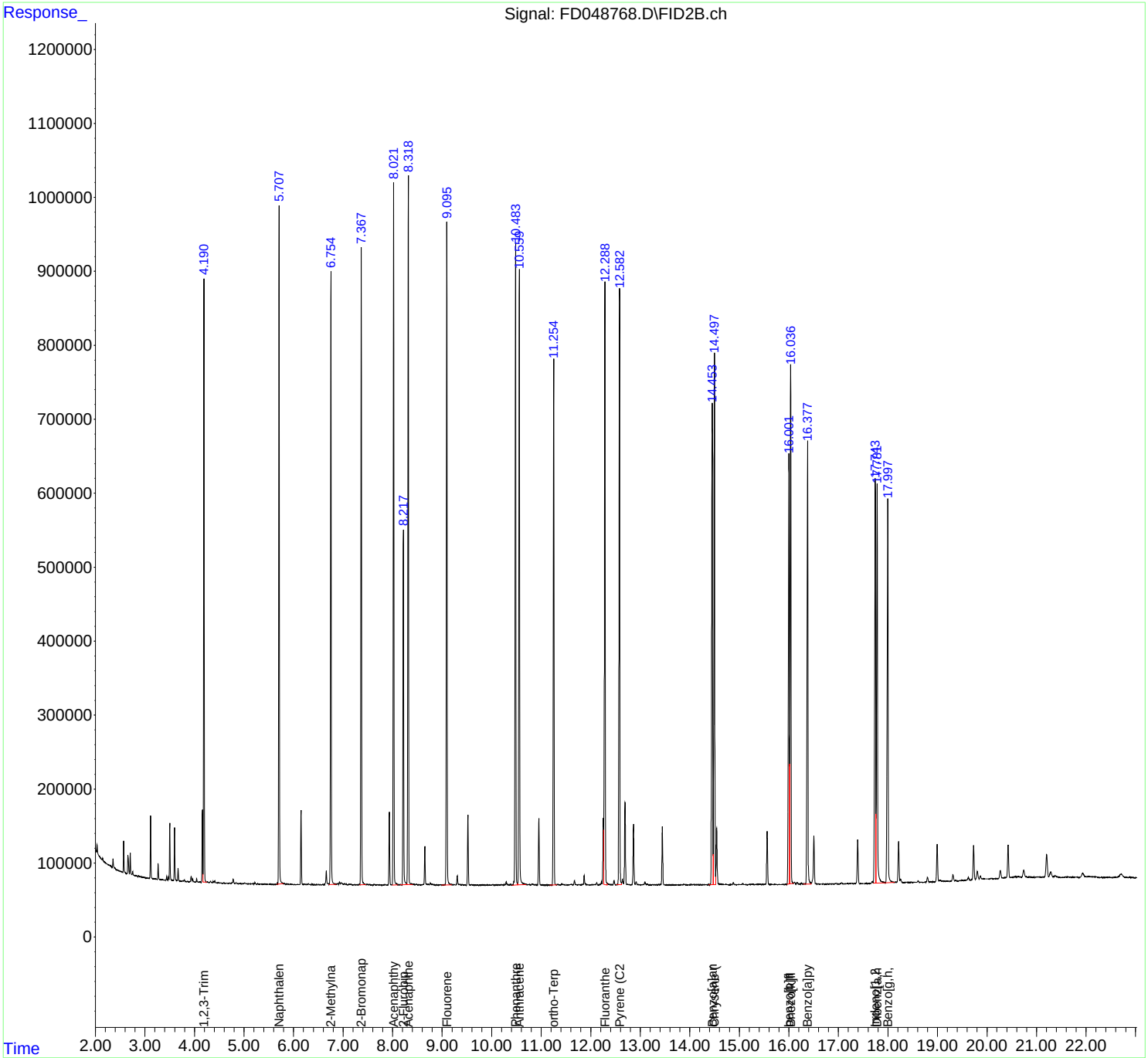
Instrument :
FID_D
ClientSampleId :
PB165032BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
PB165032BSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048768.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 16:39
Sample : PB165032BSD
Misc :
ALS Vial : 69 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Title : GC Extractables

Signal : FID2B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	4.191	4.172	4.251	VV	815043	6884236	67.71%	3.976%
2	5.707	5.651	5.798	BV	918482	8235127	81.00%	4.756%
3	6.754	6.718	6.864	VB	829545	8081250	79.48%	4.667%
4	7.367	7.337	7.461	VB	862646	8248787	81.13%	4.764%
5	8.021	7.991	8.111	BV	947566	9210211	90.59%	5.319%
6	8.217	8.151	8.288	BV	481492	4866638	47.87%	2.810%
7	8.317	8.288	8.408	VB	964072	9572483	94.15%	5.528%
8	9.095	8.991	9.198	BB	893210	9473016	93.17%	5.471%
9	10.483	10.404	10.524	PV	880701	9312497	91.59%	5.378%
10	10.559	10.524	10.698	VB	826296	9333900	91.80%	5.390%
11	11.254	11.168	11.321	BV	715840	7710147	75.83%	4.453%
12	12.287	12.230	12.374	VV	815932	10167336	100.00%	5.872%
13	12.581	12.511	12.621	BV	800723	9123016	89.73%	5.268%
14	14.452	14.378	14.471	BV	638866	8572046	84.31%	4.950%
15	14.496	14.471	14.521	VV	704686	8471962	83.33%	4.892%
16	16.000	15.961	16.015	BV	584159	8158287	80.24%	4.711%
17	16.035	16.015	16.093	VV	693138	8077973	79.45%	4.665%
18	16.376	16.291	16.451	BV	609546	7709837	75.83%	4.452%
19	17.743	17.701	17.759	BV	552982	7523442	74.00%	4.345%
20	17.781	17.759	17.948	VV	542134	7186137	70.68%	4.150%
21	17.996	17.948	18.134	PB	513647	7244062	71.25%	4.183%
			Sum of corrected areas:			173162391		

Aromatic EPH 111424.M Tue Nov 19 06:17:35 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165032BSD		SDG No.:	P4839	
Lab Sample ID:	PB165032BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/18/24 16:39	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.37		1	0.38	1.00	mg/kg	FC067809.D
Aliphatic C12-C16	Aliphatic C12-C16	5.32		1	0.24	0.67	mg/kg	FC067809.D
Aliphatic C16-C21	Aliphatic C16-C21	8.08		1	0.30	1.00	mg/kg	FC067809.D
Aliphatic C21-C28	Aliphatic C21-C28	10.4		1	0.80	1.33	mg/kg	FC067809.D
Aliphatic C28-C40	Aliphatic C28-C40	17.7		1	1.80	2.00	mg/kg	FC067809.D

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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	PB165032BSD			SDG No.:	P4839
Lab Sample ID:	PB165032BSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/18/24 16:39	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	6.37		1	0.38	1.00	mg/kg	FC067809.D
Aliphatic C12-C16	Aliphatic C12-C16	5.32		1	0.24	0.67	mg/kg	FC067809.D
Aliphatic C16-C21	Aliphatic C16-C21	8.08		1	0.30	1.00	mg/kg	FC067809.D
Aliphatic C21-C28	Aliphatic C21-C28	10.4		1	0.80	1.33	mg/kg	FC067809.D
Aliphatic C28-C40	Aliphatic C28-C40	17.7		1	1.80	2.00	mg/kg	FC067809.D
Aromatic C10-C12	Aromatic C10-C12	5.24		1	0.30	0.67	mg/kg	FD048768.D
Aromatic C12-C16	Aromatic C12-C16	9.30		1	0.34	1.00	mg/kg	FD048768.D
Aromatic C16-C21	Aromatic C16-C21	17.0		1	0.96	1.67	mg/kg	FD048768.D
Aromatic C21-C36	Aromatic C21-C36	26.7		1	2.00	2.66	mg/kg	FD048768.D
Total AliphaticEPH	Total AliphaticEPH	47.9			3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	58.2			3.60	6.00	mg/kg	
Total EPH	Total EPH	106			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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	PB165032BSD		SDG No.:	P4839	
Lab Sample ID:	PB165032BSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067809.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	6.37		0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	5.32		0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	8.08		0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	10.4		0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.7		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.1		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

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

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB165032BSD	Acq On:	18 Nov 2024 16:39
Client Sample ID:	PB165032BSD	Operator:	YP/AJ
Data file:	FC067809.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	15845078	95.572	300	ug/ml
Aliphatic C12-C16	6.449	9.838	13606967	79.86	200	ug/ml
Aliphatic C16-C21	9.839	13.196	20569153	121.265	300	ug/ml
Aliphatic C21-C28	13.197	16.850	24547765	156.077	400	ug/ml
Aliphatic C28-C40	16.851	21.691	32153817	265.49	600	ug/ml
Aliphatic EPH	3.172	21.691	106722780	718.264		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	4658064	32.09		ug/ml
Aliphatic C9-C28	3.172	16.850	74568963	452.774	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165032BSD

Integration File: sample.E
Quant Time: Nov 19 04:55:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
12) S	1-chlorooctadecane (S...	12.929	4658064	32.089	ug/ml
Spiked Amount	50.000		Recovery =	64.18%	
	Target Compounds				
1) T	n-Nonane (C9)	3.274	4169652	25.563	ug/ml
2) T	n-Decane (C10)	4.336	5305498	31.993	ug/ml
4) T	n-Dodecane (C12)	6.350	6369928	37.820	ug/ml
6) T	n-Tetradecane (C14)	8.142	6754862	40.334	ug/ml
7) T	n-Hexadecane (C16)	9.741	6852105	39.540	ug/ml
8) T	n-Octadecane (C18)	11.180	6995625	39.761	ug/ml
10) T	n-Eicosane (C20)	12.487	6959191	41.329	ug/ml
11) T	n-Heneicosane (C21)	13.099	6614337	40.199	ug/ml
13) T	n-Docosane (C22)	13.684	6501390	39.922	ug/ml
14) T	n-Tetracosane (C24)	14.785	6244056	38.932	ug/ml
15) T	n-Hexacosane (C26)	15.804	5987706	38.665	ug/ml
16) T	n-Octacosane (C28)	16.752	5814613	38.501	ug/ml
17) T	n-Tricontane (C30)	17.639	5730068	37.425	ug/ml
18) T	n-Dotriacontane (C32)	18.470	5565939	37.686	ug/ml
19) T	n-Tetratriacontane (C34)	19.252	5412323	42.911	ug/ml
20) T	n-Hexatriacontane (C36)	19.991	5119430	48.949	ug/ml
21) T	n-Octatriacontane (C38)	20.713	5039519	51.590	ug/ml
22) T	n-Tetracontane (C40)	21.597	5286538	54.239	ug/ml

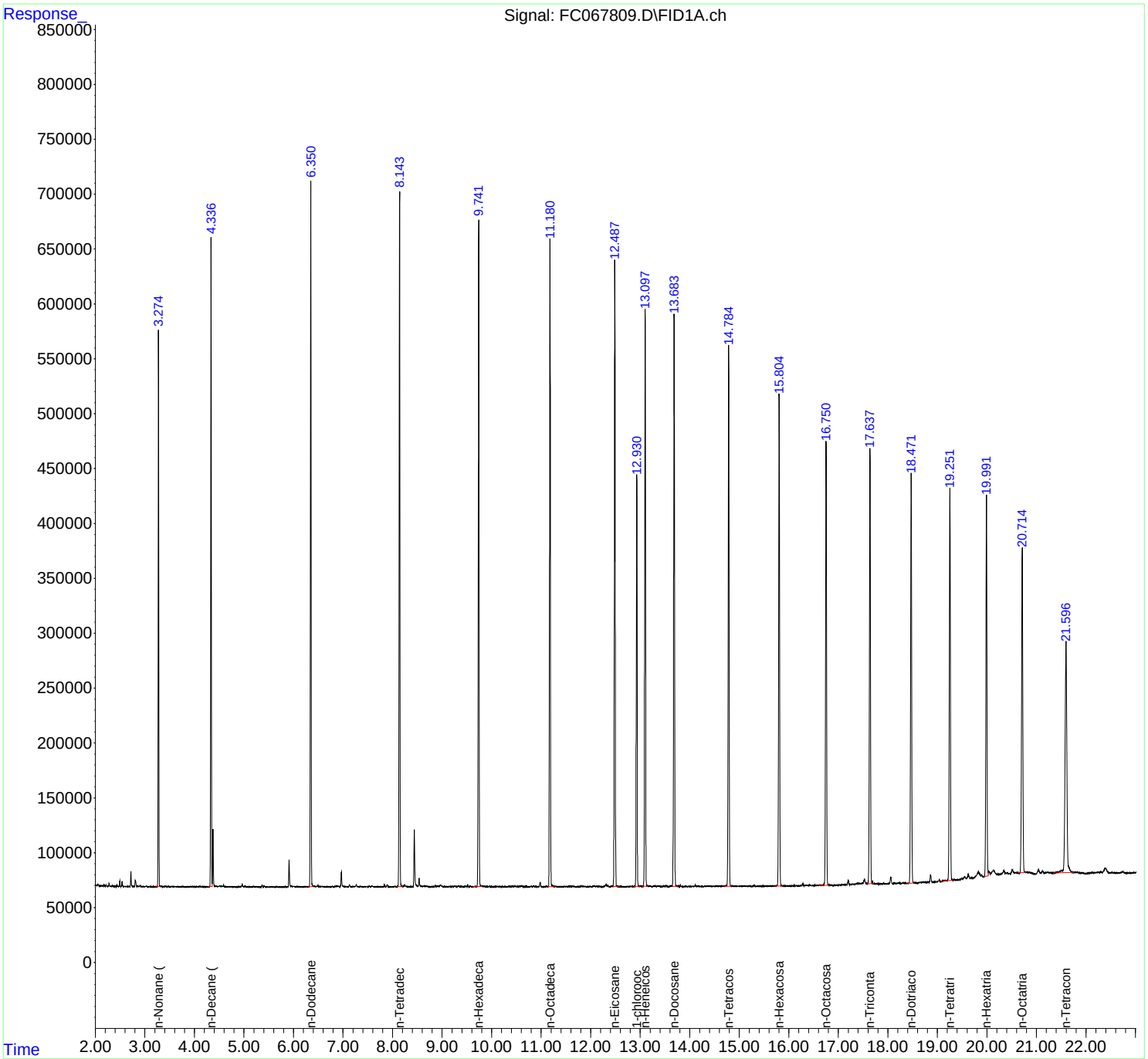
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Operator : YP/AJ
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB165032BSD

Integration File: sample.E
Quant Time: Nov 19 04:55:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111824AL\
Data File : FC067809.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 16:39
Sample : PB165032BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.222	3.320	BB	509303	4169652	59.60%	3.744%
2	4.336	4.280	4.359	BV	588136	5305498	75.84%	4.763%
3	6.350	6.295	6.410	BV	644062	6369928	91.06%	5.719%
4	8.142	8.082	8.212	BV	630042	6754862	96.56%	6.065%
5	9.741	9.620	9.812	BB	608767	6852105	97.95%	6.152%
6	11.180	11.135	11.279	BB	589930	6995625	100.00%	6.281%
7	12.487	12.445	12.560	PB	570012	6959191	99.48%	6.248%
8	12.929	12.867	12.994	BB	376268	4658064	66.59%	4.182%
9	13.099	13.032	13.159	BB	521043	6614337	94.55%	5.938%
10	13.684	13.647	13.749	PB	516294	6501390	92.94%	5.837%
11	14.785	14.689	14.852	BB	492472	6244056	89.26%	5.606%
12	15.804	15.709	15.872	BB	446581	5987706	85.59%	5.376%
13	16.752	16.607	16.822	BB	400679	5814613	83.12%	5.220%
14	17.639	17.575	17.719	BB	391152	5730068	81.91%	5.145%
15	18.470	18.395	18.540	BB	369876	5565939	79.56%	4.997%
16	19.252	19.075	19.320	BB	355187	5412323	77.37%	4.859%
17	19.991	19.935	20.027	BV	345474	5119430	73.18%	4.596%
18	20.713	20.634	20.794	BB	292044	5039519	72.04%	4.525%
19	21.597	21.337	21.759	BB	208166	5286538	75.57%	4.746%

Sum of corrected areas: 111380844

Aliphatic EPH 111424.M Tue Nov 19 05:24:34 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-9-TPH-15MS			SDG No.:	P4839
Lab Sample ID:	P4839-07MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	82.7
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
11/14/24 14:15	11/15/24 15:13	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	45.6	E	1	0.46	1.21	mg/kg	FC067776.D
Aliphatic C12-C16	Aliphatic C12-C16	67.6	E	1	0.29	0.81	mg/kg	FC067776.D
Aliphatic C16-C21	Aliphatic C16-C21	16.9		1	0.36	1.21	mg/kg	FC067776.D
Aliphatic C21-C28	Aliphatic C21-C28	18.0		1	0.97	1.61	mg/kg	FC067776.D
Aliphatic C28-C40	Aliphatic C28-C40	33.4		1	2.18	2.42	mg/kg	FC067776.D
Aromatic C10-C12	Aromatic C10-C12	12.3		1	0.36	0.81	mg/kg	FD048745.D
Aromatic C12-C16	Aromatic C12-C16	31.9	E	1	0.41	1.21	mg/kg	FD048745.D
Aromatic C16-C21	Aromatic C16-C21	32.6		1	1.16	2.01	mg/kg	FD048745.D
Aromatic C21-C36	Aromatic C21-C36	43.6		1	2.42	3.22	mg/kg	FD048745.D
Total AliphaticEPH	Total AliphaticEPH	182			4.26	7.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	120			4.35	7.25	mg/kg	
Total EPH	Total EPH	302			8.61	14.5	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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-9-TPH-15MS			SDG No.:	P4839
Lab Sample ID:	P4839-07MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	82.7
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
11/14/24 14:15	11/15/24 15:13	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	45.6	E	1	0.46	1.21	mg/kg	FC067776.D
Aliphatic C12-C16	Aliphatic C12-C16	67.6	E	1	0.29	0.81	mg/kg	FC067776.D
Aliphatic C16-C21	Aliphatic C16-C21	16.9		1	0.36	1.21	mg/kg	FC067776.D
Aliphatic C21-C28	Aliphatic C21-C28	18.0		1	0.97	1.61	mg/kg	FC067776.D
Aliphatic C28-C40	Aliphatic C28-C40	33.4		1	2.18	2.42	mg/kg	FC067776.D
Aromatic C10-C12	Aromatic C10-C12	12.3		1	0.36	0.81	mg/kg	FD048745.D
Aromatic C12-C16	Aromatic C12-C16	31.9	E	1	0.41	1.21	mg/kg	FD048745.D
Aromatic C16-C21	Aromatic C16-C21	32.6		1	1.16	2.01	mg/kg	FD048745.D
Aromatic C21-C36	Aromatic C21-C36	43.6		1	2.42	3.22	mg/kg	FD048745.D
Total AliphaticEPH	Total AliphaticEPH	182			4.26	7.26	mg/kg	
Total AromaticEPH	Total AromaticEPH	120			4.35	7.25	mg/kg	
Total EPH	Total EPH	302			8.61	14.5	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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	EX-9-TPH-15MS		SDG No.:	P4839	
Lab Sample ID:	P4839-07MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FC067776.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	45.6	E	0.46	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	67.6	E	0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	16.9		0.36	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	18.0		0.97	1.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	33.4		2.18	2.42	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.0		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:	P4839-07MS	Acq On:	15 Nov 2024 15:13
Client Sample ID:	P4839-07MS	Operator:	YP/AJ
Data file:	FC067776.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	357723907	2250		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.930	12.930	5803490	39.98		ug/ml
Aliphatic C9-C12	3.172	6.448	93844012	566.037	300	ug/ml
Aliphatic C12-C16	6.449	9.838	143042424	839.528	200	ug/ml
Aliphatic C16-C21	9.839	13.196	35509289	209.344	300	ug/ml
Aliphatic C21-C28	13.197	16.850	35096097	223.144	400	ug/ml
Aliphatic C28-C40	16.851	21.693	50232085	414.76	600	ug/ml
Aliphatic C9-C28	3.172	16.850	307491822	1840	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067776.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:13
Operator : YP/AJ
Sample : P4839-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 16 08:21:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.930	5803490	39.980 ug/ml
Spiked Amount	50.000		Recovery =	79.96%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	5380329	32.985 ug/ml
2) T	n-Decane (C10)	4.337	6871311	41.435 ug/ml
4) T	n-Dodecane (C12)	6.353	8659177	51.412 ug/mlm
6) T	n-Tetradecane (C14)	8.145	9329428	55.707 ug/mlm
7) T	n-Hexadecane (C16)	9.743	9501389	54.827 ug/ml
8) T	n-Octadecane (C18)	11.182	9572803	54.410 ug/ml
10) T	n-Eicosane (C20)	12.490	9467843	56.227 ug/ml
11) T	n-Heneicosane (C21)	13.101	9012630	54.775 ug/ml
13) T	n-Docosane (C22)	13.685	8894868	54.619 ug/ml
14) T	n-Tetracosane (C24)	14.786	8669079	54.053 ug/ml
15) T	n-Hexacosane (C26)	15.806	8369724	54.046 ug/ml
16) T	n-Octacosane (C28)	16.754	8066320	53.411 ug/ml
17) T	n-Tricontane (C30)	17.641	7792036	50.892 ug/ml
18) T	n-Dotriacontane (C32)	18.472	7488356	50.703 ug/ml
19) T	n-Tetratriacontane (C34)	19.253	7250381	57.483 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	6891430	65.892 ug/ml
21) T	n-Octatriacontane (C38)	20.715	6966592	71.318 ug/ml
22) T	n-Tetracontane (C40)	21.600	6985729	71.673 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067776.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:13
Operator : YP/AJ
Sample : P4839-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

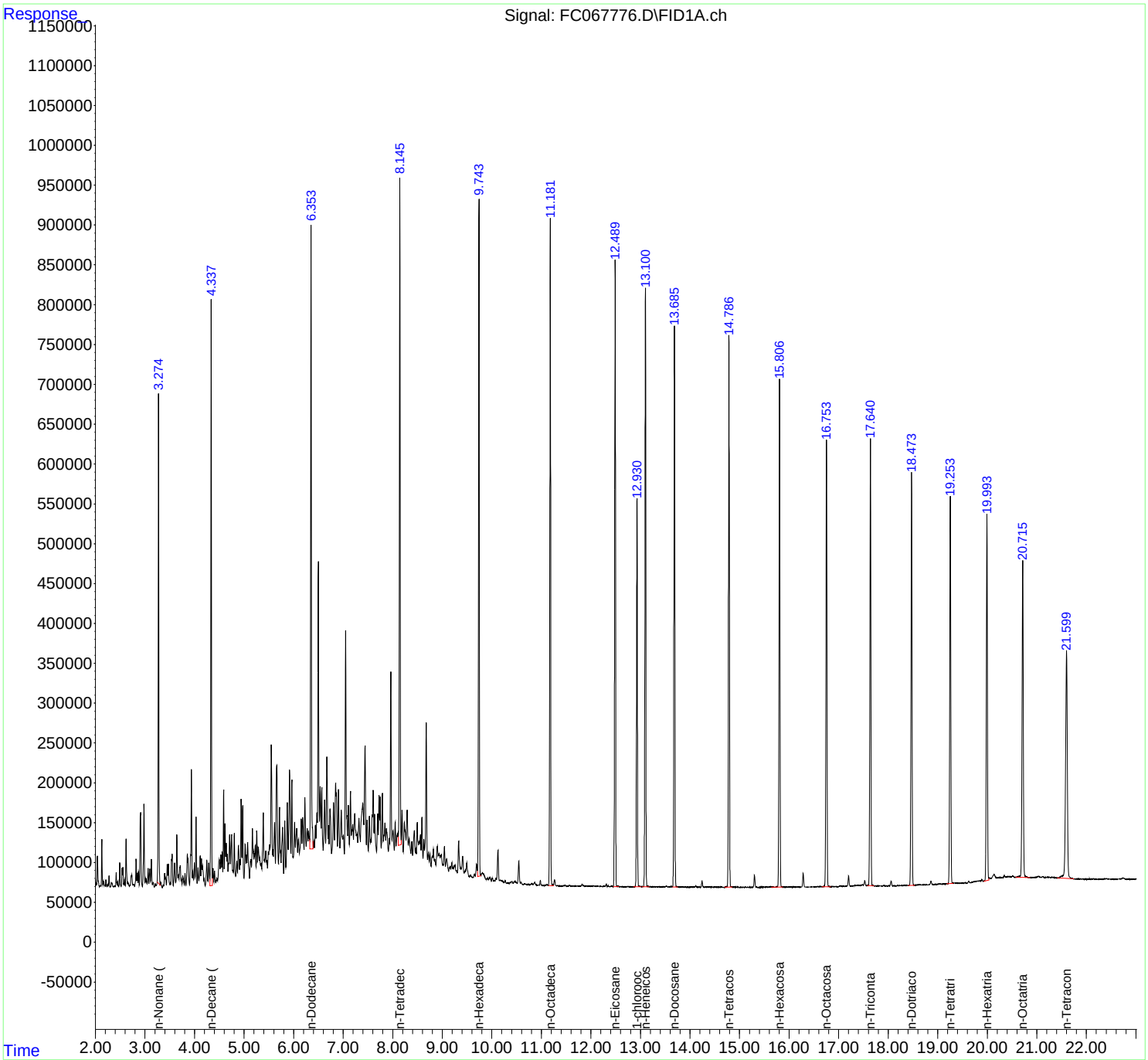
Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 16 08:21:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11152
Data File : FC067776.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:13
Sample : P4839-07MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.255	3.307	PH	614783	5380486	48.08%	1.480%
2	3.319	3.307	3.351	PV	4152	36949	0.33%	0.010%
3	3.369	3.351	3.378	PV	2927	26287	0.23%	0.007%
4	3.396	3.378	3.409	VV	17206	190037	1.70%	0.052%
5	3.415	3.409	3.432	VV	11442	114704	1.02%	0.032%
6	3.449	3.432	3.460	VV	28453	271990	2.43%	0.075%
7	3.472	3.460	3.501	VV	29004	367259	3.28%	0.101%
8	3.549	3.501	3.570	VV	41129	741043	6.62%	0.204%
9	3.597	3.570	3.619	VV	30560	442932	3.96%	0.122%
10	3.643	3.619	3.665	VV	65174	745054	6.66%	0.205%
11	3.674	3.665	3.685	VV	15412	162930	1.46%	0.045%
12	3.711	3.685	3.748	VV	27183	609911	5.45%	0.168%
13	3.764	3.748	3.793	VV	14648	229922	2.05%	0.063%
14	3.809	3.793	3.826	VV	17179	167647	1.50%	0.046%
15	3.856	3.826	3.900	VV	41946	858813	7.67%	0.236%
16	3.938	3.900	3.981	VV	147590	2014228	18.00%	0.554%
17	3.997	3.981	4.015	VV	30714	379462	3.39%	0.104%
18	4.031	4.015	4.053	VV	88538	887533	7.93%	0.244%
19	4.071	4.053	4.088	VV	24586	306480	2.74%	0.084%
20	4.114	4.088	4.127	VV	39513	500008	4.47%	0.138%
21	4.141	4.127	4.152	VV	35741	397091	3.55%	0.109%
22	4.160	4.152	4.215	VV	26601	524900	4.69%	0.144%
23	4.249	4.215	4.269	VV	34265	497447	4.45%	0.137%
24	4.288	4.269	4.309	VV	30546	441557	3.95%	0.121%
25	4.337	4.309	4.362	VV	739141	6931538	61.94%	1.906%
26	4.375	4.362	4.389	VV	23958	261918	2.34%	0.072%
27	4.404	4.389	4.427	VV	20084	277547	2.48%	0.076%
28	4.453	4.427	4.466	VV	11323	200052	1.79%	0.055%
29	4.500	4.466	4.517	VV	34437	741290	6.62%	0.204%
30	4.533	4.517	4.545	VV	40736	536605	4.80%	0.148%
31	4.558	4.545	4.571	VV	44740	526060	4.70%	0.145%
32	4.588	4.571	4.603	VV	122101	1230284	10.99%	0.338%
33	4.616	4.603	4.631	VV	78842	908875	8.12%	0.250%
34	4.642	4.631	4.655	VV	55287	675165	6.03%	0.186%
35	4.663	4.655	4.676	VV	41963	406047	3.63%	0.112%
36	4.709	4.676	4.726	VV	65912	1212082	10.83%	0.333%

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

rteres

37	4.748	4.726	4.784	VV	66748	1323868	11.83%	0.364%
38	4.803	4.784	4.830	VV	67347	919383	8	
39	4.854	4.830	4.868	VV	32939	513023	4	
40	4.888	4.868	4.907	VV	51310	865055	7	
41	4.942	4.907	4.957	VV	110115	1587937	14	
42	4.973	4.957	4.998	VV	101653	1253520	11	
43	5.024	4.998	5.039	VV	53601	823750	7.36%	0.227%
44	5.049	5.039	5.058	VV	40230	393578	3.52%	0.108%
45	5.072	5.058	5.110	VV	56180	1052526	9.41%	0.289%
46	5.138	5.110	5.150	VV	35104	646544	5.78%	0.178%
47	5.170	5.150	5.198	VV	73321	1380441	12.34%	0.380%
48	5.226	5.198	5.241	VV	52799	1069967	9.56%	0.294%
49	5.257	5.241	5.273	VV	70433	911760	8.15%	0.251%
50	5.288	5.273	5.309	VV	49869	904058	8.08%	0.249%
51	5.317	5.309	5.335	VV	37086	503638	4.50%	0.139%
52	5.345	5.335	5.357	VV	29848	369132	3.30%	0.102%
53	5.388	5.357	5.417	VV	92905	1771120	15.83%	0.487%
54	5.438	5.417	5.473	VV	45385	1185988	10.60%	0.326%
55	5.513	5.473	5.524	VV	53315	1293183	11.56%	0.356%
56	5.550	5.524	5.591	VV	175167	3466165	30.97%	0.953%
57	5.616	5.591	5.634	VV	80672	1444939	12.91%	0.397%
58	5.660	5.634	5.695	VV	153192	3247522	29.02%	0.893%
59	5.716	5.695	5.747	VV	100393	1759365	15.72%	0.484%
60	5.777	5.747	5.800	VV	74945	1514307	13.53%	0.416%
61	5.822	5.800	5.844	VV	82839	1214047	10.85%	0.334%
62	5.872	5.844	5.891	VV	106744	1799429	16.08%	0.495%
63	5.919	5.891	5.946	VV	147060	2986923	26.69%	0.821%
64	5.965	5.946	5.988	VV	135034	1910399	17.07%	0.525%
65	6.020	5.988	6.037	VV	81486	1638057	14.64%	0.451%
66	6.063	6.037	6.082	VV	73841	1646249	14.71%	0.453%
67	6.098	6.082	6.118	VV	60049	1134378	10.14%	0.312%
68	6.155	6.118	6.169	VV	85627	1880629	16.81%	0.517%
69	6.184	6.169	6.210	VV	87125	1721611	15.38%	0.473%
70	6.229	6.210	6.254	VV	112163	2002671	17.90%	0.551%
71	6.276	6.254	6.291	VV	73745	1432161	12.80%	0.394%
72	6.303	6.291	6.323	VV	70410	1252956	11.20%	0.345%
73	6.353	6.323	6.399	VV	825768	10862569	97.07%	2.987%
74	6.409	6.399	6.420	VV	56762	680686	6.08%	0.187%
75	6.440	6.420	6.453	VV	78152	1278345	11.42%	0.352%
76	6.499	6.453	6.523	VV	406518	6561732	58.64%	1.805%
77	6.537	6.523	6.555	VV	126391	1990390	17.79%	0.547%
78	6.569	6.555	6.598	VV	124440	2059976	18.41%	0.567%
79	6.627	6.598	6.647	VV	108400	2289561	20.46%	0.630%
80	6.672	6.647	6.696	VV	162761	3088735	27.60%	0.849%
81	6.705	6.696	6.717	VV	77105	862447	7.71%	0.237%
82	6.735	6.717	6.767	VV	98321	2182686	19.50%	0.600%
83	6.808	6.767	6.826	VV	106238	2466961	22.04%	0.678%
84	6.849	6.826	6.886	VV	131236	3449798	30.83%	0.949%
85	6.907	6.886	6.935	VV	122228	2311115	20.65%	0.636%
86	6.963	6.935	6.991	VV	96399	2373429	21.21%	0.653%
87	7.005	6.991	7.025	VV	65151	1183256	10.57%	0.325%
88	7.051	7.025	7.088	VV	322188	5138731	45.92%	1.413%
89	7.106	7.088	7.126	VV	102466	1784112	15.94%	0.491%

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90	7.149	7.126	7.167	VV	119893	2089611	18.67%	0.575%
91	7.193	7.167	7.209	VV	78864	1799353	16	
92	7.234	7.209	7.294	VV	92584	3662412	32	
93	7.320	7.294	7.347	VV	86635	2201818	19	
94	7.395	7.347	7.417	VV	105037	3758443	33	
95	7.442	7.417	7.469	VV	177504	3536372	31	
96	7.484	7.469	7.508	VV	84358	1533437	13.70%	0.422%
97	7.530	7.508	7.548	VV	88929	1616015	14.44%	0.444%
98	7.607	7.548	7.623	VV	121674	3724828	33.29%	1.024%
99	7.636	7.623	7.674	VV	91519	2027740	18.12%	0.558%
100	7.696	7.674	7.710	VV	91387	1474257	13.17%	0.405%
101	7.726	7.710	7.738	VV	115464	1588521	14.20%	0.437%
102	7.749	7.738	7.769	VV	113030	1559430	13.94%	0.429%
103	7.793	7.769	7.813	VV	117004	2065605	18.46%	0.568%
104	7.844	7.813	7.860	VV	81049	1953733	17.46%	0.537%
105	7.875	7.860	7.914	VV	73473	1970065	17.60%	0.542%
106	7.931	7.914	7.940	VV	61163	862141	7.70%	0.237%
107	7.964	7.940	7.988	VV	270181	3838826	34.30%	1.056%
108	8.008	7.988	8.033	VV	70868	1682995	15.04%	0.463%
109	8.051	8.033	8.070	VV	81570	1423523	12.72%	0.392%
110	8.105	8.070	8.114	VV	68017	1639455	14.65%	0.451%
111	8.145	8.114	8.172	VV	890505	11190681	100.00%	3.078%
112	8.190	8.172	8.213	VV	96216	1710317	15.28%	0.470%
113	8.237	8.213	8.270	VV	81479	2245304	20.06%	0.618%
114	8.292	8.270	8.316	VV	96315	2079494	18.58%	0.572%
115	8.333	8.316	8.367	VV	61103	1631611	14.58%	0.449%
116	8.386	8.367	8.403	VV	57233	1055045	9.43%	0.290%
117	8.437	8.403	8.458	VV	71079	1846701	16.50%	0.508%
118	8.467	8.458	8.477	VV	47986	531066	4.75%	0.146%
119	8.496	8.477	8.521	VV	81078	1623809	14.51%	0.447%
120	8.560	8.521	8.573	VV	66203	1793214	16.02%	0.493%
121	8.591	8.573	8.613	VV	87599	1493997	13.35%	0.411%
122	8.631	8.613	8.645	VV	59750	942900	8.43%	0.259%
123	8.678	8.645	8.704	VV	204757	3397131	30.36%	0.934%
124	8.720	8.704	8.738	VV	42894	783647	7.00%	0.216%
125	8.753	8.738	8.775	VV	42311	775524	6.93%	0.213%
126	8.799	8.775	8.807	VV	38498	652950	5.83%	0.180%
127	8.823	8.807	8.871	VV	47966	1421919	12.71%	0.391%
128	8.899	8.871	8.955	VV	50733	2062346	18.43%	0.567%
129	8.981	8.955	9.011	VV	40352	1216649	10.87%	0.335%
130	9.045	9.011	9.067	VV	51134	1205852	10.78%	0.332%
131	9.086	9.067	9.130	VV	35099	1096864	9.80%	0.302%
132	9.159	9.130	9.174	VV	25963	620613	5.55%	0.171%
133	9.195	9.174	9.212	VV	30844	615458	5.50%	0.169%
134	9.222	9.212	9.228	VV	24983	230076	2.06%	0.063%
135	9.259	9.228	9.304	VV	27692	1071954	9.58%	0.295%
136	9.332	9.304	9.369	VV	57845	1339703	11.97%	0.368%
137	9.379	9.369	9.387	VV	23974	250211	2.24%	0.069%
138	9.413	9.387	9.440	VV	38698	907304	8.11%	0.250%
139	9.495	9.440	9.545	VV	30453	1294823	11.57%	0.356%
140	9.575	9.545	9.608	VV	14973	523546	4.68%	0.144%
141	9.616	9.608	9.627	VV	12835	145943	1.30%	0.040%

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142	9.651	9.627	9.668	VV	16744	357360	3.19%	0.098%
143	9.694	9.668	9.710	VV	29056	570085	5	
144	9.743	9.710	9.783	VV	856314	10124814	90	
145	9.808	9.783	9.831	VV	18288	482004	4	
146	9.840	9.831	9.887	VV	16771	447152	4	
147	9.909	9.887	9.930	VV	11524	271389	2	
148	9.952	9.930	9.995	VV	11949	411249	3.67%	0.113%
149	10.012	9.995	10.043	VV	11448	280221	2.50%	0.077%
150	10.085	10.043	10.096	VV	11432	294140	2.63%	0.081%
151	10.126	10.096	10.156	VV	46344	831197	7.43%	0.229%
152	10.171	10.156	10.245	VV	9048	423996	3.79%	0.117%
153	10.271	10.245	10.301	VV	8575	222251	1.99%	0.061%
154	10.314	10.301	10.348	VV	5469	145200	1.30%	0.040%
155	10.370	10.348	10.380	VV	5885	104567	0.93%	0.029%
156	10.406	10.380	10.434	VV	7623	205063	1.83%	0.056%
157	10.474	10.434	10.510	VV	7639	286724	2.56%	0.079%
158	10.547	10.510	10.577	VV	32542	591864	5.29%	0.163%
159	10.592	10.577	10.625	VV	6339	146402	1.31%	0.040%
160	10.656	10.625	10.714	VV	4216	202631	1.81%	0.056%
161	10.734	10.714	10.775	VV	3930	126541	1.13%	0.035%
162	10.804	10.775	10.831	VV	4477	130813	1.17%	0.036%
163	10.866	10.831	10.915	VV	6269	204865	1.83%	0.056%
164	10.981	10.915	11.019	VV	8330	230225	2.06%	0.063%
165	11.030	11.019	11.064	VV	2504	62935	0.56%	0.017%
166	11.108	11.064	11.140	VV	3751	120645	1.08%	0.033%
167	11.182	11.140	11.239	VV	835657	9693285	86.62%	2.666%
168	11.268	11.239	11.308	VV	9483	194430	1.74%	0.053%
169	11.331	11.308	11.355	VV	2181	52527	0.47%	0.014%
170	11.373	11.355	11.391	VV	1805	36073	0.32%	0.010%
171	11.458	11.391	11.514	VV	2210	136572	1.22%	0.038%
172	11.570	11.514	11.599	VV	2237	93005	0.83%	0.026%
173	11.633	11.599	11.649	VV	1922	49695	0.44%	0.014%
174	11.660	11.649	11.676	VV	1728	26134	0.23%	0.007%
175	11.689	11.676	11.710	VV	1617	30020	0.27%	0.008%
176	11.731	11.710	11.771	VV	1649	54141	0.48%	0.015%
177	11.782	11.771	11.798	VV	1603	24676	0.22%	0.007%
178	11.824	11.798	11.921	VV	3292	141386	1.26%	0.039%
179	11.974	11.921	12.020	VV	1602	83188	0.74%	0.023%
180	12.048	12.020	12.096	VV	1728	64683	0.58%	0.018%
181	12.121	12.096	12.157	VV	1661	51896	0.46%	0.014%
182	12.179	12.157	12.234	VV	1377	54007	0.48%	0.015%
183	12.254	12.234	12.268	VV	1244	22947	0.21%	0.006%
184	12.309	12.268	12.331	VV	3989	81532	0.73%	0.022%
185	12.346	12.331	12.381	VV	1951	39025	0.35%	0.011%
186	12.423	12.381	12.447	VV	2095	49477	0.44%	0.014%
187	12.490	12.447	12.566	VV	781468	9521853	85.09%	2.619%
188	12.575	12.566	12.581	VV	938	8561	0.08%	0.002%
189	12.601	12.581	12.617	VV	1040	20288	0.18%	0.006%
190	12.626	12.617	12.694	VV	880	30155	0.27%	0.008%
191	12.705	12.694	12.715	VV	601	6830	0.06%	0.002%
192	12.736	12.715	12.755	VV	787	16359	0.15%	0.004%
193	12.762	12.755	12.791	VV	794	15068	0.13%	0.004%
194	12.806	12.791	12.826	VV	684	12347	0.11%	0.003%

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195	12.843	12.826	12.864	VV	747	14146	0.13%	0.004%
196	12.930	12.864	12.971	VV	485817	5834226	52	
197	12.978	12.971	13.017	VV	1507	31618	0	
198	13.038	13.017	13.058	VV	920	20146	0	
199	13.101	13.058	13.180	VV	751378	9066939	81	
200	13.193	13.180	13.248	VV	901	26210	0	
201	13.254	13.248	13.276	VV	610	8140	0.07%	0.002%
202	13.316	13.276	13.348	VV	720	24304	0.22%	0.007%
203	13.374	13.348	13.422	VV	765	24123	0.22%	0.007%
204	13.442	13.422	13.457	VV	518	8902	0.08%	0.002%
205	13.474	13.457	13.501	VV	875	15457	0.14%	0.004%
206	13.523	13.501	13.598	VV	1942	45296	0.40%	0.012%
207	13.629	13.598	13.645	VV	1383	23778	0.21%	0.007%
208	13.685	13.645	13.789	VV	699216	8934653	79.84%	2.457%
209	13.811	13.789	13.851	VV	458	11022	0.10%	0.003%
210	13.858	13.851	13.873	VV	287	3352	0.03%	0.001%
211	13.918	13.873	13.935	VV	411	12001	0.11%	0.003%
212	13.944	13.935	13.966	VV	272	4394	0.04%	0.001%
213	13.976	13.966	14.032	VV	301	9893	0.09%	0.003%
214	14.062	14.032	14.087	VV	292	7183	0.06%	0.002%
215	14.116	14.087	14.208	VV	1660	35659	0.32%	0.010%
216	14.242	14.208	14.288	VV	8152	109994	0.98%	0.030%
217	14.310	14.288	14.342	VV	379	8693	0.08%	0.002%
218	14.352	14.342	14.358	VV	266	2161	0.02%	0.001%
219	14.383	14.358	14.424	VV	343	10209	0.09%	0.003%
220	14.440	14.424	14.471	VV	208	4497	0.04%	0.001%
221	14.491	14.471	14.518	VV	197	4680	0.04%	0.001%
222	14.527	14.518	14.537	VV	237	2189	0.02%	0.001%
223	14.590	14.537	14.701	VV	323	19636	0.18%	0.005%
224	14.786	14.701	14.928	VV	669978	8701258	77.75%	2.393%
225	14.957	14.928	15.075	VV	274	12232	0.11%	0.003%
226	15.117	15.075	15.148	PV	311	6593	0.06%	0.002%
227	15.212	15.148	15.241	VV	201	7164	0.06%	0.002%
228	15.300	15.241	15.393	VV	14845	211555	1.89%	0.058%
229	15.485	15.393	15.505	VV	201	6916	0.06%	0.002%
230	15.518	15.505	15.571	VV	204	5487	0.05%	0.002%
231	15.623	15.571	15.647	VV	647	12952	0.12%	0.004%
232	15.671	15.647	15.728	VV	443	10275	0.09%	0.003%
233	15.805	15.728	15.968	PV	635761	8391676	74.99%	2.308%
234	15.980	15.968	16.071	VV	149	3909	0.03%	0.001%
235	16.111	16.071	16.138	PV	478	8701	0.08%	0.002%
236	16.159	16.138	16.214	VV	374	5383	0.05%	0.001%
237	16.283	16.214	16.358	PV	17050	247405	2.21%	0.068%
238	16.371	16.358	16.386	VV	80	1243	0.01%	0.000%
239	16.445	16.386	16.474	PV	135	4762	0.04%	0.001%
240	16.583	16.474	16.607	VV	794	15640	0.14%	0.004%
241	16.632	16.607	16.682	VV	867	19193	0.17%	0.005%
242	16.754	16.682	16.925	VV	559564	8093537	72.32%	2.226%
243	17.040	16.925	17.068	VV	936	31222	0.28%	0.009%
244	17.087	17.068	17.115	VV	740	17311	0.15%	0.005%
245	17.200	17.115	17.245	VV	13252	219648	1.96%	0.060%
246	17.408	17.245	17.447	VV	1554	135996	1.22%	0.037%

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247	17.527	17.447	17.566	VV	7184	181576	1.62%	0.050%
248	17.641	17.566	17.743	VV	563290	7874131	70	
249	17.762	17.743	17.867	VV	633	29296	0	
250	17.910	17.867	17.935	VV	726	16898	0	
251	17.950	17.935	17.995	VV	382	7514	0	
252	18.058	17.995	18.111	PV	6278	98037	0	
253	18.137	18.111	18.165	VV	136	4065	0.04%	0.001%
254	18.219	18.165	18.248	VV	199	7349	0.07%	0.002%
255	18.321	18.248	18.345	VV	653	14568	0.13%	0.004%
256	18.364	18.345	18.402	VV	415	8238	0.07%	0.002%
257	18.471	18.402	18.561	PV	515460	7500409	67.02%	2.063%
258	18.619	18.561	18.691	VV	432	21956	0.20%	0.006%
259	18.725	18.691	18.744	VV	463	9857	0.09%	0.003%
260	18.765	18.744	18.807	VV	457	9680	0.09%	0.003%
261	18.863	18.807	18.925	VV	4803	82131	0.73%	0.023%
262	19.038	18.925	19.073	VV	805	37961	0.34%	0.010%
263	19.116	19.073	19.141	VV	590	19188	0.17%	0.005%
264	19.253	19.141	19.378	VV	482163	7361998	65.79%	2.025%
265	19.405	19.378	19.456	VV	918	39186	0.35%	0.011%
266	19.551	19.456	19.582	VV	1177	57147	0.51%	0.016%
267	19.624	19.582	19.653	VV	2884	57669	0.52%	0.016%
268	19.889	19.653	19.930	VV	3776	373341	3.34%	0.103%
269	19.993	19.930	20.068	VV	450032	7193724	64.28%	1.978%
270	20.133	20.068	20.206	VV	9788	608666	5.44%	0.167%
271	20.262	20.206	20.301	VV	6274	339074	3.03%	0.093%
272	20.342	20.301	20.378	VV	8063	312443	2.79%	0.086%
273	20.460	20.378	20.485	VV	6759	426808	3.81%	0.117%
274	20.514	20.485	20.554	VV	7401	275462	2.46%	0.076%
275	20.715	20.554	20.891	VV	405169	8022955	71.69%	2.207%
276	21.036	20.891	21.085	VV	5688	576544	5.15%	0.159%
277	21.121	21.085	21.155	VV	5309	199069	1.78%	0.055%
278	21.250	21.155	21.288	VV	4426	338998	3.03%	0.093%
279	21.318	21.288	21.438	VV	4075	315259	2.82%	0.087%
280	21.600	21.438	21.832	VV	287940	7406711	66.19%	2.037%
281	21.856	21.832	21.910	VV	801	31590	0.28%	0.009%
282	21.927	21.910	21.966	VV	512	11847	0.11%	0.003%
283	21.993	21.966	22.028	VV	138	3229	0.03%	0.001%

Sum of corrected areas: 363604794

Aliphatic EPH 111424.M Sat Nov 16 09:59:28 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	EX-9-TPH-15MS		SDG No.:	P4839	
Lab Sample ID:	P4839-07MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FD048745.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	12.3		0.36	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	31.9	E	0.41	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	32.6		1.16	2.01	mg/kg
Aromatic C21-C36	Aromatic C21-C36	43.6		2.42	3.22	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.9		40 - 140	116%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.8		40 - 140	112%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	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:	P4839-07MS	Acq On:	15 Nov 2024 15:13
Client Sample ID:	EX-9-TPH-15MS	Operator:	YP/AJ
Data file:	FD048745.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	29412214	153.175	200	ug/ml
Aromatic C12-C16	5.806	8.411	76117632	395.501	300	ug/ml
Aromatic C16-C21	8.412	12.674	75092044	404.145	500	ug/ml
Aromatic C21-C36	12.675	18.081	85117031	541.35	800	ug/ml
Aromatic EPH	4.088	18.081	265738921	1490		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	7269909	37.8		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	10185930	57.86		ug/ml
2-Flurobiphenyl (SURR)	8.219	8.219	6430303	55.83		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048745.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:13
Operator : YP/AJ
Sample : P4839-07MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15MS

Integration File: sample.E
Quant Time: Nov 16 10:12:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.369	10185930	57.855 ug/ml
Spiked Amount	50.000		Recovery =	115.71%
6) S	2-Flurobiphenyl (SURR)	8.219	6430303	55.833 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	111.67%
11) S	ortho-Terphenyl (SURR)	11.254	7269909	37.798 ug/ml
Spiked Amount	50.000		Recovery =	75.60%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.191	7979880	42.342 ug/ml
2) T	Naphthalene (C11.7)	5.708	10035530	51.313 ug/ml
3) T	2-Methylnaphthalene (...	6.756	10001846	52.337 ug/ml
5) T	Acenaphthylene (C15.06)	8.024	11161388	57.555 ug/ml
7) T	Acenaphthene (C15.5)	8.319	11861677	61.669 ug/ml
8) T	Flouorene (C16.55)	9.097	11725292	61.116 ug/ml
9) T	Phenanthrene (C19.36)	10.485	11506881	62.775 ug/ml
10) T	Anthracene (C19.43)	10.562	11240209	60.021 ug/ml
12) T	Fluoranthene (C21.85)	12.291	11865540	64.796 ug/ml
13) T	Pyrene (C20.8)	12.584	11093463	61.360 ug/ml
14) T	Benzo[a]anthracene (C...	14.455	10524699	63.979 ug/ml
15) T	Chrysene (C27.41)	14.500	10330158	59.025 ug/ml
16) T	benzo[b]fluoranthene ...	16.003	10124898	64.441 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.039	9975437	61.125 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.380	9530995	63.925 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.748	9521801	77.081 ug/ml
20) T	Dibenz[a,h]anthracene...	17.785	8855920	56.474 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.001	8963303	62.818 ug/ml

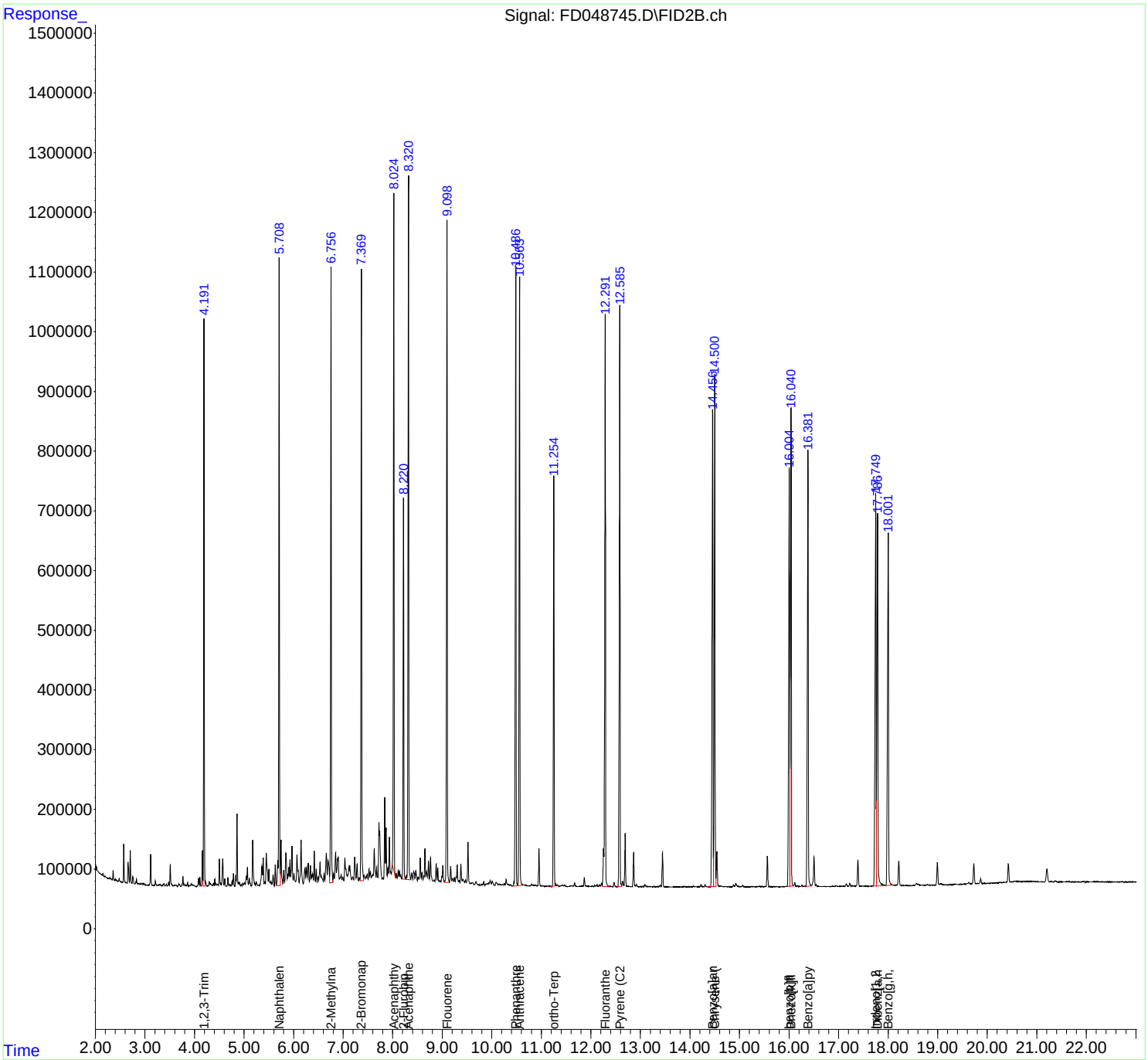
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048745.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:13
Operator : YP/AJ
Sample : P4839-07MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15MS

Integration File: sample.E
Quant Time: Nov 16 10:12:15 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048745.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:13
Sample : P4839-07MS
Misc :
ALS Vial : 66 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.082	4.042	4.095	BV	14054	149905	1.20%	0.053%
2	4.109	4.095	4.133	VV	16043	152077	1.22%	0.054%
3	4.160	4.133	4.172	VV	60648	531676	4.27%	0.187%
4	4.191	4.172	4.217	VV	952491	7998123	64.22%	2.818%
5	4.228	4.217	4.250	VV	7377	80344	0.65%	0.028%
6	4.270	4.250	4.281	VV	1701	22181	0.18%	0.008%
7	4.299	4.281	4.315	VV	8188	95776	0.77%	0.034%
8	4.324	4.315	4.339	VV	4852	56025	0.45%	0.020%
9	4.344	4.339	4.365	VV	3086	39153	0.31%	0.014%
10	4.381	4.365	4.394	VV	5502	61887	0.50%	0.022%
11	4.409	4.394	4.422	VV	12584	115944	0.93%	0.041%
12	4.431	4.422	4.449	VV	5330	61940	0.50%	0.022%
13	4.462	4.449	4.471	VV	3878	43371	0.35%	0.015%
14	4.477	4.471	4.485	VV	3483	26435	0.21%	0.009%
15	4.502	4.485	4.520	VV	46317	430583	3.46%	0.152%
16	4.528	4.520	4.543	VV	6494	67084	0.54%	0.024%
17	4.570	4.543	4.594	VV	46875	609991	4.90%	0.215%
18	4.611	4.594	4.643	VV	13143	149599	1.20%	0.053%
19	4.675	4.643	4.692	VV	15350	157782	1.27%	0.056%
20	4.702	4.692	4.720	VV	4390	51163	0.41%	0.018%
21	4.729	4.720	4.740	VV	2554	24376	0.20%	0.009%
22	4.759	4.740	4.770	VV	9665	96441	0.77%	0.034%
23	4.786	4.770	4.813	VV	21965	233987	1.88%	0.082%
24	4.833	4.813	4.842	VV	19297	169346	1.36%	0.060%
25	4.858	4.842	4.881	VV	121785	1146007	9.20%	0.404%
26	4.890	4.881	4.901	VV	6512	66093	0.53%	0.023%
27	4.911	4.901	4.927	VV	6893	71122	0.57%	0.025%
28	4.944	4.927	4.958	VV	3545	46987	0.38%	0.017%
29	4.975	4.958	4.991	VV	5874	83694	0.67%	0.029%
30	5.008	4.991	5.025	VV	6667	98960	0.79%	0.035%
31	5.046	5.025	5.055	VV	18044	201042	1.61%	0.071%
32	5.068	5.055	5.088	VV	32702	332854	2.67%	0.117%
33	5.107	5.088	5.121	VV	13468	157632	1.27%	0.056%
34	5.125	5.121	5.139	VV	6108	47409	0.38%	0.017%
35	5.147	5.139	5.154	VV	2101	16861	0.14%	0.006%
36	5.175	5.154	5.212	VV	77987	927926	7.45%	0.327%

