

Cover Page

Order ID : P4385

Project ID : Robbinsville

Client : Scheideler Excavating Co. Inc.

Lab Sample Number

P4385-01
P4385-02
P4385-03
P4385-04
P4385-05
P4385-06
P4385-07
P4385-08
P4385-09
P4385-10
P4385-11
P4385-12
P4385-13
P4385-14
P4385-15
P4385-16
P4385-17
P4385-18
P4385-19
P4385-20

Client Sample Number

SP-1
SP-1
SP-2
SP-2
SP-3
SP-3
SP-4
SP-4
SP-5
SP-5
SP-6
SP-6
SP-7
SP-7
SP-8
SP-8
SP-9
SP-9
SP-10
SP-10

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

Signature : _____

Date: 10/18/2024

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4385

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRIYANKA DAVE

Date: 10/18/2024

LAB CHRONICLE

OrderID:	P4385	OrderDate:	10/10/2024 2:00:00 PM
Client:	Scheideler Excavating Co. Inc.	Project:	Robbinsville
Contact:	Jim Scheideler	Location:	K51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4385-02	SP-1	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-04	SP-2	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-06	SP-3	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-08	SP-4	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-10	SP-5	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-12	SP-6	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-14	SP-7	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-16	SP-8	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-18	SP-9	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24
P4385-20	SP-10	Solid	EPH_NF	NJEPH	10/10/24	10/11/24	10/11/24	10/10/24



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: SCHE03
Lab Code: CHEM CASE No.: P4385 SAS No.: P4385 SDG No.: P4385
Run Number: FC101124AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
OR-02-100924MS	79	73		0
OR-02-100924MSD	80	73		0
PB164070BL	69	66		0
PB164070BS	74	71		0
PB164070BSD	77	74		0

QC LIMITS

1-chlorooctadecane (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

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: SCHE03
Lab Code: CHEM CASE No.: P4385 SAS No.: P4385 SDG No.: P4385
Run Number: FE101224AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
SP-1	64	61		0
SP-2	62	58		0
SP-3	56	53		0
SP-4	68	65		0
SP-5	78	74		0
SP-6	65	62		0
SP-7	74	70		0
SP-8	72	68		0
SP-9	67	64		0
SP-10	67	64		0

QC LIMITS

1-chlorooctadecane (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

SOIL EPH SURROGATE RECOVERY

QC LIMITS

1-chlorooctadecane (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

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Scheideler Excavating Co. Inc.
Lab Code: CHEM **Cas No:** P4385 **SAS No :** P4385 **SDG No:** P4385
Sample No : P4376-01MS **Datafile:** FC067405.D
Client ID : OR-02-100924MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	31.6	35.4	73.1	119		(40-140)
Aliphatic C9-C28	105.4	12.4	72.8	57		(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Scheideler Excavating Co. Inc.
Lab Code: CHEM **Cas No:** P4385 **SAS No :** P4385 **SDG No:** P4385
Sample No : P4376-01MSD **Datafile:** FC067406.D
Client ID : OR-02-100924MSD

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS QC Limit Of RPD
Aliphatic C28-C40	31.6	35.4	74.2	122		2.49 (40-140) 25
Aliphatic C9-C28	105.3	12.4	70.7	55		3.7 (40-140) 25

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Scheideler Excavating Co. Inc.
Lab Code: CHEM **Cas No:** P4385 **SAS No :** P4385 **SDG No:** P4385
Sample No : PB164070BS **Datafile:** FC067401.D
Client ID : PB164070BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	27.2	91		(40-140)
Aliphatic C9-C28	100.1	70.8	71		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Scheideler Excavating Co. Inc.
Lab Code: CHEM **Cas No:** P4385 **SAS No :** P4385 **SDG No:** P4385
Sample No : PB164070BSD **Datafile:** FC067402.D
Client ID : PB164070BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	27.8	93		2.2 (40-140)	50
Aliphatic C9-C28	99.9	74.2	75		4.7 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164070BL

Lab Name: CHEMTECH

Contract: SCHE03

Lab Code: CHEM Case No.: P4385

SAS No.: P4385 SDG NO.: P4385

Instrument ID: FID_C

Lab Sample ID: PB164070BL

Matrix: (soil/water) Solid

Date Extracted: 10/11/2024 9:55:00

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB164070BS	PB164070BS
PB164070BSD	PB164070BSD
OR-02-100924MS	P4376-01MS
OR-02-100924MSD	P4376-01MSD
SP-1	P4385-02
SP-2	P4385-04
SP-3	P4385-06
SP-4	P4385-08
SP-5	P4385-10
SP-6	P4385-12
SP-7	P4385-14
SP-8	P4385-16
SP-9	P4385-18
SP-10	P4385-20

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-1	SDG No.:	P4385
Lab Sample ID:	P4385-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 15:32	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	17.0		1	1.92	2.14	mg/kg	FE050620.D
Aliphatic C9-C28	Aliphatic C9-C28	2.07	J	1	1.84	4.27	mg/kg	FE050620.D
Total AliphaticEPH	Total AliphaticEPH	19.1			3.76	6.41	mg/kg	
Total EPH	Total EPH	19.1			3.76	6.41	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-1	SDG No.:	P4385
Lab Sample ID:	P4385-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050620.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.07	J	1.84	4.27	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	17.0		1.92	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.8		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.6		40 - 140	61%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-02	Acq On:	11 Oct 2024 15:32
Client Sample ID:	SP-1	Operator:	YP\AJ
Data file:	FE050620.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	3.149	6.765	345167	2.415	300	ug/ml
Aliphatic C12-C16	6.766	10.197	591759	4.078	200	ug/ml
Aliphatic C16-C21	10.198	13.555	1496062	10.36	300	ug/ml
Aliphatic C21-C28	13.556	17.208	2081964	14.646	400	ug/ml
Aliphatic C28-C40	17.209	22.055	32993289	238.558	600	ug/ml
Aliphatic EPH	3.149	22.055	37508241	270.057		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	4821614	30.58		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	3766126	31.84		ug/ml
Aliphatic C9-C28	3.149	17.208	4514952	31.499	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050620.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 15:32
 Operator : YP\AJ
 Sample : P4385-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-1

Integration File: autoint1.e
 Quant Time: Oct 14 04:38:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.859	4821614	30.583 ug/ml
Spiked Amount 50.000		Recovery =	61.17%
12) S 1-chlorooctadecane (S...	13.292	3766126	31.837 ug/ml
Spiked Amount 50.000		Recovery =	63.67%

Target Compounds

(f)=RT Delta > 1/2 Window

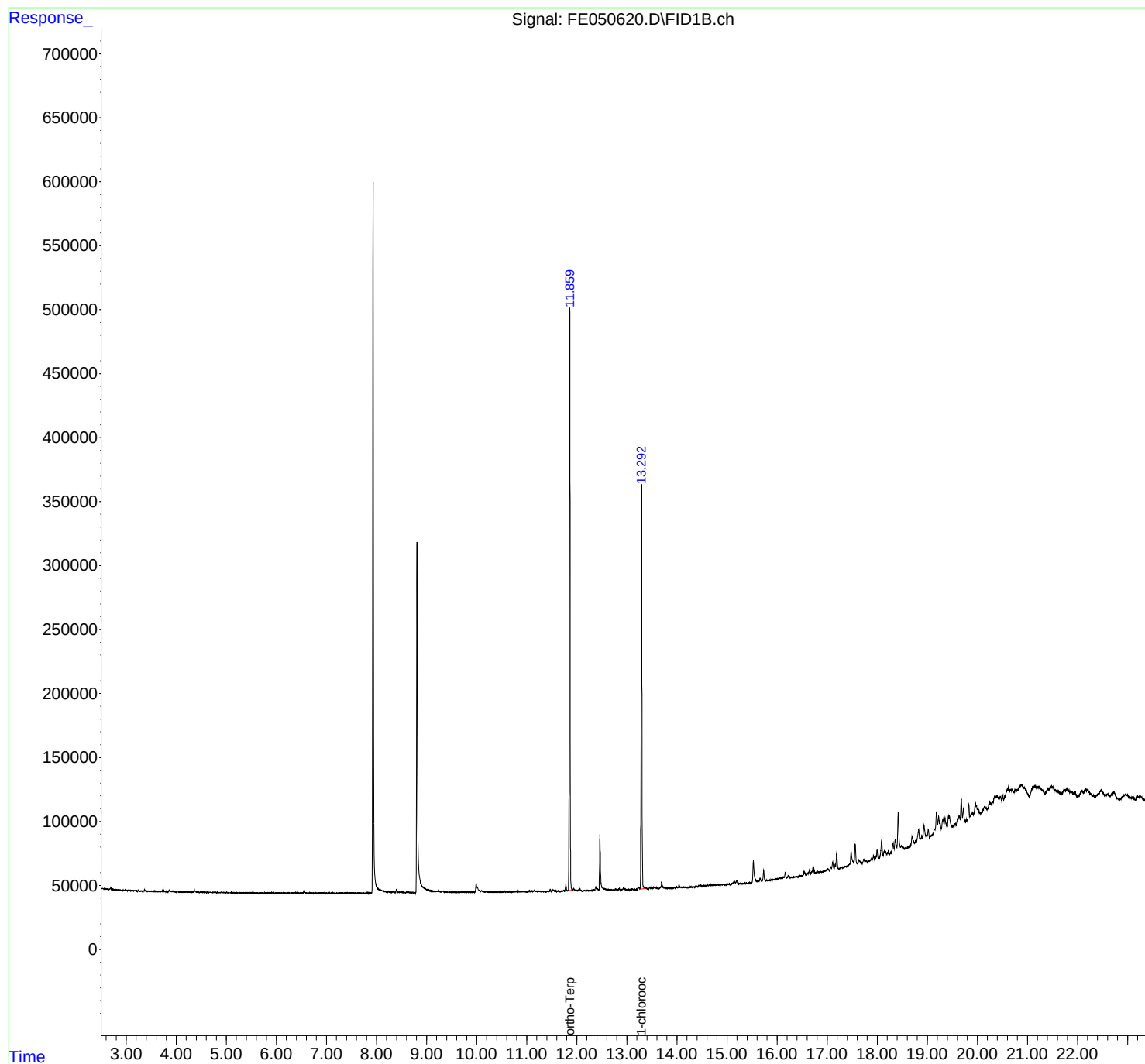
(m)=manual int.

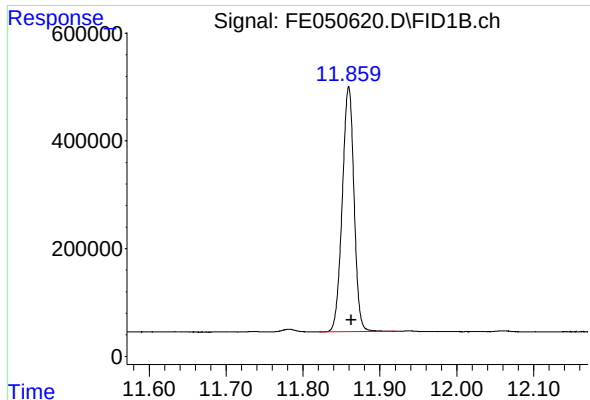
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050620.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 15:32
Operator : YP\AJ
Sample : P4385-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-1

Integration File: autoint1.e
Quant Time: Oct 14 04:38:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

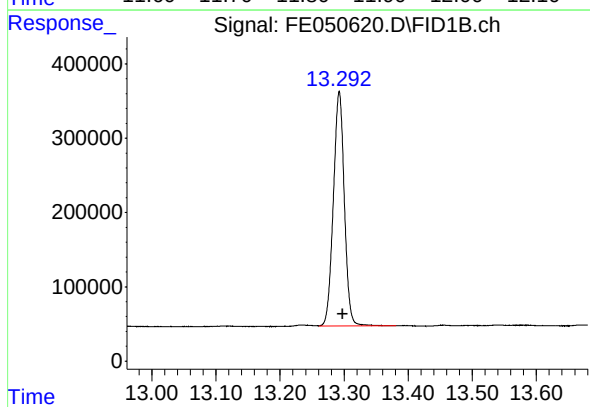




#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 4821614
Conc: 30.58 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-1



#12 1-chlorooctadecane (SURR)

R.T.: 13.292 min
Delta R.T.: -0.005 min
Response: 3766126
Conc: 31.84 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050620.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 15:32
Sample : P4385-02
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.164	3.121	3.231	BV	92	3560	0.07%	0.008%
2	3.242	3.231	3.337	VV	166	4674	0.10%	0.010%
3	3.370	3.337	3.425	PV	1000	15197	0.31%	0.032%
4	3.447	3.425	3.479	VV	266	4008	0.08%	0.008%
5	3.491	3.479	3.501	VV	93	977	0.02%	0.002%
6	3.511	3.501	3.546	VV	120	2107	0.04%	0.004%
7	3.557	3.546	3.578	VV	129	1373	0.03%	0.003%
8	3.600	3.578	3.619	VV	130	2172	0.04%	0.005%
9	3.638	3.619	3.671	VV	103	2085	0.04%	0.004%
10	3.689	3.671	3.718	PV	211	3646	0.07%	0.008%
11	3.735	3.718	3.798	VV	2208	33354	0.69%	0.071%
12	3.810	3.798	3.828	VV	189	2000	0.04%	0.004%
13	3.856	3.828	3.917	PV	1246	24084	0.49%	0.051%
14	3.934	3.917	4.061	VV	474	11198	0.23%	0.024%
15	4.067	4.061	4.119	VV	73	1558	0.03%	0.003%
16	4.136	4.119	4.215	VV	143	5333	0.11%	0.011%
17	4.227	4.215	4.253	VV	166	2715	0.06%	0.006%
18	4.264	4.253	4.273	VV	165	1375	0.03%	0.003%
19	4.297	4.273	4.337	VV	228	5844	0.12%	0.012%
20	4.362	4.337	4.478	VV	1702	27948	0.57%	0.059%
21	4.503	4.478	4.535	VV	180	3670	0.08%	0.008%
22	4.547	4.535	4.610	VV	134	3042	0.06%	0.006%
23	4.621	4.610	4.657	VV	121	1199	0.02%	0.003%
24	4.678	4.657	4.737	PV	288	6546	0.13%	0.014%
25	4.746	4.737	4.779	VV	127	2281	0.05%	0.005%
26	4.790	4.779	4.801	VV	115	922	0.02%	0.002%
27	4.808	4.801	4.821	VV	79	750	0.02%	0.002%
28	4.828	4.821	4.851	VV	95	1109	0.02%	0.002%
29	4.866	4.851	4.931	VV	136	4422	0.09%	0.009%
30	4.949	4.931	4.974	VV	152	2620	0.05%	0.006%
31	5.007	4.974	5.068	VV	132	5080	0.10%	0.011%
32	5.104	5.068	5.119	VV	131	2406	0.05%	0.005%
33	5.129	5.119	5.141	PV	51	515	0.01%	0.001%
34	5.164	5.141	5.182	VV	173	2770	0.06%	0.006%
35	5.192	5.182	5.216	VV	146	2017	0.04%	0.004%
36	5.233	5.216	5.273	VV	115	2707	0.06%	0.006%

					rt	er		
37	5.283	5.273	5.335	VV	75	1505	0.03%	0.003%
38	5.346	5.335	5.354	VV	65	504	0.01%	0.001%
39	5.359	5.354	5.367	VV	87	426	0.01%	0.001%
40	5.380	5.367	5.423	VV	121	2496	0.05%	0.005%
41	5.480	5.423	5.521	VV	277	6668	0.14%	0.014%
42	5.527	5.521	5.552	VV	133	1705	0.04%	0.004%
43	5.576	5.552	5.589	VV	132	1589	0.03%	0.003%
44	5.600	5.589	5.626	VV	95	919	0.02%	0.002%
45	5.655	5.626	5.665	VV	142	1732	0.04%	0.004%
46	5.676	5.665	5.707	VV	106	1241	0.03%	0.003%
47	5.755	5.707	5.790	PV	211	6623	0.14%	0.014%
48	5.804	5.790	5.815	VV	290	3170	0.07%	0.007%
49	5.833	5.815	5.873	VV	296	7245	0.15%	0.015%
50	5.898	5.873	5.961	VV	304	10093	0.21%	0.021%
51	5.968	5.961	6.009	VV	162	3994	0.08%	0.008%
52	6.019	6.009	6.072	VV	144	3619	0.07%	0.008%
53	6.108	6.072	6.152	VV	401	7102	0.15%	0.015%
54	6.162	6.152	6.186	VV	130	1236	0.03%	0.003%
55	6.236	6.186	6.281	PV	370	11638	0.24%	0.025%
56	6.290	6.281	6.304	VV	240	2353	0.05%	0.005%
57	6.314	6.304	6.340	VV	203	3199	0.07%	0.007%
58	6.380	6.340	6.413	VV	521	11126	0.23%	0.024%
59	6.436	6.413	6.515	VV	378	11401	0.23%	0.024%
60	6.556	6.515	6.654	VV	2693	41105	0.84%	0.087%
61	6.660	6.654	6.720	VV	159	3280	0.07%	0.007%
62	6.738	6.720	6.751	VV	69	720	0.01%	0.002%
63	6.758	6.751	6.812	VV	67	1214	0.02%	0.003%
64	6.845	6.812	6.878	VV	119	2512	0.05%	0.005%
65	6.916	6.878	6.935	VV	100	2495	0.05%	0.005%
66	6.960	6.935	7.109	VV	121	4850	0.10%	0.010%
67	7.253	7.109	7.328	PV	159	10611	0.22%	0.022%
68	7.383	7.328	7.481	VV	258	13987	0.29%	0.030%
69	7.563	7.481	7.598	VV	283	11100	0.23%	0.024%
70	7.614	7.598	7.721	VV	225	7761	0.16%	0.016%
71	7.735	7.721	7.786	VV	59	1564	0.03%	0.003%
72	7.811	7.786	7.831	PV	72	887	0.02%	0.002%
73	8.342	8.326	8.368	VV	677	15824	0.33%	0.034%
74	8.400	8.368	8.451	VV	2811	51658	1.06%	0.109%
75	8.494	8.451	8.564	VV	1133	36682	0.75%	0.078%
76	8.600	8.564	8.721	VV	567	31610	0.65%	0.067%
77	8.738	8.721	8.774	VV	228	5716	0.12%	0.012%
78	9.231	9.208	9.293	VV	1441	47489	0.98%	0.101%
79	9.320	9.293	9.389	VV	1219	38496	0.79%	0.082%
80	9.406	9.389	9.458	VV	518	15559	0.32%	0.033%
81	9.506	9.458	9.664	VV	380	31295	0.64%	0.066%
82	9.713	9.664	9.752	VV	471	17416	0.36%	0.037%
83	9.779	9.752	9.804	VV	314	9035	0.19%	0.019%
84	9.823	9.804	9.906	VV	593	15736	0.32%	0.033%
85	9.934	9.906	9.955	VV	418	6250	0.13%	0.013%
86	9.993	9.955	10.077	VV	6182	174518	3.59%	0.370%
87	10.097	10.077	10.182	VV	1097	38708	0.80%	0.082%
88	10.206	10.182	10.254	VV	378	11441	0.24%	0.024%
89	10.266	10.254	10.305	VV	262	6549	0.13%	0.014%

					rteres			
90	10.332	10.305	10.398	VV	169	7247	0.15%	0.015%
91	10.480	10.398	10.518	VV	399	17770	0.37%	0.038%
92	10.593	10.518	10.642	VV	290	14600	0.30%	0.031%
93	10.669	10.642	10.684	VV	123	2526	0.05%	0.005%
94	10.759	10.684	10.784	PV	400	10808	0.22%	0.023%
95	10.836	10.784	10.881	VV	860	23906	0.49%	0.051%
96	10.938	10.881	11.006	VV	434	18962	0.39%	0.040%
97	11.059	11.006	11.108	VV	729	21556	0.44%	0.046%
98	11.145	11.108	11.197	VV	842	29947	0.62%	0.063%
99	11.226	11.197	11.308	VV	501	23020	0.47%	0.049%
100	11.323	11.308	11.383	VV	292	7305	0.15%	0.015%
101	11.424	11.383	11.443	PV	323	5789	0.12%	0.012%
102	11.471	11.443	11.495	VV	1618	22915	0.47%	0.049%
103	11.536	11.495	11.566	VV	1226	31127	0.64%	0.066%
104	11.583	11.566	11.603	VV	411	6936	0.14%	0.015%
105	11.632	11.603	11.678	VV	607	12595	0.26%	0.027%
106	11.699	11.678	11.715	VV	416	6244	0.13%	0.013%
107	11.736	11.715	11.758	VV	842	10395	0.21%	0.022%
108	11.782	11.758	11.821	VV	5158	68128	1.40%	0.144%
109	11.859	11.821	11.918	VV	451884	4866032	100.00%	10.303%
110	11.937	11.918	11.964	VV	1905	35362	0.73%	0.075%
111	11.980	11.964	12.008	VV	797	19096	0.39%	0.040%
112	12.060	12.008	12.122	VV	1985	42342	0.87%	0.090%
113	12.164	12.122	12.188	PV	303	8134	0.17%	0.017%
114	12.207	12.188	12.228	VV	697	8917	0.18%	0.019%
115	12.249	12.228	12.284	VV	253	6326	0.13%	0.013%
116	12.330	12.284	12.358	VV	991	24083	0.49%	0.051%
117	12.379	12.358	12.433	VV	2997	72511	1.49%	0.154%
118	12.463	12.433	12.641	VV	43545	659174	13.55%	1.396%
119	12.660	12.641	12.718	VV	680	22147	0.46%	0.047%
120	12.781	12.718	12.820	VV	1067	30808	0.63%	0.065%
121	12.847	12.820	12.874	VV	1241	20787	0.43%	0.044%
122	12.936	12.874	13.070	VV	2025	59803	1.23%	0.127%
123	13.114	13.070	13.158	PV	670	18013	0.37%	0.038%
124	13.236	13.158	13.261	VV	1896	40838	0.84%	0.086%
125	13.292	13.261	13.424	VV	314065	3820875	78.52%	8.090%
126	13.456	13.424	13.474	VV	1321	21781	0.45%	0.046%
127	13.496	13.474	13.516	VV	974	19394	0.40%	0.041%
128	13.541	13.516	13.558	VV	1388	26780	0.55%	0.057%
129	13.580	13.558	13.641	VV	1100	34548	0.71%	0.073%
130	13.695	13.641	13.788	VV	5157	112698	2.32%	0.239%
131	13.833	13.788	13.868	VV	341	8108	0.17%	0.017%
132	13.907	13.868	13.928	VV	170	4526	0.09%	0.010%
133	13.992	13.928	14.015	VV	1023	20046	0.41%	0.042%
134	14.041	14.015	14.094	VV	2470	41365	0.85%	0.088%
135	14.114	14.094	14.133	VV	473	7872	0.16%	0.017%
136	14.149	14.133	14.221	VV	291	9470	0.19%	0.020%
137	14.272	14.221	14.291	PV	333	7730	0.16%	0.016%
138	14.342	14.291	14.370	VV	180	6225	0.13%	0.013%
139	14.444	14.370	14.461	PV	1062	22160	0.46%	0.047%
140	14.479	14.461	14.501	VV	1124	18606	0.38%	0.039%
141	14.550	14.501	14.581	VV	699	23272	0.48%	0.049%

					rteres			
142	14.604	14.581	14.627	VV	1930	27356	0.56%	0.058%
143	14.666	14.627	14.688	VV	1378	31179	0.64%	0.066%
144	14.709	14.688	14.778	VV	943	31178	0.64%	0.066%
145	14.852	14.778	14.878	VV	727	29712	0.61%	0.063%
146	14.896	14.878	14.928	VV	521	12062	0.25%	0.026%
147	14.999	14.928	15.031	VV	607	24368	0.50%	0.052%
148	15.143	15.031	15.168	VV	2947	78956	1.62%	0.167%
149	15.192	15.168	15.261	VV	3057	60955	1.25%	0.129%
150	15.278	15.261	15.308	VV	424	7156	0.15%	0.015%
151	15.394	15.308	15.413	VV	228	6230	0.13%	0.013%
152	15.526	15.413	15.608	PV	17070	323052	6.64%	0.684%
153	15.622	15.608	15.638	VV	704	10779	0.22%	0.023%
154	15.661	15.638	15.698	VV	2721	44086	0.91%	0.093%
155	15.731	15.698	15.768	VV	8576	119498	2.46%	0.253%
156	15.794	15.768	15.814	VV	470	7762	0.16%	0.016%
157	15.980	15.814	16.013	VV	579	43425	0.89%	0.092%
158	16.049	16.013	16.090	VV	929	31716	0.65%	0.067%
159	16.162	16.090	16.194	VV	4798	96910	1.99%	0.205%
160	16.228	16.194	16.270	VV	2024	41298	0.85%	0.087%
161	16.292	16.270	16.314	VV	303	4501	0.09%	0.010%
162	16.461	16.314	16.491	PV	315	9307	0.19%	0.020%
163	16.542	16.491	16.581	VV	2946	57175	1.17%	0.121%
164	16.644	16.581	16.668	VV	3685	71471	1.47%	0.151%
165	16.720	16.668	16.764	VV	5853	132902	2.73%	0.281%
166	16.872	16.764	16.901	VV	468	37433	0.77%	0.079%
167	17.006	16.901	17.044	PV	1561	54363	1.12%	0.115%
168	17.110	17.044	17.137	VV	6083	142908	2.94%	0.303%
169	17.190	17.137	17.248	VV	12011	227600	4.68%	0.482%
170	17.354	17.248	17.374	PV	738	21867	0.45%	0.046%
171	17.479	17.374	17.529	VV	11235	275228	5.66%	0.583%
172	17.560	17.529	17.611	VV	16022	266966	5.49%	0.565%
173	17.638	17.611	17.698	VV	2679	72295	1.49%	0.153%
174	17.732	17.698	17.758	VV	2371	46303	0.95%	0.098%
175	17.781	17.758	17.806	VV	1064	20802	0.43%	0.044%
176	17.924	17.806	17.944	PV	2992	81646	1.68%	0.173%
177	17.996	17.944	18.029	VV	7218	127864	2.63%	0.271%
178	18.088	18.029	18.117	VV	13103	244191	5.02%	0.517%
179	18.141	18.117	18.188	VV	4251	135751	2.79%	0.287%
180	18.225	18.188	18.251	VV	2989	82805	1.70%	0.175%
181	18.316	18.251	18.335	VV	8729	209297	4.30%	0.443%
182	18.359	18.335	18.391	VV	11009	253464	5.21%	0.537%
183	18.419	18.391	18.468	VV	31646	616150	12.66%	1.305%
184	18.485	18.468	18.497	VV	4734	78839	1.62%	0.167%
185	18.510	18.497	18.561	VV	4587	120820	2.48%	0.256%
186	18.697	18.561	18.741	VV	9617	432836	8.90%	0.916%
187	18.826	18.741	18.868	VV	13051	558117	11.47%	1.182%
188	18.935	18.868	18.993	VV	15974	671843	13.81%	1.423%
189	19.019	18.993	19.048	VV	11827	271129	5.57%	0.574%
190	19.184	19.048	19.206	VV	23239	989188	20.33%	2.094%
191	19.226	19.206	19.279	VV	19797	632590	13.00%	1.339%
192	19.312	19.279	19.334	VV	16475	454638	9.34%	0.963%
193	19.353	19.334	19.394	VV	16952	471278	9.69%	0.998%
194	19.440	19.394	19.511	VV	17589	889067	18.27%	1.882%

					rteres			
195	19.634	19.511	19.654	VV	15582	992665	20.40%	2.102%
196	19.679	19.654	19.703	VV	28155	568742	11.69%	1.204%
197	19.722	19.703	19.771	VV	20283	567216	11.66%	1.201%
198	19.830	19.771	19.854	VV	22071	677537	13.92%	1.435%
199	19.900	19.854	19.918	VV	14580	532112	10.94%	1.127%
200	19.961	19.918	20.074	VV	21137	1512351	31.08%	3.202%
201	20.142	20.074	20.197	VV	16821	1094946	22.50%	2.318%
202	20.253	20.197	20.278	VV	18798	828247	17.02%	1.754%
203	20.382	20.278	20.424	VV	23102	1833160	37.67%	3.881%
204	20.461	20.424	20.487	VV	21087	753966	15.49%	1.596%
205	20.509	20.487	20.531	VV	21988	516816	10.62%	1.094%
206	20.614	20.531	20.661	VV	26992	1824222	37.49%	3.862%
207	20.671	20.661	20.688	VV	24410	384475	7.90%	0.814%
208	20.703	20.688	20.734	VV	24223	642302	13.20%	1.360%
209	20.753	20.734	20.768	VV	23785	455044	9.35%	0.963%
210	20.880	20.768	21.040	VV	25899	3598886	73.96%	7.620%
211	21.159	21.040	21.191	VV	21737	1792036	36.83%	3.794%
212	21.219	21.191	21.347	VV	20639	1691042	34.75%	3.580%
213	21.403	21.347	21.416	VV	16968	632302	12.99%	1.339%
214	21.479	21.416	21.588	VV	17986	1625737	33.41%	3.442%
215	21.611	21.588	21.666	VV	12922	549676	11.30%	1.164%
216	21.737	21.666	21.758	VV	12108	611793	12.57%	1.295%
217	21.799	21.758	21.874	VV	12402	751168	15.44%	1.590%
218	21.887	21.874	21.919	VV	8921	219904	4.52%	0.466%
219	21.945	21.919	21.998	VV	8316	311970	6.41%	0.661%
220	22.078	21.998	22.124	VV	7855	453336	9.32%	0.960%
221	22.159	22.124	22.314	VV	7718	565621	11.62%	1.198%
222	22.326	22.314	22.361	VV	986	15228	0.31%	0.032%
Sum of corrected areas:					47229337			