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37	5.220	5.212	5.233	VV	5406	51755	0.42%	0.018%
38	5.248	5.233	5.282	VV	7967	132446	1.06%	0.047%
39	5.298	5.282	5.308	VV	2618	33877	0.27%	0.012%
40	5.358	5.308	5.375	VV	34292	592624	4.76%	0.209%
41	5.388	5.375	5.406	VV	48209	490495	3.94%	0.173%
42	5.420	5.406	5.432	VV	8586	110125	0.88%	0.039%
43	5.449	5.432	5.489	VV	56523	989898	7.95%	0.349%
44	5.502	5.489	5.519	VV	29625	306220	2.46%	0.108%
45	5.523	5.519	5.532	VV	7356	55912	0.45%	0.020%
46	5.542	5.532	5.554	VV	8790	92478	0.74%	0.033%
47	5.563	5.554	5.570	VV	6591	55350	0.44%	0.020%
48	5.587	5.570	5.611	VV	19151	254837	2.05%	0.090%
49	5.631	5.611	5.653	VV	36516	365045	2.93%	0.129%
50	5.681	5.653	5.688	VV	44429	476260	3.82%	0.168%
51	5.709	5.688	5.731	VV	1054351	9623719	77.28%	3.391%
52	5.747	5.731	5.785	VV	78756	1006442	8.08%	0.355%
53	5.801	5.785	5.818	VV	27392	302860	2.43%	0.107%
54	5.844	5.818	5.875	VV	56773	1044282	8.39%	0.368%
55	5.886	5.875	5.892	VV	20631	184560	1.48%	0.065%
56	5.904	5.892	5.915	VV	32536	349301	2.80%	0.123%
57	5.927	5.915	5.942	VV	45261	489602	3.93%	0.173%
58	5.969	5.942	5.993	VV	68159	983055	7.89%	0.346%
59	6.008	5.993	6.040	VV	21990	380205	3.05%	0.134%
60	6.069	6.040	6.085	VV	53629	727977	5.85%	0.257%
61	6.090	6.085	6.112	VV	27216	295432	2.37%	0.104%
62	6.152	6.112	6.196	VV	78078	1272508	10.22%	0.448%
63	6.230	6.196	6.245	VV	31197	552838	4.44%	0.195%
64	6.260	6.245	6.276	VV	32134	447932	3.60%	0.158%
65	6.297	6.276	6.319	VV	39619	649276	5.21%	0.229%
66	6.341	6.319	6.358	VV	35231	496320	3.99%	0.175%
67	6.370	6.358	6.379	VV	19621	210679	1.69%	0.074%
68	6.389	6.379	6.403	VV	21286	251344	2.02%	0.089%
69	6.418	6.403	6.440	VV	59685	662452	5.32%	0.233%
70	6.458	6.440	6.476	VV	29702	379242	3.05%	0.134%
71	6.494	6.476	6.506	VV	16828	237095	1.90%	0.084%
72	6.534	6.506	6.551	VV	42217	654091	5.25%	0.230%
73	6.559	6.551	6.599	VV	18313	416100	3.34%	0.147%
74	6.615	6.599	6.631	VV	21970	293450	2.36%	0.103%
75	6.662	6.631	6.681	VV	56510	995485	7.99%	0.351%
76	6.697	6.681	6.728	VV	43760	935672	7.51%	0.330%
77	6.757	6.728	6.793	VV	1039518	10269048	82.46%	3.618%
78	6.807	6.793	6.825	VV	22234	329574	2.65%	0.116%
79	6.848	6.825	6.866	VV	57629	894770	7.18%	0.315%
80	6.889	6.866	6.894	VV	47578	597896	4.80%	0.211%
81	6.902	6.894	6.923	VV	49932	570358	4.58%	0.201%
82	6.962	6.923	6.978	VV	20266	514334	4.13%	0.181%
83	6.994	6.978	7.013	VV	15921	280848	2.26%	0.099%
84	7.036	7.013	7.050	VV	48820	654011	5.25%	0.230%
85	7.055	7.050	7.083	VV	30361	474947	3.81%	0.167%
86	7.095	7.083	7.100	VV	20577	193028	1.55%	0.068%
87	7.115	7.100	7.123	VV	32778	381663	3.06%	0.134%
88	7.135	7.123	7.175	VV	35404	703896	5.65%	0.248%
89	7.190	7.175	7.214	VV	16414	333031	2.67%	0.117%

90	7.234	7.214	7.262	VV	49898	855283	6.87%	0.301%
91	7.282	7.262	7.309	VV	37985	620296	4.98%	0.219%
92	7.326	7.309	7.341	VV	15274	251954	2.02%	0.089%
93	7.369	7.341	7.411	VV	1034222	10607382	85.18%	3.737%
94	7.424	7.411	7.447	VV	19290	340926	2.74%	0.120%
95	7.461	7.447	7.471	VV	17640	222226	1.78%	0.078%
96	7.486	7.471	7.504	VV	21020	354101	2.84%	0.125%
97	7.523	7.504	7.536	VV	29724	400944	3.22%	0.141%
98	7.550	7.536	7.570	VV	24830	407976	3.28%	0.144%
99	7.604	7.570	7.610	VV	20015	436904	3.51%	0.154%
100	7.629	7.610	7.664	VV	64686	1127725	9.06%	0.397%
101	7.678	7.664	7.695	VV	33166	436630	3.51%	0.154%
102	7.699	7.695	7.704	VV	16418	81762	0.66%	0.029%
103	7.724	7.704	7.733	VV	107682	1159803	9.31%	0.409%
104	7.739	7.733	7.786	VV	93755	1423560	11.43%	0.502%
105	7.802	7.786	7.815	VV	14772	241567	1.94%	0.085%
106	7.841	7.815	7.856	VV	149759	1705414	13.69%	0.601%
107	7.868	7.856	7.888	VV	98954	1128226	9.06%	0.398%
108	7.904	7.888	7.916	VV	31523	430183	3.45%	0.152%
109	7.934	7.916	7.952	VV	82974	1039647	8.35%	0.366%
110	7.957	7.952	7.975	VV	25302	326053	2.62%	0.115%
111	8.024	7.975	8.057	VV	1162007	12453555	100.00%	4.388%
112	8.073	8.057	8.093	VV	22279	394605	3.17%	0.139%
113	8.113	8.093	8.125	VV	28293	405637	3.26%	0.143%
114	8.139	8.125	8.154	VV	26121	375479	3.02%	0.132%
115	8.163	8.154	8.183	VV	19317	291609	2.34%	0.103%
116	8.220	8.183	8.247	VV	652871	6895796	55.37%	2.430%
117	8.252	8.247	8.264	VV	16336	153121	1.23%	0.054%
118	8.280	8.264	8.290	VV	18968	261965	2.10%	0.092%
119	8.320	8.290	8.365	VV	1193897	12337018	99.06%	4.347%
120	8.384	8.365	8.408	VV	22960	451365	3.62%	0.159%
121	8.424	8.408	8.451	VV	25809	531277	4.27%	0.187%
122	8.466	8.451	8.497	VV	26960	531039	4.26%	0.187%
123	8.511	8.497	8.525	VV	16173	236571	1.90%	0.083%
124	8.532	8.525	8.537	VV	13725	97499	0.78%	0.034%
125	8.557	8.537	8.577	VV	48347	685786	5.51%	0.242%
126	8.591	8.577	8.614	VV	23765	393513	3.16%	0.139%
127	8.630	8.614	8.635	VV	18367	197843	1.59%	0.070%
128	8.652	8.635	8.670	VV	63864	792378	6.36%	0.279%
129	8.683	8.670	8.707	VV	25123	470853	3.78%	0.166%
130	8.724	8.707	8.742	VV	43463	565939	4.54%	0.199%
131	8.765	8.742	8.817	VV	48703	951952	7.64%	0.335%
132	8.837	8.817	8.851	VV	11510	215319	1.73%	0.076%
133	8.879	8.851	8.897	VV	38520	570315	4.58%	0.201%
134	8.911	8.897	8.931	VV	31939	401954	3.23%	0.142%
135	8.940	8.931	8.951	VV	10160	116128	0.93%	0.041%
136	8.961	8.951	8.975	VV	10048	134591	1.08%	0.047%
137	9.013	8.975	9.035	VV	35534	665137	5.34%	0.234%
138	9.045	9.035	9.053	VV	9500	99247	0.80%	0.035%
139	9.098	9.053	9.146	VV	1115082	12122270	97.34%	4.271%
140	9.172	9.146	9.192	VV	34227	520784	4.18%	0.183%
141	9.204	9.192	9.226	VV	14265	243183	1.95%	0.086%

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142	9.245	9.226	9.262	VV	15478	260644	2.09%	0.092%
143	9.280	9.262	9.288	VV	16479	204887	1.65%	0.072%
144	9.303	9.288	9.327	VV	36552	498722	4.00%	0.176%
145	9.341	9.327	9.360	VV	10702	182939	1.47%	0.064%
146	9.378	9.360	9.403	VV	38877	516348	4.15%	0.182%
147	9.418	9.403	9.452	VV	13049	308383	2.48%	0.109%
148	9.472	9.452	9.489	VV	11579	197706	1.59%	0.070%
149	9.522	9.489	9.559	VV	75060	1023470	8.22%	0.361%
150	9.585	9.559	9.593	VV	6265	121303	0.97%	0.043%
151	9.611	9.593	9.647	VV	7006	183991	1.48%	0.065%
152	9.683	9.647	9.730	VV	8645	264146	2.12%	0.093%
153	9.746	9.730	9.765	VV	3564	66064	0.53%	0.023%
154	9.784	9.765	9.807	VV	4267	88970	0.71%	0.031%
155	9.838	9.807	9.860	VV	8847	164594	1.32%	0.058%
156	9.908	9.860	9.925	VV	5668	176828	1.42%	0.062%
157	9.941	9.925	9.951	VV	6911	85270	0.68%	0.030%
158	9.969	9.951	9.993	VV	10764	200525	1.61%	0.071%
159	10.011	9.993	10.064	VV	9866	233727	1.88%	0.082%
160	10.087	10.064	10.126	VV	7776	199999	1.61%	0.070%
161	10.143	10.126	10.162	VV	5017	89835	0.72%	0.032%
162	10.182	10.162	10.195	VV	4106	70663	0.57%	0.025%
163	10.220	10.195	10.235	VV	4287	86991	0.70%	0.031%
164	10.255	10.235	10.271	VV	5898	90035	0.72%	0.032%
165	10.292	10.271	10.359	VV	12634	293799	2.36%	0.104%
166	10.384	10.359	10.404	VV	3505	72370	0.58%	0.025%
167	10.449	10.404	10.454	VV	9247	112079	0.90%	0.039%
168	10.486	10.454	10.528	VV	1037457	11514016	92.46%	4.057%
169	10.563	10.528	10.638	VV	1025505	11393029	91.48%	4.014%
170	10.656	10.638	10.669	VV	3378	60012	0.48%	0.021%
171	10.674	10.669	10.696	VV	3106	44148	0.35%	0.016%
172	10.701	10.696	10.737	VV	2478	47843	0.38%	0.017%
173	10.758	10.737	10.774	VV	2038	37275	0.30%	0.013%
174	10.806	10.774	10.822	VV	4612	86475	0.69%	0.030%
175	10.835	10.822	10.869	VV	3129	73697	0.59%	0.026%
176	10.883	10.869	10.923	VV	3331	73483	0.59%	0.026%
177	10.954	10.923	10.994	VV	64448	764746	6.14%	0.269%
178	11.011	10.994	11.024	VV	2440	36394	0.29%	0.013%
179	11.033	11.024	11.055	VV	2089	31544	0.25%	0.011%
180	11.061	11.055	11.065	VV	1068	6178	0.05%	0.002%
181	11.081	11.065	11.119	VV	1329	31368	0.25%	0.011%
182	11.143	11.119	11.210	VV	2301	62569	0.50%	0.022%
183	11.254	11.210	11.279	VV	686378	7304383	58.65%	2.574%
184	11.288	11.279	11.305	VV	5081	59178	0.48%	0.021%
185	11.321	11.305	11.364	VV	4192	77756	0.62%	0.027%
186	11.396	11.364	11.413	VV	2357	48769	0.39%	0.017%
187	11.432	11.413	11.450	VV	3448	55769	0.45%	0.020%
188	11.468	11.450	11.518	VV	3124	70452	0.57%	0.025%
189	11.526	11.518	11.529	VV	720	4168	0.03%	0.001%
190	11.537	11.529	11.543	VV	788	5908	0.05%	0.002%
191	11.546	11.543	11.549	VV	743	2493	0.02%	0.001%
192	11.553	11.549	11.555	VV	777	2863	0.02%	0.001%
193	11.589	11.555	11.595	VV	1981	31165	0.25%	0.011%
194	11.601	11.595	11.622	VV	2035	29400	0.24%	0.010%

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195	11.628	11.622	11.645	VV	1545	19760	0.16%	0.007%
196	11.674	11.645	11.736	VV	7116	123125	0.99%	0.043%
197	11.744	11.736	11.750	VV	858	6210	0.05%	0.002%
198	11.771	11.750	11.784	VV	1076	17089	0.14%	0.006%
199	11.789	11.784	11.806	VV	999	11960	0.10%	0.004%
200	11.835	11.806	11.849	VV	1915	37261	0.30%	0.013%
201	11.869	11.849	11.931	VV	15796	212060	1.70%	0.075%
202	11.948	11.931	11.975	VV	1048	23776	0.19%	0.008%
203	11.984	11.975	11.995	VV	892	8976	0.07%	0.003%
204	12.029	11.995	12.054	VV	1692	38967	0.31%	0.014%
205	12.074	12.054	12.087	VV	2465	32199	0.26%	0.011%
206	12.092	12.087	12.103	VV	1846	15567	0.13%	0.005%
207	12.122	12.103	12.154	VV	4225	64539	0.52%	0.023%
208	12.175	12.154	12.194	VV	3554	51859	0.42%	0.018%
209	12.219	12.194	12.232	VV	6520	87872	0.71%	0.031%
210	12.256	12.232	12.263	VV	64591	629072	5.05%	0.222%
211	12.291	12.263	12.379	VV	961983	11313886	90.85%	3.986%
212	12.392	12.379	12.408	VV	1129	17285	0.14%	0.006%
213	12.420	12.408	12.436	VV	952	12783	0.10%	0.005%
214	12.471	12.436	12.546	VV	7658	117405	0.94%	0.041%
215	12.585	12.546	12.624	VV	976829	11122249	89.31%	3.919%
216	12.642	12.624	12.667	VV	9442	139580	1.12%	0.049%
217	12.693	12.667	12.722	VV	90204	1058033	8.50%	0.373%
218	12.739	12.722	12.767	VV	1819	34178	0.27%	0.012%
219	12.772	12.767	12.780	VV	952	7000	0.06%	0.002%
220	12.790	12.780	12.802	VV	953	9333	0.07%	0.003%
221	12.805	12.802	12.810	VV	509	2123	0.02%	0.001%
222	12.816	12.810	12.830	VV	493	5184	0.04%	0.002%
223	12.863	12.830	12.900	VV	57604	707086	5.68%	0.249%
224	12.917	12.900	12.963	VV	4315	73113	0.59%	0.026%
225	12.994	12.963	13.034	VV	868	26240	0.21%	0.009%
226	13.039	13.034	13.043	VV	664	3101	0.02%	0.001%
227	13.092	13.043	13.141	VV	4212	87251	0.70%	0.031%
228	13.147	13.141	13.174	VV	891	11145	0.09%	0.004%
229	13.176	13.174	13.183	VV	410	1870	0.02%	0.001%
230	13.190	13.183	13.195	VV	455	2974	0.02%	0.001%
231	13.203	13.195	13.217	VV	590	5995	0.05%	0.002%
232	13.222	13.217	13.225	VV	433	2170	0.02%	0.001%
233	13.229	13.225	13.233	VV	561	2129	0.02%	0.001%
234	13.241	13.233	13.253	VV	547	5367	0.04%	0.002%
235	13.273	13.253	13.278	VV	599	7335	0.06%	0.003%
236	13.294	13.278	13.307	VV	827	9684	0.08%	0.003%
237	13.319	13.307	13.332	VV	563	7058	0.06%	0.002%
238	13.371	13.332	13.380	VV	716	15742	0.13%	0.006%
239	13.400	13.380	13.419	VV	3427	43865	0.35%	0.015%
240	13.446	13.419	13.494	VV	57620	699846	5.62%	0.247%
241	13.500	13.494	13.533	VV	385	4800	0.04%	0.002%
242	13.543	13.533	13.559	PV	208	2454	0.02%	0.001%
243	13.579	13.570	13.588	VV	223	1719	0.01%	0.001%
244	13.593	13.588	13.605	VV	139	1070	0.01%	0.000%
245	13.632	13.624	13.660	VV	185	2075	0.02%	0.001%
246	13.666	13.660	13.688	VV	211	2620	0.02%	0.001%

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247	13.714	13.688	13.735	VV	288	4837	0.04%	0.002%
248	13.741	13.735	13.749	VV	292	1314	0.01%	0.000%
249	13.780	13.749	13.820	VV	339	7983	0.06%	0.003%
250	13.844	13.820	13.852	VV	398	4601	0.04%	0.002%
251	13.883	13.852	13.912	VV	1470	24313	0.20%	0.009%
252	13.916	13.912	13.921	VV	373	1680	0.01%	0.001%
253	13.930	13.921	13.968	VV	433	6981	0.06%	0.002%
254	14.007	13.968	14.027	VV	979	17055	0.14%	0.006%
255	14.039	14.027	14.048	VV	384	3954	0.03%	0.001%
256	14.069	14.048	14.114	VV	1366	27037	0.22%	0.010%
257	14.120	14.114	14.132	VV	526	5204	0.04%	0.002%
258	14.138	14.132	14.154	VV	482	5039	0.04%	0.002%
259	14.172	14.154	14.195	VV	630	9456	0.08%	0.003%
260	14.222	14.195	14.279	VV	3934	60956	0.49%	0.021%
261	14.304	14.279	14.337	VV	4207	57354	0.46%	0.020%
262	14.356	14.337	14.374	VV	537	8273	0.07%	0.003%
263	14.384	14.374	14.414	VV	452	6446	0.05%	0.002%
264	14.456	14.414	14.473	VV	803498	10538346	84.62%	3.713%
265	14.500	14.473	14.524	VV	858887	10369534	83.27%	3.654%
266	14.543	14.524	14.612	VV	59316	813612	6.53%	0.287%
267	14.627	14.612	14.674	VV	2058	42546	0.34%	0.015%
268	14.678	14.674	14.694	VV	559	5333	0.04%	0.002%
269	14.715	14.694	14.725	VV	1035	12392	0.10%	0.004%
270	14.728	14.725	14.745	VV	939	7437	0.06%	0.003%
271	14.750	14.745	14.760	VV	429	3040	0.02%	0.001%
272	14.769	14.760	14.804	VV	427	7341	0.06%	0.003%
273	14.820	14.804	14.827	VV	337	3252	0.03%	0.001%
274	14.833	14.827	14.839	VV	367	1745	0.01%	0.001%
275	14.844	14.839	14.857	VV	260	2519	0.02%	0.001%
276	14.878	14.857	14.900	VV	3832	50454	0.41%	0.018%
277	14.923	14.900	14.989	VV	5847	133961	1.08%	0.047%
278	14.996	14.989	15.004	VV	693	5224	0.04%	0.002%
279	15.014	15.004	15.036	VV	573	8426	0.07%	0.003%
280	15.067	15.036	15.110	VV	2457	45663	0.37%	0.016%
281	15.113	15.110	15.129	VV	376	2279	0.02%	0.001%
282	15.138	15.129	15.150	PV	140	1292	0.01%	0.000%
283	15.165	15.159	15.175	VV	220	1603	0.01%	0.001%
284	15.187	15.175	15.216	VV	304	5707	0.05%	0.002%
285	15.260	15.216	15.279	VV	676	15825	0.13%	0.006%
286	15.282	15.279	15.296	VV	340	2605	0.02%	0.001%
287	15.303	15.296	15.323	VV	391	4296	0.03%	0.002%
288	15.330	15.323	15.337	VV	372	2215	0.02%	0.001%
289	15.350	15.337	15.365	VV	404	5686	0.05%	0.002%
290	15.389	15.365	15.427	VV	896	22607	0.18%	0.008%
291	15.447	15.427	15.490	VV	657	15030	0.12%	0.005%
292	15.521	15.490	15.532	VV	1004	13634	0.11%	0.005%
293	15.561	15.532	15.598	VV	51007	652938	5.24%	0.230%
294	15.606	15.598	15.636	VV	558	6603	0.05%	0.002%
295	15.703	15.636	15.733	VV	482	14581	0.12%	0.005%
296	15.741	15.733	15.755	VV	432	3775	0.03%	0.001%
297	15.779	15.755	15.784	VV	312	3829	0.03%	0.001%
298	15.787	15.784	15.806	VV	220	1397	0.01%	0.000%
299	15.835	15.822	15.847	VV	370	2539	0.02%	0.001%

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300	15.866	15.847	15.881	VV	428	5240	0.04%	0.002%
301	15.885	15.881	15.892	VV	231	1459	0.01%	0.001%
302	15.899	15.892	15.911	VV	257	1713	0.01%	0.001%
303	15.936	15.911	15.957	VV	817	13441	0.11%	0.005%
304	16.004	15.957	16.018	VV	700543	10080390	80.94%	3.552%
305	16.040	16.018	16.091	VV	804132	10103531	81.13%	3.560%
306	16.114	16.091	16.152	VV	7070	115244	0.93%	0.041%
307	16.171	16.152	16.203	VV	1888	34263	0.28%	0.012%
308	16.211	16.203	16.225	VV	803	8674	0.07%	0.003%
309	16.256	16.225	16.302	VV	2432	45981	0.37%	0.016%
310	16.321	16.302	16.327	VV	679	7031	0.06%	0.002%
311	16.381	16.327	16.453	VV	725847	9589951	77.01%	3.379%
312	16.503	16.453	16.531	VV	49869	753486	6.05%	0.265%
313	16.547	16.531	16.578	VV	3492	51356	0.41%	0.018%
314	16.592	16.578	16.600	VV	587	6615	0.05%	0.002%
315	16.605	16.600	16.610	VV	462	2220	0.02%	0.001%
316	16.616	16.610	16.626	VV	402	3094	0.02%	0.001%
317	16.635	16.626	16.640	VV	345	2453	0.02%	0.001%
318	16.648	16.640	16.654	VV	336	2616	0.02%	0.001%
319	16.658	16.654	16.665	VV	367	2027	0.02%	0.001%
320	16.669	16.665	16.674	VV	413	1342	0.01%	0.000%
321	16.688	16.674	16.692	VV	330	2871	0.02%	0.001%
322	16.698	16.692	16.713	VV	333	3748	0.03%	0.001%
323	16.717	16.713	16.721	VV	486	1661	0.01%	0.001%
324	16.723	16.721	16.746	VV	325	3572	0.03%	0.001%
325	16.753	16.746	16.775	VV	264	3283	0.03%	0.001%
326	16.802	16.775	16.809	VV	336	4598	0.04%	0.002%
327	16.813	16.809	16.838	VV	270	2350	0.02%	0.001%
328	16.882	16.838	16.890	PV	501	9487	0.08%	0.003%
329	16.896	16.890	16.907	VV	340	3194	0.03%	0.001%
330	16.912	16.907	16.924	VV	471	3626	0.03%	0.001%
331	16.952	16.924	16.987	VV	1954	31327	0.25%	0.011%
332	16.992	16.987	17.005	VV	98	1203	0.01%	0.000%
333	17.023	17.012	17.040	VV	302	3766	0.03%	0.001%
334	17.069	17.046	17.112	VV	631	14047	0.11%	0.005%
335	17.155	17.112	17.198	VV	4724	75588	0.61%	0.027%
336	17.226	17.198	17.260	VV	5098	84001	0.67%	0.030%
337	17.279	17.260	17.307	VV	1116	25122	0.20%	0.009%
338	17.314	17.307	17.342	VV	788	12743	0.10%	0.004%
339	17.389	17.342	17.445	VV	44448	628880	5.05%	0.222%
340	17.455	17.445	17.460	VV	443	3388	0.03%	0.001%
341	17.476	17.460	17.499	VV	788	13466	0.11%	0.005%
342	17.504	17.499	17.512	VV	506	3068	0.02%	0.001%
343	17.518	17.512	17.524	VV	489	2852	0.02%	0.001%
344	17.537	17.524	17.556	VV	719	7889	0.06%	0.003%
345	17.581	17.556	17.592	VV	487	6432	0.05%	0.002%
346	17.598	17.592	17.606	VV	244	1288	0.01%	0.000%
347	17.682	17.624	17.700	VV	763	13238	0.11%	0.005%
348	17.749	17.700	17.761	VV	656179	9446166	75.85%	3.328%
349	17.786	17.761	17.948	VV	626641	8962526	71.97%	3.158%
350	18.002	17.948	18.101	VV	591308	8985215	72.15%	3.166%
351	18.127	18.101	18.149	VV	427	9062	0.07%	0.003%

rteres
Sum of corrected areas: 283809647

Aromatic EPH 111424.M Sat Nov 16 10:28:04 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-4-TPH-6MS			SDG No.:	P4839
Lab Sample ID:	P4839-22MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.5
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
FD048770.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.32		0.34	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16	14.1		0.38	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	23.4		1.07	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	37.8		2.23	2.98	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.1		40 - 140	102%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.7		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.8		40 - 140	78%	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:	P4839-22MS	Acq On:	18 Nov 2024 23:41
Client Sample ID:	EX-4-TPH-6MS	Operator:	YP/AJ
Data file:	FD048770.D	Misc:	
Instrument:	FID_D	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	16308142	84.93	200	ug/ml
Aromatic C12-C16	5.806	8.411	36396082	189.111	300	ug/ml
Aromatic C16-C21	8.412	12.674	58340240	313.987	500	ug/ml
Aromatic C21-C36	12.675	18.081	79817186	507.643	800	ug/ml
Aromatic EPH	4.088	18.081	190861650	1100		ug/ml
2-Bromonaphthalene (SURR)	7.364	7.364	9001948	51.13		ug/ml
2-Flurobiphenyl (SURR)	8.214	8.214	5843108	50.73		ug/ml
ortho-Terphenyl (SURR)	11.251	11.251	7463900	38.81		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.364	9001948	51.130 ug/ml
Spiked Amount	50.000		Recovery =	102.26%
6) S	2-Flurobiphenyl (SURR)	8.214	5843108	50.735 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	101.47%
11) S	ortho-Terphenyl (SURR)	11.251	7463900	38.807 ug/ml
Spiked Amount	50.000		Recovery =	77.61%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.185	6948117	36.868 ug/mlm
2) T	Naphthalene (C11.7)	5.703	8101596	41.425 ug/ml
3) T	2-Methylnaphthalene (...	6.750	8006402	41.895 ug/ml
5) T	Acenaphthylene (C15.06)	8.017	9255342	47.726 ug/ml
7) T	Acenaphthene (C15.5)	8.314	9891892	51.428 ug/ml
8) T	Flouorene (C16.55)	9.093	9942337	51.823 ug/ml
9) T	Phenanthrene (C19.36)	10.481	10157412	55.413 ug/ml
10) T	Anthracene (C19.43)	10.558	10090846	53.884 ug/ml
12) T	Fluoranthene (C21.85)	12.288	10604950	57.912 ug/mlm
13) T	Pyrene (C20.8)	12.582	10226486	56.564 ug/ml
14) T	Benzo[a]anthracene (C...	14.451	9677620	58.830 ug/ml
15) T	Chrysene (C27.41)	14.495	9518979	54.390 ug/ml
16) T	benzo[b]fluoranthene ...	16.000	9185774	58.464 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.035	9081131	55.645 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.377	8609948	57.747 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.744	8635216	69.904 ug/ml
20) T	Dibenz[a,h]anthracene...	17.781	8125990	51.819 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.997	8209382	57.534 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

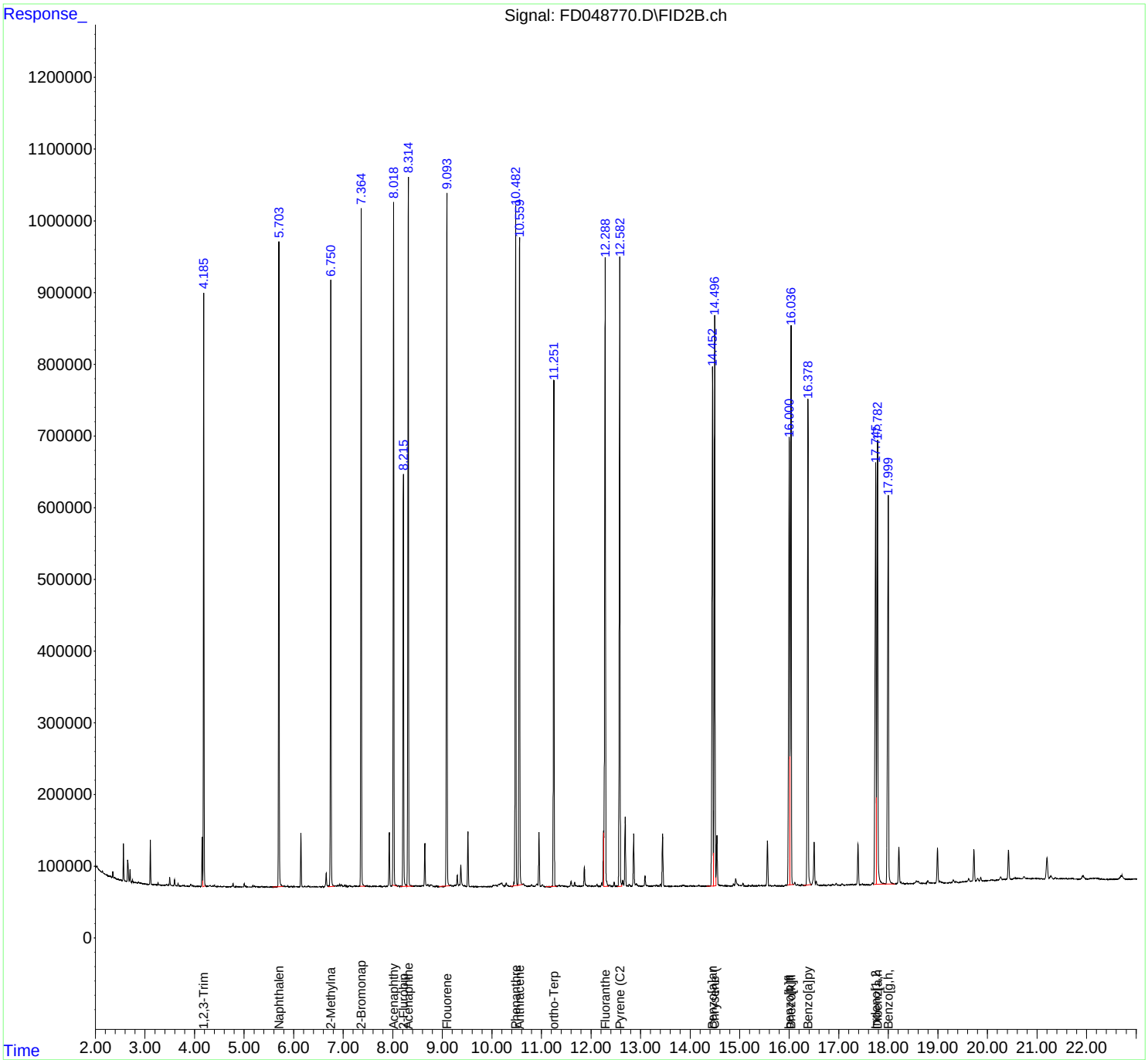
Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048770.D
Signal(s) : FID2B.ch
Acq On : 18 Nov 2024 23:41
Sample : P4839-22MS
Misc :
ALS Vial : 71 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.106	4.091	4.127	PV	401	3987	0.04%	0.002%
2	4.154	4.127	4.167	PV	69382	599461	5.71%	0.289%
3	4.185	4.167	4.247	VV	826558	6990242	66.63%	3.369%
4	4.263	4.247	4.281	VV	1261	17627	0.17%	0.008%
5	4.316	4.281	4.339	VV	2051	42096	0.40%	0.020%
6	4.349	4.339	4.355	VV	544	4299	0.04%	0.002%
7	4.374	4.355	4.388	VV	1603	17276	0.16%	0.008%
8	4.403	4.388	4.422	VV	2314	22664	0.22%	0.011%
9	4.442	4.422	4.458	VV	409	5595	0.05%	0.003%
10	4.473	4.458	4.483	VV	725	6871	0.07%	0.003%
11	4.499	4.483	4.506	VV	601	6405	0.06%	0.003%
12	4.517	4.506	4.522	VV	711	5412	0.05%	0.003%
13	4.525	4.522	4.536	VV	583	3899	0.04%	0.002%
14	4.540	4.536	4.554	VV	317	2852	0.03%	0.001%
15	4.566	4.554	4.575	VV	457	4236	0.04%	0.002%
16	4.593	4.575	4.638	VV	1047	21116	0.20%	0.010%
17	4.676	4.651	4.681	VV	259	2776	0.03%	0.001%
18	4.705	4.681	4.729	VV	465	8344	0.08%	0.004%
19	4.753	4.729	4.758	VV	951	10165	0.10%	0.005%
20	4.777	4.758	4.804	VV	5146	60258	0.57%	0.029%
21	4.833	4.804	4.845	PV	1208	14544	0.14%	0.007%
22	4.858	4.845	4.879	VV	1107	13584	0.13%	0.007%
23	4.881	4.879	4.905	VV	475	5617	0.05%	0.003%
24	4.911	4.905	4.929	VV	388	3483	0.03%	0.002%
25	4.940	4.929	4.953	VV	344	3198	0.03%	0.002%
26	4.967	4.953	4.979	VV	524	5337	0.05%	0.003%
27	5.002	4.979	5.029	VV	4786	56144	0.54%	0.027%
28	5.037	5.029	5.071	VV	1020	15611	0.15%	0.008%
29	5.077	5.071	5.091	VV	272	2848	0.03%	0.001%
30	5.097	5.091	5.103	VV	280	1523	0.01%	0.001%
31	5.108	5.103	5.116	VV	329	2009	0.02%	0.001%
32	5.120	5.116	5.128	VV	264	1175	0.01%	0.001%
33	5.141	5.128	5.147	PV	337	2455	0.02%	0.001%
34	5.150	5.147	5.157	VV	255	1277	0.01%	0.001%
35	5.176	5.157	5.195	VV	2503	31011	0.30%	0.015%
36	5.214	5.195	5.235	VV	2030	28551	0.27%	0.014%

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rteres

37	5.244	5.235	5.250	VV	720	5094	0.05%	0.002%
38	5.255	5.250	5.262	VV	729	4097	0	
39	5.271	5.262	5.303	VV	722	10024	0	
40	5.364	5.303	5.390	VV	1143	28869	0	
41	5.412	5.390	5.434	VV	741	10135	0	
42	5.449	5.434	5.460	VV	855	10018	0	
43	5.463	5.460	5.488	VV	711	5149	0.05%	0.002%
44	5.499	5.488	5.515	PV	321	3130	0.03%	0.002%
45	5.530	5.515	5.547	VV	515	6371	0.06%	0.003%
46	5.557	5.547	5.565	VV	352	2416	0.02%	0.001%
47	5.576	5.565	5.581	VV	385	2694	0.03%	0.001%
48	5.585	5.581	5.596	VV	290	1778	0.02%	0.001%
49	5.666	5.607	5.674	VV	726	17748	0.17%	0.009%
50	5.703	5.674	5.785	VV	902360	8170451	77.88%	3.938%
51	5.789	5.785	5.794	VV	1243	6220	0.06%	0.003%
52	5.811	5.794	5.829	VV	2020	30433	0.29%	0.015%
53	5.846	5.829	5.862	VV	1082	19271	0.18%	0.009%
54	5.882	5.862	5.903	VV	1878	30085	0.29%	0.015%
55	5.906	5.903	5.910	VV	536	2473	0.02%	0.001%
56	5.928	5.910	5.938	VV	1067	14166	0.14%	0.007%
57	5.947	5.938	5.960	VV	1208	13616	0.13%	0.007%
58	5.964	5.960	5.990	VV	968	13308	0.13%	0.006%
59	6.003	5.990	6.019	VV	1490	16295	0.16%	0.008%
60	6.026	6.019	6.035	VV	654	5875	0.06%	0.003%
61	6.039	6.035	6.054	VV	686	6677	0.06%	0.003%
62	6.070	6.054	6.110	VV	973	24851	0.24%	0.012%
63	6.148	6.110	6.200	VV	75643	726080	6.92%	0.350%
64	6.229	6.200	6.246	VV	1318	21812	0.21%	0.011%
65	6.267	6.246	6.278	VV	1037	12131	0.12%	0.006%
66	6.296	6.278	6.320	VV	1857	28419	0.27%	0.014%
67	6.331	6.320	6.348	VV	1106	10368	0.10%	0.005%
68	6.368	6.348	6.400	VV	1007	17384	0.17%	0.008%
69	6.415	6.400	6.436	VV	1280	15311	0.15%	0.007%
70	6.454	6.436	6.474	VV	712	11659	0.11%	0.006%
71	6.488	6.474	6.502	VV	581	6459	0.06%	0.003%
72	6.516	6.502	6.525	VV	736	7876	0.08%	0.004%
73	6.531	6.525	6.553	VV	811	7615	0.07%	0.004%
74	6.586	6.553	6.605	VV	1082	17217	0.16%	0.008%
75	6.657	6.605	6.697	VV	20052	255243	2.43%	0.123%
76	6.710	6.697	6.717	VV	2183	22637	0.22%	0.011%
77	6.751	6.717	6.829	VV	845127	8065523	76.88%	3.888%
78	6.843	6.829	6.863	VV	1945	32713	0.31%	0.016%
79	6.869	6.863	6.873	VV	1458	8589	0.08%	0.004%
80	6.888	6.873	6.907	VV	3035	43112	0.41%	0.021%
81	6.923	6.907	6.937	VV	3928	46220	0.44%	0.022%
82	6.953	6.937	6.967	VV	3625	48619	0.46%	0.023%
83	6.976	6.967	7.011	VV	2478	44882	0.43%	0.022%
84	7.031	7.011	7.050	VV	3406	48904	0.47%	0.024%
85	7.061	7.050	7.082	VV	1748	25971	0.25%	0.013%
86	7.094	7.082	7.098	VV	1153	10431	0.10%	0.005%
87	7.130	7.098	7.147	VV	2230	47519	0.45%	0.023%
88	7.153	7.147	7.195	VV	1479	28371	0.27%	0.014%
89	7.228	7.195	7.263	VV	2167	51811	0.49%	0.025%

Instrument :
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rteres

90	7.278	7.263	7.304	VV	1680	30488	0.29%	0.015%
91	7.324	7.304	7.337	VV	2106	28664		
92	7.364	7.337	7.448	VV	945613	9078064	86	
93	7.485	7.448	7.510	VV	1808	55622		
94	7.519	7.510	7.541	VV	1446	21599		
95	7.547	7.541	7.571	VV	1053	16606		
96	7.598	7.571	7.606	VV	1144	21055	0.20%	0.010%
97	7.627	7.606	7.651	VV	1594	32202	0.31%	0.016%
98	7.655	7.651	7.665	VV	1030	7882	0.08%	0.004%
99	7.679	7.665	7.697	VV	1377	19269	0.18%	0.009%
100	7.721	7.697	7.735	VV	1140	22180	0.21%	0.011%
101	7.752	7.735	7.784	VV	1712	32908	0.31%	0.016%
102	7.788	7.784	7.790	VV	805	2948	0.03%	0.001%
103	7.796	7.790	7.803	VV	926	6648	0.06%	0.003%
104	7.829	7.803	7.859	VV	1535	37415	0.36%	0.018%
105	7.876	7.859	7.893	VV	1583	23654	0.23%	0.011%
106	7.931	7.893	7.969	VV	76410	815483	7.77%	0.393%
107	8.018	7.969	8.096	VV	958450	9408645	89.69%	4.535%
108	8.113	8.096	8.148	VV	2115	45106	0.43%	0.022%
109	8.164	8.148	8.184	VV	1441	22587	0.22%	0.011%
110	8.215	8.184	8.265	VV	576342	5865155	55.91%	2.827%
111	8.274	8.265	8.283	VV	3222	31571	0.30%	0.015%
112	8.315	8.283	8.370	VV	992455	9950280	94.85%	4.796%
113	8.383	8.370	8.407	VV	1744	34868	0.33%	0.017%
114	8.411	8.407	8.435	VV	1497	23321	0.22%	0.011%
115	8.437	8.435	8.446	VV	1441	8304	0.08%	0.004%
116	8.476	8.446	8.504	VV	2297	58719	0.56%	0.028%
117	8.526	8.504	8.542	VV	1832	32709	0.31%	0.016%
118	8.560	8.542	8.572	VV	1775	29345	0.28%	0.014%
119	8.575	8.572	8.584	VV	1736	11012	0.10%	0.005%
120	8.600	8.584	8.623	VV	2194	42750	0.41%	0.021%
121	8.648	8.623	8.677	VV	61339	640134	6.10%	0.309%
122	8.683	8.677	8.698	VV	2527	30386	0.29%	0.015%
123	8.711	8.698	8.734	VV	3801	58761	0.56%	0.028%
124	8.761	8.734	8.774	VV	3423	60819	0.58%	0.029%
125	8.787	8.774	8.820	VV	3346	56534	0.54%	0.027%
126	8.831	8.820	8.861	VV	1239	21161	0.20%	0.010%
127	8.881	8.861	8.907	VV	1615	26324	0.25%	0.013%
128	8.925	8.907	8.956	VV	843	18060	0.17%	0.009%
129	8.965	8.956	8.971	VV	524	4329	0.04%	0.002%
130	8.993	8.971	9.003	VV	867	12922	0.12%	0.006%
131	9.015	9.003	9.034	VV	874	12483	0.12%	0.006%
132	9.042	9.034	9.057	VV	839	10173	0.10%	0.005%
133	9.093	9.057	9.153	VV	969161	10065289	95.94%	4.851%
134	9.172	9.153	9.197	VV	2668	55708	0.53%	0.027%
135	9.203	9.197	9.217	VV	1538	17218	0.16%	0.008%
136	9.250	9.217	9.272	VV	2725	72275	0.69%	0.035%
137	9.302	9.272	9.332	VV	16623	230853	2.20%	0.111%
138	9.346	9.332	9.355	VV	3423	40744	0.39%	0.020%
139	9.375	9.355	9.437	VV	30992	435753	4.15%	0.210%
140	9.453	9.437	9.491	VV	2052	41210	0.39%	0.020%
141	9.518	9.491	9.553	VV	77426	821799	7.83%	0.396%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
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Instrument :
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rteres

142	9.561	9.553	9.572	VV	494	5061	0.05%	0.002%
143	9.589	9.572	9.622	VV	832	19510		
144	9.639	9.622	9.653	VV	706	10171		
145	9.663	9.653	9.682	VV	755	9563		
146	9.690	9.682	9.710	VV	709	7708		
147	9.723	9.710	9.759	VV	689	13686		
148	9.763	9.759	9.765	VV	423	1529	0.01%	0.001%
149	9.782	9.765	9.812	VV	736	14071	0.13%	0.007%
150	9.832	9.812	9.853	VV	707	12432	0.12%	0.006%
151	9.863	9.853	9.872	VV	576	5545	0.05%	0.003%
152	9.888	9.872	9.894	VV	682	6559	0.06%	0.003%
153	9.907	9.894	9.921	VV	805	9471	0.09%	0.005%
154	9.938	9.921	9.970	VV	947	19163	0.18%	0.009%
155	9.974	9.970	9.983	VV	685	3969	0.04%	0.002%
156	10.023	9.983	10.035	VV	2232	36489	0.35%	0.018%
157	10.047	10.035	10.052	VV	2180	20468	0.20%	0.010%
158	10.083	10.052	10.110	VV	2656	72313	0.69%	0.035%
159	10.139	10.110	10.152	VV	3896	72260	0.69%	0.035%
160	10.183	10.152	10.195	VV	5106	115933	1.11%	0.056%
161	10.203	10.195	10.265	VV	5348	111115	1.06%	0.054%
162	10.289	10.265	10.326	VV	5641	96873	0.92%	0.047%
163	10.330	10.326	10.355	VV	1612	19875	0.19%	0.010%
164	10.379	10.355	10.398	VV	1440	25456	0.24%	0.012%
165	10.407	10.398	10.412	VV	460	3659	0.03%	0.002%
166	10.445	10.412	10.450	VV	6746	62444	0.60%	0.030%
167	10.482	10.450	10.524	VV	949052	10228770	97.50%	4.930%
168	10.559	10.524	10.614	VV	904484	10254200	97.75%	4.942%
169	10.634	10.614	10.697	VV	4417	139797	1.33%	0.067%
170	10.703	10.697	10.721	VV	1255	15774	0.15%	0.008%
171	10.755	10.721	10.770	VV	1646	35215	0.34%	0.017%
172	10.802	10.770	10.850	VV	3316	76558	0.73%	0.037%
173	10.855	10.850	10.862	VV	741	5050	0.05%	0.002%
174	10.911	10.862	10.928	VV	4094	98886	0.94%	0.048%
175	10.952	10.928	10.986	VV	76320	866050	8.26%	0.417%
176	11.020	10.986	11.059	VV	3050	69060	0.66%	0.033%
177	11.068	11.059	11.085	VV	580	7512	0.07%	0.004%
178	11.096	11.085	11.123	VV	520	7527	0.07%	0.004%
179	11.139	11.123	11.159	PV	438	6344	0.06%	0.003%
180	11.251	11.172	11.310	VV	706139	7530784	71.79%	3.630%
181	11.331	11.310	11.342	VV	1666	24836	0.24%	0.012%
182	11.364	11.342	11.383	VV	2632	44803	0.43%	0.022%
183	11.418	11.383	11.446	VV	2011	52951	0.50%	0.026%
184	11.466	11.446	11.488	VV	1531	25397	0.24%	0.012%
185	11.496	11.488	11.537	VV	991	16185	0.15%	0.008%
186	11.544	11.537	11.549	VV	468	2752	0.03%	0.001%
187	11.599	11.549	11.648	VV	7474	136136	1.30%	0.066%
188	11.671	11.648	11.691	VV	6192	80794	0.77%	0.039%
189	11.698	11.691	11.699	VV	1551	7220	0.07%	0.003%
190	11.704	11.699	11.732	VV	1723	21768	0.21%	0.010%
191	11.771	11.732	11.795	VV	1358	35000	0.33%	0.017%
192	11.835	11.795	11.844	VV	1598	32405	0.31%	0.016%
193	11.867	11.844	11.932	VV	27773	376206	3.59%	0.181%
194	11.947	11.932	11.964	VV	1633	24832	0.24%	0.012%

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					rteres			
195	11.972	11.964	12.003	VV	1302	23074	0.22%	0.011%
196	12.026	12.003	12.056	VV	1267	28779		
197	12.083	12.056	12.102	VV	1145	23947		
198	12.120	12.102	12.150	VV	3255	44598		
199	12.155	12.150	12.171	VV	548	5478		
200	12.194	12.171	12.199	VV	1239	14235		
201	12.216	12.199	12.229	VV	5308	55867	0.53%	0.027%
202	12.255	12.229	12.260	VV	77809	737427	7.03%	0.355%
203	12.288	12.260	12.355	VV	881161	10490734	100.00%	5.056%
204	12.381	12.355	12.443	VV	2547	58116	0.55%	0.028%
205	12.467	12.443	12.493	VV	6318	77307	0.74%	0.037%
206	12.500	12.493	12.540	VV	1048	16513	0.16%	0.008%
207	12.582	12.540	12.620	VV	877382	10248363	97.69%	4.940%
208	12.639	12.620	12.663	VV	8697	132677	1.26%	0.064%
209	12.690	12.663	12.720	VV	97174	1123222	10.71%	0.541%
210	12.729	12.720	12.742	VV	1202	13977	0.13%	0.007%
211	12.773	12.742	12.816	VV	3361	68875	0.66%	0.033%
212	12.822	12.816	12.829	VV	830	5444	0.05%	0.003%
213	12.862	12.829	12.900	VV	73787	916597	8.74%	0.442%
214	12.915	12.900	12.966	VV	4082	86086	0.82%	0.041%
215	12.970	12.966	12.990	VV	953	12421	0.12%	0.006%
216	12.994	12.990	13.015	VV	760	9463	0.09%	0.005%
217	13.090	13.015	13.164	VV	15007	243786	2.32%	0.118%
218	13.171	13.164	13.190	VV	719	9987	0.10%	0.005%
219	13.202	13.190	13.208	VV	753	7674	0.07%	0.004%
220	13.213	13.208	13.224	VV	726	6377	0.06%	0.003%
221	13.231	13.224	13.247	VV	816	9908	0.09%	0.005%
222	13.266	13.247	13.278	VV	1350	19098	0.18%	0.009%
223	13.282	13.278	13.295	VV	1114	10429	0.10%	0.005%
224	13.316	13.295	13.345	VV	1906	35062	0.33%	0.017%
225	13.353	13.345	13.370	VV	922	11458	0.11%	0.006%
226	13.398	13.370	13.416	VV	3245	46327	0.44%	0.022%
227	13.444	13.416	13.499	VV	73733	874708	8.34%	0.422%
228	13.505	13.499	13.519	VV	445	3960	0.04%	0.002%
229	13.540	13.519	13.581	VV	626	12402	0.12%	0.006%
230	13.594	13.581	13.614	VV	201	2069	0.02%	0.001%
231	13.639	13.627	13.646	VV	284	2376	0.02%	0.001%
232	13.702	13.646	13.733	VV	564	17230	0.16%	0.008%
233	13.743	13.733	13.760	VV	309	2849	0.03%	0.001%
234	13.767	13.760	13.772	VV	267	1479	0.01%	0.001%
235	13.802	13.772	13.817	VV	925	15632	0.15%	0.008%
236	13.834	13.817	13.862	VV	1187	25343	0.24%	0.012%
237	13.877	13.862	13.914	VV	1676	32073	0.31%	0.015%
238	13.926	13.914	13.941	VV	466	4760	0.05%	0.002%
239	13.953	13.941	13.967	VV	409	3718	0.04%	0.002%
240	13.971	13.967	13.979	VV	318	1778	0.02%	0.001%
241	14.002	13.979	14.030	VV	1261	20468	0.20%	0.010%
242	14.034	14.030	14.052	VV	377	3919	0.04%	0.002%
243	14.066	14.052	14.111	VV	981	18626	0.18%	0.009%
244	14.125	14.111	14.147	VV	516	7335	0.07%	0.004%
245	14.172	14.147	14.199	VV	1348	22267	0.21%	0.011%
246	14.214	14.199	14.235	VV	505	8088	0.08%	0.004%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

247	14.241	14.235	14.252	VV	456	3915	0.04%	0.002%
248	14.258	14.252	14.274	VV	368	3586		
249	14.284	14.274	14.294	VV	332	3031		
250	14.313	14.294	14.320	VV	462	5784		
251	14.326	14.320	14.335	VV	411	2324		
252	14.345	14.335	14.363	VV	590	6119		
253	14.381	14.363	14.404	VV	816	12402	0.12%	0.006%
254	14.452	14.404	14.469	VV	723073	9677506	92.25%	4.664%
255	14.496	14.469	14.520	VV	799606	9543731	90.97%	4.600%
256	14.540	14.520	14.637	VV	70960	972858	9.27%	0.469%
257	14.648	14.637	14.652	VV	929	7347	0.07%	0.004%
258	14.655	14.652	14.677	VV	773	8260	0.08%	0.004%
259	14.686	14.677	14.699	VV	599	6543	0.06%	0.003%
260	14.716	14.699	14.756	VV	874	19824	0.19%	0.010%
261	14.782	14.756	14.813	VV	518	10958	0.10%	0.005%
262	14.837	14.813	14.844	VV	384	4370	0.04%	0.002%
263	14.873	14.844	14.893	VV	3461	44989	0.43%	0.022%
264	14.918	14.893	15.035	VV	10267	252802	2.41%	0.122%
265	15.067	15.035	15.091	VV	3985	64832	0.62%	0.031%
266	15.107	15.091	15.130	VV	502	7793	0.07%	0.004%
267	15.136	15.130	15.159	VV	245	2748	0.03%	0.001%
268	15.164	15.159	15.181	VV	609	4830	0.05%	0.002%
269	15.191	15.181	15.209	VV	664	7923	0.08%	0.004%
270	15.215	15.209	15.224	VV	552	4187	0.04%	0.002%
271	15.228	15.224	15.239	VV	488	3768	0.04%	0.002%
272	15.257	15.239	15.292	VV	903	16110	0.15%	0.008%
273	15.301	15.292	15.309	VV	448	3539	0.03%	0.002%
274	15.313	15.309	15.333	VV	421	3987	0.04%	0.002%
275	15.381	15.333	15.405	VV	1057	23584	0.22%	0.011%
276	15.427	15.405	15.431	VV	596	7654	0.07%	0.004%
277	15.437	15.431	15.450	VV	690	7151	0.07%	0.003%
278	15.451	15.450	15.466	VV	662	4547	0.04%	0.002%
279	15.481	15.466	15.500	VV	578	7695	0.07%	0.004%
280	15.559	15.500	15.594	VV	63222	817695	7.79%	0.394%
281	15.606	15.594	15.610	VV	488	4005	0.04%	0.002%
282	15.620	15.610	15.665	VV	515	8275	0.08%	0.004%
283	15.711	15.677	15.745	VV	1025	18422	0.18%	0.009%
284	15.760	15.753	15.780	VV	280	3357	0.03%	0.002%
285	15.796	15.790	15.802	VV	307	1311	0.01%	0.001%
286	15.822	15.802	15.828	PV	237	2414	0.02%	0.001%
287	15.837	15.828	15.850	VV	298	2318	0.02%	0.001%
288	15.859	15.850	15.895	VV	258	5315	0.05%	0.003%
289	15.933	15.895	15.955	VV	1537	31478	0.30%	0.015%
290	16.000	15.955	16.015	VV	626292	9192845	87.63%	4.431%
291	16.036	16.015	16.092	VV	784162	9199319	87.69%	4.434%
292	16.111	16.092	16.146	VV	5080	82759	0.79%	0.040%
293	16.167	16.146	16.207	VV	1988	41315	0.39%	0.020%
294	16.214	16.207	16.232	VV	692	9803	0.09%	0.005%
295	16.253	16.232	16.283	VV	1815	31541	0.30%	0.015%
296	16.286	16.283	16.314	VV	637	8322	0.08%	0.004%
297	16.378	16.314	16.445	VV	679661	8696987	82.90%	4.192%
298	16.501	16.445	16.527	VV	60893	895067	8.53%	0.431%
299	16.543	16.527	16.568	VV	6377	86402	0.82%	0.042%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

300	16.573	16.568	16.604	VV	981	13997	0.13%	0.007%
301	16.632	16.604	16.639	VV	500	8766		
302	16.643	16.639	16.653	VV	514	3205		
303	16.660	16.653	16.685	VV	539	7207		
304	16.690	16.685	16.699	VV	548	3708		
305	16.702	16.699	16.728	VV	464	4871		
306	16.737	16.728	16.762	PV	273	2630	0.03%	0.001%
307	16.789	16.762	16.810	VV	1166	19818	0.19%	0.010%
308	16.815	16.810	16.839	VV	640	7426	0.07%	0.004%
309	16.870	16.839	16.895	VV	1407	28866	0.28%	0.014%
310	16.900	16.895	16.921	VV	674	8688	0.08%	0.004%
311	16.949	16.921	16.999	VV	2721	47100	0.45%	0.023%
312	17.003	16.999	17.009	VV	447	1402	0.01%	0.001%
313	17.031	17.009	17.039	VV	384	4517	0.04%	0.002%
314	17.068	17.039	17.114	VV	2132	38546	0.37%	0.019%
315	17.135	17.114	17.142	VV	490	5298	0.05%	0.003%
316	17.167	17.142	17.179	VV	577	9060	0.09%	0.004%
317	17.188	17.179	17.212	VV	474	6333	0.06%	0.003%
318	17.238	17.212	17.257	VV	725	14458	0.14%	0.007%
319	17.275	17.257	17.296	VV	1113	17439	0.17%	0.008%
320	17.303	17.296	17.321	VV	515	5958	0.06%	0.003%
321	17.334	17.321	17.341	VV	658	6076	0.06%	0.003%
322	17.387	17.341	17.448	VV	57183	768793	7.33%	0.371%
323	17.472	17.448	17.499	VV	1567	25283	0.24%	0.012%
324	17.505	17.499	17.517	VV	406	3331	0.03%	0.002%
325	17.526	17.517	17.546	VV	408	4244	0.04%	0.002%
326	17.569	17.546	17.610	VV	400	7396	0.07%	0.004%
327	17.617	17.610	17.632	VV	165	1103	0.01%	0.001%
328	17.680	17.645	17.700	PV	2906	45865	0.44%	0.022%
329	17.745	17.700	17.758	VV	588678	8606054	82.03%	4.148%
330	17.782	17.758	17.948	VV	620410	8235840	78.51%	3.970%
331	17.998	17.948	18.135	VV	542751	8240990	78.55%	3.972%
332	18.162	18.135	18.167	PV	100	1473	0.01%	0.001%

Sum of corrected areas: 207471975

Aromatic EPH 111424.M Tue Nov 19 06:20:54 2024

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

Report of Analysis

Client:			Date Collected:
Project:			Date Received:
Client Sample ID:			SDG No.:
Lab Sample ID:			Matrix:
Analytical Method:	NJEPH		
Sample Wt/Vol:		Units:	Final Vol:
Soil Aliquot Vol:		uL	Test:
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL

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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-4-TPH-6MS			SDG No.:	P4839
Lab Sample ID:	P4839-22MS			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.5
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/18/24 23:41	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.95		1	0.42	1.12	mg/kg	FC067811.D
Aliphatic C12-C16	Aliphatic C12-C16	7.89		1	0.27	0.74	mg/kg	FC067811.D
Aliphatic C16-C21	Aliphatic C16-C21	10.9		1	0.34	1.12	mg/kg	FC067811.D
Aliphatic C21-C28	Aliphatic C21-C28	14.1		1	0.89	1.49	mg/kg	FC067811.D
Aliphatic C28-C40	Aliphatic C28-C40	26.5		1	2.01	2.23	mg/kg	FC067811.D
Aromatic C10-C12	Aromatic C10-C12	6.32		1	0.34	0.74	mg/kg	FD048770.D
Aromatic C12-C16	Aromatic C12-C16	14.1		1	0.38	1.12	mg/kg	FD048770.D
Aromatic C16-C21	Aromatic C16-C21	23.4		1	1.07	1.86	mg/kg	FD048770.D
Aromatic C21-C36	Aromatic C21-C36	37.8		1	2.23	2.98	mg/kg	FD048770.D
Total AliphaticEPH	Total AliphaticEPH	67.3			3.93	6.70	mg/kg	
Total AromaticEPH	Total AromaticEPH	81.6			4.01	6.70	mg/kg	
Total EPH	Total EPH	149			7.95	13.4	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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	EX-4-TPH-6MS		SDG No.:	P4839	
Lab Sample ID:	P4839-22MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.5	
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
FC067811.D	1	11/16/24	11/18/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.95		0.42	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.89		0.27	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.9		0.34	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	14.1		0.89	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.5		2.01	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.8		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:	P4839-22MS	Acq On:	18 Nov 2024 23:41
Client Sample ID:	P4839-22MS	Operator:	YP/AJ
Data file:	FC067811.D	Misc:	
Instrument:	FID_C	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	17702305	106.775	300	ug/ml
Aliphatic C12-C16	6.449	9.838	18056102	105.973	200	ug/ml
Aliphatic C16-C21	9.839	13.196	24915252	146.887	300	ug/ml
Aliphatic C21-C28	13.197	16.850	29761226	189.224	400	ug/ml
Aliphatic C28-C40	16.851	21.691	43058796	355.531	600	ug/ml
Aliphatic EPH	3.172	21.691	133493681	904.39		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	5629921	38.78		ug/ml
Aliphatic C9-C28	3.172	16.850	90434885	548.859	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MS

Integration File: sample.E
Quant Time: Nov 19 04:55:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.931	5629921	38.784 ug/ml
Spiked Amount	50.000		Recovery =	77.57%
	Target Compounds			
1) T	n-Nonane (C9)	3.272	4139513	25.378 ug/ml
2) T	n-Decane (C10)	4.335	5285048	31.870 ug/ml
4) T	n-Dodecane (C12)	6.350	6389245	37.935 ug/ml
6) T	n-Tetradecane (C14)	8.142	7165044	42.784 ug/ml
7) T	n-Hexadecane (C16)	9.742	7795696	44.985 ug/ml
8) T	n-Octadecane (C18)	11.182	8085825	45.958 ug/ml
10) T	n-Eicosane (C20)	12.490	8034177	47.713 ug/ml
11) T	n-Heneicosane (C21)	13.101	7633285	46.392 ug/ml
13) T	n-Docosane (C22)	13.686	7496051	46.030 ug/ml
14) T	n-Tetracosane (C24)	14.787	7291067	45.461 ug/ml
15) T	n-Hexacosane (C26)	15.806	7014548	45.296 ug/ml
16) T	n-Octacosane (C28)	16.755	6783961	44.920 ug/ml
17) T	n-Tricontane (C30)	17.640	6603722	43.131 ug/ml
18) T	n-Dotriacontane (C32)	18.471	6402790	43.352 ug/ml
19) T	n-Tetratriacontane (C34)	19.254	6267851	49.694 ug/ml
20) T	n-Hexatriacontane (C36)	19.992	6058033	57.923 ug/ml
21) T	n-Octatriacontane (C38)	20.715	5995462	61.376 ug/ml
22) T	n-Tetracontane (C40)	21.598	6045971	62.031 ug/ml

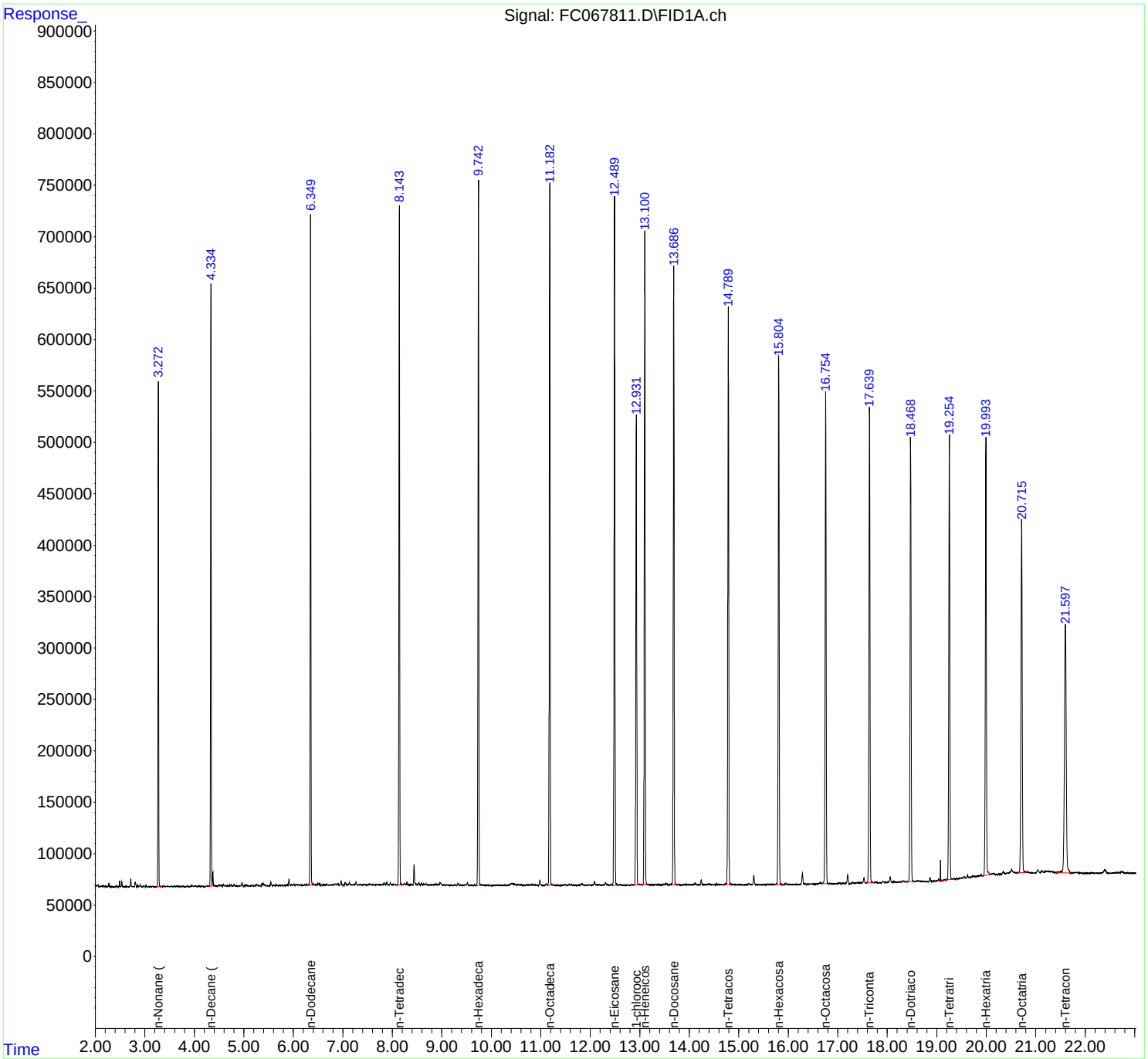
(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Operator : YP/AJ
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MS

Integration File: sample.E
Quant Time: Nov 19 04:55:47 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
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\FC111824AL\
Data File : FC067811.D
Signal(s) : FID1A.ch
Acq On : 18 Nov 2024 23:41
Sample : P4839-22MS
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.272	3.224	3.354	BV	486444	4145137	51.06%	2.975%
2	3.369	3.354	3.380	VV	203	2717	0.03%	0.002%
3	3.395	3.380	3.431	VV	566	9675	0.12%	0.007%
4	3.449	3.431	3.459	VV	458	4915	0.06%	0.004%
5	3.471	3.459	3.496	VV	469	5891	0.07%	0.004%
6	3.547	3.496	3.568	VV	717	13883	0.17%	0.010%
7	3.596	3.568	3.620	VV	656	11558	0.14%	0.008%
8	3.643	3.620	3.662	VV	601	9077	0.11%	0.007%
9	3.670	3.662	3.691	VV	484	5747	0.07%	0.004%
10	3.710	3.691	3.725	VV	471	7375	0.09%	0.005%
11	3.734	3.725	3.747	VV	325	2822	0.03%	0.002%
12	3.762	3.747	3.796	VV	580	8583	0.11%	0.006%
13	3.807	3.796	3.827	PV	226	2099	0.03%	0.002%
14	3.855	3.827	3.898	VV	488	12140	0.15%	0.009%
15	3.936	3.898	3.950	VV	1205	14976	0.18%	0.011%
16	3.964	3.950	3.984	VV	1387	14843	0.18%	0.011%
17	3.997	3.984	4.013	VV	559	7317	0.09%	0.005%
18	4.030	4.013	4.050	VV	913	11241	0.14%	0.008%
19	4.110	4.050	4.125	VV	983	22978	0.28%	0.016%
20	4.138	4.125	4.164	VV	526	9525	0.12%	0.007%
21	4.173	4.164	4.206	VV	410	6848	0.08%	0.005%
22	4.248	4.206	4.268	PV	807	13160	0.16%	0.009%
23	4.287	4.268	4.303	VV	621	10149	0.13%	0.007%
24	4.335	4.303	4.359	VV	583296	5295134	65.23%	3.801%
25	4.374	4.359	4.424	VV	13799	151965	1.87%	0.109%
26	4.435	4.424	4.465	VV	844	17250	0.21%	0.012%
27	4.501	4.465	4.516	VV	1705	32262	0.40%	0.023%
28	4.529	4.516	4.543	VV	1535	19486	0.24%	0.014%
29	4.556	4.543	4.570	VV	1611	18830	0.23%	0.014%
30	4.586	4.570	4.603	VV	2275	26507	0.33%	0.019%
31	4.615	4.603	4.628	VV	1093	13415	0.17%	0.010%
32	4.639	4.628	4.650	VV	944	11208	0.14%	0.008%
33	4.660	4.650	4.686	VV	996	17388	0.21%	0.012%
34	4.705	4.686	4.723	VV	1525	23202	0.29%	0.017%
35	4.741	4.723	4.781	VV	1424	31295	0.39%	0.022%
36	4.802	4.781	4.834	VV	2588	37494	0.46%	0.027%

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37	4.852	4.834	4.874	VV	821	15603	0.19%	0.011%
38	4.888	4.874	4.904	VV	900	11853	0.15%	0.009%
39	4.964	4.904	4.996	VV	3856	76221	0.94%	0.055%
40	5.020	4.996	5.034	VV	1842	23945	0.29%	0.017%
41	5.048	5.034	5.062	VV	1690	20544	0.25%	0.015%
42	5.073	5.062	5.110	VV	1181	25210	0.31%	0.018%
43	5.134	5.110	5.151	VV	822	17164	0.21%	0.012%
44	5.165	5.151	5.176	VV	981	13571	0.17%	0.010%
45	5.188	5.176	5.214	VV	1024	19591	0.24%	0.014%
46	5.228	5.214	5.241	VV	984	13465	0.17%	0.010%
47	5.256	5.241	5.272	VV	2310	28597	0.35%	0.021%
48	5.284	5.272	5.324	VV	1321	31061	0.38%	0.022%
49	5.368	5.324	5.378	VV	3245	50908	0.63%	0.037%
50	5.388	5.378	5.472	VV	3177	86578	1.07%	0.062%
51	5.489	5.472	5.508	VV	1076	18172	0.22%	0.013%
52	5.546	5.508	5.575	VV	4355	70508	0.87%	0.051%
53	5.599	5.575	5.634	VV	1063	33668	0.41%	0.024%
54	5.655	5.634	5.691	VV	1412	36968	0.46%	0.027%
55	5.714	5.691	5.724	VV	1280	19432	0.24%	0.014%
56	5.735	5.724	5.744	VV	1102	11810	0.15%	0.008%
57	5.772	5.744	5.801	VV	1454	37035	0.46%	0.027%
58	5.821	5.801	5.841	VV	1410	23742	0.29%	0.017%
59	5.876	5.841	5.891	VV	1984	41688	0.51%	0.030%
60	5.912	5.891	5.948	VV	6943	97099	1.20%	0.070%
61	5.962	5.948	5.988	VV	1649	31216	0.38%	0.022%
62	6.009	5.988	6.034	VV	2647	47561	0.59%	0.034%
63	6.065	6.034	6.078	VV	1810	39765	0.49%	0.029%
64	6.092	6.078	6.118	VV	1699	35102	0.43%	0.025%
65	6.153	6.118	6.177	VV	1853	50650	0.62%	0.036%
66	6.187	6.177	6.205	VV	1257	19297	0.24%	0.014%
67	6.227	6.205	6.251	VV	1726	38156	0.47%	0.027%
68	6.272	6.251	6.289	VV	1849	34704	0.43%	0.025%
69	6.300	6.289	6.315	VV	1720	24313	0.30%	0.017%
70	6.350	6.315	6.419	VV	651501	6474388	79.76%	4.647%
71	6.434	6.419	6.451	VV	2094	34628	0.43%	0.025%
72	6.496	6.451	6.518	VV	3010	79524	0.98%	0.057%
73	6.534	6.518	6.555	VV	2793	45107	0.56%	0.032%
74	6.569	6.555	6.593	VV	1659	29762	0.37%	0.021%
75	6.611	6.593	6.641	VV	1638	41606	0.51%	0.030%
76	6.675	6.641	6.695	VV	1948	49368	0.61%	0.035%
77	6.732	6.695	6.764	VV	1681	56561	0.70%	0.041%
78	6.803	6.764	6.821	VV	1877	51150	0.63%	0.037%
79	6.841	6.821	6.855	VV	2456	38058	0.47%	0.027%
80	6.867	6.855	6.882	VV	2246	31924	0.39%	0.023%
81	6.903	6.882	6.932	VV	2349	53276	0.66%	0.038%
82	6.966	6.932	7.028	VV	5041	117856	1.45%	0.085%
83	7.048	7.028	7.087	VV	3815	80199	0.99%	0.058%
84	7.101	7.087	7.111	VV	1655	22029	0.27%	0.016%
85	7.130	7.111	7.164	VV	3384	67563	0.83%	0.048%
86	7.175	7.164	7.203	VV	1528	33602	0.41%	0.024%
87	7.235	7.203	7.246	VV	1969	41543	0.51%	0.030%
88	7.269	7.246	7.294	VV	3966	68067	0.84%	0.049%
89	7.338	7.294	7.345	VV	1497	42658	0.53%	0.031%

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90	7.357	7.345	7.381	VV	1697	30444	0.38%	0.022%
91	7.440	7.381	7.469	VV	1699	73093	0.90%	0.052%
92	7.491	7.469	7.510	VV	1314	28744	0.35%	0.021%
93	7.531	7.510	7.544	VV	2209	35581	0.44%	0.026%
94	7.555	7.544	7.571	VV	1910	27829	0.34%	0.020%
95	7.584	7.571	7.595	VV	1588	21796	0.27%	0.016%
96	7.605	7.595	7.625	VV	1551	26369	0.32%	0.019%
97	7.645	7.625	7.661	VV	1451	28588	0.35%	0.021%
98	7.696	7.661	7.730	VV	2077	63201	0.78%	0.045%
99	7.746	7.730	7.766	VV	1513	29401	0.36%	0.021%
100	7.791	7.766	7.806	VV	1488	30962	0.38%	0.022%
101	7.836	7.806	7.857	VV	3293	61636	0.76%	0.044%
102	7.890	7.857	7.917	VV	3481	74325	0.92%	0.053%
103	7.961	7.917	7.996	VV	3077	82754	1.02%	0.059%
104	8.016	7.996	8.030	VV	1724	30526	0.38%	0.022%
105	8.046	8.030	8.075	VV	1921	39498	0.49%	0.028%
106	8.083	8.075	8.092	VV	1197	12283	0.15%	0.009%
107	8.098	8.092	8.108	VV	1234	10957	0.13%	0.008%
108	8.142	8.108	8.208	VV	667227	7237128	89.15%	5.195%
109	8.243	8.208	8.271	VV	2660	70941	0.87%	0.051%
110	8.295	8.271	8.358	VV	3987	98249	1.21%	0.071%
111	8.380	8.358	8.409	VV	1470	38662	0.48%	0.028%
112	8.441	8.409	8.504	VV	20904	290615	3.58%	0.209%
113	8.536	8.504	8.570	VV	3426	74467	0.92%	0.053%
114	8.592	8.570	8.614	VV	2704	47710	0.59%	0.034%
115	8.629	8.614	8.641	VV	1619	22367	0.28%	0.016%
116	8.675	8.641	8.715	VV	2731	74271	0.91%	0.053%
117	8.742	8.715	8.772	VV	1220	34793	0.43%	0.025%
118	8.794	8.772	8.811	VV	1307	25054	0.31%	0.018%
119	8.823	8.811	8.837	VV	1222	17700	0.22%	0.013%
120	8.858	8.837	8.875	VV	2003	34722	0.43%	0.025%
121	8.896	8.875	8.940	VV	1719	55484	0.68%	0.040%
122	8.973	8.940	9.028	VV	2906	92119	1.13%	0.066%
123	9.046	9.028	9.071	VV	1358	27100	0.33%	0.019%
124	9.095	9.071	9.129	VV	1104	29721	0.37%	0.021%
125	9.138	9.129	9.164	VV	777	14199	0.17%	0.010%
126	9.199	9.164	9.228	VV	701	22146	0.27%	0.016%
127	9.261	9.228	9.298	VV	1190	29885	0.37%	0.021%
128	9.326	9.298	9.361	VV	2449	50013	0.62%	0.036%
129	9.379	9.361	9.394	VV	1206	17409	0.21%	0.012%
130	9.416	9.394	9.448	VV	830	21364	0.26%	0.015%
131	9.473	9.448	9.491	VV	1290	25179	0.31%	0.018%
132	9.517	9.491	9.557	VV	2938	48401	0.60%	0.035%
133	9.577	9.557	9.641	VV	671	24098	0.30%	0.017%
134	9.657	9.641	9.699	VV	1040	23690	0.29%	0.017%
135	9.741	9.699	9.799	VV	685766	7823851	96.38%	5.616%
136	9.808	9.799	9.868	VV	878	26924	0.33%	0.019%
137	9.881	9.868	9.940	VV	662	18735	0.23%	0.013%
138	9.962	9.940	9.992	VV	694	11688	0.14%	0.008%
139	10.015	9.992	10.031	VV	398	6944	0.09%	0.005%
140	10.057	10.031	10.071	VV	522	9839	0.12%	0.007%
141	10.087	10.071	10.098	VV	456	6455	0.08%	0.005%

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142	10.128	10.098	10.151	VV	819	18258	0.22%	0.013%
143	10.171	10.151	10.191	VV	602	12566	0.15%	0.009%
144	10.208	10.191	10.234	VV	522	11636	0.14%	0.008%
145	10.260	10.234	10.307	VV	640	22013	0.27%	0.016%
146	10.341	10.307	10.350	VV	745	14876	0.18%	0.011%
147	10.412	10.350	10.459	VV	2165	99996	1.23%	0.072%
148	10.474	10.459	10.510	VV	1442	32695	0.40%	0.023%
149	10.554	10.510	10.579	VV	1186	37785	0.47%	0.027%
150	10.602	10.579	10.641	VV	1180	24287	0.30%	0.017%
151	10.650	10.641	10.663	VV	370	4186	0.05%	0.003%
152	10.724	10.663	10.774	VV	1039	37194	0.46%	0.027%
153	10.799	10.774	10.821	VV	1274	22993	0.28%	0.017%
154	10.846	10.821	10.879	VV	1608	30635	0.38%	0.022%
155	10.895	10.879	10.917	VV	704	12625	0.16%	0.009%
156	10.928	10.917	10.956	VV	465	8420	0.10%	0.006%
157	10.982	10.956	11.025	VV	5256	71429	0.88%	0.051%
158	11.034	11.025	11.064	VV	239	4270	0.05%	0.003%
159	11.107	11.064	11.134	VV	1908	32015	0.39%	0.023%
160	11.182	11.134	11.264	VV	670975	8117595	100.00%	5.827%
161	11.270	11.264	11.348	VV	700	14397	0.18%	0.010%
162	11.358	11.348	11.388	VV	135	2328	0.03%	0.002%
163	11.410	11.388	11.428	VV	231	3209	0.04%	0.002%
164	11.461	11.428	11.472	VV	809	12922	0.16%	0.009%
165	11.488	11.472	11.514	VV	1160	17602	0.22%	0.013%
166	11.531	11.514	11.544	VV	421	5884	0.07%	0.004%
167	11.582	11.544	11.608	VV	1325	28452	0.35%	0.020%
168	11.630	11.608	11.713	VV	774	23384	0.29%	0.017%
169	11.724	11.713	11.731	VV	244	1989	0.02%	0.001%
170	11.741	11.731	11.754	VV	283	3457	0.04%	0.002%
171	11.775	11.754	11.797	VV	528	9784	0.12%	0.007%
172	11.828	11.797	11.880	VV	1620	43877	0.54%	0.031%
173	11.888	11.880	11.911	VV	458	6271	0.08%	0.005%
174	11.934	11.911	11.958	VV	511	10105	0.12%	0.007%
175	11.976	11.958	12.024	VV	750	17320	0.21%	0.012%
176	12.084	12.024	12.111	VV	3901	65999	0.81%	0.047%
177	12.122	12.111	12.153	VV	917	18052	0.22%	0.013%
178	12.179	12.153	12.234	VV	821	22652	0.28%	0.016%
179	12.310	12.234	12.333	VV	2877	58349	0.72%	0.042%
180	12.347	12.333	12.384	VV	1116	16803	0.21%	0.012%
181	12.425	12.384	12.447	VV	1170	20821	0.26%	0.015%
182	12.490	12.447	12.574	VV	677922	8045669	99.11%	5.775%
183	12.605	12.574	12.642	VV	1014	19331	0.24%	0.014%
184	12.653	12.642	12.678	VV	139	1656	0.02%	0.001%
185	12.685	12.678	12.692	VV	96	638	0.01%	0.000%
186	12.751	12.692	12.801	VV	351	13599	0.17%	0.010%
187	12.834	12.801	12.868	VV	1176	21329	0.26%	0.015%
188	12.931	12.868	12.971	VV	454035	5653231	69.64%	4.058%
189	12.986	12.971	13.018	VV	1130	23995	0.30%	0.017%
190	13.038	13.018	13.061	VV	787	14149	0.17%	0.010%
191	13.101	13.061	13.255	VV	625661	7702094	94.88%	5.529%
192	13.295	13.255	13.331	VV	597	19231	0.24%	0.014%
193	13.383	13.331	13.411	VV	598	22195	0.27%	0.016%
194	13.482	13.411	13.508	VV	888	31919	0.39%	0.023%

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195	13.527	13.508	13.597	VV	1799	43778	0.54%	0.031%
196	13.629	13.597	13.645	VV	1253	19933	0.25%	0.014%
197	13.686	13.645	13.761	VV	601805	7523928	92.69%	5.401%
198	13.767	13.761	13.836	VV	611	15825	0.19%	0.011%
199	13.841	13.836	13.850	VV	259	1605	0.02%	0.001%
200	13.920	13.850	13.993	VV	801	37468	0.46%	0.027%
201	14.022	13.993	14.054	VV	608	16361	0.20%	0.012%
202	14.070	14.054	14.089	VV	761	11530	0.14%	0.008%
203	14.116	14.089	14.174	VV	1847	41329	0.51%	0.030%
204	14.183	14.174	14.203	VV	407	6061	0.07%	0.004%
205	14.243	14.203	14.278	VV	5213	75861	0.93%	0.054%
206	14.307	14.278	14.354	VV	579	20055	0.25%	0.014%
207	14.395	14.354	14.473	VV	1151	42789	0.53%	0.031%
208	14.489	14.473	14.508	VV	429	7907	0.10%	0.006%
209	14.532	14.508	14.551	VV	456	9881	0.12%	0.007%
210	14.578	14.551	14.608	VV	732	19214	0.24%	0.014%
211	14.628	14.608	14.684	VV	492	17158	0.21%	0.012%
212	14.787	14.684	14.938	VV	557858	7350951	90.56%	5.276%
213	14.979	14.938	15.014	VV	401	13592	0.17%	0.010%
214	15.023	15.014	15.038	VV	309	3786	0.05%	0.003%
215	15.047	15.038	15.091	VV	303	6068	0.07%	0.004%
216	15.125	15.091	15.153	VV	330	7422	0.09%	0.005%
217	15.199	15.153	15.239	VV	1131	30024	0.37%	0.022%
218	15.254	15.239	15.270	VV	467	6757	0.08%	0.005%
219	15.301	15.270	15.338	VV	9411	128360	1.58%	0.092%
220	15.349	15.338	15.394	VV	308	5209	0.06%	0.004%
221	15.424	15.394	15.462	PV	236	5573	0.07%	0.004%
222	15.487	15.462	15.547	VV	317	9707	0.12%	0.007%
223	15.583	15.547	15.614	VV	635	16350	0.20%	0.012%
224	15.622	15.614	15.641	VV	547	6630	0.08%	0.005%
225	15.672	15.641	15.724	VV	624	16828	0.21%	0.012%
226	15.806	15.724	15.911	VV	517549	7034290	86.65%	5.049%
227	15.942	15.911	15.963	VV	1004	17541	0.22%	0.013%
228	15.976	15.963	16.054	VV	561	13840	0.17%	0.010%
229	16.110	16.054	16.134	VV	422	9065	0.11%	0.007%
230	16.156	16.134	16.210	VV	278	5720	0.07%	0.004%
231	16.284	16.210	16.314	PV	11131	166696	2.05%	0.120%
232	16.328	16.314	16.384	VV	687	17092	0.21%	0.012%
233	16.427	16.384	16.498	VV	374	17640	0.22%	0.013%
234	16.504	16.498	16.527	VV	264	3244	0.04%	0.002%
235	16.584	16.527	16.607	VV	592	13961	0.17%	0.010%
236	16.641	16.607	16.674	VV	1619	36959	0.46%	0.027%
237	16.755	16.674	16.828	VV	478619	6818821	84.00%	4.895%
238	16.838	16.828	16.908	VV	493	15072	0.19%	0.011%
239	16.979	16.908	17.001	VV	438	14385	0.18%	0.010%
240	17.036	17.001	17.068	VV	1010	23362	0.29%	0.017%
241	17.093	17.068	17.141	VV	538	17477	0.22%	0.013%
242	17.151	17.141	17.158	VV	422	3572	0.04%	0.003%
243	17.200	17.158	17.251	VV	8222	123599	1.52%	0.089%
244	17.301	17.251	17.334	PV	1259	25643	0.32%	0.018%
245	17.386	17.334	17.414	VV	882	27595	0.34%	0.020%
246	17.430	17.414	17.447	VV	651	10498	0.13%	0.008%

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247	17.478	17.447	17.499	VV	954	21058	0.26%	0.015%
248	17.527	17.499	17.558	VV	5307	79609	0.98%	0.057%
249	17.640	17.558	17.734	VV	462638	6633747	81.72%	4.762%
250	17.770	17.734	17.831	VV	788	25883	0.32%	0.019%
251	17.846	17.831	17.867	VV	212	3127	0.04%	0.002%
252	17.913	17.867	17.951	VV	1547	34431	0.42%	0.025%
253	17.953	17.951	17.984	VV	563	5902	0.07%	0.004%
254	18.016	17.984	18.030	VV	882	15208	0.19%	0.011%
255	18.058	18.030	18.088	VV	5759	89958	1.11%	0.065%
256	18.105	18.088	18.117	VV	639	10680	0.13%	0.008%
257	18.135	18.117	18.177	VV	926	21812	0.27%	0.016%
258	18.190	18.177	18.224	VV	490	10176	0.13%	0.007%
259	18.318	18.224	18.353	VV	1117	46583	0.57%	0.033%
260	18.366	18.353	18.416	VV	764	20241	0.25%	0.015%
261	18.471	18.416	18.534	VV	415056	6425719	79.16%	4.612%
262	18.562	18.534	18.578	VV	708	15417	0.19%	0.011%
263	18.621	18.578	18.703	VV	1189	52799	0.65%	0.038%
264	18.722	18.703	18.757	VV	523	13182	0.16%	0.009%
265	18.769	18.757	18.798	VV	359	4970	0.06%	0.004%
266	18.864	18.798	18.924	PV	3747	62882	0.77%	0.045%
267	18.959	18.924	18.981	VV	307	5577	0.07%	0.004%
268	18.992	18.981	18.997	VV	156	988	0.01%	0.001%
269	19.037	18.997	19.084	VV	1615	49167	0.61%	0.035%
270	19.116	19.084	19.127	VV	619	12138	0.15%	0.009%
271	19.254	19.127	19.316	VV	430272	6340453	78.11%	4.551%
272	19.344	19.316	19.373	VV	1523	44839	0.55%	0.032%
273	19.405	19.373	19.423	VV	1462	39008	0.48%	0.028%
274	19.552	19.423	19.587	VV	3214	184486	2.27%	0.132%
275	19.625	19.587	19.651	VV	3874	98623	1.21%	0.071%
276	19.738	19.651	19.784	VV	3115	204558	2.52%	0.147%
277	19.890	19.784	19.924	VV	4053	254280	3.13%	0.183%
278	19.992	19.924	20.031	VV	425633	6225554	76.69%	4.469%
279	20.040	20.031	20.081	VV	6470	157456	1.94%	0.113%
280	20.134	20.081	20.231	VV	4633	359404	4.43%	0.258%
281	20.258	20.231	20.281	VV	3992	111353	1.37%	0.080%
282	20.342	20.281	20.375	VV	5924	246138	3.03%	0.177%
283	20.384	20.375	20.392	VV	4162	41273	0.51%	0.030%
284	20.511	20.392	20.569	VV	7482	539885	6.65%	0.388%
285	20.577	20.569	20.617	VV	4679	125501	1.55%	0.090%
286	20.715	20.617	20.848	VV	345124	6562319	80.84%	4.710%
287	20.864	20.848	20.891	VV	3926	97960	1.21%	0.070%
288	20.906	20.891	20.984	VV	3566	181928	2.24%	0.131%
289	21.042	20.984	21.085	VV	5505	241708	2.98%	0.173%
290	21.122	21.085	21.161	VV	4641	180225	2.22%	0.129%
291	21.238	21.161	21.394	VV	4143	495351	6.10%	0.356%
292	21.410	21.394	21.444	VV	2643	75185	0.93%	0.054%
293	21.598	21.444	21.724	VV	243209	6343924	78.15%	4.554%
294	21.822	21.724	21.971	VV	1436	152341	1.88%	0.109%
295	21.984	21.971	22.024	VV	479	9436	0.12%	0.007%
296	22.042	22.024	22.050	VV	335	3835	0.05%	0.003%
297	22.060	22.050	22.081	VV	315	3136	0.04%	0.002%

Sum of corrected areas: 139315657

Aliphatic EPH 111424.M Tue Nov 19 05:25:30 2024

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

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	EX-9-TPH-15MSD		SDG No.:	P4839	
Lab Sample ID:	P4839-07MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FD048746.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	12.2		0.36	0.81	mg/kg
Aromatic C12-C16	Aromatic C12-C16	28.4	E	0.41	1.21	mg/kg
Aromatic C16-C21	Aromatic C16-C21	31.8		1.16	2.01	mg/kg
Aromatic C21-C36	Aromatic C21-C36	42.7		2.41	3.22	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	57.3		40 - 140	115%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	55.2		40 - 140	110%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.3		40 - 140	75%	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:	P4839-07MSD	Acq On:	15 Nov 2024 15:49
Client Sample ID:	EX-9-TPH-15MSD	Operator:	YP/AJ
Data file:	FD048746.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	4.088	5.805	29010318	151.082	200	ug/ml
Aromatic C12-C16	5.806	8.411	67969959	353.166	300	ug/ml
Aromatic C16-C21	8.412	12.674	73405835	395.07	500	ug/ml
Aromatic C21-C36	12.675	18.081	83512687	531.146	800	ug/ml
Aromatic EPH	4.088	18.081	253898799	1430		ug/ml
ortho-Terphenyl (SURR)	11.254	11.254	7167506	37.27		ug/ml
2-Bromonaphthalene (SURR)	7.369	7.369	10088024	57.3		ug/ml
2-Flurobiphenyl (SURR)	8.220	8.220	6359357	55.22		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048746.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:49
Operator : YP/AJ
Sample : P4839-07MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15MSD

Integration File: sample.E
Quant Time: Nov 16 10:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.369	10088024	57.299 ug/ml
Spiked Amount	50.000		Recovery =	114.60%
6) S	2-Flurobiphenyl (SURR)	8.220	6359357	55.217 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	110.43%
11) S	ortho-Terphenyl (SURR)	11.254	7167506	37.266 ug/ml
Spiked Amount	50.000		Recovery =	74.53%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.192	7921768	42.034 ug/ml
2) T	Naphthalene (C11.7)	5.709	9955559	50.904 ug/ml
3) T	2-Methylnaphthalene (...	6.756	9910545	51.859 ug/ml
5) T	Acenaphthylene (C15.06)	8.024	11041384	56.936 ug/ml
7) T	Acenaphthene (C15.5)	8.320	11744863	61.061 ug/ml
8) T	Flouorene (C16.55)	9.098	11557539	60.242 ug/ml
9) T	Phenanthrene (C19.36)	10.486	11368030	62.018 ug/ml
10) T	Anthracene (C19.43)	10.562	11160676	59.597 ug/ml
12) T	Fluoranthene (C21.85)	12.291	11686379	63.817 ug/ml
13) T	Pyrene (C20.8)	12.585	10913882	60.367 ug/ml
14) T	Benzo[a]anthracene (C...	14.454	10319316	62.731 ug/ml
15) T	Chrysene (C27.41)	14.499	10134302	57.906 ug/ml
16) T	benzo[b]fluoranthene ...	16.003	9911385	63.082 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.040	9752505	59.759 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.380	9299920	62.375 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.747	9286425	75.176 ug/ml
20) T	Dibenz[a,h]anthracene...	17.784	8690401	55.419 ug/ml
21) T	Benzo[g,h,i]perylene ...	18.000	8775360	61.501 ug/ml

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

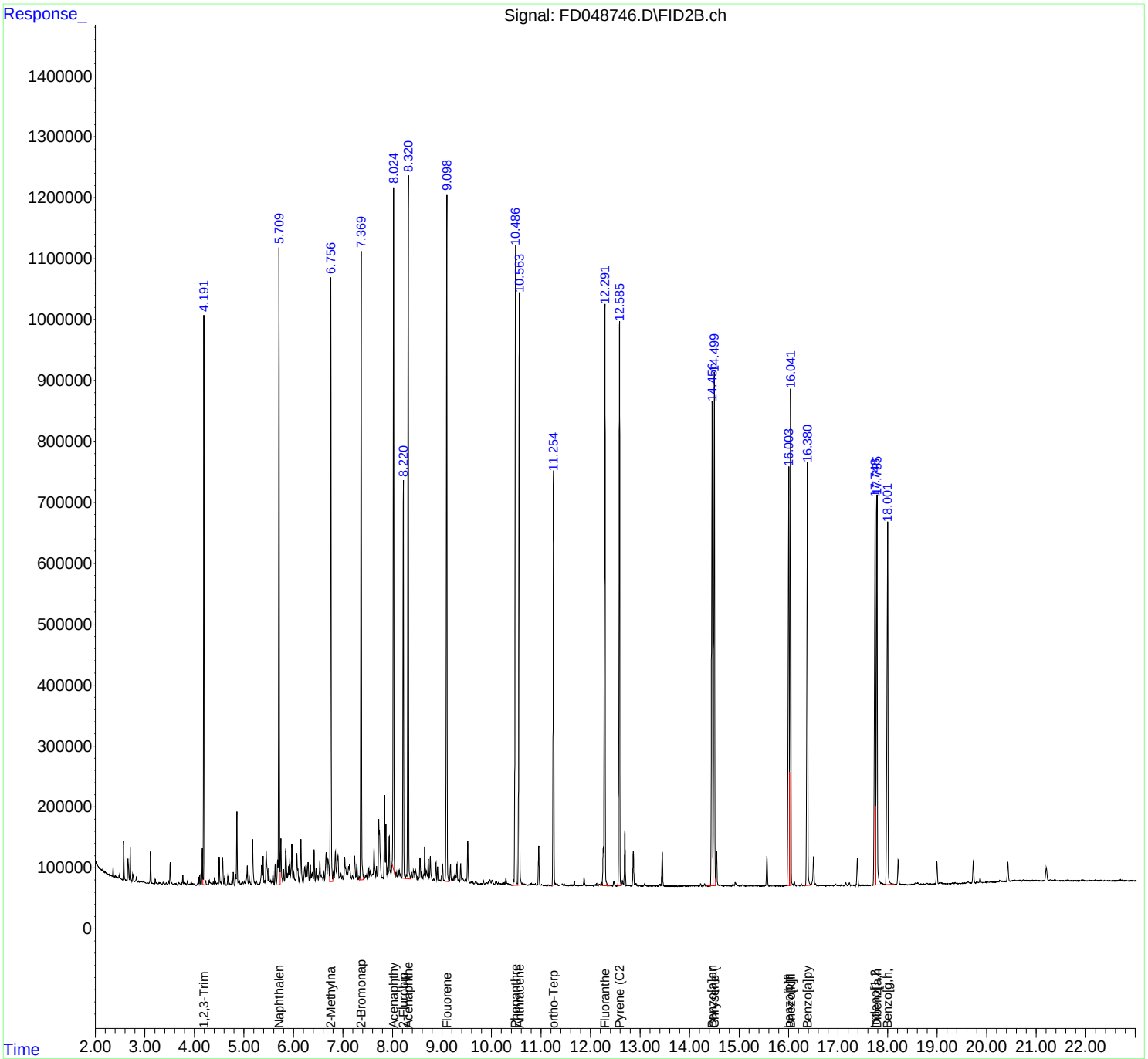
Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048746.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:49
Operator : YP/AJ
Sample : P4839-07MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-9-TPH-15MSD

Integration File: sample.E
Quant Time: Nov 16 10:12:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111524AR\
Data File : FD048746.D
Signal(s) : FID2B.ch
Acq On : 15 Nov 2024 15:49
Sample : P4839-07MSD
Misc :
ALS Vial : 67 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.082	4.042	4.096	BV	14090	154904	1.26%	0.056%
2	4.109	4.096	4.132	VV	16025	153682	1.25%	0.055%
3	4.160	4.132	4.173	VV	60611	532481	4.33%	0.191%
4	4.192	4.173	4.217	VV	935520	7939077	64.49%	2.850%
5	4.228	4.217	4.255	VV	7509	86376	0.70%	0.031%
6	4.269	4.255	4.282	VV	1494	20078	0.16%	0.007%
7	4.299	4.282	4.314	VV	8315	93451	0.76%	0.034%
8	4.324	4.314	4.338	VV	4726	56833	0.46%	0.020%
9	4.345	4.338	4.365	VV	3072	40636	0.33%	0.015%
10	4.382	4.365	4.395	VV	5614	64669	0.53%	0.023%
11	4.409	4.395	4.422	VV	12969	118051	0.96%	0.042%
12	4.431	4.422	4.448	VV	5327	59974	0.49%	0.022%
13	4.462	4.448	4.472	VV	3740	44599	0.36%	0.016%
14	4.478	4.472	4.485	VV	3486	24458	0.20%	0.009%
15	4.502	4.485	4.520	VV	46841	428461	3.48%	0.154%
16	4.528	4.520	4.543	VV	6086	63856	0.52%	0.023%
17	4.570	4.543	4.595	VV	46031	598432	4.86%	0.215%
18	4.611	4.595	4.645	VV	12812	145209	1.18%	0.052%
19	4.676	4.645	4.692	PV	14874	151143	1.23%	0.054%
20	4.702	4.692	4.720	VV	4181	47319	0.38%	0.017%
21	4.729	4.720	4.741	VV	2163	20961	0.17%	0.008%
22	4.760	4.741	4.771	VV	9258	90687	0.74%	0.033%
23	4.786	4.771	4.810	VV	21800	226555	1.84%	0.081%
24	4.834	4.810	4.843	VV	18771	164291	1.33%	0.059%
25	4.858	4.843	4.882	VV	121235	1133011	9.20%	0.407%
26	4.889	4.882	4.901	VV	5996	61636	0.50%	0.022%
27	4.912	4.901	4.928	VV	6602	66292	0.54%	0.024%
28	4.945	4.928	4.957	VV	3544	42557	0.35%	0.015%
29	4.975	4.957	4.991	VV	5514	77203	0.63%	0.028%
30	5.008	4.991	5.025	VV	6282	91761	0.75%	0.033%
31	5.046	5.025	5.055	VV	17599	195081	1.58%	0.070%
32	5.068	5.055	5.088	VV	32198	326491	2.65%	0.117%
33	5.107	5.088	5.121	VV	13288	151635	1.23%	0.054%
34	5.125	5.121	5.139	VV	5821	44417	0.36%	0.016%
35	5.148	5.139	5.155	VV	2038	16101	0.13%	0.006%
36	5.175	5.155	5.212	VV	75670	913562	7.42%	0.328%

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37	5.220	5.212	5.233	VV	5199	50076	0.41%	0.018%
38	5.248	5.233	5.285	VV	7697	130094	1.06%	0.047%
39	5.298	5.285	5.310	VV	2391	28156	0.23%	0.010%
40	5.359	5.310	5.376	VV	33136	577148	4.69%	0.207%
41	5.388	5.376	5.407	VV	48236	480551	3.90%	0.173%
42	5.420	5.407	5.433	VV	8272	104821	0.85%	0.038%
43	5.450	5.433	5.489	VV	56065	971903	7.90%	0.349%
44	5.502	5.489	5.519	VV	28975	294122	2.39%	0.106%
45	5.523	5.519	5.533	VV	7110	53722	0.44%	0.019%
46	5.543	5.533	5.555	VV	8541	88737	0.72%	0.032%
47	5.564	5.555	5.572	VV	6150	56443	0.46%	0.020%
48	5.587	5.572	5.611	VV	18527	239959	1.95%	0.086%
49	5.631	5.611	5.653	VV	35947	351830	2.86%	0.126%
50	5.682	5.653	5.689	VV	42313	467042	3.79%	0.168%
51	5.709	5.689	5.732	VV	1045214	9540641	77.50%	3.425%
52	5.747	5.732	5.785	VV	76963	985735	8.01%	0.354%
53	5.802	5.785	5.819	VV	26505	298312	2.42%	0.107%
54	5.844	5.819	5.875	VV	56903	1020058	8.29%	0.366%
55	5.886	5.875	5.892	VV	19660	180816	1.47%	0.065%
56	5.905	5.892	5.915	VV	31866	337398	2.74%	0.121%
57	5.928	5.915	5.942	VV	43902	479336	3.89%	0.172%
58	5.969	5.942	5.994	VV	67245	965635	7.84%	0.347%
59	6.009	5.994	6.041	VV	21557	366454	2.98%	0.132%
60	6.069	6.041	6.085	VV	52757	707531	5.75%	0.254%
61	6.090	6.085	6.112	VV	26902	289090	2.35%	0.104%
62	6.152	6.112	6.197	VV	75568	1241979	10.09%	0.446%
63	6.230	6.197	6.245	VV	30777	536255	4.36%	0.193%
64	6.261	6.245	6.276	VV	31479	438269	3.56%	0.157%
65	6.298	6.276	6.320	VV	38226	634471	5.15%	0.228%
66	6.342	6.320	6.359	VV	33995	481738	3.91%	0.173%
67	6.370	6.359	6.378	VV	19037	199519	1.62%	0.072%
68	6.389	6.378	6.403	VV	21433	248976	2.02%	0.089%
69	6.418	6.403	6.440	VV	58747	648629	5.27%	0.233%
70	6.458	6.440	6.476	VV	28818	368350	2.99%	0.132%
71	6.494	6.476	6.506	VV	16292	224138	1.82%	0.080%
72	6.535	6.506	6.551	VV	41423	636565	5.17%	0.229%
73	6.559	6.551	6.599	VV	17640	397613	3.23%	0.143%
74	6.616	6.599	6.631	VV	21758	285476	2.32%	0.102%
75	6.662	6.631	6.681	VV	54439	967540	7.86%	0.347%
76	6.698	6.681	6.728	VV	43368	916539	7.45%	0.329%
77	6.757	6.728	6.793	VV	997985	10158988	82.53%	3.647%
78	6.807	6.793	6.824	VV	21660	309636	2.52%	0.111%
79	6.848	6.824	6.866	VV	56177	890011	7.23%	0.320%
80	6.890	6.866	6.895	VV	47601	603979	4.91%	0.217%
81	6.902	6.895	6.922	VV	48963	530209	4.31%	0.190%
82	6.961	6.922	6.978	VV	19611	504183	4.10%	0.181%
83	6.994	6.978	7.013	VV	15470	271809	2.21%	0.098%
84	7.037	7.013	7.050	VV	47467	639287	5.19%	0.230%
85	7.055	7.050	7.084	VV	29301	470586	3.82%	0.169%
86	7.095	7.084	7.100	VV	20186	179336	1.46%	0.064%
87	7.114	7.100	7.123	VV	31855	371514	3.02%	0.133%
88	7.134	7.123	7.175	VV	34813	682361	5.54%	0.245%
89	7.191	7.175	7.214	VV	16017	321780	2.61%	0.116%

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90	7.234	7.214	7.262	VV	49101	838611	6.81%	0.301%
91	7.282	7.262	7.308	VV	36569	595965	4.84%	0.214%
92	7.326	7.308	7.341	VV	14771	245717	2.00%	0.088%
93	7.369	7.341	7.412	VV	1039311	10487862	85.20%	3.765%
94	7.424	7.412	7.447	VV	18749	332482	2.70%	0.119%
95	7.462	7.447	7.471	VV	16975	217186	1.76%	0.078%
96	7.487	7.471	7.505	VV	20300	334485	2.72%	0.120%
97	7.523	7.505	7.536	VV	28544	388263	3.15%	0.139%
98	7.550	7.536	7.570	VV	24050	397182	3.23%	0.143%
99	7.629	7.570	7.665	VV	62454	1530680	12.43%	0.550%
100	7.679	7.665	7.695	VV	31849	416406	3.38%	0.149%
101	7.700	7.695	7.704	VV	16080	84830	0.69%	0.030%
102	7.724	7.704	7.733	VV	108806	1111737	9.03%	0.399%
103	7.739	7.733	7.788	VV	91351	1446126	11.75%	0.519%
104	7.801	7.788	7.815	VV	13859	209896	1.71%	0.075%
105	7.841	7.815	7.857	VV	148724	1683588	13.68%	0.604%
106	7.869	7.857	7.889	VV	100944	1109452	9.01%	0.398%
107	7.904	7.889	7.916	VV	30323	416755	3.39%	0.150%
108	7.935	7.916	7.952	VV	81415	1023799	8.32%	0.368%
109	7.959	7.952	7.975	VV	24520	308622	2.51%	0.111%
110	8.024	7.975	8.057	VV	1143092	12309820	100.00%	4.419%
111	8.073	8.057	8.096	VV	21687	410289	3.33%	0.147%
112	8.113	8.096	8.125	VV	27514	363432	2.95%	0.130%
113	8.139	8.125	8.153	VV	25376	358529	2.91%	0.129%
114	8.163	8.153	8.183	VV	18915	288559	2.34%	0.104%
115	8.220	8.183	8.246	VV	665717	6795247	55.20%	2.440%
116	8.251	8.246	8.265	VV	16013	169503	1.38%	0.061%
117	8.280	8.265	8.290	VV	18372	238144	1.93%	0.085%
118	8.320	8.290	8.365	VV	1166539	12202182	99.13%	4.381%
119	8.384	8.365	8.408	VV	22255	431665	3.51%	0.155%
120	8.424	8.408	8.452	VV	25402	519825	4.22%	0.187%
121	8.467	8.452	8.498	VV	26143	515218	4.19%	0.185%
122	8.512	8.498	8.526	VV	15930	230684	1.87%	0.083%
123	8.534	8.526	8.538	VV	13071	90166	0.73%	0.032%
124	8.558	8.538	8.578	VV	46072	675060	5.48%	0.242%
125	8.591	8.578	8.615	VV	23345	383052	3.11%	0.138%
126	8.630	8.615	8.635	VV	18137	188157	1.53%	0.068%
127	8.652	8.635	8.670	VV	64032	774630	6.29%	0.278%
128	8.684	8.670	8.708	VV	25038	465648	3.78%	0.167%
129	8.725	8.708	8.742	VV	43632	548435	4.46%	0.197%
130	8.765	8.742	8.817	VV	48677	926351	7.53%	0.333%
131	8.837	8.817	8.851	VV	11283	202808	1.65%	0.073%
132	8.879	8.851	8.897	VV	37853	554716	4.51%	0.199%
133	8.912	8.897	8.932	VV	31124	391884	3.18%	0.141%
134	8.940	8.932	8.952	VV	9680	111130	0.90%	0.040%
135	8.961	8.952	8.976	VV	9492	128339	1.04%	0.046%
136	8.993	8.976	8.998	VV	16376	163938	1.33%	0.059%
137	9.014	8.998	9.036	VV	34682	479363	3.89%	0.172%
138	9.046	9.036	9.053	VV	9052	87454	0.71%	0.031%
139	9.098	9.053	9.145	VV	1133549	11950399	97.08%	4.290%
140	9.172	9.145	9.192	VV	34103	510167	4.14%	0.183%
141	9.205	9.192	9.227	VV	13972	239940	1.95%	0.086%

142	9.245	9.227	9.262	VV	15311	243881	1.98%	0.088%
143	9.281	9.262	9.288	VV	16043	194679	1.58%	0.070%
144	9.304	9.288	9.327	VV	35886	486688	3.95%	0.175%
145	9.342	9.327	9.360	VV	10330	177497	1.44%	0.064%
146	9.378	9.360	9.405	VV	36619	508319	4.13%	0.182%
147	9.419	9.405	9.448	VV	12335	261136	2.12%	0.094%
148	9.471	9.448	9.487	VV	10709	199753	1.62%	0.072%
149	9.522	9.487	9.561	VV	73616	1018343	8.27%	0.366%
150	9.610	9.561	9.643	VV	6543	274028	2.23%	0.098%
151	9.682	9.643	9.731	VV	7956	255173	2.07%	0.092%
152	9.741	9.731	9.767	VV	3214	60074	0.49%	0.022%
153	9.783	9.767	9.811	VV	4046	85933	0.70%	0.031%
154	9.838	9.811	9.860	VV	8331	143099	1.16%	0.051%
155	9.908	9.860	9.926	VV	5205	164248	1.33%	0.059%
156	9.942	9.926	9.951	VV	6614	79891	0.65%	0.029%
157	9.970	9.951	9.993	VV	10041	190744	1.55%	0.068%
158	10.012	9.993	10.063	VV	9321	220280	1.79%	0.079%
159	10.088	10.063	10.128	VV	7560	190882	1.55%	0.069%
160	10.143	10.128	10.168	VV	4675	90289	0.73%	0.032%
161	10.182	10.168	10.196	VV	4054	54446	0.44%	0.020%
162	10.217	10.196	10.238	VV	4162	81890	0.67%	0.029%
163	10.256	10.238	10.272	VV	5572	78934	0.64%	0.028%
164	10.293	10.272	10.355	VV	12385	262962	2.14%	0.094%
165	10.384	10.355	10.405	VV	2769	63876	0.52%	0.023%
166	10.449	10.405	10.455	VV	8726	98898	0.80%	0.036%
167	10.486	10.455	10.528	VV	1054010	11343958	92.15%	4.073%
168	10.563	10.528	10.637	VV	978779	11220937	91.15%	4.028%
169	10.644	10.637	10.648	VV	3223	20907	0.17%	0.008%
170	10.654	10.648	10.693	VV	3184	75230	0.61%	0.027%
171	10.706	10.693	10.734	VV	2188	42161	0.34%	0.015%
172	10.757	10.734	10.773	VV	2040	36586	0.30%	0.013%
173	10.806	10.773	10.823	VV	4456	80889	0.66%	0.029%
174	10.837	10.823	10.869	VV	2854	65177	0.53%	0.023%
175	10.886	10.869	10.905	VV	3220	50669	0.41%	0.018%
176	10.915	10.905	10.925	VV	1404	15682	0.13%	0.006%
177	10.955	10.925	10.993	VV	65741	742959	6.04%	0.267%
178	11.013	10.993	11.023	VV	2134	30684	0.25%	0.011%
179	11.035	11.023	11.060	VV	1856	29244	0.24%	0.010%
180	11.081	11.060	11.115	VV	1108	25777	0.21%	0.009%
181	11.144	11.115	11.207	VV	2007	52624	0.43%	0.019%
182	11.254	11.207	11.279	VV	679023	7194527	58.45%	2.583%
183	11.288	11.279	11.308	VV	4754	56984	0.46%	0.020%
184	11.321	11.308	11.358	VV	3679	60609	0.49%	0.022%
185	11.402	11.358	11.412	VV	1800	39566	0.32%	0.014%
186	11.433	11.412	11.453	VV	3099	52847	0.43%	0.019%
187	11.469	11.453	11.520	VV	2829	54740	0.44%	0.020%
188	11.540	11.520	11.560	VV	649	11748	0.10%	0.004%
189	11.588	11.560	11.597	VV	1533	23605	0.19%	0.008%
190	11.602	11.597	11.650	VV	1785	39605	0.32%	0.014%
191	11.674	11.650	11.698	VV	7134	90276	0.73%	0.032%
192	11.702	11.698	11.712	VV	828	5884	0.05%	0.002%
193	11.717	11.712	11.747	VV	724	12079	0.10%	0.004%
194	11.778	11.747	11.803	VV	847	21926	0.18%	0.008%

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195	11.832	11.803	11.850	VV	1512	30849	0.25%	0.011%
196	11.869	11.850	11.935	VV	14654	197426	1.60%	0.071%
197	11.939	11.935	11.943	VV	951	4153	0.03%	0.001%
198	11.948	11.943	11.968	VV	926	12377	0.10%	0.004%
199	11.976	11.968	11.996	VV	725	10349	0.08%	0.004%
200	12.028	11.996	12.051	VV	1425	30656	0.25%	0.011%
201	12.075	12.051	12.104	VV	2052	43147	0.35%	0.015%
202	12.123	12.104	12.155	VV	4024	60490	0.49%	0.022%
203	12.175	12.155	12.192	VV	3148	46166	0.38%	0.017%
204	12.219	12.192	12.232	VV	6368	88289	0.72%	0.032%
205	12.257	12.232	12.263	VV	62937	597070	4.85%	0.214%
206	12.291	12.263	12.362	VV	957950	11141634	90.51%	4.000%
207	12.368	12.362	12.376	VV	1040	7156	0.06%	0.003%
208	12.391	12.376	12.396	VV	1056	9977	0.08%	0.004%
209	12.398	12.396	12.408	VV	920	5941	0.05%	0.002%
210	12.420	12.408	12.441	VV	851	11763	0.10%	0.004%
211	12.471	12.441	12.509	VV	7485	93906	0.76%	0.034%
212	12.526	12.509	12.547	VV	735	12150	0.10%	0.004%
213	12.586	12.547	12.623	VV	925051	10938020	88.86%	3.927%
214	12.643	12.623	12.666	VV	9161	137656	1.12%	0.049%
215	12.693	12.666	12.722	VV	91425	1047239	8.51%	0.376%
216	12.741	12.722	12.768	VV	1853	34823	0.28%	0.013%
217	12.772	12.768	12.814	VV	878	20350	0.17%	0.007%
218	12.819	12.814	12.831	VV	632	6148	0.05%	0.002%
219	12.864	12.831	12.898	VV	56764	699189	5.68%	0.251%
220	12.918	12.898	12.973	VV	4505	86377	0.70%	0.031%
221	12.994	12.973	13.013	VV	854	16679	0.14%	0.006%
222	13.025	13.013	13.051	VV	715	13605	0.11%	0.005%
223	13.094	13.051	13.142	VV	3983	75120	0.61%	0.027%
224	13.148	13.142	13.170	VV	964	10466	0.09%	0.004%
225	13.174	13.170	13.177	VV	514	1775	0.01%	0.001%
226	13.200	13.177	13.226	VV	643	13913	0.11%	0.005%
227	13.233	13.226	13.241	VV	472	2864	0.02%	0.001%
228	13.244	13.241	13.252	VV	342	1870	0.02%	0.001%
229	13.297	13.252	13.304	VV	587	12972	0.11%	0.005%
230	13.320	13.304	13.333	VV	633	8688	0.07%	0.003%
231	13.347	13.333	13.351	VV	634	4928	0.04%	0.002%
232	13.356	13.351	13.375	VV	620	8564	0.07%	0.003%
233	13.400	13.375	13.419	VV	3282	46517	0.38%	0.017%
234	13.447	13.419	13.502	VV	56239	700036	5.69%	0.251%
235	13.512	13.502	13.532	VV	662	7999	0.06%	0.003%
236	13.538	13.532	13.546	VV	351	2333	0.02%	0.001%
237	13.554	13.546	13.574	VV	296	4384	0.04%	0.002%
238	13.578	13.574	13.592	VV	241	1363	0.01%	0.000%
239	13.610	13.592	13.623	VV	351	3642	0.03%	0.001%
240	13.629	13.623	13.632	VV	232	1010	0.01%	0.000%
241	13.642	13.632	13.657	VV	236	2325	0.02%	0.001%
242	13.664	13.657	13.680	VV	302	2831	0.02%	0.001%
243	13.693	13.680	13.702	VV	433	3460	0.03%	0.001%
244	13.715	13.702	13.728	PV	277	2418	0.02%	0.001%
245	13.735	13.728	13.762	VV	219	2723	0.02%	0.001%
246	13.769	13.762	13.785	PV	223	2129	0.02%	0.001%

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247	13.808	13.785	13.817	VV	497	5816	0.05%	0.002%
248	13.819	13.817	13.830	VV	361	2456	0.02%	0.001%
249	13.837	13.830	13.851	VV	464	4668	0.04%	0.002%
250	13.882	13.851	13.921	VV	1436	28510	0.23%	0.010%
251	13.929	13.921	13.955	VV	466	5290	0.04%	0.002%
252	13.972	13.955	13.980	VV	374	3385	0.03%	0.001%
253	14.006	13.980	14.020	VV	1032	16046	0.13%	0.006%
254	14.028	14.020	14.054	VV	794	10104	0.08%	0.004%
255	14.069	14.054	14.091	VV	1341	19516	0.16%	0.007%
256	14.097	14.091	14.130	VV	699	12018	0.10%	0.004%
257	14.135	14.130	14.153	VV	579	5889	0.05%	0.002%
258	14.162	14.153	14.190	VV	559	9287	0.08%	0.003%
259	14.221	14.190	14.270	VV	3923	58889	0.48%	0.021%
260	14.303	14.270	14.345	VV	3936	59359	0.48%	0.021%
261	14.349	14.345	14.369	VV	407	4417	0.04%	0.002%
262	14.382	14.369	14.392	VV	455	3819	0.03%	0.001%
263	14.403	14.392	14.411	VV	356	3020	0.02%	0.001%
264	14.455	14.411	14.472	VV	794950	10340165	84.00%	3.712%
265	14.499	14.472	14.524	VV	846949	10165844	82.58%	3.650%
266	14.543	14.524	14.612	VV	57483	813517	6.61%	0.292%
267	14.630	14.612	14.674	VV	2132	47085	0.38%	0.017%
268	14.678	14.674	14.683	VV	597	3129	0.03%	0.001%
269	14.691	14.683	14.700	VV	607	5217	0.04%	0.002%
270	14.721	14.700	14.736	VV	941	15569	0.13%	0.006%
271	14.747	14.736	14.807	VV	685	18548	0.15%	0.007%
272	14.817	14.807	14.829	VV	344	3866	0.03%	0.001%
273	14.878	14.829	14.900	VV	3553	54922	0.45%	0.020%
274	14.921	14.900	14.990	VV	5804	136505	1.11%	0.049%
275	14.996	14.990	15.002	VV	770	4988	0.04%	0.002%
276	15.003	15.002	15.027	VV	821	8240	0.07%	0.003%
277	15.032	15.027	15.038	VV	339	2116	0.02%	0.001%
278	15.065	15.038	15.092	VV	2328	39388	0.32%	0.014%
279	15.110	15.092	15.138	VV	439	8278	0.07%	0.003%
280	15.154	15.138	15.162	VV	313	2783	0.02%	0.001%
281	15.177	15.162	15.182	VV	440	3801	0.03%	0.001%
282	15.186	15.182	15.188	VV	359	1047	0.01%	0.000%
283	15.199	15.188	15.204	VV	512	3923	0.03%	0.001%
284	15.211	15.204	15.220	VV	521	4136	0.03%	0.001%
285	15.223	15.220	15.231	VV	496	2534	0.02%	0.001%
286	15.259	15.231	15.323	VV	857	25391	0.21%	0.009%
287	15.328	15.323	15.342	VV	358	2913	0.02%	0.001%
288	15.355	15.342	15.368	VV	502	5407	0.04%	0.002%
289	15.373	15.368	15.375	VV	436	1455	0.01%	0.001%
290	15.394	15.375	15.426	VV	786	17041	0.14%	0.006%
291	15.443	15.426	15.452	VV	573	6633	0.05%	0.002%
292	15.457	15.452	15.476	VV	609	6323	0.05%	0.002%
293	15.485	15.476	15.498	VV	554	4332	0.04%	0.002%
294	15.524	15.498	15.530	VV	934	9941	0.08%	0.004%
295	15.561	15.530	15.604	VV	49355	651295	5.29%	0.234%
296	15.613	15.604	15.654	VV	673	12752	0.10%	0.005%
297	15.710	15.669	15.738	VV	379	9794	0.08%	0.004%
298	15.756	15.738	15.763	VV	336	3238	0.03%	0.001%
299	15.779	15.763	15.783	VV	483	3703	0.03%	0.001%