Aliphatic EPH 100824.M Mon Oct 14 05:20:23 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-2	SDG No.:	P4385
Lab Sample ID:	P4385-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 16:03	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	13.0		1	1.89	2.10	mg/kg	FE050621.D
Aliphatic C9-C28	Aliphatic C9-C28	2.28	J	1	1.81	4.20	mg/kg	FE050621.D
Total AliphaticEPH	Total AliphaticEPH	15.3			3.70	6.30	mg/kg	
Total EPH	Total EPH	15.3			3.70	6.30	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-2	SDG No.:	P4385
Lab Sample ID:	P4385-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050621.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.28	J	1.81	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.0		1.89	2.10	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.2		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.1		40 - 140	58%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-04	Acq On:	11 Oct 2024 16:03
Client Sample ID:	SP-2	Operator:	YP\AJ
Data file:	FE050621.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	3.149	6.765	374816	2.623	300	ug/ml
Aliphatic C12-C16	6.766	10.197	683247	4.708	200	ug/ml
Aliphatic C16-C21	10.198	13.555	1674238	11.594	300	ug/ml
Aliphatic C21-C28	13.556	17.208	2302738	16.199	400	ug/ml
Aliphatic C28-C40	17.209	22.055	25652385	185.479	600	ug/ml
Aliphatic EPH	3.149	22.055	30687424	220.603		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	4584915	29.08		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	3690747	31.2		ug/ml
Aliphatic C9-C28	3.149	17.208	5035039	35.124	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050621.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 16:03
 Operator : YP\AJ
 Sample : P4385-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-2

Integration File: autoint1.e
 Quant Time: Oct 14 04:38:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.859	4584915	29.082 ug/ml
Spiked Amount 50.000		Recovery =	58.16%
12) S 1-chlorooctadecane (S...	13.293	3690747	31.200 ug/ml
Spiked Amount 50.000		Recovery =	62.40%

Target Compounds

(f)=RT Delta > 1/2 Window

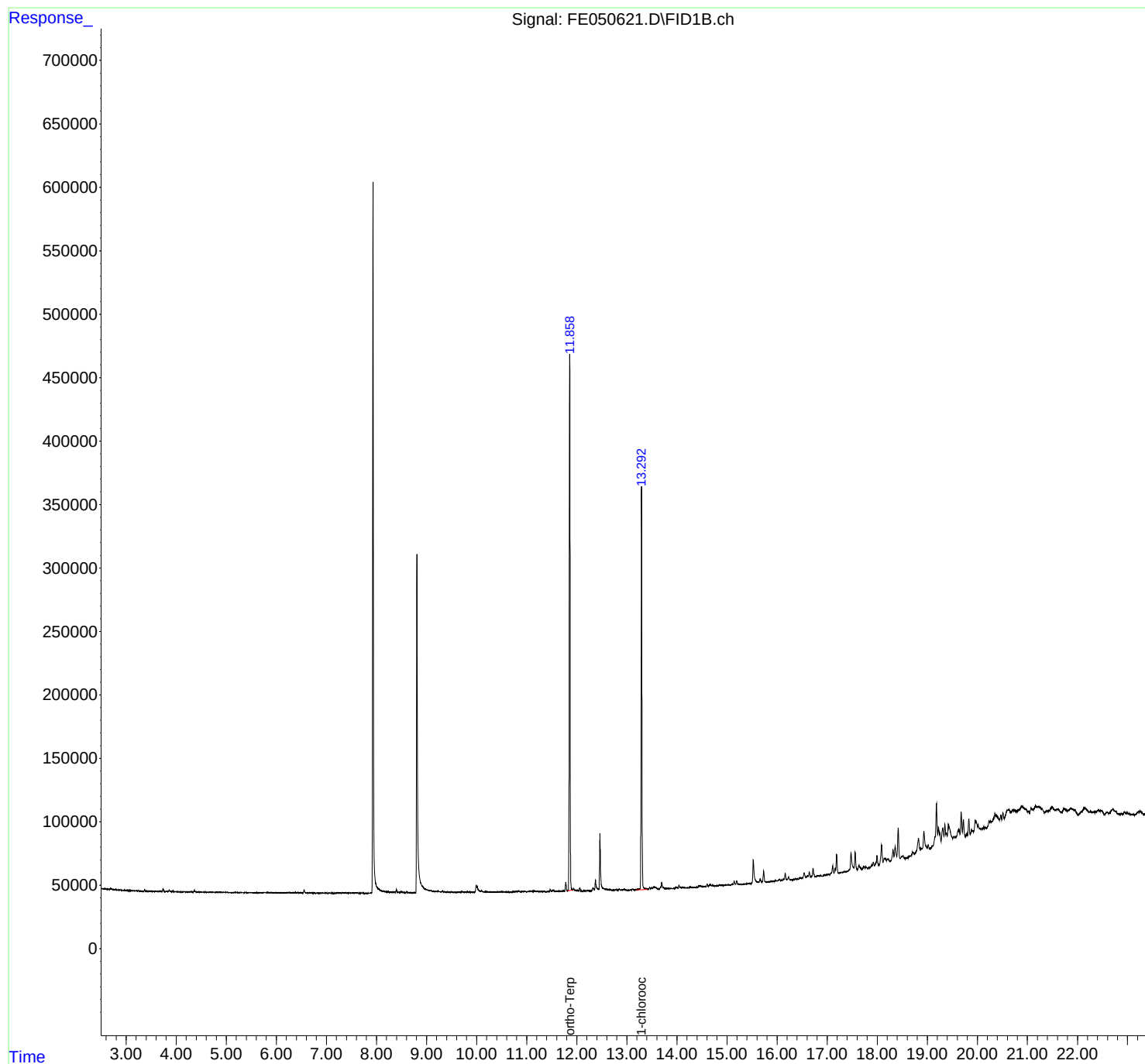
(m)=manual int.

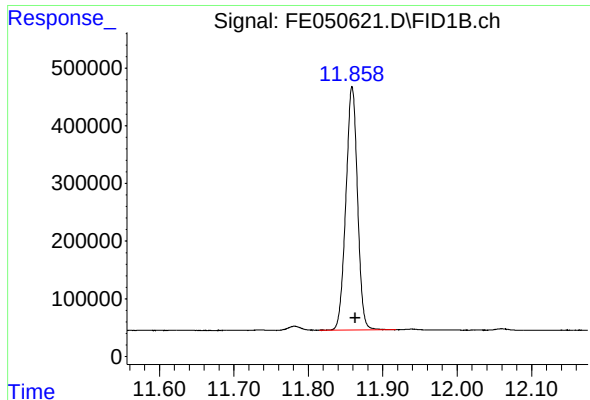
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050621.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 16:03
Operator : YP\AJ
Sample : P4385-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-2

Integration File: autoint1.e
Quant Time: Oct 14 04:38:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

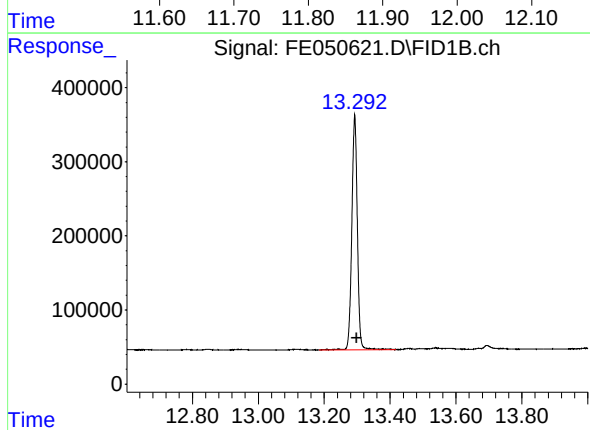




#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 4584915
Conc: 29.08 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-2



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 3690747
Conc: 31.20 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050621.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 16:03
Sample : P4385-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.248	3.188	3.283	BV	176	2138	0.05%	0.005%
2	3.293	3.283	3.329	PV	101	1017	0.02%	0.003%
3	3.370	3.329	3.409	PV	913	12514	0.27%	0.032%
4	3.441	3.409	3.483	VV	263	5240	0.11%	0.013%
5	3.493	3.483	3.578	PV	108	2724	0.06%	0.007%
6	3.602	3.578	3.637	VV	200	3467	0.07%	0.009%
7	3.651	3.637	3.670	VV	141	1713	0.04%	0.004%
8	3.686	3.670	3.713	PV	248	3268	0.07%	0.008%
9	3.736	3.713	3.834	VV	2082	34529	0.74%	0.087%
10	3.856	3.834	3.908	VV	1111	20364	0.44%	0.052%
11	3.932	3.908	4.008	VV	440	8322	0.18%	0.021%
12	4.013	4.008	4.035	VV	15	595	0.01%	0.002%
13	4.047	4.035	4.111	PV	114	1616	0.03%	0.004%
14	4.148	4.111	4.161	VV	129	2450	0.05%	0.006%
15	4.169	4.161	4.242	VV	166	5421	0.12%	0.014%
16	4.255	4.242	4.283	VV	166	3341	0.07%	0.008%
17	4.301	4.283	4.312	VV	195	2772	0.06%	0.007%
18	4.321	4.312	4.341	VV	241	3040	0.07%	0.008%
19	4.361	4.341	4.439	VV	1550	26568	0.57%	0.067%
20	4.452	4.439	4.490	VV	209	4080	0.09%	0.010%
21	4.501	4.490	4.583	VV	243	6731	0.15%	0.017%
22	4.596	4.583	4.608	VV	122	1271	0.03%	0.003%
23	4.619	4.608	4.654	VV	128	1684	0.04%	0.004%
24	4.674	4.654	4.706	PV	315	6390	0.14%	0.016%
25	4.732	4.706	4.828	VV	253	13682	0.30%	0.035%
26	4.835	4.828	4.850	VV	191	2059	0.04%	0.005%
27	4.876	4.850	4.989	VV	206	12841	0.28%	0.033%
28	4.998	4.989	5.135	VV	144	9233	0.20%	0.023%
29	5.162	5.135	5.182	VV	240	3796	0.08%	0.010%
30	5.195	5.182	5.224	VV	218	2573	0.06%	0.007%
31	5.245	5.224	5.378	VV	132	5918	0.13%	0.015%
32	5.396	5.378	5.444	VV	116	2532	0.05%	0.006%
33	5.478	5.444	5.568	VV	219	7864	0.17%	0.020%
34	5.591	5.568	5.614	VV	148	2490	0.05%	0.006%
35	5.670	5.614	5.707	PV	182	4508	0.10%	0.011%
36	5.749	5.707	5.771	VV	231	5655	0.12%	0.014%

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37	5.831	5.771	5.871	VV	317	13786	0.30%	0.035%
38	5.900	5.871	5.954	VV	363	10501	0.23%	0.027%
39	5.967	5.954	5.986	VV	181	3082	0.07%	0.008%
40	6.001	5.986	6.072	VV	225	7987	0.17%	0.020%
41	6.108	6.072	6.171	VV	279	7390	0.16%	0.019%
42	6.242	6.171	6.341	VV	358	22449	0.48%	0.057%
43	6.379	6.341	6.414	VV	620	13727	0.30%	0.035%
44	6.435	6.414	6.521	VV	460	15260	0.33%	0.039%
45	6.555	6.521	6.611	VV	2629	37731	0.81%	0.096%
46	6.625	6.611	6.658	VV	229	4854	0.10%	0.012%
47	6.667	6.658	6.721	VV	188	3643	0.08%	0.009%
48	6.848	6.721	6.890	PV	134	6311	0.14%	0.016%
49	6.907	6.890	7.021	VV	126	6387	0.14%	0.016%
50	7.046	7.021	7.092	VV	70	2008	0.04%	0.005%
51	7.113	7.092	7.135	PV	2	999	0.02%	0.003%
52	7.224	7.135	7.268	VV	151	6751	0.15%	0.017%
53	7.294	7.268	7.318	VV	186	3484	0.08%	0.009%
54	7.382	7.318	7.436	VV	277	11612	0.25%	0.029%
55	7.456	7.436	7.487	VV	206	3789	0.08%	0.010%
56	7.511	7.487	7.594	VV	232	9679	0.21%	0.025%
57	7.610	7.594	7.693	VV	191	6739	0.15%	0.017%
58	7.723	7.693	7.804	VV	81	4312	0.09%	0.011%
59	8.311	8.295	8.325	VV	717	12422	0.27%	0.031%
60	8.337	8.325	8.370	VV	684	17170	0.37%	0.043%
61	8.399	8.370	8.474	VV	2631	55053	1.19%	0.139%
62	8.493	8.474	8.574	VV	1147	30403	0.66%	0.077%
63	8.599	8.574	8.661	VV	522	18609	0.40%	0.047%
64	8.675	8.661	8.716	VV	293	7532	0.16%	0.019%
65	9.085	9.071	9.159	VV	2037	70675	1.52%	0.179%
66	9.173	9.159	9.204	VV	1039	25214	0.54%	0.064%
67	9.231	9.204	9.291	VV	1437	49437	1.07%	0.125%
68	9.319	9.291	9.387	VV	1185	39339	0.85%	0.100%
69	9.408	9.387	9.465	VV	536	18203	0.39%	0.046%
70	9.499	9.465	9.641	VV	348	25448	0.55%	0.064%
71	9.709	9.641	9.748	VV	529	21427	0.46%	0.054%
72	9.780	9.748	9.804	VV	333	9979	0.22%	0.025%
73	9.821	9.804	9.906	VV	466	13326	0.29%	0.034%
74	9.934	9.906	9.958	VV	478	5617	0.12%	0.014%
75	9.994	9.958	10.077	VV	5172	160666	3.47%	0.407%
76	10.097	10.077	10.191	VV	1117	40656	0.88%	0.103%
77	10.206	10.191	10.248	VV	422	9554	0.21%	0.024%
78	10.263	10.248	10.307	VV	320	7273	0.16%	0.018%
79	10.331	10.307	10.367	VV	238	5804	0.13%	0.015%
80	10.451	10.367	10.511	VV	403	21629	0.47%	0.055%
81	10.539	10.511	10.568	VV	335	9324	0.20%	0.024%
82	10.589	10.568	10.644	VV	318	10090	0.22%	0.026%
83	10.667	10.644	10.711	VV	190	5021	0.11%	0.013%
84	10.762	10.711	10.784	VV	442	10929	0.24%	0.028%
85	10.837	10.784	10.891	VV	847	28433	0.61%	0.072%
86	10.938	10.891	11.008	VV	471	23027	0.50%	0.058%
87	11.058	11.008	11.075	VV	949	18108	0.39%	0.046%
88	11.090	11.075	11.124	VV	771	15854	0.34%	0.040%
89	11.152	11.124	11.201	VV	793	25242	0.54%	0.064%

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90	11.225	11.201	11.300	VV	504	20358	0.44%	0.052%
91	11.341	11.300	11.388	VV	322	10970	0.24%	0.028%
92	11.424	11.388	11.443	PV	439	7076	0.15%	0.018%
93	11.470	11.443	11.495	VV	1652	23229	0.50%	0.059%
94	11.536	11.495	11.568	VV	1238	34000	0.73%	0.086%
95	11.584	11.568	11.607	VV	408	7921	0.17%	0.020%
96	11.631	11.607	11.674	VV	546	11674	0.25%	0.030%
97	11.735	11.674	11.758	VV	929	19990	0.43%	0.051%
98	11.782	11.758	11.814	VV	7418	94649	2.04%	0.240%
99	11.859	11.814	11.917	VV	423608	4635210	100.00%	11.741%
100	11.939	11.917	11.964	VV	2281	40869	0.88%	0.104%
101	11.981	11.964	12.011	VV	953	21316	0.46%	0.054%
102	12.060	12.011	12.121	VV	2796	48079	1.04%	0.122%
103	12.164	12.121	12.183	PV	360	8741	0.19%	0.022%
104	12.206	12.183	12.228	VV	711	10251	0.22%	0.026%
105	12.250	12.228	12.281	VV	424	8734	0.19%	0.022%
106	12.326	12.281	12.354	VV	2338	48261	1.04%	0.122%
107	12.374	12.354	12.441	VV	8335	166421	3.59%	0.422%
108	12.464	12.441	12.643	VV	45429	689533	14.88%	1.747%
109	12.662	12.643	12.723	VV	785	24084	0.52%	0.061%
110	12.783	12.723	12.824	VV	843	26396	0.57%	0.067%
111	12.847	12.824	12.901	VV	1143	22858	0.49%	0.058%
112	12.942	12.901	13.024	VV	762	25057	0.54%	0.063%
113	13.053	13.024	13.072	VV	201	2535	0.05%	0.006%
114	13.116	13.072	13.188	PV	978	20785	0.45%	0.053%
115	13.293	13.188	13.431	PV	313152	3703975	79.91%	9.382%
116	13.456	13.431	13.473	VV	1487	22823	0.49%	0.058%
117	13.493	13.473	13.518	VV	1224	27396	0.59%	0.069%
118	13.538	13.518	13.561	VV	1976	39944	0.86%	0.101%
119	13.579	13.561	13.643	VV	1346	36967	0.80%	0.094%
120	13.695	13.643	13.788	VV	5099	113349	2.45%	0.287%
121	13.995	13.788	14.016	VV	1006	28206	0.61%	0.071%
122	14.041	14.016	14.091	VV	2472	43427	0.94%	0.110%
123	14.114	14.091	14.180	VV	503	17137	0.37%	0.043%
124	14.198	14.180	14.218	VV	140	2089	0.05%	0.005%
125	14.272	14.218	14.320	PV	518	14269	0.31%	0.036%
126	14.340	14.320	14.364	VV	216	3464	0.07%	0.009%
127	14.442	14.364	14.508	PV	1141	46615	1.01%	0.118%
128	14.547	14.508	14.578	VV	542	16390	0.35%	0.042%
129	14.603	14.578	14.624	VV	2241	30794	0.66%	0.078%
130	14.665	14.624	14.694	VV	1735	40409	0.87%	0.102%
131	14.712	14.694	14.781	VV	1005	26613	0.57%	0.067%
132	14.850	14.781	14.872	PV	758	24784	0.53%	0.063%
133	14.888	14.872	14.933	VV	612	12688	0.27%	0.032%
134	14.999	14.933	15.036	VV	638	24661	0.53%	0.062%
135	15.048	15.036	15.068	VV	450	6387	0.14%	0.016%
136	15.142	15.068	15.167	VV	3105	63889	1.38%	0.162%
137	15.193	15.167	15.263	VV	3212	59742	1.29%	0.151%
138	15.284	15.263	15.304	VV	415	5578	0.12%	0.014%
139	15.341	15.304	15.361	PV	345	5110	0.11%	0.013%
140	15.524	15.361	15.608	VV	18232	367717	7.93%	0.931%
141	15.621	15.608	15.634	VV	877	12169	0.26%	0.031%

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142	15.661	15.634	15.698	VV	3447	60619	1.31%	0.154%
143	15.731	15.698	15.776	VV	9130	142987	3.08%	0.362%
144	15.794	15.776	15.813	VV	493	5560	0.12%	0.014%
145	15.893	15.813	15.944	VV	494	24890	0.54%	0.063%
146	15.976	15.944	15.998	VV	731	16979	0.37%	0.043%
147	16.051	15.998	16.096	VV	1195	40691	0.88%	0.103%
148	16.162	16.096	16.191	VV	5708	106491	2.30%	0.270%
149	16.228	16.191	16.307	VV	2569	54277	1.17%	0.137%
150	16.472	16.307	16.488	PV	750	38563	0.83%	0.098%
151	16.541	16.488	16.582	VV	4266	98029	2.11%	0.248%
152	16.643	16.582	16.671	VV	4581	100498	2.17%	0.255%
153	16.718	16.671	16.768	VV	6982	131200	2.83%	0.332%
154	16.871	16.768	16.897	VV	670	40242	0.87%	0.102%
155	16.945	16.897	16.964	PV	536	11742	0.25%	0.030%
156	17.021	16.964	17.048	VV	625	21949	0.47%	0.056%
157	17.110	17.048	17.136	VV	6715	126524	2.73%	0.320%
158	17.189	17.136	17.248	VV	15235	279043	6.02%	0.707%
159	17.350	17.248	17.371	VV	702	26281	0.57%	0.067%
160	17.477	17.371	17.534	VV	14313	342738	7.39%	0.868%
161	17.559	17.534	17.608	VV	14462	228373	4.93%	0.578%
162	17.636	17.608	17.688	VV	3793	92916	2.00%	0.235%
163	17.734	17.688	17.758	VV	2470	54600	1.18%	0.138%
164	17.776	17.758	17.807	VV	1550	28136	0.61%	0.071%
165	17.922	17.807	17.944	PV	3840	95913	2.07%	0.243%
166	17.995	17.944	18.037	VV	8403	170328	3.67%	0.431%
167	18.086	18.037	18.114	VV	15959	309579	6.68%	0.784%
168	18.164	18.114	18.184	VV	4823	164242	3.54%	0.416%
169	18.221	18.184	18.254	VV	3616	122487	2.64%	0.310%
170	18.316	18.254	18.335	VV	9766	221009	4.77%	0.560%
171	18.357	18.335	18.387	VV	11806	241929	5.22%	0.613%
172	18.418	18.387	18.459	VV	25903	451321	9.74%	1.143%
173	18.514	18.459	18.558	VV	3358	121291	2.62%	0.307%
174	18.710	18.558	18.743	VV	3673	185767	4.01%	0.471%
175	18.823	18.743	18.884	VV	13837	539597	11.64%	1.367%
176	18.933	18.884	18.998	VV	18198	578448	12.48%	1.465%
177	19.017	18.998	19.044	VV	7083	147813	3.19%	0.374%
178	19.183	19.044	19.208	VV	37766	1094015	23.60%	2.771%
179	19.223	19.208	19.274	VV	18536	542912	11.71%	1.375%
180	19.307	19.274	19.331	VV	16974	446053	9.62%	1.130%
181	19.352	19.331	19.396	VV	19690	536296	11.57%	1.358%
182	19.422	19.396	19.508	VV	19104	859399	18.54%	2.177%
183	19.529	19.508	19.550	VV	8252	193045	4.16%	0.489%
184	19.632	19.550	19.651	VV	13308	591831	12.77%	1.499%
185	19.677	19.651	19.701	VV	25702	498152	10.75%	1.262%
186	19.721	19.701	19.771	VV	19901	482036	10.40%	1.221%
187	19.829	19.771	19.857	VV	19511	528911	11.41%	1.340%
188	19.885	19.857	19.924	VV	9838	357174	7.71%	0.905%
189	19.961	19.924	20.076	VV	16704	1084947	23.41%	2.748%
190	20.153	20.076	20.184	VV	9890	592759	12.79%	1.501%
191	20.352	20.184	20.444	VV	18076	2138129	46.13%	5.416%
192	20.468	20.444	20.487	VV	16270	364369	7.86%	0.923%
193	20.510	20.487	20.534	VV	17547	415767	8.97%	1.053%
194	20.633	20.534	20.678	VV	19053	1451015	31.30%	3.675%

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195	20.703	20.678	20.769	VV	17965	923362	19.92%	2.339%
196	20.887	20.769	21.044	VV	18762	2668286	57.57%	6.759%
197	21.076	21.044	21.104	VV	15797	516110	11.13%	1.307%
198	21.165	21.104	21.341	VV	16515	1996008	43.06%	5.056%
199	21.380	21.341	21.420	VV	10571	474043	10.23%	1.201%
200	21.495	21.420	21.551	VV	12444	859304	18.54%	2.177%
201	21.602	21.551	21.681	VV	9257	654700	14.12%	1.658%
202	21.739	21.681	21.802	VV	8812	543834	11.73%	1.378%
203	21.876	21.802	22.017	VV	7359	717160	15.47%	1.817%
204	22.148	22.017	22.248	VV	5264	412043	8.89%	1.044%
205	22.262	22.248	22.296	VV	1412	27955	0.60%	0.071%
206	22.327	22.296	22.344	VV	587	12222	0.26%	0.031%
Sum of corrected areas:							39478831	

Aliphatic EPH 100824.M Mon Oct 14 05:20:45 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-3	SDG No.:	P4385
Lab Sample ID:	P4385-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.1
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 16:33	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	9.82		1	1.91	2.12	mg/kg	FE050622.D
Aliphatic C9-C28	Aliphatic C9-C28	2.58	J	1	1.83	4.24	mg/kg	FE050622.D
Total AliphaticEPH	Total AliphaticEPH	12.4			3.73	6.36	mg/kg	
Total EPH	Total EPH	12.4			3.73	6.36	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-3	SDG No.:	P4385
Lab Sample ID:	P4385-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050622.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.58	J	1.83	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.82		1.91	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.9		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.3		40 - 140	53%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-06	Acq On:	11 Oct 2024 16:33
Client Sample ID:	SP-3	Operator:	YP\AJ
Data file:	FE050622.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	3.149	6.765	508737	3.56	300	ug/ml
Aliphatic C12-C16	6.766	10.197	606987	4.183	200	ug/ml
Aliphatic C16-C21	10.198	13.555	4647470	32.184	300	ug/ml
Aliphatic C21-C28	13.556	17.208	1627070	11.446	400	ug/ml
Aliphatic C28-C40	17.209	22.055	19199457	138.821	600	ug/ml
Aliphatic EPH	3.149	22.055	26589721	190.194		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	4150307	26.33		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	3298795	27.89		ug/ml
Aliphatic C9-C28	3.149	17.208	7390264	51.373	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050622.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 16:33
 Operator : YP\AJ
 Sample : P4385-06
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-3

Manual Integrations
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Reviewed By :Yogesh Patel 10/14/2024
 Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
 Quant Time: Oct 14 04:38:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.859	4150307	26.325 ug/ml
Spiked Amount 50.000		Recovery =	52.65%
12) S 1-chlorooctadecane (S...	13.291	3298795	27.887 ug/mlm
Spiked Amount 50.000		Recovery =	55.77%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050622.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 16:33
Operator : YP\AJ
Sample : P4385-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

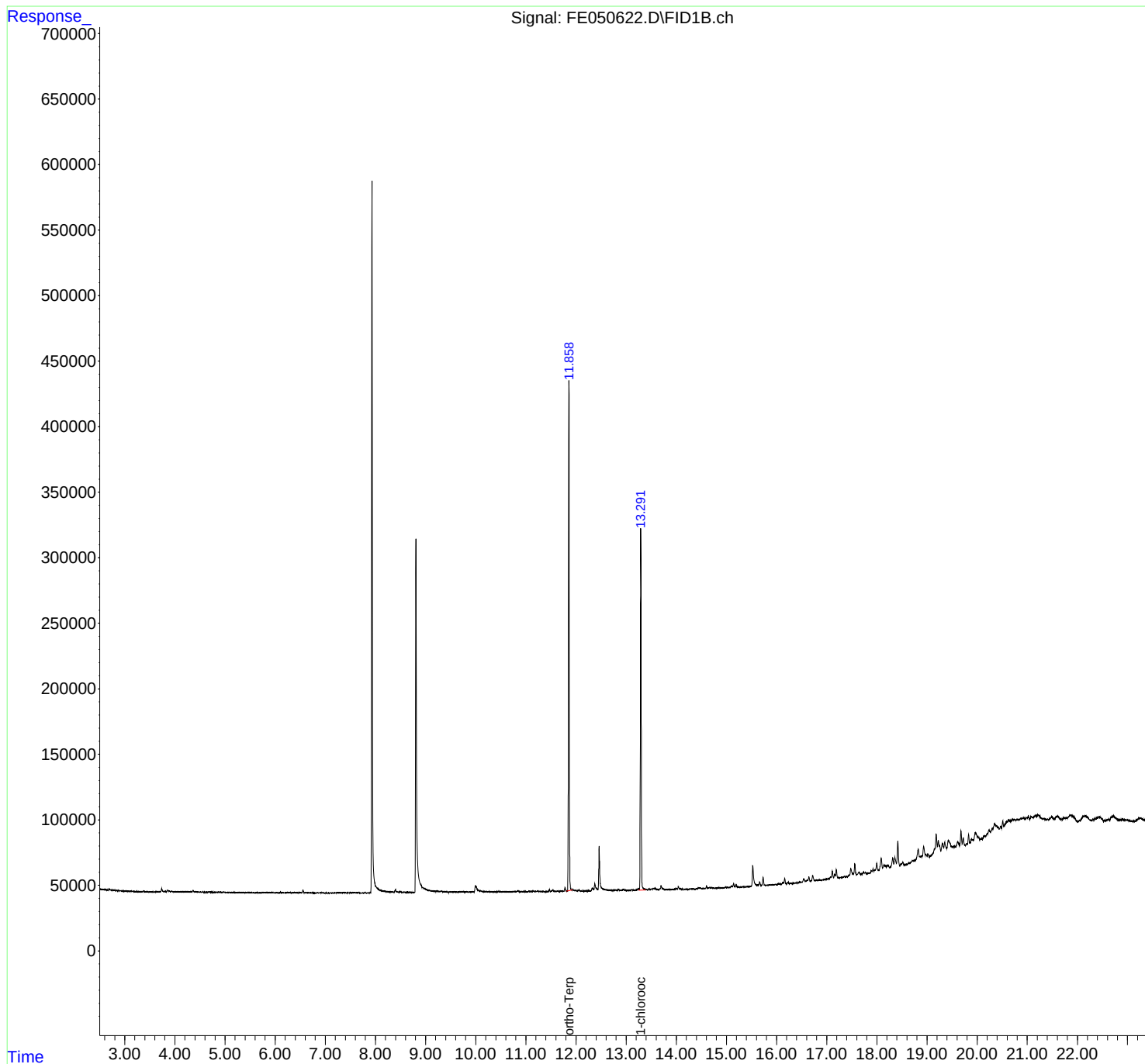
Instrument :
FID_E
ClientSampleId :
SP-3

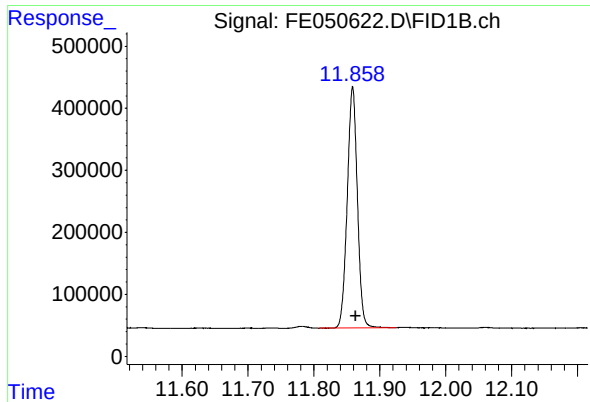
Manual Integrations
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Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:38:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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





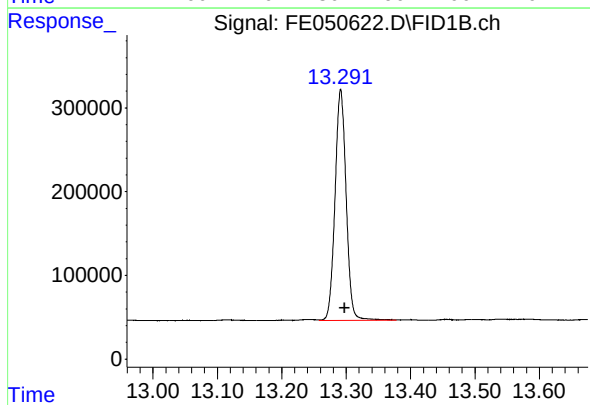
#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 4150307
Conc: 26.33 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-3