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300	15.788	15.783	15.819	VV	489	7420	0.06%	0.003%
301	15.824	15.819	15.840	VV	212	1054	0.01%	0.000%
302	15.861	15.840	15.878	PV	310	3414	0.03%	0.001%
303	15.890	15.878	15.913	VV	264	3452	0.03%	0.001%
304	15.934	15.913	15.960	VV	893	17122	0.14%	0.006%
305	16.003	15.960	16.018	VV	688733	9881653	80.27%	3.548%
306	16.040	16.018	16.092	VV	814235	9876180	80.23%	3.546%
307	16.115	16.092	16.152	VV	7113	113798	0.92%	0.041%
308	16.173	16.152	16.206	VV	1835	39454	0.32%	0.014%
309	16.209	16.206	16.235	VV	979	14352	0.12%	0.005%
310	16.257	16.235	16.290	VV	2414	41265	0.34%	0.015%
311	16.313	16.290	16.328	VV	720	11952	0.10%	0.004%
312	16.380	16.328	16.450	VV	695514	9371173	76.13%	3.364%
313	16.502	16.450	16.531	VV	48050	749847	6.09%	0.269%
314	16.545	16.531	16.593	VV	3306	55002	0.45%	0.020%
315	16.604	16.593	16.613	VV	574	5955	0.05%	0.002%
316	16.620	16.613	16.637	VV	464	5446	0.04%	0.002%
317	16.645	16.637	16.651	VV	322	2610	0.02%	0.001%
318	16.662	16.651	16.668	VV	401	3808	0.03%	0.001%
319	16.677	16.668	16.687	VV	462	4087	0.03%	0.001%
320	16.692	16.687	16.696	VV	434	2194	0.02%	0.001%
321	16.714	16.696	16.745	VV	485	7388	0.06%	0.003%
322	16.810	16.745	16.823	PV	535	14824	0.12%	0.005%
323	16.827	16.823	16.848	VV	516	5959	0.05%	0.002%
324	16.874	16.848	16.900	VV	804	16847	0.14%	0.006%
325	16.912	16.900	16.926	VV	563	6800	0.06%	0.002%
326	16.951	16.926	16.983	VV	2376	37231	0.30%	0.013%
327	17.000	16.983	17.018	VV	407	5291	0.04%	0.002%
328	17.030	17.018	17.042	VV	329	3843	0.03%	0.001%
329	17.052	17.042	17.057	VV	499	2961	0.02%	0.001%
330	17.075	17.057	17.092	VV	957	11369	0.09%	0.004%
331	17.095	17.092	17.108	VV	362	2740	0.02%	0.001%
332	17.114	17.108	17.118	VV	250	1380	0.01%	0.000%
333	17.155	17.118	17.195	VV	4756	69454	0.56%	0.025%
334	17.226	17.195	17.259	VV	4737	73399	0.60%	0.026%
335	17.279	17.259	17.298	VV	972	15290	0.12%	0.005%
336	17.308	17.298	17.313	VV	511	3222	0.03%	0.001%
337	17.388	17.313	17.424	VV	45053	625892	5.08%	0.225%
338	17.430	17.424	17.453	VV	494	5762	0.05%	0.002%
339	17.478	17.453	17.493	VV	673	8965	0.07%	0.003%
340	17.497	17.493	17.508	VV	280	1988	0.02%	0.001%
341	17.531	17.516	17.551	VV	354	5453	0.04%	0.002%
342	17.560	17.551	17.573	VV	414	4164	0.03%	0.001%
343	17.582	17.573	17.596	VV	408	4114	0.03%	0.001%
344	17.600	17.596	17.611	VV	281	1662	0.01%	0.001%
345	17.621	17.611	17.628	PV	209	1269	0.01%	0.000%
346	17.639	17.635	17.652	PV	309	1022	0.01%	0.000%
347	17.681	17.652	17.700	VV	818	13839	0.11%	0.005%
348	17.748	17.700	17.761	VV	639416	9223573	74.93%	3.311%
349	17.785	17.761	17.953	VV	641059	8787291	71.38%	3.155%
350	18.001	17.953	18.107	VV	594668	8791409	71.42%	3.156%
351	18.120	18.107	18.156	VV	748	10643	0.09%	0.004%

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Sum of corrected areas: 278541977

Aromatic EPH 111424.M Sat Nov 16 10:28:20 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-9-TPH-15MSD			SDG No.:	P4839
Lab Sample ID:	P4839-07MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	82.7
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 15:49	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	45.8	E	1	0.46	1.21	mg/kg	FC067777.D
Aliphatic C12-C16	Aliphatic C12-C16	67.7	E	1	0.29	0.81	mg/kg	FC067777.D
Aliphatic C16-C21	Aliphatic C16-C21	17.0		1	0.36	1.21	mg/kg	FC067777.D
Aliphatic C21-C28	Aliphatic C21-C28	18.0		1	0.97	1.61	mg/kg	FC067777.D
Aliphatic C28-C40	Aliphatic C28-C40	32.0		1	2.17	2.41	mg/kg	FC067777.D
Aromatic C10-C12	Aromatic C10-C12	12.2		1	0.36	0.81	mg/kg	FD048746.D
Aromatic C12-C16	Aromatic C12-C16	28.4	E	1	0.41	1.21	mg/kg	FD048746.D
Aromatic C16-C21	Aromatic C16-C21	31.8		1	1.16	2.01	mg/kg	FD048746.D
Aromatic C21-C36	Aromatic C21-C36	42.7		1	2.41	3.22	mg/kg	FD048746.D
Total AliphaticEPH	Total AliphaticEPH	181			4.25	7.25	mg/kg	
Total AromaticEPH	Total AromaticEPH	115			4.34	7.25	mg/kg	
Total EPH	Total EPH	296			8.59	14.5	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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-9-TPH-15MSD			SDG No.:	P4839
Lab Sample ID:	P4839-07MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	82.7
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 14:15	11/15/24 15:49	PB164996

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	45.8	E	1	0.46	1.21	mg/kg	FC067777.D
Aliphatic C12-C16	Aliphatic C12-C16	67.7	E	1	0.29	0.81	mg/kg	FC067777.D
Aliphatic C16-C21	Aliphatic C16-C21	17.0		1	0.36	1.21	mg/kg	FC067777.D
Aliphatic C21-C28	Aliphatic C21-C28	18.0		1	0.97	1.61	mg/kg	FC067777.D
Aliphatic C28-C40	Aliphatic C28-C40	32.0		1	2.17	2.41	mg/kg	FC067777.D
Aromatic C10-C12	Aromatic C10-C12	12.2		1	0.36	0.81	mg/kg	FD048746.D
Aromatic C12-C16	Aromatic C12-C16	28.4	E	1	0.41	1.21	mg/kg	FD048746.D
Aromatic C16-C21	Aromatic C16-C21	31.8		1	1.16	2.01	mg/kg	FD048746.D
Aromatic C21-C36	Aromatic C21-C36	42.7		1	2.41	3.22	mg/kg	FD048746.D
Total AliphaticEPH	Total AliphaticEPH	181			4.25	7.25	mg/kg	
Total AromaticEPH	Total AromaticEPH	115			4.34	7.25	mg/kg	
Total EPH	Total EPH	296			8.59	14.5	mg/kg	

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LOQ = Limit of Quantitation
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E = Value Exceeds Calibration Range
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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	EX-9-TPH-15MSD		SDG No.:	P4839	
Lab Sample ID:	P4839-07MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	82.7	
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
FC067777.D	1	11/14/24	11/15/24	PB164996

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C12	Aliphatic C9-C12		45.8	E	0.46	1.21	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16		67.7	E	0.29	0.81	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21		17.0		0.36	1.21	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28		18.0		0.97	1.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		32.0		2.17	2.41	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		41.1		40 - 140	82%	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:	P4839-07MSD	Acq On:	15 Nov 2024 15:49
Client Sample ID:	P4839-07MSD	Operator:	YP/AJ
Data file:	FC067777.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.172	21.693	356665222	2240		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.931	12.931	5959755	41.06		ug/ml
Aliphatic C9-C12	3.172	6.448	94312326	568.862	300	ug/ml
Aliphatic C12-C16	6.449	9.838	143303844	841.062	200	ug/ml
Aliphatic C16-C21	9.839	13.196	35735594	210.678	300	ug/ml
Aliphatic C21-C28	13.197	16.850	35207267	223.851	400	ug/ml
Aliphatic C28-C40	16.851	21.693	48106191	397.206	600	ug/ml
Aliphatic C9-C28	3.172	16.850	308559031	1840	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067777.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:49
Operator : YP/AJ
Sample : P4839-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 16 08:22:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.931	5959755	41.056 ug/ml
Spiked Amount	50.000		Recovery =	82.11%
	Target Compounds			
1) T	n-Nonane (C9)	3.274	5496915	33.700 ug/mlm
2) T	n-Decane (C10)	4.337	6921274	41.737 ug/ml
4) T	n-Dodecane (C12)	6.352	9000024	53.435 ug/mlm
6) T	n-Tetradecane (C14)	8.145	9212111	55.007 ug/mlm
7) T	n-Hexadecane (C16)	9.742	9778074	56.424 ug/ml
8) T	n-Octadecane (C18)	11.182	9562115	54.349 ug/ml
10) T	n-Eicosane (C20)	12.489	9479129	56.294 ug/ml
11) T	n-Heneicosane (C21)	13.101	9028252	54.870 ug/ml
13) T	n-Docosane (C22)	13.686	8919736	54.772 ug/ml
14) T	n-Tetracosane (C24)	14.787	8688203	54.172 ug/ml
15) T	n-Hexacosane (C26)	15.807	8387073	54.158 ug/ml
16) T	n-Octacosane (C28)	16.756	8069437	53.432 ug/ml
17) T	n-Tricontane (C30)	17.641	7807862	50.996 ug/ml
18) T	n-Dotriacontane (C32)	18.472	7523371	50.940 ug/ml
19) T	n-Tetratriacontane (C34)	19.254	7293841	57.828 ug/ml
20) T	n-Hexatriacontane (C36)	19.993	6952654	66.477 ug/ml
21) T	n-Octatriacontane (C38)	20.715	6843748	70.060 ug/ml
22) T	n-Tetracontane (C40)	21.601	6868044	70.466 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111524AL\
Data File : FC067777.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:49
Operator : YP/AJ
Sample : P4839-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

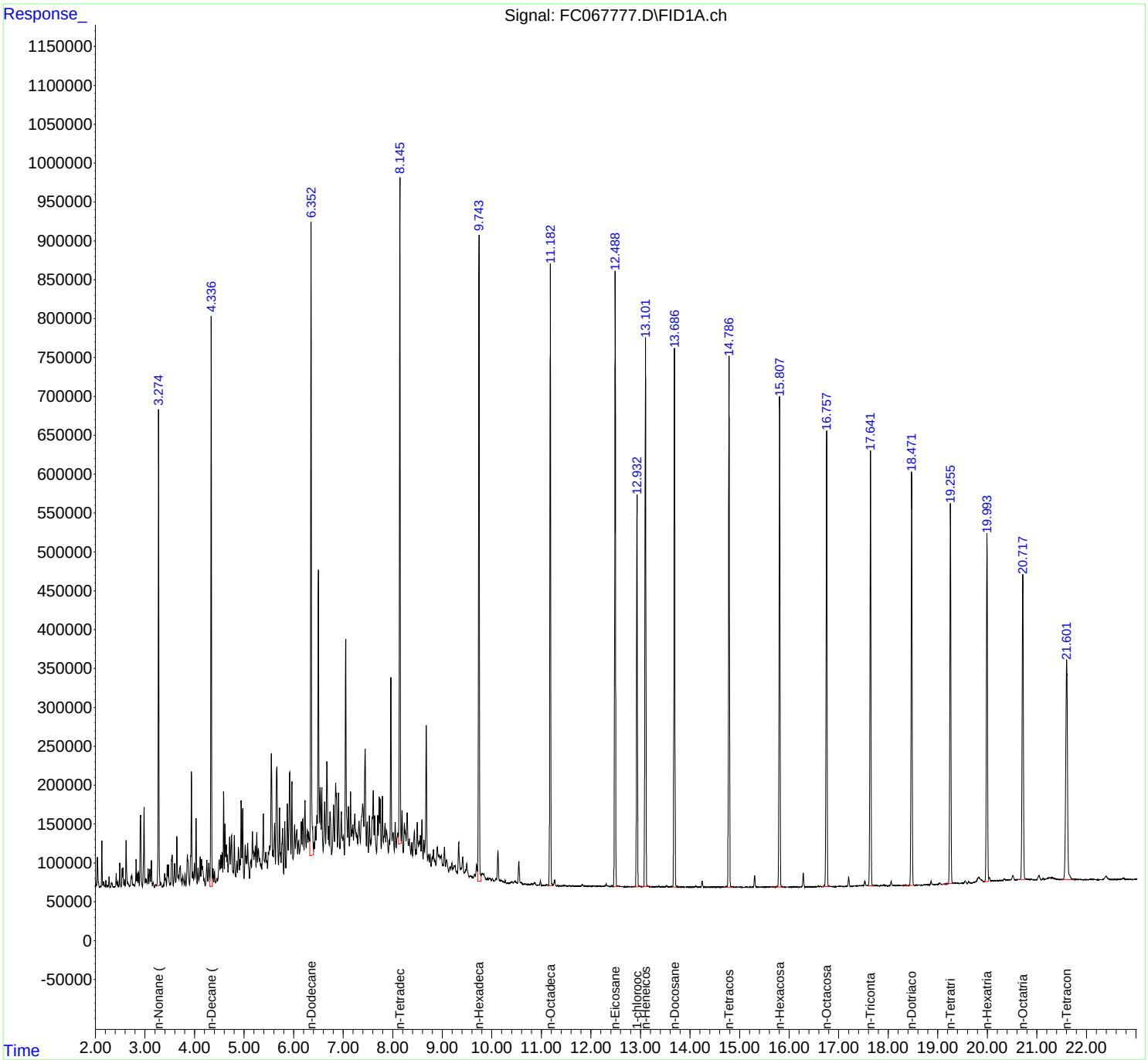
Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Integration File: autoint1.e
Quant Time: Nov 16 08:22:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11152
Data File : FC067777.D
Signal(s) : FID1A.ch
Acq On : 15 Nov 2024 15:49
Sample : P4839-07MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.274	3.254	3.308	PH	612215	5412928	48.44%	1.492%
2	3.320	3.308	3.350	PV	4149	38868	0.35%	0.011%
3	3.397	3.350	3.434	PV	17472	335064	3.00%	0.092%
4	3.450	3.434	3.460	VV	28137	270448	2.42%	0.075%
5	3.473	3.460	3.502	VV	29612	368989	3.30%	0.102%
6	3.511	3.502	3.517	VV	5382	41136	0.37%	0.011%
7	3.549	3.517	3.570	VV	41054	704458	6.30%	0.194%
8	3.597	3.570	3.619	VV	30637	446968	4.00%	0.123%
9	3.643	3.619	3.665	VV	64455	751831	6.73%	0.207%
10	3.674	3.665	3.685	VV	15261	164255	1.47%	0.045%
11	3.712	3.685	3.748	VV	27441	614200	5.50%	0.169%
12	3.764	3.748	3.793	VV	14695	232516	2.08%	0.064%
13	3.809	3.793	3.826	VV	17046	169481	1.52%	0.047%
14	3.856	3.826	3.899	VV	42566	865902	7.75%	0.239%
15	3.938	3.899	3.981	VV	148826	2027413	18.14%	0.559%
16	3.998	3.981	4.012	VV	31113	361167	3.23%	0.100%
17	4.032	4.012	4.053	VV	88072	908477	8.13%	0.250%
18	4.071	4.053	4.088	VV	24615	308905	2.76%	0.085%
19	4.114	4.088	4.128	VV	39635	502080	4.49%	0.138%
20	4.141	4.128	4.153	VV	36077	400785	3.59%	0.110%
21	4.160	4.153	4.189	VV	26924	425752	3.81%	0.117%
22	4.196	4.189	4.216	VV	10714	101825	0.91%	0.028%
23	4.249	4.216	4.269	VV	34685	501123	4.48%	0.138%
24	4.288	4.269	4.311	VV	31033	459099	4.11%	0.127%
25	4.337	4.311	4.362	VV	737514	6945400	62.15%	1.915%
26	4.375	4.362	4.389	VV	24068	265429	2.38%	0.073%
27	4.404	4.389	4.427	VV	20072	278425	2.49%	0.077%
28	4.453	4.427	4.468	VV	11328	212146	1.90%	0.058%
29	4.499	4.468	4.517	VV	35173	741103	6.63%	0.204%
30	4.532	4.517	4.545	VV	41490	537253	4.81%	0.148%
31	4.558	4.545	4.571	VV	44617	532347	4.76%	0.147%
32	4.588	4.571	4.603	VV	122818	1237233	11.07%	0.341%
33	4.617	4.603	4.630	VV	80929	910626	8.15%	0.251%
34	4.641	4.630	4.676	VV	54780	1087425	9.73%	0.300%
35	4.708	4.676	4.727	VV	65017	1218233	10.90%	0.336%
36	4.747	4.727	4.784	VV	66734	1330838	11.91%	0.367%

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MSD

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/18/2024

rteres

37	4.803	4.784	4.831	VV	66830	931039	8.33%	0.257%
38	4.854	4.831	4.867	VV	33892	511762	4	
39	4.887	4.867	4.907	VV	50934	873140	7	
40	4.942	4.907	4.957	VV	111022	1599117	14	
41	4.972	4.957	4.998	VV	100967	1261681	11	
42	5.024	4.998	5.039	VV	54420	826372	7	
43	5.048	5.039	5.057	VV	40138	392567	3.51%	0.108%
44	5.072	5.057	5.110	VV	56848	1066954	9.55%	0.294%
45	5.136	5.110	5.150	VV	34934	651654	5.83%	0.180%
46	5.169	5.150	5.198	VV	72259	1394860	12.48%	0.385%
47	5.209	5.198	5.213	VV	42162	351801	3.15%	0.097%
48	5.227	5.213	5.241	VV	53616	717861	6.42%	0.198%
49	5.257	5.241	5.273	VV	70143	923311	8.26%	0.255%
50	5.289	5.273	5.309	VV	50160	909202	8.14%	0.251%
51	5.317	5.309	5.333	VV	36778	476190	4.26%	0.131%
52	5.345	5.333	5.357	VV	30149	398869	3.57%	0.110%
53	5.389	5.357	5.417	VV	94537	1774129	15.88%	0.489%
54	5.439	5.417	5.473	VV	44967	1199251	10.73%	0.331%
55	5.551	5.473	5.591	VV	171144	4788271	42.85%	1.320%
56	5.616	5.591	5.634	VV	81968	1445804	12.94%	0.399%
57	5.660	5.634	5.695	VV	154539	3266364	29.23%	0.900%
58	5.716	5.695	5.747	VV	101832	1767124	15.81%	0.487%
59	5.777	5.747	5.800	VV	76085	1521729	13.62%	0.420%
60	5.822	5.800	5.844	VV	84046	1221757	10.93%	0.337%
61	5.873	5.844	5.891	VV	106926	1808170	16.18%	0.498%
62	5.920	5.891	5.946	VV	146241	3006017	26.90%	0.829%
63	5.965	5.946	5.988	VV	135197	1899730	17.00%	0.524%
64	6.020	5.988	6.037	VV	80565	1647508	14.74%	0.454%
65	6.064	6.037	6.082	VV	74142	1653806	14.80%	0.456%
66	6.098	6.082	6.118	VV	59707	1150409	10.29%	0.317%
67	6.155	6.118	6.169	VV	83942	1888481	16.90%	0.521%
68	6.185	6.169	6.210	VV	87468	1723538	15.42%	0.475%
69	6.229	6.210	6.253	VV	111873	1997483	17.87%	0.551%
70	6.276	6.253	6.291	VV	73803	1459475	13.06%	0.402%
71	6.304	6.291	6.324	VV	71507	1247621	11.16%	0.344%
72	6.353	6.324	6.399	VV	844511	10894982	97.49%	3.004%
73	6.410	6.399	6.421	VV	56560	692604	6.20%	0.191%
74	6.440	6.421	6.453	VV	78303	1261565	11.29%	0.348%
75	6.500	6.453	6.523	VV	407626	6590224	58.97%	1.817%
76	6.537	6.523	6.556	VV	127806	1993313	17.84%	0.550%
77	6.569	6.556	6.598	VV	127336	2056810	18.41%	0.567%
78	6.627	6.598	6.648	VV	109584	2305301	20.63%	0.636%
79	6.672	6.648	6.717	VV	161306	3957473	35.41%	1.091%
80	6.735	6.717	6.768	VV	97034	2214689	19.82%	0.611%
81	6.807	6.768	6.827	VV	105813	2460575	22.02%	0.678%
82	6.850	6.827	6.886	VV	133044	3454666	30.91%	0.952%
83	6.907	6.886	6.935	VV	121063	2321070	20.77%	0.640%
84	6.963	6.935	6.991	VV	97153	2368454	21.19%	0.653%
85	7.004	6.991	7.026	VV	66194	1193418	10.68%	0.329%
86	7.051	7.026	7.088	VV	318847	5147112	46.06%	1.419%
87	7.105	7.088	7.126	VV	103679	1785391	15.98%	0.492%
88	7.150	7.126	7.168	VV	122291	2116122	18.94%	0.583%
89	7.194	7.168	7.210	VV	80684	1797311	16.08%	0.495%

Instrument :
FID_C
ClientSampleId :
EX-9-TPH-15MSD

rteres

90	7.235	7.210	7.293	VV	93765	3620820	32.40%	0.998%
91	7.321	7.293	7.347	VV	85009	2242640	20	
92	7.395	7.347	7.418	VV	107657	3784332	33	
93	7.443	7.418	7.469	VV	178459	3527827	31	
94	7.485	7.469	7.509	VV	83988	1562415	13	
95	7.530	7.509	7.549	VV	91693	1632658	14	
96	7.558	7.549	7.565	VV	60160	541395	4.84%	0.149%
97	7.607	7.565	7.624	VV	124097	3160204	28.28%	0.871%
98	7.636	7.624	7.675	VV	91742	2029921	18.16%	0.560%
99	7.697	7.675	7.710	VV	92205	1472631	13.18%	0.406%
100	7.727	7.710	7.738	VV	116502	1578670	14.13%	0.435%
101	7.749	7.738	7.769	VV	114095	1565955	14.01%	0.432%
102	7.792	7.769	7.813	VV	116610	2088893	18.69%	0.576%
103	7.844	7.813	7.860	VV	81994	1945997	17.41%	0.536%
104	7.876	7.860	7.914	VV	72807	1975875	17.68%	0.545%
105	7.932	7.914	7.940	VV	60963	857029	7.67%	0.236%
106	7.963	7.940	7.989	VV	270008	3865857	34.59%	1.066%
107	8.009	7.989	8.033	VV	70161	1662489	14.88%	0.458%
108	8.051	8.033	8.071	VV	83836	1449225	12.97%	0.400%
109	8.103	8.071	8.114	VV	69347	1628071	14.57%	0.449%
110	8.145	8.114	8.172	VV	906678	11175089	100.00%	3.081%
111	8.189	8.172	8.213	VV	98341	1743591	15.60%	0.481%
112	8.237	8.213	8.270	VV	82364	2239242	20.04%	0.617%
113	8.293	8.270	8.317	VV	95590	2094144	18.74%	0.577%
114	8.334	8.317	8.368	VV	61739	1629901	14.59%	0.449%
115	8.386	8.368	8.403	VV	57047	1024714	9.17%	0.283%
116	8.438	8.403	8.458	VV	71781	1873362	16.76%	0.516%
117	8.467	8.458	8.477	VV	48819	512383	4.59%	0.141%
118	8.496	8.477	8.522	VV	82713	1655916	14.82%	0.457%
119	8.559	8.522	8.574	VV	65698	1777866	15.91%	0.490%
120	8.591	8.574	8.614	VV	86579	1503461	13.45%	0.414%
121	8.631	8.614	8.645	VV	59891	935110	8.37%	0.258%
122	8.678	8.645	8.704	VV	208116	3405687	30.48%	0.939%
123	8.721	8.704	8.738	VV	42148	783463	7.01%	0.216%
124	8.753	8.738	8.775	VV	42530	784601	7.02%	0.216%
125	8.799	8.775	8.808	VV	39019	666086	5.96%	0.184%
126	8.823	8.808	8.842	VV	48213	838236	7.50%	0.231%
127	8.851	8.842	8.871	VV	34461	573161	5.13%	0.158%
128	8.901	8.871	8.921	VV	51788	1237879	11.08%	0.341%
129	8.932	8.921	8.956	VV	41251	850809	7.61%	0.235%
130	8.983	8.956	9.011	VV	40945	1198483	10.72%	0.330%
131	9.045	9.011	9.067	VV	51233	1204429	10.78%	0.332%
132	9.088	9.067	9.131	VV	35068	1103421	9.87%	0.304%
133	9.160	9.131	9.174	VV	26295	618700	5.54%	0.171%
134	9.194	9.174	9.212	VV	30892	609510	5.45%	0.168%
135	9.242	9.212	9.251	VV	28047	608669	5.45%	0.168%
136	9.258	9.251	9.303	VV	27977	703413	6.29%	0.194%
137	9.332	9.303	9.369	VV	57728	1335227	11.95%	0.368%
138	9.378	9.369	9.387	VV	24751	267348	2.39%	0.074%
139	9.413	9.387	9.441	VV	38738	916309	8.20%	0.253%
140	9.495	9.441	9.544	VV	30559	1280460	11.46%	0.353%
141	9.573	9.544	9.627	VV	15013	676935	6.06%	0.187%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/18/2024
Supervised By :Ankita Jodhani 11/18/2024

Instrument :
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ClientSampleId :
EX-9-TPH-15MSD

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/18/2024

rteres

142	9.652	9.627	9.667	VV	16593	361423	3.23%	0.100%
143	9.693	9.667	9.710	VV	28703	570128	5	
144	9.742	9.710	9.783	VV	826423	10113952	90	
145	9.802	9.783	9.830	VV	17839	475903	4	
146	9.841	9.830	9.885	VV	16952	448693	4	
147	9.910	9.885	9.929	VV	11415	280498	2	
148	9.951	9.929	9.991	VV	11956	399289	3.57%	0.110%
149	10.013	9.991	10.046	VV	11390	312708	2.80%	0.086%
150	10.086	10.046	10.097	VV	11510	284741	2.55%	0.078%
151	10.125	10.097	10.156	VV	47256	835416	7.48%	0.230%
152	10.173	10.156	10.198	VV	8917	218511	1.96%	0.060%
153	10.203	10.198	10.254	VV	8433	248733	2.23%	0.069%
154	10.271	10.254	10.296	VV	8753	172869	1.55%	0.048%
155	10.314	10.296	10.338	VV	5577	133301	1.19%	0.037%
156	10.372	10.338	10.383	VV	5876	145914	1.31%	0.040%
157	10.406	10.383	10.433	VV	7735	194633	1.74%	0.054%
158	10.472	10.433	10.510	VV	7760	296870	2.66%	0.082%
159	10.546	10.510	10.578	VV	33138	598735	5.36%	0.165%
160	10.591	10.578	10.631	VV	6227	161385	1.44%	0.044%
161	10.660	10.631	10.714	VV	4345	197742	1.77%	0.055%
162	10.734	10.714	10.772	VV	4081	125975	1.13%	0.035%
163	10.802	10.772	10.831	VV	4669	139990	1.25%	0.039%
164	10.866	10.831	10.909	VV	6324	200979	1.80%	0.055%
165	10.948	10.909	10.957	VV	3142	83304	0.75%	0.023%
166	10.981	10.957	11.021	VV	8285	167009	1.49%	0.046%
167	11.031	11.021	11.056	VV	2661	51726	0.46%	0.014%
168	11.108	11.056	11.144	VV	3786	145996	1.31%	0.040%
169	11.182	11.144	11.240	VV	789945	9691731	86.73%	2.672%
170	11.268	11.240	11.314	VV	9556	204648	1.83%	0.056%
171	11.331	11.314	11.356	VV	2224	50025	0.45%	0.014%
172	11.377	11.356	11.398	VV	1866	43044	0.39%	0.012%
173	11.446	11.398	11.459	VV	2176	69413	0.62%	0.019%
174	11.470	11.459	11.512	VV	2160	62614	0.56%	0.017%
175	11.542	11.512	11.554	VV	1969	44827	0.40%	0.012%
176	11.573	11.554	11.601	VV	2278	52937	0.47%	0.015%
177	11.628	11.601	11.673	VV	1967	72807	0.65%	0.020%
178	11.695	11.673	11.713	VV	1594	35545	0.32%	0.010%
179	11.732	11.713	11.763	VV	1710	46093	0.41%	0.013%
180	11.781	11.763	11.798	VV	1650	32411	0.29%	0.009%
181	11.824	11.798	11.878	VV	3292	107376	0.96%	0.030%
182	11.884	11.878	11.904	VV	1608	24116	0.22%	0.007%
183	11.937	11.904	11.955	VV	1660	46628	0.42%	0.013%
184	11.974	11.955	12.018	VV	1645	55742	0.50%	0.015%
185	12.060	12.018	12.101	VV	1822	74209	0.66%	0.020%
186	12.123	12.101	12.238	VV	1815	112606	1.01%	0.031%
187	12.309	12.238	12.332	VV	4089	110287	0.99%	0.030%
188	12.346	12.332	12.384	VV	2044	44413	0.40%	0.012%
189	12.423	12.384	12.447	VV	2067	52423	0.47%	0.014%
190	12.489	12.447	12.588	VV	783233	9557809	85.53%	2.635%
191	12.603	12.588	12.621	VV	1116	19660	0.18%	0.005%
192	12.629	12.621	12.711	VV	1027	38870	0.35%	0.011%
193	12.743	12.711	12.753	VV	874	18232	0.16%	0.005%
194	12.762	12.753	12.791	VV	916	17636	0.16%	0.005%

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					rteres			
195	12.809	12.791	12.828	VV	789	14962	0.13%	0.004%
196	12.845	12.828	12.864	VV	757	15242		
197	12.931	12.864	12.969	VV	497180	5993945	53	
198	12.981	12.969	13.018	VV	1575	34369		
199	13.034	13.018	13.057	VV	1005	21336		
200	13.101	13.057	13.183	VV	704458	9092120	81	
201	13.191	13.183	13.248	VV	883	26446	0.24%	0.007%
202	13.263	13.248	13.276	VV	599	8639	0.08%	0.002%
203	13.321	13.276	13.341	VV	825	26116	0.23%	0.007%
204	13.371	13.341	13.413	VV	962	28378	0.25%	0.008%
205	13.442	13.413	13.451	VV	532	11161	0.10%	0.003%
206	13.473	13.451	13.494	VV	1007	17276	0.15%	0.005%
207	13.524	13.494	13.574	VV	2117	44974	0.40%	0.012%
208	13.628	13.574	13.644	VV	1455	32129	0.29%	0.009%
209	13.686	13.644	13.798	VV	672745	8963157	80.21%	2.471%
210	13.806	13.798	13.843	VV	409	8432	0.08%	0.002%
211	13.916	13.843	13.939	VV	437	16854	0.15%	0.005%
212	13.948	13.939	13.961	VV	287	3475	0.03%	0.001%
213	13.980	13.961	14.002	VV	344	6467	0.06%	0.002%
214	14.016	14.002	14.032	VV	315	4248	0.04%	0.001%
215	14.077	14.032	14.091	VV	275	7823	0.07%	0.002%
216	14.117	14.091	14.171	VV	1775	30928	0.28%	0.009%
217	14.180	14.171	14.200	VV	329	3751	0.03%	0.001%
218	14.243	14.200	14.285	VV	7887	110801	0.99%	0.031%
219	14.306	14.285	14.351	VV	372	11803	0.11%	0.003%
220	14.363	14.351	14.428	VV	317	12004	0.11%	0.003%
221	14.435	14.428	14.458	VV	254	3391	0.03%	0.001%
222	14.497	14.458	14.508	VV	286	7535	0.07%	0.002%
223	14.516	14.508	14.544	VV	254	4796	0.04%	0.001%
224	14.558	14.544	14.575	VV	320	4591	0.04%	0.001%
225	14.593	14.575	14.631	VV	405	9060	0.08%	0.002%
226	14.644	14.631	14.702	VV	325	7901	0.07%	0.002%
227	14.738	14.702	14.746	VV	1272	16317	0.15%	0.004%
228	14.787	14.746	14.911	VV	673606	8695708	77.81%	2.397%
229	14.922	14.911	14.998	VV	211	6558	0.06%	0.002%
230	15.005	14.998	15.069	VV	190	4722	0.04%	0.001%
231	15.120	15.069	15.148	PV	274	6363	0.06%	0.002%
232	15.198	15.148	15.251	PV	229	7946	0.07%	0.002%
233	15.302	15.251	15.364	VV	15392	212310	1.90%	0.059%
234	15.368	15.364	15.454	VV	193	4646	0.04%	0.001%
235	15.476	15.454	15.502	PV	284	4346	0.04%	0.001%
236	15.523	15.502	15.560	VV	190	4378	0.04%	0.001%
237	15.624	15.560	15.650	VV	745	15266	0.14%	0.004%
238	15.670	15.650	15.728	VV	506	11345	0.10%	0.003%
239	15.807	15.728	15.914	VV	629777	8400744	75.17%	2.316%
240	15.951	15.914	16.034	VV	244	10923	0.10%	0.003%
241	16.042	16.034	16.078	VV	113	1350	0.01%	0.000%
242	16.111	16.078	16.141	VV	623	10909	0.10%	0.003%
243	16.159	16.141	16.213	VV	345	7263	0.06%	0.002%
244	16.284	16.213	16.361	PV	18209	247935	2.22%	0.068%
245	16.410	16.361	16.431	VV	143	3563	0.03%	0.001%
246	16.492	16.431	16.515	VV	173	6394	0.06%	0.002%

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Manual IntegrationsAPPROVED

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					rteres			
247	16.523	16.515	16.538	VV	93	1089	0.01%	0.000%
248	16.584	16.538	16.605	VV	908	15141		
249	16.630	16.605	16.664	VV	798	18274		
250	16.670	16.664	16.683	VV	438	4151		
251	16.756	16.683	16.821	VV	581775	8094115	72	
252	16.836	16.821	16.883	VV	350	9821		
253	16.898	16.883	16.918	VV	169	2396	0.02%	0.001%
254	16.990	16.918	17.005	VV	326	8252	0.07%	0.002%
255	17.038	17.005	17.068	VV	755	14097	0.13%	0.004%
256	17.084	17.068	17.109	VV	423	6229	0.06%	0.002%
257	17.140	17.109	17.154	PV	232	3759	0.03%	0.001%
258	17.200	17.154	17.254	VV	12340	173033	1.55%	0.048%
259	17.341	17.254	17.361	VV	678	26170	0.23%	0.007%
260	17.429	17.361	17.448	VV	928	39656	0.35%	0.011%
261	17.480	17.448	17.497	VV	1368	31934	0.29%	0.009%
262	17.527	17.497	17.564	VV	6421	109302	0.98%	0.030%
263	17.641	17.564	17.715	VV	559362	7863155	70.36%	2.168%
264	17.729	17.715	17.740	VV	696	9560	0.09%	0.003%
265	17.763	17.740	17.834	VV	763	31686	0.28%	0.009%
266	17.913	17.834	17.948	VV	1260	44467	0.40%	0.012%
267	17.955	17.948	17.994	VV	576	8988	0.08%	0.002%
268	18.019	17.994	18.027	VV	368	5290	0.05%	0.001%
269	18.058	18.027	18.098	VV	5957	96259	0.86%	0.027%
270	18.134	18.098	18.162	VV	563	14449	0.13%	0.004%
271	18.196	18.162	18.254	VV	372	12023	0.11%	0.003%
272	18.259	18.254	18.265	VV	97	393	0.00%	0.000%
273	18.318	18.265	18.344	PV	471	10505	0.09%	0.003%
274	18.365	18.344	18.413	VV	437	7830	0.07%	0.002%
275	18.472	18.413	18.537	PV	529440	7531494	67.40%	2.076%
276	18.548	18.537	18.574	VV	326	5553	0.05%	0.002%
277	18.613	18.574	18.686	VV	462	17539	0.16%	0.005%
278	18.726	18.686	18.748	VV	405	9408	0.08%	0.003%
279	18.765	18.748	18.795	VV	365	6201	0.06%	0.002%
280	18.864	18.795	18.937	VV	4445	77018	0.69%	0.021%
281	19.037	18.937	19.082	VV	2235	60079	0.54%	0.017%
282	19.117	19.082	19.136	VV	570	14012	0.13%	0.004%
283	19.158	19.136	19.172	VV	569	10203	0.09%	0.003%
284	19.254	19.172	19.318	VV	490011	7347512	65.75%	2.026%
285	19.339	19.318	19.384	VV	1224	41027	0.37%	0.011%
286	19.402	19.384	19.433	VV	1181	27591	0.25%	0.008%
287	19.458	19.433	19.467	VV	749	15238	0.14%	0.004%
288	19.493	19.467	19.514	VV	819	21174	0.19%	0.006%
289	19.552	19.514	19.587	VV	3583	77716	0.70%	0.021%
290	19.623	19.587	19.654	VV	2592	49876	0.45%	0.014%
291	19.682	19.654	19.698	VV	887	19753	0.18%	0.005%
292	19.822	19.698	19.936	VV	7818	518481	4.64%	0.143%
293	19.993	19.936	20.028	VV	450107	7064323	63.21%	1.948%
294	20.042	20.028	20.103	VV	6915	183830	1.64%	0.051%
295	20.126	20.103	20.133	VV	2607	44869	0.40%	0.012%
296	20.142	20.133	20.148	VV	2591	23582	0.21%	0.007%
297	20.154	20.148	20.165	VV	2555	25603	0.23%	0.007%
298	20.262	20.165	20.276	VV	2811	169957	1.52%	0.047%
299	20.344	20.276	20.410	VV	5010	263733	2.36%	0.073%

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rteres

300	20.515	20.410	20.582	VV	8621	432843	3.87%	0.119%
301	20.631	20.582	20.647	VV	3081	119163	1	
302	20.715	20.647	20.958	VV	395062	7384095	66	
303	21.039	20.958	21.093	VV	7348	297300	2	
304	21.125	21.093	21.158	VV	3297	102786	0	
305	21.277	21.158	21.443	VV	4014	521735	4	
306	21.455	21.443	21.483	VV	1660	39327	0.35%	0.011%
307	21.499	21.483	21.524	VV	1599	37167	0.33%	0.010%
308	21.601	21.524	21.759	VV	282940	7026570	62.88%	1.937%
309	21.772	21.759	21.781	VV	863	11365	0.10%	0.003%
310	21.793	21.781	21.806	VV	844	11163	0.10%	0.003%
311	21.818	21.806	21.949	VV	774	40666	0.36%	0.011%
312	21.991	21.949	22.005	VV	186	5519	0.05%	0.002%
313	22.031	22.005	22.044	VV	136	2197	0.02%	0.001%

Sum of corrected areas: 362730086

Aliphatic EPH 111424.M Sat Nov 16 09:59:46 2024

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

Report of Analysis

Client:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-4-TPH-6MSD			SDG No.:	P4839
Lab Sample ID:	P4839-22MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.5
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD048771.D	1	11/16/24	11/19/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	6.28		0.34	0.74	mg/kg
Aromatic C12-C16	Aromatic C12-C16	15.1		0.38	1.12	mg/kg
Aromatic C16-C21	Aromatic C16-C21	22.7		1.07	1.86	mg/kg
Aromatic C21-C36	Aromatic C21-C36	37.6		2.23	2.97	mg/kg
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	51.0		40 - 140	102%	SPK: 50
321-60-8	2-Flurobiphenyl (SURR)	50.4		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.6		40 - 140	77%	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:	P4839-22MSD	Acq On:	19 Nov 2024 00:17
Client Sample ID:	EX-4-TPH-6MSD	Operator:	YP/AJ
Data file:	FD048771.D	Misc:	
Instrument:	FID_D	ALS Vial:	72
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.088	5.805	16223595	84.49	200	ug/ml
Aromatic C12-C16	5.806	8.411	39196496	203.662	300	ug/ml
Aromatic C16-C21	8.412	12.674	56704572	305.184	500	ug/ml
Aromatic C21-C36	12.675	18.081	79449037	505.301	800	ug/ml
Aromatic EPH	4.088	18.081	191573700	1100		ug/ml
2-Bromonaphthalene (SURR)	7.366	7.366	8969471	50.95		ug/ml
2-Flurobiphenyl (SURR)	8.217	8.217	5798672	50.35		ug/ml
ortho-Terphenyl (SURR)	11.252	11.252	7428539	38.62		ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
4) S	2-Bromonaphthalene (S...	7.366	8969471	50.946 ug/ml
Spiked Amount	50.000		Recovery =	101.89%
6) S	2-Flurobiphenyl (SURR)	8.217	5798672	50.349 ug/ml
Spiked Amount	50.000 Range	0 - 131	Recovery =	100.70%
11) S	ortho-Terphenyl (SURR)	11.252	7428539	38.623 ug/ml
Spiked Amount	50.000		Recovery =	77.25%
	Target Compounds			
1) T	1,2,3-Trimethylbenzen...	4.189	6923954	36.739 ug/ml
2) T	Naphthalene (C11.7)	5.706	8056151	41.192 ug/ml
3) T	2-Methylnaphthalene (...	6.753	7956887	41.636 ug/ml
5) T	Acenaphthylene (C15.06)	8.020	9254488	47.722 ug/ml
7) T	Acenaphthene (C15.5)	8.316	9889760	51.417 ug/ml
8) T	Flouorene (C16.55)	9.094	9947391	51.849 ug/ml
9) T	Phenanthrene (C19.36)	10.482	10226984	55.793 ug/ml
10) T	Anthracene (C19.43)	10.559	10224393	54.597 ug/ml
12) T	Fluoranthene (C21.85)	12.289	10443203	57.029 ug/mlm
13) T	Pyrene (C20.8)	12.583	10226558	56.565 ug/ml
14) T	Benzo[a]anthracene (C...	14.453	9664307	58.749 ug/ml
15) T	Chrysene (C27.41)	14.497	9525573	54.428 ug/ml
16) T	benzo[b]fluoranthene ...	16.001	9229697	58.744 ug/ml
17) T	Bnezo[k]fluoranthene ...	16.036	9076756	55.619 ug/ml
18) T	Benzo[a]pyrene (C31.34)	16.377	8602414	57.697 ug/ml
19) T	Indeno[1,2,3-cd]pyren...	17.745	8630374	69.865 ug/ml
20) T	Dibenz[a,h]anthracene...	17.782	8113945	51.743 ug/ml
21) T	Benzo[g,h,i]perylene ...	17.997	8210524	57.542 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD111824AR\
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

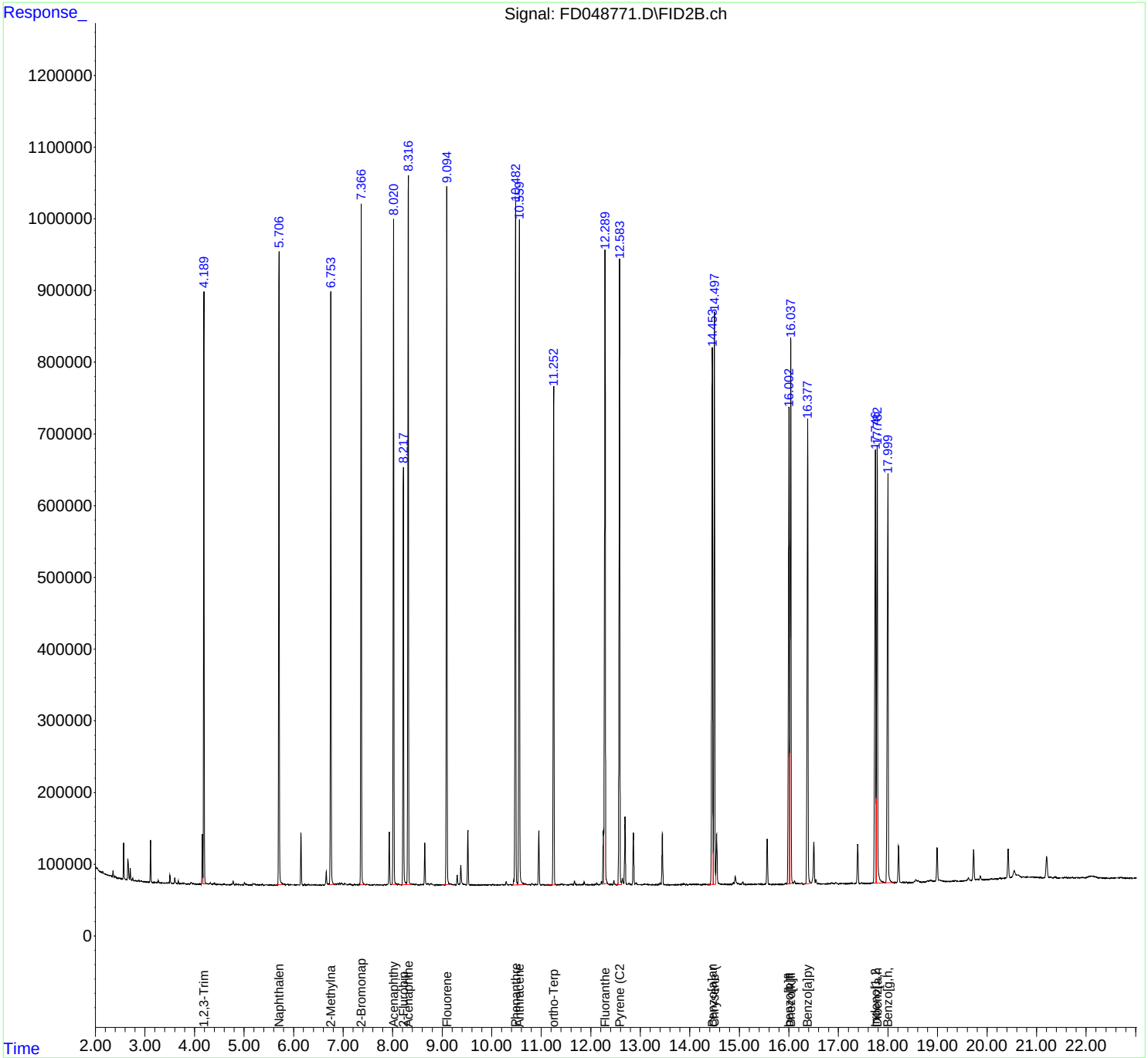
Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 05:56:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:16:25 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_D\Data\FD11182
Data File : FD048771.D
Signal(s) : FID2B.ch
Acq On : 19 Nov 2024 00:17
Sample : P4839-22MSD
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_D\methods\Aromatic EPH 111424.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	4.109	4.094	4.132	VV	477	5090	0.05%	0.002%
2	4.158	4.132	4.171	VV	69922	592720	5.63%	0.289%
3	4.189	4.171	4.257	VV	825648	6961474	66.14%	3.398%
4	4.270	4.257	4.282	VV	1173	13663	0.13%	0.007%
5	4.321	4.282	4.347	VV	2161	43452	0.41%	0.021%
6	4.353	4.347	4.362	VV	578	3936	0.04%	0.002%
7	4.379	4.362	4.395	VV	1616	18200	0.17%	0.009%
8	4.408	4.395	4.434	VV	2469	23474	0.22%	0.011%
9	4.438	4.434	4.467	VV	392	5542	0.05%	0.003%
10	4.478	4.467	4.492	VV	569	5847	0.06%	0.003%
11	4.503	4.492	4.513	VV	602	5472	0.05%	0.003%
12	4.519	4.513	4.544	VV	595	7427	0.07%	0.004%
13	4.566	4.544	4.572	PV	264	2203	0.02%	0.001%
14	4.596	4.572	4.604	VV	866	11308	0.11%	0.006%
15	4.610	4.604	4.645	VV	967	11354	0.11%	0.006%
16	4.659	4.645	4.671	VV	359	2934	0.03%	0.001%
17	4.678	4.671	4.690	VV	216	1714	0.02%	0.001%
18	4.699	4.690	4.717	VV	457	4127	0.04%	0.002%
19	4.730	4.717	4.735	VV	395	2804	0.03%	0.001%
20	4.756	4.735	4.763	VV	997	10670	0.10%	0.005%
21	4.782	4.763	4.824	VV	5254	62135	0.59%	0.030%
22	4.837	4.824	4.849	VV	1327	12929	0.12%	0.006%
23	4.865	4.849	4.885	VV	1077	13200	0.13%	0.006%
24	4.888	4.885	4.929	VV	487	7351	0.07%	0.004%
25	4.936	4.929	4.947	VV	368	2754	0.03%	0.001%
26	4.951	4.947	4.960	VV	327	2102	0.02%	0.001%
27	4.971	4.960	4.990	VV	589	6056	0.06%	0.003%
28	5.009	4.990	5.034	VV	3871	46326	0.44%	0.023%
29	5.040	5.034	5.046	VV	1076	7645	0.07%	0.004%
30	5.049	5.046	5.067	VV	994	9629	0.09%	0.005%
31	5.070	5.067	5.089	VV	571	4933	0.05%	0.002%
32	5.107	5.089	5.112	VV	409	4108	0.04%	0.002%
33	5.116	5.112	5.131	VV	344	2277	0.02%	0.001%
34	5.147	5.131	5.162	VV	356	3735	0.04%	0.002%
35	5.180	5.162	5.201	VV	2300	31042	0.29%	0.015%
36	5.219	5.201	5.238	VV	2217	27183	0.26%	0.013%

Instrument :
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ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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					rteres			
37	5.259	5.238	5.272	VV	874	14100	0.13%	0.007%
38	5.275	5.272	5.319	VV	770	11856		
39	5.324	5.319	5.327	VV	386	1460		
40	5.343	5.327	5.356	VV	1015	11554		
41	5.368	5.356	5.401	VV	1097	15698		
42	5.419	5.401	5.438	VV	668	9010		
43	5.458	5.438	5.488	VV	1070	16716	0.16%	0.008%
44	5.510	5.488	5.527	PV	530	7639	0.07%	0.004%
45	5.542	5.527	5.573	VV	680	12433	0.12%	0.006%
46	5.584	5.573	5.615	VV	412	6778	0.06%	0.003%
47	5.620	5.615	5.630	VV	361	2609	0.02%	0.001%
48	5.664	5.630	5.678	VV	657	12225	0.12%	0.006%
49	5.706	5.678	5.790	VV	886721	8124701	77.19%	3.965%
50	5.812	5.790	5.832	VV	2100	40347	0.38%	0.020%
51	5.884	5.832	5.916	VV	2032	57685	0.55%	0.028%
52	5.932	5.916	5.946	VV	1285	17844	0.17%	0.009%
53	5.951	5.946	5.964	VV	1052	9905	0.09%	0.005%
54	5.969	5.964	5.995	VV	847	11110	0.11%	0.005%
55	6.009	5.995	6.025	VV	1064	13512	0.13%	0.007%
56	6.033	6.025	6.040	VV	771	5919	0.06%	0.003%
57	6.050	6.040	6.054	VV	658	4874	0.05%	0.002%
58	6.076	6.054	6.106	VV	1021	23837	0.23%	0.012%
59	6.115	6.106	6.123	VV	480	4125	0.04%	0.002%
60	6.150	6.123	6.200	VV	73351	719446	6.83%	0.351%
61	6.233	6.200	6.252	VV	1525	24128	0.23%	0.012%
62	6.269	6.252	6.281	VV	868	9885	0.09%	0.005%
63	6.299	6.281	6.317	VV	1619	21724	0.21%	0.011%
64	6.329	6.317	6.355	VV	861	9734	0.09%	0.005%
65	6.370	6.355	6.392	PV	836	11451	0.11%	0.006%
66	6.399	6.392	6.407	VV	565	4225	0.04%	0.002%
67	6.419	6.407	6.443	VV	1167	15665	0.15%	0.008%
68	6.459	6.443	6.480	VV	829	12566	0.12%	0.006%
69	6.486	6.480	6.507	VV	479	5590	0.05%	0.003%
70	6.521	6.507	6.524	VV	631	4875	0.05%	0.002%
71	6.527	6.524	6.532	VV	615	2657	0.03%	0.001%
72	6.537	6.532	6.554	VV	627	4993	0.05%	0.002%
73	6.559	6.554	6.568	VV	234	2064	0.02%	0.001%
74	6.588	6.568	6.611	VV	1039	13625	0.13%	0.007%
75	6.661	6.611	6.699	VV	19427	245279	2.33%	0.120%
76	6.711	6.699	6.722	VV	1956	23474	0.22%	0.011%
77	6.753	6.722	6.830	VV	830167	8020968	76.20%	3.915%
78	6.846	6.830	6.863	VV	2091	33163	0.32%	0.016%
79	6.893	6.863	6.911	VV	2822	49948	0.47%	0.024%
80	6.926	6.911	6.940	VV	3548	41745	0.40%	0.020%
81	6.958	6.940	6.970	VV	3210	45051	0.43%	0.022%
82	6.979	6.970	6.998	VV	2427	31680	0.30%	0.015%
83	7.003	6.998	7.017	VV	1306	12799	0.12%	0.006%
84	7.033	7.017	7.052	VV	3173	43265	0.41%	0.021%
85	7.065	7.052	7.084	VV	1554	23124	0.22%	0.011%
86	7.096	7.084	7.106	VV	1141	12038	0.11%	0.006%
87	7.133	7.106	7.152	VV	1897	35797	0.34%	0.017%
88	7.158	7.152	7.177	VV	1198	11704	0.11%	0.006%
89	7.186	7.177	7.209	VV	436	5649	0.05%	0.003%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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rteres

90	7.231	7.209	7.260	VV	1659	24897	0.24%	0.012%
91	7.280	7.260	7.310	VV	1083	20807		
92	7.326	7.310	7.339	VV	1577	18258		
93	7.367	7.339	7.456	VV	952108	9022624	85	
94	7.487	7.456	7.507	VV	1511	35489		
95	7.512	7.507	7.518	VV	939	6013		
96	7.524	7.518	7.574	VV	1085	18100	0.17%	0.009%
97	7.590	7.574	7.597	VV	523	6305	0.06%	0.003%
98	7.603	7.597	7.610	VV	620	3792	0.04%	0.002%
99	7.631	7.610	7.667	VV	1355	25686	0.24%	0.013%
100	7.682	7.667	7.700	VV	839	12610	0.12%	0.006%
101	7.726	7.700	7.738	VV	717	11998	0.11%	0.006%
102	7.756	7.738	7.780	VV	1073	14650	0.14%	0.007%
103	7.790	7.780	7.802	VV	472	3912	0.04%	0.002%
104	7.809	7.802	7.815	VV	319	2059	0.02%	0.001%
105	7.838	7.815	7.867	VV	1220	21786	0.21%	0.011%
106	7.879	7.867	7.895	VV	1141	13590	0.13%	0.007%
107	7.933	7.895	7.970	VV	74256	796340	7.57%	0.389%
108	7.986	7.970	7.990	VV	1648	13333	0.13%	0.007%
109	8.020	7.990	8.102	VV	929879	9338690	88.72%	4.558%
110	8.115	8.102	8.150	VV	1929	40616	0.39%	0.020%
111	8.162	8.150	8.179	VV	1010	14529	0.14%	0.007%
112	8.217	8.179	8.269	VV	583138	5829587	55.38%	2.845%
113	8.278	8.269	8.285	VV	3233	31326	0.30%	0.015%
114	8.316	8.285	8.382	VV	991832	9956818	94.59%	4.860%
115	8.387	8.382	8.452	VV	1891	54798	0.52%	0.027%
116	8.477	8.452	8.509	VV	1715	39422	0.37%	0.019%
117	8.528	8.509	8.548	VV	1042	16531	0.16%	0.008%
118	8.568	8.548	8.579	VV	967	14880	0.14%	0.007%
119	8.582	8.579	8.589	VV	913	4157	0.04%	0.002%
120	8.608	8.589	8.626	VV	1451	21532	0.20%	0.011%
121	8.650	8.626	8.681	VV	59202	611314	5.81%	0.298%
122	8.685	8.681	8.694	VV	1817	13849	0.13%	0.007%
123	8.714	8.694	8.735	VV	2789	43349	0.41%	0.021%
124	8.763	8.735	8.776	VV	2393	35996	0.34%	0.018%
125	8.790	8.776	8.821	VV	2185	35909	0.34%	0.018%
126	8.834	8.821	8.857	VV	802	8503	0.08%	0.004%
127	8.861	8.857	8.865	VV	317	1016	0.01%	0.000%
128	8.884	8.865	8.911	VV	1154	13384	0.13%	0.007%
129	8.921	8.911	8.929	VV	404	3186	0.03%	0.002%
130	8.941	8.929	8.949	VV	552	5294	0.05%	0.003%
131	8.961	8.949	8.977	VV	704	8488	0.08%	0.004%
132	8.995	8.977	9.005	VV	934	10658	0.10%	0.005%
133	9.021	9.005	9.035	VV	930	12393	0.12%	0.006%
134	9.041	9.035	9.059	VV	627	6904	0.07%	0.003%
135	9.095	9.059	9.157	VV	974064	10021064	95.20%	4.891%
136	9.174	9.157	9.232	VV	2117	54499	0.52%	0.027%
137	9.248	9.232	9.277	VV	1363	21135	0.20%	0.010%
138	9.304	9.277	9.335	VV	14031	171996	1.63%	0.084%
139	9.350	9.335	9.358	VV	1818	21339	0.20%	0.010%
140	9.378	9.358	9.439	VV	28179	371763	3.53%	0.181%
141	9.444	9.439	9.449	VV	1148	6216	0.06%	0.003%