Manual Integrations
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Supervised By :Ankita Jodhani 10/14/2024



#12 1-chlorooctadecane (SURR)

R.T.: 13.291 min
Delta R.T.: -0.007 min
Response: 3298795
Conc: 27.89 ug/ml m

Instrument :

FID_E

ClientSampleId :

SP-3

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE10122
Data File : FE050622.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 16:33
Sample : P4385-06
Misc :
ALS Vial : 16 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.171	3.121	3.222	BV	56	2741	0.07%	0.009%
2	3.244	3.222	3.292	PV	152	2579	0.06%	0.008%
3	3.305	3.292	3.349	PV	82	1275	0.03%	0.004%
4	3.370	3.349	3.422	PV	787	11687	0.28%	0.037%
5	3.442	3.422	3.488	VV	262	3970	0.09%	0.013%
6	3.497	3.488	3.518	VV	98	820	0.02%	0.003%
7	3.527	3.518	3.537	VV	101	552	0.01%	0.002%
8	3.562	3.537	3.576	PV	143	2003	0.05%	0.006%
9	3.601	3.576	3.616	VV	188	3378	0.08%	0.011%
10	3.624	3.616	3.631	VV	158	1194	0.03%	0.004%
11	3.691	3.631	3.707	VV	378	10788	0.26%	0.035%
12	3.735	3.707	3.829	VV	2608	56058	1.34%	0.180%
13	3.856	3.829	3.913	VV	1692	40956	0.98%	0.131%
14	3.933	3.913	4.026	VV	775	31395	0.75%	0.101%
15	4.040	4.026	4.063	VV	390	7840	0.19%	0.025%
16	4.080	4.063	4.125	VV	406	12007	0.29%	0.038%
17	4.136	4.125	4.148	VV	371	4760	0.11%	0.015%
18	4.160	4.148	4.171	VV	358	4756	0.11%	0.015%
19	4.178	4.171	4.197	VV	363	5280	0.13%	0.017%
20	4.240	4.197	4.289	VV	462	20718	0.49%	0.066%
21	4.298	4.289	4.328	VV	434	9067	0.22%	0.029%
22	4.362	4.328	4.484	VV	1634	46641	1.11%	0.149%
23	4.498	4.484	4.519	VV	392	6450	0.15%	0.021%
24	4.529	4.519	4.568	VV	296	7218	0.17%	0.023%
25	4.577	4.568	4.606	VV	272	5031	0.12%	0.016%
26	4.620	4.606	4.651	VV	309	5358	0.13%	0.017%
27	4.678	4.651	4.808	VV	397	21356	0.51%	0.068%
28	4.818	4.808	4.875	VV	212	7115	0.17%	0.023%
29	4.907	4.875	4.982	VV	220	11896	0.28%	0.038%
30	5.084	5.058	5.141	VV	176	4611	0.11%	0.015%
31	5.162	5.141	5.179	VV	263	3135	0.07%	0.010%
32	5.191	5.179	5.218	VV	182	2763	0.07%	0.009%
33	5.231	5.218	5.393	VV	117	8518	0.20%	0.027%
34	5.409	5.393	5.433	VV	148	2137	0.05%	0.007%
35	5.476	5.433	5.555	VV	255	8856	0.21%	0.028%
36	5.567	5.555	5.631	VV	74	2832	0.07%	0.009%

					retention	Area	Area%	Area%
37	5.662	5.631	5.704	VV	119	2523	0.06%	0.008%
38	5.800	5.704	5.858	PV	298	14423	0.06%	0.008%
39	5.897	5.858	6.015	VV	244	15236	0.06%	0.008%
40	6.022	6.015	6.077	VV	124	3888	0.06%	0.008%
41	6.106	6.077	6.191	VV	638	10842	0.06%	0.008%
42	6.243	6.191	6.343	VV	332	17505	0.06%	0.008%
43	6.379	6.343	6.406	VV	466	8737	0.21%	0.028%
44	6.435	6.406	6.521	VV	373	12487	0.30%	0.040%
45	6.556	6.521	6.611	VV	2268	33967	0.81%	0.109%
46	6.625	6.611	6.651	VV	201	4113	0.10%	0.013%
47	6.664	6.651	6.730	VV	164	5482	0.13%	0.018%
48	6.746	6.730	6.785	VV	76	1793	0.04%	0.006%
49	6.849	6.785	6.934	PV	142	8140	0.19%	0.026%
50	6.961	6.934	6.996	VV	141	3411	0.08%	0.011%
51	7.018	6.996	7.075	VV	152	4242	0.10%	0.014%
52	7.106	7.075	7.172	PV	131	4648	0.11%	0.015%
53	7.239	7.172	7.267	VV	211	7039	0.17%	0.023%
54	7.299	7.267	7.326	VV	233	6432	0.15%	0.021%
55	7.359	7.326	7.436	VV	309	13405	0.32%	0.043%
56	7.464	7.436	7.480	VV	141	3119	0.07%	0.010%
57	7.509	7.480	7.524	VV	184	3940	0.09%	0.013%
58	7.559	7.524	7.594	VV	245	6716	0.16%	0.022%
59	7.613	7.594	7.698	VV	226	6792	0.16%	0.022%
60	7.702	7.698	7.761	VV	65	1092	0.03%	0.003%
61	7.780	7.761	7.860	VV	55	1880	0.04%	0.006%
62	8.309	8.293	8.328	VV	724	14394	0.34%	0.046%
63	8.343	8.328	8.368	VV	711	15181	0.36%	0.049%
64	8.400	8.368	8.446	VV	2588	49013	1.17%	0.157%
65	8.493	8.446	8.569	VV	993	39349	0.94%	0.126%
66	8.633	8.569	8.726	VV	452	26820	0.64%	0.086%
67	8.740	8.726	8.775	VV	228	3884	0.09%	0.012%
68	9.232	9.211	9.291	VV	1368	45542	1.09%	0.146%
69	9.318	9.291	9.454	VV	1091	56426	1.35%	0.181%
70	9.478	9.454	9.640	VV	429	31889	0.76%	0.102%
71	9.715	9.640	9.758	VV	491	23693	0.57%	0.076%
72	9.779	9.758	9.808	VV	341	9159	0.22%	0.029%
73	9.821	9.808	9.857	VV	385	8948	0.21%	0.029%
74	9.873	9.857	9.915	VV	306	5927	0.14%	0.019%
75	9.935	9.915	9.956	VV	423	6003	0.14%	0.019%
76	9.996	9.956	10.079	VV	4758	156089	3.72%	0.500%
77	10.098	10.079	10.201	VV	1198	43814	1.05%	0.140%
78	10.206	10.201	10.241	VV	475	7236	0.17%	0.023%
79	10.266	10.241	10.305	VV	365	9876	0.24%	0.032%
80	10.327	10.305	10.401	VV	217	8232	0.20%	0.026%
81	10.451	10.401	10.471	VV	341	9311	0.22%	0.030%
82	10.484	10.471	10.514	VV	324	6549	0.16%	0.021%
83	10.588	10.514	10.609	VV	283	12719	0.30%	0.041%
84	10.624	10.609	10.670	VV	241	5131	0.12%	0.016%
85	10.760	10.670	10.788	VV	411	13321	0.32%	0.043%
86	10.837	10.788	10.879	VV	698	19009	0.45%	0.061%
87	10.941	10.879	11.015	VV	298	16414	0.39%	0.053%
88	11.058	11.015	11.112	VV	565	17049	0.41%	0.055%
89	11.149	11.112	11.198	VV	600	20816	0.50%	0.067%

Instrument :

FID_E

ClientSampleId :

SP-3

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					rters			
90	11.224	11.198	11.305	VV	354	16488	0.39%	0.053%
91	11.326	11.305	11.373	VV	199	5367		
92	11.426	11.373	11.443	PV	263	4013		
93	11.471	11.443	11.496	VV	1413	19166		
94	11.539	11.496	11.608	VV	1098	28405		
95	11.631	11.608	11.675	VV	368	8034		
96	11.699	11.675	11.718	VV	324	4842	0.12%	0.016%
97	11.736	11.718	11.753	VV	532	6290	0.15%	0.020%
98	11.782	11.753	11.818	VV	3147	42817	1.02%	0.137%
99	11.859	11.818	11.925	VV	387388	4192496	100.00%	13.428%
100	11.937	11.925	11.968	VV	1457	26326	0.63%	0.084%
101	11.980	11.968	12.041	VV	718	22902	0.55%	0.073%
102	12.061	12.041	12.121	VV	1294	20499	0.49%	0.066%
103	12.151	12.121	12.180	VV	201	5386	0.13%	0.017%
104	12.207	12.180	12.285	VV	524	13599	0.32%	0.044%
105	12.326	12.285	12.355	PV	2373	48738	1.16%	0.156%
106	12.377	12.355	12.434	VV	5582	129538	3.09%	0.415%
107	12.463	12.434	12.638	VV	33725	553042	13.19%	1.771%
108	12.657	12.638	12.738	VV	739	26057	0.62%	0.083%
109	12.784	12.738	12.821	VV	718	20019	0.48%	0.064%
110	12.846	12.821	12.881	VV	1004	17839	0.43%	0.057%
111	12.941	12.881	13.021	VV	1037	31627	0.75%	0.101%
112	13.053	13.021	13.075	VV	280	3608	0.09%	0.012%
113	13.116	13.075	13.188	PV	838	17660	0.42%	0.057%
114	13.292	13.188	13.429	VV	275374	3357829	80.09%	10.755%
115	13.456	13.429	13.475	VV	1196	18826	0.45%	0.060%
116	13.496	13.475	13.518	VV	897	20344	0.49%	0.065%
117	13.541	13.518	13.568	VV	1447	32546	0.78%	0.104%
118	13.582	13.568	13.644	VV	1202	31731	0.76%	0.102%
119	13.698	13.644	13.785	VV	3174	83939	2.00%	0.269%
120	13.839	13.785	13.871	VV	258	9333	0.22%	0.030%
121	13.901	13.871	13.931	VV	230	5343	0.13%	0.017%
122	13.995	13.931	14.016	VV	1124	21854	0.52%	0.070%
123	14.041	14.016	14.138	VV	2504	52528	1.25%	0.168%
124	14.150	14.138	14.191	VV	385	7246	0.17%	0.023%
125	14.203	14.191	14.228	VV	290	3466	0.08%	0.011%
126	14.275	14.228	14.325	PV	277	10297	0.25%	0.033%
127	14.338	14.325	14.358	VV	115	1847	0.04%	0.006%
128	14.443	14.358	14.462	VV	878	17707	0.42%	0.057%
129	14.479	14.462	14.521	VV	912	16263	0.39%	0.052%
130	14.550	14.521	14.581	VV	395	9045	0.22%	0.029%
131	14.603	14.581	14.628	VV	2159	26979	0.64%	0.086%
132	14.666	14.628	14.690	VV	1096	21179	0.51%	0.068%
133	14.711	14.690	14.781	VV	533	13873	0.33%	0.044%
134	14.852	14.781	14.881	PV	322	10786	0.26%	0.035%
135	14.894	14.881	14.913	VV	188	2583	0.06%	0.008%
136	14.996	14.913	15.055	PV	381	11780	0.28%	0.038%
137	15.101	15.055	15.118	VV	1407	21108	0.50%	0.068%
138	15.143	15.118	15.168	VV	3073	46505	1.11%	0.149%
139	15.192	15.168	15.271	VV	2382	44228	1.05%	0.142%
140	15.285	15.271	15.305	VV	168	2439	0.06%	0.008%
141	15.341	15.305	15.360	VV	212	3865	0.09%	0.012%

Instrument :

FID_E

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SP-3

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					rters			
142	15.525	15.360	15.635	PV	15603	318980	7.61%	1.022%
143	15.662	15.635	15.697	VV	3186	51822		
144	15.730	15.697	15.774	VV	6358	92404		
145	15.795	15.774	15.825	VV	239	3760		
146	15.982	15.825	16.005	PV	272	13414		
147	16.051	16.005	16.085	VV	551	16361		
148	16.161	16.085	16.205	VV	4303	89233	2.13%	0.286%
149	16.229	16.205	16.265	VV	1463	23528	0.56%	0.075%
150	16.291	16.265	16.311	VV	220	4880	0.12%	0.016%
151	16.458	16.311	16.488	PV	444	15811	0.38%	0.051%
152	16.542	16.488	16.581	VV	2720	64925	1.55%	0.208%
153	16.644	16.581	16.681	VV	3737	79662	1.90%	0.255%
154	16.721	16.681	16.775	VV	4372	85893	2.05%	0.275%
155	16.874	16.775	16.898	VV	311	18409	0.44%	0.059%
156	16.946	16.898	16.963	PV	257	5564	0.13%	0.018%
157	17.110	16.963	17.136	VV	5942	126990	3.03%	0.407%
158	17.191	17.136	17.247	VV	6518	139510	3.33%	0.447%
159	17.359	17.247	17.375	PV	262	8516	0.20%	0.027%
160	17.481	17.375	17.530	VV	5861	152823	3.65%	0.489%
161	17.560	17.530	17.605	VV	9050	147360	3.51%	0.472%
162	17.639	17.605	17.685	VV	2001	55762	1.33%	0.179%
163	17.735	17.685	17.808	VV	1611	55704	1.33%	0.178%
164	17.923	17.808	17.943	PV	2603	62873	1.50%	0.201%
165	17.997	17.943	18.041	VV	6262	131757	3.14%	0.422%
166	18.085	18.041	18.116	VV	9321	196855	4.70%	0.631%
167	18.141	18.116	18.185	VV	3689	118124	2.82%	0.378%
168	18.223	18.185	18.255	VV	2744	87808	2.09%	0.281%
169	18.316	18.255	18.337	VV	7494	162608	3.88%	0.521%
170	18.359	18.337	18.391	VV	7223	157235	3.75%	0.504%
171	18.417	18.391	18.459	VV	19258	308630	7.36%	0.989%
172	18.515	18.459	18.551	VV	2344	65686	1.57%	0.210%
173	18.719	18.551	18.751	VV	1769	88945	2.12%	0.285%
174	18.824	18.751	18.861	VV	9726	291543	6.95%	0.934%
175	18.934	18.861	19.001	VV	10570	416146	9.93%	1.333%
176	19.018	19.001	19.046	VV	4270	83197	1.98%	0.266%
177	19.183	19.046	19.207	VV	17580	590415	14.08%	1.891%
178	19.225	19.207	19.276	VV	12505	349477	8.34%	1.119%
179	19.308	19.276	19.331	VV	9155	243653	5.81%	0.780%
180	19.353	19.331	19.390	VV	9861	257945	6.15%	0.826%
181	19.425	19.390	19.511	VV	10685	544754	12.99%	1.745%
182	19.527	19.511	19.544	VV	5269	97445	2.32%	0.312%
183	19.611	19.544	19.650	VV	8104	377171	9.00%	1.208%
184	19.678	19.650	19.701	VV	15823	297162	7.09%	0.952%
185	19.722	19.701	19.768	VV	10075	250276	5.97%	0.802%
186	19.829	19.768	19.856	VV	11628	321465	7.67%	1.030%
187	19.902	19.856	19.922	VV	7231	252519	6.02%	0.809%
188	19.963	19.922	20.068	VV	11790	732901	17.48%	2.347%
189	20.237	20.068	20.267	VV	11051	946458	22.58%	3.031%
190	20.348	20.267	20.441	VV	15357	1282323	30.59%	4.107%
191	20.468	20.441	20.485	VV	11901	288375	6.88%	0.924%
192	20.511	20.485	20.531	VV	15618	359115	8.57%	1.150%
193	20.628	20.531	20.667	VV	15073	1125177	26.84%	3.604%
194	20.743	20.667	20.771	VV	14940	908619	21.67%	2.910%

Instrument :

FID_E

ClientSampleId :

SP-3

Manual IntegrationsAPPROVED

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Area					rterres		SP-3	
195	20.801	20.771	20.841	VV	14342	589906	14.07%	1.889%
196	20.867	20.841	20.888	VV	14287	394318	9.88%	1.110%
197	20.929	20.888	20.954	VV	14107	543909	12.55%	1.617%
198	21.020	20.954	21.048	VV	14323	763099	18.22%	2.346%
199	21.079	21.048	21.102	VV	13848	428190	10.35%	1.333%
200	21.165	21.102	21.182	VV	13622	631906	15.54%	2.000%
201	21.215	21.182	21.304	VV	13644	899549	21.46%	2.881%
202	21.321	21.304	21.368	VV	10236	372224	8.88%	1.192%
203	21.407	21.368	21.424	VV	8742	295367	7.05%	0.946%
204	21.486	21.424	21.545	VV	9784	639233	15.25%	2.047%
205	21.594	21.545	21.690	VV	9151	692214	16.51%	2.217%
206	21.751	21.690	21.778	VV	6828	346712	8.27%	1.110%
207	21.868	21.778	22.008	VV	7829	786008	18.75%	2.518%
208	22.159	22.008	22.280	VV	4491	439312	10.48%	1.407%
Sum of corrected areas:					31221531			

Aliphatic EPH 100824.M Mon Oct 14 05:21:05 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-4	SDG No.:	P4385
Lab Sample ID:	P4385-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	99.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 17:03	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.87		1	1.81	2.02	mg/kg	FE050623.D
Aliphatic C9-C28	Aliphatic C9-C28	1.73	U	1	1.73	4.03	mg/kg	FE050623.D
Total AliphaticEPH	Total AliphaticEPH	7.87			3.54	6.05	mg/kg	
Total EPH	Total EPH	7.87			3.54	6.05	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-4	SDG No.:	P4385
Lab Sample ID:	P4385-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	99.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050623.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.73	U	1.73	4.03	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.87		1.81	2.02	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.2		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.3		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-08	Acq On:	11 Oct 2024 17:03
Client Sample ID:	SP-4	Operator:	YP\AJ
Data file:	FE050623.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	3.149	6.765	341152	2.387	300	ug/ml
Aliphatic C12-C16	6.766	10.197	627220	4.322	200	ug/ml
Aliphatic C16-C21	10.198	13.555	915798	6.342	300	ug/ml
Aliphatic C21-C28	13.556	17.208	1403695	9.874	400	ug/ml
Aliphatic C28-C40	17.209	22.055	16198653	117.124	600	ug/ml
Aliphatic EPH	3.149	22.055	19486518	140.05		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	5086040	32.26		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	4043373	34.18		ug/ml
Aliphatic C9-C28	3.149	17.208	3287865	22.925	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050623.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 17:03
Operator : YP\AJ
Sample : P4385-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-4

Integration File: autoint1.e
Quant Time: Oct 14 04:39:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 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)	11.859	5086040	32.260 ug/ml
Spiked Amount	50.000	Recovery	= 64.52%
12) S 1-chlorooctadecane (S...	13.293	4043373	34.181 ug/ml
Spiked Amount	50.000	Recovery	= 68.36%

Target Compounds

(f)=RT Delta > 1/2 Window

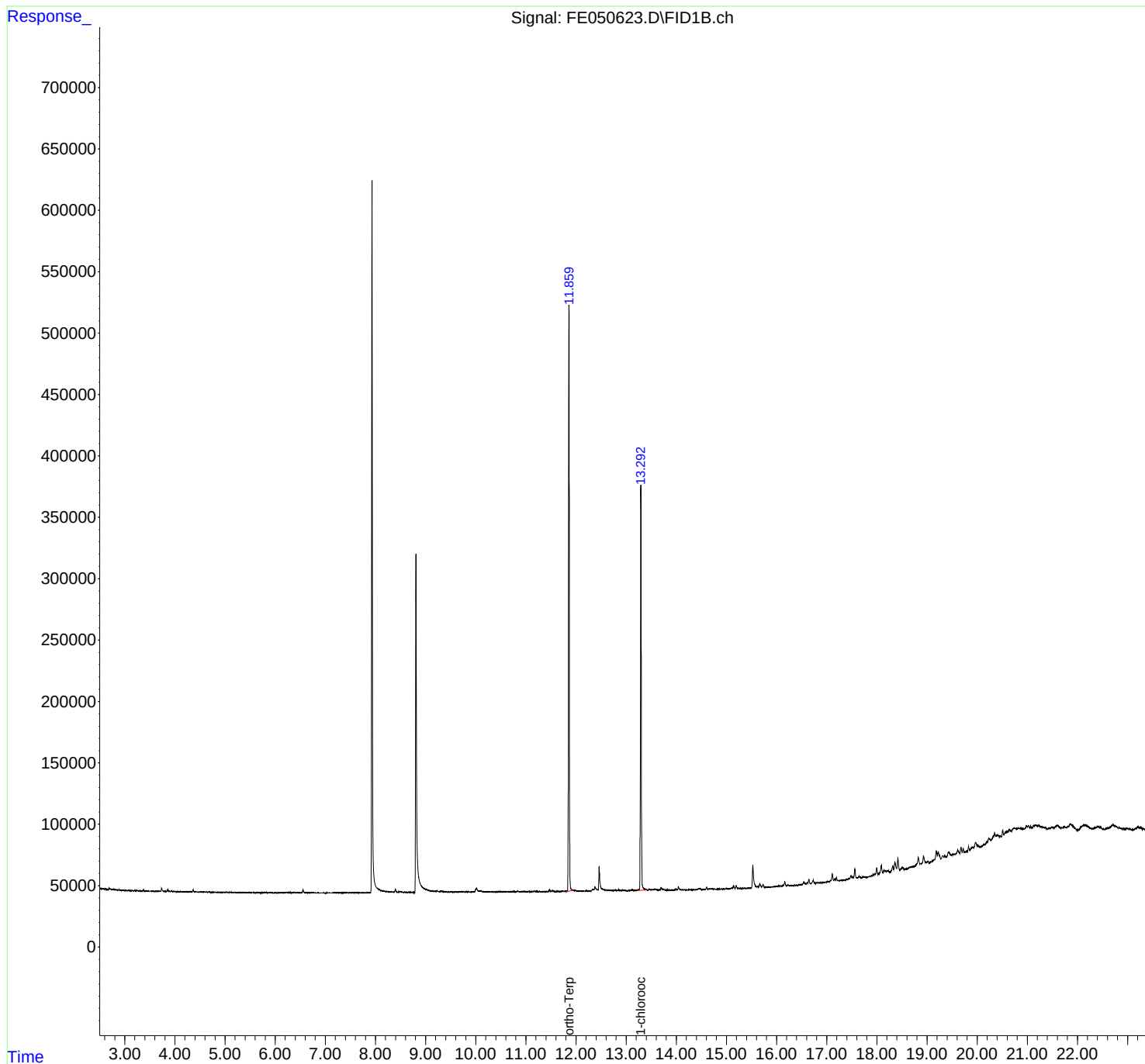
(m)=manual int.

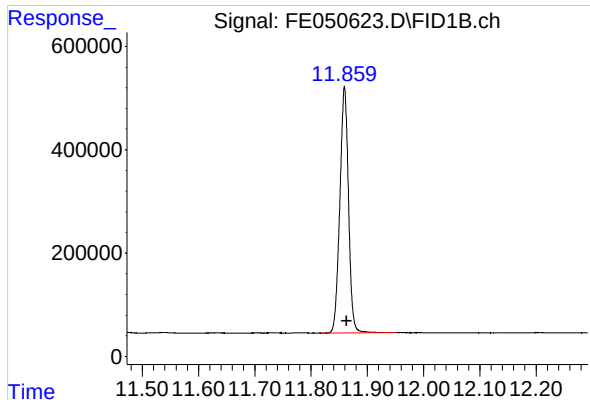
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050623.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 17:03
Operator : YP\AJ
Sample : P4385-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-4

Integration File: autoint1.e
Quant Time: Oct 14 04:39:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

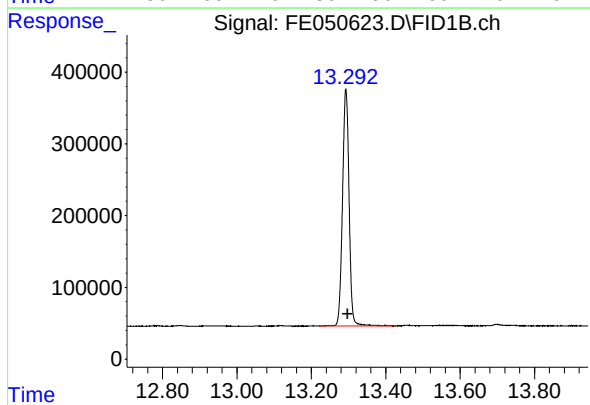




#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 5086040
Conc: 32.26 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-4



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 4043373
Conc: 34.18 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050623.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 17:03
Sample : P4385-08
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.151	3.104	3.183	BV	62	1220	0.02%	0.004%
2	3.198	3.183	3.221	PV	117	1258	0.02%	0.004%
3	3.242	3.221	3.350	VV	218	4776	0.09%	0.016%
4	3.371	3.350	3.433	PV	947	14276	0.28%	0.049%
5	3.443	3.433	3.516	VV	294	3875	0.08%	0.013%
6	3.530	3.516	3.548	VV	110	780	0.02%	0.003%
7	3.560	3.548	3.583	PV	134	1196	0.02%	0.004%
8	3.600	3.583	3.637	VV	101	1608	0.03%	0.006%
9	3.645	3.637	3.668	PV	66	633	0.01%	0.002%
10	3.688	3.668	3.718	VV	209	3097	0.06%	0.011%
11	3.735	3.718	3.829	VV	2758	39193	0.76%	0.134%
12	3.856	3.829	3.910	VV	1528	26599	0.52%	0.091%
13	3.934	3.910	4.027	VV	526	11137	0.22%	0.038%
14	4.045	4.027	4.101	PV	107	2473	0.05%	0.008%
15	4.107	4.101	4.181	VV	93	3332	0.06%	0.011%
16	4.196	4.181	4.251	VV	120	3515	0.07%	0.012%
17	4.280	4.251	4.307	VV	203	4413	0.09%	0.015%
18	4.320	4.307	4.338	VV	182	3035	0.06%	0.010%
19	4.362	4.338	4.486	VV	1720	31235	0.61%	0.107%
20	4.500	4.486	4.572	VV	208	5276	0.10%	0.018%
21	4.617	4.572	4.653	VV	156	3537	0.07%	0.012%
22	4.678	4.653	4.741	VV	216	5250	0.10%	0.018%
23	4.748	4.741	4.755	PV	78	464	0.01%	0.002%
24	4.790	4.755	4.828	VV	112	3266	0.06%	0.011%
25	4.866	4.828	4.937	VV	147	5648	0.11%	0.019%
26	4.955	4.937	4.965	VV	165	2171	0.04%	0.007%
27	4.981	4.965	5.001	VV	170	2466	0.05%	0.008%
28	5.031	5.001	5.064	VV	124	3418	0.07%	0.012%
29	5.079	5.064	5.108	VV	87	2231	0.04%	0.008%
30	5.114	5.108	5.140	VV	110	1518	0.03%	0.005%
31	5.161	5.140	5.229	VV	178	5719	0.11%	0.020%
32	5.238	5.229	5.272	VV	158	2190	0.04%	0.008%
33	5.283	5.272	5.324	VV	99	1722	0.03%	0.006%
34	5.334	5.324	5.382	VV	122	2119	0.04%	0.007%
35	5.437	5.382	5.450	PV	117	2369	0.05%	0.008%
36	5.476	5.450	5.589	VV	207	7633	0.15%	0.026%

					rteres			
37	5.598	5.589	5.617	VV	68	766	0.01%	0.003%
38	5.661	5.617	5.731	VV	207	6540	0.13%	0.022%
39	5.735	5.731	5.753	VV	109	923	0.02%	0.003%
40	5.758	5.753	5.785	VV	97	1516	0.03%	0.005%
41	5.799	5.785	5.811	VV	157	1647	0.03%	0.006%
42	5.829	5.811	5.856	VV	222	3443	0.07%	0.012%
43	5.871	5.856	5.878	VV	146	1254	0.02%	0.004%
44	5.896	5.878	5.929	VV	223	4753	0.09%	0.016%
45	5.937	5.929	5.978	VV	100	2455	0.05%	0.008%
46	5.999	5.978	6.088	VV	113	4919	0.10%	0.017%
47	6.110	6.088	6.143	PV	234	3561	0.07%	0.012%
48	6.156	6.143	6.172	VV	107	1212	0.02%	0.004%
49	6.209	6.172	6.220	VV	223	3069	0.06%	0.011%
50	6.246	6.220	6.359	VV	304	16638	0.32%	0.057%
51	6.381	6.359	6.408	VV	631	8824	0.17%	0.030%
52	6.436	6.408	6.458	VV	369	6944	0.13%	0.024%
53	6.467	6.458	6.513	VV	218	4846	0.09%	0.017%
54	6.556	6.513	6.618	VV	2792	41234	0.80%	0.141%
55	6.628	6.618	6.650	VV	254	3359	0.07%	0.012%
56	6.667	6.650	6.699	VV	215	3960	0.08%	0.014%
57	6.727	6.699	6.751	VV	125	3323	0.06%	0.011%
58	6.763	6.751	6.778	VV	132	1318	0.03%	0.005%
59	6.843	6.778	6.900	VV	131	5228	0.10%	0.018%
60	6.909	6.900	6.948	VV	116	2171	0.04%	0.007%
61	6.961	6.948	7.005	VV	212	3337	0.06%	0.011%
62	7.038	7.005	7.091	PV	125	3438	0.07%	0.012%
63	7.104	7.091	7.141	VV	123	2013	0.04%	0.007%
64	7.149	7.141	7.159	VV	121	849	0.02%	0.003%
65	7.183	7.159	7.214	VV	148	3361	0.07%	0.012%
66	7.222	7.214	7.295	VV	169	5936	0.12%	0.020%
67	7.348	7.295	7.357	VV	233	5752	0.11%	0.020%
68	7.385	7.357	7.434	VV	340	10137	0.20%	0.035%
69	7.473	7.434	7.484	VV	194	4281	0.08%	0.015%
70	7.509	7.484	7.540	VV	219	6779	0.13%	0.023%
71	7.561	7.540	7.591	VV	275	6258	0.12%	0.021%
72	7.614	7.591	7.628	VV	260	4673	0.09%	0.016%
73	7.637	7.628	7.661	VV	229	2743	0.05%	0.009%
74	7.679	7.661	7.701	VV	118	2609	0.05%	0.009%
75	7.704	7.701	7.715	VV	142	641	0.01%	0.002%
76	7.790	7.715	7.818	PV	108	4150	0.08%	0.014%
77	7.846	7.818	7.884	PV	129	2398	0.05%	0.008%
78	8.285	8.273	8.298	VV	761	10709	0.21%	0.037%
79	8.308	8.298	8.326	VV	757	11484	0.22%	0.039%
80	8.346	8.326	8.367	VV	691	15678	0.30%	0.054%
81	8.400	8.367	8.450	VV	2986	55295	1.07%	0.189%
82	8.493	8.450	8.578	VV	1210	42167	0.82%	0.144%
83	8.637	8.578	8.702	VV	408	21203	0.41%	0.073%
84	8.712	8.702	8.754	VV	204	5570	0.11%	0.019%
85	9.137	9.128	9.211	VV	1194	51562	1.00%	0.177%
86	9.229	9.211	9.301	VV	1412	51263	0.99%	0.176%
87	9.319	9.301	9.385	VV	1252	36794	0.71%	0.126%
88	9.396	9.385	9.461	VV	514	19516	0.38%	0.067%
89	9.473	9.461	9.491	VV	384	6427	0.12%	0.022%