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EX-4-TPH-6MSD

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rteres

142	9.457	9.449	9.492	VV	1389	24179	0.23%	0.012%
143	9.520	9.492	9.574	VV	76693	825295		
144	9.598	9.574	9.637	VV	783	18890		
145	9.644	9.637	9.657	VV	336	2662		
146	9.674	9.657	9.680	VV	272	2422		
147	9.689	9.680	9.720	VV	408	5478		
148	9.739	9.720	9.757	VV	424	6255	0.06%	0.003%
149	9.764	9.757	9.770	VV	245	1315	0.01%	0.001%
150	9.792	9.770	9.802	VV	498	7123	0.07%	0.003%
151	9.806	9.802	9.817	VV	397	3259	0.03%	0.002%
152	9.835	9.817	9.859	VV	618	12440	0.12%	0.006%
153	9.863	9.859	9.877	VV	481	3925	0.04%	0.002%
154	9.891	9.877	9.900	VV	425	5049	0.05%	0.002%
155	9.904	9.900	9.928	VV	557	7851	0.07%	0.004%
156	9.947	9.928	9.978	VV	799	16201	0.15%	0.008%
157	9.982	9.978	9.990	VV	565	3505	0.03%	0.002%
158	10.004	9.990	10.006	VV	516	4406	0.04%	0.002%
159	10.023	10.006	10.047	VV	1574	22840	0.22%	0.011%
160	10.050	10.047	10.083	VV	465	6842	0.06%	0.003%
161	10.095	10.083	10.109	VV	734	8510	0.08%	0.004%
162	10.121	10.109	10.125	VV	672	5784	0.05%	0.003%
163	10.140	10.125	10.147	VV	688	7820	0.07%	0.004%
164	10.153	10.147	10.172	VV	685	7441	0.07%	0.004%
165	10.210	10.172	10.229	VV	1366	25404	0.24%	0.012%
166	10.254	10.229	10.273	VV	865	16456	0.16%	0.008%
167	10.293	10.273	10.327	VV	5093	73353	0.70%	0.036%
168	10.336	10.327	10.351	VV	839	9561	0.09%	0.005%
169	10.382	10.351	10.412	VV	1372	26009	0.25%	0.013%
170	10.447	10.412	10.452	VV	6308	55028	0.52%	0.027%
171	10.483	10.452	10.525	VV	953583	10197289	96.88%	4.977%
172	10.560	10.525	10.667	VV	930305	10278480	97.65%	5.017%
173	10.671	10.667	10.703	VV	1935	32148	0.31%	0.016%
174	10.708	10.703	10.735	VV	1229	19072	0.18%	0.009%
175	10.741	10.735	10.745	VV	1084	5207	0.05%	0.003%
176	10.754	10.745	10.790	VV	1391	23865	0.23%	0.012%
177	10.812	10.790	10.865	VV	2203	55915	0.53%	0.027%
178	10.885	10.865	10.905	VV	1229	20797	0.20%	0.010%
179	10.911	10.905	10.915	VV	603	3522	0.03%	0.002%
180	10.953	10.915	10.999	VV	76028	864029	8.21%	0.422%
181	11.002	10.999	11.008	VV	470	2539	0.02%	0.001%
182	11.033	11.008	11.055	VV	1236	19530	0.19%	0.010%
183	11.065	11.055	11.078	VV	435	4524	0.04%	0.002%
184	11.103	11.078	11.125	VV	539	9203	0.09%	0.004%
185	11.137	11.125	11.164	VV	648	7460	0.07%	0.004%
186	11.252	11.194	11.301	VV	695462	7480977	71.07%	3.651%
187	11.317	11.301	11.324	VV	1042	11017	0.10%	0.005%
188	11.331	11.324	11.349	VV	935	12190	0.12%	0.006%
189	11.354	11.349	11.358	VV	609	2702	0.03%	0.001%
190	11.369	11.358	11.384	VV	911	12216	0.12%	0.006%
191	11.417	11.384	11.458	VV	1917	54572	0.52%	0.027%
192	11.466	11.458	11.496	VV	1058	18544	0.18%	0.009%
193	11.501	11.496	11.509	VV	675	4890	0.05%	0.002%
194	11.520	11.509	11.538	VV	668	9004	0.09%	0.004%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

rteres

195	11.542	11.538	11.557	VV	444	4568	0.04%	0.002%
196	11.580	11.557	11.592	VV	1302	18854		
197	11.606	11.592	11.634	VV	1533	26958		
198	11.672	11.634	11.695	VV	5469	80694		
199	11.706	11.695	11.732	VV	1095	16429		
200	11.737	11.732	11.742	VV	501	2791		
201	11.751	11.742	11.770	VV	793	11088	0.11%	0.005%
202	11.774	11.770	11.789	VV	720	6860	0.07%	0.003%
203	11.796	11.789	11.801	VV	708	4166	0.04%	0.002%
204	11.835	11.801	11.850	VV	1041	24031	0.23%	0.012%
205	11.868	11.850	11.904	VV	4658	66343	0.63%	0.032%
206	11.908	11.904	11.914	VV	812	4671	0.04%	0.002%
207	11.919	11.914	11.939	VV	872	10166	0.10%	0.005%
208	11.945	11.939	11.969	VV	680	9322	0.09%	0.005%
209	11.985	11.969	11.992	VV	653	7137	0.07%	0.003%
210	11.995	11.992	12.007	VV	668	4831	0.05%	0.002%
211	12.022	12.007	12.057	VV	750	17799	0.17%	0.009%
212	12.085	12.057	12.101	VV	975	20024	0.19%	0.010%
213	12.121	12.101	12.154	VV	3012	46686	0.44%	0.023%
214	12.217	12.154	12.230	VV	5206	80988	0.77%	0.040%
215	12.255	12.230	12.261	VV	76017	717645	6.82%	0.350%
216	12.289	12.261	12.372	VV	881983	10526104	100.00%	5.137%
217	12.376	12.372	12.389	VV	1066	10107	0.10%	0.005%
218	12.393	12.389	12.425	VV	1078	18674	0.18%	0.009%
219	12.433	12.425	12.444	VV	748	6752	0.06%	0.003%
220	12.468	12.444	12.501	VV	6242	83797	0.80%	0.041%
221	12.509	12.501	12.519	VV	720	6670	0.06%	0.003%
222	12.523	12.519	12.542	VV	641	7408	0.07%	0.004%
223	12.583	12.542	12.620	VV	875125	10261370	97.48%	5.008%
224	12.640	12.620	12.665	VV	9131	142844	1.36%	0.070%
225	12.692	12.665	12.735	VV	95296	1139194	10.82%	0.556%
226	12.739	12.735	12.749	VV	1129	8421	0.08%	0.004%
227	12.773	12.749	12.812	VV	2881	53241	0.51%	0.026%
228	12.815	12.812	12.820	VV	826	3302	0.03%	0.002%
229	12.824	12.820	12.828	VV	676	2663	0.03%	0.001%
230	12.862	12.828	12.892	VV	72703	874975	8.31%	0.427%
231	12.917	12.892	12.954	VV	3445	62817	0.60%	0.031%
232	12.958	12.954	12.961	VV	601	2629	0.02%	0.001%
233	12.965	12.961	12.972	VV	642	3890	0.04%	0.002%
234	12.982	12.972	12.994	VV	726	8285	0.08%	0.004%
235	13.006	12.994	13.023	VV	704	9734	0.09%	0.005%
236	13.031	13.023	13.042	VV	604	5789	0.05%	0.003%
237	13.051	13.042	13.064	VV	777	8656	0.08%	0.004%
238	13.094	13.064	13.110	VV	1611	31584	0.30%	0.015%
239	13.117	13.110	13.129	VV	978	9990	0.09%	0.005%
240	13.133	13.129	13.181	VV	971	19242	0.18%	0.009%
241	13.214	13.181	13.225	VV	466	9151	0.09%	0.004%
242	13.239	13.225	13.267	VV	599	11534	0.11%	0.006%
243	13.285	13.267	13.310	VV	619	13061	0.12%	0.006%
244	13.318	13.310	13.335	VV	672	5957	0.06%	0.003%
245	13.400	13.335	13.417	VV	3075	52892	0.50%	0.026%
246	13.446	13.417	13.513	VV	72048	871817	8.28%	0.425%

Instrument :
FID_D
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EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/19/2024

					rteres			
247	13.520	13.513	13.525	VV	387	2352	0.02%	0.001%
248	13.539	13.525	13.560	VV	563	7329		
249	13.568	13.560	13.600	VV	223	3208		
250	13.606	13.600	13.625	PV	152	1493		
251	13.634	13.625	13.642	VV	264	1595		
252	13.672	13.642	13.699	VV	461	11187		
253	13.703	13.699	13.727	VV	415	4618	0.04%	0.002%
254	13.739	13.727	13.767	VV	399	6045	0.06%	0.003%
255	13.775	13.767	13.787	VV	505	4898	0.05%	0.002%
256	13.801	13.787	13.824	VV	809	11163	0.11%	0.005%
257	13.833	13.824	13.856	VV	744	12336	0.12%	0.006%
258	13.879	13.856	13.918	VV	1717	33291	0.32%	0.016%
259	13.929	13.918	13.955	VV	539	8917	0.08%	0.004%
260	13.959	13.955	13.962	VV	370	1349	0.01%	0.001%
261	13.975	13.962	13.985	VV	480	5522	0.05%	0.003%
262	14.004	13.985	14.028	VV	1027	16565	0.16%	0.008%
263	14.039	14.028	14.045	VV	550	3950	0.04%	0.002%
264	14.069	14.045	14.117	VV	961	29374	0.28%	0.014%
265	14.121	14.117	14.149	VV	689	10534	0.10%	0.005%
266	14.166	14.149	14.181	VV	605	9266	0.09%	0.005%
267	14.186	14.181	14.201	VV	380	4378	0.04%	0.002%
268	14.215	14.201	14.228	VV	497	5741	0.05%	0.003%
269	14.266	14.234	14.274	VV	492	7696	0.07%	0.004%
270	14.290	14.274	14.299	VV	621	7319	0.07%	0.004%
271	14.307	14.299	14.332	VV	723	10999	0.10%	0.005%
272	14.339	14.332	14.342	VV	386	2189	0.02%	0.001%
273	14.349	14.342	14.368	VV	533	5649	0.05%	0.003%
274	14.381	14.368	14.409	VV	513	8441	0.08%	0.004%
275	14.453	14.409	14.470	VV	750176	9669359	91.86%	4.719%
276	14.497	14.470	14.521	VV	798449	9558352	90.81%	4.665%
277	14.541	14.521	14.631	VV	70672	984113	9.35%	0.480%
278	14.640	14.631	14.655	VV	905	10996	0.10%	0.005%
279	14.659	14.655	14.690	VV	840	12722	0.12%	0.006%
280	14.716	14.690	14.722	VV	782	13723	0.13%	0.007%
281	14.726	14.722	14.745	VV	752	8435	0.08%	0.004%
282	14.777	14.745	14.800	VV	535	14003	0.13%	0.007%
283	14.812	14.800	14.817	VV	459	3879	0.04%	0.002%
284	14.841	14.817	14.855	VV	525	8714	0.08%	0.004%
285	14.876	14.855	14.892	VV	3430	45712	0.43%	0.022%
286	14.916	14.892	15.006	VV	11906	247278	2.35%	0.121%
287	15.011	15.006	15.037	VV	852	12907	0.12%	0.006%
288	15.068	15.037	15.097	VV	3822	64383	0.61%	0.031%
289	15.102	15.097	15.141	VV	581	9247	0.09%	0.005%
290	15.150	15.141	15.160	VV	281	2044	0.02%	0.001%
291	15.165	15.160	15.182	VV	291	2960	0.03%	0.001%
292	15.197	15.182	15.203	VV	497	4665	0.04%	0.002%
293	15.210	15.203	15.238	VV	436	7171	0.07%	0.003%
294	15.255	15.238	15.276	VV	740	12365	0.12%	0.006%
295	15.291	15.276	15.305	VV	538	7213	0.07%	0.004%
296	15.312	15.305	15.332	VV	564	5737	0.05%	0.003%
297	15.347	15.332	15.366	VV	603	9144	0.09%	0.004%
298	15.387	15.366	15.418	VV	891	22177	0.21%	0.011%
299	15.425	15.418	15.431	VV	683	4797	0.05%	0.002%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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rteres

300	15.440	15.431	15.472	VV	892	12451	0.12%	0.006%
301	15.482	15.472	15.500	VV	520	6938		
302	15.560	15.500	15.599	VV	63593	822749		
303	15.612	15.599	15.642	VV	690	11763		
304	15.654	15.642	15.662	VV	241	1968		
305	15.686	15.662	15.694	VV	322	3833		
306	15.702	15.694	15.728	VV	424	5633	0.05%	0.003%
307	15.739	15.728	15.757	PV	255	2167	0.02%	0.001%
308	15.763	15.757	15.783	VV	251	1370	0.01%	0.001%
309	15.818	15.783	15.837	VV	407	6870	0.07%	0.003%
310	15.866	15.847	15.875	PV	330	2581	0.02%	0.001%
311	15.889	15.875	15.899	VV	338	3174	0.03%	0.002%
312	15.929	15.899	15.958	VV	2008	38044	0.36%	0.019%
313	16.002	15.958	16.015	VV	666187	9217980	87.57%	4.499%
314	16.037	16.015	16.093	VV	764057	9191243	87.32%	4.486%
315	16.113	16.093	16.145	VV	4988	83283	0.79%	0.041%
316	16.167	16.145	16.226	VV	1768	51757	0.49%	0.025%
317	16.257	16.226	16.286	VV	1952	36235	0.34%	0.018%
318	16.293	16.286	16.306	VV	604	6477	0.06%	0.003%
319	16.311	16.306	16.320	VV	591	3673	0.03%	0.002%
320	16.326	16.320	16.329	VV	514	2472	0.02%	0.001%
321	16.378	16.329	16.447	VV	649204	8689339	82.55%	4.241%
322	16.502	16.447	16.529	VV	58757	893719	8.49%	0.436%
323	16.544	16.529	16.621	VV	6270	105931	1.01%	0.052%
324	16.629	16.621	16.642	VV	491	4812	0.05%	0.002%
325	16.647	16.642	16.652	VV	429	2068	0.02%	0.001%
326	16.667	16.652	16.674	VV	464	4826	0.05%	0.002%
327	16.700	16.674	16.705	VV	504	7694	0.07%	0.004%
328	16.711	16.705	16.726	VV	462	4565	0.04%	0.002%
329	16.732	16.726	16.736	VV	388	1988	0.02%	0.001%
330	16.741	16.736	16.760	VV	475	4303	0.04%	0.002%
331	16.794	16.760	16.809	VV	621	12532	0.12%	0.006%
332	16.819	16.809	16.841	VV	691	8659	0.08%	0.004%
333	16.867	16.841	16.902	VV	1564	36107	0.34%	0.018%
334	16.908	16.902	16.917	VV	589	4544	0.04%	0.002%
335	16.948	16.917	17.002	VV	2196	44956	0.43%	0.022%
336	17.014	17.002	17.025	PV	260	2846	0.03%	0.001%
337	17.035	17.025	17.045	VV	489	4022	0.04%	0.002%
338	17.066	17.045	17.112	VV	689	17395	0.17%	0.008%
339	17.121	17.112	17.128	VV	484	3517	0.03%	0.002%
340	17.132	17.128	17.157	VV	411	5060	0.05%	0.002%
341	17.162	17.157	17.174	VV	237	2183	0.02%	0.001%
342	17.191	17.174	17.198	VV	439	4313	0.04%	0.002%
343	17.243	17.198	17.257	VV	804	17267	0.16%	0.008%
344	17.278	17.257	17.318	VV	914	20495	0.19%	0.010%
345	17.388	17.318	17.425	VV	55312	760340	7.22%	0.371%
346	17.433	17.425	17.443	VV	475	3470	0.03%	0.002%
347	17.449	17.443	17.453	VV	273	1221	0.01%	0.001%
348	17.474	17.453	17.501	VV	1293	18336	0.17%	0.009%
349	17.523	17.509	17.551	VV	369	4933	0.05%	0.002%
350	17.556	17.551	17.561	VV	300	1221	0.01%	0.001%
351	17.583	17.561	17.597	VV	306	3511	0.03%	0.002%

Instrument :
FID_D
ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 11/19/2024

rteres

352	17.603	17.597	17.626	VV	229	1586	0.02%	0.001%
353	17.648	17.626	17.654	PV	379	2846	0	
354	17.682	17.654	17.695	VV	840	14173	0	
355	17.746	17.695	17.759	VV	600103	8607331	81	
356	17.783	17.759	17.951	VV	608980	8199801	77	
357	17.999	17.951	18.105	VV	570749	8226142	78	
358	18.111	18.105	18.126	VV	482	4240	0.04%	0.002%
359	18.139	18.126	18.149	PV	253	2192	0.02%	0.001%
360	18.171	18.149	18.176	VV	229	2314	0.02%	0.001%

Sum of corrected areas: 204893017

Aromatic EPH 111424.M Tue Nov 19 06:21:25 2024

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

Report of Analysis

Client:			Date Collected:
Project:			Date Received:
Client Sample ID:			SDG No.:
Lab Sample ID:			Matrix:
Analytical Method:	NJEPH		
Sample Wt/Vol:		Units:	Final Vol:
Soil Aliquot Vol:		uL	Test:
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL

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:	ENTACT			Date Collected:	
Project:	North Point			Date Received:	
Client Sample ID:	EX-4-TPH-6MSD			SDG No.:	P4839
Lab Sample ID:	P4839-22MSD			Matrix:	Solid
Analytical Method:	NJEPH			% Solid:	89.5
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
11/16/24 09:30	11/19/24 0:17	PB165032

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	7.66		1	0.42	1.12	mg/kg	FC067812.D
Aliphatic C12-C16	Aliphatic C12-C16	7.36		1	0.27	0.74	mg/kg	FC067812.D
Aliphatic C16-C21	Aliphatic C16-C21	10.6		1	0.34	1.12	mg/kg	FC067812.D
Aliphatic C21-C28	Aliphatic C21-C28	13.8		1	0.89	1.49	mg/kg	FC067812.D
Aliphatic C28-C40	Aliphatic C28-C40	26.0		1	2.01	2.23	mg/kg	FC067812.D
Aromatic C10-C12	Aromatic C10-C12	6.28		1	0.34	0.74	mg/kg	FD048771.D
Aromatic C12-C16	Aromatic C12-C16	15.1		1	0.38	1.12	mg/kg	FD048771.D
Aromatic C16-C21	Aromatic C16-C21	22.7		1	1.07	1.86	mg/kg	FD048771.D
Aromatic C21-C36	Aromatic C21-C36	37.6		1	2.23	2.97	mg/kg	FD048771.D
Total AliphaticEPH	Total AliphaticEPH	65.4			3.93	6.70	mg/kg	
Total AromaticEPH	Total AromaticEPH	81.7			4.01	6.69	mg/kg	
Total EPH	Total EPH	147			7.94	13.4	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:	ENTACT		Date Collected:		
Project:	North Point		Date Received:		
Client Sample ID:	EX-4-TPH-6MSD		SDG No.:	P4839	
Lab Sample ID:	P4839-22MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	89.5	
Sample Wt/Vol:	30.05 Units:	g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH	
Prep Method :					

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067812.D	1	11/16/24	11/19/24	PB165032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	7.66		0.42	1.12	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	7.36		0.27	0.74	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	10.6		0.34	1.12	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	13.8		0.89	1.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.0		2.01	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.3		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:	P4839-22MSD	Acq On:	19 Nov 2024 00:17
Client Sample ID:	P4839-22MSD	Operator:	YP/AJ
Data file:	FC067812.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.172	6.448	17073606	102.982	300	ug/ml
Aliphatic C12-C16	6.449	9.838	16855603	98.927	200	ug/ml
Aliphatic C16-C21	9.839	13.196	24105998	142.116	300	ug/ml
Aliphatic C21-C28	13.197	16.850	29192307	185.607	400	ug/ml
Aliphatic C28-C40	16.851	21.691	42350168	349.68	600	ug/ml
Aliphatic EPH	3.172	21.691	129577682	879.313		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.929	12.929	5562605	38.32		ug/ml
Aliphatic C9-C28	3.172	16.850	87227514	529.632	1200	ug/ml

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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

	Compound	R.T.	Response	Conc Units
	System Monitoring Compounds			
12) S	1-chlorooctadecane (S...	12.929	5562605	38.320 ug/ml
Spiked Amount	50.000		Recovery =	76.64%
	Target Compounds			
1) T	n-Nonane (C9)	3.273	4074678	24.981 ug/ml
2) T	n-Decane (C10)	4.335	5204612	31.385 ug/ml
4) T	n-Dodecane (C12)	6.349	6253642	37.129 ug/mlm
6) T	n-Tetradecane (C14)	8.141	7017284	41.901 ug/ml
7) T	n-Hexadecane (C16)	9.740	7640714	44.090 ug/ml
8) T	n-Octadecane (C18)	11.180	7979596	45.354 ug/ml
10) T	n-Eicosane (C20)	12.488	7913424	46.996 ug/ml
11) T	n-Heneicosane (C21)	13.099	7529880	45.764 ug/ml
13) T	n-Docosane (C22)	13.684	7418701	45.555 ug/ml
14) T	n-Tetracosane (C24)	14.785	7224777	45.047 ug/ml
15) T	n-Hexacosane (C26)	15.804	6985464	45.108 ug/ml
16) T	n-Octacosane (C28)	16.752	6781674	44.905 ug/ml
17) T	n-Tricontane (C30)	17.638	6578646	42.967 ug/ml
18) T	n-Dotriacontane (C32)	18.469	6357935	43.049 ug/ml
19) T	n-Tetratriacontane (C34)	19.253	6213967	49.266 ug/ml
20) T	n-Hexatriacontane (C36)	19.990	6022850	57.587 ug/ml
21) T	n-Octatriacontane (C38)	20.713	5944064	60.850 ug/ml
22) T	n-Tetracontane (C40)	21.598	6006906	61.630 ug/ml

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC111824AL\
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Operator : YP/AJ
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

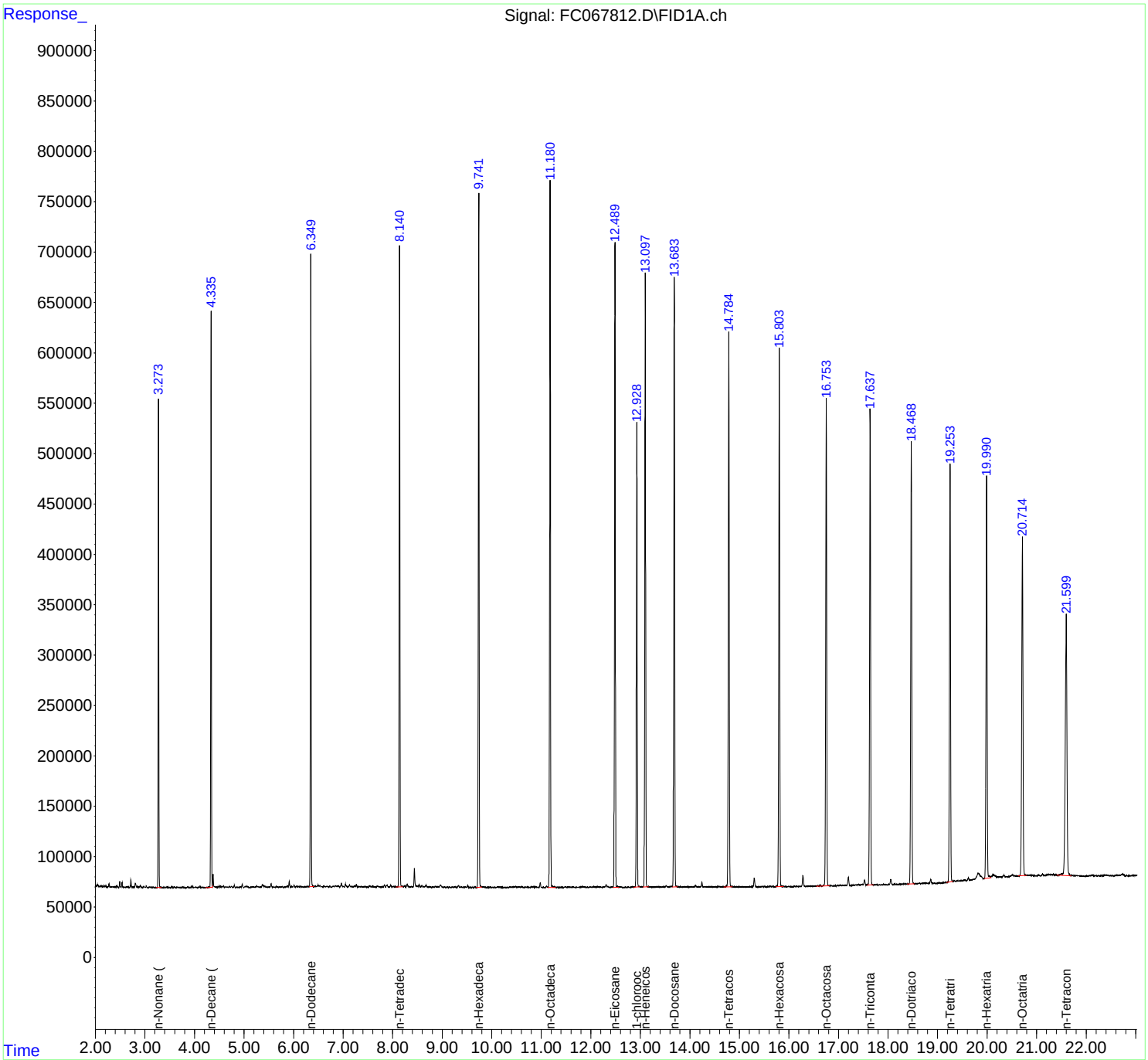
Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Integration File: sample.E
Quant Time: Nov 19 04:55:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.M
Quant Title : GC Extractables
QLast Update : Thu Nov 14 14:13:15 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC11182
Data File : FC067812.D
Signal(s) : FID1A.ch
Acq On : 19 Nov 2024 00:17
Sample : P4839-22MSD
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 111424.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	3.273	3.225	3.351	BV	481292	4079293	51.13%	3.016%
2	3.369	3.351	3.381	VV	269	2570	0.03%	0.002%
3	3.396	3.381	3.435	VV	541	8646	0.11%	0.006%
4	3.449	3.435	3.461	VV	413	4907	0.06%	0.004%
5	3.473	3.461	3.501	VV	515	5903	0.07%	0.004%
6	3.547	3.501	3.568	VV	726	12101	0.15%	0.009%
7	3.596	3.568	3.621	VV	636	11645	0.15%	0.009%
8	3.645	3.621	3.687	VV	494	13372	0.17%	0.010%
9	3.714	3.687	3.747	VV	412	11094	0.14%	0.008%
10	3.762	3.747	3.798	VV	561	9069	0.11%	0.007%
11	3.808	3.798	3.824	VV	271	2422	0.03%	0.002%
12	3.857	3.824	3.871	PV	505	8218	0.10%	0.006%
13	3.876	3.871	3.908	VV	416	4739	0.06%	0.004%
14	3.937	3.908	3.951	VV	1141	14598	0.18%	0.011%
15	3.964	3.951	3.985	VV	1341	14196	0.18%	0.010%
16	3.999	3.985	4.018	VV	546	7894	0.10%	0.006%
17	4.031	4.018	4.053	VV	928	10481	0.13%	0.008%
18	4.110	4.053	4.127	VV	845	20347	0.26%	0.015%
19	4.140	4.127	4.168	VV	541	9053	0.11%	0.007%
20	4.177	4.168	4.215	VV	443	6108	0.08%	0.005%
21	4.250	4.215	4.271	VV	676	11330	0.14%	0.008%
22	4.288	4.271	4.308	VV	515	8981	0.11%	0.007%
23	4.335	4.308	4.360	VV	566947	5201675	65.19%	3.846%
24	4.375	4.360	4.424	VV	13463	148720	1.86%	0.110%
25	4.440	4.424	4.461	VV	714	13398	0.17%	0.010%
26	4.502	4.461	4.517	VV	1459	30227	0.38%	0.022%
27	4.531	4.517	4.543	VV	1465	17356	0.22%	0.013%
28	4.556	4.543	4.572	VV	1554	18381	0.23%	0.014%
29	4.587	4.572	4.603	VV	2248	23741	0.30%	0.018%
30	4.615	4.603	4.628	VV	916	10618	0.13%	0.008%
31	4.643	4.628	4.651	VV	785	9885	0.12%	0.007%
32	4.661	4.651	4.674	VV	845	9430	0.12%	0.007%
33	4.706	4.674	4.723	VV	1262	23092	0.29%	0.017%
34	4.744	4.723	4.781	VV	1258	25973	0.33%	0.019%
35	4.802	4.781	4.835	VV	2365	32178	0.40%	0.024%
36	4.851	4.835	4.869	VV	547	9066	0.11%	0.007%

Instrument :
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ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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rteres

37	4.890	4.869	4.906	VV	599	9401	0.12%	0.007%
38	4.965	4.906	4.996	VV	3524	64356		
39	5.020	4.996	5.035	VV	1529	19088		
40	5.048	5.035	5.062	VV	1448	16492		
41	5.073	5.062	5.115	VV	973	21151		
42	5.139	5.115	5.149	VV	633	10795		
43	5.165	5.149	5.211	VV	808	24099	0.30%	0.018%
44	5.227	5.211	5.238	VV	729	9648	0.12%	0.007%
45	5.257	5.238	5.273	VV	2087	25616	0.32%	0.019%
46	5.284	5.273	5.338	VV	1120	28690	0.36%	0.021%
47	5.368	5.338	5.378	VV	2964	37200	0.47%	0.028%
48	5.389	5.378	5.453	VV	2741	65639	0.82%	0.049%
49	5.460	5.453	5.474	VV	730	7947	0.10%	0.006%
50	5.488	5.474	5.517	VV	856	15912	0.20%	0.012%
51	5.546	5.517	5.578	VV	3947	55739	0.70%	0.041%
52	5.615	5.578	5.636	VV	779	23136	0.29%	0.017%
53	5.655	5.636	5.692	VV	1053	25789	0.32%	0.019%
54	5.715	5.692	5.744	VV	908	21657	0.27%	0.016%
55	5.772	5.744	5.801	VV	1175	26217	0.33%	0.019%
56	5.820	5.801	5.839	VV	880	14719	0.18%	0.011%
57	5.875	5.839	5.892	VV	1707	33617	0.42%	0.025%
58	5.913	5.892	5.945	VV	6152	81541	1.02%	0.060%
59	5.961	5.945	5.981	VV	1290	21627	0.27%	0.016%
60	6.009	5.981	6.033	VV	2246	40341	0.51%	0.030%
61	6.065	6.033	6.078	VV	1389	30078	0.38%	0.022%
62	6.093	6.078	6.118	VV	1284	25749	0.32%	0.019%
63	6.154	6.118	6.173	VV	1422	34726	0.44%	0.026%
64	6.180	6.173	6.202	VV	823	13096	0.16%	0.010%
65	6.228	6.202	6.245	VV	1295	25358	0.32%	0.019%
66	6.272	6.245	6.288	VV	1449	28841	0.36%	0.021%
67	6.300	6.288	6.314	VV	1351	18153	0.23%	0.013%
68	6.349	6.314	6.415	VV	621306	6316774	79.17%	4.671%
69	6.433	6.415	6.451	VV	1795	29707	0.37%	0.022%
70	6.496	6.451	6.517	VV	2583	63147	0.79%	0.047%
71	6.533	6.517	6.555	VV	2369	36928	0.46%	0.027%
72	6.569	6.555	6.592	VV	1196	20765	0.26%	0.015%
73	6.613	6.592	6.641	VV	1299	30247	0.38%	0.022%
74	6.674	6.641	6.694	VV	1641	36634	0.46%	0.027%
75	6.709	6.694	6.716	VV	936	11397	0.14%	0.008%
76	6.731	6.716	6.761	VV	1221	26165	0.33%	0.019%
77	6.801	6.761	6.822	VV	1442	37579	0.47%	0.028%
78	6.841	6.822	6.854	VV	2031	28790	0.36%	0.021%
79	6.867	6.854	6.880	VV	1674	23412	0.29%	0.017%
80	6.903	6.880	6.930	VV	1769	40414	0.51%	0.030%
81	6.966	6.930	7.024	VV	4220	91110	1.14%	0.067%
82	7.048	7.024	7.088	VV	3426	65823	0.82%	0.049%
83	7.101	7.088	7.111	VV	1164	13452	0.17%	0.010%
84	7.129	7.111	7.161	VV	2978	50834	0.64%	0.038%
85	7.176	7.161	7.201	VV	1048	22912	0.29%	0.017%
86	7.233	7.201	7.247	VV	1414	32085	0.40%	0.024%
87	7.269	7.247	7.295	VV	3348	52683	0.66%	0.039%
88	7.334	7.295	7.344	VV	1134	28737	0.36%	0.021%
89	7.357	7.344	7.378	VV	1277	20137	0.25%	0.015%

Instrument :
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EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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					rteres			
90	7.401	7.378	7.414	VV	897	18030	0.23%	0.013%
91	7.442	7.414	7.507	VV	1226	47106		
92	7.529	7.507	7.543	VV	1704	24737		
93	7.554	7.543	7.625	VV	1346	49108		
94	7.644	7.625	7.662	VV	863	16855		
95	7.695	7.662	7.713	VV	1595	32875		
96	7.744	7.713	7.768	VV	1076	28254	0.35%	0.021%
97	7.791	7.768	7.807	VV	947	19308	0.24%	0.014%
98	7.835	7.807	7.855	VV	2733	43984	0.55%	0.033%
99	7.889	7.855	7.917	VV	2739	57477	0.72%	0.043%
100	7.960	7.917	7.989	VV	2614	54848	0.69%	0.041%
101	8.014	7.989	8.030	VV	1146	25503	0.32%	0.019%
102	8.046	8.030	8.068	VV	1522	24921	0.31%	0.018%
103	8.095	8.068	8.104	VV	863	17365	0.22%	0.013%
104	8.141	8.104	8.207	VV	640141	7068650	88.59%	5.227%
105	8.242	8.207	8.268	VV	2117	48443	0.61%	0.036%
106	8.295	8.268	8.318	VV	3610	54890	0.69%	0.041%
107	8.327	8.318	8.361	VV	1003	21560	0.27%	0.016%
108	8.375	8.361	8.413	VV	1043	25525	0.32%	0.019%
109	8.441	8.413	8.508	VV	19080	256988	3.22%	0.190%
110	8.537	8.508	8.570	VV	2959	58435	0.73%	0.043%
111	8.591	8.570	8.615	VV	2331	37281	0.47%	0.028%
112	8.628	8.615	8.640	VV	1150	15726	0.20%	0.012%
113	8.675	8.640	8.723	VV	2209	58076	0.73%	0.043%
114	8.745	8.723	8.772	VV	781	17262	0.22%	0.013%
115	8.793	8.772	8.809	VV	610	10341	0.13%	0.008%
116	8.821	8.809	8.838	VV	525	8035	0.10%	0.006%
117	8.858	8.838	8.881	VV	1448	24992	0.31%	0.018%
118	8.895	8.881	8.909	VV	1199	15245	0.19%	0.011%
119	8.917	8.909	8.941	VV	785	14542	0.18%	0.011%
120	8.971	8.941	9.026	VV	2323	60190	0.75%	0.045%
121	9.046	9.026	9.070	VV	800	13007	0.16%	0.010%
122	9.095	9.070	9.128	VV	471	9562	0.12%	0.007%
123	9.144	9.128	9.158	VV	362	5230	0.07%	0.004%
124	9.198	9.158	9.211	VV	474	11617	0.15%	0.009%
125	9.217	9.211	9.231	VV	434	4067	0.05%	0.003%
126	9.260	9.231	9.300	VV	986	20073	0.25%	0.015%
127	9.327	9.300	9.361	VV	2132	37378	0.47%	0.028%
128	9.377	9.361	9.413	VV	917	14545	0.18%	0.011%
129	9.423	9.413	9.441	VV	424	4960	0.06%	0.004%
130	9.469	9.441	9.493	VV	774	14716	0.18%	0.011%
131	9.517	9.493	9.548	VV	2561	30743	0.39%	0.023%
132	9.576	9.548	9.595	VV	299	4183	0.05%	0.003%
133	9.607	9.595	9.622	VV	155	1943	0.02%	0.001%
134	9.657	9.622	9.696	VV	588	12813	0.16%	0.009%
135	9.740	9.696	9.881	VV	697421	7680963	96.26%	5.680%
136	9.908	9.881	9.941	VV	318	7845	0.10%	0.006%
137	9.962	9.941	9.981	VV	592	7592	0.10%	0.006%
138	10.013	9.981	10.032	VV	223	3923	0.05%	0.003%
139	10.058	10.032	10.098	PV	290	7488	0.09%	0.006%
140	10.126	10.098	10.144	VV	805	13422	0.17%	0.010%
141	10.161	10.144	10.186	VV	529	9165	0.11%	0.007%

Instrument :
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ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

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rteres

142	10.217	10.186	10.235	VV	329	6413	0.08%	0.005%
143	10.257	10.235	10.299	VV	219	5182		
144	10.335	10.299	10.351	VV	353	5811		
145	10.368	10.351	10.388	VV	423	7729		
146	10.407	10.388	10.437	VV	553	14815		
147	10.447	10.437	10.457	VV	589	5908		
148	10.474	10.457	10.514	VV	917	20012	0.25%	0.015%
149	10.544	10.514	10.576	VV	646	17107	0.21%	0.013%
150	10.601	10.576	10.639	VV	1057	18823	0.24%	0.014%
151	10.645	10.639	10.652	VV	217	1427	0.02%	0.001%
152	10.666	10.652	10.685	VV	222	3918	0.05%	0.003%
153	10.691	10.685	10.708	VV	311	3133	0.04%	0.002%
154	10.727	10.708	10.770	VV	652	14372	0.18%	0.011%
155	10.799	10.770	10.823	VV	1014	17472	0.22%	0.013%
156	10.846	10.823	10.872	VV	1072	16969	0.21%	0.013%
157	10.897	10.872	10.915	VV	581	10700	0.13%	0.008%
158	10.925	10.915	10.950	VV	327	4730	0.06%	0.003%
159	10.980	10.950	11.022	VV	4776	60330	0.76%	0.045%
160	11.038	11.022	11.085	VV	174	3021	0.04%	0.002%
161	11.107	11.085	11.138	PV	1345	19473	0.24%	0.014%
162	11.180	11.138	11.256	VV	702160	7978995	100.00%	5.900%
163	11.268	11.256	11.315	VV	704	13624	0.17%	0.010%
164	11.330	11.315	11.355	VV	249	3556	0.04%	0.003%
165	11.390	11.355	11.427	VV	191	4178	0.05%	0.003%
166	11.487	11.427	11.512	VV	1000	18173	0.23%	0.013%
167	11.530	11.512	11.548	VV	309	5361	0.07%	0.004%
168	11.564	11.548	11.608	VV	557	11351	0.14%	0.008%
169	11.632	11.608	11.678	VV	566	14349	0.18%	0.011%
170	11.745	11.678	11.758	VV	296	9803	0.12%	0.007%
171	11.838	11.758	11.865	VV	917	31846	0.40%	0.024%
172	11.888	11.865	11.908	VV	371	7476	0.09%	0.006%
173	11.934	11.908	11.958	VV	315	6497	0.08%	0.005%
174	11.981	11.958	11.995	VV	353	6490	0.08%	0.005%
175	11.998	11.995	12.023	VV	363	4395	0.06%	0.003%
176	12.058	12.023	12.101	VV	873	23762	0.30%	0.018%
177	12.122	12.101	12.151	VV	684	15556	0.19%	0.012%
178	12.172	12.151	12.238	VV	613	17976	0.23%	0.013%
179	12.309	12.238	12.335	VV	2741	54009	0.68%	0.040%
180	12.344	12.335	12.375	VV	1002	13236	0.17%	0.010%
181	12.423	12.375	12.445	VV	957	14959	0.19%	0.011%
182	12.488	12.445	12.595	VV	639596	7931298	99.40%	5.865%
183	12.600	12.595	12.698	VV	388	9452	0.12%	0.007%
184	12.735	12.698	12.748	PV	271	4415	0.06%	0.003%
185	12.760	12.748	12.795	VV	273	4582	0.06%	0.003%
186	12.833	12.795	12.864	VV	775	14434	0.18%	0.011%
187	12.929	12.864	13.026	VV	453357	5606334	70.26%	4.146%
188	13.039	13.026	13.056	VV	549	8597	0.11%	0.006%
189	13.099	13.056	13.215	VV	611109	7570848	94.88%	5.598%
190	13.224	13.215	13.274	VV	384	9616	0.12%	0.007%
191	13.308	13.274	13.325	VV	491	10727	0.13%	0.008%
192	13.368	13.325	13.417	VV	501	18437	0.23%	0.014%
193	13.438	13.417	13.458	VV	343	6209	0.08%	0.005%
194	13.471	13.458	13.495	VV	624	9576	0.12%	0.007%

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EX-4-TPH-6MSD

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rteres

195	13.523	13.495	13.563	VV	1641	28325	0.35%	0.021%
196	13.575	13.563	13.600	VV	321	6054		
197	13.627	13.600	13.643	VV	1008	15839		
198	13.684	13.643	13.766	VV	608928	7446863	93	
199	13.773	13.766	13.795	VV	480	6477		
200	13.802	13.795	13.845	VV	352	6832		
201	13.899	13.845	13.955	VV	298	14381	0.18%	0.011%
202	13.972	13.955	13.991	VV	223	3716	0.05%	0.003%
203	14.014	13.991	14.056	VV	258	7707	0.10%	0.006%
204	14.079	14.056	14.083	VV	228	3063	0.04%	0.002%
205	14.115	14.083	14.148	VV	1616	27361	0.34%	0.020%
206	14.241	14.148	14.285	VV	4812	72969	0.91%	0.054%
207	14.306	14.285	14.357	VV	403	12371	0.16%	0.009%
208	14.380	14.357	14.421	VV	403	10886	0.14%	0.008%
209	14.443	14.421	14.458	VV	274	4655	0.06%	0.003%
210	14.485	14.458	14.511	VV	263	7158	0.09%	0.005%
211	14.560	14.511	14.608	VV	385	15122	0.19%	0.011%
212	14.622	14.608	14.658	VV	330	6641	0.08%	0.005%
213	14.665	14.658	14.681	VV	193	2419	0.03%	0.002%
214	14.785	14.681	14.898	VV	548457	7254673	90.92%	5.365%
215	14.904	14.898	14.916	VV	249	1604	0.02%	0.001%
216	14.956	14.916	14.970	VV	220	4746	0.06%	0.004%
217	14.986	14.970	15.005	VV	235	3253	0.04%	0.002%
218	15.024	15.005	15.041	VV	187	2328	0.03%	0.002%
219	15.117	15.041	15.147	VV	182	5199	0.07%	0.004%
220	15.207	15.147	15.231	PV	274	4277	0.05%	0.003%
221	15.299	15.231	15.411	PV	8755	125000	1.57%	0.092%
222	15.481	15.411	15.498	PV	279	4719	0.06%	0.003%
223	15.517	15.498	15.538	VV	132	1959	0.02%	0.001%
224	15.548	15.538	15.561	VV	151	1112	0.01%	0.001%
225	15.589	15.561	15.601	VV	238	3568	0.04%	0.003%
226	15.619	15.601	15.650	VV	429	8996	0.11%	0.007%
227	15.680	15.650	15.731	VV	317	9362	0.12%	0.007%
228	15.804	15.731	15.912	VV	522824	6994905	87.67%	5.172%
229	15.922	15.912	15.931	VV	190	1901	0.02%	0.001%
230	15.935	15.931	15.957	VV	226	2172	0.03%	0.002%
231	15.977	15.957	16.028	VV	182	6555	0.08%	0.005%
232	16.045	16.028	16.066	VV	104	1624	0.02%	0.001%
233	16.109	16.066	16.133	PV	399	7994	0.10%	0.006%
234	16.158	16.133	16.211	VV	359	7323	0.09%	0.005%
235	16.282	16.211	16.352	PV	10737	164155	2.06%	0.121%
236	16.361	16.352	16.380	VV	132	1636	0.02%	0.001%
237	16.394	16.380	16.415	VV	173	2147	0.03%	0.002%
238	16.441	16.415	16.468	VV	248	4274	0.05%	0.003%
239	16.502	16.468	16.547	VV	187	5183	0.06%	0.004%
240	16.582	16.547	16.603	VV	526	8825	0.11%	0.007%
241	16.633	16.603	16.684	VV	710	20552	0.26%	0.015%
242	16.752	16.684	16.817	VV	477857	6767631	84.82%	5.004%
243	16.831	16.817	16.926	VV	369	11230	0.14%	0.008%
244	16.980	16.926	17.007	VV	327	8619	0.11%	0.006%
245	17.041	17.007	17.062	VV	493	11254	0.14%	0.008%
246	17.086	17.062	17.117	VV	475	9141	0.11%	0.007%

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

				rteres				
247	17.198	17.117	17.245	VV	8311	137742	1.73%	0.102%
248	17.254	17.245	17.268	VV	93	1489		
249	17.308	17.268	17.335	VV	514	13554		
250	17.364	17.335	17.378	VV	586	13130		
251	17.403	17.378	17.444	VV	699	23993		
252	17.480	17.444	17.496	VV	988	23220		
253	17.525	17.496	17.565	VV	5272	88148	1.10%	0.065%
254	17.638	17.565	17.743	VV	470884	6611872	82.87%	4.889%
255	17.767	17.743	17.835	VV	468	14204	0.18%	0.011%
256	17.910	17.835	17.938	PV	559	13516	0.17%	0.010%
257	17.947	17.938	17.996	VV	287	4924	0.06%	0.004%
258	18.056	17.996	18.095	VV	5388	88653	1.11%	0.066%
259	18.135	18.095	18.161	VV	618	12657	0.16%	0.009%
260	18.171	18.161	18.178	VV	187	1481	0.02%	0.001%
261	18.202	18.178	18.210	VV	168	2929	0.04%	0.002%
262	18.270	18.210	18.295	VV	301	11463	0.14%	0.008%
263	18.317	18.295	18.341	VV	509	10544	0.13%	0.008%
264	18.364	18.341	18.399	VV	403	9601	0.12%	0.007%
265	18.469	18.399	18.538	VV	436264	6383444	80.00%	4.720%
266	18.548	18.538	18.578	VV	452	9379	0.12%	0.007%
267	18.615	18.578	18.678	VV	492	22575	0.28%	0.017%
268	18.722	18.678	18.743	VV	653	17870	0.22%	0.013%
269	18.767	18.743	18.807	VV	566	15290	0.19%	0.011%
270	18.863	18.807	18.941	VV	4066	75551	0.95%	0.056%
271	18.949	18.941	18.965	PV	93	935	0.01%	0.001%
272	19.036	18.965	19.075	VV	541	12664	0.16%	0.009%
273	19.111	19.075	19.130	PV	385	8190	0.10%	0.006%
274	19.162	19.130	19.172	VV	427	8941	0.11%	0.007%
275	19.253	19.172	19.318	VV	406558	6286744	78.79%	4.649%
276	19.338	19.318	19.370	VV	1680	46287	0.58%	0.034%
277	19.407	19.370	19.428	VV	1602	48816	0.61%	0.036%
278	19.489	19.428	19.509	VV	1521	68319	0.86%	0.051%
279	19.548	19.509	19.585	VV	2077	77121	0.97%	0.057%
280	19.622	19.585	19.653	VV	3659	95939	1.20%	0.071%
281	19.819	19.653	19.938	VV	7961	669439	8.39%	0.495%
282	19.990	19.938	20.071	VV	401511	6234659	78.14%	4.610%
283	20.129	20.071	20.233	VV	5911	433505	5.43%	0.321%
284	20.248	20.233	20.255	VV	3351	44736	0.56%	0.033%
285	20.263	20.255	20.278	VV	3338	44321	0.56%	0.033%
286	20.339	20.278	20.381	VV	5140	231835	2.91%	0.171%
287	20.396	20.381	20.418	VV	3416	73298	0.92%	0.054%
288	20.514	20.418	20.588	VV	4846	387431	4.86%	0.286%
289	20.609	20.588	20.617	VV	3602	62366	0.78%	0.046%
290	20.713	20.617	20.801	VV	341085	6345517	79.53%	4.692%
291	20.810	20.801	20.838	VV	3876	82366	1.03%	0.061%
292	20.859	20.838	20.988	VV	3664	292986	3.67%	0.217%
293	21.035	20.988	21.083	VV	3465	171273	2.15%	0.127%
294	21.120	21.083	21.161	VV	3823	146103	1.83%	0.108%
295	21.249	21.161	21.265	VV	3448	193997	2.43%	0.143%
296	21.277	21.265	21.294	VV	3315	56144	0.70%	0.042%
297	21.312	21.294	21.437	VV	3302	243705	3.05%	0.180%
298	21.598	21.437	21.801	VV	259176	6346288	79.54%	4.693%
299	21.817	21.801	21.955	VV	926	48310	0.61%	0.036%

Instrument :
FID_C
ClientSampleId :
EX-4-TPH-6MSD

rteres

300	21.977	21.955	21.992	VV	161	1924	0.02%	0.001%	

Sum of corrected areas: 1352

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 11/19/2024
Supervised By :Ankita Jodhani 11/19/2024

Aliphatic EPH 111424.M Tue Nov 19 05:25:50 2024

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Manual Integration Report

Sequence:	FC111424AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
5 PPM ALIPHATIC HC	FC067752.D	n-Hexatriacontane (C36)	yogesh	11/15/2024 9:29:46 AM	Ankita	11/15/2024 10:13:22	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC111524AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4839-07MS	FC067776.D	n-Dodecane (C12)	yogesh	11/18/2024 10:39:46 AM	Ankita	11/18/2024 10:46:55	Peak Integrated by Software
P4839-07MS	FC067776.D	n-Tetradecane (C14)	yogesh	11/18/2024 10:39:46 AM	Ankita	11/18/2024 10:46:55	Peak Integrated by Software
P4839-07MSD	FC067777.D	n-Dodecane (C12)	yogesh	11/18/2024 10:39:48 AM	Ankita	11/18/2024 10:46:57	Peak Integrated by Software
P4839-07MSD	FC067777.D	n-Nonane (C9)	yogesh	11/18/2024 10:39:48 AM	Ankita	11/18/2024 10:46:57	Peak Integrated by Software
P4839-07MSD	FC067777.D	n-Tetradecane (C14)	yogesh	11/18/2024 10:39:48 AM	Ankita	11/18/2024 10:46:57	Peak Integrated by Software
P4849-01MS	FC067792.D	n-Octatriacontane (C38)	yogesh	11/16/2024 11:06:29 AM	Ankita	11/18/2024 10:46:59	Peak Integrated by Software

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Manual Integration Report

Sequence:	FC111824AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4839-21	FC067803.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:13:54 AM	Ankita	11/19/2024 4:48:38	Peak Integrated by Software
PB165032BS	FC067808.D	n-Tetracontane (C40)	yogesh	11/19/2024 8:13:55 AM	Ankita	11/19/2024 4:48:41	Peak Integrated by Software
P4839-22MSD	FC067812.D	n-Dodecane (C12)	yogesh	11/19/2024 8:13:57 AM	Ankita	11/19/2024 4:48:42	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD111424AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM AROMATIC HC	FD048732.D	Acenaphthylene (C15.06)	yogesh	11/15/2024 9:30:06 AM	Ankita	11/15/2024 10:08:28	Peak Integrated by Software
5 PPM AROMATIC HC	FD048733.D	Acenaphthylene (C15.06)	yogesh	11/15/2024 9:30:08 AM	Ankita	11/15/2024 10:08:30	Peak Integrated by Software

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Manual Integration Report

Sequence:	FD111524AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	FD111824AR	Instrument	FID_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM AROMATIC HC	FD048757.D	benzo[b]fluoranthene (C30.41)	yogesh	11/19/2024 9:14:39 AM	Ankita	11/19/2024 4:49:00	Peak Integrated by Software
20 PPM AROMATIC HC	FD048757.D	Bnezo[k]fluoranthene (C30.14)	yogesh	11/19/2024 9:14:39 AM	Ankita	11/19/2024 4:49:00	Peak Integrated by Software
P4839-21	FD048762.D	2-Bromonaphthalene (SURR)	yogesh	11/19/2024 9:14:42 AM	Ankita	11/19/2024 4:49:01	Peak Integrated by Software
PB165032BS	FD048767.D	Fluoranthene (C21.85)	yogesh	11/19/2024 9:14:43 AM	Ankita	11/19/2024 4:49:03	Peak Integrated by Software
PB165032BSD	FD048768.D	Fluoranthene (C21.85)	yogesh	11/19/2024 9:14:44 AM	Ankita	11/19/2024 4:49:04	Peak Integrated by Software
P4839-22MS	FD048770.D	1,2,3-Trimethylbenzene (C10.1)	yogesh	11/19/2024 9:14:46 AM	Ankita	11/19/2024 4:49:05	Peak Integrated by Software
P4839-22MS	FD048770.D	Fluoranthene (C21.85)	yogesh	11/19/2024 9:14:46 AM	Ankita	11/19/2024 4:49:05	Peak Integrated by Software
P4839-22MSD	FD048771.D	Fluoranthene (C21.85)	yogesh	11/19/2024 9:14:48 AM	Ankita	11/19/2024 4:49:07	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE110724AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FE051078.D	A~2-methylnaphthalene (C12.89)	yogesh	11/7/2024 8:51:03 AM	Ankita	11/7/2024 8:56:20	Peak Integrated by Software
5 PPM ALIPHATIC HC	FE051079.D	n-Tetracontane (C40)	yogesh	11/7/2024 8:51:04 AM	Ankita	11/7/2024 8:56:22	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE111524AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4836-03DL	FE051253.D	1-chlorooctadecane (SURR)	yogesh	11/18/2024 10:40:16 AM	Ankita	11/18/2024 10:47:24	Peak Integrated by Software
P4836-03DL	FE051253.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 10:40:16 AM	Ankita	11/18/2024 10:47:24	Peak Integrated by Software
P4836-03DL2	FE051254.D	1-chlorooctadecane (SURR)	yogesh	11/18/2024 10:40:18 AM	Ankita	11/18/2024 10:47:26	Peak Integrated by Software
P4836-03DL2	FE051254.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 10:40:18 AM	Ankita	11/18/2024 10:47:26	Peak Integrated by Software
P4836-04DL	FE051255.D	1-chlorooctadecane (SURR)	yogesh	11/18/2024 10:40:19 AM	Ankita	11/18/2024 10:47:28	Peak Integrated by Software
P4836-04DL	FE051255.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 10:40:19 AM	Ankita	11/18/2024 10:47:28	Peak Integrated by Software
P4824-01DL	FE051258.D	1-chlorooctadecane (SURR)	yogesh	11/18/2024 10:40:21 AM	Ankita	11/18/2024 10:47:29	Peak Integrated by Software
P4824-01DL	FE051258.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 10:40:21 AM	Ankita	11/18/2024 10:47:29	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE111824AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FE051299.D	n-Tetracontane (C40)	yogesh	11/19/2024 8:51:09 AM	Ankita	11/19/2024 4:49:34	Peak Integrated by Software
P4839-01DL	FE051300.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:12 AM	Ankita	11/19/2024 4:49:36	Peak Integrated by Software
P4839-15DL	FE051305.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:16 AM	Ankita	11/19/2024 4:50:07	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051307.D	n-Octadecane (C18)	yogesh	11/19/2024 8:51:25 AM	Ankita	11/19/2024 4:49:43	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051307.D	n-Tetracontane (C40)	yogesh	11/19/2024 8:51:25 AM	Ankita	11/19/2024 4:49:43	Peak Integrated by Software
P4887-01MS	FE051319.D	n-Octacosane (C28)	yogesh	11/19/2024 8:51:27 AM	Ankita	11/19/2024 4:49:44	Peak Integrated by Software
P4887-01MSD	FE051320.D	n-Dotriacontane (C32)	yogesh	11/19/2024 8:51:29 AM	Ankita	11/19/2024 4:49:46	Peak Integrated by Software
P4887-01MSD	FE051320.D	n-Octacosane (C28)	yogesh	11/19/2024 8:51:29 AM	Ankita	11/19/2024 4:49:46	Peak Integrated by Software
P4887-05	FE051322.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:30 AM	Ankita	11/19/2024 4:49:48	Peak Integrated by Software
P4889-01	FE051324.D	ortho-Terphenyl (SURR)	yogesh	11/19/2024 8:51:32 AM	Ankita	11/19/2024 4:49:49	Peak Integrated by Software
P4850-01DL	FE051329.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:33 AM	Ankita	11/19/2024 4:49:51	Peak Integrated by Software
P4850-02DL	FE051330.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:36 AM	Ankita	11/19/2024 4:49:52	Peak Integrated by Software
P4851-01DL	FE051331.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:38 AM	Ankita	11/19/2024 4:49:54	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE111824AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4851-02DL	FE051332.D	1-chlorooctadecane (SURR)	yogesh	11/19/2024 8:51:40 AM	Ankita	11/19/2024 4:49:56	Peak Integrated by Software

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Manual Integration Report

Sequence:	FE111924AL	Instrument	FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4869-01DL	FE051340.D	ortho-Terphenyl (SURR)	yogesh	11/20/2024 8:02:23 AM	Ankita	11/20/2024 11:53:01	Peak Integrated by Software
P4869-02DL	FE051341.D	ortho-Terphenyl (SURR)	yogesh	11/20/2024 8:02:26 AM	Ankita	11/20/2024 11:53:03	Peak Integrated by Software
P4839-06DL	FE051342.D	1-chlorooctadecane (SURR)	yogesh	11/20/2024 8:02:28 AM	Ankita	11/20/2024 11:53:04	Peak Integrated by Software
P4839-15DL	FE051343.D	1-chlorooctadecane (SURR)	yogesh	11/20/2024 8:02:29 AM	Ankita	11/20/2024 11:53:05	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051345.D	n-Docosane (C22)	yogesh	11/20/2024 8:02:31 AM	Ankita	11/20/2024 11:53:07	Peak Integrated by Software
P4893-01	FE051346.D	ortho-Terphenyl (SURR)	yogesh	11/20/2024 8:02:32 AM	Ankita	11/20/2024 11:53:08	Peak Integrated by Software
P4908-01	FE051350.D	1-chlorooctadecane (SURR)	yogesh	11/20/2024 8:02:36 AM	Ankita	11/20/2024 11:53:10	Peak Integrated by Software
P4908-02	FE051351.D	1-chlorooctadecane (SURR)	yogesh	11/20/2024 8:02:38 AM	Ankita	11/20/2024 11:53:11	Peak Integrated by Software
P4910-05	FE051354.D	1-chlorooctadecane (SURR)	yogesh	11/20/2024 8:02:40 AM	Ankita	11/20/2024 11:53:13	Peak Integrated by Software
P4910-06	FE051355.D	1-chlorooctadecane (SURR)	yogesh	11/20/2024 8:02:42 AM	Ankita	11/20/2024 11:53:15	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE051357.D	n-Docosane (C22)	yogesh	11/20/2024 8:02:43 AM	Ankita	11/20/2024 11:53:16	Peak Integrated by Software

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Manual Integration Report

Sequence:	FF111524AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	FF111624AR	Instrument	FID_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4839-06	FF015059.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 1:17:41 PM	Ankita	11/18/2024 1:19:25	Peak Integrated by Software
20 PPM AROMATIC HC	FF015068.D	Phenanthrene (C19.36)	yogesh	11/18/2024 1:17:43 PM	Ankita	11/18/2024 1:19:23	Peak Integrated by Software
P4839-05DL	FF015070.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 1:17:45 PM	Ankita	11/18/2024 1:19:25	Peak Integrated by Software
P4839-06DL	FF015071.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 1:17:46 PM	Ankita	11/18/2024 1:19:26	Peak Integrated by Software
P4839-15DL	FF015072.D	2-Bromonaphthalene (SURR)	yogesh	11/18/2024 1:17:48 PM	Ankita	11/18/2024 1:19:27	Peak Integrated by Software
P4839-15DL	FF015072.D	ortho-Terphenyl (SURR)	yogesh	11/18/2024 1:17:48 PM	Ankita	11/18/2024 1:19:27	Peak Integrated by Software