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90	9.504	9.491	9.594	VV	476	19283	0.37%	0.066%
91	9.617	9.594	9.631	VV	328	6137	0.12%	0.021%
92	9.645	9.631	9.652	VV	268	3104	0.06%	0.011%
93	9.696	9.652	9.800	VV	446	28727	0.56%	0.098%
94	9.823	9.800	9.908	VV	377	16337	0.32%	0.056%
95	9.935	9.908	9.958	VV	469	7805	0.15%	0.027%
96	10.015	9.958	10.080	VV	3030	103418	2.01%	0.354%
97	10.098	10.080	10.204	VV	1117	37987	0.74%	0.130%
98	10.218	10.204	10.321	VV	247	14226	0.28%	0.049%
99	10.334	10.321	10.408	VV	194	6546	0.13%	0.022%
100	10.483	10.408	10.518	VV	333	15364	0.30%	0.053%
101	10.571	10.518	10.601	VV	259	9869	0.19%	0.034%
102	10.619	10.601	10.681	VV	217	6650	0.13%	0.023%
103	10.762	10.681	10.788	VV	455	13408	0.26%	0.046%
104	10.836	10.788	10.873	VV	682	17035	0.33%	0.058%
105	10.906	10.873	10.921	VV	250	5169	0.10%	0.018%
106	10.947	10.921	10.999	VV	335	9298	0.18%	0.032%
107	11.058	10.999	11.124	VV	387	11056	0.21%	0.038%
108	11.158	11.124	11.198	VV	292	10815	0.21%	0.037%
109	11.221	11.198	11.271	VV	267	8932	0.17%	0.031%
110	11.282	11.271	11.313	VV	240	4074	0.08%	0.014%
111	11.329	11.313	11.408	VV	147	3753	0.07%	0.013%
112	11.470	11.408	11.501	PV	1532	24977	0.48%	0.086%
113	11.538	11.501	11.581	VV	1121	23401	0.45%	0.080%
114	11.631	11.581	11.666	VV	379	9178	0.18%	0.031%
115	11.735	11.666	11.757	PV	495	11277	0.22%	0.039%
116	11.783	11.757	11.818	VV	486	7849	0.15%	0.027%
117	11.859	11.818	12.048	VV	469135	5155210	100.00%	17.655%
118	12.060	12.048	12.124	VV	368	9211	0.18%	0.032%
119	12.144	12.124	12.168	VV	258	5001	0.10%	0.017%
120	12.206	12.168	12.281	VV	631	16598	0.32%	0.057%
121	12.330	12.281	12.350	VV	1496	32858	0.64%	0.113%
122	12.379	12.350	12.441	VV	3407	98796	1.92%	0.338%
123	12.463	12.441	12.640	VV	19709	386852	7.50%	1.325%
124	12.659	12.640	12.750	VV	785	28260	0.55%	0.097%
125	12.784	12.750	12.816	VV	841	18813	0.36%	0.064%
126	12.847	12.816	12.881	VV	1074	18496	0.36%	0.063%
127	12.951	12.881	13.018	VV	512	23195	0.45%	0.079%
128	13.054	13.018	13.073	VV	273	3979	0.08%	0.014%
129	13.118	13.073	13.178	VV	703	18214	0.35%	0.062%
130	13.204	13.178	13.221	VV	534	7185	0.14%	0.025%
131	13.293	13.221	13.430	VV	328099	4080433	79.15%	13.974%
132	13.457	13.430	13.481	VV	1106	20743	0.40%	0.071%
133	13.504	13.481	13.528	VV	599	14720	0.29%	0.050%
134	13.577	13.528	13.641	VV	830	43092	0.84%	0.148%
135	13.699	13.641	13.795	VV	2257	66079	1.28%	0.226%
136	13.819	13.795	13.888	VV	304	10664	0.21%	0.037%
137	13.901	13.888	13.933	VV	185	3153	0.06%	0.011%
138	13.995	13.933	14.017	VV	1003	18925	0.37%	0.065%
139	14.042	14.017	14.131	VV	2642	48708	0.94%	0.167%
140	14.158	14.131	14.184	VV	133	3985	0.08%	0.014%
141	14.203	14.184	14.223	VV	125	1635	0.03%	0.006%

					rteres			
142	14.264	14.223	14.314	PV	156	4062	0.08%	0.014%
143	14.479	14.314	14.521	PV	998	36871	0.72%	0.126%
144	14.553	14.521	14.578	VV	408	7699	0.15%	0.026%
145	14.603	14.578	14.628	VV	1990	25300	0.49%	0.087%
146	14.708	14.628	14.814	VV	630	36686	0.71%	0.126%
147	14.858	14.814	14.934	VV	242	9090	0.18%	0.031%
148	14.998	14.934	15.044	PV	323	8300	0.16%	0.028%
149	15.143	15.044	15.168	VV	2672	53316	1.03%	0.183%
150	15.193	15.168	15.293	VV	2661	43921	0.85%	0.150%
151	15.339	15.293	15.358	PV	104	2251	0.04%	0.008%
152	15.526	15.358	15.604	PV	18363	344038	6.67%	1.178%
153	15.621	15.604	15.635	VV	1045	16165	0.31%	0.055%
154	15.663	15.635	15.708	VV	3301	68832	1.34%	0.236%
155	15.730	15.708	15.768	VV	2303	35697	0.69%	0.122%
156	15.798	15.768	15.823	VV	189	4061	0.08%	0.014%
157	16.049	15.823	16.098	PV	546	20131	0.39%	0.069%
158	16.163	16.098	16.208	VV	3646	65735	1.28%	0.225%
159	16.230	16.208	16.264	VV	943	13560	0.26%	0.046%
160	16.291	16.264	16.321	VV	183	3686	0.07%	0.013%
161	16.542	16.321	16.588	PV	2092	54062	1.05%	0.185%
162	16.644	16.588	16.678	VV	3945	79440	1.54%	0.272%
163	16.727	16.678	16.774	VV	2750	57205	1.11%	0.196%
164	16.809	16.774	16.833	VV	414	10174	0.20%	0.035%
165	16.872	16.833	16.898	VV	197	7170	0.14%	0.025%
166	16.945	16.898	16.960	PV	296	4922	0.10%	0.017%
167	17.110	16.960	17.138	VV	6269	120653	2.34%	0.413%
168	17.158	17.138	17.173	VV	2278	30349	0.59%	0.104%
169	17.192	17.173	17.245	VV	2763	44078	0.86%	0.151%
170	17.483	17.245	17.534	VV	3018	123297	2.39%	0.422%
171	17.560	17.534	17.610	VV	8114	134721	2.61%	0.461%
172	17.649	17.610	17.704	VV	1573	51795	1.00%	0.177%
173	17.768	17.704	17.804	VV	848	37822	0.73%	0.130%
174	17.840	17.804	17.861	PV	394	8964	0.17%	0.031%
175	17.996	17.861	18.038	VV	6171	172207	3.34%	0.590%
176	18.087	18.038	18.114	VV	6936	143891	2.79%	0.493%
177	18.141	18.114	18.183	VV	2926	89304	1.73%	0.306%
178	18.202	18.183	18.254	VV	2032	65613	1.27%	0.225%
179	18.317	18.254	18.335	VV	4897	105078	2.04%	0.360%
180	18.360	18.335	18.391	VV	7587	154109	2.99%	0.528%
181	18.419	18.391	18.458	VV	10259	177980	3.45%	0.610%
182	18.510	18.458	18.558	VV	2083	65176	1.26%	0.223%
183	18.723	18.558	18.740	VV	1114	55631	1.08%	0.191%
184	18.826	18.740	18.884	VV	7357	229619	4.45%	0.786%
185	18.932	18.884	18.994	VV	7372	225183	4.37%	0.771%
186	19.019	18.994	19.044	VV	2795	59407	1.15%	0.203%
187	19.185	19.044	19.205	VV	9363	312874	6.07%	1.071%
188	19.225	19.205	19.278	VV	8468	237807	4.61%	0.814%
189	19.316	19.278	19.336	VV	4591	125590	2.44%	0.430%
190	19.354	19.336	19.388	VV	4149	106148	2.06%	0.364%
191	19.427	19.388	19.483	VV	6459	265969	5.16%	0.911%
192	19.611	19.483	19.651	VV	6331	422592	8.20%	1.447%
193	19.678	19.651	19.701	VV	8177	170182	3.30%	0.583%
194	19.722	19.701	19.771	VV	6979	193691	3.76%	0.663%

						rteres		
195	19.829	19.771	19.858	VV	7176	240660	4.67%	0.824%
196	19.907	19.858	19.931	VV	6219	243712	4.73%	0.835%
197	19.971	19.931	20.074	VV	9255	583493	11.32%	1.998%
198	20.235	20.074	20.271	VV	10753	870432	16.88%	2.981%
199	20.350	20.271	20.384	VV	13382	745956	14.47%	2.555%
200	20.408	20.384	20.445	VV	11621	404442	7.85%	1.385%
201	20.510	20.445	20.531	VV	14654	577886	11.21%	1.979%
202	20.647	20.531	20.681	VV	13487	1135647	22.03%	3.889%
203	20.738	20.681	20.791	VV	14297	898840	17.44%	3.078%
204	20.827	20.791	20.850	VV	13332	473412	9.18%	1.621%
205	20.871	20.850	20.908	VV	13195	440562	8.55%	1.509%
206	20.985	20.908	20.999	VV	13772	697571	13.53%	2.389%
207	21.017	20.999	21.052	VV	13726	409880	7.95%	1.404%
208	21.068	21.052	21.091	VV	12638	287353	5.57%	0.984%
209	21.179	21.091	21.401	VV	12776	2055018	39.86%	7.038%
210	21.491	21.401	21.524	VV	8664	594278	11.53%	2.035%
211	21.601	21.524	21.689	VV	8881	768117	14.90%	2.630%
212	21.740	21.689	21.781	VV	6392	340174	6.60%	1.165%
213	21.864	21.781	22.001	VV	7667	696570	13.51%	2.385%
214	22.134	22.001	22.308	VV	4416	478294	9.28%	1.638%
					Sum of corrected areas:	29200455		

Aliphatic EPH 100824.M Mon Oct 14 05:21:30 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-5	SDG No.:	P4385
Lab Sample ID:	P4385-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 17:33	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	11.8		1	1.92	2.14	mg/kg FE050624.D
Aliphatic C9-C28	Aliphatic C9-C28	5.45		1	1.84	4.27	mg/kg FE050624.D
Total AliphaticEPH	Total AliphaticEPH	17.3			3.76	6.41	mg/kg
Total EPH	Total EPH	17.3			3.76	6.41	mg/kg

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-5	SDG No.:	P4385
Lab Sample ID:	P4385-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050624.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.45		1.84	4.27	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.8		1.92	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.8		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-10	Acq On:	11 Oct 2024 17:33
Client Sample ID:	SP-5	Operator:	YP\AJ
Data file:	FE050624.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	3.149	6.765	374311	2.619	300	ug/ml
Aliphatic C12-C16	6.766	10.197	999153	6.885	200	ug/ml
Aliphatic C16-C21	10.198	13.555	7590816	52.568	300	ug/ml
Aliphatic C21-C28	13.556	17.208	2433355	17.118	400	ug/ml
Aliphatic C28-C40	17.209	22.055	22915987	165.694	600	ug/ml
Aliphatic EPH	3.149	22.055	34313622	244.883		ug/ml
ortho-Terphenyl (SURR)	11.860	11.860	5805451	36.82		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	4602122	38.9		ug/ml
Aliphatic C9-C28	3.149	17.208	11397635	79.19	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050624.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 17:33
 Operator : YP\AJ
 Sample : P4385-10
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-5

Integration File: autoint1.e
 Quant Time: Oct 14 04:39:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.860	5805451	36.824 ug/ml
Spiked Amount	50.000	Recovery	= 73.65%
12) S 1-chlorooctadecane (S...	13.293	4602122	38.904 ug/ml
Spiked Amount	50.000	Recovery	= 77.81%

Target Compounds

(f)=RT Delta > 1/2 Window

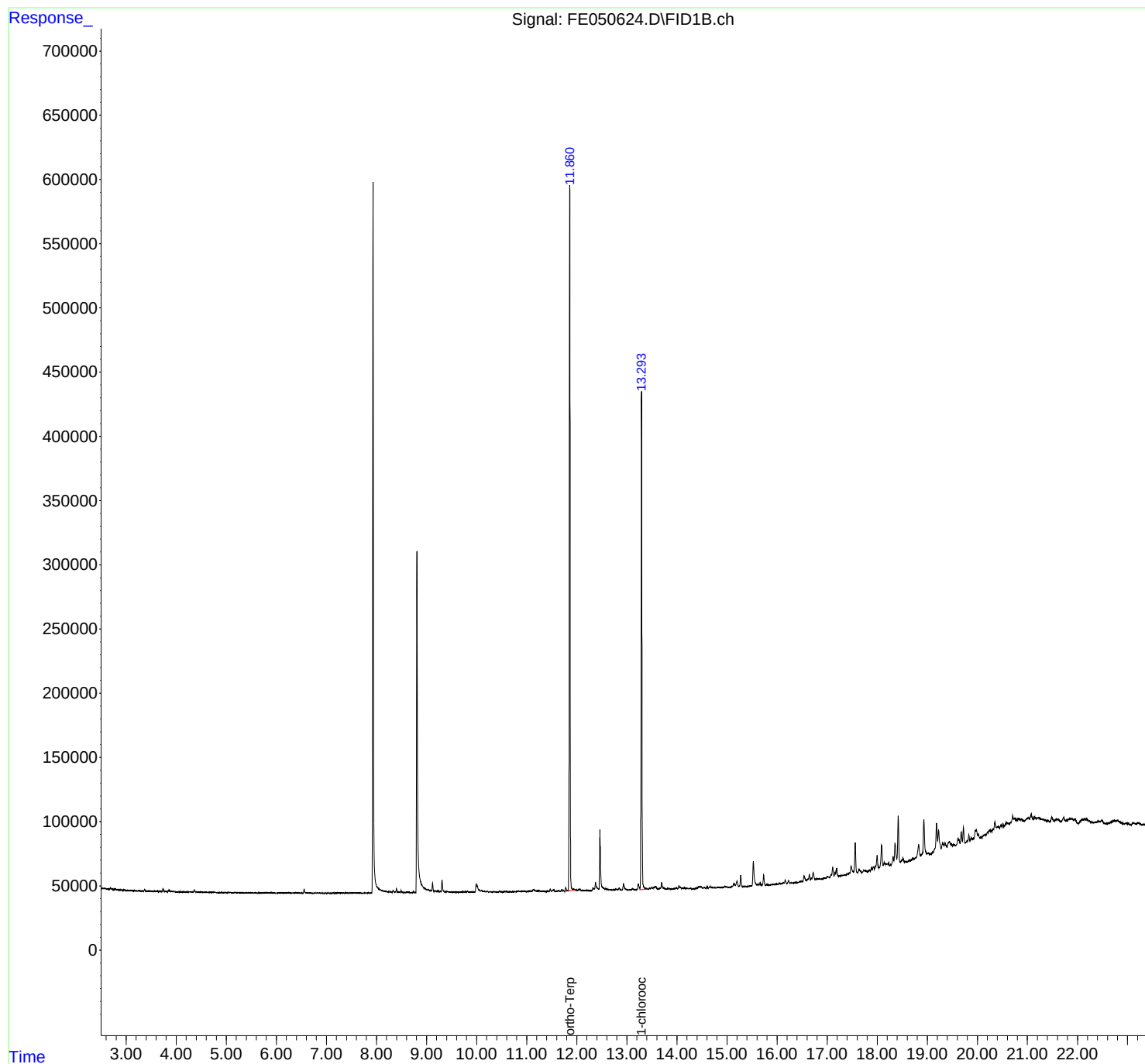
(m)=manual int.

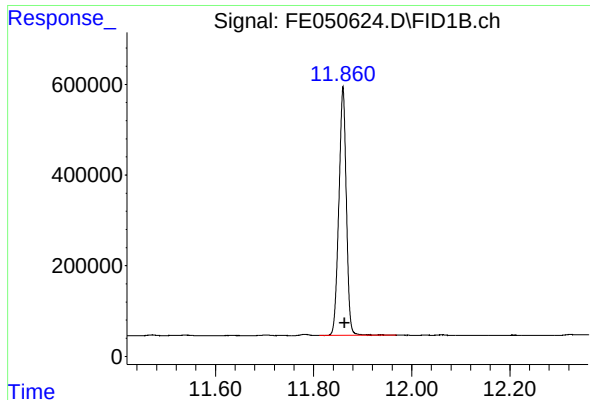
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050624.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 17:33
Operator : YP\AJ
Sample : P4385-10
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-5

Integration File: autoint1.e
Quant Time: Oct 14 04:39:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

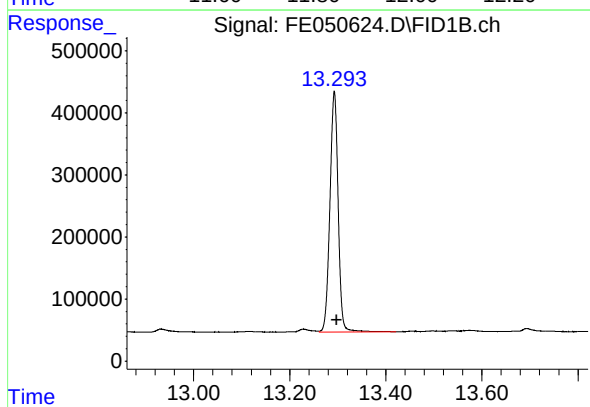




#9 ortho-Terphenyl (SURR)

R.T.: 11.860 min
Delta R.T.: -0.003 min
Response: 5805451
Conc: 36.82 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-5



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 4602122
Conc: 38.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050624.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 17:33
 Sample : P4385-10
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.171	3.121	3.222	BV	93	3431	0.06%	0.009%
2	3.243	3.222	3.336	PV	214	3585	0.06%	0.009%
3	3.369	3.336	3.428	PV	1109	16653	0.28%	0.042%
4	3.441	3.428	3.469	VV	197	2680	0.05%	0.007%
5	3.474	3.469	3.508	VV	119	1069	0.02%	0.003%
6	3.515	3.508	3.551	VV	62	922	0.02%	0.002%
7	3.559	3.551	3.588	PV	108	1457	0.02%	0.004%
8	3.598	3.588	3.642	VV	286	3071	0.05%	0.008%
9	3.651	3.642	3.670	VV	70	733	0.01%	0.002%
10	3.692	3.670	3.711	PV	180	2436	0.04%	0.006%
11	3.735	3.711	3.828	VV	2193	34528	0.59%	0.088%
12	3.855	3.828	3.910	VV	1178	22322	0.38%	0.057%
13	3.933	3.910	4.038	VV	482	11051	0.19%	0.028%
14	4.044	4.038	4.059	VV	95	870	0.01%	0.002%
15	4.068	4.059	4.117	VV	141	1944	0.03%	0.005%
16	4.176	4.117	4.205	PV	150	5588	0.10%	0.014%
17	4.250	4.205	4.271	VV	253	6807	0.12%	0.017%
18	4.297	4.271	4.337	VV	316	9827	0.17%	0.025%
19	4.361	4.337	4.487	VV	2010	40302	0.69%	0.102%
20	4.500	4.487	4.582	VV	256	8018	0.14%	0.020%
21	4.588	4.582	4.601	VV	154	1031	0.02%	0.003%
22	4.620	4.601	4.658	VV	164	2854	0.05%	0.007%
23	4.677	4.658	4.738	PV	364	7835	0.13%	0.020%
24	4.750	4.738	4.809	VV	155	5066	0.09%	0.013%
25	4.818	4.809	4.834	VV	148	1573	0.03%	0.004%
26	4.847	4.834	4.887	VV	200	3438	0.06%	0.009%
27	4.914	4.887	4.943	VV	190	3892	0.07%	0.010%
28	4.981	4.943	5.002	VV	160	4142	0.07%	0.011%
29	5.010	5.002	5.055	VV	119	2802	0.05%	0.007%
30	5.077	5.055	5.144	VV	164	4423	0.08%	0.011%
31	5.163	5.144	5.188	VV	232	3556	0.06%	0.009%
32	5.196	5.188	5.223	VV	160	2184	0.04%	0.006%
33	5.237	5.223	5.280	VV	211	3831	0.07%	0.010%
34	5.298	5.280	5.329	VV	130	2170	0.04%	0.006%
35	5.347	5.329	5.373	PV	111	1638	0.03%	0.004%
36	5.391	5.373	5.411	VV	148	1966	0.03%	0.005%

					rteres			
37	5.474	5.411	5.545	VV	286	9740	0.17%	0.025%
38	5.577	5.545	5.612	VV	147	3395	0.06%	0.009%
39	5.671	5.612	5.724	VV	213	5651	0.10%	0.014%
40	5.758	5.724	5.768	PV	198	3579	0.06%	0.009%
41	5.799	5.768	5.809	VV	270	5218	0.09%	0.013%
42	5.830	5.809	5.875	VV	335	8553	0.15%	0.022%
43	5.898	5.875	5.936	VV	301	7741	0.13%	0.020%
44	5.968	5.936	5.978	VV	175	2917	0.05%	0.007%
45	5.988	5.978	6.071	VV	130	4598	0.08%	0.012%
46	6.108	6.071	6.171	VV	239	5071	0.09%	0.013%
47	6.175	6.171	6.184	VV	119	398	0.01%	0.001%
48	6.240	6.184	6.308	VV	312	12836	0.22%	0.033%
49	6.318	6.308	6.348	VV	224	3609	0.06%	0.009%
50	6.380	6.348	6.415	VV	500	8748	0.15%	0.022%
51	6.435	6.415	6.485	VV	360	7559	0.13%	0.019%
52	6.491	6.485	6.517	VV	173	1948	0.03%	0.005%
53	6.556	6.517	6.651	PV	3073	46055	0.78%	0.117%
54	6.663	6.651	6.718	VV	194	4085	0.07%	0.010%
55	6.737	6.718	6.805	PV	73	2915	0.05%	0.007%
56	6.811	6.805	6.821	VV	90	733	0.01%	0.002%
57	6.848	6.821	6.887	VV	143	3146	0.05%	0.008%
58	6.914	6.887	7.008	VV	122	4882	0.08%	0.012%
59	7.017	7.008	7.041	VV	102	1018	0.02%	0.003%
60	7.048	7.041	7.056	VV	112	466	0.01%	0.001%
61	7.078	7.056	7.107	VV	97	1802	0.03%	0.005%
62	7.131	7.107	7.185	PV	162	3831	0.07%	0.010%
63	7.192	7.185	7.211	VV	124	1610	0.03%	0.004%
64	7.248	7.211	7.268	VV	212	4776	0.08%	0.012%
65	7.296	7.268	7.324	VV	248	5008	0.09%	0.013%
66	7.386	7.324	7.442	VV	388	13463	0.23%	0.034%
67	7.511	7.442	7.522	VV	229	7522	0.13%	0.019%
68	7.557	7.522	7.588	VV	237	6518	0.11%	0.017%
69	7.612	7.588	7.706	VV	263	7982	0.14%	0.020%
70	7.738	7.706	7.813	VV	155	3302	0.06%	0.008%
71	7.838	7.813	7.864	PV	163	2493	0.04%	0.006%
72	8.174	8.159	8.221	VV	1377	43698	0.74%	0.111%
73	8.245	8.221	8.300	VV	990	41867	0.71%	0.106%
74	8.334	8.300	8.367	VV	2066	40531	0.69%	0.103%
75	8.400	8.367	8.453	VV	3136	57667	0.98%	0.146%
76	8.492	8.453	8.574	VV	1699	44828	0.76%	0.114%
77	8.600	8.574	8.711	VV	804	31944	0.54%	0.081%
78	8.743	8.711	8.771	VV	1039	14243	0.24%	0.036%
79	9.121	9.101	9.151	VV	7704	102284	1.74%	0.259%
80	9.169	9.151	9.205	VV	1435	36492	0.62%	0.093%
81	9.231	9.205	9.278	VV	1441	44571	0.76%	0.113%
82	9.311	9.278	9.394	VV	9808	153790	2.62%	0.390%
83	9.413	9.394	9.485	VV	631	22553	0.38%	0.057%
84	9.505	9.485	9.557	VV	368	12088	0.21%	0.031%
85	9.598	9.557	9.648	VV	278	9807	0.17%	0.025%
86	9.716	9.648	9.758	VV	540	20847	0.35%	0.053%
87	9.822	9.758	9.908	VV	545	24161	0.41%	0.061%
88	9.934	9.908	9.954	VV	391	4989	0.08%	0.013%
89	9.994	9.954	10.079	VV	5700	184213	3.13%	0.467%

					rteres			
90	10.096	10.079	10.183	VV	1208	40028	0.68%	0.101%
91	10.208	10.183	10.246	VV	816	14426	0.25%	0.037%
92	10.269	10.246	10.323	VV	204	7554	0.13%	0.019%
93	10.338	10.323	10.401	VV	234	5266	0.09%	0.013%
94	10.482	10.401	10.509	VV	384	12642	0.22%	0.032%
95	10.589	10.509	10.671	VV	324	13901	0.24%	0.035%
96	10.709	10.671	10.735	VV	111	3115	0.05%	0.008%
97	10.760	10.735	10.782	VV	394	6183	0.11%	0.016%
98	10.836	10.782	10.888	VV	784	21734	0.37%	0.055%
99	10.907	10.888	11.005	VV	386	16563	0.28%	0.042%
100	11.058	11.005	11.101	VV	663	17084	0.29%	0.043%
101	11.133	11.101	11.198	VV	1486	54419	0.93%	0.138%
102	11.222	11.198	11.304	VV	721	30480	0.52%	0.077%
103	11.322	11.304	11.376	VV	256	7674	0.13%	0.019%
104	11.423	11.376	11.448	PV	186	5051	0.09%	0.013%
105	11.471	11.448	11.501	VV	1819	23368	0.40%	0.059%
106	11.538	11.501	11.569	VV	1378	29731	0.51%	0.075%
107	11.587	11.569	11.608	VV	219	4109	0.07%	0.010%
108	11.634	11.608	11.678	VV	549	9814	0.17%	0.025%
109	11.703	11.678	11.755	VV	1315	27050	0.46%	0.069%
110	11.782	11.755	11.815	VV	2932	37911	0.64%	0.096%
111	11.859	11.815	12.008	VV	536564	5879366	100.00%	14.904%
112	12.061	12.008	12.124	VV	1668	49022	0.83%	0.124%
113	12.147	12.124	12.180	VV	401	8090	0.14%	0.021%
114	12.207	12.180	12.229	VV	717	10200	0.17%	0.026%
115	12.253	12.229	12.288	VV	304	6217	0.11%	0.016%
116	12.325	12.288	12.351	PV	2129	46013	0.78%	0.117%
117	12.376	12.351	12.438	VV	6160	146856	2.50%	0.372%
118	12.464	12.438	12.645	VV	46419	723249	12.30%	1.833%
119	12.658	12.645	12.717	VV	822	23492	0.40%	0.060%
120	12.746	12.717	12.765	VV	650	14518	0.25%	0.037%
121	12.785	12.765	12.825	VV	971	24946	0.42%	0.063%
122	12.848	12.825	12.898	VV	1656	33300	0.57%	0.084%
123	12.934	12.898	13.028	VV	4911	104802	1.78%	0.266%
124	13.051	13.028	13.071	VV	256	4295	0.07%	0.011%
125	13.116	13.071	13.185	VV	995	26684	0.45%	0.068%
126	13.230	13.185	13.261	VV	4658	85095	1.45%	0.216%
127	13.293	13.261	13.431	VV	384011	4631441	78.77%	11.741%
128	13.455	13.431	13.473	VV	1381	22892	0.39%	0.058%
129	13.498	13.473	13.518	VV	1600	33704	0.57%	0.085%
130	13.575	13.518	13.641	VV	2514	100153	1.70%	0.254%
131	13.695	13.641	13.781	VV	5229	126889	2.16%	0.322%
132	13.834	13.781	13.874	VV	778	24841	0.42%	0.063%
133	13.903	13.874	13.921	VV	352	7400	0.13%	0.019%
134	13.991	13.921	14.016	VV	1083	32286	0.55%	0.082%
135	14.043	14.016	14.126	VV	2446	69409	1.18%	0.176%
136	14.145	14.126	14.180	VV	798	19183	0.33%	0.049%
137	14.200	14.180	14.231	VV	562	12249	0.21%	0.031%
138	14.265	14.231	14.285	VV	256	7763	0.13%	0.020%
139	14.302	14.285	14.341	VV	202	4519	0.08%	0.011%
140	14.443	14.341	14.461	PV	1653	45945	0.78%	0.116%
141	14.479	14.461	14.526	VV	1804	40817	0.69%	0.103%

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142	14.550	14.526	14.578	VV	675	14285	0.24%	0.036%
143	14.603	14.578	14.625	VV	1398	17597	0.30%	0.045%
144	14.664	14.625	14.688	VV	1270	25587	0.44%	0.065%
145	14.708	14.688	14.745	VV	683	12600	0.21%	0.032%
146	14.758	14.745	14.777	VV	341	4389	0.07%	0.011%
147	14.805	14.777	14.835	VV	607	11425	0.19%	0.029%
148	14.847	14.835	14.872	VV	350	6029	0.10%	0.015%
149	14.957	14.872	15.059	VV	981	36618	0.62%	0.093%
150	15.143	15.059	15.171	PV	2848	80171	1.36%	0.203%
151	15.197	15.171	15.241	VV	4557	98098	1.67%	0.249%
152	15.273	15.241	15.318	VV	9100	123736	2.10%	0.314%
153	15.334	15.318	15.393	VV	369	9715	0.17%	0.025%
154	15.525	15.393	15.605	PV	19316	383224	6.52%	0.971%
155	15.621	15.605	15.641	VV	1352	21623	0.37%	0.055%
156	15.661	15.641	15.698	VV	2147	37668	0.64%	0.095%
157	15.731	15.698	15.767	VV	8147	113257	1.93%	0.287%
158	15.792	15.767	15.829	VV	589	11404	0.19%	0.029%
159	15.846	15.829	15.860	VV	139	1674	0.03%	0.004%
160	15.932	15.860	15.961	PV	394	12056	0.21%	0.031%
161	15.982	15.961	16.005	VV	308	5392	0.09%	0.014%
162	16.047	16.005	16.091	PV	760	20410	0.35%	0.052%
163	16.162	16.091	16.196	VV	2968	61037	1.04%	0.155%
164	16.229	16.196	16.264	VV	2491	38404	0.65%	0.097%
165	16.292	16.264	16.321	VV	341	5977	0.10%	0.015%
166	16.399	16.321	16.415	PV	245	11144	0.19%	0.028%
167	16.540	16.415	16.587	PV	4533	124761	2.12%	0.316%
168	16.643	16.587	16.668	VV	4958	99237	1.69%	0.252%
169	16.720	16.668	16.774	VV	6252	150796	2.56%	0.382%
170	16.837	16.774	16.865	VV	617	31597	0.54%	0.080%
171	16.876	16.865	16.895	VV	290	3409	0.06%	0.009%
172	17.009	16.895	17.044	PV	1428	46847	0.80%	0.119%
173	17.110	17.044	17.137	VV	7855	163041	2.77%	0.413%
174	17.189	17.137	17.247	VV	6796	158693	2.70%	0.402%
175	17.348	17.247	17.367	VV	518	20688	0.35%	0.052%
176	17.480	17.367	17.526	VV	6375	188923	3.21%	0.479%
177	17.560	17.526	17.608	VV	24387	367786	6.26%	0.932%
178	17.638	17.608	17.694	VV	2617	75551	1.29%	0.192%
179	17.735	17.694	17.807	VV	1736	61378	1.04%	0.156%
180	17.925	17.807	17.943	PV	3031	101822	1.73%	0.258%
181	17.996	17.943	18.041	VV	11264	242527	4.13%	0.615%
182	18.087	18.041	18.118	VV	18457	342063	5.82%	0.867%
183	18.140	18.118	18.188	VV	4480	140478	2.39%	0.356%
184	18.225	18.188	18.252	VV	3070	94041	1.60%	0.238%
185	18.357	18.252	18.391	VV	17096	531158	9.03%	1.347%
186	18.419	18.391	18.460	VV	38486	606965	10.32%	1.539%
187	18.514	18.460	18.584	VV	4218	186128	3.17%	0.472%
188	18.715	18.584	18.738	VV	2587	164098	2.79%	0.416%
189	18.827	18.738	18.875	VV	12662	436089	7.42%	1.106%
190	18.931	18.875	18.995	VV	31187	751717	12.79%	1.906%
191	19.019	18.995	19.075	VV	4384	178934	3.04%	0.454%
192	19.184	19.075	19.206	VV	26076	713955	12.14%	1.810%
193	19.225	19.206	19.276	VV	20311	533575	9.08%	1.353%
194	19.310	19.276	19.336	VV	9292	286885	4.88%	0.727%

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195	19.354	19.336	19.392	VV	9487	264085	4.49%	0.669%
196	19.444	19.392	19.508	VV	9760	541002	9.20%	1.371%
197	19.525	19.508	19.568	VV	6526	219512	3.73%	0.556%
198	19.613	19.568	19.653	VV	10299	406859	6.92%	1.031%
199	19.679	19.653	19.701	VV	15014	303474	5.16%	0.769%
200	19.722	19.701	19.755	VV	18528	365463	6.22%	0.926%
201	19.830	19.755	19.855	VV	11683	470260	8.00%	1.192%
202	19.878	19.855	19.928	VV	8838	359674	6.12%	0.912%
203	19.978	19.928	20.052	VV	14261	805291	13.70%	2.041%
204	20.247	20.052	20.275	VV	11687	1237005	21.04%	3.136%
205	20.351	20.275	20.385	VV	17073	862817	14.68%	2.187%
206	20.409	20.385	20.448	VV	13107	474506	8.07%	1.203%
207	20.471	20.448	20.491	VV	14009	336090	5.72%	0.852%
208	20.512	20.491	20.530	VV	13804	312752	5.32%	0.793%
209	20.584	20.530	20.620	VV	14785	743743	12.65%	1.885%
210	20.707	20.620	20.778	VV	18947	1471107	25.02%	3.729%
211	20.818	20.778	20.856	VV	15814	721604	12.27%	1.829%
212	20.874	20.856	20.941	VV	15161	719947	12.25%	1.825%
213	21.019	20.941	21.044	VV	15412	881262	14.99%	2.234%
214	21.075	21.044	21.111	VV	17196	607319	10.33%	1.540%
215	21.139	21.111	21.178	VV	14179	546517	9.30%	1.385%
216	21.218	21.178	21.435	VV	13123	1713324	29.14%	4.343%
217	21.487	21.435	21.541	VV	11459	600497	10.21%	1.522%
218	21.581	21.541	21.665	VV	9038	606657	10.32%	1.538%
219	21.721	21.665	21.770	VV	9067	469252	7.98%	1.190%
220	21.875	21.770	21.928	VV	6962	621623	10.57%	1.576%
221	21.954	21.928	22.021	VV	6287	229584	3.90%	0.582%
222	22.155	22.021	22.328	VV	4249	501929	8.54%	1.272%
Sum of corrected areas:					39446994			

Aliphatic EPH 100824.M Mon Oct 14 05:21:52 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-6	SDG No.:	P4385
Lab Sample ID:	P4385-12	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 18:03	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.74		1	1.93	2.14	mg/kg	FE050625.D
Aliphatic C9-C28	Aliphatic C9-C28	1.85	U	1	1.85	4.29	mg/kg	FE050625.D
Total AliphaticEPH	Total AliphaticEPH	8.74			3.77	6.42	mg/kg	
Total EPH	Total EPH	8.74			3.77	6.42	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-6	SDG No.:	P4385
Lab Sample ID:	P4385-12	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050625.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.85	U	1.85	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.74		1.93	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.0		40 - 140	62%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-12	Acq On:	11 Oct 2024 18:03
Client Sample ID:	SP-6	Operator:	YP\AJ
Data file:	FE050625.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.149	6.765	330303	2.311	300	ug/ml
Aliphatic C12-C16	6.766	10.197	632628	4.359	200	ug/ml
Aliphatic C16-C21	10.198	13.555	1176503	8.147	300	ug/ml
Aliphatic C21-C28	13.556	17.208	1582361	11.131	400	ug/ml
Aliphatic C28-C40	17.209	22.055	16901447	122.206	600	ug/ml
Aliphatic EPH	3.149	22.055	20623242	148.155		ug/ml
ortho-Terphenyl (SURR)	11.858	11.858	4889673	31.01		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	3848721	32.54		ug/ml
Aliphatic C9-C28	3.149	17.208	3721795	25.948	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050625.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 18:03
 Operator : YP\AJ
 Sample : P4385-12
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-6

Integration File: autoint1.e
 Quant Time: Oct 14 04:39:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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	4889673	31.015 ug/ml
Spiked Amount 50.000		Recovery =	62.03%
12) S 1-chlorooctadecane (S...	13.292	3848721	32.535 ug/ml
Spiked Amount 50.000		Recovery =	65.07%

Target Compounds

(f)=RT Delta > 1/2 Window

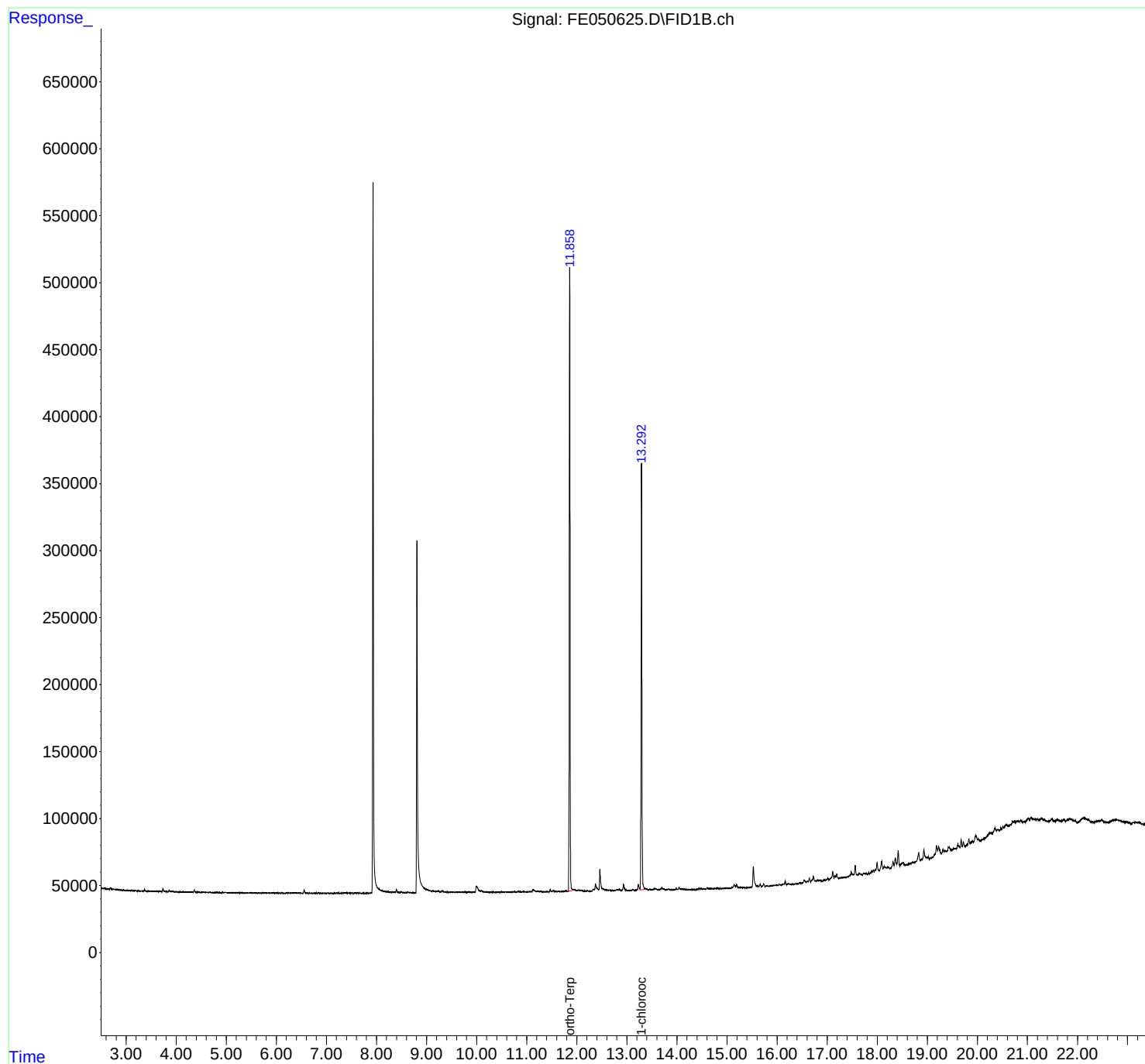
(m)=manual int.

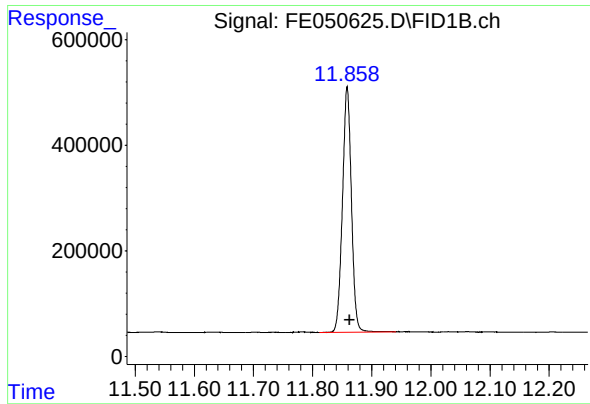
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050625.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 18:03
Operator : YP\AJ
Sample : P4385-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-6

Integration File: autoint1.e
Quant Time: Oct 14 04:39:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

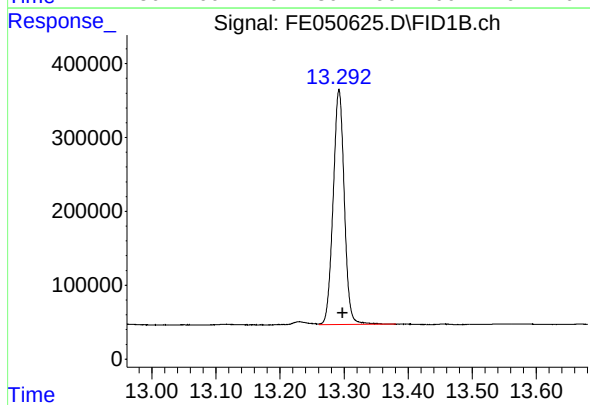




#9 ortho-Terphenyl (SURR)

R.T.: 11.858 min
Delta R.T.: -0.005 min
Response: 4889673
Conc: 31.01 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-6



#12 1-chlorooctadecane (SURR)

R.T.: 13.292 min
Delta R.T.: -0.006 min
Response: 3848721
Conc: 32.54 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050625.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 18:03
Sample : P4385-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.168	3.121	3.183	BV	60	615	0.01%	0.002%
2	3.201	3.183	3.221	VV	82	948	0.02%	0.003%
3	3.237	3.221	3.317	VV	162	2734	0.05%	0.009%
4	3.326	3.317	3.344	PV	73	708	0.01%	0.002%
5	3.369	3.344	3.427	VV	961	13655	0.27%	0.045%
6	3.440	3.427	3.561	VV	204	6801	0.14%	0.023%
7	3.567	3.561	3.581	VV	158	998	0.02%	0.003%
8	3.588	3.581	3.672	VV	52	2964	0.06%	0.010%
9	3.689	3.672	3.714	PV	181	2786	0.06%	0.009%
10	3.735	3.714	3.834	VV	2089	31440	0.63%	0.104%
11	3.856	3.834	3.912	VV	1098	20637	0.41%	0.068%
12	3.933	3.912	3.994	VV	477	8944	0.18%	0.030%
13	4.006	3.994	4.065	VV	77	2037	0.04%	0.007%
14	4.076	4.065	4.117	VV	71	1448	0.03%	0.005%
15	4.137	4.117	4.158	PV	133	1871	0.04%	0.006%
16	4.165	4.158	4.185	VV	110	1245	0.02%	0.004%
17	4.191	4.185	4.242	VV	111	3527	0.07%	0.012%
18	4.251	4.242	4.262	VV	145	1307	0.03%	0.004%
19	4.282	4.262	4.291	VV	175	1962	0.04%	0.007%
20	4.299	4.291	4.341	VV	178	4750	0.10%	0.016%
21	4.361	4.341	4.448	VV	1654	28083	0.56%	0.093%
22	4.456	4.448	4.485	VV	131	2583	0.05%	0.009%
23	4.501	4.485	4.519	VV	273	3475	0.07%	0.012%
24	4.528	4.519	4.602	VV	189	5477	0.11%	0.018%
25	4.614	4.602	4.649	VV	175	2916	0.06%	0.010%
26	4.675	4.649	4.751	PV	263	7383	0.15%	0.024%
27	4.763	4.751	4.781	VV	124	1606	0.03%	0.005%
28	4.798	4.781	4.825	VV	157	2617	0.05%	0.009%
29	4.837	4.825	4.851	VV	124	1310	0.03%	0.004%
30	4.868	4.851	4.891	VV	131	2046	0.04%	0.007%
31	4.960	4.891	5.067	VV	164	10847	0.22%	0.036%
32	5.080	5.067	5.121	VV	132	2743	0.06%	0.009%
33	5.124	5.121	5.151	VV	128	1440	0.03%	0.005%
34	5.163	5.151	5.218	VV	182	4664	0.09%	0.015%
35	5.233	5.218	5.426	VV	92	8132	0.16%	0.027%
36	5.481	5.426	5.521	PV	215	7616	0.15%	0.025%

					rteres			
37	5.538	5.521	5.621	VV	140	6048	0.12%	0.020%
38	5.663	5.621	5.714	VV	153	3437	0.07%	0.011%
39	5.828	5.714	5.869	PV	213	11049	0.22%	0.037%
40	5.896	5.869	5.968	VV	252	8485	0.17%	0.028%
41	5.980	5.968	6.081	VV	159	5886	0.12%	0.020%
42	6.104	6.081	6.142	VV	208	3076	0.06%	0.010%
43	6.163	6.142	6.188	VV	66	1161	0.02%	0.004%
44	6.247	6.188	6.336	VV	307	16676	0.33%	0.055%
45	6.379	6.336	6.421	VV	481	10457	0.21%	0.035%
46	6.438	6.421	6.518	VV	305	9342	0.19%	0.031%
47	6.556	6.518	6.647	VV	2594	42627	0.86%	0.141%
48	6.666	6.647	6.770	VV	196	7744	0.16%	0.026%
49	6.791	6.770	6.824	PV	302	2032	0.04%	0.007%
50	6.857	6.824	6.878	VV	107	2334	0.05%	0.008%
51	6.901	6.878	6.917	VV	92	2107	0.04%	0.007%
52	6.957	6.917	7.103	VV	145	7963	0.16%	0.026%
53	7.200	7.103	7.315	VV	167	11044	0.22%	0.037%
54	7.383	7.315	7.459	VV	217	11471	0.23%	0.038%
55	7.557	7.459	7.594	VV	177	10905	0.22%	0.036%
56	7.614	7.594	7.728	VV	275	7205	0.14%	0.024%
57	8.400	8.367	8.468	VV	2779	60070	1.21%	0.199%
58	8.493	8.468	8.564	VV	1044	30282	0.61%	0.100%
59	8.630	8.564	8.738	VV	422	27975	0.56%	0.093%
60	8.745	8.738	8.769	VV	237	2791	0.06%	0.009%
61	9.122	9.104	9.201	VV	1726	66874	1.34%	0.222%
62	9.230	9.201	9.288	VV	1354	47005	0.94%	0.156%
63	9.315	9.288	9.443	VV	1583	59911	1.20%	0.199%
64	9.474	9.443	9.491	VV	415	9823	0.20%	0.033%
65	9.507	9.491	9.551	VV	393	10224	0.21%	0.034%
66	9.619	9.551	9.663	VV	264	13841	0.28%	0.046%
67	9.719	9.663	9.808	VV	463	24497	0.49%	0.081%
68	9.825	9.808	9.918	VV	356	15523	0.31%	0.051%
69	9.934	9.918	9.955	VV	457	5684	0.11%	0.019%
70	9.996	9.955	10.081	VV	4500	154627	3.10%	0.513%
71	10.097	10.081	10.264	VV	1217	48440	0.97%	0.161%
72	10.280	10.264	10.306	VV	211	4304	0.09%	0.014%
73	10.323	10.306	10.411	VV	166	5324	0.11%	0.018%
74	10.446	10.411	10.468	VV	164	4262	0.09%	0.014%
75	10.484	10.468	10.520	VV	243	4979	0.10%	0.017%
76	10.574	10.520	10.673	VV	247	13749	0.28%	0.046%
77	10.760	10.673	10.791	PV	409	13764	0.28%	0.046%
78	10.836	10.791	10.884	VV	748	16959	0.34%	0.056%
79	10.906	10.884	10.920	VV	320	5062	0.10%	0.017%
80	10.943	10.920	11.014	VV	354	12035	0.24%	0.040%
81	11.055	11.014	11.086	VV	501	8738	0.18%	0.029%
82	11.126	11.086	11.198	VV	1816	57208	1.15%	0.190%
83	11.218	11.198	11.384	VV	683	34144	0.69%	0.113%
84	11.471	11.384	11.501	PV	1675	27170	0.55%	0.090%
85	11.538	11.501	11.603	VV	1190	25679	0.52%	0.085%
86	11.634	11.603	11.680	VV	383	10275	0.21%	0.034%
87	11.703	11.680	11.758	VV	417	8028	0.16%	0.027%
88	11.782	11.758	11.814	PV	1017	13025	0.26%	0.043%
89	11.858	11.814	12.011	VV	463768	4981816	100.00%	16.526%

					rteres			
90	12.061	12.011	12.084	VV	1279	40383	0.81%	0.134%
91	12.099	12.084	12.129	VV	894	16309	0.33%	0.054%
92	12.143	12.129	12.179	VV	454	8105	0.16%	0.027%
93	12.207	12.179	12.278	VV	659	13410	0.27%	0.044%
94	12.329	12.278	12.344	VV	1540	28770	0.58%	0.095%
95	12.375	12.344	12.438	VV	5301	138231	2.77%	0.459%
96	12.463	12.438	12.638	VV	15906	336142	6.75%	1.115%
97	12.658	12.638	12.748	VV	819	32611	0.65%	0.108%
98	12.845	12.748	12.894	VV	1312	61966	1.24%	0.206%
99	12.933	12.894	13.026	VV	4652	101045	2.03%	0.335%
100	13.050	13.026	13.072	VV	338	5744	0.12%	0.019%
101	13.116	13.072	13.181	VV	1105	25489	0.51%	0.085%
102	13.231	13.181	13.261	VV	4379	84245	1.69%	0.279%
103	13.292	13.261	13.433	VV	317859	3926155	78.81%	13.024%
104	13.456	13.433	13.480	VV	1045	19348	0.39%	0.064%
105	13.569	13.480	13.644	VV	1202	76777	1.54%	0.255%
106	13.699	13.644	13.777	VV	2127	69851	1.40%	0.232%
107	13.836	13.777	13.921	VV	764	34293	0.69%	0.114%
108	13.990	13.921	14.016	VV	1146	29528	0.59%	0.098%
109	14.041	14.016	14.128	VV	2085	54197	1.09%	0.180%
110	14.145	14.128	14.188	VV	592	13520	0.27%	0.045%
111	14.204	14.188	14.221	VV	249	3616	0.07%	0.012%
112	14.242	14.221	14.294	VV	217	7055	0.14%	0.023%
113	14.307	14.294	14.326	VV	162	2109	0.04%	0.007%
114	14.339	14.326	14.358	VV	138	1067	0.02%	0.004%
115	14.442	14.358	14.461	PV	803	17057	0.34%	0.057%
116	14.478	14.461	14.506	VV	972	15214	0.31%	0.050%
117	14.553	14.506	14.577	VV	516	13000	0.26%	0.043%
118	14.603	14.577	14.624	VV	1228	16630	0.33%	0.055%
119	14.663	14.624	14.687	VV	738	16323	0.33%	0.054%
120	14.708	14.687	14.728	VV	473	7451	0.15%	0.025%
121	14.757	14.728	14.781	VV	332	8177	0.16%	0.027%
122	14.806	14.781	14.854	VV	567	15197	0.31%	0.050%
123	14.995	14.854	15.053	VV	442	22543	0.45%	0.075%
124	15.142	15.053	15.166	PV	2716	68910	1.38%	0.229%
125	15.191	15.166	15.249	VV	2872	62924	1.26%	0.209%
126	15.275	15.249	15.304	VV	551	13809	0.28%	0.046%
127	15.338	15.304	15.371	VV	321	8715	0.17%	0.029%
128	15.384	15.371	15.398	VV	81	1342	0.03%	0.004%
129	15.525	15.398	15.634	PV	15431	317146	6.37%	1.052%
130	15.661	15.634	15.701	VV	1935	34445	0.69%	0.114%
131	15.730	15.701	15.764	VV	2289	34111	0.68%	0.113%
132	15.797	15.764	15.860	VV	378	7824	0.16%	0.026%
133	15.981	15.860	16.008	PV	272	14137	0.28%	0.047%
134	16.049	16.008	16.088	PV	522	13449	0.27%	0.045%
135	16.162	16.088	16.195	VV	2678	50794	1.02%	0.169%
136	16.229	16.195	16.266	VV	1043	17386	0.35%	0.058%
137	16.299	16.266	16.318	VV	126	2776	0.06%	0.009%
138	16.387	16.318	16.411	VV	193	5700	0.11%	0.019%
139	16.455	16.411	16.471	PV	380	7266	0.15%	0.024%
140	16.541	16.471	16.581	VV	2368	58316	1.17%	0.193%
141	16.643	16.581	16.669	VV	3137	67732	1.36%	0.225%

					rteres			
142	16.724	16.669	16.774	VV	3558	99021	1.99%	0.328%
143	16.842	16.774	16.891	VV	561	34214	0.69%	0.113%
144	16.945	16.891	16.971	PV	546	10310	0.21%	0.034%
145	17.012	16.971	17.043	VV	961	22520	0.45%	0.075%
146	17.110	17.043	17.137	VV	5806	112923	2.27%	0.375%
147	17.191	17.137	17.241	VV	3482	92986	1.87%	0.308%
148	17.298	17.241	17.314	VV	346	8244	0.17%	0.027%
149	17.483	17.314	17.534	VV	3094	109563	2.20%	0.363%
150	17.560	17.534	17.614	VV	8069	126168	2.53%	0.419%
151	17.646	17.614	17.697	VV	1224	37851	0.76%	0.126%
152	17.738	17.697	17.805	VV	1294	44419	0.89%	0.147%
153	17.925	17.805	17.941	PV	2102	70444	1.41%	0.234%
154	17.996	17.941	18.044	VV	6903	157622	3.16%	0.523%
155	18.087	18.044	18.114	VV	7157	147675	2.96%	0.490%
156	18.140	18.114	18.181	VV	2837	83979	1.69%	0.279%
157	18.226	18.181	18.254	VV	1771	60406	1.21%	0.200%
158	18.316	18.254	18.334	VV	4860	100483	2.02%	0.333%
159	18.360	18.334	18.390	VV	7403	154225	3.10%	0.512%
160	18.418	18.390	18.454	VV	12377	209559	4.21%	0.695%
161	18.508	18.454	18.561	VV	2582	105304	2.11%	0.349%
162	18.826	18.561	18.861	VV	7284	267696	5.37%	0.888%
163	18.932	18.861	19.001	VV	8543	278300	5.59%	0.923%
164	19.018	19.001	19.041	VV	2489	45096	0.91%	0.150%
165	19.184	19.041	19.205	VV	9383	325527	6.53%	1.080%
166	19.226	19.205	19.279	VV	8497	252347	5.07%	0.837%
167	19.315	19.279	19.336	VV	5229	139129	2.79%	0.462%
168	19.358	19.336	19.391	VV	4547	133603	2.68%	0.443%
169	19.426	19.391	19.483	VV	6208	272517	5.47%	0.904%
170	19.527	19.483	19.551	VV	4676	165064	3.31%	0.548%
171	19.612	19.551	19.654	VV	6552	301152	6.05%	0.999%
172	19.677	19.654	19.700	VV	9670	184490	3.70%	0.612%
173	19.721	19.700	19.751	VV	7778	175815	3.53%	0.583%
174	19.830	19.751	19.854	VV	8971	354993	7.13%	1.178%
175	19.903	19.854	19.928	VV	6706	271091	5.44%	0.899%
176	19.970	19.928	20.064	VV	10255	623655	12.52%	2.069%
177	20.248	20.064	20.281	VV	10122	1007845	20.23%	3.343%
178	20.350	20.281	20.391	VV	12761	707609	14.20%	2.347%
179	20.410	20.391	20.438	VV	11058	301047	6.04%	0.999%
180	20.512	20.438	20.529	VV	12498	616088	12.37%	2.044%
181	20.578	20.529	20.627	VV	13371	736445	14.78%	2.443%
182	20.705	20.627	20.724	VV	14807	769027	15.44%	2.551%
183	20.745	20.724	20.761	VV	14315	311024	6.24%	1.032%
184	20.802	20.761	20.848	VV	14074	717174	14.40%	2.379%
185	20.868	20.848	20.914	VV	13809	527389	10.59%	1.750%
186	20.936	20.914	20.954	VV	12664	292660	5.87%	0.971%
187	21.017	20.954	21.044	VV	14028	723325	14.52%	2.400%
188	21.073	21.044	21.104	VV	14374	490040	9.84%	1.626%
189	21.128	21.104	21.181	VV	13013	580820	11.66%	1.927%
190	21.200	21.181	21.241	VV	11939	416227	8.35%	1.381%
191	21.290	21.241	21.411	VV	11636	1070827	21.49%	3.552%
192	21.487	21.411	21.550	VV	9916	726242	14.58%	2.409%
193	21.596	21.550	21.677	VV	8306	581768	11.68%	1.930%
194	21.721	21.677	21.761	VV	7104	336753	6.76%	1.117%

					rteres			
195	21.867	21.761	21.995	VV	6669	782720	15.71%	2.597%
196	22.127	21.995	22.341	VV	5010	613309	12.31%	2.035%
				Sum of corrected areas:		30144517		