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067746.D	14 Nov 2024 08:52	YP/AJ	Ok
2	I.BLK	FC067747.D	14 Nov 2024 09:27	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067748.D	14 Nov 2024 10:39	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067749.D	14 Nov 2024 11:15	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067750.D	14 Nov 2024 11:51	YP/AJ	Ok
6	10 PPM ALIHPHATIC HC STD4	FC067751.D	14 Nov 2024 12:27	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067752.D	14 Nov 2024 13:03	YP/AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FC067753.D	14 Nov 2024 13:49	YP/AJ	Ok
9	I.BLK	FC067754.D	14 Nov 2024 14:24	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067755.D	14 Nov 2024 15:00	YP/AJ	Ok
11	PB164966BL	FC067756.D	14 Nov 2024 15:36	YP/AJ	Ok
12	PB164966BS	FC067757.D	14 Nov 2024 16:13	YP/AJ	Ok
13	PB164966BSD	FC067758.D	14 Nov 2024 16:49	YP/AJ	Ok
14	P4833-01	FC067759.D	14 Nov 2024 17:25	YP/AJ	Ok
15	P4833-01D	FC067760.D	14 Nov 2024 18:02	YP/AJ	Ok
16	P4833-01MS	FC067761.D	14 Nov 2024 18:38	YP/AJ	Ok
17	P4833-01MSD	FC067762.D	14 Nov 2024 19:14	YP/AJ	Ok
18	P4833-02	FC067763.D	15 Nov 2024 02:06	YP/AJ	Ok
19	P4833-05	FC067764.D	15 Nov 2024 02:41	YP/AJ	Ok
20	P4833-06	FC067765.D	15 Nov 2024 03:17	YP/AJ	Ok
21	I.BLK	FC067766.D	15 Nov 2024 04:58	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

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	20 PPM ALIPHATIC HC STD	FC067767.D	15 Nov 2024 05:34	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111524AL

Review By	yogesh	Review On	11/15/2024 11:04:00 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:05 AM		
SubDirectory	FC111524AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067768.D	15 Nov 2024 09:05	YP/AJ	Ok
2	I.BLK	FC067769.D	15 Nov 2024 09:40	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067770.D	15 Nov 2024 10:16	YP/AJ	Ok
4	PB164996BL	FC067771.D	15 Nov 2024 12:09	YP/AJ	Ok
5	PB164996BS	FC067772.D	15 Nov 2024 12:45	YP/AJ	Ok
6	PB164996BSD	FC067773.D	15 Nov 2024 13:22	YP/AJ	Ok
7	P4839-07	FC067774.D	15 Nov 2024 13:59	YP/AJ	Dilution
8	P4839-07D	FC067775.D	15 Nov 2024 14:36	YP/AJ	Ok
9	P4839-07MS	FC067776.D	15 Nov 2024 15:13	YP/AJ	Ok,M
10	P4839-07MSD	FC067777.D	15 Nov 2024 15:49	YP/AJ	Ok,M
11	P4839-08	FC067778.D	15 Nov 2024 16:26	YP/AJ	Ok
12	P4839-09	FC067779.D	15 Nov 2024 17:03	YP/AJ	Dilution
13	P4839-10	FC067780.D	15 Nov 2024 17:40	YP/AJ	Ok
14	P4839-11	FC067781.D	15 Nov 2024 18:18	YP/AJ	Dilution
15	P4839-12	FC067782.D	15 Nov 2024 18:54	YP/AJ	Ok
16	P4839-13	FC067783.D	15 Nov 2024 19:31	YP/AJ	Dilution
17	I.BLK	FC067784.D	15 Nov 2024 20:46	YP/AJ	Ok
18	20 PPM ALIPHATIC HC STD	FC067785.D	15 Nov 2024 21:22	YP/AJ	Ok
19	PB164994BL	FC067786.D	15 Nov 2024 22:36	YP/AJ	Ok
20	PB164994BS	FC067787.D	15 Nov 2024 23:14	YP/AJ	Ok
21	PB164994BSD	FC067788.D	15 Nov 2024 23:51	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111524AL

Review By	yogesh	Review On	11/15/2024 11:04:00 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:05 AM		
SubDirectory	FC111524AL	HP Acquire Method		HP Processing Method	FC111424AL

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	P4848-01	FC067789.D	16 Nov 2024 00:28	YP/AJ	Ok
23	P4849-01	FC067790.D	16 Nov 2024 01:04	YP/AJ	Ok
24	P4849-01D	FC067791.D	16 Nov 2024 01:41	YP/AJ	Ok
25	P4849-01MS	FC067792.D	16 Nov 2024 02:18	YP/AJ	Ok,M
26	P4849-01MSD	FC067793.D	16 Nov 2024 02:56	YP/AJ	Ok
27	I.BLK	FC067794.D	16 Nov 2024 04:10	YP/AJ	Ok
28	20 PPM ALIPHATIC HC STD	FC067795.D	16 Nov 2024 05:24	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

Review By	yogesh	Review On	11/18/2024 12:56:08 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:48:46 PM		
SubDirectory	FC111824AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067796.D	18 Nov 2024 07:38	YP/AJ	Ok
2	I.BLK	FC067797.D	18 Nov 2024 08:13	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067798.D	18 Nov 2024 08:49	YP/AJ	Ok
4	P4839-07DL	FC067799.D	18 Nov 2024 09:25	YP/AJ	Ok
5	P4839-09DL	FC067800.D	18 Nov 2024 10:02	YP/AJ	Ok
6	P4839-10DL	FC067801.D	18 Nov 2024 10:38	YP/AJ	Not Ok
7	P4839-13DL	FC067802.D	18 Nov 2024 11:41	YP/AJ	Ok
8	P4839-21	FC067803.D	18 Nov 2024 12:18	YP/AJ	Dilution
9	P4839-22	FC067804.D	18 Nov 2024 12:55	YP/AJ	Ok
10	I.BLK	FC067805.D	18 Nov 2024 14:15	YP/AJ	Ok
11	20 PPM ALIPHATIC HC STD	FC067806.D	18 Nov 2024 14:50	YP/AJ	Ok
12	PB165032BL	FC067807.D	18 Nov 2024 15:27	YP/AJ	Ok
13	PB165032BS	FC067808.D	18 Nov 2024 16:03	YP/AJ	Ok,M
14	PB165032BSD	FC067809.D	18 Nov 2024 16:39	YP/AJ	Ok
15	P4839-22D	FC067810.D	18 Nov 2024 17:16	YP/AJ	Ok
16	P4839-22MS	FC067811.D	18 Nov 2024 23:41	YP/AJ	Ok
17	P4839-22MSD	FC067812.D	19 Nov 2024 00:17	YP/AJ	Ok,M
18	P4860-03	FC067813.D	19 Nov 2024 00:53	YP/AJ	Ok
19	P4860-04	FC067814.D	19 Nov 2024 02:45	YP/AJ	Ok
20	P4860-06	FC067815.D	19 Nov 2024 07:59	YP/AJ	Ok
21	P4860-05	FC067816.D	19 Nov 2024 08:37	YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

Review By	yogesh	Review On	11/18/2024 12:56:08 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:48:46 PM		
SubDirectory	FC111824AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067817.D	19 Nov 2024 09:20	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC067818.D	19 Nov 2024 10:04	YP/AJ	Ok
24	P4839-11DL	FC067819.D	19 Nov 2024 10:40	YP/AJ	Ok
25	P4839-21DL	FC067820.D	19 Nov 2024 11:17	YP/AJ	Dilution
26	P4839-21DL2	FC067821.D	19 Nov 2024 11:54	YP/AJ	Ok
27	I.BLK	FC067822.D	19 Nov 2024 12:32	YP/AJ	Ok
28	20 PPM ALIPHATIC HC STD	FC067823.D	19 Nov 2024 13:09	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111424AR

Review By	yogesh	Review On	11/14/2024 11:28:45 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:08:51 AM		
SubDirectory	FD111424AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048727.D	14 Nov 2024 08:52	YP/AJ	Ok
2	I.BLK	FD048728.D	14 Nov 2024 09:27	YP/AJ	Ok
3	100 PPM AROMATIC HC STD1	FD048729.D	14 Nov 2024 10:39	YP/AJ	Ok
4	50 PPM AROMATIC HC STD2	FD048730.D	14 Nov 2024 11:15	YP/AJ	Ok
5	20 PPM AROMATIC HC STD3	FD048731.D	14 Nov 2024 11:51	YP/AJ	Ok
6	10 PPM AROMATIC HC STD4	FD048732.D	14 Nov 2024 12:27	YP/AJ	Ok,M
7	5 PPM AROMATIC HC STD5	FD048733.D	14 Nov 2024 13:03	YP/AJ	Ok,M
8	20 PPM AROMATIC HC STD ICV	FD048734.D	14 Nov 2024 13:49	YP/AJ	Ok
9	I.BLK	FD048735.D	14 Nov 2024 14:24	YP/AJ	Ok
10	20 PPM AROMATIC HC STD	FD048736.D	14 Nov 2024 15:00	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111524AR

Review By	yogesh	Review On	11/15/2024 11:04:58 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:15 AM		
SubDirectory	FD111524AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048737.D	15 Nov 2024 09:05	YP/AJ	Ok
2	I.BLK	FD048738.D	15 Nov 2024 09:40	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048739.D	15 Nov 2024 10:16	YP/AJ	Ok
4	PB164996BL	FD048740.D	15 Nov 2024 12:09	YP/AJ	Ok
5	PB164996BS	FD048741.D	15 Nov 2024 12:45	YP/AJ	Ok
6	PB164996BSD	FD048742.D	15 Nov 2024 13:22	YP/AJ	Ok
7	P4839-07	FD048743.D	15 Nov 2024 13:59	YP/AJ	Ok
8	P4839-07D	FD048744.D	15 Nov 2024 14:36	YP/AJ	Ok
9	P4839-07MS	FD048745.D	15 Nov 2024 15:13	YP/AJ	Ok
10	P4839-07MSD	FD048746.D	15 Nov 2024 15:49	YP/AJ	Ok
11	P4839-08	FD048747.D	15 Nov 2024 16:26	YP/AJ	Ok
12	P4839-09	FD048748.D	15 Nov 2024 17:03	YP/AJ	Dilution
13	P4839-10	FD048749.D	15 Nov 2024 17:40	YP/AJ	Ok
14	P4839-11	FD048750.D	15 Nov 2024 18:18	YP/AJ	Ok
15	P4839-12	FD048751.D	15 Nov 2024 18:54	YP/AJ	Ok
16	P4839-13	FD048752.D	15 Nov 2024 19:31	YP/AJ	Dilution
17	I.BLK	FD048753.D	15 Nov 2024 20:46	YP/AJ	Ok
18	20 PPM AROMATIC HC STD	FD048754.D	15 Nov 2024 21:22	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

Review By	yogesh	Review On	11/18/2024 12:57:00 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:49:11 PM		
SubDirectory	FD111824AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048755.D	18 Nov 2024 07:38	YP/AJ	Ok
2	I.BLK	FD048756.D	18 Nov 2024 08:13	YP/AJ	Ok
3	20 PPM AROMATIC HC STD	FD048757.D	18 Nov 2024 08:49	YP/AJ	Ok,M
4	P4839-09DL	FD048758.D	18 Nov 2024 09:25	YP/AJ	Ok
5	P4839-13DL	FD048759.D	18 Nov 2024 10:02	YP/AJ	Ok
6	P4860-01	FD048760.D	18 Nov 2024 10:38	YP/AJ	Ok
7	P4860-02	FD048761.D	18 Nov 2024 11:41	YP/AJ	Ok
8	P4839-21	FD048762.D	18 Nov 2024 12:18	YP/AJ	Dilution
9	P4839-22	FD048763.D	18 Nov 2024 12:55	YP/AJ	Ok
10	I.BLK	FD048764.D	18 Nov 2024 14:15	YP/AJ	Ok
11	20 PPM AROMATIC HC STD	FD048765.D	18 Nov 2024 14:50	YP/AJ	Ok
12	PB165032BL	FD048766.D	18 Nov 2024 15:27	YP/AJ	Ok
13	PB165032BS	FD048767.D	18 Nov 2024 16:03	YP/AJ	Ok,M
14	PB165032BSD	FD048768.D	18 Nov 2024 16:39	YP/AJ	Ok,M
15	P4839-22D	FD048769.D	18 Nov 2024 17:16	YP/AJ	Ok
16	P4839-22MS	FD048770.D	18 Nov 2024 23:41	YP/AJ	Ok,M
17	P4839-22MSD	FD048771.D	19 Nov 2024 00:17	YP/AJ	Ok,M
18	P4860-03	FD048772.D	19 Nov 2024 00:53	YP/AJ	Ok
19	P4860-04	FD048773.D	19 Nov 2024 02:45	YP/AJ	Ok
20	P4860-06	FD048774.D	19 Nov 2024 07:59	YP/AJ	Ok
21	P4860-05	FD048775.D	19 Nov 2024 08:37	YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

Review By	yogesh	Review On	11/18/2024 12:57:00 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:49:11 PM		
SubDirectory	FD111824AR	HP Acquire Method		HP Processing Method	FD111424AR

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	

22	I.BLK	FD048776.D	19 Nov 2024 09:20	YP/AJ	Ok
23	20 PPM AROMATIC HC STD	FD048777.D	19 Nov 2024 10:04	YP/AJ	Ok
24	P4839-21DL	FD048778.D	19 Nov 2024 10:40	YP/AJ	Ok
25	I.BLK	FD048779.D	19 Nov 2024 11:17	YP/AJ	Ok
26	20 PPM AROMATIC HC STD	FD048780.D	19 Nov 2024 11:54	YP/AJ	Ok
27	P4839-02	FD048781.D	19 Nov 2024 13:45	YP/AJ	Ok
28	I.BLK	FD048782.D	19 Nov 2024 14:59	YP/AJ	Ok
29	20 PPM AROMATIC HC STD	FD048783.D	19 Nov 2024 15:36	YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110724AL

Review By	yogesh	Review On	11/6/2024 3:54:26 PM		
Supervise By	Ankita	Supervise On	11/7/2024 8:56:25 AM		
SubDirectory	FE110724AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051073.D	06 Nov 2024 15:51	YP\AJ	Ok
2	I.BLK	FE051074.D	06 Nov 2024 16:21	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE051075.D	06 Nov 2024 16:52	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE051076.D	06 Nov 2024 17:22	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE051077.D	06 Nov 2024 17:52	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE051078.D	06 Nov 2024 18:22	YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FE051079.D	06 Nov 2024 18:53	YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FE051080.D	06 Nov 2024 19:23	YP\AJ	Ok
9	I.BLK	FE051081.D	06 Nov 2024 20:23	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE051082.D	06 Nov 2024 20:54	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111524AL

Review By	yogesh	Review On	11/15/2024 11:06:13 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:34 AM		
SubDirectory	FE111524AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051249.D	15 Nov 2024 06:36	YP\AJ	Ok
2	I.BLK	FE051250.D	15 Nov 2024 07:06	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051251.D	15 Nov 2024 07:36	YP\AJ	Ok
4	P4835-04DL	FE051252.D	15 Nov 2024 08:16	YP\AJ	Ok
5	P4836-03DL	FE051253.D	15 Nov 2024 08:46	YP\AJ	Dilution
6	P4836-03DL2	FE051254.D	15 Nov 2024 09:17	YP\AJ	Ok,M
7	P4836-04DL	FE051255.D	15 Nov 2024 09:47	YP\AJ	Dilution
8	P4836-04DL2	FE051256.D	15 Nov 2024 10:17	YP\AJ	Ok
9	P4825-02DL	FE051257.D	15 Nov 2024 10:47	YP\AJ	Ok
10	P4824-01DL	FE051258.D	15 Nov 2024 11:17	YP\AJ	Ok,M
11	P4824-02DL	FE051259.D	15 Nov 2024 11:47	YP\AJ	Ok
12	I.BLK	FE051260.D	15 Nov 2024 12:47	YP\AJ	Ok
13	20 PPM ALIPHATIC HC STD	FE051261.D	15 Nov 2024 13:17	YP\AJ	Ok
14	P4839-01	FE051262.D	15 Nov 2024 14:48	YP\AJ	Dilution
15	P4839-02	FE051263.D	15 Nov 2024 15:18	YP\AJ	Dilution
16	P4839-03	FE051264.D	15 Nov 2024 15:48	YP\AJ	Dilution
17	P4839-04	FE051265.D	15 Nov 2024 16:18	YP\AJ	Ok
18	P4839-05	FE051266.D	15 Nov 2024 16:48	YP\AJ	Dilution
19	P4839-06	FE051267.D	15 Nov 2024 17:18	YP\AJ	Dilution
20	P4839-14	FE051268.D	15 Nov 2024 17:48	YP\AJ	Ok
21	P4839-15	FE051269.D	15 Nov 2024 18:19	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111524AL

Review By	yogesh	Review On	11/15/2024 11:06:13 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:34 AM		
SubDirectory	FE111524AL	HP Acquire Method		HP Processing Method	FE110724AL

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	P4839-16	FE051270.D	15 Nov 2024 18:49	YP\AJ	Ok
23	P4839-17	FE051271.D	15 Nov 2024 19:19	YP\AJ	Ok
24	P4839-18	FE051272.D	15 Nov 2024 19:49	YP\AJ	Ok
25	P4839-19	FE051273.D	15 Nov 2024 20:19	YP\AJ	Ok
26	P4839-20	FE051274.D	15 Nov 2024 20:50	YP\AJ	Ok
27	I.BLK	FE051275.D	15 Nov 2024 22:20	YP\AJ	Ok
28	20 PPM ALIPHATIC HC STD	FE051276.D	15 Nov 2024 23:21	YP\AJ	Ok
29	P4857-03	FE051277.D	15 Nov 2024 23:51	YP\AJ	Ok
30	P4857-04	FE051278.D	16 Nov 2024 00:21	YP\AJ	Ok
31	P4859-01	FE051279.D	16 Nov 2024 00:52	YP\AJ	Ok
32	P4859-02	FE051280.D	16 Nov 2024 01:22	YP\AJ	Ok
33	P4870-01	FE051281.D	16 Nov 2024 01:53	YP\AJ	Ok
34	P4870-02	FE051282.D	16 Nov 2024 02:23	YP\AJ	Ok
35	P4870-04	FE051283.D	16 Nov 2024 02:53	YP\AJ	Ok
36	P4870-05	FE051284.D	16 Nov 2024 03:24	YP\AJ	Ok
37	P4870-07	FE051285.D	16 Nov 2024 03:54	YP\AJ	Ok
38	P4870-08	FE051286.D	16 Nov 2024 04:24	YP\AJ	Ok
39	P4870-10	FE051287.D	16 Nov 2024 04:54	YP\AJ	Ok
40	P4870-11	FE051288.D	16 Nov 2024 05:25	YP\AJ	Ok
41	P4850-01	FE051289.D	16 Nov 2024 05:55	YP\AJ	Dilution
42	P4850-02	FE051290.D	16 Nov 2024 06:25	YP\AJ	Dilution
43	P4851-01	FE051291.D	16 Nov 2024 06:55	YP\AJ	Dilution
44	P4851-02	FE051292.D	16 Nov 2024 07:25	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111524AL

Review By	yogesh	Review On	11/15/2024 11:06:13 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:34 AM		
SubDirectory	FE111524AL	HP Acquire Method		HP Processing Method	FE110724AL

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	

45	P4857-01	FE051293.D	16 Nov 2024 07:55	YP\AJ	Dilution
46	P4857-02	FE051294.D	16 Nov 2024 08:25	YP\AJ	Dilution
47	I.BLK	FE051295.D	16 Nov 2024 09:56	YP\AJ	Ok
48	20 PPM ALIPHATIC HC STD	FE051296.D	16 Nov 2024 10:26	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111824AL

Review By	yogesh	Review On	11/18/2024 12:58:01 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:50:11 PM		
SubDirectory	FE111824AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051297.D	18 Nov 2024 07:50	YP\AJ	Ok
2	I.BLK	FE051298.D	18 Nov 2024 08:20	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051299.D	18 Nov 2024 08:50	YP\AJ	Ok,M
4	P4839-01DL	FE051300.D	18 Nov 2024 09:21	YP\AJ	Ok,M
5	P4839-02DL	FE051301.D	18 Nov 2024 09:51	YP\AJ	Ok
6	P4839-03DL	FE051302.D	18 Nov 2024 10:21	YP\AJ	Ok
7	P4839-05DL	FE051303.D	18 Nov 2024 10:51	YP\AJ	Ok
8	P4839-06DL	FE051304.D	18 Nov 2024 11:21	YP\AJ	Not Ok
9	P4839-15DL	FE051305.D	18 Nov 2024 11:52	YP\AJ	Not Ok
10	I.BLK	FE051306.D	18 Nov 2024 12:22	YP\AJ	Ok
11	20 PPM ALIPHATIC HC STD	FE051307.D	18 Nov 2024 12:52	YP\AJ	Ok,M
12	PB165034BL	FE051308.D	18 Nov 2024 13:52	YP\AJ	Ok
13	PB165034BS	FE051309.D	18 Nov 2024 14:22	YP\AJ	Ok
14	PB165034BSD	FE051310.D	18 Nov 2024 14:52	YP\AJ	Ok
15	P4869-01	FE051311.D	18 Nov 2024 15:22	YP\AJ	Dilution
16	P4869-02	FE051312.D	18 Nov 2024 15:52	YP\AJ	Dilution
17	P4887-01	FE051313.D	18 Nov 2024 16:22	YP\AJ	Ok
18	P4887-01D	FE051314.D	18 Nov 2024 16:53	YP\AJ	Ok
19	P4857-01DL	FE051315.D	18 Nov 2024 17:23	YP\AJ	Dilution
20	P4857-01DL2	FE051316.D	18 Nov 2024 17:53	YP\AJ	Not Ok
21	P4857-02DL	FE051317.D	18 Nov 2024 18:23	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111824AL

Review By	yogesh	Review On	11/18/2024 12:58:01 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:50:11 PM		
SubDirectory	FE111824AL	HP Acquire Method		HP Processing Method	FE110724AL

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	P4857-02DL2	FE051318.D	18 Nov 2024 18:52	YP\AJ	Not Ok
23	P4887-01MS	FE051319.D	18 Nov 2024 19:23	YP\AJ	Ok,M
24	P4887-01MSD	FE051320.D	18 Nov 2024 19:52	YP\AJ	Ok,M
25	P4887-03	FE051321.D	18 Nov 2024 20:22	YP\AJ	Ok
26	P4887-05	FE051322.D	18 Nov 2024 20:53	YP\AJ	Ok,M
27	P4887-07	FE051323.D	18 Nov 2024 21:23	YP\AJ	Ok
28	P4889-01	FE051324.D	18 Nov 2024 21:53	YP\AJ	Ok,M
29	P4889-03	FE051325.D	18 Nov 2024 22:23	YP\AJ	Ok
30	P4889-05	FE051326.D	18 Nov 2024 22:53	YP\AJ	Ok
31	I.BLK	FE051327.D	18 Nov 2024 23:53	YP\AJ	Ok
32	20 PPM ALIPHATIC HC STD	FE051328.D	19 Nov 2024 00:23	YP\AJ	Ok
33	P4850-01DL	FE051329.D	19 Nov 2024 01:23	YP\AJ	Ok,M
34	P4850-02DL	FE051330.D	19 Nov 2024 01:53	YP\AJ	Ok,M
35	P4851-01DL	FE051331.D	19 Nov 2024 02:23	YP\AJ	Ok,M
36	P4851-02DL	FE051332.D	19 Nov 2024 02:54	YP\AJ	Ok,M
37	I.BLK	FE051333.D	19 Nov 2024 03:54	YP\AJ	Ok
38	20 PPM ALIPHATIC HC STD	FE051334.D	19 Nov 2024 04:25	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111924AL

Review By	yogesh	Review On	11/19/2024 12:18:08 PM		
Supervise By	Ankita	Supervise On	11/20/2024 11:53:36 AM		
SubDirectory	FE111924AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051335.D	19 Nov 2024 05:55	YP\AJ	Ok
2	I.BLK	FE051336.D	19 Nov 2024 06:25	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE051337.D	19 Nov 2024 06:55	YP\AJ	Ok
4	P4857-01DL2	FE051338.D	19 Nov 2024 07:57	YP\AJ	Ok
5	P4857-02DL2	FE051339.D	19 Nov 2024 08:28	YP\AJ	Ok
6	P4869-01DL	FE051340.D	19 Nov 2024 08:58	YP\AJ	Ok,M
7	P4869-02DL	FE051341.D	19 Nov 2024 09:27	YP\AJ	Ok,M
8	P4839-06DL	FE051342.D	19 Nov 2024 09:57	YP\AJ	Ok,M
9	P4839-15DL	FE051343.D	19 Nov 2024 10:27	YP\AJ	Ok,M
10	I.BLK	FE051344.D	19 Nov 2024 11:28	YP\AJ	Ok
11	20 PPM ALIPHATIC HC STD	FE051345.D	19 Nov 2024 11:58	YP\AJ	Ok,M
12	P4893-01	FE051346.D	19 Nov 2024 14:06	YP\AJ	Ok,M
13	P4893-02	FE051347.D	19 Nov 2024 14:36	YP\AJ	Ok
14	P4893-05	FE051348.D	19 Nov 2024 15:06	YP\AJ	Ok
15	P4893-06	FE051349.D	19 Nov 2024 15:37	YP\AJ	Ok
16	P4908-01	FE051350.D	19 Nov 2024 16:07	YP\AJ	Ok,M
17	P4908-02	FE051351.D	19 Nov 2024 16:37	YP\AJ	Ok,M
18	P4908-03	FE051352.D	19 Nov 2024 17:07	YP\AJ	Ok
19	P4908-04	FE051353.D	19 Nov 2024 17:37	YP\AJ	Ok
20	P4910-05	FE051354.D	19 Nov 2024 18:07	YP\AJ	Ok,M
21	P4910-06	FE051355.D	19 Nov 2024 18:37	YP\AJ	Ok,M

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111924AL

Review By	yogesh	Review On	11/19/2024 12:18:08 PM		
Supervise By	Ankita	Supervise On	11/20/2024 11:53:36 AM		
SubDirectory	FE111924AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051356.D	19 Nov 2024 19:38	YP\AJ	Ok
23	20 PPM ALIPHATIC HC STD	FE051357.D	19 Nov 2024 20:08	YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111524AR

Review By	yogesh	Review On	11/14/2024 3:44:42 PM		
Supervise By	Ankita	Supervise On	11/15/2024 9:15:19 AM		
SubDirectory	FF111524AR	HP Acquire Method		HP Processing Method	FF111524AR

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	FF015041.D	14 Nov 2024 16:37	YP\AJ	Ok
2	I.BLK	FF015042.D	14 Nov 2024 17:05	YP\AJ	Ok
3	100 PPM AROMATIC HC STD1	FF015043.D	14 Nov 2024 17:34	YP\AJ	Ok
4	50 PPM AROMATIC HC STD2	FF015044.D	14 Nov 2024 18:02	YP\AJ	Ok
5	20 PPM AROMATIC HC STD3	FF015045.D	14 Nov 2024 18:30	YP\AJ	Ok
6	10 PPM AROMATIC HC STD4	FF015046.D	14 Nov 2024 18:58	YP\AJ	Ok
7	5 PPM AROMATIC HC STD5	FF015047.D	14 Nov 2024 19:27	YP\AJ	Ok
8	20 PPM AROMATIC HC STD ICV	FF015048.D	14 Nov 2024 19:55	YP\AJ	Ok
9	I.BLK	FF015049.D	14 Nov 2024 20:52	YP\AJ	Ok
10	20 PPM AROMATIC HC STD	FF015050.D	14 Nov 2024 21:20	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111624AR

Review By	yogesh	Review On	11/15/2024 11:07:25 AM		
Supervise By	Ankita	Supervise On	11/18/2024 1:19:31 PM		
SubDirectory	FF111624AR	HP Acquire Method		HP Processing Method	FF111524AR

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	FF015051.D	15 Nov 2024 09:28	YP\AJ	Ok
2	I.BLK	FF015052.D	15 Nov 2024 09:56	YP\AJ	Ok
3	20 PPM AROMATIC HC STD	FF015053.D	15 Nov 2024 10:24	YP\AJ	Ok
4	P4839-01	FF015054.D	15 Nov 2024 11:53	YP\AJ	Dilution
5	P4839-02	FF015055.D	15 Nov 2024 12:21	YP\AJ	ReRun
6	P4839-03	FF015056.D	15 Nov 2024 12:49	YP\AJ	Ok
7	P4839-04	FF015057.D	15 Nov 2024 13:18	YP\AJ	Ok
8	P4839-05	FF015058.D	15 Nov 2024 13:46	YP\AJ	Dilution
9	P4839-06	FF015059.D	15 Nov 2024 14:14	YP\AJ	Dilution
10	P4839-14	FF015060.D	15 Nov 2024 14:43	YP\AJ	Ok
11	P4839-15	FF015061.D	15 Nov 2024 15:11	YP\AJ	Dilution
12	P4839-16	FF015062.D	15 Nov 2024 15:39	YP\AJ	Ok
13	P4839-17	FF015063.D	15 Nov 2024 16:08	YP\AJ	Ok
14	P4839-18	FF015064.D	15 Nov 2024 16:36	YP\AJ	Ok
15	P4839-19	FF015065.D	15 Nov 2024 17:04	YP\AJ	Ok
16	P4839-20	FF015066.D	15 Nov 2024 17:33	YP\AJ	Ok
17	I.BLK	FF015067.D	15 Nov 2024 18:30	YP\AJ	Ok
18	20 PPM AROMATIC HC STD	FF015068.D	15 Nov 2024 18:58	YP\AJ	Ok,M
19	P4839-01DL	FF015069.D	15 Nov 2024 20:23	YP\AJ	Ok
20	P4839-05DL	FF015070.D	15 Nov 2024 20:51	YP\AJ	Ok,M
21	P4839-06DL	FF015071.D	15 Nov 2024 21:20	YP\AJ	Ok,M

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111624AR

Review By	yogesh	Review On	11/15/2024 11:07:25 AM		
Supervise By	Ankita	Supervise On	11/18/2024 1:19:31 PM		
SubDirectory	FF111624AR	HP Acquire Method		HP Processing Method	FF111524AR

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	

22	P4839-15DL	FF015072.D	15 Nov 2024 21:48	YP\AJ	Ok,M
23	P4839-17DL	FF015073.D	15 Nov 2024 22:17	YP\AJ	Not Ok
24	I.BLK	FF015074.D	15 Nov 2024 23:14	YP\AJ	Ok
25	20 PPM AROMATIC HC STD	FF015075.D	15 Nov 2024 23:42	YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067746.D	14 Nov 2024 08:52		YP/AJ	Ok
2	I.BLK	I.BLK	FC067747.D	14 Nov 2024 09:27		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC067748.D	14 Nov 2024 10:39		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067749.D	14 Nov 2024 11:15		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067750.D	14 Nov 2024 11:51		YP/AJ	Ok
6	10 PPM ALIHPHATIC H	10 PPM ALIHPHATIC H	FC067751.D	14 Nov 2024 12:27		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067752.D	14 Nov 2024 13:03		YP/AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067753.D	14 Nov 2024 13:49		YP/AJ	Ok
9	I.BLK	I.BLK	FC067754.D	14 Nov 2024 14:24		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067755.D	14 Nov 2024 15:00		YP/AJ	Ok
11	PB164966BL	PB164966BL	FC067756.D	14 Nov 2024 15:36		YP/AJ	Ok
12	PB164966BS	PB164966BS	FC067757.D	14 Nov 2024 16:13		YP/AJ	Ok
13	PB164966BSD	PB164966BSD	FC067758.D	14 Nov 2024 16:49		YP/AJ	Ok
14	P4833-01	MH-731	FC067759.D	14 Nov 2024 17:25		YP/AJ	Ok
15	P4833-01D	P4833-01D	FC067760.D	14 Nov 2024 18:02		YP/AJ	Ok
16	P4833-01MS	MH-731MS	FC067761.D	14 Nov 2024 18:38	FC067759.D	YP/AJ	Ok
17	P4833-01MSD	P4833-01MSD	FC067762.D	14 Nov 2024 19:14	FC067759.D!FC067762.D	YP/AJ	Ok
18	P4833-02	MH-731-EPH	FC067763.D	15 Nov 2024 02:06		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111424AL

Review By	yogesh	Review On	11/14/2024 11:18:40 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:13:25 AM		
SubDirectory	FC111424AL	HP Acquire Method		HP Processing Method	FC111424AL

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	P4833-05	TP-2	FC067764.D	15 Nov 2024 02:41		YP/AJ	Ok
20	P4833-06	TP-2-EPH	FC067765.D	15 Nov 2024 03:17		YP/AJ	Ok
21	I.BLK	I.BLK	FC067766.D	15 Nov 2024 04:58		YP/AJ	Ok
22	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067767.D	15 Nov 2024 05:34		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111524AL

Review By	yogesh	Review On	11/15/2024 11:04:00 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:05 AM		
SubDirectory	FC111524AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067768.D	15 Nov 2024 09:05		YP/AJ	Ok
2	I.BLK	I.BLK	FC067769.D	15 Nov 2024 09:40		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067770.D	15 Nov 2024 10:16		YP/AJ	Ok
4	PB164996BL	PB164996BL	FC067771.D	15 Nov 2024 12:09		YP/AJ	Ok
5	PB164996BS	PB164996BS	FC067772.D	15 Nov 2024 12:45		YP/AJ	Ok
6	PB164996BSD	PB164996BSD	FC067773.D	15 Nov 2024 13:22		YP/AJ	Ok
7	P4839-07	EX-9-TPH-15	FC067774.D	15 Nov 2024 13:59	Need 5X	YP/AJ	Dilution
8	P4839-07D	P4839-07D	FC067775.D	15 Nov 2024 14:36		YP/AJ	Ok
9	P4839-07MS	EX-9-TPH-15MS	FC067776.D	15 Nov 2024 15:13	FC067774.D	YP/AJ	Ok,M
10	P4839-07MSD	EX-9-TPH-15MSD	FC067777.D	15 Nov 2024 15:49	FC067774.D!FC067776.D	YP/AJ	Ok,M
11	P4839-08	EX-9-TPH-16	FC067778.D	15 Nov 2024 16:26		YP/AJ	Ok
12	P4839-09	EX-9-TPH-17	FC067779.D	15 Nov 2024 17:03	Need 5X	YP/AJ	Dilution
13	P4839-10	EX-9-TPH-18	FC067780.D	15 Nov 2024 17:40		YP/AJ	Ok
14	P4839-11	EX-9-TPH-19	FC067781.D	15 Nov 2024 18:18	need 5x dilution	YP/AJ	Dilution
15	P4839-12	EX-9-TPH-20	FC067782.D	15 Nov 2024 18:54		YP/AJ	Ok
16	P4839-13	EX-9-TPH-21	FC067783.D	15 Nov 2024 19:31	Need 5X	YP/AJ	Dilution
17	I.BLK	I.BLK	FC067784.D	15 Nov 2024 20:46		YP/AJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067785.D	15 Nov 2024 21:22		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111524AL

Review By	yogesh	Review On	11/15/2024 11:04:00 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:05 AM		
SubDirectory	FC111524AL	HP Acquire Method		HP Processing Method	FC111424AL

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	PB164994BL	PB164994BL	FC067786.D	15 Nov 2024 22:36		YP/AJ	Ok
20	PB164994BS	PB164994BS	FC067787.D	15 Nov 2024 23:14		YP/AJ	Ok
21	PB164994BSD	PB164994BSD	FC067788.D	15 Nov 2024 23:51		YP/AJ	Ok
22	P4848-01	TP-1	FC067789.D	16 Nov 2024 00:28		YP/AJ	Ok
23	P4849-01	RR-1	FC067790.D	16 Nov 2024 01:04		YP/AJ	Ok
24	P4849-01D	P4849-01D	FC067791.D	16 Nov 2024 01:41		YP/AJ	Ok
25	P4849-01MS	RR-1MS	FC067792.D	16 Nov 2024 02:18	FC067790.D	YP/AJ	Ok,M
26	P4849-01MSD	RR-1MSD	FC067793.D	16 Nov 2024 02:56	FC067790.D!FC067792.D	YP/AJ	Ok
27	I.BLK	I.BLK	FC067794.D	16 Nov 2024 04:10		YP/AJ	Ok
28	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067795.D	16 Nov 2024 05:24		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

Review By	yogesh	Review On	11/18/2024 12:56:08 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:48:46 PM		
SubDirectory	FC111824AL	HP Acquire Method		HP Processing Method	FC111424AL

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	FC067796.D	18 Nov 2024 07:38		YP/AJ	Ok
2	I.BLK	I.BLK	FC067797.D	18 Nov 2024 08:13		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067798.D	18 Nov 2024 08:49		YP/AJ	Ok
4	P4839-07DL	EX-9-TPH-15DL	FC067799.D	18 Nov 2024 09:25		YP/AJ	Ok
5	P4839-09DL	EX-9-TPH-17DL	FC067800.D	18 Nov 2024 10:02		YP/AJ	Ok
6	P4839-10DL	P4839-10DL	FC067801.D	18 Nov 2024 10:38	not required	YP/AJ	Not Ok
7	P4839-13DL	EX-9-TPH-21DL	FC067802.D	18 Nov 2024 11:41		YP/AJ	Ok
8	P4839-21	EX-4-TPH-5	FC067803.D	18 Nov 2024 12:18	Need 10X,20X	YP/AJ	Dilution
9	P4839-22	EX-4-TPH-6	FC067804.D	18 Nov 2024 12:55		YP/AJ	Ok
10	I.BLK	I.BLK	FC067805.D	18 Nov 2024 14:15		YP/AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067806.D	18 Nov 2024 14:50		YP/AJ	Ok
12	PB165032BL	PB165032BL	FC067807.D	18 Nov 2024 15:27		YP/AJ	Ok
13	PB165032BS	PB165032BS	FC067808.D	18 Nov 2024 16:03		YP/AJ	Ok,M
14	PB165032BSD	PB165032BSD	FC067809.D	18 Nov 2024 16:39		YP/AJ	Ok
15	P4839-22D	P4839-22D	FC067810.D	18 Nov 2024 17:16		YP/AJ	Ok
16	P4839-22MS	EX-4-TPH-6MS	FC067811.D	18 Nov 2024 23:41	FC067804.D	YP/AJ	Ok
17	P4839-22MSD	EX-4-TPH-6MSD	FC067812.D	19 Nov 2024 00:17	FC067804.D!FC067811.D	YP/AJ	Ok,M
18	P4860-03	PH2-BOT-002	FC067813.D	19 Nov 2024 00:53		YP/AJ	Ok

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Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QCBatch ID # FC111824AL

Review By	yogesh	Review On	11/18/2024 12:56:08 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:48:46 PM		
SubDirectory	FC111824AL	HP Acquire Method		HP Processing Method	FC111424AL

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	P4860-04	PH2-BOT-003	FC067814.D	19 Nov 2024 02:45		YP/AJ	Ok
20	P4860-06	PH2-BOT-009	FC067815.D	19 Nov 2024 07:59		YP/AJ	Ok
21	P4860-05	PH2-BOT-004	FC067816.D	19 Nov 2024 08:37		YP/AJ	Ok
22	I.BLK	I.BLK	FC067817.D	19 Nov 2024 09:20		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067818.D	19 Nov 2024 10:04		YP/AJ	Ok
24	P4839-11DL	EX-9-TPH-19DL	FC067819.D	19 Nov 2024 10:40		YP/AJ	Ok
25	P4839-21DL	EX-4-TPH-5DL	FC067820.D	19 Nov 2024 11:17	Need-more Dilution	YP/AJ	Dilution
26	P4839-21DL2	EX-4-TPH-5DL2	FC067821.D	19 Nov 2024 11:54		YP/AJ	Ok
27	I.BLK	I.BLK	FC067822.D	19 Nov 2024 12:32		YP/AJ	Ok
28	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067823.D	19 Nov 2024 13:09		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111424AR

Review By	yogesh	Review On	11/14/2024 11:28:45 AM		
Supervise By	Ankita	Supervise On	11/15/2024 10:08:51 AM		
SubDirectory	FD111424AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048727.D	14 Nov 2024 08:52		YP/AJ	Ok
2	I.BLK	I.BLK	FD048728.D	14 Nov 2024 09:27		YP/AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FD048729.D	14 Nov 2024 10:39		YP/AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FD048730.D	14 Nov 2024 11:15		YP/AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048731.D	14 Nov 2024 11:51		YP/AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FD048732.D	14 Nov 2024 12:27		YP/AJ	Ok,M
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FD048733.D	14 Nov 2024 13:03		YP/AJ	Ok,M
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048734.D	14 Nov 2024 13:49		YP/AJ	Ok
9	I.BLK	I.BLK	FD048735.D	14 Nov 2024 14:24		YP/AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048736.D	14 Nov 2024 15:00		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111524AR

Review By	yogesh	Review On	11/15/2024 11:04:58 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:15 AM		
SubDirectory	FD111524AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048737.D	15 Nov 2024 09:05		YP/AJ	Ok
2	I.BLK	I.BLK	FD048738.D	15 Nov 2024 09:40		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048739.D	15 Nov 2024 10:16		YP/AJ	Ok
4	PB164996BL	PB164996BL	FD048740.D	15 Nov 2024 12:09		YP/AJ	Ok
5	PB164996BS	PB164996BS	FD048741.D	15 Nov 2024 12:45		YP/AJ	Ok
6	PB164996BSD	PB164996BSD	FD048742.D	15 Nov 2024 13:22		YP/AJ	Ok
7	P4839-07	EX-9-TPH-15	FD048743.D	15 Nov 2024 13:59		YP/AJ	Ok
8	P4839-07D	P4839-07D	FD048744.D	15 Nov 2024 14:36		YP/AJ	Ok
9	P4839-07MS	EX-9-TPH-15MS	FD048745.D	15 Nov 2024 15:13	FD048743.D	YP/AJ	Ok
10	P4839-07MSD	EX-9-TPH-15MSD	FD048746.D	15 Nov 2024 15:49	FD048743.D!FD048745.D	YP/AJ	Ok
11	P4839-08	EX-9-TPH-16	FD048747.D	15 Nov 2024 16:26		YP/AJ	Ok
12	P4839-09	EX-9-TPH-17	FD048748.D	15 Nov 2024 17:03	Need 5X	YP/AJ	Dilution
13	P4839-10	EX-9-TPH-18	FD048749.D	15 Nov 2024 17:40		YP/AJ	Ok
14	P4839-11	EX-9-TPH-19	FD048750.D	15 Nov 2024 18:18		YP/AJ	Ok
15	P4839-12	EX-9-TPH-20	FD048751.D	15 Nov 2024 18:54		YP/AJ	Ok
16	P4839-13	EX-9-TPH-21	FD048752.D	15 Nov 2024 19:31	Need 2X	YP/AJ	Dilution
17	I.BLK	I.BLK	FD048753.D	15 Nov 2024 20:46		YP/AJ	Ok
18	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048754.D	15 Nov 2024 21:22		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111524AR

Review By	yogesh	Review On	11/15/2024 11:04:58 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:15 AM		
SubDirectory	FD111524AR	HP Acquire Method		HP Processing Method	FD111424AR

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_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

Review By	yogesh	Review On	11/18/2024 12:57:00 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:49:11 PM		
SubDirectory	FD111824AR	HP Acquire Method		HP Processing Method	FD111424AR

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	FD048755.D	18 Nov 2024 07:38		YP/AJ	Ok
2	I.BLK	I.BLK	FD048756.D	18 Nov 2024 08:13		YP/AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048757.D	18 Nov 2024 08:49		YP/AJ	Ok,M
4	P4839-09DL	EX-9-TPH-17DL	FD048758.D	18 Nov 2024 09:25		YP/AJ	Ok
5	P4839-13DL	EX-9-TPH-21DL	FD048759.D	18 Nov 2024 10:02		YP/AJ	Ok
6	P4860-01	DUP-01	FD048760.D	18 Nov 2024 10:38		YP/AJ	Ok
7	P4860-02	PH2-BOT-001	FD048761.D	18 Nov 2024 11:41		YP/AJ	Ok
8	P4839-21	EX-4-TPH-5	FD048762.D	18 Nov 2024 12:18	Need 10X	YP/AJ	Dilution
9	P4839-22	EX-4-TPH-6	FD048763.D	18 Nov 2024 12:55		YP/AJ	Ok
10	I.BLK	I.BLK	FD048764.D	18 Nov 2024 14:15		YP/AJ	Ok
11	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048765.D	18 Nov 2024 14:50		YP/AJ	Ok
12	PB165032BL	PB165032BL	FD048766.D	18 Nov 2024 15:27		YP/AJ	Ok
13	PB165032BS	PB165032BS	FD048767.D	18 Nov 2024 16:03		YP/AJ	Ok,M
14	PB165032BSD	PB165032BSD	FD048768.D	18 Nov 2024 16:39		YP/AJ	Ok,M
15	P4839-22D	P4839-22D	FD048769.D	18 Nov 2024 17:16		YP/AJ	Ok
16	P4839-22MS	EX-4-TPH-6MS	FD048770.D	18 Nov 2024 23:41	FD048763.D	YP/AJ	Ok,M
17	P4839-22MSD	EX-4-TPH-6MSD	FD048771.D	19 Nov 2024 00:17	FD048763.D!FD048770.D	YP/AJ	Ok,M
18	P4860-03	PH2-BOT-002	FD048772.D	19 Nov 2024 00:53		YP/AJ	Ok

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Instrument ID: FID_D

Daily Analysis Runlog For Sequence/QCBatch ID # FD111824AR

Review By	yogesh	Review On	11/18/2024 12:57:00 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:49:11 PM		
SubDirectory	FD111824AR	HP Acquire Method		HP Processing Method	FD111424AR

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	

19	P4860-04	PH2-BOT-003	FD048773.D	19 Nov 2024 02:45		YP/AJ	Ok
20	P4860-06	PH2-BOT-009	FD048774.D	19 Nov 2024 07:59		YP/AJ	Ok
21	P4860-05	PH2-BOT-004	FD048775.D	19 Nov 2024 08:37		YP/AJ	Ok
22	I.BLK	I.BLK	FD048776.D	19 Nov 2024 09:20		YP/AJ	Ok
23	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048777.D	19 Nov 2024 10:04		YP/AJ	Ok
24	P4839-21DL	EX-4-TPH-5DL	FD048778.D	19 Nov 2024 10:40		YP/AJ	Ok
25	I.BLK	I.BLK	FD048779.D	19 Nov 2024 11:17		YP/AJ	Ok
26	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048780.D	19 Nov 2024 11:54		YP/AJ	Ok
27	P4839-02	EX-9-TPH-10	FD048781.D	19 Nov 2024 13:45		YP/AJ	Ok
28	I.BLK	I.BLK	FD048782.D	19 Nov 2024 14:59		YP/AJ	Ok
29	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FD048783.D	19 Nov 2024 15:36		YP/AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE110724AL

Review By	yogesh	Review On	11/6/2024 3:54:26 PM		
Supervise By	Ankita	Supervise On	11/7/2024 8:56:25 AM		
SubDirectory	FE110724AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051073.D	06 Nov 2024 15:51		YP\AJ	Ok
2	I.BLK	I.BLK	FE051074.D	06 Nov 2024 16:21		YP\AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FE051075.D	06 Nov 2024 16:52		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE051076.D	06 Nov 2024 17:22		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051077.D	06 Nov 2024 17:52		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE051078.D	06 Nov 2024 18:22		YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE051079.D	06 Nov 2024 18:53		YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051080.D	06 Nov 2024 19:23		YP\AJ	Ok
9	I.BLK	I.BLK	FE051081.D	06 Nov 2024 20:23		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051082.D	06 Nov 2024 20:54		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111524AL

Review By	yogesh	Review On	11/15/2024 11:06:13 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:34 AM		
SubDirectory	FE111524AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051249.D	15 Nov 2024 06:36		YP\AJ	Ok
2	I.BLK	I.BLK	FE051250.D	15 Nov 2024 07:06		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051251.D	15 Nov 2024 07:36		YP\AJ	Ok
4	P4835-04DL	345-2-STONE-E2DL	FE051252.D	15 Nov 2024 08:16		YP\AJ	Ok
5	P4836-03DL	T3-STONEDL	FE051253.D	15 Nov 2024 08:46	Need more dilution	YP\AJ	Dilution
6	P4836-03DL2	T3-STONEDL2	FE051254.D	15 Nov 2024 09:17		YP\AJ	Ok,M
7	P4836-04DL	T3-STONE-E2DL	FE051255.D	15 Nov 2024 09:47	Need more dilution	YP\AJ	Dilution
8	P4836-04DL2	T3-STONE-E2DL2	FE051256.D	15 Nov 2024 10:17		YP\AJ	Ok
9	P4825-02DL	STOCK-PILE-E2DL	FE051257.D	15 Nov 2024 10:47		YP\AJ	Ok
10	P4824-01DL	T-20DL	FE051258.D	15 Nov 2024 11:17		YP\AJ	Ok,M
11	P4824-02DL	T-20-E2DL	FE051259.D	15 Nov 2024 11:47		YP\AJ	Ok
12	I.BLK	I.BLK	FE051260.D	15 Nov 2024 12:47		YP\AJ	Ok
13	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051261.D	15 Nov 2024 13:17		YP\AJ	Ok
14	P4839-01	EX-9-TPH-9	FE051262.D	15 Nov 2024 14:48	Need 10X	YP\AJ	Dilution
15	P4839-02	EX-9-TPH-10	FE051263.D	15 Nov 2024 15:18	Need 5X	YP\AJ	Dilution
16	P4839-03	EX-9-TPH-11	FE051264.D	15 Nov 2024 15:48	Need 5X	YP\AJ	Dilution
17	P4839-04	EX-9-TPH-12	FE051265.D	15 Nov 2024 16:18		YP\AJ	Ok
18	P4839-05	EX-9-TPH-13	FE051266.D	15 Nov 2024 16:48	Need 10X	YP\AJ	Dilution

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111524AL

Review By	yogesh	Review On	11/15/2024 11:06:13 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:34 AM		
SubDirectory	FE111524AL	HP Acquire Method		HP Processing Method	FE110724AL

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	P4839-06	EX-9-TPH-14	FE051267.D	15 Nov 2024 17:18	Need 20X	YP\AJ	Dilution
20	P4839-14	EX-10-TPH-1	FE051268.D	15 Nov 2024 17:48		YP\AJ	Ok
21	P4839-15	EX-10-TPH-2	FE051269.D	15 Nov 2024 18:19	Need 10X	YP\AJ	Dilution
22	P4839-16	EX-10-TPH-3	FE051270.D	15 Nov 2024 18:49		YP\AJ	Ok
23	P4839-17	EX-4-TPH-1	FE051271.D	15 Nov 2024 19:19		YP\AJ	Ok
24	P4839-18	EX-4-TPH-2	FE051272.D	15 Nov 2024 19:49		YP\AJ	Ok
25	P4839-19	EX-4-TPH-3	FE051273.D	15 Nov 2024 20:19		YP\AJ	Ok
26	P4839-20	EX-4-TPH-4	FE051274.D	15 Nov 2024 20:50		YP\AJ	Ok
27	I.BLK	I.BLK	FE051275.D	15 Nov 2024 22:20		YP\AJ	Ok
28	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051276.D	15 Nov 2024 23:21		YP\AJ	Ok
29	P4857-03	VNJ-226	FE051277.D	15 Nov 2024 23:51		YP\AJ	Ok
30	P4857-04	VNJ-226-E2	FE051278.D	16 Nov 2024 00:21		YP\AJ	Ok
31	P4859-01	NB-08-111424	FE051279.D	16 Nov 2024 00:52		YP\AJ	Ok
32	P4859-02	NB-08-111424-E2	FE051280.D	16 Nov 2024 01:22		YP\AJ	Ok
33	P4870-01	TP-1	FE051281.D	16 Nov 2024 01:53		YP\AJ	Ok
34	P4870-02	TP-1-EPH	FE051282.D	16 Nov 2024 02:23		YP\AJ	Ok
35	P4870-04	MH-735	FE051283.D	16 Nov 2024 02:53		YP\AJ	Ok
36	P4870-05	MH-735-EPH	FE051284.D	16 Nov 2024 03:24		YP\AJ	Ok
37	P4870-07	MH-736	FE051285.D	16 Nov 2024 03:54		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111524AL

Review By	yogesh	Review On	11/15/2024 11:06:13 AM		
Supervise By	Ankita	Supervise On	11/18/2024 10:47:34 AM		
SubDirectory	FE111524AL	HP Acquire Method		HP Processing Method	FE110724AL

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	

38	P4870-08	MH-736-EPH	FE051286.D	16 Nov 2024 04:24		YP\AJ	Ok
39	P4870-10	TP-15	FE051287.D	16 Nov 2024 04:54		YP\AJ	Ok
40	P4870-11	TP-15-EPH	FE051288.D	16 Nov 2024 05:25		YP\AJ	Ok
41	P4850-01	OR-03-11142024	FE051289.D	16 Nov 2024 05:55	Need 10X	YP\AJ	Dilution
42	P4850-02	OR-03-11142024-E2	FE051290.D	16 Nov 2024 06:25	Need 10X	YP\AJ	Dilution
43	P4851-01	OK-02-11142024	FE051291.D	16 Nov 2024 06:55	Need 5X	YP\AJ	Dilution
44	P4851-02	OK-02-11142024-E2	FE051292.D	16 Nov 2024 07:25	Need 10X	YP\AJ	Dilution
45	P4857-01	ETGI-328	FE051293.D	16 Nov 2024 07:55	Need 5X,500X	YP\AJ	Dilution
46	P4857-02	ETGI-328-E2	FE051294.D	16 Nov 2024 08:25	Need 5X,500X	YP\AJ	Dilution
47	I.BLK	I.BLK	FE051295.D	16 Nov 2024 09:56		YP\AJ	Ok
48	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051296.D	16 Nov 2024 10:26		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111824AL

Review By	yogesh	Review On	11/18/2024 12:58:01 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:50:11 PM		
SubDirectory	FE111824AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051297.D	18 Nov 2024 07:50		YP\AJ	Ok
2	I.BLK	I.BLK	FE051298.D	18 Nov 2024 08:20		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051299.D	18 Nov 2024 08:50		YP\AJ	Ok,M
4	P4839-01DL	EX-9-TPH-9DL	FE051300.D	18 Nov 2024 09:21		YP\AJ	Ok,M
5	P4839-02DL	EX-9-TPH-10DL	FE051301.D	18 Nov 2024 09:51		YP\AJ	Ok
6	P4839-03DL	EX-9-TPH-11DL	FE051302.D	18 Nov 2024 10:21		YP\AJ	Ok
7	P4839-05DL	EX-9-TPH-13DL	FE051303.D	18 Nov 2024 10:51		YP\AJ	Ok
8	P4839-06DL	P4839-06DL	FE051304.D	18 Nov 2024 11:21	not required	YP\AJ	Not Ok
9	P4839-15DL	P4839-15DL	FE051305.D	18 Nov 2024 11:52	not required	YP\AJ	Not Ok
10	I.BLK	I.BLK	FE051306.D	18 Nov 2024 12:22		YP\AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051307.D	18 Nov 2024 12:52		YP\AJ	Ok,M
12	PB165034BL	PB165034BL	FE051308.D	18 Nov 2024 13:52		YP\AJ	Ok
13	PB165034BS	PB165034BS	FE051309.D	18 Nov 2024 14:22		YP\AJ	Ok
14	PB165034BSD	PB165034BSD	FE051310.D	18 Nov 2024 14:52		YP\AJ	Ok
15	P4869-01	EO-02-11152024	FE051311.D	18 Nov 2024 15:22	need 5x dilution	YP\AJ	Dilution
16	P4869-02	EO-02-11152024-E2	FE051312.D	18 Nov 2024 15:52	need 5x dilution	YP\AJ	Dilution
17	P4887-01	MH-739	FE051313.D	18 Nov 2024 16:22		YP\AJ	Ok
18	P4887-01D	MH-739D	FE051314.D	18 Nov 2024 16:53		YP\AJ	Ok

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Daily Analysis Runlog For Sequence/QCBatch ID # FE111824AL

Review By	yogesh	Review On	11/18/2024 12:58:01 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:50:11 PM		
SubDirectory	FE111824AL	HP Acquire Method		HP Processing Method	FE110724AL

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	P4857-01DL	ETGI-328DL	FE051315.D	18 Nov 2024 17:23	need further dilution	YP\AJ	Dilution
20	P4857-01DL2	ETGI-328DL2	FE051316.D	18 Nov 2024 17:53	not required	YP\AJ	Not Ok
21	P4857-02DL	ETGI-328-E2DL	FE051317.D	18 Nov 2024 18:23	need further dilution	YP\AJ	Dilution
22	P4857-02DL2	ETGI-328-E2DL2	FE051318.D	18 Nov 2024 18:52	not required	YP\AJ	Not Ok
23	P4887-01MS	MH-739MS	FE051319.D	18 Nov 2024 19:23	FE051313.D	YP\AJ	Ok,M
24	P4887-01MSD	MH-739MSD	FE051320.D	18 Nov 2024 19:52	FE051313.D!FE051319.D	YP\AJ	Ok,M
25	P4887-03	MH-739-EPH	FE051321.D	18 Nov 2024 20:22		YP\AJ	Ok
26	P4887-05	MH-760	FE051322.D	18 Nov 2024 20:53		YP\AJ	Ok,M
27	P4887-07	MH-760-EPH	FE051323.D	18 Nov 2024 21:23		YP\AJ	Ok
28	P4889-01	VNJ-228	FE051324.D	18 Nov 2024 21:53		YP\AJ	Ok,M
29	P4889-03	#72-11978	FE051325.D	18 Nov 2024 22:23		YP\AJ	Ok
30	P4889-05	#72-11930	FE051326.D	18 Nov 2024 22:53		YP\AJ	Ok
31	I.BLK	I.BLK	FE051327.D	18 Nov 2024 23:53		YP\AJ	Ok
32	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051328.D	19 Nov 2024 00:23		YP\AJ	Ok
33	P4850-01DL	OR-03-11142024DL	FE051329.D	19 Nov 2024 01:23		YP\AJ	Ok,M
34	P4850-02DL	OR-03-11142024-E2DL	FE051330.D	19 Nov 2024 01:53		YP\AJ	Ok,M
35	P4851-01DL	OK-02-11142024DL	FE051331.D	19 Nov 2024 02:23		YP\AJ	Ok,M
36	P4851-02DL	OK-02-11142024-E2DL	FE051332.D	19 Nov 2024 02:54		YP\AJ	Ok,M
37	I.BLK	I.BLK	FE051333.D	19 Nov 2024 03:54		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111824AL

Review By	yogesh	Review On	11/18/2024 12:58:01 PM		
Supervise By	Ankita	Supervise On	11/19/2024 4:50:11 PM		
SubDirectory	FE111824AL	HP Acquire Method		HP Processing Method	FE110724AL

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	

38	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051334.D	19 Nov 2024 04:25		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111924AL

Review By	yogesh	Review On	11/19/2024 12:18:08 PM		
Supervise By	Ankita	Supervise On	11/20/2024 11:53:36 AM		
SubDirectory	FE111924AL	HP Acquire Method		HP Processing Method	FE110724AL