Aliphatic EPH 100824.M Mon Oct 14 05:22:16 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-7	SDG No.:	P4385
Lab Sample ID:	P4385-14	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 18:33	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	18.8		1	1.92	2.13	mg/kg	FE050626.D
Aliphatic C9-C28	Aliphatic C9-C28	2.84	J	1	1.83	4.25	mg/kg	FE050626.D
Total AliphaticEPH	Total AliphaticEPH	21.6			3.75	6.38	mg/kg	
Total EPH	Total EPH	21.6			3.75	6.38	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-7	SDG No.:	P4385
Lab Sample ID:	P4385-14	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050626.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.84	J	1.83	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.8		1.92	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.9		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.1		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-14	Acq On:	11 Oct 2024 18:33
Client Sample ID:	SP-7	Operator:	YP\AJ
Data file:	FE050626.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.149	6.765	366618	2.566	300	ug/ml
Aliphatic C12-C16	6.766	10.197	1033504	7.122	200	ug/ml
Aliphatic C16-C21	10.198	13.555	1869158	12.944	300	ug/ml
Aliphatic C21-C28	13.556	17.208	2838534	19.968	400	ug/ml
Aliphatic C28-C40	17.209	22.055	36607225	264.688	600	ug/ml
Aliphatic EPH	3.149	22.055	42715039	307.287		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	5534332	35.1		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	4361696	36.87		ug/ml
Aliphatic C9-C28	3.149	17.208	6107814	42.6	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050626.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 18:33
 Operator : YP\AJ
 Sample : P4385-14
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-7

Integration File: autoint1.e
 Quant Time: Oct 14 04:39:25 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.859	5534332	35.104 ug/ml
Spiked Amount	50.000	Recovery	= 70.21%
12) S 1-chlorooctadecane (S...	13.293	4361696	36.872 ug/ml
Spiked Amount	50.000	Recovery	= 73.74%

Target Compounds

(f)=RT Delta > 1/2 Window

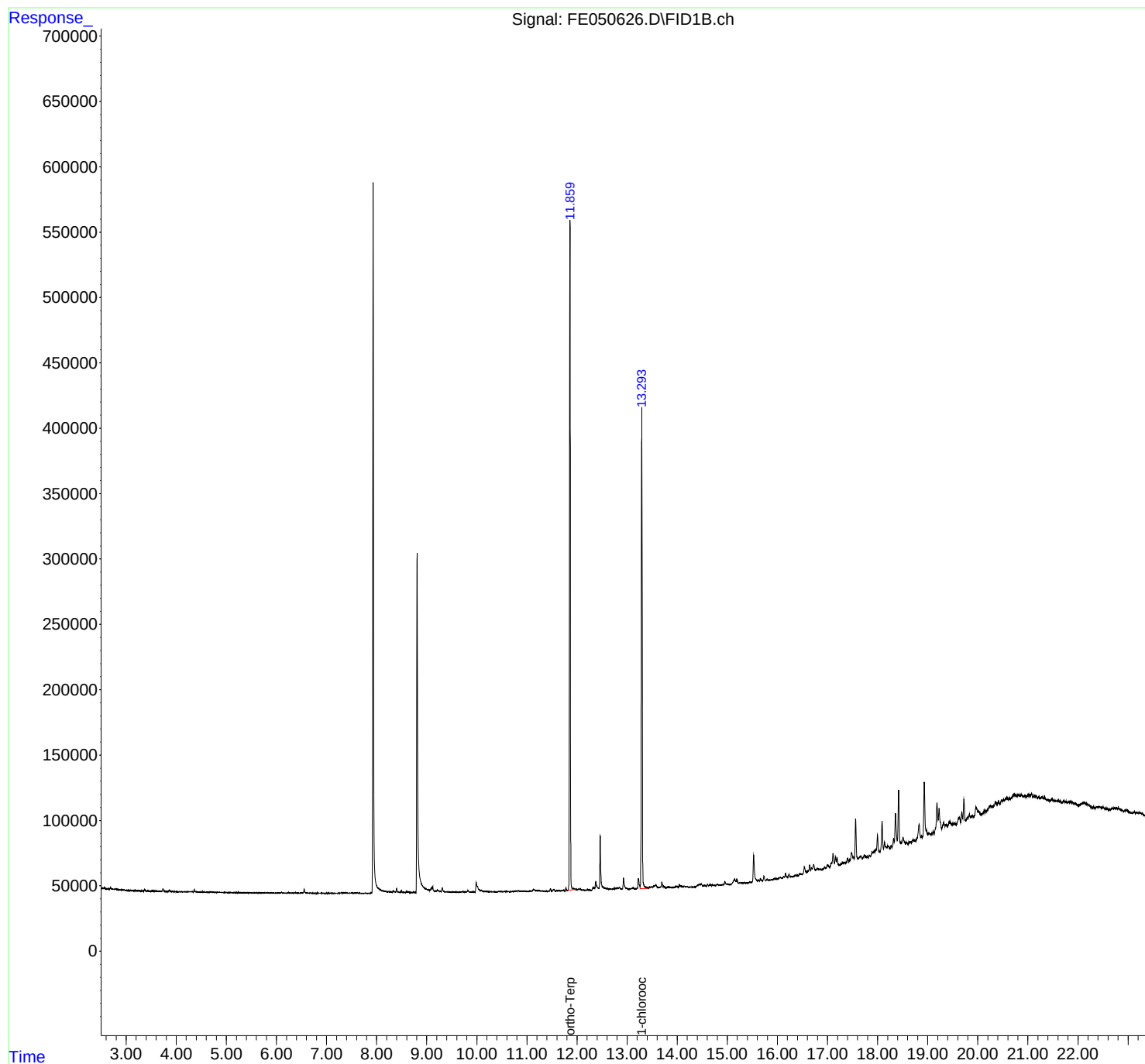
(m)=manual int.

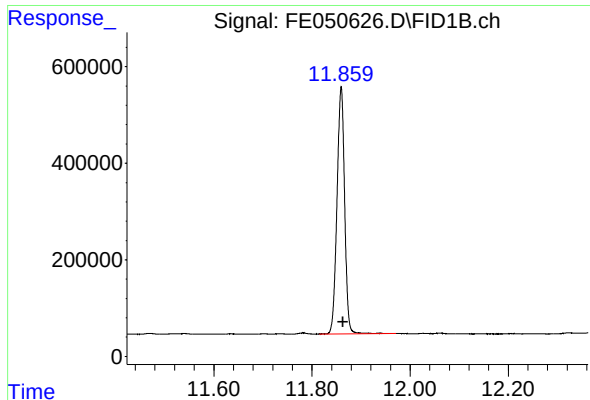
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050626.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 18:33
Operator : YP\AJ
Sample : P4385-14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-7

Integration File: autoint1.e
Quant Time: Oct 14 04:39:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

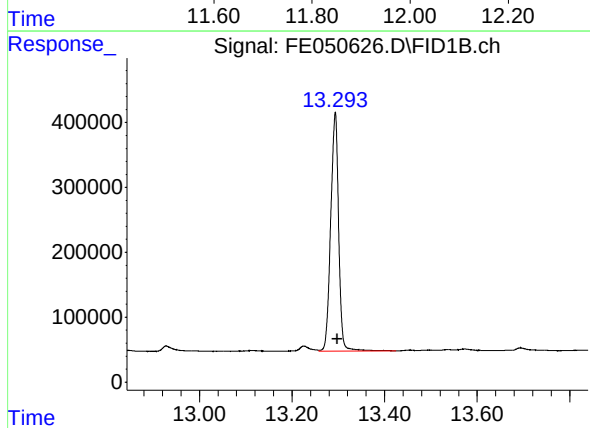




#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 5534332
Conc: 35.10 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-7



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 4361696
Conc: 36.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050626.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 18:33
Sample : P4385-14
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.134	3.105	3.165	BV	27	-281	-0.01%	-0.001%
2	3.169	3.165	3.191	VV	101	800	0.01%	0.002%
3	3.201	3.191	3.209	PV	131	579	0.01%	0.001%
4	3.239	3.209	3.331	PV	170	4935	0.09%	0.009%
5	3.368	3.331	3.431	PV	1107	17365	0.31%	0.033%
6	3.439	3.431	3.502	VV	241	5314	0.10%	0.010%
7	3.514	3.502	3.576	VV	147	4275	0.08%	0.008%
8	3.596	3.576	3.678	VV	154	4522	0.08%	0.008%
9	3.686	3.678	3.715	VV	162	2294	0.04%	0.004%
10	3.734	3.715	3.819	VV	2080	30874	0.56%	0.058%
11	3.855	3.819	3.912	PV	1019	18837	0.34%	0.035%
12	3.932	3.912	4.036	VV	394	7805	0.14%	0.015%
13	4.047	4.036	4.117	PV	90	2162	0.04%	0.004%
14	4.140	4.117	4.168	VV	195	3138	0.06%	0.006%
15	4.175	4.168	4.199	VV	187	2485	0.04%	0.005%
16	4.209	4.199	4.225	VV	137	1731	0.03%	0.003%
17	4.235	4.225	4.246	VV	156	1708	0.03%	0.003%
18	4.293	4.246	4.336	VV	348	11519	0.21%	0.022%
19	4.360	4.336	4.467	VV	1867	31691	0.57%	0.059%
20	4.498	4.467	4.611	VV	260	9587	0.17%	0.018%
21	4.617	4.611	4.638	VV	128	1230	0.02%	0.002%
22	4.683	4.638	4.704	PV	494	8063	0.15%	0.015%
23	4.718	4.704	4.768	VV	340	5805	0.10%	0.011%
24	4.777	4.768	4.808	VV	111	1821	0.03%	0.003%
25	4.826	4.808	4.897	VV	120	4085	0.07%	0.008%
26	4.916	4.897	4.925	VV	111	1537	0.03%	0.003%
27	4.963	4.925	5.072	VV	175	9085	0.16%	0.017%
28	5.087	5.072	5.110	VV	167	2069	0.04%	0.004%
29	5.124	5.110	5.138	VV	117	1096	0.02%	0.002%
30	5.162	5.138	5.225	VV	239	5946	0.11%	0.011%
31	5.231	5.225	5.259	VV	178	2286	0.04%	0.004%
32	5.267	5.259	5.298	VV	111	1400	0.03%	0.003%
33	5.309	5.298	5.321	VV	110	955	0.02%	0.002%
34	5.330	5.321	5.374	VV	124	2305	0.04%	0.004%
35	5.381	5.374	5.405	VV	160	1772	0.03%	0.003%
36	5.413	5.405	5.442	VV	153	1839	0.03%	0.003%

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37	5.481	5.442	5.566	PV	317	10353	0.19%	0.0019%
38	5.578	5.566	5.625	VV	163	2987	0.05%	0.0006%
39	5.638	5.625	5.715	VV	207	5493	0.10%	0.0010%
40	5.758	5.715	5.771	PV	244	4425	0.08%	0.0008%
41	5.775	5.771	5.791	VV	239	2123	0.04%	0.0004%
42	5.802	5.791	5.816	VV	236	3008	0.05%	0.0006%
43	5.831	5.816	5.870	VV	298	5769	0.10%	0.0011%
44	5.898	5.870	5.961	VV	292	9351	0.17%	0.0018%
45	5.996	5.961	6.027	VV	156	4221	0.08%	0.0008%
46	6.049	6.027	6.080	VV	121	2808	0.05%	0.0005%
47	6.106	6.080	6.191	VV	798	11555	0.21%	0.0022%
48	6.247	6.191	6.296	VV	371	13059	0.23%	0.0025%
49	6.316	6.296	6.351	VV	202	4824	0.09%	0.0009%
50	6.379	6.351	6.415	VV	431	9082	0.16%	0.0017%
51	6.434	6.415	6.474	VV	256	6431	0.12%	0.0012%
52	6.484	6.474	6.512	VV	218	3279	0.06%	0.0006%
53	6.555	6.512	6.609	VV	3122	44000	0.79%	0.0083%
54	6.625	6.609	6.654	VV	244	4408	0.08%	0.0008%
55	6.665	6.654	6.711	VV	223	4010	0.07%	0.0008%
56	6.720	6.711	6.741	VV	144	990	0.02%	0.0002%
57	6.752	6.741	6.795	PV	80	1527	0.03%	0.0003%
58	6.819	6.795	6.833	VV	107	1534	0.03%	0.0003%
59	6.844	6.833	6.865	VV	106	1711	0.03%	0.0003%
60	6.870	6.865	6.890	VV	101	1323	0.02%	0.0002%
61	6.903	6.890	6.995	VV	146	4511	0.08%	0.0008%
62	6.999	6.995	7.038	VV	131	1326	0.02%	0.0002%
63	7.045	7.038	7.078	VV	95	1070	0.02%	0.0002%
64	7.088	7.078	7.100	PV	64	311	0.01%	0.0001%
65	7.111	7.100	7.143	VV	78	848	0.02%	0.0002%
66	7.239	7.143	7.273	VV	165	6571	0.12%	0.0012%
67	7.299	7.273	7.319	VV	618	8127	0.15%	0.0015%
68	7.385	7.319	7.436	VV	392	15574	0.28%	0.0029%
69	7.468	7.436	7.481	VV	151	2978	0.05%	0.0006%
70	7.507	7.481	7.531	VV	283	5341	0.10%	0.0010%
71	7.563	7.531	7.579	VV	297	5099	0.09%	0.0010%
72	7.612	7.579	7.775	VV	336	10733	0.19%	0.0020%
73	7.783	7.775	7.794	PV	52	591	0.01%	0.0001%
74	7.805	7.794	7.828	PV	69	643	0.01%	0.0001%
75	7.835	7.828	7.843	PV	35	156	0.00%	0.0000%
76	7.893	7.843	7.903	VV	323	4725	0.08%	0.0009%
77	8.174	8.163	8.238	VV	1363	49405	0.89%	0.0093%
78	8.245	8.238	8.265	VV	970	14499	0.26%	0.0027%
79	8.280	8.265	8.298	VV	1066	17109	0.31%	0.0032%
80	8.335	8.298	8.368	VV	1551	40507	0.73%	0.0076%
81	8.399	8.368	8.448	VV	3344	59199	1.06%	0.0111%
82	8.457	8.448	8.471	VV	587	7423	0.13%	0.0014%
83	8.492	8.471	8.562	VV	1587	36524	0.66%	0.0069%
84	8.599	8.562	8.718	VV	1108	40549	0.73%	0.0076%
85	8.741	8.718	8.776	VV	760	10421	0.19%	0.0020%
86	9.057	9.048	9.071	VV	2083	27463	0.49%	0.0052%
87	9.100	9.071	9.110	VV	4182	71777	1.29%	0.0135%
88	9.121	9.110	9.155	VV	4507	66164	1.19%	0.0124%
89	9.166	9.155	9.191	VV	1338	25841	0.46%	0.0049%

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90	9.211	9.191	9.281	VV	2032	67865	1.22%	0.127%
91	9.312	9.281	9.356	VV	3557	66548	1.20%	0.125%
92	9.364	9.356	9.391	VV	620	11562	0.21%	0.022%
93	9.409	9.391	9.468	VV	717	19047	0.34%	0.036%
94	9.476	9.468	9.501	VV	325	5854	0.11%	0.011%
95	9.513	9.501	9.538	VV	316	6140	0.11%	0.012%
96	9.562	9.538	9.595	VV	331	7694	0.14%	0.014%
97	9.605	9.595	9.645	VV	173	3810	0.07%	0.007%
98	9.715	9.645	9.754	VV	473	20012	0.36%	0.038%
99	9.779	9.754	9.797	VV	448	8641	0.16%	0.016%
100	9.821	9.797	9.898	VV	1350	24104	0.43%	0.045%
101	9.904	9.898	9.917	VV	105	973	0.02%	0.002%
102	9.934	9.917	9.955	VV	356	3627	0.07%	0.007%
103	9.990	9.955	10.077	VV	7362	203082	3.65%	0.381%
104	10.095	10.077	10.184	VV	1393	44492	0.80%	0.084%
105	10.207	10.184	10.247	VV	565	13220	0.24%	0.025%
106	10.271	10.247	10.283	VV	295	4746	0.09%	0.009%
107	10.288	10.283	10.318	VV	185	2742	0.05%	0.005%
108	10.340	10.318	10.368	VV	256	3446	0.06%	0.006%
109	10.382	10.368	10.408	VV	139	2368	0.04%	0.004%
110	10.435	10.408	10.460	VV	250	5989	0.11%	0.011%
111	10.484	10.460	10.504	VV	326	5974	0.11%	0.011%
112	10.561	10.504	10.578	VV	337	9957	0.18%	0.019%
113	10.583	10.578	10.616	VV	318	5290	0.10%	0.010%
114	10.628	10.616	10.665	VV	234	3070	0.06%	0.006%
115	10.723	10.665	10.741	PV	183	5375	0.10%	0.010%
116	10.761	10.741	10.781	VV	537	8444	0.15%	0.016%
117	10.803	10.781	10.820	VV	671	10453	0.19%	0.020%
118	10.836	10.820	10.875	VV	971	16061	0.29%	0.030%
119	10.881	10.875	10.889	VV	266	2272	0.04%	0.004%
120	10.906	10.889	10.918	VV	499	6688	0.12%	0.013%
121	10.935	10.918	10.982	VV	429	11858	0.21%	0.022%
122	10.991	10.982	11.009	VV	185	2590	0.05%	0.005%
123	11.056	11.009	11.078	VV	599	12513	0.23%	0.023%
124	11.089	11.078	11.100	VV	439	4779	0.09%	0.009%
125	11.131	11.100	11.195	VV	1530	53292	0.96%	0.100%
126	11.225	11.195	11.301	VV	792	34099	0.61%	0.064%
127	11.309	11.301	11.391	VV	332	8812	0.16%	0.017%
128	11.425	11.391	11.443	PV	240	4119	0.07%	0.008%
129	11.469	11.443	11.495	VV	1850	23676	0.43%	0.044%
130	11.538	11.495	11.569	VV	1473	31972	0.58%	0.060%
131	11.595	11.569	11.608	VV	188	3270	0.06%	0.006%
132	11.634	11.608	11.671	VV	623	11449	0.21%	0.021%
133	11.702	11.671	11.718	VV	617	8987	0.16%	0.017%
134	11.735	11.718	11.756	VV	906	10498	0.19%	0.020%
135	11.781	11.756	11.805	VV	2515	31088	0.56%	0.058%
136	11.859	11.805	11.926	VV	507811	5559173	100.00%	10.436%
137	11.938	11.926	12.011	VV	1701	58306	1.05%	0.109%
138	12.028	12.011	12.043	VV	1494	20024	0.36%	0.038%
139	12.061	12.043	12.083	VV	1749	26909	0.48%	0.051%
140	12.095	12.083	12.127	VV	636	11318	0.20%	0.021%
141	12.144	12.127	12.176	VV	314	6242	0.11%	0.012%

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142	12.205	12.176	12.228	VV	780	11562	0.21%	0.022%
143	12.246	12.228	12.281	VV	375	6775	0.12%	0.013%
144	12.323	12.281	12.347	PV	2235	44229	0.80%	0.083%
145	12.374	12.347	12.441	VV	6547	159070	2.86%	0.299%
146	12.463	12.441	12.641	VV	41023	626711	11.27%	1.176%
147	12.657	12.641	12.688	VV	836	16837	0.30%	0.032%
148	12.701	12.688	12.716	VV	477	6876	0.12%	0.013%
149	12.742	12.716	12.762	VV	1085	18530	0.33%	0.035%
150	12.809	12.762	12.825	VV	1202	35688	0.64%	0.067%
151	12.846	12.825	12.905	VV	1715	35306	0.64%	0.066%
152	12.929	12.905	12.978	VV	8507	139371	2.51%	0.262%
153	12.987	12.978	13.038	VV	938	13477	0.24%	0.025%
154	13.051	13.038	13.064	VV	264	2594	0.05%	0.005%
155	13.115	13.064	13.150	VV	1130	26323	0.47%	0.049%
156	13.167	13.150	13.188	VV	206	3105	0.06%	0.006%
157	13.226	13.188	13.258	VV	8012	126436	2.27%	0.237%
158	13.293	13.258	13.385	VV	373086	4372091	78.65%	8.207%
159	13.397	13.385	13.426	VV	965	18316	0.33%	0.034%
160	13.454	13.426	13.471	VV	1462	25120	0.45%	0.047%
161	13.495	13.471	13.517	VV	1426	33244	0.60%	0.062%
162	13.536	13.517	13.555	VV	2050	37692	0.68%	0.071%
163	13.573	13.555	13.626	VV	2958	67333	1.21%	0.126%
164	13.637	13.626	13.650	VV	648	8017	0.14%	0.015%
165	13.694	13.650	13.778	VV	4624	110512	1.99%	0.207%
166	13.832	13.778	13.868	VV	916	28730	0.52%	0.054%
167	13.879	13.868	13.888	VV	248	2682	0.05%	0.005%
168	13.901	13.888	13.915	VV	361	3936	0.07%	0.007%
169	13.936	13.915	13.950	VV	491	8040	0.14%	0.015%
170	13.991	13.950	14.021	VV	1362	33690	0.61%	0.063%
171	14.041	14.021	14.058	VV	2376	32422	0.58%	0.061%
172	14.070	14.058	14.088	VV	1615	21589	0.39%	0.041%
173	14.094	14.088	14.121	VV	1110	16146	0.29%	0.030%
174	14.142	14.121	14.178	VV	1112	24935	0.45%	0.047%
175	14.196	14.178	14.228	VV	668	13880	0.25%	0.026%
176	14.258	14.228	14.281	VV	273	7286	0.13%	0.014%
177	14.294	14.281	14.322	VV	256	3814	0.07%	0.007%
178	14.440	14.322	14.465	PV	2141	74798	1.35%	0.140%
179	14.479	14.465	14.525	VV	2182	42442	0.76%	0.080%
180	14.550	14.525	14.581	VV	976	17413	0.31%	0.033%
181	14.603	14.581	14.626	VV	1640	21756	0.39%	0.041%
182	14.664	14.626	14.682	VV	1165	23299	0.42%	0.044%
183	14.703	14.682	14.728	VV	914	16552	0.30%	0.031%
184	14.755	14.728	14.778	VV	491	7777	0.14%	0.015%
185	14.800	14.778	14.830	VV	938	17890	0.32%	0.034%
186	14.850	14.830	14.881	VV	320	7434	0.13%	0.014%
187	14.896	14.881	14.908	VV	197	2330	0.04%	0.004%
188	14.951	14.908	14.990	VV	2709	49412	0.89%	0.093%
189	14.998	14.990	15.049	VV	642	9018	0.16%	0.017%
190	15.144	15.049	15.171	PV	3925	121655	2.19%	0.228%
191	15.190	15.171	15.227	VV	3825	69141	1.24%	0.130%
192	15.242	15.227	15.253	VV	706	10023	0.18%	0.019%
193	15.269	15.253	15.302	VV	1018	18972	0.34%	0.036%
194	15.332	15.302	15.351	VV	435	9578	0.17%	0.018%

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195	15.369	15.351	15.382	VV	194	2148	0.04%	0.004%
196	15.398	15.382	15.408	VV	136	1365	0.02%	0.003%
197	15.464	15.408	15.481	PV	407	10665	0.19%	0.020%
198	15.524	15.481	15.605	VV	20908	389708	7.01%	0.732%
199	15.620	15.605	15.641	VV	1399	21876	0.39%	0.041%
200	15.662	15.641	15.703	VV	2234	42793	0.77%	0.080%
201	15.730	15.703	15.765	VV	3993	61252	1.10%	0.115%
202	15.790	15.765	15.833	PV	1286	22141	0.40%	0.042%
203	15.851	15.833	15.864	VV	239	3418	0.06%	0.006%
204	15.975	15.864	16.011	PV	567	31921	0.57%	0.060%
205	16.047	16.011	16.092	VV	921	24942	0.45%	0.047%
206	16.126	16.092	16.145	VV	1308	23198	0.42%	0.044%
207	16.161	16.145	16.195	VV	3687	49712	0.89%	0.093%
208	16.229	16.195	16.258	VV	2567	43406	0.78%	0.081%
209	16.309	16.258	16.321	VV	313	10694	0.19%	0.020%
210	16.377	16.321	16.415	PV	664	20541	0.37%	0.039%
211	16.469	16.415	16.498	PV	872	30451	0.55%	0.057%
212	16.538	16.498	16.585	VV	5845	128727	2.32%	0.242%
213	16.644	16.585	16.663	VV	6113	115688	2.08%	0.217%
214	16.681	16.663	16.696	VV	3556	58288	1.05%	0.109%
215	16.722	16.696	16.765	VV	5733	133196	2.40%	0.250%
216	16.797	16.765	16.835	VV	1865	63925	1.15%	0.120%
217	16.850	16.835	16.891	VV	1320	29590	0.53%	0.056%
218	16.950	16.891	16.973	VV	1617	44609	0.80%	0.084%
219	16.998	16.973	17.043	VV	3235	79693	1.43%	0.150%
220	17.110	17.043	17.137	VV	10642	260099	4.68%	0.488%
221	17.158	17.137	17.175	VV	7989	124122	2.23%	0.233%
222	17.190	17.175	17.218	VV	6963	107864	1.94%	0.202%
223	17.276	17.218	17.283	VV	1603	44597	0.80%	0.084%
224	17.300	17.283	17.311	VV	1958	28198	0.51%	0.053%
225	17.348	17.311	17.366	VV	1847	51698	0.93%	0.097%
226	17.401	17.366	17.424	VV	4517	92414	1.66%	0.173%
227	17.446	17.424	17.454	VV	3071	45712	0.82%	0.086%
228	17.479	17.454	17.533	VV	8387	245029	4.41%	0.460%
229	17.560	17.533	17.612	VV	33201	540514	9.72%	1.015%
230	17.658	17.612	17.692	VV	3768	146014	2.63%	0.274%
231	17.733	17.692	17.755	VV	4089	101702	1.83%	0.191%
232	17.769	17.755	17.808	VV	2737	74706	1.34%	0.140%
233	17.837	17.808	17.859	VV	2876	69528	1.25%	0.131%
234	17.889	17.859	17.905	VV	5234	105106	1.89%	0.197%
235	17.924	17.905	17.943	VV	5291	108784	1.96%	0.204%
236	17.997	17.943	18.051	VV	17196	478446	8.61%	0.898%
237	18.088	18.051	18.116	VV	26623	487112	8.76%	0.914%
238	18.138	18.116	18.178	VV	10533	279977	5.04%	0.526%
239	18.200	18.178	18.211	VV	6859	127737	2.30%	0.240%
240	18.218	18.211	18.248	VV	6411	121437	2.18%	0.228%
241	18.271	18.248	18.287	VV	6351	129758	2.33%	0.244%
242	18.319	18.287	18.332	VV	11666	223414	4.02%	0.419%
243	18.356	18.332	18.391	VV	30453	628312	11.30%	1.179%
244	18.419	18.391	18.457	VV	47397	838187	15.08%	1.573%
245	18.508	18.457	18.557	VV	10686	465536	8.37%	0.874%
246	18.571	18.557	18.611	VV	6209	179127	3.22%	0.336%

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247	18.625	18.611	18.637	VV	6087	89890	1.62%	0.169%
248	18.655	18.637	18.676	VV	6206	136644	2.46%	0.257%
249	18.709	18.676	18.757	VV	7180	304198	5.47%	0.571%
250	18.827	18.757	18.871	VV	18171	703992	12.66%	1.322%
251	18.875	18.871	18.891	VV	8281	95848	1.72%	0.180%
252	18.931	18.891	19.005	VV	49052	1242068	22.34%	2.332%
253	19.028	19.005	19.053	VV	9497	255185	4.59%	0.479%
254	19.111	19.053	19.131	VV	9643	413566	7.44%	0.776%
255	19.184	19.131	19.207	VV	31200	817645	14.71%	1.535%
256	19.227	19.207	19.275	VV	26695	746003	13.42%	1.400%
257	19.320	19.275	19.344	VV	14387	535727	9.64%	1.006%
258	19.359	19.344	19.400	VV	13036	409683	7.37%	0.769%
259	19.439	19.400	19.483	VV	14517	656721	11.81%	1.233%
260	19.496	19.483	19.503	VV	11988	140131	2.52%	0.263%
261	19.524	19.503	19.535	VV	12670	227961	4.10%	0.428%
262	19.554	19.535	19.570	VV	12183	246379	4.43%	0.463%
263	19.612	19.570	19.621	VV	16049	416539	7.49%	0.782%
264	19.634	19.621	19.657	VV	15956	306562	5.51%	0.575%
265	19.680	19.657	19.698	VV	19741	408624	7.35%	0.767%
266	19.722	19.698	19.753	VV	29205	649984	11.69%	1.220%
267	19.829	19.753	19.863	VV	16748	946916	17.03%	1.778%
268	19.892	19.863	19.922	VV	15250	515467	9.27%	0.968%
269	19.961	19.922	20.002	VV	21181	863806	15.54%	1.622%
270	20.018	20.002	20.075	VV	17867	694922	12.50%	1.305%
271	20.135	20.075	20.146	VV	16516	659804	11.87%	1.239%
272	20.252	20.146	20.300	VV	20024	1641435	29.53%	3.081%
273	20.350	20.300	20.379	VV	21671	945596	17.01%	1.775%
274	20.412	20.379	20.444	VV	21444	783212	14.09%	1.470%
275	20.469	20.444	20.484	VV	21994	506372	9.11%	0.951%
276	20.513	20.484	20.526	VV	22546	534386	9.61%	1.003%
277	20.559	20.526	20.568	VV	22572	553148	9.95%	1.038%
278	20.583	20.568	20.608	VV	22918	532595	9.58%	1.000%
279	20.619	20.608	20.632	VV	21804	318634	5.73%	0.598%
280	20.709	20.632	20.723	VV	23917	1214123	21.84%	2.279%
281	20.738	20.723	20.784	VV	23685	837478	15.06%	1.572%
282	20.811	20.784	20.825	VV	23295	561532	10.10%	1.054%
283	20.835	20.825	20.848	VV	22821	307210	5.53%	0.577%
284	20.866	20.848	20.911	VV	22479	819317	14.74%	1.538%
285	20.953	20.911	20.985	VV	21066	914731	16.45%	1.717%
286	21.039	20.985	21.049	VV	21043	804235	14.47%	1.510%
287	21.074	21.049	21.105	VV	21397	675896	12.16%	1.269%
288	21.144	21.105	21.194	VV	19195	1006818	18.11%	1.890%
289	21.214	21.194	21.225	VV	17862	317812	5.72%	0.597%
290	21.231	21.225	21.246	VV	17147	219952	3.96%	0.413%
291	21.286	21.246	21.305	VV	17251	588587	10.59%	1.105%
292	21.326	21.305	21.431	VV	16773	1110302	19.97%	2.084%
293	21.482	21.431	21.575	VV	14301	1092271	19.65%	2.050%
294	21.594	21.575	21.683	VV	11997	700207	12.60%	1.314%
295	21.723	21.683	21.755	VV	10328	419550	7.55%	0.788%
296	21.762	21.755	21.802	VV	9481	254357	4.58%	0.477%
297	21.821	21.802	21.843	VV	8797	207017	3.72%	0.389%
298	21.856	21.843	21.875	VV	8542	156699	2.82%	0.294%
299	21.882	21.875	21.935	VV	7934	257102	4.62%	0.483%

					rteres				
300	21.953	21.935	22.005	VV	6281	229341	4.13%	0.431%	
301	22.100	22.005	22.148	VV	5750	418658	7.53%	0.786%	
302	22.157	22.148	22.287	VV	4572	205654	3.70%	0.386%	
					Sum of corrected areas:	53270322			

Aliphatic EPH 100824.M Mon Oct 14 05:23:47 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-8	SDG No.:	P4385
Lab Sample ID:	P4385-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 19:03	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	14.8		1	1.91	2.12	mg/kg	FE050627.D
Aliphatic C9-C28	Aliphatic C9-C28	2.42	J	1	1.82	4.24	mg/kg	FE050627.D
Total AliphaticEPH	Total AliphaticEPH	17.2			3.73	6.36	mg/kg	
Total EPH	Total EPH	17.2			3.73	6.36	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-8	SDG No.:	P4385
Lab Sample ID:	P4385-16	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050627.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.42	J	1.82	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.8		1.91	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.8		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.9		40 - 140	68%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-16	Acq On:	11 Oct 2024 19:03
Client Sample ID:	SP-8	Operator:	YP\AJ
Data file:	FE050627.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.149	6.765	336259	2.353	300	ug/ml
Aliphatic C12-C16	6.766	10.197	963389	6.639	200	ug/ml
Aliphatic C16-C21	10.198	13.555	1731454	11.991	300	ug/ml
Aliphatic C21-C28	13.556	17.208	2222112	15.632	400	ug/ml
Aliphatic C28-C40	17.209	22.055	28880071	208.817	600	ug/ml
Aliphatic EPH	3.149	22.055	34133285	245.431		ug/ml
ortho-Terphenyl (SURR)	11.860	11.860	5340080	33.87		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	4230197	35.76		ug/ml
Aliphatic C9-C28	3.149	17.208	5253214	36.615	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050627.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 19:03
 Operator : YP\AJ
 Sample : P4385-16
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-8

Integration File: autoint1.e
 Quant Time: Oct 14 04:39:34 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.860	5340080	33.872 ug/ml
Spiked Amount	50.000	Recovery	= 67.74%
12) S 1-chlorooctadecane (S...	13.293	4230197	35.760 ug/ml
Spiked Amount	50.000	Recovery	= 71.52%

Target Compounds

(f)=RT Delta > 1/2 Window

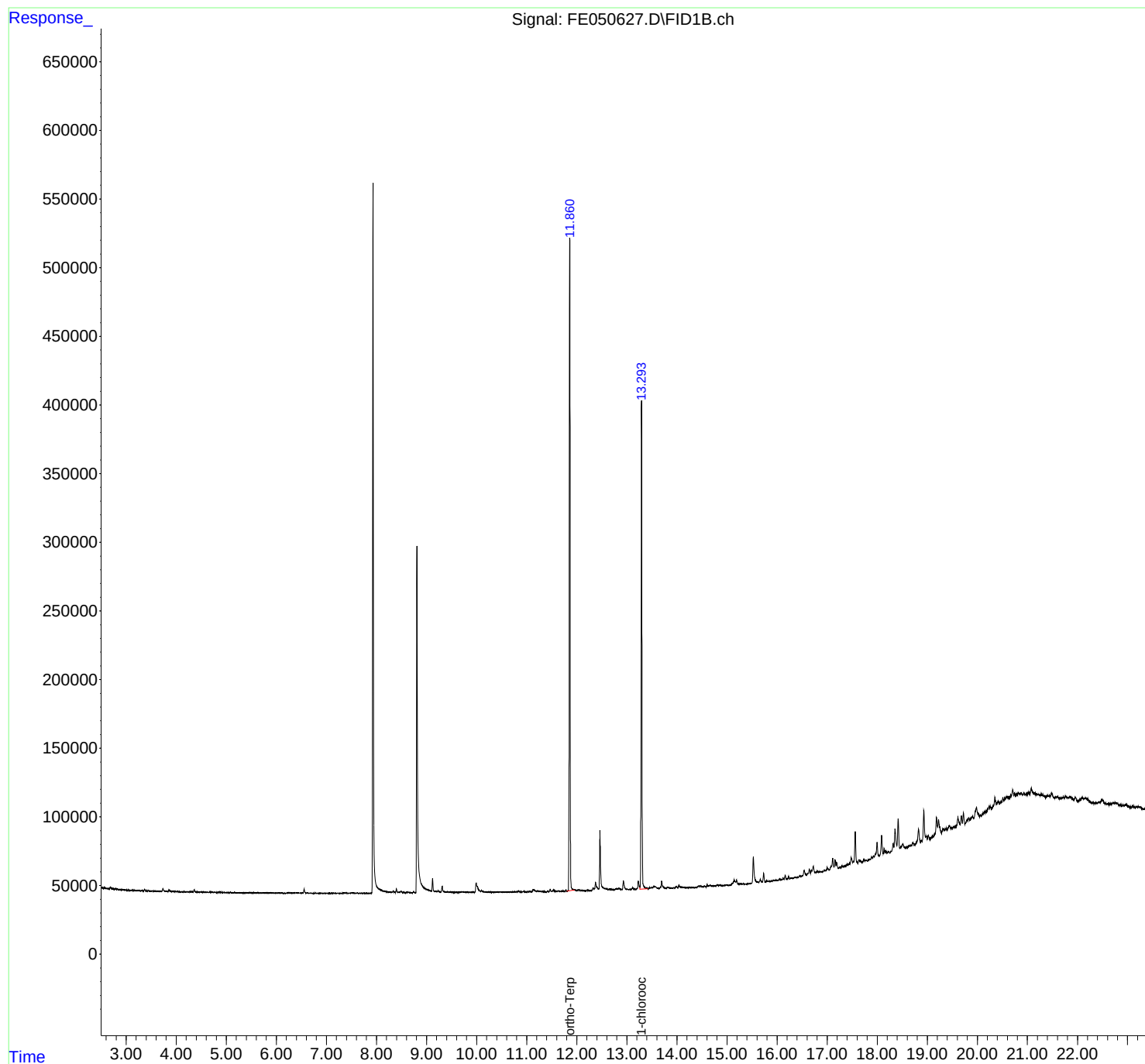
(m)=manual int.

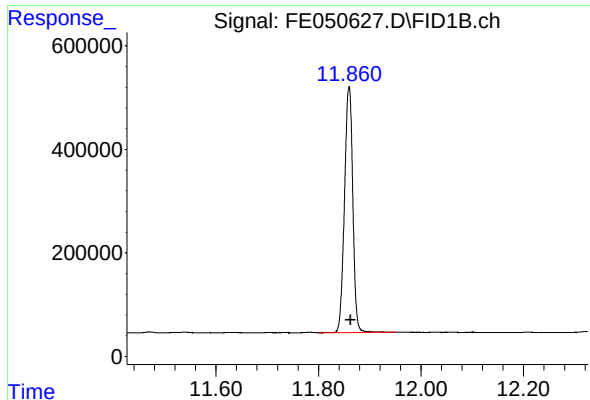
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050627.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 19:03
Operator : YP\AJ
Sample : P4385-16
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-8

Integration File: autoint1.e
Quant Time: Oct 14 04:39:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

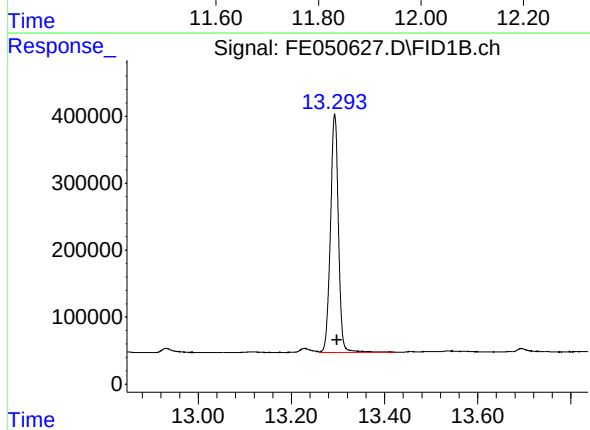




#9 ortho-Terphenyl (SURR)

R.T.: 11.860 min
Delta R.T.: -0.004 min
Response: 5340080
Conc: 33.87 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-8



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 4230197
Conc: 35.76 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050627.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 19:03
 Sample : P4385-16
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.124	3.104	3.143	BV	142	1153	0.02%	0.003%
2	3.151	3.143	3.179	PV	160	2063	0.04%	0.005%
3	3.188	3.179	3.212	VV	133	1944	0.04%	0.004%
4	3.222	3.212	3.288	VV	120	4321	0.08%	0.010%
5	3.297	3.288	3.345	PV	82	1367	0.03%	0.003%
6	3.367	3.345	3.423	PV	1093	14604	0.27%	0.033%
7	3.441	3.423	3.577	VV	203	4992	0.09%	0.011%
8	3.588	3.577	3.637	PV	122	1666	0.03%	0.004%
9	3.649	3.637	3.666	VV	65	840	0.02%	0.002%
10	3.686	3.666	3.714	VV	147	2294	0.04%	0.005%
11	3.734	3.714	3.827	VV	2084	32423	0.60%	0.073%
12	3.854	3.827	3.913	VV	1101	21196	0.39%	0.048%
13	3.931	3.913	4.068	VV	523	12222	0.23%	0.027%
14	4.077	4.068	4.102	VV	60	818	0.02%	0.002%
15	4.164	4.102	4.283	PV	183	13121	0.24%	0.030%
16	4.299	4.283	4.329	VV	249	4700	0.09%	0.011%
17	4.360	4.329	4.412	VV	1833	26319	0.49%	0.059%
18	4.420	4.412	4.431	VV	150	1615	0.03%	0.004%
19	4.434	4.431	4.456	VV	237	1617	0.03%	0.004%
20	4.498	4.456	4.604	VV	195	7333	0.14%	0.016%
21	4.618	4.604	4.645	VV	152	1756	0.03%	0.004%
22	4.675	4.645	4.718	PV	398	6444	0.12%	0.014%
23	4.725	4.718	4.741	VV	113	1096	0.02%	0.002%
24	4.751	4.741	4.762	VV	85	884	0.02%	0.002%
25	4.781	4.762	4.794	VV	117	1334	0.02%	0.003%
26	4.812	4.794	4.828	VV	119	1372	0.03%	0.003%
27	4.860	4.828	4.879	VV	157	3076	0.06%	0.007%
28	4.898	4.879	4.978	VV	168	6078	0.11%	0.014%
29	4.986	4.978	5.032	VV	108	2576	0.05%	0.006%
30	5.038	5.032	5.061	VV	144	1054	0.02%	0.002%
31	5.090	5.061	5.139	VV	143	3575	0.07%	0.008%
32	5.160	5.139	5.228	VV	194	6271	0.12%	0.014%
33	5.244	5.228	5.304	VV	216	5001	0.09%	0.011%
34	5.311	5.304	5.325	VV	115	1026	0.02%	0.002%
35	5.334	5.325	5.345	VV	110	1107	0.02%	0.002%
36	5.354	5.345	5.372	VV	114	1172	0.02%	0.003%

					rteres			
37	5.381	5.372	5.388	PV	133	583	0.01%	0.001%
38	5.404	5.388	5.457	VV	138	3463	0.06%	0.008%
39	5.475	5.457	5.518	VV	189	4980	0.09%	0.011%
40	5.534	5.518	5.543	VV	131	1289	0.02%	0.003%
41	5.575	5.543	5.601	VV	121	2157	0.04%	0.005%
42	5.605	5.601	5.623	VV	91	572	0.01%	0.001%
43	5.668	5.623	5.718	VV	131	3323	0.06%	0.007%
44	5.800	5.718	5.818	PV	292	8158	0.15%	0.018%
45	5.827	5.818	5.878	VV	259	5975	0.11%	0.013%
46	5.898	5.878	5.935	VV	271	5614	0.10%	0.013%
47	5.945	5.935	5.960	VV	121	1590	0.03%	0.004%
48	6.006	5.960	6.024	VV	178	4736	0.09%	0.011%
49	6.041	6.024	6.060	VV	141	2090	0.04%	0.005%
50	6.105	6.060	6.164	VV	173	4808	0.09%	0.011%
51	6.169	6.164	6.193	PV	60	500	0.01%	0.001%
52	6.239	6.193	6.269	VV	327	8928	0.17%	0.020%
53	6.291	6.269	6.307	VV	194	3819	0.07%	0.009%
54	6.317	6.307	6.350	VV	226	4067	0.08%	0.009%
55	6.380	6.350	6.421	VV	416	9725	0.18%	0.022%
56	6.436	6.421	6.461	VV	327	4813	0.09%	0.011%
57	6.478	6.461	6.488	VV	182	2352	0.04%	0.005%
58	6.497	6.488	6.509	VV	175	1740	0.03%	0.004%
59	6.555	6.509	6.611	VV	3074	42661	0.79%	0.096%
60	6.624	6.611	6.651	VV	211	3139	0.06%	0.007%
61	6.669	6.651	6.791	VV	178	5900	0.11%	0.013%
62	6.817	6.791	6.838	VV	128	2297	0.04%	0.005%
63	6.841	6.838	6.898	VV	152	2173	0.04%	0.005%
64	6.910	6.898	6.976	VV	92	2823	0.05%	0.006%
65	6.998	6.976	7.031	VV	76	1508	0.03%	0.003%
66	7.043	7.031	7.086	VV	75	1075	0.02%	0.002%
67	7.161	7.086	7.204	PV	114	3738	0.07%	0.008%
68	7.216	7.204	7.259	VV	141	3491	0.06%	0.008%
69	7.265	7.259	7.272	VV	101	648	0.01%	0.001%
70	7.294	7.272	7.320	VV	164	3595	0.07%	0.008%
71	7.344	7.320	7.357	VV	255	4264	0.08%	0.010%
72	7.385	7.357	7.430	VV	313	9506	0.18%	0.021%
73	7.454	7.430	7.488	VV	175	4729	0.09%	0.011%
74	7.509	7.488	7.544	VV	240	7054	0.13%	0.016%
75	7.557	7.544	7.585	VV	268	3725	0.07%	0.008%
76	7.615	7.585	7.641	VV	317	6091	0.11%	0.014%
77	7.647	7.641	7.672	VV	197	2539	0.05%	0.006%
78	7.681	7.672	7.744	VV	195	3559	0.07%	0.008%
79	7.755	7.744	7.781	PV	102	1201	0.02%	0.003%
80	7.791	7.781	7.821	VV	90	1602	0.03%	0.004%
81	7.857	7.821	7.868	VV	138	2803	0.05%	0.006%
82	8.232	8.228	8.263	VV	988	19100	0.35%	0.043%
83	8.278	8.263	8.301	VV	1009	18893	0.35%	0.043%
84	8.334	8.301	8.368	VV	1753	36924	0.68%	0.083%
85	8.399	8.368	8.448	VV	3174	56552	1.05%	0.127%
86	8.459	8.448	8.465	VV	644	6085	0.11%	0.014%
87	8.492	8.465	8.523	VV	1612	30068	0.56%	0.068%
88	8.538	8.523	8.581	VV	663	15292	0.28%	0.034%
89	8.599	8.581	8.611	VV	490	7603	0.14%	0.017%

					rteres			
90	8.626	8.611	8.714	VV	649	23411	0.43%	0.053%
91	8.743	8.714	8.781	VV	1410	20510	0.38%	0.046%
92	9.121	9.098	9.201	VV	10512	168139	3.11%	0.378%
93	9.230	9.201	9.280	VV	1415	49460	0.91%	0.111%
94	9.312	9.280	9.389	VV	4771	91845	1.70%	0.207%
95	9.417	9.389	9.454	VV	765	20608	0.38%	0.046%
96	9.468	9.454	9.477	VV	376	4834	0.09%	0.011%
97	9.486	9.477	9.491	VV	396	3248	0.06%	0.007%
98	9.500	9.491	9.558	VV	432	11703	0.22%	0.026%
99	9.564	9.558	9.574	VV	237	2327	0.04%	0.005%
100	9.608	9.574	9.652	VV	293	10385	0.19%	0.023%
101	9.712	9.652	9.767	VV	559	26352	0.49%	0.059%
102	9.778	9.767	9.803	VV	402	6784	0.13%	0.015%
103	9.822	9.803	9.899	VV	344	14623	0.27%	0.033%
104	9.933	9.899	9.956	VV	387	6587	0.12%	0.015%
105	9.991	9.956	10.079	VV	6984	198444	3.67%	0.446%
106	10.096	10.079	10.184	VV	1382	42699	0.79%	0.096%
107	10.191	10.184	10.198	VV	326	2492	0.05%	0.006%
108	10.207	10.198	10.254	VV	345	8940	0.17%	0.020%
109	10.277	10.254	10.303	VV	261	5505	0.10%	0.012%
110	10.331	10.303	10.351	VV	196	3950	0.07%	0.009%
111	10.369	10.351	10.408	VV	136	2899	0.05%	0.007%
112	10.459	10.408	10.467	PV	286	7267	0.13%	0.016%
113	10.478	10.467	10.518	VV	322	6587	0.12%	0.015%
114	10.542	10.518	10.556	VV	231	4116	0.08%	0.009%
115	10.586	10.556	10.605	VV	272	5528	0.10%	0.012%
116	10.625	10.605	10.674	VV	193	3933	0.07%	0.009%
117	10.719	10.674	10.738	VV	205	5106	0.09%	0.011%
118	10.762	10.738	10.786	VV	420	7256	0.13%	0.016%
119	10.805	10.786	10.817	VV	440	5718	0.11%	0.013%
120	10.836	10.817	10.875	VV	883	14807	0.27%	0.033%
121	10.905	10.875	10.923	VV	412	7154	0.13%	0.016%
122	10.944	10.923	10.995	VV	395	9850	0.18%	0.022%
123	11.057	10.995	11.082	VV	481	10649	0.20%	0.024%
124	11.092	11.082	11.099	VV	135	1297	0.02%	0.003%
125	11.133	11.099	11.194	VV	1742	55088	1.02%	0.124%
126	11.213	11.194	11.389	VV	840	38765	0.72%	0.087%
127	11.423	11.389	11.444	PV	223	4135	0.08%	0.009%
128	11.470	11.444	11.498	VV	1726	22301	0.41%	0.050%
129	11.538	11.498	11.581	VV	1355	27329	0.51%	0.061%
130	11.588	11.581	11.602	VV	247	2248	0.04%	0.005%
131	11.630	11.602	11.683	VV	645	13853	0.26%	0.031%
132	11.704	11.683	11.721	VV	479	5845	0.11%	0.013%
133	11.735	11.721	11.761	VV	507	5147	0.10%	0.012%
134	11.782	11.761	11.802	PV	930	11406	0.21%	0.026%
135	11.860	11.802	11.985	VV	480452	5409943	100.00%	12.172%
136	11.993	11.985	12.009	VV	705	8010	0.15%	0.018%
137	12.028	12.009	12.048	VV	1164	18552	0.34%	0.042%
138	12.061	12.048	12.084	VV	888	13880	0.26%	0.031%
139	12.097	12.084	12.126	VV	601	10013	0.19%	0.023%
140	12.143	12.126	12.171	VV	346	5212	0.10%	0.012%
141	12.207	12.171	12.230	VV	773	11122	0.21%	0.025%

					rteres			
142	12.243	12.230	12.284	VV	267	4330	0.08%	0.010%
143	12.324	12.284	12.349	PV	1911	41584	0.77%	0.094%
144	12.375	12.349	12.441	VV	6048	148764	2.75%	0.335%
145	12.464	12.441	12.634	VV	43571	667258	12.33%	1.501%
146	12.658	12.634	12.687	VV	894	20523	0.38%	0.046%
147	12.699	12.687	12.748	VV	467	14853	0.27%	0.033%
148	12.782	12.748	12.798	VV	1037	21301	0.39%	0.048%
149	12.811	12.798	12.825	VV	941	13733	0.25%	0.031%
150	12.845	12.825	12.901	VV	1516	30457	0.56%	0.069%
151	12.931	12.901	13.034	VV	6551	125840	2.33%	0.283%
152	13.052	13.034	13.069	VV	273	3662	0.07%	0.008%
153	13.115	13.069	13.158	VV	1093	26653	0.49%	0.060%
154	13.171	13.158	13.181	VV	249	2204	0.04%	0.005%
155	13.228	13.181	13.259	VV	6110	109170	2.02%	0.246%
156	13.293	13.259	13.394	VV	355982	4243648	78.44%	9.548%
157	13.400	13.394	13.434	VV	863	12922	0.24%	0.029%
158	13.457	13.434	13.472	VV	1095	16370	0.30%	0.037%
159	13.504	13.472	13.514	VV	1099	24556	0.45%	0.055%
160	13.536	13.514	13.634	VV	2086	83806	1.55%	0.189%
161	13.694	13.634	13.781	VV	5495	123554	2.28%	0.278%
162	13.833	13.781	13.917	VV	807	34389	0.64%	0.077%
163	13.936	13.917	13.951	VV	429	6007	0.11%	0.014%
164	13.991	13.951	14.021	VV	1187	28093	0.52%	0.063%
165	14.041	14.021	14.059	VV	2440	31007	0.57%	0.070%
166	14.071	14.059	14.084	VV	941	12459	0.23%	0.028%
167	14.096	14.084	14.121	VV	877	14222	0.26%	0.032%
168	14.145	14.121	14.181	VV	596	12857	0.24%	0.029%
169	14.203	14.181	14.224	VV	247	3642	0.07%	0.008%
170	14.259	14.224	14.272	PV	258	4296	0.08%	0.010%
171	14.285	14.272	14.318	VV	228	3884	0.07%	0.009%
172	14.335	14.318	14.364	VV	167	2284	0.04%	0.005%
173	14.368	14.364	14.381	VV	139	564	0.01%	0.001%
174	14.441	14.381	14.464	PV	1182	27385	0.51%	0.062%
175	14.479	14.464	14.514	VV	1169	19304	0.36%	0.043%
176	14.551	14.514	14.578	VV	754	17332	0.32%	0.039%
177	14.604	14.578	14.625	VV	1704	24113	0.45%	0.054%
178	14.664	14.625	14.698	VV	1261	32609	0.60%	0.073%
179	14.709	14.698	14.732	VV	605	9098	0.17%	0.020%
180	14.760	14.732	14.776	VV	599	11869	0.22%	0.027%
181	14.801	14.776	14.832	VV	1012	22153	0.41%	0.050%
182	14.849	14.832	14.878	VV	577	12930	0.24%	0.029%
183	14.897	14.878	14.914	VV	377	6725	0.12%	0.015%
184	14.925	14.914	14.936	VV	288	3199	0.06%	0.007%
185	14.952	14.936	14.960	VV	332	4051	0.07%	0.009%
186	14.998	14.960	15.060	VV	630	18368	0.34%	0.041%
187	15.143	15.060	15.174	PV	3512	114024	2.11%	0.257%
188	15.191	15.174	15.225	VV	3260	57275	1.06%	0.129%
189	15.270	15.225	15.304	VV	745	24668	0.46%	0.056%
190	15.328	15.304	15.378	VV	424	9614	0.18%	0.022%
191	15.481	15.378	15.490	PV	264	7879	0.15%	0.018%
192	15.524	15.490	15.604	VV	19371	359261	6.64%	0.808%
193	15.621	15.604	15.638	VV	735	11747	0.22%	0.026%
194	15.662	15.638	15.701	VV	2367	40888	0.76%	0.092%

					rteres			
195	15.731	15.701	15.767	VV	6583	89746	1.66%	0.202%
196	15.794	15.767	15.820	PV	950	14337	0.27%	0.032%
197	15.841	15.820	15.864	VV	213	3720	0.07%	0.008%
198	15.928	15.864	15.941	PV	565	11101	0.21%	0.025%
199	15.978	15.941	16.003	VV	383	10090	0.19%	0.023%
200	16.048	16.003	16.088	VV	853	18842	0.35%	0.042%
201	16.126	16.088	16.141	VV	842	15289	0.28%	0.034%
202	16.162	16.141	16.188	VV	3145	42917	0.79%	0.097%
203	16.229	16.188	16.264	VV	1622	29633	0.55%	0.067%
204	16.301	16.264	16.314	VV	288	6249	0.12%	0.014%
205	16.374	16.314	16.398	PV	496	14129	0.26%	0.032%
206	16.409	16.398	16.421	VV	226	1485	0.03%	0.003%
207	16.454	16.421	16.474	PV	858	17210	0.32%	0.039%
208	16.539	16.474	16.591	VV	4276	104516	1.93%	0.235%
209	16.644	16.591	16.665	VV	4395	89119	1.65%	0.201%
210	16.685	16.665	16.696	VV	2940	44682	0.83%	0.101%
211	16.721	16.696	16.768	VV	5645	124223	2.30%	0.279%
212	16.808	16.768	16.831	VV	1241	38145	0.71%	0.086%
213	16.843	16.831	16.898	VV	828	20684	0.38%	0.047%
214	16.945	16.898	16.972	PV	976	21464	0.40%	0.048%
215	17.000	16.972	17.039	VV	2057	45351	0.84%	0.102%
216	17.109	17.039	17.135	VV	8400	179875	3.32%	0.405%
217	17.158	17.135	17.175	VV	6781	99633	1.84%	0.224%
218	17.189	17.175	17.219	VV	4695	67922	1.26%	0.153%
219	17.236	17.219	17.252	VV	314	4326	0.08%	0.010%
220	17.296	17.252	17.324	VV	1001	18860	0.35%	0.042%
221	17.354	17.324	17.373	VV	753	15521	0.29%	0.035%
222	17.399	17.373	17.413	VV	1270	20471	0.38%	0.046%
223	17.445	17.413	17.455	VV	1656	30075	0.56%	0.068%
224	17.480	17.455	17.511	VV	5344	114159	2.11%	0.257%
225	17.521	17.511	17.530	VV	2280	24364	0.45%	0.055%
226	17.560	17.530	17.613	VV	23693	363553	6.72%	0.818%
227	17.639	17.613	17.653	VV	2351	41338	0.76%	0.093%
228	17.664	17.653	17.698	VV	1700	30684	0.57%	0.069%
229	17.735	17.698	17.754	PV	1847	37277	0.69%	0.084%
230	17.771	17.754	17.808	VV	1239	26669	0.49%	0.060%
231	17.851	17.808	17.865	VV	984	24891	0.46%	0.056%
232	17.889	17.865	17.907	VV	2443	43830	0.81%	0.099%
233	17.926	17.907	17.938	VV	2710	42873	0.79%	0.096%
234	17.996	17.938	18.043	VV	12118	286288	5.29%	0.644%
235	18.088	18.043	18.116	VV	16139	296162	5.47%	0.666%
236	18.137	18.116	18.205	VV	5626	196208	3.63%	0.441%
237	18.224	18.205	18.251	VV	3209	72710	1.34%	0.164%
238	18.269	18.251	18.283	VV	2882	46283	0.86%	0.104%
239	18.317	18.283	18.332	VV	8107	156751	2.90%	0.353%
240	18.356	18.332	18.391	VV	18102	385219	7.12%	0.867%
241	18.418	18.391	18.449	VV	25347	446334	8.25%	1.004%
242	18.510	18.449	18.568	VV	6233	298441	5.52%	0.671%
243	18.590	18.568	18.604	VV	2927	59618	1.10%	0.134%
244	18.639	18.604	18.654	VV	3412	94266	1.74%	0.212%
245	18.662	18.654	18.670	VV	3348	29927	0.55%	0.067%
246	18.710	18.670	18.735	VV	4867	150634	2.78%	0.339%

					rteres			
247	18.747	18.735	18.757	VV	3585	45559	0.84%	0.103%
248	18.825	18.757	18.862	VV	13816	434350	8.03%	0.977%
249	18.876	18.862	18.891	VV	4750	78295	1.45%	0.176%
250	18.931	18.891	18.963	VV	26251	530743	9.81%	1.194%
251	18.975	18.963	18.999	VV	7164	143158	2.65%	0.322%
252	19.021	18.999	19.046	VV	7140	166007	3.07%	0.374%
253	19.107	19.046	19.116	VV	6026	214182	3.96%	0.482%
254	19.184	19.116	19.206	VV	19001	556205	10.28%	1.251%
255	19.224	19.206	19.281	VV	17008	520179	9.62%	1.170%
256	19.325	19.281	19.341	VV	9531	302838	5.60%	0.681%
257	19.383	19.341	19.400	VV	8876	295480	5.46%	0.665%
258	19.440	19.400	19.481	VV	10527	447444	8.27%	1.007%
259	19.492	19.481	19.505	VV	8440	117385	2.17%	0.264%
260	19.524	19.505	19.554	VV	8942	247886	4.58%	0.558%
261	19.562	19.554	19.571	VV	8817	88713	1.64%	0.200%
262	19.612	19.571	19.658	VV	14491	576499	10.66%	1.297%
263	19.680	19.658	19.700	VV	15282	313225	5.79%	0.705%
264	19.722	19.700	19.751	VV	17183	391097	7.23%	0.880%
265	19.793	19.751	19.811	VV	11495	365722	6.76%	0.823%
266	19.828	19.811	19.858	VV	12489	319052	5.90%	0.718%
267	19.905	19.858	19.928	VV	12707	497838	9.20%	1.120%
268	19.982	19.928	20.048	VV	18882	1032476	19.08%	2.323%
269	20.060	20.048	20.074	VV	12073	188063	3.48%	0.423%
270	20.102	20.074	20.110	VV	12966	263331	4.87%	0.592%
271	20.141	20.110	20.158	VV	14129	379699	7.02%	0.854%
272	20.239	20.158	20.281	VV	16660	1127876	20.85%	2.538%
273	20.350	20.281	20.381	VV	22679	1063773	19.66%	2.393%
274	20.418	20.381	20.436	VV	18858	598259	11.06%	1.346%
275	20.469	20.436	20.486	VV	18346	530943	9.81%	1.195%
276	20.510	20.486	20.524	VV	20776	439317	8.12%	0.988%
277	20.547	20.524	20.557	VV	20062	374705	6.93%	0.843%
278	20.580	20.557	20.591	VV	20613	414694	7.67%	0.933%
279	20.621	20.591	20.641	VV	20452	598791	11.07%	1.347%
280	20.705	20.641	20.731	VV	24575	1154061	21.33%	2.597%
281	20.742	20.731	20.768	VV	21205	456664	8.44%	1.027%
282	20.823	20.768	20.838	VV	21329	864407	15.98%	1.945%
283	20.874	20.838	20.899	VV	20717	749091	13.85%	1.685%
284	20.927	20.899	20.967	VV	19895	788091	14.57%	1.773%
285	20.990	20.967	21.000	VV	19293	363126	6.71%	0.817%
286	21.022	21.000	21.042	VV	19489	475712	8.79%	1.070%
287	21.076	21.042	21.206	VV	22519	1836589	33.95%	4.132%
288	21.221	21.206	21.250	VV	16558	424117	7.84%	0.954%
289	21.264	21.250	21.306	VV	16002	521849	9.65%	1.174%
290	21.314	21.306	21.365	VV	15164	500553	9.25%	1.126%
291	21.405	21.365	21.419	VV	13651	430047	7.95%	0.968%
292	21.435	21.419	21.449	VV	13366	234625	4.34%	0.528%
293	21.486	21.449	21.541	VV	14485	706236	13.05%	1.589%
294	21.558	21.541	21.574	VV	11240	217418	4.02%	0.489%
295	21.605	21.574	21.657	VV	10868	507770	9.39%	1.142%
296	21.668	21.657	21.676	VV	9406	104661	1.93%	0.235%
297	21.761	21.676	21.793	VV	9715	654335	12.10%	1.472%
298	21.858	21.793	21.931	VV	8657	635824	11.75%	1.431%
299	21.957	21.931	21.994	VV	7267	233379	4.31%	0.525%

					rters				
300	22.105	21.994	22.124	VV	5542	371591	6.87%	0.836%	
301	22.131	22.124	22.142	VV	5041	52238	0.97%	0.118%	
302	22.161	22.142	22.244	VV	4638	210835	3.90%	0.474%	
303	22.256	22.244	22.291	VV	1399	22415	0.41%	0.050%	
					Sum of corrected areas:	44445105			