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	FE051335.D	19 Nov 2024 05:55		YP\AJ	Ok
2	I.BLK	I.BLK	FE051336.D	19 Nov 2024 06:25		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051337.D	19 Nov 2024 06:55		YP\AJ	Ok
4	P4857-01DL2	ETGI-328DL2	FE051338.D	19 Nov 2024 07:57		YP\AJ	Ok
5	P4857-02DL2	ETGI-328-E2DL2	FE051339.D	19 Nov 2024 08:28		YP\AJ	Ok
6	P4869-01DL	EO-02-11152024DL	FE051340.D	19 Nov 2024 08:58		YP\AJ	Ok,M
7	P4869-02DL	EO-02-11152024-E2DL	FE051341.D	19 Nov 2024 09:27		YP\AJ	Ok,M
8	P4839-06DL	EX-9-TPH-14DL	FE051342.D	19 Nov 2024 09:57		YP\AJ	Ok,M
9	P4839-15DL	EX-10-TPH-2DL	FE051343.D	19 Nov 2024 10:27		YP\AJ	Ok,M
10	I.BLK	I.BLK	FE051344.D	19 Nov 2024 11:28		YP\AJ	Ok
11	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051345.D	19 Nov 2024 11:58		YP\AJ	Ok,M
12	P4893-01	MH-763	FE051346.D	19 Nov 2024 14:06		YP\AJ	Ok,M
13	P4893-02	MH-763-EPH	FE051347.D	19 Nov 2024 14:36		YP\AJ	Ok
14	P4893-05	MH-762	FE051348.D	19 Nov 2024 15:06		YP\AJ	Ok
15	P4893-06	MH-762-EPH	FE051349.D	19 Nov 2024 15:37		YP\AJ	Ok
16	P4908-01	SP-1	FE051350.D	19 Nov 2024 16:07		YP\AJ	Ok,M
17	P4908-02	SP-1-E2	FE051351.D	19 Nov 2024 16:37		YP\AJ	Ok,M
18	P4908-03	SP-2	FE051352.D	19 Nov 2024 17:07		YP\AJ	Ok

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Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QCBatch ID # FE111924AL

Review By	yogesh	Review On	11/19/2024 12:18:08 PM		
Supervise By	Ankita	Supervise On	11/20/2024 11:53:36 AM		
SubDirectory	FE111924AL	HP Acquire Method		HP Processing Method	FE110724AL

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	P4908-04	SP-2-E2	FE051353.D	19 Nov 2024 17:37		YP\AJ	Ok
20	P4910-05	MH-759	FE051354.D	19 Nov 2024 18:07		YP\AJ	Ok,M
21	P4910-06	MH-759-EPH	FE051355.D	19 Nov 2024 18:37		YP\AJ	Ok,M
22	I.BLK	I.BLK	FE051356.D	19 Nov 2024 19:38		YP\AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE051357.D	19 Nov 2024 20:08		YP\AJ	Ok,M

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111524AR

Review By	yogesh	Review On	11/14/2024 3:44:42 PM		
Supervise By	Ankita	Supervise On	11/15/2024 9:15:19 AM		
SubDirectory	FF111524AR	HP Acquire Method		HP Processing Method	FF111524AR

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	FF015041.D	14 Nov 2024 16:37		YP\AJ	Ok
2	I.BLK	I.BLK	FF015042.D	14 Nov 2024 17:05		YP\AJ	Ok
3	100 PPM AROMATIC H	100 PPM AROMATIC H	FF015043.D	14 Nov 2024 17:34		YP\AJ	Ok
4	50 PPM AROMATIC HC	50 PPM AROMATIC HC	FF015044.D	14 Nov 2024 18:02		YP\AJ	Ok
5	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015045.D	14 Nov 2024 18:30		YP\AJ	Ok
6	10 PPM AROMATIC HC	10 PPM AROMATIC HC	FF015046.D	14 Nov 2024 18:58		YP\AJ	Ok
7	5 PPM AROMATIC HC	5 PPM AROMATIC HC	FF015047.D	14 Nov 2024 19:27		YP\AJ	Ok
8	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015048.D	14 Nov 2024 19:55		YP\AJ	Ok
9	I.BLK	I.BLK	FF015049.D	14 Nov 2024 20:52		YP\AJ	Ok
10	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015050.D	14 Nov 2024 21:20		YP\AJ	Ok

M : Manual Integration

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111624AR

Review By	yogesh	Review On	11/15/2024 11:07:25 AM		
Supervise By	Ankita	Supervise On	11/18/2024 1:19:31 PM		
SubDirectory	FF111624AR	HP Acquire Method		HP Processing Method	FF111524AR

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	FF015051.D	15 Nov 2024 09:28		YP\AJ	Ok
2	I.BLK	I.BLK	FF015052.D	15 Nov 2024 09:56		YP\AJ	Ok
3	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015053.D	15 Nov 2024 10:24		YP\AJ	Ok
4	P4839-01	EX-9-TPH-9	FF015054.D	15 Nov 2024 11:53	Need 5X	YP\AJ	Dilution
5	P4839-02	P4839-02	FF015055.D	15 Nov 2024 12:21	surrogate fail	YP\AJ	ReRun
6	P4839-03	EX-9-TPH-11	FF015056.D	15 Nov 2024 12:49		YP\AJ	Ok
7	P4839-04	EX-9-TPH-12	FF015057.D	15 Nov 2024 13:18		YP\AJ	Ok
8	P4839-05	EX-9-TPH-13	FF015058.D	15 Nov 2024 13:46	Need 5X	YP\AJ	Dilution
9	P4839-06	EX-9-TPH-14	FF015059.D	15 Nov 2024 14:14	Need 10X	YP\AJ	Dilution
10	P4839-14	EX-10-TPH-1	FF015060.D	15 Nov 2024 14:43		YP\AJ	Ok
11	P4839-15	EX-10-TPH-2	FF015061.D	15 Nov 2024 15:11	Need 2X	YP\AJ	Dilution
12	P4839-16	EX-10-TPH-3	FF015062.D	15 Nov 2024 15:39		YP\AJ	Ok
13	P4839-17	EX-4-TPH-1	FF015063.D	15 Nov 2024 16:08		YP\AJ	Ok
14	P4839-18	EX-4-TPH-2	FF015064.D	15 Nov 2024 16:36		YP\AJ	Ok
15	P4839-19	EX-4-TPH-3	FF015065.D	15 Nov 2024 17:04		YP\AJ	Ok
16	P4839-20	EX-4-TPH-4	FF015066.D	15 Nov 2024 17:33		YP\AJ	Ok
17	I.BLK	I.BLK	FF015067.D	15 Nov 2024 18:30		YP\AJ	Ok
18	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015068.D	15 Nov 2024 18:58		YP\AJ	Ok,M

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Instrument ID: FID_F

Daily Analysis Runlog For Sequence/QCBatch ID # FF111624AR

Review By	yogesh	Review On	11/15/2024 11:07:25 AM		
Supervise By	Ankita	Supervise On	11/18/2024 1:19:31 PM		
SubDirectory	FF111624AR	HP Acquire Method		HP Processing Method	FF111524AR

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	

19	P4839-01DL	EX-9-TPH-9DL	FF015069.D	15 Nov 2024 20:23		YP\AJ	Ok
20	P4839-05DL	EX-9-TPH-13DL	FF015070.D	15 Nov 2024 20:51		YP\AJ	Ok,M
21	P4839-06DL	EX-9-TPH-14DL	FF015071.D	15 Nov 2024 21:20		YP\AJ	Ok,M
22	P4839-15DL	EX-10-TPH-2DL	FF015072.D	15 Nov 2024 21:48		YP\AJ	Ok,M
23	P4839-17DL	P4839-17DL	FF015073.D	15 Nov 2024 22:17	not required	YP\AJ	Not Ok
24	I.BLK	I.BLK	FF015074.D	15 Nov 2024 23:14		YP\AJ	Ok
25	20 PPM AROMATIC HC	20 PPM AROMATIC HC	FF015075.D	15 Nov 2024 23:42		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:50
In Date: 11/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133451

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
P4839-01	EX-9-TPH-9	1	1.14	8.58	9.72	8.44	85.1	
P4839-02	EX-9-TPH-10	2	1.15	8.54	9.69	8.61	87.4	
P4839-03	EX-9-TPH-11	3	1.18	8.53	9.71	8.55	86.4	
P4839-04	EX-9-TPH-12	4	1.15	8.82	9.97	8.85	87.3	
P4839-05	EX-9-TPH-13	5	1.12	8.70	9.82	8.64	86.4	
P4839-06	EX-9-TPH-14	6	1.15	8.82	9.97	8.9	87.9	
P4839-07	EX-9-TPH-15	7	1.15	8.40	9.55	8.1	82.7	
P4839-08	EX-9-TPH-16	8	1.15	8.83	9.98	8.54	83.7	
P4839-09	EX-9-TPH-17	9	1.15	8.82	9.97	9.06	89.7	
P4839-10	EX-9-TPH-18	10	1.12	8.87	9.99	8.13	79.0	
P4839-11	EX-9-TPH-19	11	1.16	8.73	9.89	8.43	83.3	
P4839-12	EX-9-TPH-20	12	1.14	8.80	9.94	8.11	79.2	
P4839-13	EX-9-TPH-21	13	1.16	8.47	9.63	7.99	80.6	
P4839-14	EX-10-TPH-1	14	1.14	8.56	9.7	8.41	84.9	
P4839-15	EX-10-TPH-2	15	1.18	8.80	9.98	8.57	84.0	
P4839-16	EX-10-TPH-3	16	1.17	8.60	9.77	7.84	77.6	
P4839-17	EX-4-TPH-1	17	1.13	8.80	9.93	8.51	83.9	
P4839-18	EX-4-TPH-2	18	1.13	8.81	9.94	8.69	85.8	
P4839-19	EX-4-TPH-3	19	1.15	8.82	9.97	8.58	84.2	
P4839-20	EX-4-TPH-4	20	1.17	8.40	9.57	8.22	83.9	
P4839-21	EX-4-TPH-5	21	1.18	8.81	9.99	8.65	84.8	
P4839-22	EX-4-TPH-6	22	1.15	8.82	9.97	9.04	89.5	
P4848-01	TP-1	26	1.17	8.58	9.75	8.49	85.3	
P4849-01	RR-1	27	1.18	8.64	9.82	8.88	89.1	
P4850-01	OR-03-11142024	28	1.15	8.53	9.68	9.11	93.3	
P4850-02	OR-03-11142024-E2	29	1.18	8.60	9.78	8.81	88.7	
P4852-01	COMP-1	23	1.16	8.45	9.61	8.19	83.2	
P4852-02	COMP-2	24	1.17	8.60	9.77	8.17	81.4	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/15/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:50
In Date: 11/14/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 11/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133451

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
P4852-03	COMP-3	25	1.15	8.81	9.96	8.94	88.4	
P4857-01	ETGI-328	30	1.16	8.50	9.66	8.75	89.3	
P4857-02	ETGI-328-E2	31	1.00	1.00	2.00	2.00	100.0	debris
P4857-03	VNJ-226	32	1.18	8.72	9.9	9.37	93.9	
P4857-04	VNJ-226-E2	33	1.15	8.76	9.91	9.38	93.9	
P4858-01	BC258780-1-1	34	1.00	1.00	2.00	2.00	100.0	pilc
P4858-02	BC258780-1-2	35	1.00	1.00	2.00	2.00	100.0	pilc
P4858-03	BC258780-2-1	36	1.00	1.00	2.00	2.00	100.0	pilc
P4858-04	BC258780-2-2	37	1.00	1.00	2.00	2.00	100.0	pilc
P4858-05	HIH269B-1-1	38	1.00	1.00	2.00	2.00	100.0	pilc
P4858-06	HIH269B-1-2	39	1.00	1.00	2.00	2.00	100.0	pilc
P4858-07	BC225734-1-1	40	1.00	1.00	2.00	2.00	100.0	pilc
P4858-08	BC225734-1-2	41	1.00	1.00	2.00	2.00	100.0	pilc
P4858-09	BC225734-2-1	42	1.00	1.00	2.00	2.00	100.0	pilc
P4858-10	BC225734-2-2	43	1.00	1.00	2.00	2.00	100.0	pilc
P4858-11	BC248150-1-1	44	1.00	1.00	2.00	2.00	100.0	pilc
P4858-12	BC248150-1-2	45	1.00	1.00	2.00	2.00	100.0	pilc
P4858-13	Y2309-0044-1-1	46	1.00	1.00	2.00	2.00	100.0	pilc
P4858-14	Y2309-0044-1-2	47	1.00	1.00	2.00	2.00	100.0	pilc
P4858-15	BC274768-1-1	48	1.00	1.00	2.00	2.00	100.0	pilc
P4858-16	BC274768-1-2	49	1.00	1.00	2.00	2.00	100.0	pilc
P4858-17	BC274601-1-1	50	1.00	1.00	2.00	2.00	100.0	pilc
P4858-18	BC274601-1-2	51	1.00	1.00	2.00	2.00	100.0	pilc
P4859-01	NB-08-111424	52	1.18	8.54	9.72	9.03	91.9	
P4859-02	NB-08-111424-E2	53	1.19	8.52	9.71	9.04	92.1	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 133451

WorkList Name : %1-111424 **WorkList ID :** 185415 **Department :** Wet-Chemistry **Date :** 11-14-2024 07:57:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-01	EX-9-TPH-9	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-02	EX-9-TPH-10	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-03	EX-9-TPH-11	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-04	EX-9-TPH-12	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-05	EX-9-TPH-13	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-06	EX-9-TPH-14	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-07	EX-9-TPH-15	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-08	EX-9-TPH-16	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-09	EX-9-TPH-17	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-10	EX-9-TPH-18	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-11	EX-9-TPH-19	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-12	EX-9-TPH-20	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-13	EX-9-TPH-21	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-14	EX-10-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-15	EX-10-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-16	EX-10-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-17	EX-4-TPH-1	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-18	EX-4-TPH-2	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-19	EX-4-TPH-3	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-20	EX-4-TPH-4	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4839-21	EX-4-TPH-5	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO

Date/Time 11-14-24 16:10

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: RS (Ext-Lab)

Date/Time 11-14-24 17:10

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: JD (WC)

WORKLIST(Hardcopy Internal Chain)

VB 133451

WorkList Name : %1-111424 **WorkList ID :** 185415 **Department :** Wet-Chemistry **Date :** 11-14-2024 07:57:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-22	EX-4-TPH-6	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	11/13/2024	Chemtech -SO
P4848-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4849-01	RR-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	11/14/2024	Chemtech -SO
P4850-01	OR-03-11142024	Solid	Percent Solids	Cool 4 deg C	PSEG05	L11	11/14/2024	Chemtech -SO
P4850-02	OR-03-11142024-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L11	11/14/2024	Chemtech -SO
P4852-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	L41	11/13/2024	Chemtech -SO
P4852-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	L41	11/13/2024	Chemtech -SO
P4852-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	L41	11/13/2024	Chemtech -SO
P4857-01	ETGI-328	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4857-02	ETGI-328-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4857-03	VNJ-226	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4857-04	VNJ-226-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	11/14/2024	Chemtech -SO
P4858-01	BC258780-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-02	BC258780-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-03	BC258780-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-04	BC258780-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-05	HIH269B-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-06	HIH269B-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-07	BC225734-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-08	BC225734-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-09	BC225734-2-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO

Date/Time 11-14-24 16:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: RS (ESC Lab)

Date/Time 11-24-24 17:10

Raw Sample Received by: RS (ESC Lab)

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

JB 133451

WorkList Name : %1-111424 **WorkList ID :** 185415 **Department :** Wet-Chemistry **Date :** 11-14-2024 07:57:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4858-10	BC225734-2-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-11	BC248150-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-12	BC248150-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-13	Y2309-0044-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-14	Y2309-0044-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-15	BC274768-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-16	BC274768-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-17	BC274601-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4858-18	BC274601-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	11/14/2024	Chemtech -SO
P4859-01	NB-08-111424	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO
P4859-02	NB-08-111424-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	11/14/2024	Chemtech -SO

Date/Time 11-14-24 1610

Raw Sample Received by: [signature]

Raw Sample Relinquished by: RS (Ext-Lab)

Date/Time 11-14-24 1710

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164996

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/14/2024
Matrix :	Solid			**Extraction Start Time :**	14:15
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/15/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	11:25
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	PP23916
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23948
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Hexane	N/A	E3826
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML 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
11/15/24	RP (Left 104)	T. P. Pest/MCB
11:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164996

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 11/15/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164996BL	PB164996BL	EPH	30.01	N/A	ritesh	Evelyn	2			U5-1
PB164996BS	PB164996BS	EPH	30.02	N/A	ritesh	Evelyn	2			2
PB164996BSD	PB164996BSD	EPH	30.02	N/A	ritesh	Evelyn	2			3
P4839-01	EX-9-TPH-9	EPH	30.06	N/A	ritesh	Evelyn	2			4
P4839-02	EX-9-TPH-10	EPH	30.09	N/A	ritesh	Evelyn	2			5
P4839-03	EX-9-TPH-11	EPH	30.07	N/A	ritesh	Evelyn	2			6
P4839-04	EX-9-TPH-12	EPH	30.03	N/A	ritesh	Evelyn	2			U1-1
P4839-05	EX-9-TPH-13	EPH	30.01	N/A	ritesh	Evelyn	2			2
P4839-06	EX-9-TPH-14	EPH	30.05	N/A	ritesh	Evelyn	2			3
P4839-07	EX-9-TPH-15	EPH	30.08	N/A	ritesh	Evelyn	2			4
P4839-07DUP	EX-9-TPH-15DUP	EPH	30.06	N/A	ritesh	Evelyn	2			5
P4839-07MS	EX-9-TPH-15MS	EPH	30.02	N/A	ritesh	Evelyn	2			6
P4839-07MSD	EX-9-TPH-15MSD	EPH	30.05	N/A	ritesh	Evelyn	2			U6-1
P4839-08	EX-9-TPH-16	EPH	30.09	N/A	ritesh	Evelyn	2			2
P4839-09	EX-9-TPH-17	EPH	30.03	N/A	ritesh	Evelyn	2			3
P4839-10	EX-9-TPH-18	EPH	30.02	N/A	ritesh	Evelyn	2			4
P4839-11	EX-9-TPH-19	EPH	30.05	N/A	ritesh	Evelyn	2			5
P4839-12	EX-9-TPH-20	EPH	30.04	N/A	ritesh	Evelyn	2			6
P4839-13	EX-9-TPH-21	EPH	30.07	N/A	ritesh	Evelyn	2			U7-1
P4839-14	EX-10-TPH-1	EPH	30.01	N/A	ritesh	Evelyn	2			2
P4839-15	EX-10-TPH-2	EPH	30.06	N/A	ritesh	Evelyn	2			3
P4839-16	EX-10-TPH-3	EPH	30.09	N/A	ritesh	Evelyn	2			4
P4839-17	EX-4-TPH-1	EPH	30.05	N/A	ritesh	Evelyn	2			5
P4839-18	EX-4-TPH-2	EPH	30.02	N/A	ritesh	Evelyn	2			6
P4839-19	EX-4-TPH-3	EPH	30.03	N/A	ritesh	Evelyn	2			U4-1
P4839-20	EX-4-TPH-4	EPH	30.08	N/A	ritesh	Evelyn	2			2

* **Extracts relinguished on the same date as received.**

11/15/24

164996
14:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4839N **WorkList ID :** 185457 **Department :** Extraction **Date :** 11-14-202414:11:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-01	EX-9-TPH-9	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-02	EX-9-TPH-10	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-03	EX-9-TPH-11	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-04	EX-9-TPH-12	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-05	EX-9-TPH-13	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-06	EX-9-TPH-14	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-07	EX-9-TPH-15	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-08	EX-9-TPH-16	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-09	EX-9-TPH-17	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-10	EX-9-TPH-18	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-11	EX-9-TPH-19	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-12	EX-9-TPH-20	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-13	EX-9-TPH-21	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-14	EX-10-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-15	EX-10-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-16	EX-10-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-17	EX-4-TPH-1	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-18	EX-4-TPH-2	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-19	EX-4-TPH-3	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-20	EX-4-TPH-4	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH

Date/Time 11/14/24 14:12
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 11/14/24 14:45
Raw Sample Received by:
Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165032

SOP ID:	MNJDEP-EPH-7				
Clean Up SOP #:	N/A			**Extraction Start Date :**	11/16/2024
Matrix :	Solid			**Extraction Start Time :**	09:30
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	11/16/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	16:50
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	PP23916
Surrogate	1.0ML	100 PPM	PP23934
Fractionation Surrogate	1.0ML	100 PPM	PP23948
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Hexane	N/A	E3826
EPH Cartridge	N/A	E3757
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML 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
11/18/24	RP (Ext. Lab)	Y.P.Post 1103.
9:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165032

Analytical Method: MNJDEP-EPH-7 **Concentration Date:** 11/16/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165032BL	PB165032BL	EPH	30.01	N/A	ritesh	Evelyn	2			U5-1
PB165032BS	PB165032BS	EPH	30.02	N/A	ritesh	Evelyn	2			2
PB165032BSD	PB165032BSD	EPH	30.03	N/A	ritesh	Evelyn	2			3
P4839-21	EX-4-TPH-5	EPH	30.06	N/A	ritesh	Evelyn	2	E		4
P4839-22	EX-4-TPH-6	EPH	30.07	N/A	ritesh	Evelyn	2	E		5
P4839-22DUP	EX-4-TPH-6DUP	EPH	30.02	N/A	ritesh	Evelyn	2	E		6
P4839-22MS	EX-4-TPH-6MS	EPH	30.03	N/A	ritesh	Evelyn	2	E		U6-1
P4839-22MSD	EX-4-TPH-6MSD	EPH	30.05	N/A	ritesh	Evelyn	2	E		2
P4860-01	DUP-01	EPH	30.10	N/A	ritesh	Evelyn	2	E		3
P4860-02	PH2-BPT-001	EPH	30.03	N/A	ritesh	Evelyn	2	E		4
P4860-03	PH2-BPT-002	EPH	30.02	N/A	ritesh	Evelyn	2	E		5
P4860-04	PH2-BPT-003	EPH	30.09	N/A	ritesh	Evelyn	2	E		6
P4860-05	PH2-BPT-004	EPH	30.05	N/A	ritesh	Evelyn	2	E		U1-1
P4860-06	PH2-BPT-009	EPH	30.04	N/A	ritesh	Evelyn	2	E		2
P4860-07	PH2-BPT-008	EPH	30.01	N/A	ritesh	Evelyn	2	E		3
P4860-08	PH2-BPT-007	EPH	30.08	N/A	ritesh	Evelyn	2	E		4
P4860-09	PH2-BPT-006	EPH	30.03	N/A	ritesh	Evelyn	2	E		5
P4860-10	PH2-BPT-005	EPH	30.06	N/A	ritesh	Evelyn	2	E		6

* **Extracts relinquished on the same date as received.**

11/16/24

16503
9:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4860N **WorkList ID :** 185500 **Department :** Extraction **Date :** 11-16-2024 08:05:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4839-21	EX-4-TPH-5	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4839-22	EX-4-TPH-6	Solid	EPH	Cool 4 deg C	ENTA05	L31	11/13/2024	NJEPH
P4860-01	DUP-01	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-02	PH2-BPT-001	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-03	PH2-BPT-002	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-04	PH2-BPT-003	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-05	PH2-BPT-004	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-06	PH2-BPT-009	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-07	PH2-BPT-008	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-08	PH2-BPT-007	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-09	PH2-BPT-006	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH
P4860-10	PH2-BPT-005	Solid	EPH	Cool 4 deg C	CORN02	L41	11/14/2024	NJEPH

Date/Time 11/16/24 9:25
Raw Sample Received by: RJ (Client Log)
Raw Sample Relinquished by: [signature]

Date/Time 11/16/24 10:04
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RJ (Client Log)

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Prep Standard - Chemical Standard Summary

Order ID : P4839

Test : EPH

Prepbatch ID : PB164996,PB165032,

Sequence ID/Qc Batch ID: FC111524AL,FC111824AL,FD111524AR,FD111824AR,FE111524AL,FE111824AL,FE111924AL,FF1116

Standard ID :
EP2560,EP2562,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23916,PP23934,PP23948,PP23968,PP23969,PP23970,PP23971,PP23972,PP23973,PP23974,

Chemical ID :
E2865,E3551,E3757,E3789,E3818,E3825,E3826,E3827,E3828,P10260,P11139,P12362,P12972,P12979,P13017,P13023,P13024,P13025,P13046,P13049,P13051,P13098,P13100,P13101,P13102,P13278,P13299,P13423,P13427,P13465,P13472,P13625,P13626,P13627,P13645,P13646,P13647,P13718,P13719,P13720,P13721,P13722,P13723,P13724,P13725,P13726,P13727,P13749,P13753,P13756,P13758,W3110,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2560	11/14/2024	05/08/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/14/2024

FROM 8000.00000ml of E3827 + 8000.00000ml of E3828 = Final Quantity: 16000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2562	11/14/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
781	100 PPM Aliphatic HC Working STD (Restek)	PP23644	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 1.25000ml of P12362 + 23.25000ml of E3789 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2900	100 PPM Aliphatic HC STD (Absolute)	PP23645	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 2.50000ml of P13278 + 22.00000ml of E3789 = Final Quantity: 25.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
783	50 PPM Aliphatic HC STD	PP23646	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.50000ml of E3789 + 0.50000ml of PP23644 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
784	20 PPM Aliphatic HC STD	PP23647	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23644 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
785	10 PPM Aliphatic HC STD	PP23648	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.90000ml of E3789 + 0.10000ml of PP23644 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
786	5 PPM Aliphatic HC STD	PP23649	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.90000ml of E3789 + 0.10000ml of PP23646 = Final Quantity: 1.000 ml

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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)	PP23650	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23645 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1330	100 PPM NJEPH Spike Solution	PP23916	10/25/2024	04/25/2025	Yogesh Patel	None	None	Ankita Jodhani 10/28/2024

FROM 5.00000ml of P13098 + 5.00000ml of P13100 + 5.00000ml of P13101 + 5.00000ml of P13102 + 5.00000ml of P13299 + 5.00000ml of P13423 + 5.00000ml of P13427 + 5.00000ml of P13625 + 5.00000ml of P13626 + 5.00000ml of P13627 + 5.00000ml of P13718 + 5.00000ml of P13719 + 5.00000ml of P13720 + 5.00000ml of P13721 + 5.00000ml of P13722 + 5.00000ml of P13723 + 5.00000ml of P13724 + 5.00000ml of P13725 + 5.00000ml of P13726 + 5.00000ml of P13727 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1339	100 PPM NJEPH Surrogate Spike	PP23934	10/30/2024	04/23/2025	Yogesh Patel	None	None	Ankita Jodhani 11/04/2024

FROM 1.25000ml of P12979 + 1.25000ml of P13023 + 1.25000ml of P13024 + 1.25000ml of P13025 + 1.25000ml of P13046 + 1.25000ml of P13049 + 1.25000ml of P13051 + 1.25000ml of P13645 + 490.00000ml of E3818 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1331	100 PPM NJEPH Fractionating Surrogate	PP23948	11/08/2024	05/08/2025	Yogesh Patel	None	None	Ankita Jodhani 11/08/2024

FROM 1.25000ml of P13749 + 1.25000ml of P13753 + 1.25000ml of P13756 + 1.25000ml of P13758 + 195.00000ml of E3825 = 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
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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	11/06/2025	11/06/2024 / Rajesh	11/01/2024 / Rajesh	E3825

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

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 #
Restek	30541 / Custom NJEPH Aromatics Calibration Standard	A0165529	05/14/2025	11/14/2024 / yogesh	01/26/2021 / dhaval	P10260

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM	060420	05/14/2025	11/14/2024 / yogesh	10/29/2021 / Abdul	P11139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

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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	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	04/30/2025	10/30/2024 / yogesh	12/20/2023 / Yogesh	P12979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13023

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13024

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	04/30/2025	10/30/2024 / yogesh	12/21/2023 / Yogesh	P13025

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13046

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13049

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	04/30/2025	10/30/2024 / yogesh	12/26/2023 / Yogesh	P13051

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0203911	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13101

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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	A0200008	04/25/2025	10/25/2024 / yogesh	01/12/2024 / Yogesh	P13102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	03/09/2025	09/09/2024 / yogesh	04/11/2024 / yogesh	P13278

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	04/23/2024 / yogesh	P13299

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	07/16/2024 / Yogesh	P13423

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0207239	04/25/2025	10/25/2024 / yogesh	07/16/2024 / Yogesh	P13427

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	05/14/2025	11/14/2024 / yogesh	07/23/2024 / yogesh	P13465

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0210831	05/14/2025	11/14/2024 / yogesh	07/23/2024 / yogesh	P13472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	04/25/2025	10/25/2024 / yogesh	10/16/2024 / yogesh	P13627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	04/30/2025	10/30/2024 / yogesh	10/16/2024 / yogesh	P13645

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	05/14/2025	11/14/2024 / yogesh	10/16/2024 / yogesh	P13646

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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	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13719

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13720

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13721

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13722

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13725

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13726

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	04/25/2025	10/25/2024 / yogesh	10/24/2024 / yogesh	P13727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	05/08/2025	11/08/2024 / yogesh	11/01/2024 / yogesh	P13749

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	05/08/2025	11/08/2024 / yogesh	11/01/2024 / yogesh	P13753

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	05/08/2025	11/08/2024 / yogesh	11/01/2024 / yogesh	P13756

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0214879	05/08/2025	11/08/2024 / yogesh	11/01/2024 / yogesh	P13758

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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

DD
06/17/2021

Catalog No. : 30541 **Lot No.:** A0172403

Description : NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

P10758 to P10762 -(5)

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,2,3-Trimethylbenzene **CAS #** 526-73-8 (Lot 8776.10-36) **Purity** 98%	2,010.0 µg/mL	+/- 11.7957 µg/mL +/- 90.5449 µg/mL +/- 100.4678 µg/mL	Gravimetric Unstressed Stressed
2	Naphthalene **CAS #** 91-20-3 (Lot MKBZ8680V) **Purity** 99%	2,006.0 µg/mL	+/- 11.7723 µg/mL +/- 90.3656 µg/mL +/- 100.2689 µg/mL	Gravimetric Unstressed Stressed
3	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBG8884) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 90.4557 µg/mL +/- 100.3688 µg/mL	Gravimetric Unstressed Stressed
4	Acenaphthylene **CAS #** 208-96-8 (Lot N19U) **Purity** 95%	2,002.6 µg/mL	+/- 11.7524 µg/mL +/- 90.2125 µg/mL +/- 100.0989 µg/mL	Gravimetric Unstressed Stressed
5	Acenaphthene **CAS #** 83-32-9 (Lot MKCN0610) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 90.0953 µg/mL +/- 99.9689 µg/mL	Gravimetric Unstressed Stressed
6	Fluorene **CAS #** 86-73-7 (Lot 10217947) **Purity** 99%	2,016.0 µg/mL	+/- 11.8310 µg/mL +/- 90.8161 µg/mL +/- 100.7687 µg/mL	Gravimetric Unstressed Stressed
7	Phenanthrene **CAS #** 85-01-8 (Lot MKCL7390) **Purity** 99%	2,012.0 µg/mL	+/- 11.8075 µg/mL +/- 90.6359 µg/mL +/- 100.5688 µg/mL	Gravimetric Unstressed Stressed

8	Anthracene		2,002.0	µg/mL	+/-	11.7489	µg/mL	Gravimetric
	CAS # 120-12-7	(Lot MKCM0015)			+/-	90.1854	µg/mL	Unstressed
	Purity 99%				+/-	100.0689	µg/mL	Stressed
9	Fluoranthene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 206-44-0	(Lot MKCF7378)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed
10	Pyrene		2,011.0	µg/mL	+/-	11.8017	µg/mL	Gravimetric
	CAS # 129-00-0	(Lot BCCB9880)			+/-	90.5909	µg/mL	Unstressed
	Purity 99%				+/-	100.5188	µg/mL	Stressed
11	Benz(a)anthracene		2,011.0	µg/mL	+/-	11.8014	µg/mL	Gravimetric
	CAS # 56-55-3	(Lot P0022018-0505)			+/-	90.5890	µg/mL	Unstressed
	Purity 98%				+/-	100.5168	µg/mL	Stressed
12	Chrysene		2,000.0	µg/mL	+/-	11.7371	µg/mL	Gravimetric
	CAS # 218-01-9	(Lot STBJ8094)			+/-	90.0953	µg/mL	Unstressed
	Purity 99%				+/-	99.9689	µg/mL	Stressed
13	Benzo(b)fluoranthene		2,006.0	µg/mL	+/-	11.7721	µg/mL	Gravimetric
	CAS # 205-99-2	(Lot 012012B)			+/-	90.3638	µg/mL	Unstressed
	Purity 97%				+/-	100.2669	µg/mL	Stressed
14	Benzo(k)fluoranthene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 207-08-9	(Lot 012019K)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
15	Benzo(a)pyrene		2,004.0	µg/mL	+/-	11.7606	µg/mL	Gravimetric
	CAS # 50-32-8	(Lot RP210113)			+/-	90.2755	µg/mL	Unstressed
	Purity 99%				+/-	100.1689	µg/mL	Stressed
16	Indeno(1,2,3-cd)pyrene		2,010.0	µg/mL	+/-	11.7958	µg/mL	Gravimetric
	CAS # 193-39-5	(Lot 1-RAK-33-4)			+/-	90.5458	µg/mL	Unstressed
	Purity 99%				+/-	100.4688	µg/mL	Stressed
17	Dibenz(a,h)anthracene		2,017.0	µg/mL	+/-	11.8369	µg/mL	Gravimetric
	CAS # 53-70-3	(Lot ER032211-01)			+/-	90.8611	µg/mL	Unstressed
	Purity 99%				+/-	100.8187	µg/mL	Stressed
18	Benzo(g,h,i)perylene		2,003.0	µg/mL	+/-	11.7547	µg/mL	Gravimetric
	CAS # 191-24-2	(Lot 8GFYJ)			+/-	90.2305	µg/mL	Unstressed
	Purity 99%				+/-	100.1189	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

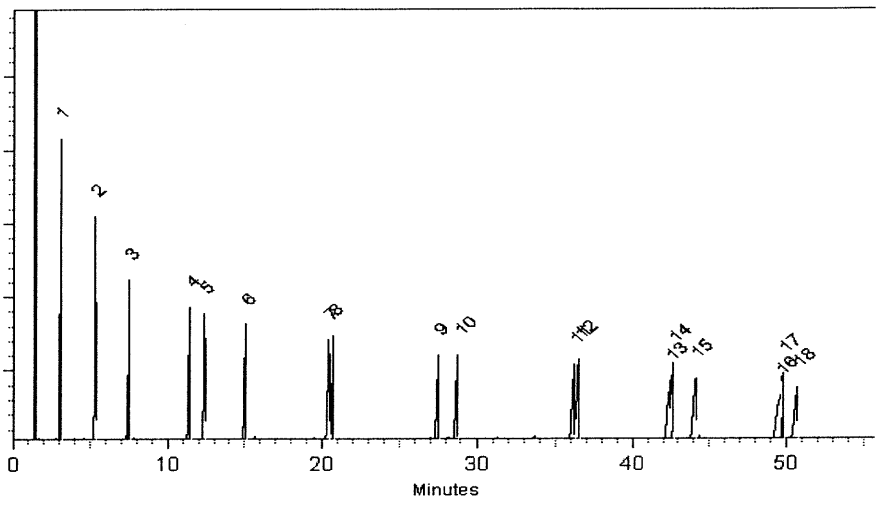
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe - Mix Technician **Date Mixed:** 14-May-2021 **Balance:** B345965662

Alexis Shelow - Operations Tech I **Date Passed:** 18-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551


Cleanert EPH
5g/25ml 15/pkg
固相萃取产品
LOT#:Z0513CK1
MFG#:F04005
Made in China
CAT# SI500025-30
Agela Technologies
E3757

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

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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

E3825

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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

E3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3827

Recd by RP on ~~11/6~~ 11/7/24
RP 11/7

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95709
Lot Number: 060420
Description: NJ EPH Aromatic Hydrocarbons
18 components
Expiration Date: 060425
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 23060

Solvent(s):	Lot#
Methylene chloride	104929

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 500.0 0.058 Flask Uncertainty

Formulated By: Benson Chan	060420 DATE
Reviewed By: Pedro L. Rentas	060420 DATE

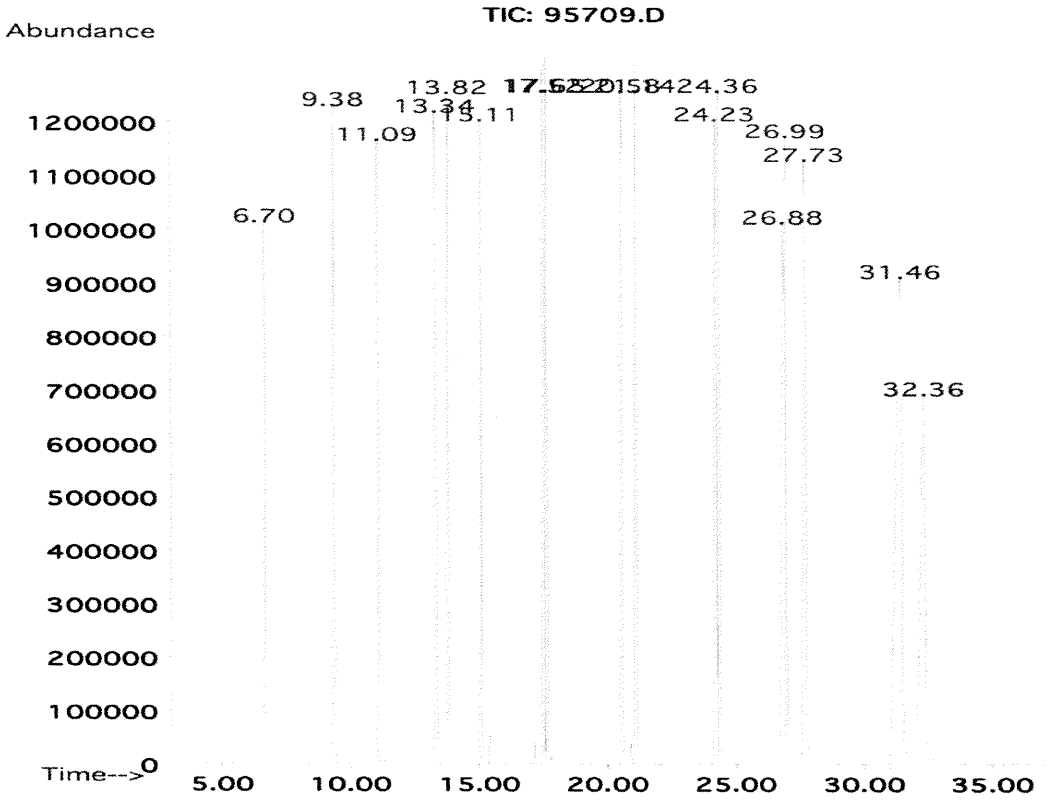
	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acenaphthene	1	MKBJ4871V	2000	99	0.2	1.01003	1.01010	2000.1	8.1	83-32-9	N/A	ipr-rat 600mg/kg
2.	Acenaphthylene	3	012014	2000	98	0.2	1.02033	1.02053	2000.4	8.2	208-96-8	N/A	N/A
3.	Anthracene	13	A0210580	2000	99	0.2	1.01003	1.01009	2000.1	8.1	120-12-7	0.2mg/m3 (8H)	ipr-mus 430mg/kg
4.	Benzo(a)anthracene	28	JY2TD-JT	2000	98	0.2	1.02033	1.02051	2000.3	8.2	56-55-3	N/A	N/A
5.	Benzo(a)pyrene	30	012012	2000	99.5	0.2	1.00495	1.00511	2000.3	8.1	50-32-8	0.2mg/m3 (8H)	scu-rat 50mg/kg
6.	Benzo(b)fluoranthene	31	012012b	2000	99	0.2	1.01003	1.01012	2000.2	8.1	205-99-2	N/A	N/A
7.	Benzo(k)fluoranthene	33	012012k	2000	99	0.2	1.01003	1.01018	2000.3	8.1	207-08-9	N/A	N/A
8.	Benzo(g,h,i)perylene	32	012018	2000	99	0.2	1.01003	1.01019	2000.3	8.1	191-24-2	N/A	N/A
9.	Chrysene	91	012015	2000	98	0.2	1.02033	1.02040	2000.1	8.2	218-01-9	0.2mg/m3	N/A
10.	Dibenzo(a,h)anthracene	112	012011	2000	98	0.2	1.02033	1.02050	2000.3	8.2	53-70-3	0.2mg/m3	N/A
11.	Fluoranthene	183	04221PV	2000	98	0.2	1.02033	1.02050	2000.3	8.2	206-44-0	N/A	orl-rat 2000mg/kg
12.	Fluorene	184	07211MV	2000	98	0.2	1.02033	1.02047	2000.3	8.2	86-73-7	N/A	ipr-mus 2 g/kg
13.	Indeno(1,2,3-cd)pyrene	202	012014	2000	99.9	0.2	1.00093	1.00119	2000.5	8.0	193-39-5	N/A	N/A
14.	2-Methylnaphthalene	214	MKBF3783V	2000	97	0.2	1.03085	1.03090	2000.1	8.3	91-57-6	N/A	orl-rat 1630mg/kg
15.	Naphthalene	222	MKBZ8680V	2000	100	0.2	0.99993	0.99999	2000.1	8.0	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
16.	Phenanthrene	248	03410PV	2000	99	0.2	1.01003	1.01030	2000.5	8.1	85-01-8	0.2mg/m3/8H	orl-mus 700mg/kg
17.	Pyrene	259	010197	2000	98	0.2	1.02033	1.02042	2000.2	8.2	129-00-0	0.2mg/m3/8H	orl-rat 2700mg/kg
18.	1,2,3-Trimethylbenzene	944	031097	2000	99	0.2	1.01003	1.01025	2000.4	8.1	526-73-8	N/A	N/A

P11137
&
P11141

AR 11/02/21

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC8MSD-2.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



Peak No.	Name	MSD RT (min.)
1	1,2,3-Trimethylbenzene	6.70
2	Naphthalene	9.38
3	2-Methylnaphthalene	11.09
4	Acenaphthylene	13.34
5	Acenaphthene	13.82
6	Fluorene	15.11
7	Phenanthrene	17.52
8	Anthracene	17.65
9	Fluoranthene	20.58
10	Pyrene	21.14
11	Chrysene	24.23
12	Benzo(a)anthracene	24.36
13	Benzo(b)fluoranthene/Benzo(k)fluoranthene	26.98
14	Benzo(a)pyrene	27.73
15	Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene	31.46
16	Benzo(g,h,i)perylene	32.36

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12361 ↓ P12370 } Y.P. 03/16/23

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) **CAS #** 111-84-2 (Lot SHBN5361) **Purity** 99%	2,014.0 µg/mL	+/- 11.8193 µg/mL +/- 50.0027 µg/mL +/- 59.9491 µg/mL	Gravimetric Unstressed Stressed
2	n-Decane (C10) **CAS #** 124-18-5 (Lot SHBN8619) **Purity** 99%	2,014.7 µg/mL	+/- 11.8232 µg/mL +/- 50.0193 µg/mL +/- 59.9689 µg/mL	Gravimetric Unstressed Stressed
3	Naphthalene **CAS #** 91-20-3 (Lot MKCH0219) **Purity** 99%	2,015.3 µg/mL	+/- 11.8271 µg/mL +/- 50.0358 µg/mL +/- 59.9888 µg/mL	Gravimetric Unstressed Stressed
4	n-Dodecane (C12) **CAS #** 112-40-3 (Lot SHBN7174) **Purity** 99%	2,008.0 µg/mL	+/- 11.7841 µg/mL +/- 49.8538 µg/mL +/- 59.7705 µg/mL	Gravimetric Unstressed Stressed
5	2-Methylnaphthalene **CAS #** 91-57-6 (Lot STBK0259) **Purity** 96%	2,007.0 µg/mL	+/- 11.7784 µg/mL +/- 49.8299 µg/mL +/- 59.7419 µg/mL	Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) **CAS #** 629-59-4 (Lot STBK2282) **Purity** 99%	2,016.7 µg/mL	+/- 11.8349 µg/mL +/- 50.0689 µg/mL +/- 60.0284 µg/mL	Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) **CAS #** 544-76-3 (Lot SHBM4146) **Purity** 98%	2,014.9 µg/mL	+/- 11.8244 µg/mL +/- 50.0246 µg/mL +/- 59.9753 µg/mL	Gravimetric Unstressed Stressed

8	n-Octadecane (C18) **CAS #** 593-45-3 **Purity** 97%	(Lot VZKOJ)	2,004.7	µg/mL	+/- 11.7645 +/- 49.7710 +/- 59.6712	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	n-Eicosane (C20) **CAS #** 112-95-8 **Purity** 99%	(Lot MKCF7888)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	n-Heneicosane (C21) **CAS #** 629-94-7 **Purity** 99%	(Lot MKCL3226)	2,000.7	µg/mL	+/- 11.7410 +/- 49.6717 +/- 59.5522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	n-Docosane (C22) **CAS #** 629-97-0 **Purity** 99%	(Lot MKCL8918)	2,005.3	µg/mL	+/- 11.7684 +/- 49.7876 +/- 59.6911	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	n-Tetracosane (C24) **CAS #** 646-31-1 **Purity** 99%	(Lot MKCN2863)	2,018.0	µg/mL	+/- 11.8428 +/- 50.1020 +/- 60.0681	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	n-Hexacosane (C26) **CAS #** 630-01-3 **Purity** 99%	(Lot MKCD4540)	2,014.0	µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	n-Octacosane (C28) **CAS #** 630-02-4 **Purity** 99%	(Lot BCCG0084)	2,002.0	µg/mL	+/- 11.7489 +/- 49.7048 +/- 59.5919	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	n-Triacontane (C30) **CAS #** 638-68-6 **Purity** 97%	(Lot MKCQ9436)	2,011.1	µg/mL	+/- 11.8025 +/- 49.9316 +/- 59.8637	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	n-Dotriacontane (C32) **CAS #** 544-85-4 **Purity** 99%	(Lot BCBW0661)	2,012.0	µg/mL	+/- 11.8075 +/- 49.9531 +/- 59.8895	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	n-Tetratriacontane (C34) **CAS #** 14167-59-0 **Purity** 99%	(Lot OML4N)	2,006.7	µg/mL	+/- 11.7762 +/- 49.8207 +/- 59.7308	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	n-Hexatriacontane (C36) **CAS #** 630-06-8 **Purity** 99%	(Lot Z27H018)	2,017.3	µg/mL	+/- 11.8388 +/- 50.0855 +/- 60.0483	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	n-Octatriacontane (C38) **CAS #** 7194-85-6 **Purity** 96%	(Lot 0000145137)	2,017.3	µg/mL	+/- 11.8385 +/- 50.0842 +/- 60.0467	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	n-Tetracontane (C40) **CAS #** 4181-95-7 **Purity** 99%	(Lot BSBME)	2,008.7	µg/mL	+/- 11.7880 +/- 49.8703 +/- 59.7903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Hexane/Carbon disulfide (80:20)
CAS # 110-54-3/75-15-0
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

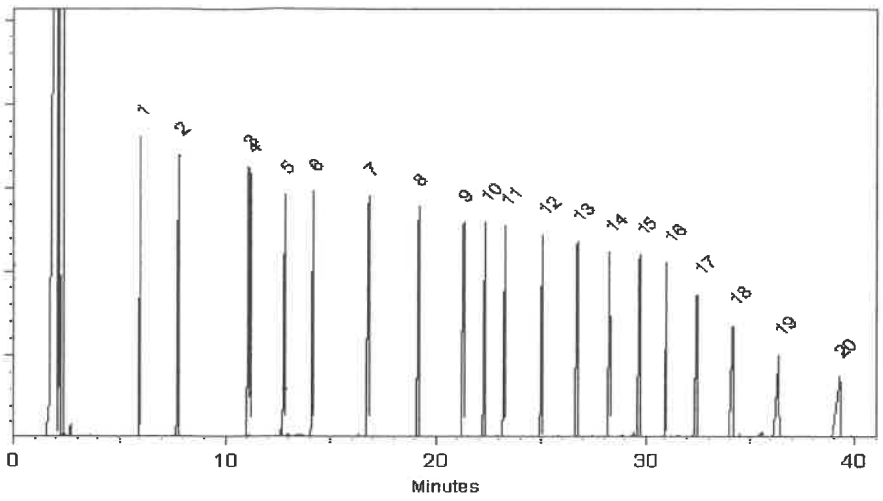
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 **Balance:** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P12960 & P12991 Y.P. 12/21/2023

Catalog No. : 31098 **Lot No.:** A0204989

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

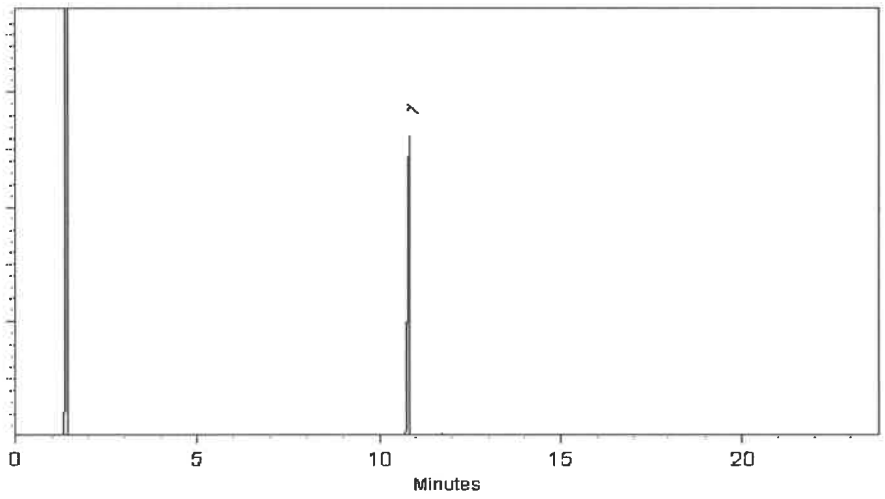
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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P12960 & P12991 Y.P. 12/21/2023

Catalog No. : 31098 **Lot No.:** A0204989

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

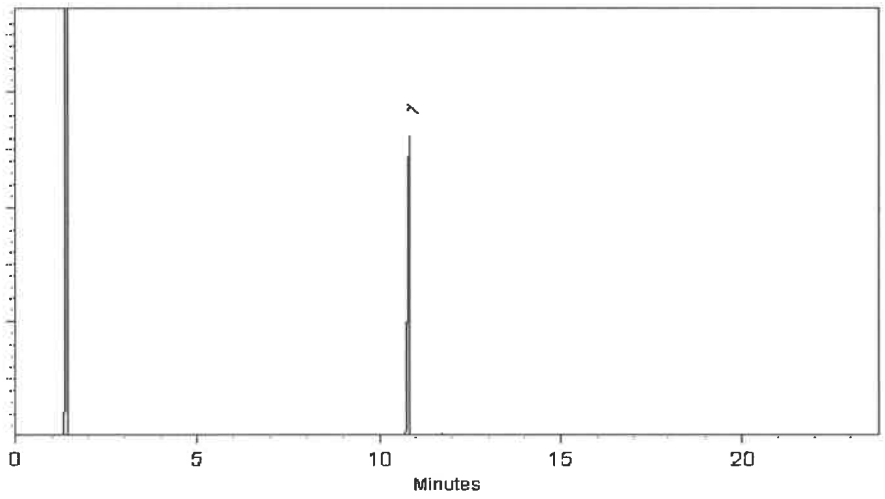
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023 **Balance Serial #** B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.)

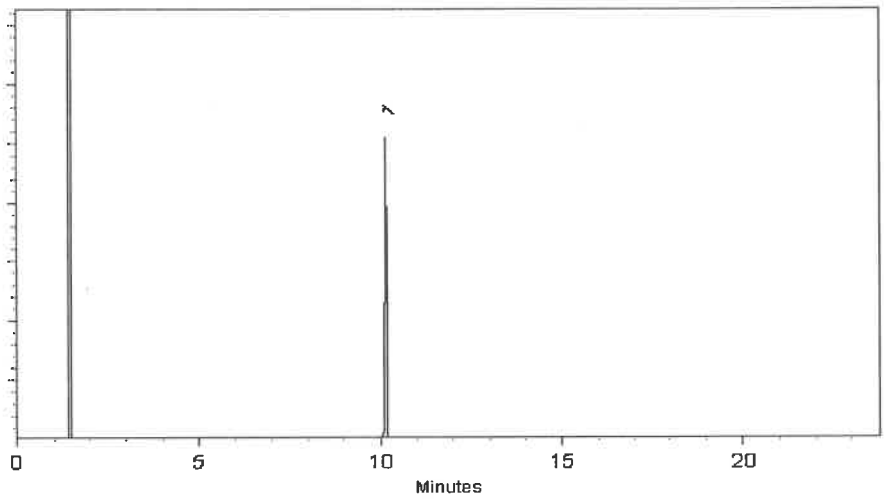
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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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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.)

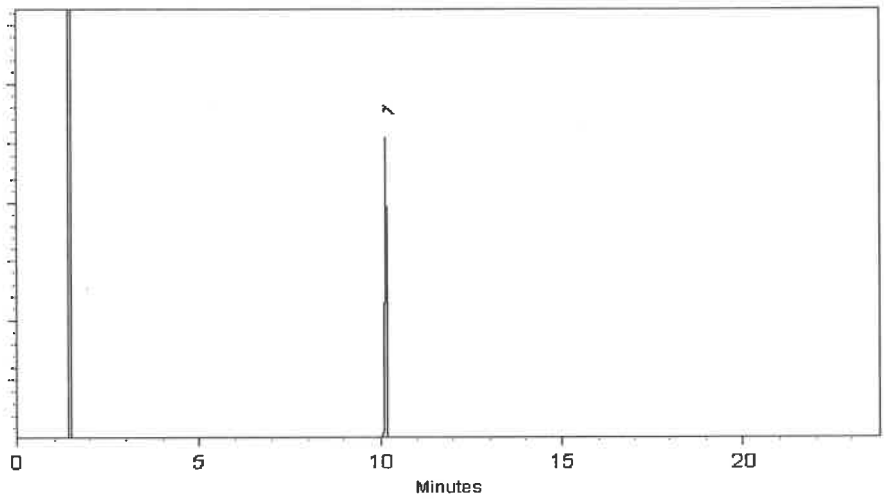
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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P12992 ↓ P13031 } Y.P. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

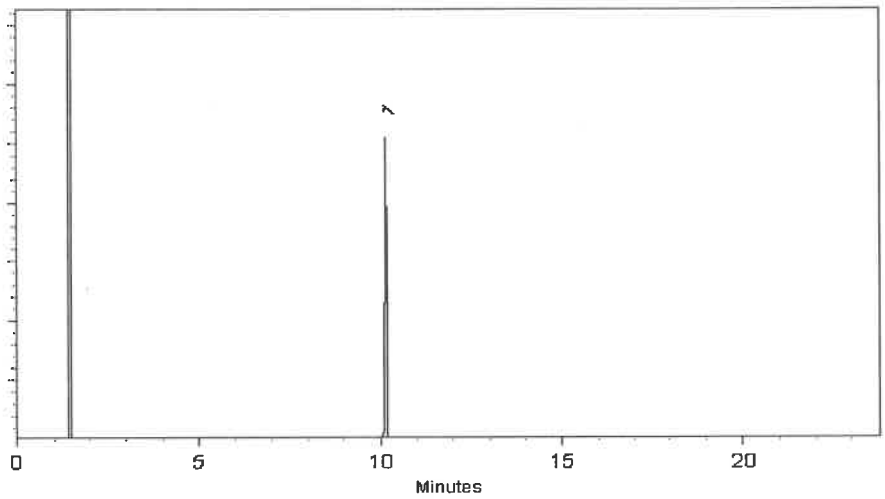
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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P12992 ↓ P13031 } Y.P. 12/21/2023

Catalog No. : 31097 **Lot No.:** A0204177

Description : o-Terphenyl Standard

o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

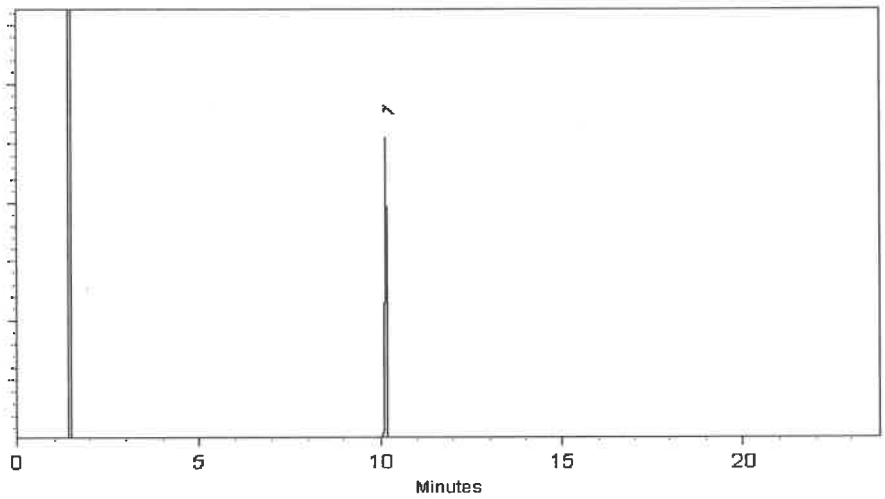
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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. : 31098 **Lot No.:** A0200707

P13044 & P13051 Y.P. 12/26/23

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

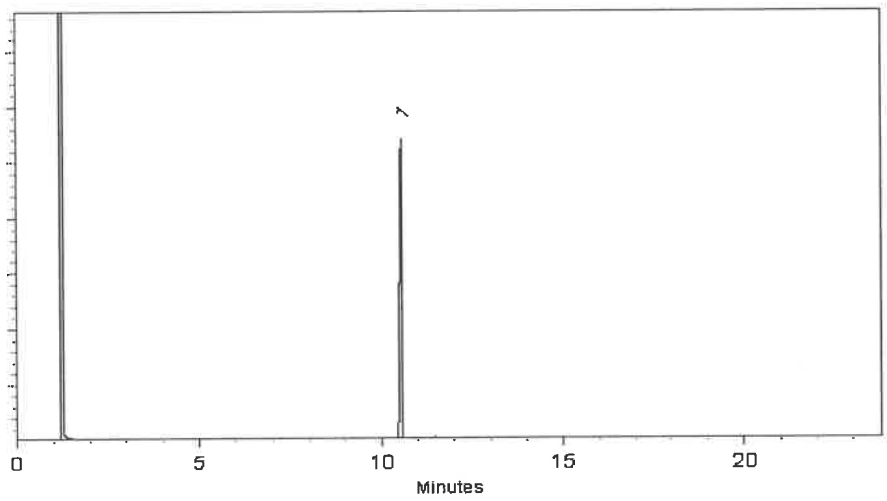
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Testing Laboratory
Certificate #3222.02

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Catalog No. : 31098 **Lot No.:** A0200707

P13044 & P13051 Y.P. 12/26/23

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

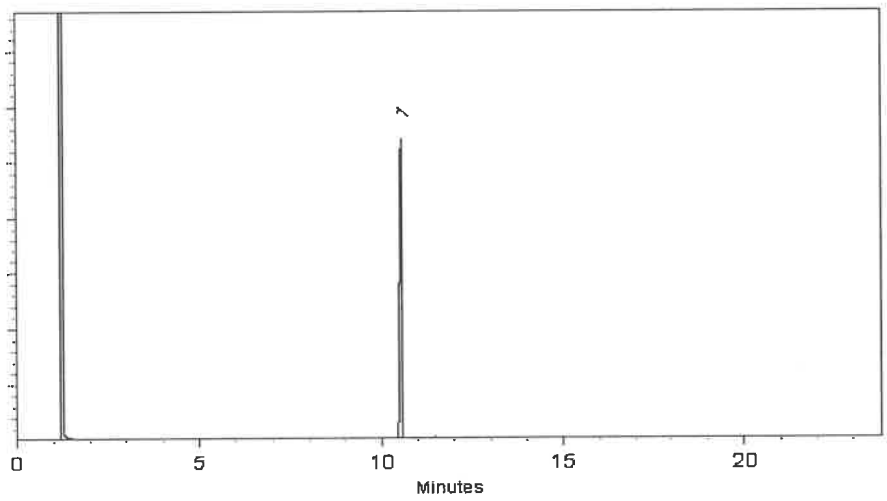
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31098 **Lot No.:** A0200707

P13044 & P13051 Y.P. 12/26/23

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	E230426RSRB	99%	10,018.0 µg/mL	+/- 562.8106

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

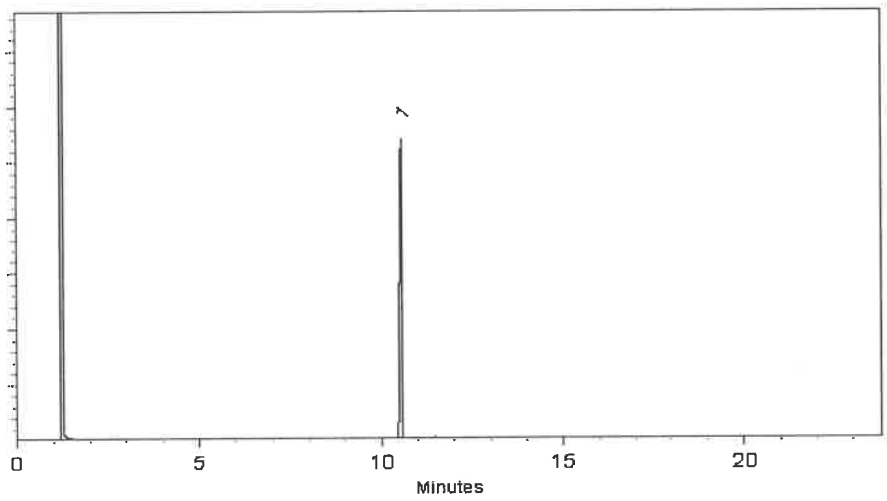
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

P13053 ↓ P13099 } Y.P. 01/12/24

Catalog No. : 30542 **Lot No.:** A0203911

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.0 µg/mL	+/- 5.1667
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.0 µg/mL	+/- 5.1667
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	200.3 µg/mL	+/- 5.1753
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.6 µg/mL	+/- 5.1815
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.1 µg/mL	+/- 5.1704
8	n-Henicosane (C21)	629-94-7	MKCL8682	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	200.3 µg/mL	+/- 5.1753
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.0 µg/mL	+/- 5.1667

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.0 µg/mL	+/-	5.1667

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

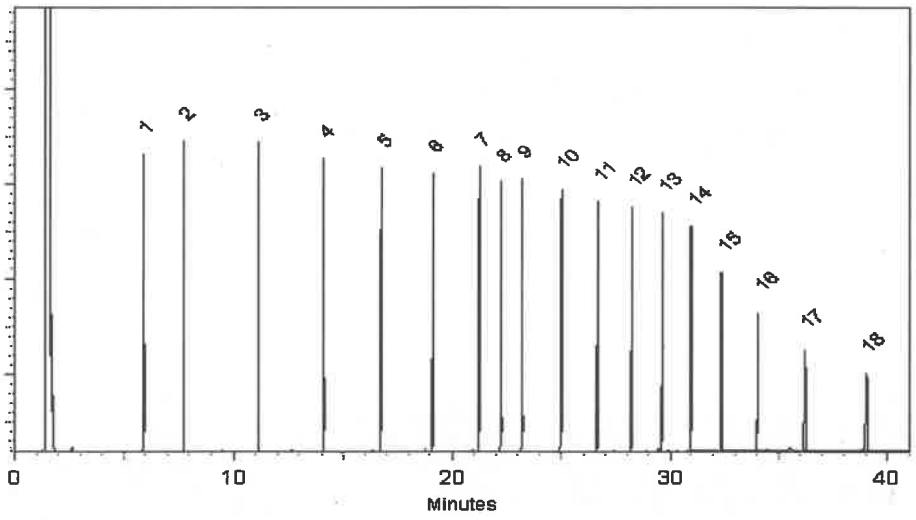
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 31-Oct-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Nov-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0200008

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13100 & P13102 Y.P. 01/02/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

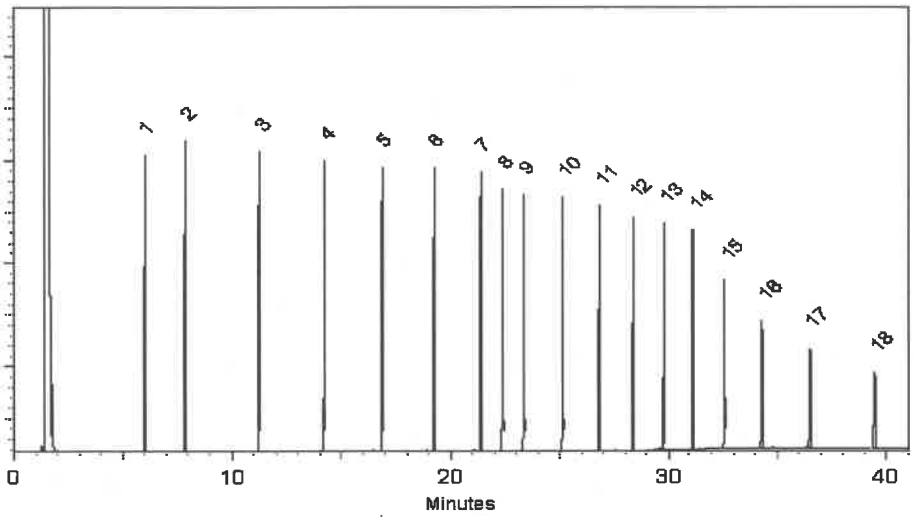
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Jul-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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.:** A0200008

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13100 & P13102 Y.P. 01/02/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

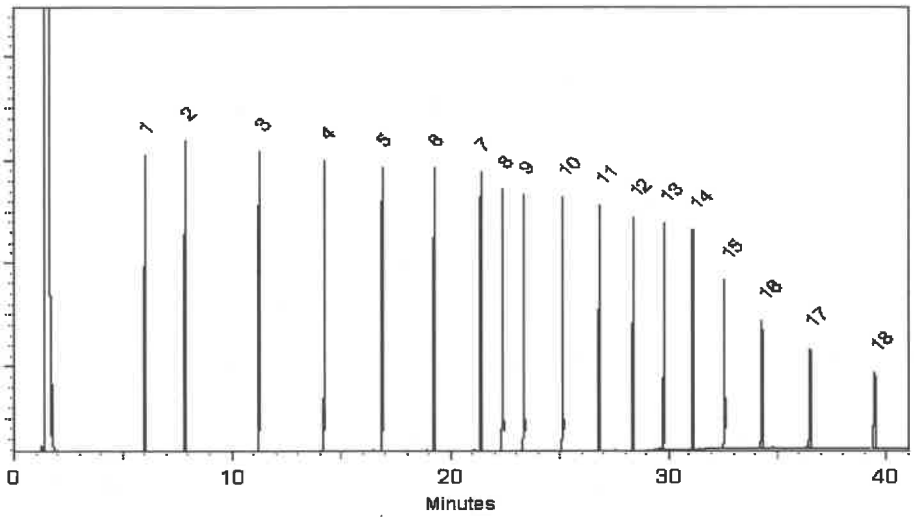
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Jul-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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. : 30542 **Lot No.:** A0200008

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13100 & P13102 Y.P. 01/02/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.7 µg/mL	+/- 5.2098
2	n-Decane (C10)	124-18-5	SHBP4427	99%	201.3 µg/mL	+/- 5.2012
3	n-Dodecane (C12)	112-40-3	SHBN7174	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	201.0 µg/mL	+/- 5.1926
5	n-Hexadecane (C16)	544-76-3	SHBP8192	99%	201.7 µg/mL	+/- 5.2098
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	201.2 µg/mL	+/- 5.1984
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	201.4 µg/mL	+/- 5.2038
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	201.3 µg/mL	+/- 5.2012
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	201.3 µg/mL	+/- 5.2012
10	n-Tetracosane (C24)	646-31-1	MKCQ8345	99%	201.3 µg/mL	+/- 5.2012
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	201.7 µg/mL	+/- 5.2098
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	201.0 µg/mL	+/- 5.1926
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.5 µg/mL	+/- 5.1788
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.3 µg/mL	+/- 5.2012
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	201.0 µg/mL	+/- 5.1926
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.3 µg/mL	+/- 5.1998

18	n-Tetracontane (C40)	4181-95-7	4LJYN	98%	200.6 µg/mL	+/-	5.1815

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

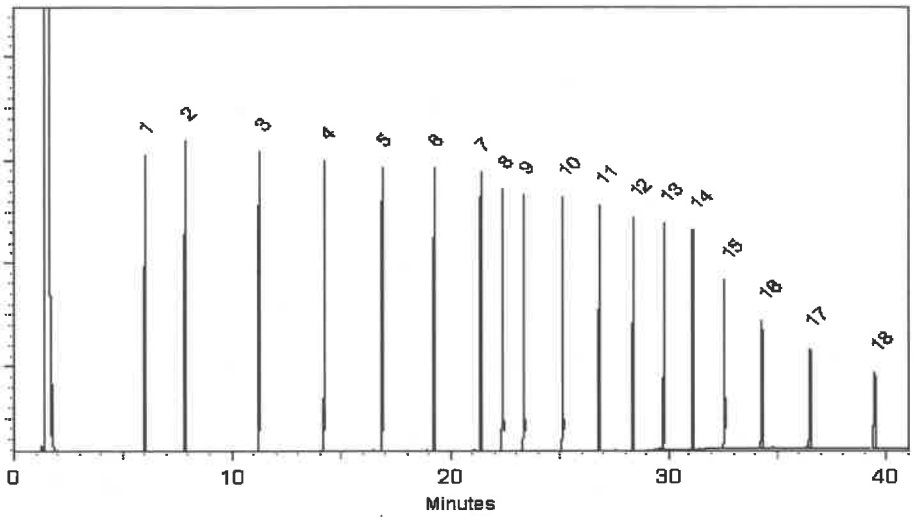
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 18-Jul-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Jul-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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.:** A0207239

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13288 → P13317 Y.P. 04/23/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/- 5.1753

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

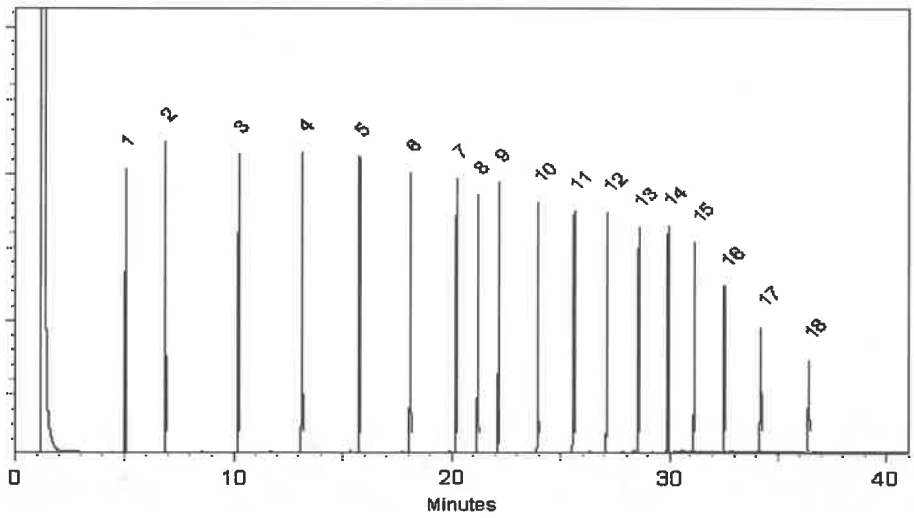
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 02-Feb-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0207239

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13h17 & P13h29 } Y.P. 07116124.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/-	5.1753

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

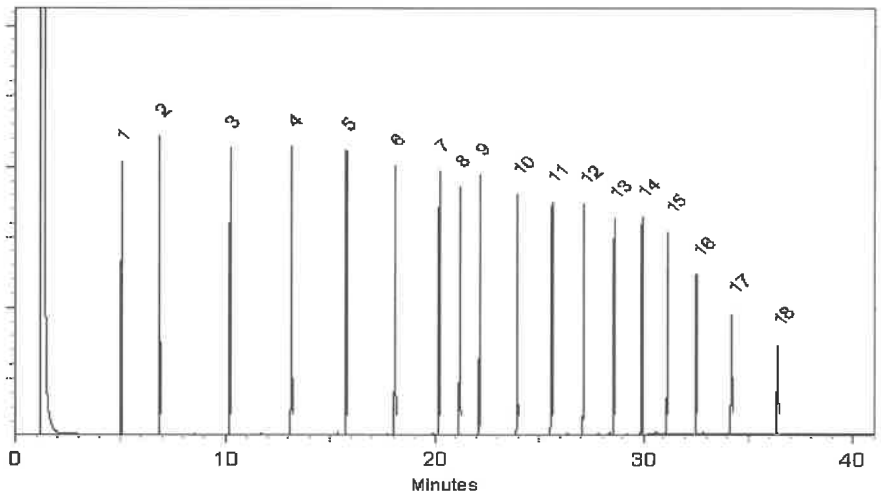
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 02-Feb-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0207239

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13h17 & P13h29 } Y.P. 07116124.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	201.0 µg/mL	+/- 5.1926
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1839
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.7 µg/mL	+/- 5.1839
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBM4146	98%	200.6 µg/mL	+/- 5.1815
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	199.9 µg/mL	+/- 5.1647
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	199.8 µg/mL	+/- 5.1621
8	n-Heneicosane (C21)	629-94-7	MKCL8682	99%	200.7 µg/mL	+/- 5.1839
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.7 µg/mL	+/- 5.1839
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.3 µg/mL	+/- 5.1753
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.3 µg/mL	+/- 5.1753
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	199.8 µg/mL	+/- 5.1621
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	201.0 µg/mL	+/- 5.1926
15	n-Tetratriacontane (C34)	14167-59-0	OML4N	99%	200.7 µg/mL	+/- 5.1839
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	201.0 µg/mL	+/- 5.1915

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.3 µg/mL	+/-	5.1753

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

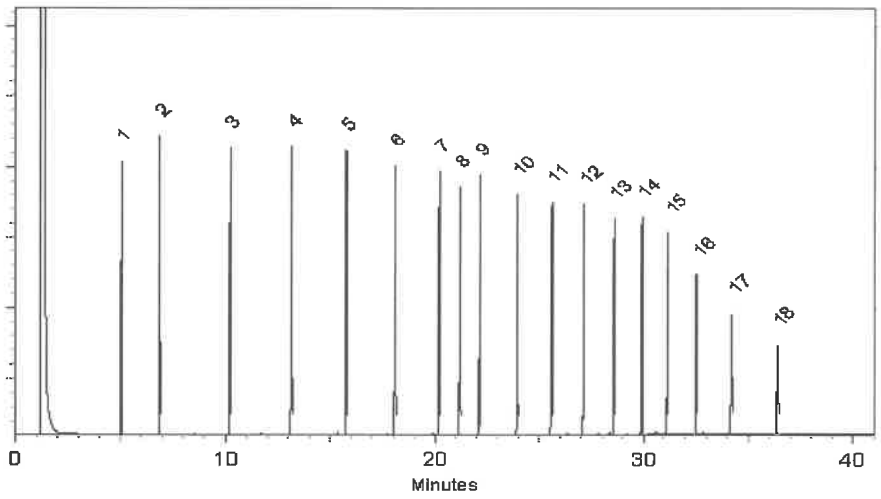
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 02-Feb-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0210831

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13457 ↓ P13476 Y.P. 07/23/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,031.0 µg/mL	+/- 181.5871
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,037.5 µg/mL	+/- 181.8799

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

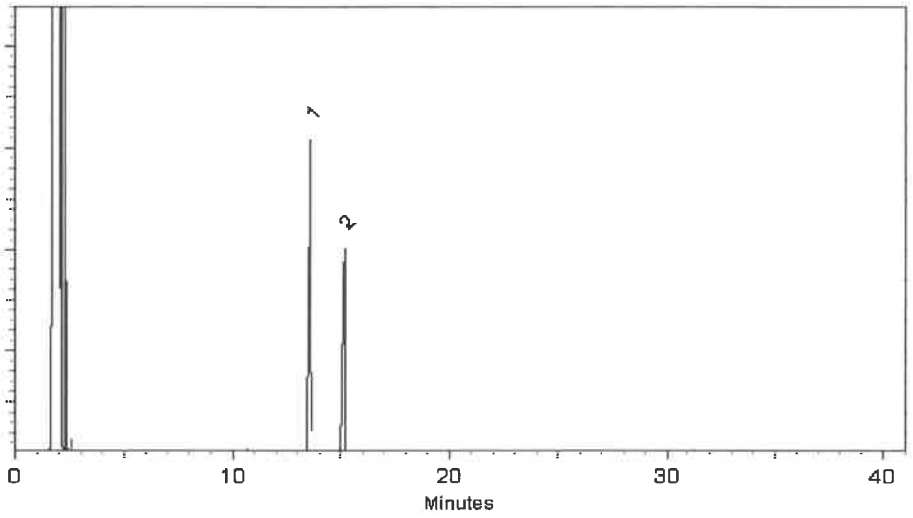
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 29-Apr-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 30-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

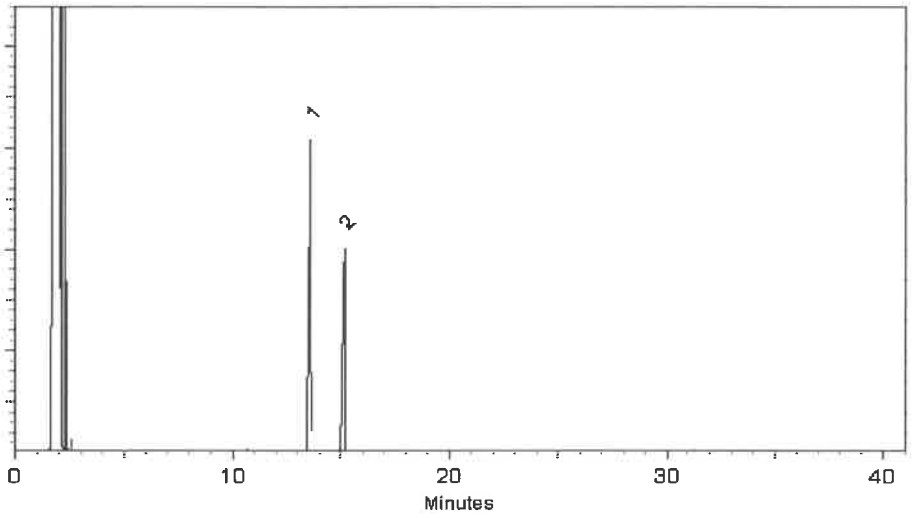
Inj. Temp:
250°C

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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Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
↓
P13644
} Y.P. 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

18	n-Tetracontane (C40)	4181-95-7	OKEGA	99%	200.5 µg/mL	+/- 5.1805

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

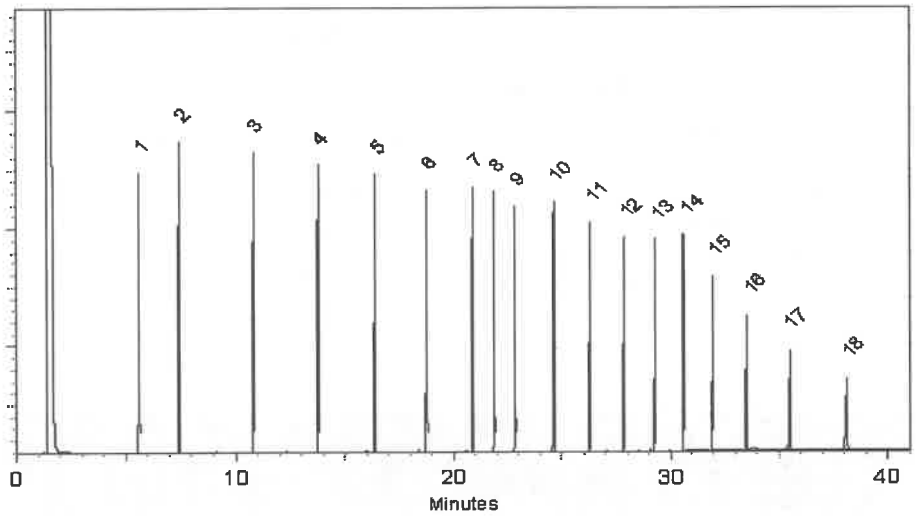
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

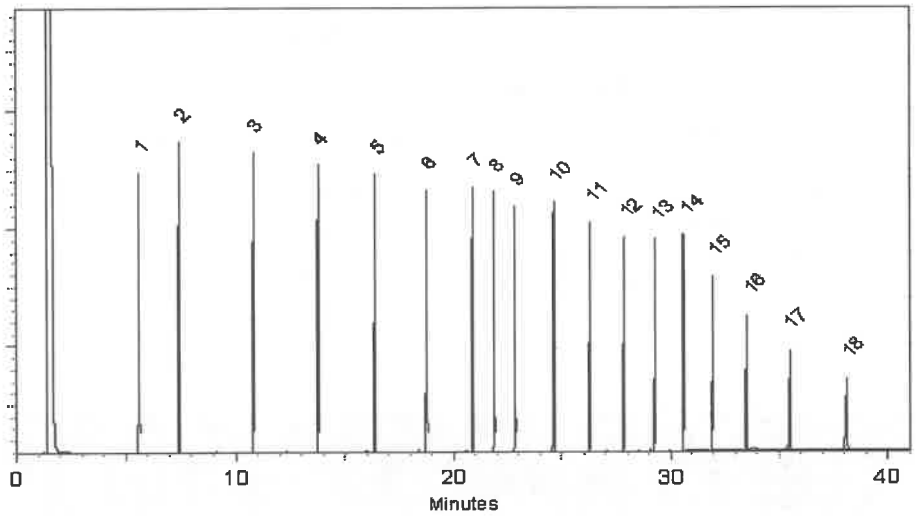
Inj. Temp:
250°C

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.
- 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. : 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.)

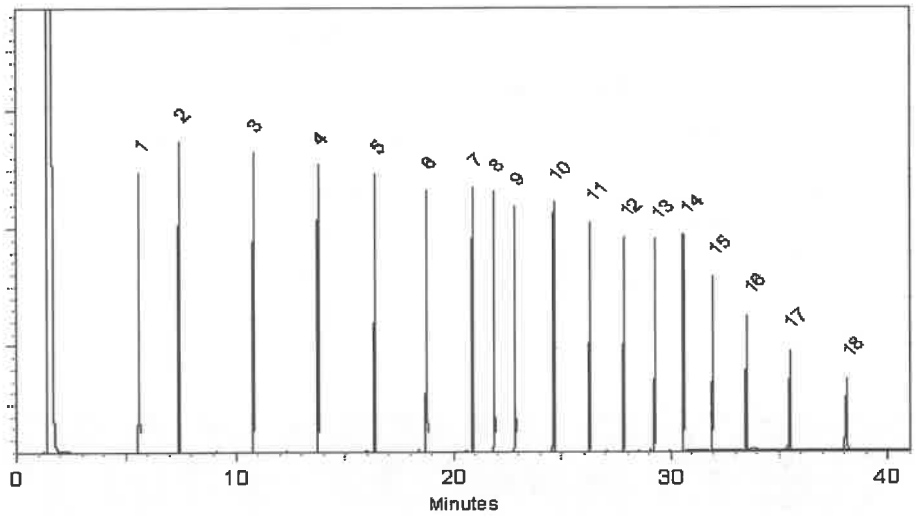
Inj. Temp:
250°C

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.)

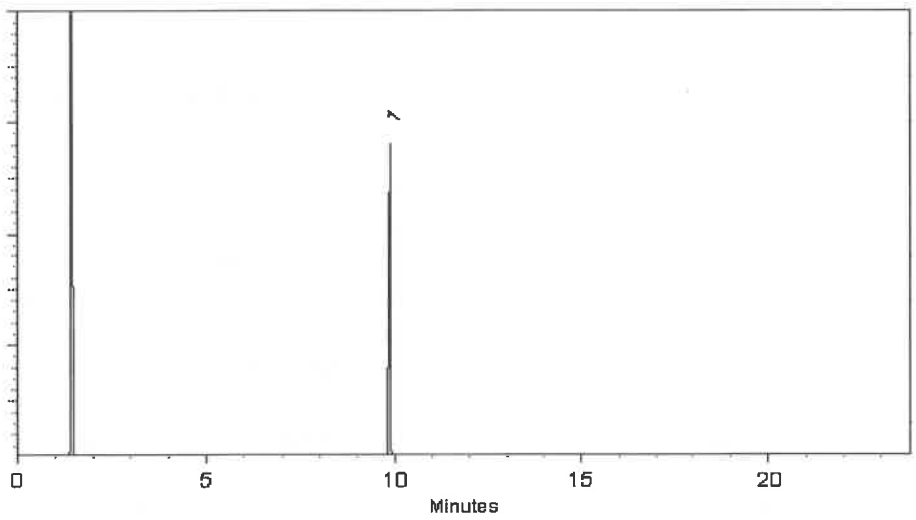
Inj. Temp:
250°C

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:

- 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.)

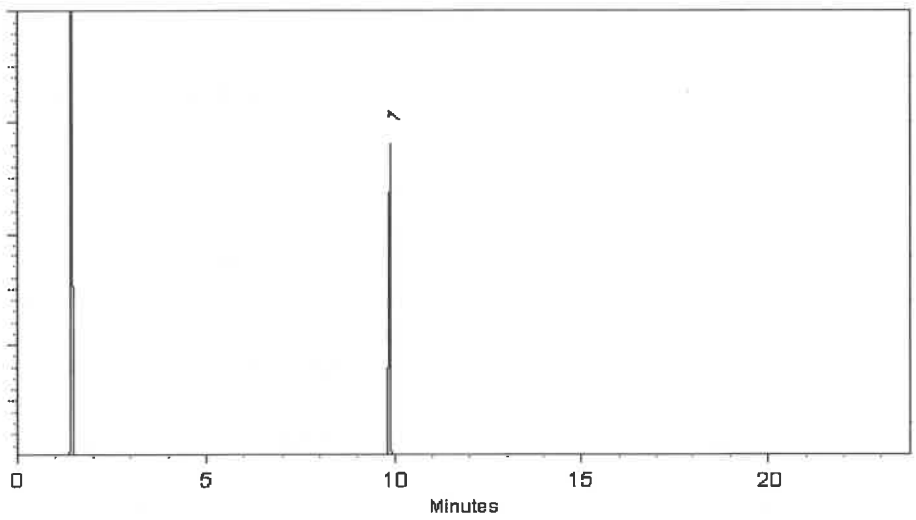
Inj. Temp:
250°C

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.)

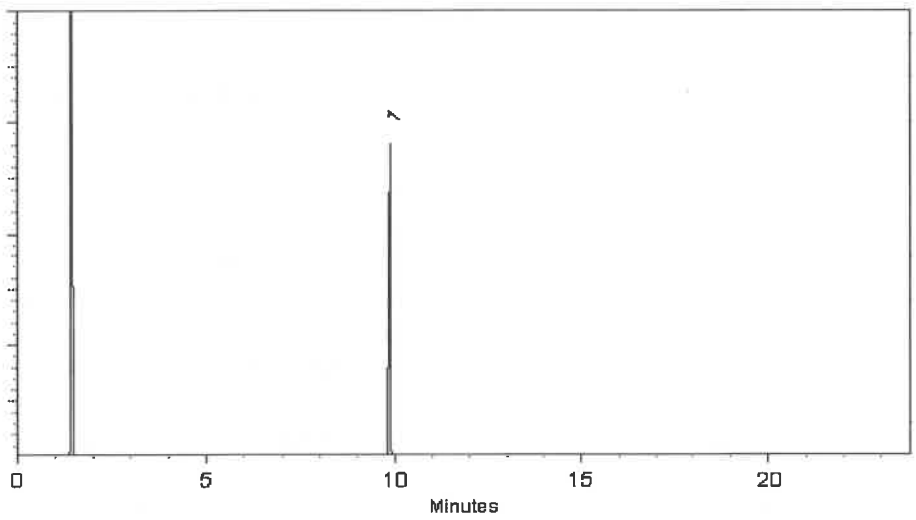
Inj. Temp:
250°C

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:

- 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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RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

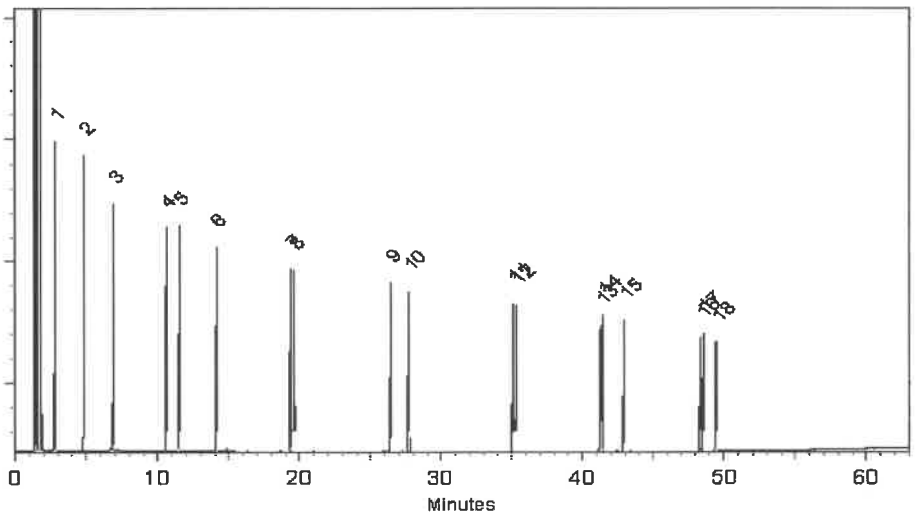
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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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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Manufacturing Notes:

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Handling Notes:

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
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13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
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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.)

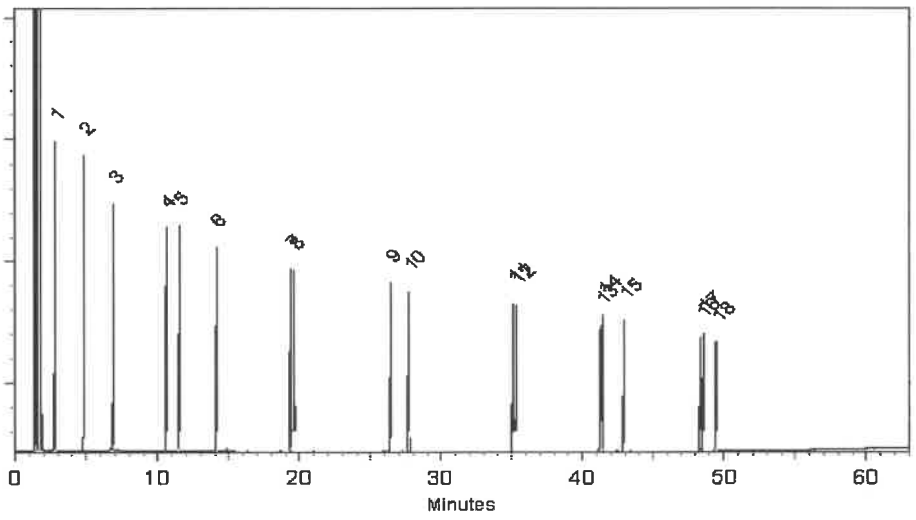
Inj. Temp:
250°C

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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Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
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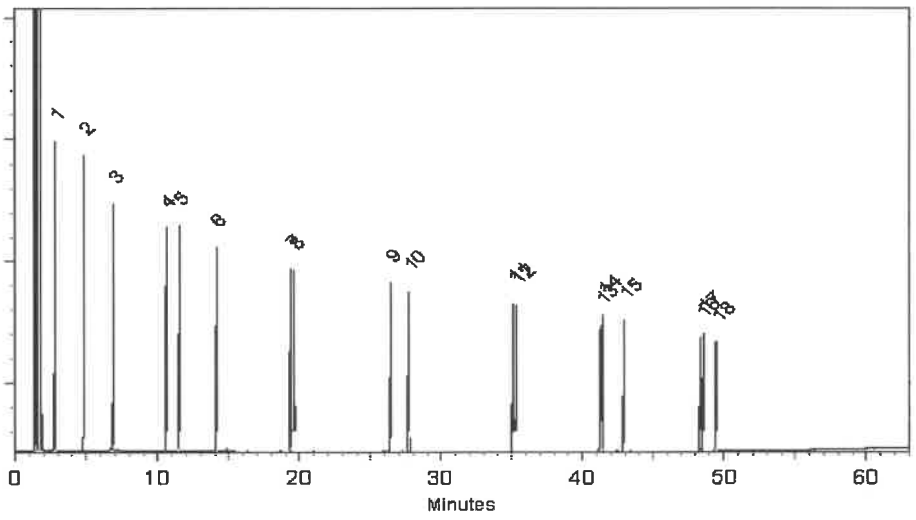
Inj. Temp:
250°C

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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P13717 ↓ P13727 Y.P 10/24/24

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Purity 99%

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Rtx-5 (cat.#10223)

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hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

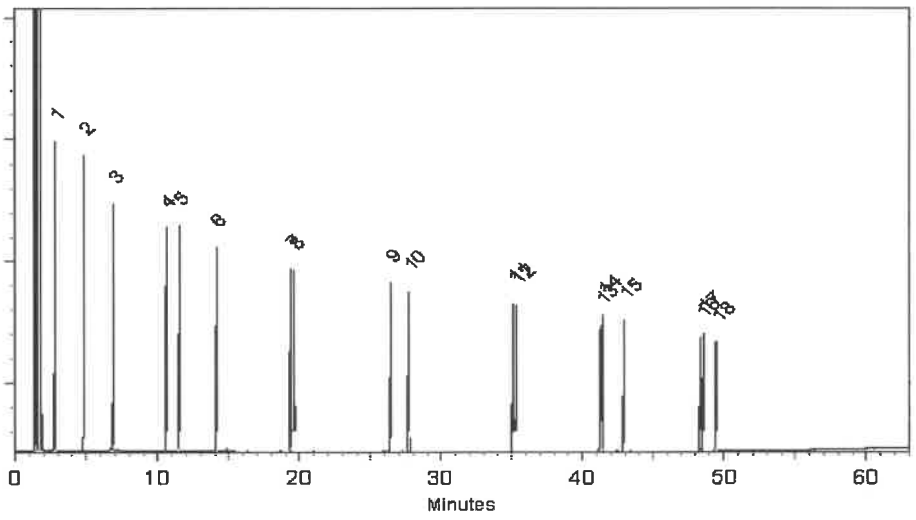
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

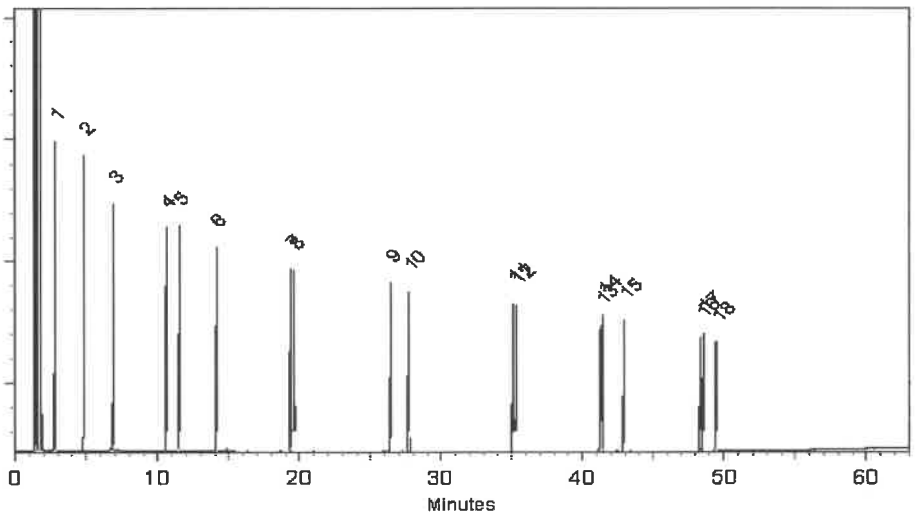
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

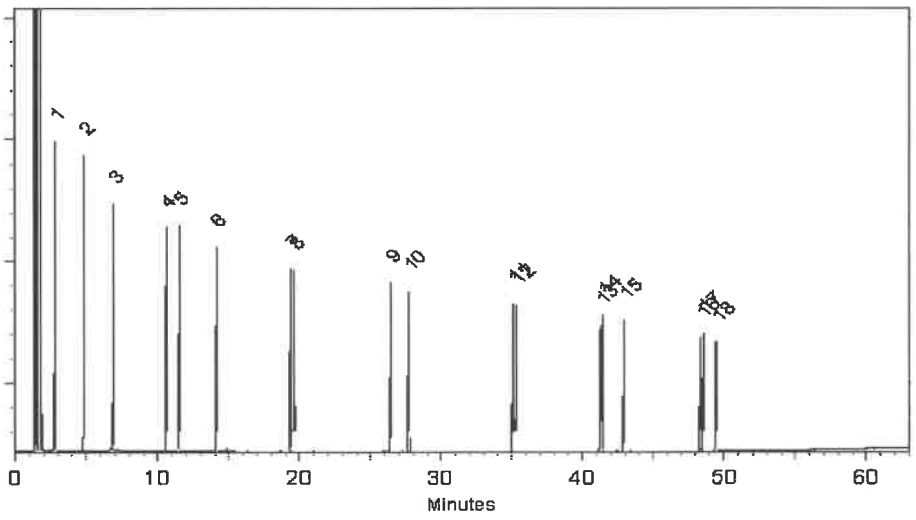
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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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

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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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
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

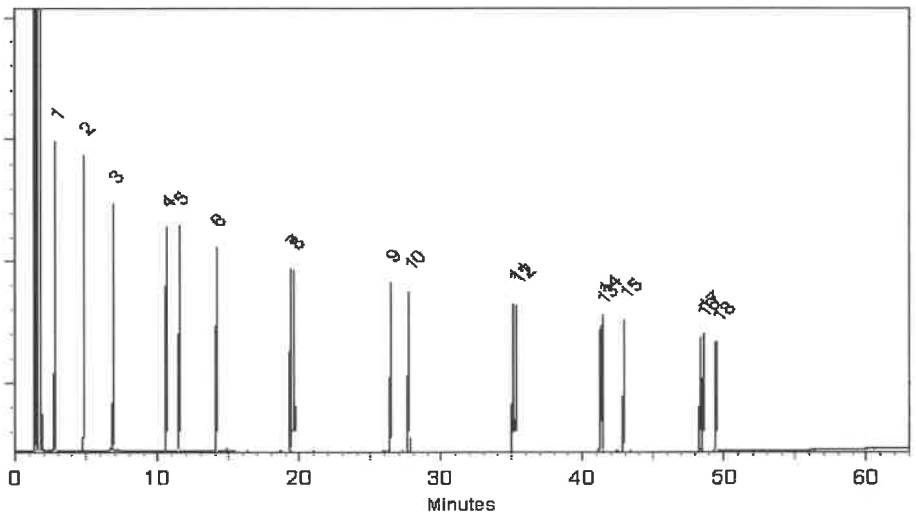
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
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.)

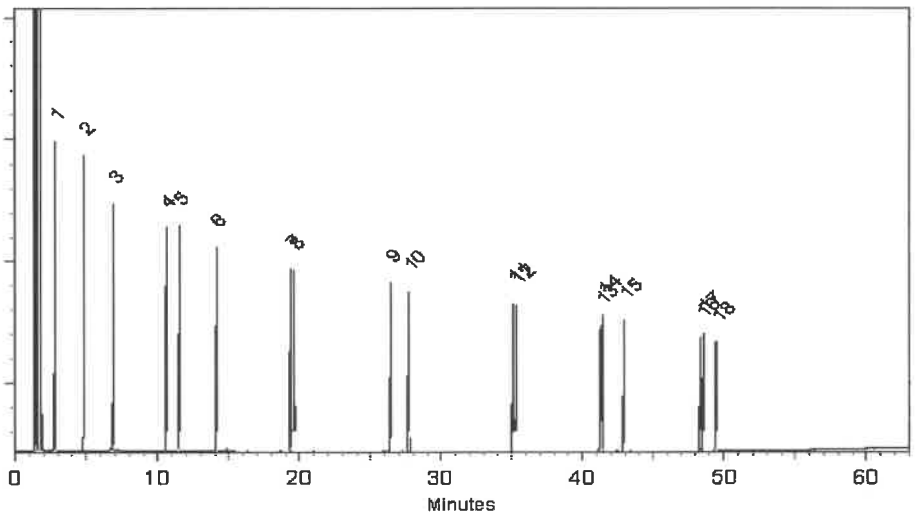
Inj. Temp:
250°C

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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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

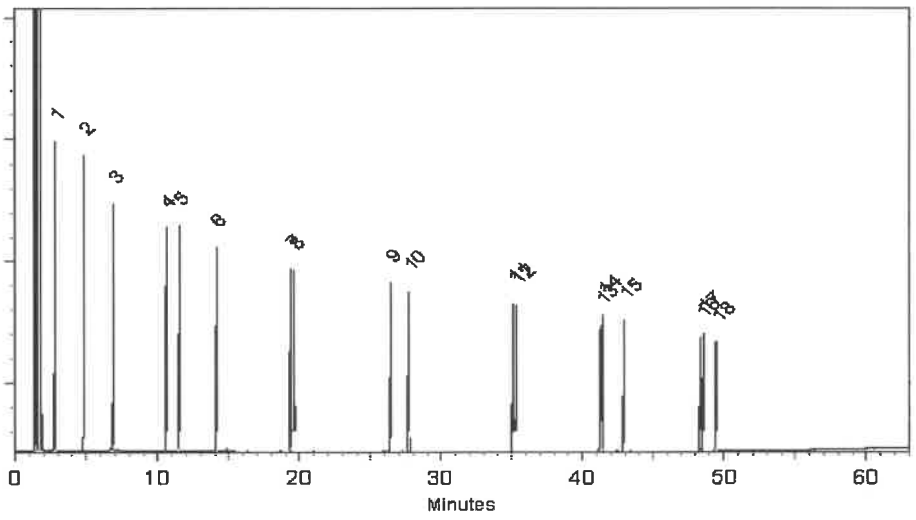
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13717 ↓ P13727 Y.P 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0	µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0	µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

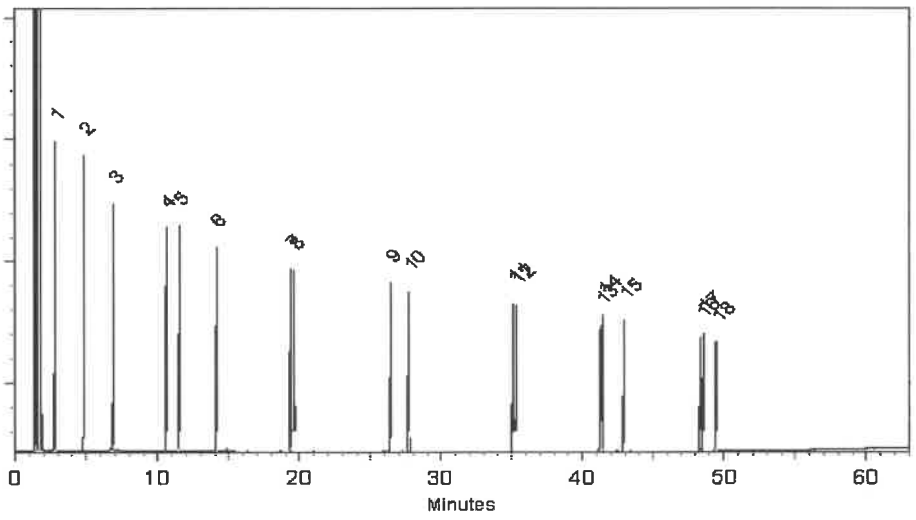
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

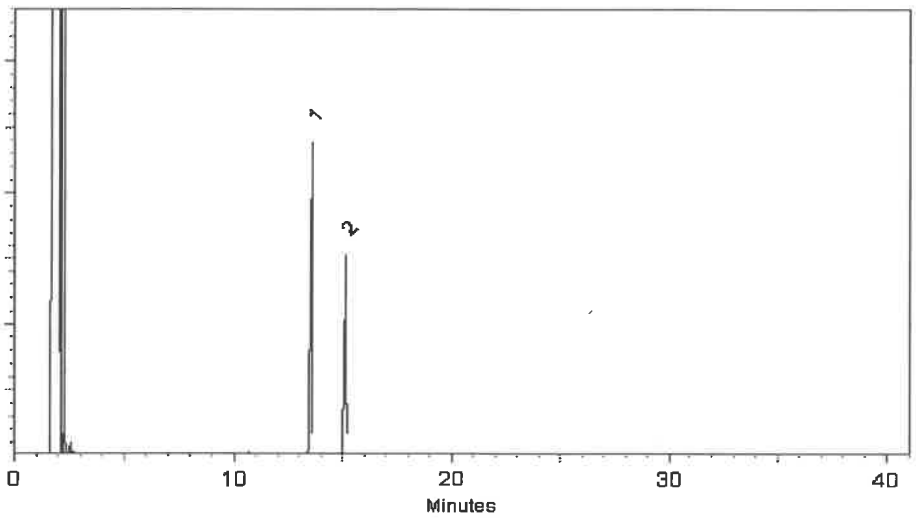
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

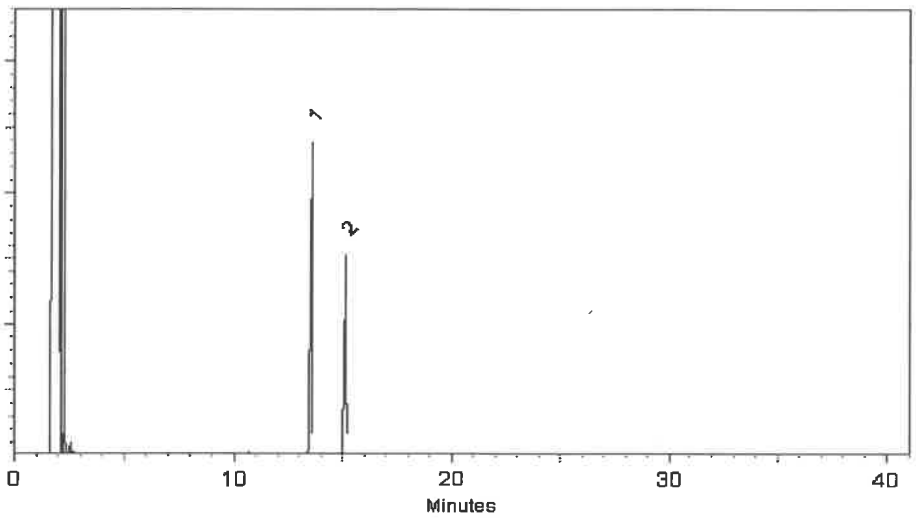
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

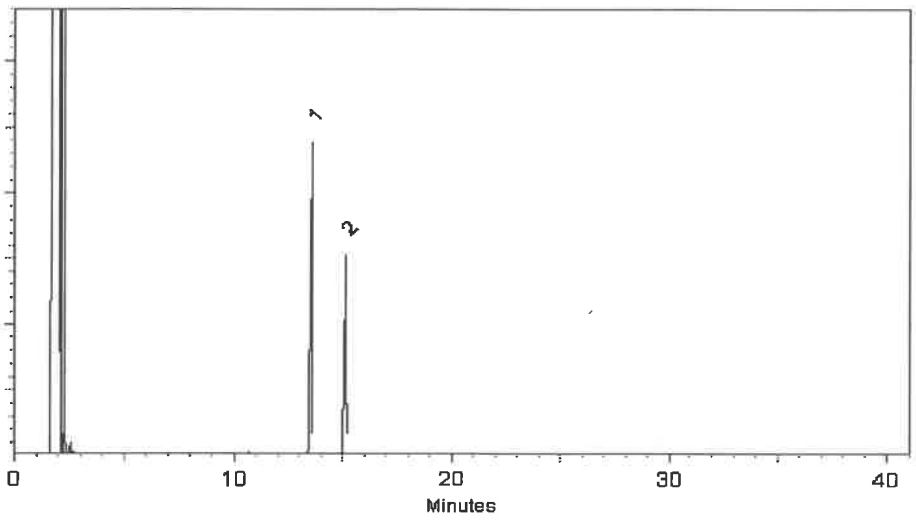
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
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Tel: 1-814-353-1300
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31480 **Lot No.:** A0214879

Description : MA Fractionation Surrogate Spike Mix

MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13743 ↓ P13772 } Y.P. 11/01/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,009.0 µg/mL	+/- 180.5961
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,008.5 µg/mL	+/- 180.5736

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

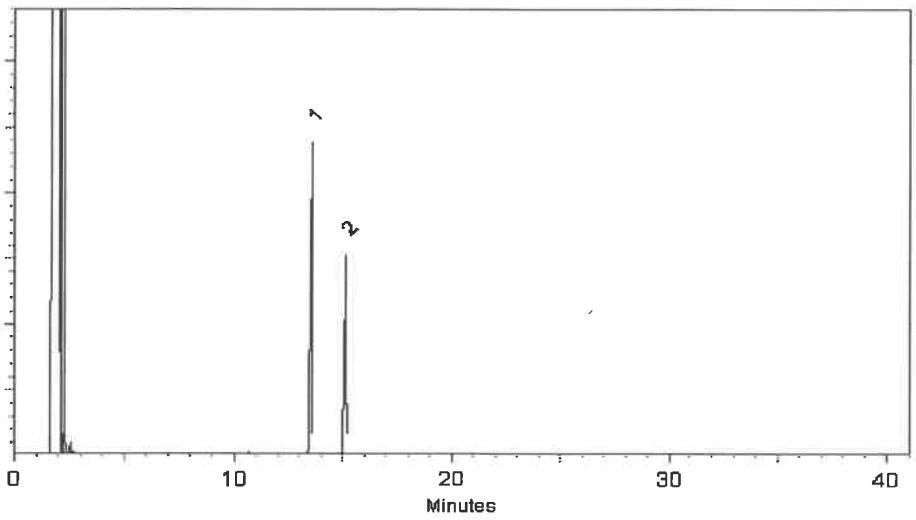
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Scott McNeil - Operations Tech I

Date Mixed: 06-Aug-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.



SHIPPING DOCUMENTS

P4842

p4839

ENTACT

CHAIN OF CUSTODY RECORD

COMPANY INFORMATION		PROJECT INFORMATION	
LOCATION	ENTACT LLC	PROJECT	North Point
ATTN	Wyatt Seel	BILLING INFORMATION	
ADDRESS	150 Bay Street, Suite 801	BILL TO	ENTACT LLC
	Jersey City, NJ	ADDRESS	999 Oakmont Plaza Drive Suite 300
			Westmont, IL 60559
PHONE	419-266-4671	PHONE	630-986-2900
FAX		FAX	PO# E9306

SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	TPH analysis(EPH Cat2, DRO & GRO) (8015)	COMMENTS
EX-9-TPH-9	TPH	11/13	11:00	Soil	G	Teracore / 8oz	2	X	
EX-9-TPH-10	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-11	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-12	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-13	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-14	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-15	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-16	TPH	11/13	11:00	Soil	G		2	X	
EX-9-TPH-17	TPH	11/13	11:00	Soil	G		2	X	

SAMPLER: A. Farmerie | SHIPMENT: courier Temp 3.6°C | AIRBILL:

REQUIRED TURNAROUND: ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER:

1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE
SIGNATURE:	11-13-24	SIGNATURE:		SIGNATURE:	11-13-24
PRINTED NAME/COMPANY: Austin Farmerie ENTACT		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY: Jahmir Davis/Alliance	1735
1. RECEIVED BY	**DATE**	**2. RECEIVED BY**	**DATE**	**3. RECEIVED BY**	**DATE**
SIGNATURE:	11-13-24	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Jahmir Davis/Alliance	1415	PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	

P4842

ENTACT

CHAIN OF CUSTODY RECORD

NO. 2 OF 3

COMPANY INFORMATION		PROJECT INFORMATION	
LOCATION	ENTACT LLC	PROJECT	North Point
ATTN	Wyatt Seel	BILLING INFORMATION	
ADDRESS	150 Bay Street, Suite 801	BILL TO	ENTACT LLC
	Jersey City, NJ	ADDRESS	999 Oakmont Plaza Drive Suite 300
			Westmont, IL 60559
PHONE	419-266-4671	PHONE	630-986-2900
FAX		FAX	PO# E9306

SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	REQUESTED ANALYSIS/METHOD: TPH analysis(EPH Cat2, DRO & GRO) (8015)									COMMENTS
EX-9-TPH-18	TPH	11/13	11:00	Soil	G	Teracore / 8oz	2	X									
EX-9-TPH-19	TPH	11/13	11:00	Soil	G		2	X									
EX-9-TPH-20	TPH	11/13	11:00	Soil	G		2	X									
EX-9-TPH-21	TPH	11/13	11:00	Soil	G		2	X									
EX-10-TPH-1	TPH	11/13	11:00	Soil	G		2	X									
EX-10-TPH-2	TPH	11/13	11:00	Soil	G		2	X									
EX-10-TPH-3	TPH	11/13	11:00	Soil	G		2	X									
EX-4-TPH-1	TPH	11/13	11:00	Soil	G		2	X	X								
EX-4-TPH-2	TPH	11/13	11:00	Soil	G		2	X									

SAMPLER	A. Farmerie	SHIPMENT	courier Temp 3.6C	AIRBILL	

REQUIRED TURNAROUND ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER: _____

1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE
SIGNATURE:	11-13-24	SIGNATURE:		SIGNATURE:	11-13-24
PRINTED NAME/COMPANY: Austin Farmerie ENTACT		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY: Jahmir Davis/Alliance	1735
1. RECEIVED BY	DATE	2. RECEIVED BY	DATE	3. RECEIVED BY	DATE
SIGNATURE:	11-13-24	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Jahmir Davis/Alliance	1415	PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	

p4842

ENTACT

CHAIN OF CUSTODY RECORD

NO. 3 OF 3

COMPANY INFORMATION		PROJECT INFORMATION	
LOCATION	ENTACT LLC	PROJECT	North Point
ATTN	Wyatt Seel	BILLING INFORMATION	
ADDRESS	150 Bay Street, Suite 801	BILL TO	ENTACT LLC
	Jersey City, NJ	ADDRESS	999 Oakmont Plaza Drive Suite 300
			Westmont, IL 60559
PHONE	419-266-4671	PHONE	630-986-2900
FAX		FAX	PO# E9306

SAMPLE ID	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE TYPE	CONTAINER TYPE	NUMBER OF CONTAINERS	REQUESTED ANALYSIS/METHOD: TPH analysis(EPH Cat2, DRO & GRO) (8015)	REQUESTED ANALYSIS/METHOD: PFOA / PFOS	COMMENTS
EX-4-TPH-3	TPH	11/13	11:00	Soil	G	Teracore / 8oz	2	X		
EX-4-TPH-4	TPH	11/13	11:00	Soil	G		2	X		
EX-4-TPH-5	TPH	11/13	11:00	Soil	G		2	X		
EX-4-TPH-6	TPH	11/13	11:00	Soil	G		2	X		
WC-22	PFOA / PFOS	11/13	11:00	Soil	G	8oz Jar			X	

SAMPLER	A. Farmerie	SHIPMENT	courier	Temp 3.6 C	AIRBILL

REQUIRED TURNAROUND: ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☒ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER: _____

1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE
SIGNATURE:	11-13-24	SIGNATURE:		SIGNATURE:	11-13-24
PRINTED NAME/COMPANY: Austin Farmerie ENTACT		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY: Jahmir Davis/Alliance	1735
1. RECEIVED BY	DATE	2. RECEIVED BY	DATE	3. RECEIVED BY	DATE
SIGNATURE:	11-13-24	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Jahmir Davis/Alliance	1415	PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	

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

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839 ENTA05
Client Name : ENTACT
Client Contact : Wyatt Seel
Invoice Name : ENTACT
Invoice Contact : Wyatt Seel

Order Date : 11/13/2024 2:21:00 PM
Project Name : North Point
Receive DateTime : 11/13/2024 ~~2:15:00~~ PM 18:35
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4839-01	EX-9-TPH-9	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-02	EX-9-TPH-10	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-03	EX-9-TPH-11	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-04	EX-9-TPH-12	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-05	EX-9-TPH-13	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-06	EX-9-TPH-14	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-07	EX-9-TPH-15	Solid	11/13/2024	11:00	Gasoline Range Organics		8015D		5 Bus. Days
P4839-08	EX-9-TPH-16	Solid	11/13/2024	11:00					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839 ENTA05
Client Name : ENTACT
Client Contact : Wyatt Seel
Invoice Name : ENTACT
Invoice Contact : Wyatt Seel

Order Date : 11/13/2024 2:21:00 PM
Project Name : North Point
Receive DateTime : 11/13/2024 ~~2:15:00~~ PM 18:35
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-09	EX-9-TPH-17	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-10	EX-9-TPH-18	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-11	EX-9-TPH-19	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-12	EX-9-TPH-20	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-13	EX-9-TPH-21	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-14	EX-10-TPH-1	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-15	EX-10-TPH-2	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839 ENTA05
Client Name : ENTACT
Client Contact : Wyatt Seel
Invoice Name : ENTACT
Invoice Contact : Wyatt Seel

Order Date : 11/13/2024 2:21:00 PM
Project Name : North Point
Receive DateTime : 11/13/2024 ~~2:15:00~~ 18:35 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4839-16	EX-10-TPH-3	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-17	EX-4-TPH-1	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-18	EX-4-TPH-2	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-19	EX-4-TPH-3	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-20	EX-4-TPH-4	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-21	EX-4-TPH-5	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days
P4839-22	EX-4-TPH-6	Solid	11/13/2024	11:00					
					Gasoline Range Organics		8015D		5 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4839 ENTA05
Client Name : ENTACT
Client Contact : Wyatt Seel
Invoice Name : ENTACT
Invoice Contact : Wyatt Seel

Order Date : 11/13/2024 2:21:00 PM
Project Name : North Point
Receive DateTime : 11/13/2024 ~~2:13:00~~ 18:35 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff : 11/14/2024 12:01:17 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 11/14/24 1220

Received By :
Date / Time : 11.14.24 12:20

Storage Area : VOA Refridgerator Room