Aliphatic EPH 100824.M Mon Oct 14 05:24:13 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-9	SDG No.:	P4385
Lab Sample ID:	P4385-18	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 19:33	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	16.0		1	1.92	2.14	mg/kg	FE050628.D
Aliphatic C9-C28	Aliphatic C9-C28	2.49	J	1	1.84	4.27	mg/kg	FE050628.D
Total AliphaticEPH	Total AliphaticEPH	18.5			3.76	6.41	mg/kg	
Total EPH	Total EPH	18.5			3.76	6.41	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-9	SDG No.:	P4385
Lab Sample ID:	P4385-18	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050628.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.49	J	1.84	4.27	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.0		1.92	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.7		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-18	Acq On:	11 Oct 2024 19:33
Client Sample ID:	SP-9	Operator:	YP\AJ
Data file:	FE050628.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.149	6.765	350641	2.454	300	ug/ml
Aliphatic C12-C16	6.766	10.197	823698	5.676	200	ug/ml
Aliphatic C16-C21	10.198	13.555	1788388	12.385	300	ug/ml
Aliphatic C21-C28	13.556	17.208	2390242	16.814	400	ug/ml
Aliphatic C28-C40	17.209	22.055	31149150	225.224	600	ug/ml
Aliphatic EPH	3.149	22.055	36502119	262.553		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	5051468	32.04		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	3984071	33.68		ug/ml
Aliphatic C9-C28	3.149	17.208	5352969	37.329	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050628.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 19:33
 Operator : YP\AJ
 Sample : P4385-18
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SP-9

Integration File: autoint1.e
 Quant Time: Oct 14 04:39:42 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.859	5051468	32.041 ug/ml
Spiked Amount	50.000	Recovery	= 64.08%
12) S 1-chlorooctadecane (S...	13.293	3984071	33.680 ug/ml
Spiked Amount	50.000	Recovery	= 67.36%

Target Compounds

(f)=RT Delta > 1/2 Window

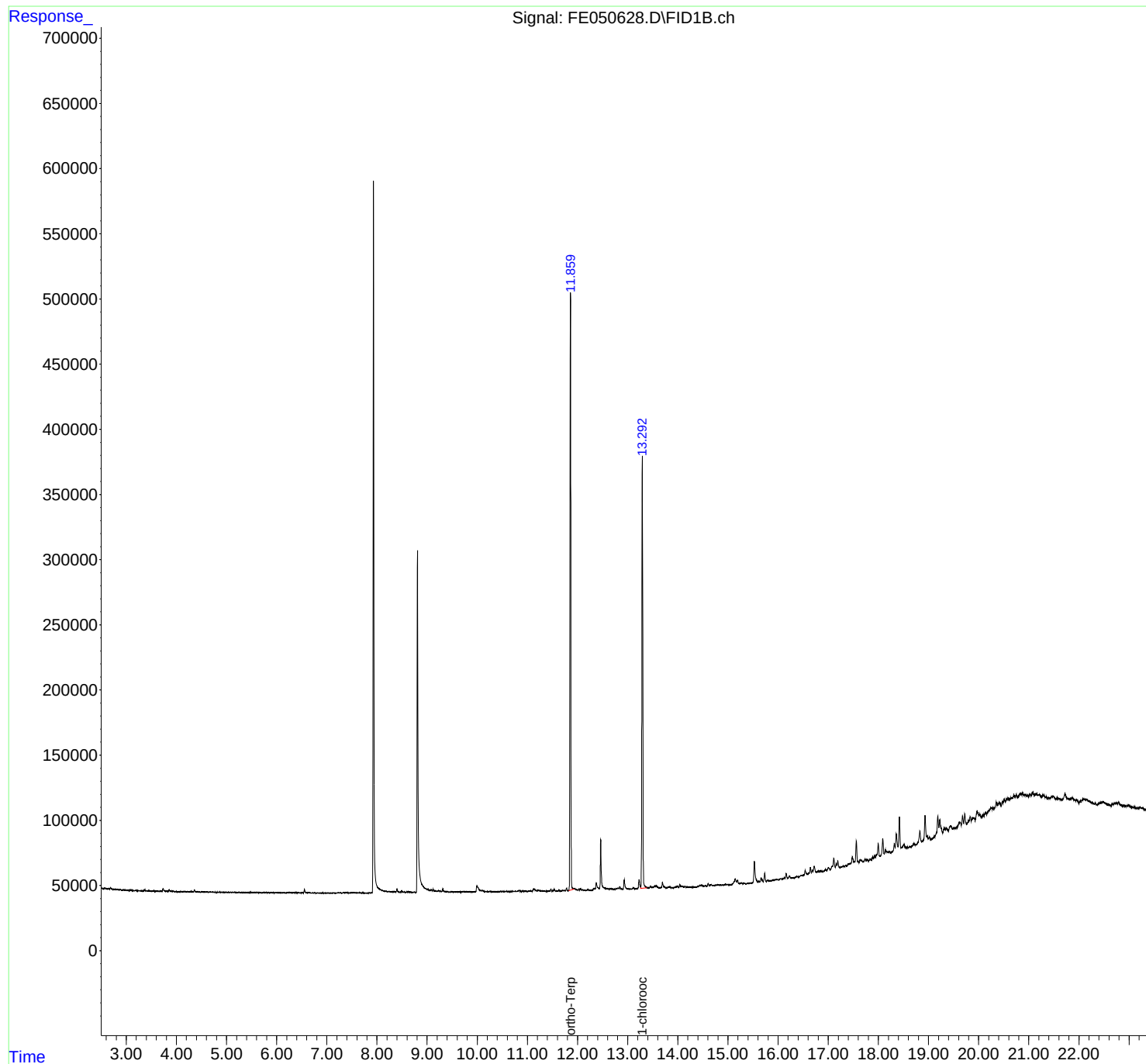
(m)=manual int.

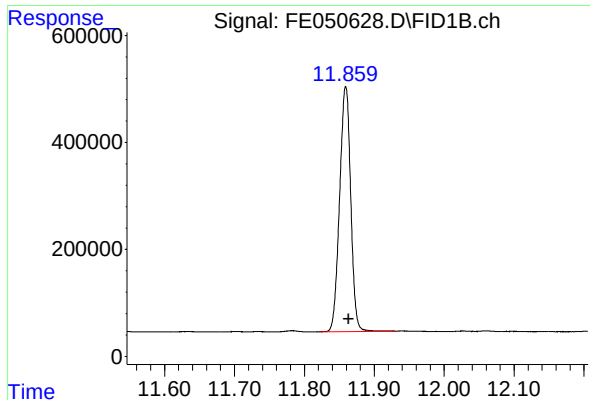
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050628.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 19:33
Operator : YP\AJ
Sample : P4385-18
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-9

Integration File: autoint1.e
Quant Time: Oct 14 04:39:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

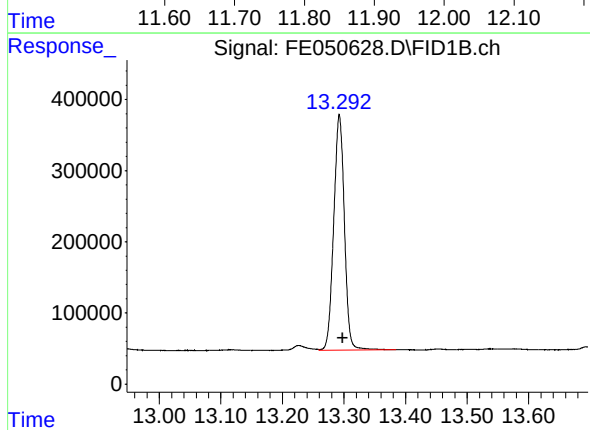




#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 5051468
Conc: 32.04 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-9



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 3984071
Conc: 33.68 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050628.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 19:33
Sample : P4385-18
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.121	3.104	3.165	BV	71	747	0.01%	0.002%
2	3.175	3.165	3.182	PV	130	613	0.01%	0.001%
3	3.197	3.182	3.218	VV	123	1108	0.02%	0.002%
4	3.245	3.218	3.336	VV	166	5329	0.10%	0.011%
5	3.369	3.336	3.419	PV	993	14547	0.28%	0.031%
6	3.438	3.419	3.551	VV	201	6441	0.13%	0.014%
7	3.558	3.551	3.574	VV	89	692	0.01%	0.001%
8	3.599	3.574	3.618	PV	170	2289	0.04%	0.005%
9	3.635	3.618	3.667	VV	163	2174	0.04%	0.005%
10	3.687	3.667	3.718	VV	191	3615	0.07%	0.008%
11	3.734	3.718	3.811	VV	2263	32464	0.64%	0.070%
12	3.855	3.811	3.914	VV	1349	24842	0.49%	0.054%
13	3.933	3.914	4.030	VV	491	10471	0.21%	0.023%
14	4.050	4.030	4.128	PV	155	2858	0.06%	0.006%
15	4.140	4.128	4.247	VV	160	9611	0.19%	0.021%
16	4.292	4.247	4.334	VV	367	11487	0.22%	0.025%
17	4.361	4.334	4.471	VV	1640	28901	0.57%	0.062%
18	4.497	4.471	4.527	VV	185	4077	0.08%	0.009%
19	4.540	4.527	4.597	VV	167	3720	0.07%	0.008%
20	4.608	4.597	4.654	VV	162	2554	0.05%	0.006%
21	4.676	4.654	4.703	VV	212	3833	0.08%	0.008%
22	4.718	4.703	4.738	VV	340	3623	0.07%	0.008%
23	4.745	4.738	4.808	VV	143	3769	0.07%	0.008%
24	4.824	4.808	4.859	VV	138	2989	0.06%	0.006%
25	4.875	4.859	4.954	VV	166	6237	0.12%	0.013%
26	4.964	4.954	5.041	VV	180	6180	0.12%	0.013%
27	5.050	5.041	5.063	VV	148	1282	0.03%	0.003%
28	5.085	5.063	5.101	PV	184	3058	0.06%	0.007%
29	5.108	5.101	5.146	VV	203	3163	0.06%	0.007%
30	5.162	5.146	5.223	VV	233	5558	0.11%	0.012%
31	5.250	5.223	5.283	VV	186	3714	0.07%	0.008%
32	5.325	5.283	5.401	VV	134	4122	0.08%	0.009%
33	5.411	5.401	5.429	VV	148	1485	0.03%	0.003%
34	5.442	5.429	5.451	VV	108	1266	0.02%	0.003%
35	5.474	5.451	5.501	VV	223	5196	0.10%	0.011%
36	5.511	5.501	5.534	VV	174	2001	0.04%	0.004%

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37	5.539	5.534	5.567	VV	60	1177	0.02%	0.003%
38	5.594	5.567	5.624	VV	314	4062	0.08%	0.009%
39	5.635	5.624	5.694	PV	100	2771	0.05%	0.006%
40	5.702	5.694	5.717	VV	77	567	0.01%	0.001%
41	5.745	5.717	5.761	VV	131	2287	0.04%	0.005%
42	5.777	5.761	5.789	VV	172	1991	0.04%	0.004%
43	5.805	5.789	5.817	VV	142	1855	0.04%	0.004%
44	5.836	5.817	5.878	VV	219	4668	0.09%	0.010%
45	5.898	5.878	5.942	VV	220	5180	0.10%	0.011%
46	5.948	5.942	6.019	VV	128	4482	0.09%	0.010%
47	6.028	6.019	6.076	VV	119	2315	0.05%	0.005%
48	6.105	6.076	6.144	VV	238	4401	0.09%	0.009%
49	6.153	6.144	6.159	VV	68	537	0.01%	0.001%
50	6.166	6.159	6.188	VV	74	845	0.02%	0.002%
51	6.239	6.188	6.305	PV	354	14164	0.28%	0.031%
52	6.322	6.305	6.339	VV	249	3668	0.07%	0.008%
53	6.378	6.339	6.399	VV	422	8073	0.16%	0.017%
54	6.406	6.399	6.421	VV	142	1653	0.03%	0.004%
55	6.435	6.421	6.480	VV	266	6540	0.13%	0.014%
56	6.489	6.480	6.514	VV	194	2677	0.05%	0.006%
57	6.555	6.514	6.615	VV	2823	40071	0.78%	0.086%
58	6.630	6.615	6.649	VV	269	3596	0.07%	0.008%
59	6.662	6.649	6.705	VV	176	3904	0.08%	0.008%
60	6.718	6.705	6.741	VV	128	1921	0.04%	0.004%
61	6.748	6.741	6.781	VV	139	1967	0.04%	0.004%
62	6.819	6.781	6.868	PV	118	3638	0.07%	0.008%
63	6.927	6.868	6.978	VV	136	4728	0.09%	0.010%
64	6.984	6.978	7.004	VV	44	707	0.01%	0.002%
65	7.011	7.004	7.024	PV	91	636	0.01%	0.001%
66	7.033	7.024	7.110	VV	134	2253	0.04%	0.005%
67	7.119	7.110	7.151	VV	88	949	0.02%	0.002%
68	7.157	7.151	7.215	VV	91	2986	0.06%	0.006%
69	7.222	7.215	7.254	VV	171	3149	0.06%	0.007%
70	7.298	7.254	7.319	VV	153	4361	0.09%	0.009%
71	7.386	7.319	7.488	VV	352	17232	0.34%	0.037%
72	7.505	7.488	7.579	VV	241	9899	0.19%	0.021%
73	7.613	7.579	7.634	VV	299	6622	0.13%	0.014%
74	7.648	7.634	7.714	VV	168	4642	0.09%	0.010%
75	7.731	7.714	7.748	VV	143	1483	0.03%	0.003%
76	7.777	7.748	7.825	PV	108	2559	0.05%	0.006%
77	7.850	7.825	7.884	VV	102	2286	0.04%	0.005%
78	8.177	8.168	8.224	VV	1287	35958	0.70%	0.077%
79	8.234	8.224	8.268	VV	947	22497	0.44%	0.048%
80	8.282	8.268	8.307	VV	847	17423	0.34%	0.038%
81	8.316	8.307	8.328	VV	765	9143	0.18%	0.020%
82	8.344	8.328	8.371	VV	897	20720	0.41%	0.045%
83	8.400	8.371	8.451	VV	3143	55893	1.09%	0.120%
84	8.493	8.451	8.566	VV	1206	42105	0.82%	0.091%
85	8.602	8.566	8.611	VV	559	11182	0.22%	0.024%
86	8.626	8.611	8.698	VV	676	22222	0.44%	0.048%
87	8.704	8.698	8.712	VV	201	1707	0.03%	0.004%
88	8.743	8.712	8.778	VV	532	8724	0.17%	0.019%
89	9.084	9.068	9.104	VV	2154	39979	0.78%	0.086%

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90	9.122	9.104	9.154	VV	2405	47529	0.93%	0.102%
91	9.167	9.154	9.198	VV	1282	27934	0.55%	0.060%
92	9.230	9.198	9.291	VV	1465	53427	1.05%	0.115%
93	9.314	9.291	9.354	VV	2364	47146	0.92%	0.102%
94	9.364	9.354	9.387	VV	624	10170	0.20%	0.022%
95	9.409	9.387	9.463	VV	623	17944	0.35%	0.039%
96	9.477	9.463	9.491	VV	398	5501	0.11%	0.012%
97	9.502	9.491	9.563	VV	367	10630	0.21%	0.023%
98	9.615	9.563	9.630	VV	260	7579	0.15%	0.016%
99	9.651	9.630	9.663	VV	188	3004	0.06%	0.006%
100	9.716	9.663	9.753	VV	549	19875	0.39%	0.043%
101	9.777	9.753	9.804	VV	375	8860	0.17%	0.019%
102	9.823	9.804	9.840	VV	399	6044	0.12%	0.013%
103	9.855	9.840	9.900	VV	291	6699	0.13%	0.014%
104	9.933	9.900	9.953	VV	301	4966	0.10%	0.011%
105	9.993	9.953	10.078	VV	4868	149145	2.92%	0.321%
106	10.098	10.078	10.191	VV	1429	41562	0.81%	0.090%
107	10.207	10.191	10.244	VV	417	9404	0.18%	0.020%
108	10.263	10.244	10.320	VV	318	10148	0.20%	0.022%
109	10.330	10.320	10.358	VV	209	2761	0.05%	0.006%
110	10.368	10.358	10.408	VV	135	1928	0.04%	0.004%
111	10.444	10.408	10.462	PV	235	5360	0.10%	0.012%
112	10.483	10.462	10.528	VV	439	9112	0.18%	0.020%
113	10.590	10.528	10.614	VV	294	10737	0.21%	0.023%
114	10.628	10.614	10.658	VV	242	3970	0.08%	0.009%
115	10.718	10.658	10.734	VV	302	7155	0.14%	0.015%
116	10.763	10.734	10.781	VV	463	8634	0.17%	0.019%
117	10.803	10.781	10.817	VV	548	8270	0.16%	0.018%
118	10.836	10.817	10.881	VV	1125	18744	0.37%	0.040%
119	10.906	10.881	10.931	VV	560	10756	0.21%	0.023%
120	10.944	10.931	11.010	VV	417	12551	0.25%	0.027%
121	11.058	11.010	11.088	VV	549	12328	0.24%	0.027%
122	11.122	11.088	11.188	VV	2122	67630	1.32%	0.146%
123	11.213	11.188	11.275	VV	973	36766	0.72%	0.079%
124	11.286	11.275	11.391	VV	475	18568	0.36%	0.040%
125	11.422	11.391	11.441	PV	297	5771	0.11%	0.012%
126	11.470	11.441	11.495	VV	1775	23993	0.47%	0.052%
127	11.538	11.495	11.574	VV	1748	31928	0.63%	0.069%
128	11.582	11.574	11.602	VV	264	3079	0.06%	0.007%
129	11.634	11.602	11.674	VV	701	13072	0.26%	0.028%
130	11.703	11.674	11.719	PV	787	9924	0.19%	0.021%
131	11.735	11.719	11.756	VV	604	7620	0.15%	0.016%
132	11.782	11.756	11.806	VV	2212	27974	0.55%	0.060%
133	11.859	11.806	11.931	VV	459028	5105699	100.00%	10.996%
134	11.940	11.931	12.005	VV	1557	46098	0.90%	0.099%
135	12.027	12.005	12.044	VV	1504	23143	0.45%	0.050%
136	12.060	12.044	12.081	VV	1654	23822	0.47%	0.051%
137	12.097	12.081	12.128	VV	825	14668	0.29%	0.032%
138	12.143	12.128	12.178	VV	331	5563	0.11%	0.012%
139	12.207	12.178	12.231	VV	1082	15956	0.31%	0.034%
140	12.256	12.231	12.278	VV	258	5341	0.10%	0.012%
141	12.325	12.278	12.344	PV	1627	31383	0.61%	0.068%

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142	12.375	12.344	12.441	VV	5808	146105	2.86%	0.315%
143	12.463	12.441	12.577	VV	38564	568775	11.14%	1.225%
144	12.588	12.577	12.639	VV	1070	31446	0.62%	0.068%
145	12.657	12.639	12.688	VV	804	19615	0.38%	0.042%
146	12.704	12.688	12.724	VV	582	11567	0.23%	0.025%
147	12.744	12.724	12.758	VV	640	10718	0.21%	0.023%
148	12.809	12.758	12.825	VV	1352	36191	0.71%	0.078%
149	12.846	12.825	12.902	VV	2060	40272	0.79%	0.087%
150	12.930	12.902	13.019	VV	7297	135132	2.65%	0.291%
151	13.048	13.019	13.067	VV	226	4962	0.10%	0.011%
152	13.117	13.067	13.154	VV	1060	25469	0.50%	0.055%
153	13.169	13.154	13.184	VV	237	3398	0.07%	0.007%
154	13.227	13.184	13.259	VV	6965	116300	2.28%	0.250%
155	13.293	13.259	13.424	VV	329352	4050434	79.33%	8.723%
156	13.454	13.424	13.475	VV	1768	33290	0.65%	0.072%
157	13.503	13.475	13.517	VV	1208	26239	0.51%	0.057%
158	13.537	13.517	13.554	VV	1859	34752	0.68%	0.075%
159	13.576	13.554	13.632	VV	1714	54509	1.07%	0.117%
160	13.641	13.632	13.649	VV	513	4668	0.09%	0.010%
161	13.694	13.649	13.779	VV	4541	103642	2.03%	0.223%
162	13.831	13.779	13.863	VV	1107	30585	0.60%	0.066%
163	13.878	13.863	13.914	VV	265	5823	0.11%	0.013%
164	13.935	13.914	13.953	VV	571	8316	0.16%	0.018%
165	13.993	13.953	14.021	VV	1314	32567	0.64%	0.070%
166	14.041	14.021	14.058	VV	2556	32199	0.63%	0.069%
167	14.070	14.058	14.082	VV	1214	14520	0.28%	0.031%
168	14.095	14.082	14.128	VV	1127	20585	0.40%	0.044%
169	14.143	14.128	14.184	VV	812	17058	0.33%	0.037%
170	14.195	14.184	14.231	VV	339	6167	0.12%	0.013%
171	14.262	14.231	14.274	VV	319	5481	0.11%	0.012%
172	14.277	14.274	14.324	VV	279	4217	0.08%	0.009%
173	14.341	14.324	14.358	PV	136	1528	0.03%	0.003%
174	14.441	14.358	14.462	VV	1377	36529	0.72%	0.079%
175	14.478	14.462	14.504	VV	1330	23914	0.47%	0.052%
176	14.548	14.504	14.581	VV	882	25829	0.51%	0.056%
177	14.604	14.581	14.627	VV	2170	30010	0.59%	0.065%
178	14.665	14.627	14.687	VV	1360	32647	0.64%	0.070%
179	14.708	14.687	14.728	VV	685	13273	0.26%	0.029%
180	14.757	14.728	14.774	VV	651	13979	0.27%	0.030%
181	14.800	14.774	14.834	VV	979	23446	0.46%	0.050%
182	14.846	14.834	14.880	VV	576	11630	0.23%	0.025%
183	14.956	14.880	14.978	VV	1003	30132	0.59%	0.065%
184	14.999	14.978	15.026	VV	646	12833	0.25%	0.028%
185	15.038	15.026	15.059	VV	131	1799	0.04%	0.004%
186	15.143	15.059	15.171	PV	4461	123751	2.42%	0.267%
187	15.190	15.171	15.224	VV	3386	62034	1.21%	0.134%
188	15.242	15.224	15.250	VV	639	9463	0.19%	0.020%
189	15.270	15.250	15.308	VV	920	19388	0.38%	0.042%
190	15.321	15.308	15.374	VV	514	9421	0.18%	0.020%
191	15.476	15.374	15.487	PV	227	8257	0.16%	0.018%
192	15.525	15.487	15.601	VV	16492	308442	6.04%	0.664%
193	15.621	15.601	15.636	VV	972	15211	0.30%	0.033%
194	15.661	15.636	15.701	VV	3302	58178	1.14%	0.125%

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195	15.731	15.701	15.764	VV	6492	91106	1.78%	0.196%
196	15.790	15.764	15.844	PV	1011	19444	0.38%	0.042%
197	15.933	15.844	15.946	VV	563	15555	0.30%	0.034%
198	15.961	15.946	16.008	VV	476	11870	0.23%	0.026%
199	16.047	16.008	16.090	VV	829	19904	0.39%	0.043%
200	16.129	16.090	16.139	VV	1039	17461	0.34%	0.038%
201	16.161	16.139	16.191	VV	4118	58274	1.14%	0.126%
202	16.227	16.191	16.264	VV	2074	37612	0.74%	0.081%
203	16.297	16.264	16.321	VV	369	7465	0.15%	0.016%
204	16.371	16.321	16.414	PV	581	19562	0.38%	0.042%
205	16.454	16.414	16.475	PV	1026	22225	0.44%	0.048%
206	16.539	16.475	16.591	VV	4017	103430	2.03%	0.223%
207	16.643	16.591	16.663	VV	5684	98607	1.93%	0.212%
208	16.683	16.663	16.695	VV	2961	44582	0.87%	0.096%
209	16.719	16.695	16.768	VV	5851	127232	2.49%	0.274%
210	16.808	16.768	16.831	VV	1542	42230	0.83%	0.091%
211	16.847	16.831	16.897	VV	902	22085	0.43%	0.048%
212	16.941	16.897	16.974	PV	1190	28762	0.56%	0.062%
213	17.002	16.974	17.041	VV	2440	52015	1.02%	0.112%
214	17.109	17.041	17.139	VV	8586	193173	3.78%	0.416%
215	17.159	17.139	17.171	VV	4047	55253	1.08%	0.119%
216	17.190	17.171	17.231	VV	5793	90364	1.77%	0.195%
217	17.315	17.231	17.328	VV	765	28716	0.56%	0.062%
218	17.349	17.328	17.374	VV	890	16549	0.32%	0.036%
219	17.402	17.374	17.415	VV	1509	25272	0.49%	0.054%
220	17.446	17.415	17.453	VV	1594	31511	0.62%	0.068%
221	17.481	17.453	17.531	VV	6102	157014	3.08%	0.338%
222	17.559	17.531	17.611	VV	17629	299113	5.86%	0.644%
223	17.641	17.611	17.691	VV	2489	81609	1.60%	0.176%
224	17.732	17.691	17.755	VV	2386	48669	0.95%	0.105%
225	17.771	17.755	17.807	VV	1339	30695	0.60%	0.066%
226	17.848	17.807	17.857	PV	1196	26622	0.52%	0.057%
227	17.889	17.857	17.903	VV	2852	49159	0.96%	0.106%
228	17.925	17.903	17.942	VV	3310	59349	1.16%	0.128%
229	17.996	17.942	18.041	VV	11729	276055	5.41%	0.595%
230	18.087	18.041	18.115	VV	14427	284046	5.56%	0.612%
231	18.139	18.115	18.161	VV	5704	121790	2.39%	0.262%
232	18.166	18.161	18.205	VV	4287	95333	1.87%	0.205%
233	18.225	18.205	18.250	VV	3522	82746	1.62%	0.178%
234	18.318	18.250	18.333	VV	8720	220970	4.33%	0.476%
235	18.357	18.333	18.391	VV	15862	346989	6.80%	0.747%
236	18.418	18.391	18.466	VV	28403	524912	10.28%	1.131%
237	18.507	18.466	18.560	VV	6464	267664	5.24%	0.576%
238	18.574	18.560	18.598	VV	3587	74335	1.46%	0.160%
239	18.637	18.598	18.650	VV	3524	102149	2.00%	0.220%
240	18.707	18.650	18.755	VV	4734	243320	4.77%	0.524%
241	18.827	18.755	18.866	VV	13462	460516	9.02%	0.992%
242	18.930	18.866	18.994	VV	24445	759382	14.87%	1.635%
243	19.016	18.994	19.054	VV	6789	213585	4.18%	0.460%
244	19.184	19.054	19.206	VV	21414	829947	16.26%	1.787%
245	19.224	19.206	19.278	VV	18460	557739	10.92%	1.201%
246	19.314	19.278	19.338	VV	11091	350581	6.87%	0.755%

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247	19.355	19.338	19.400	VV	10690	353361	6.92%	0.761%
248	19.441	19.400	19.493	VV	11459	568072	11.13%	1.223%
249	19.519	19.493	19.541	VV	9630	264128	5.17%	0.569%
250	19.611	19.541	19.623	VV	12721	510396	10.00%	1.099%
251	19.634	19.623	19.652	VV	12547	204273	4.00%	0.440%
252	19.678	19.652	19.700	VV	16971	384690	7.53%	0.829%
253	19.723	19.700	19.768	VV	18119	527820	10.34%	1.137%
254	19.795	19.768	19.808	VV	12237	268919	5.27%	0.579%
255	19.831	19.808	19.849	VV	14949	328062	6.43%	0.707%
256	19.882	19.849	19.928	VV	13199	597898	11.71%	1.288%
257	19.969	19.928	20.004	VV	17182	685654	13.43%	1.477%
258	20.020	20.004	20.049	VV	15157	386650	7.57%	0.833%
259	20.098	20.049	20.107	VV	13856	455919	8.93%	0.982%
260	20.138	20.107	20.158	VV	15704	444042	8.70%	0.956%
261	20.245	20.158	20.270	VV	17901	1090418	21.36%	2.348%
262	20.351	20.270	20.371	VV	20925	1092852	21.40%	2.354%
263	20.412	20.371	20.448	VV	20164	882215	17.28%	1.900%
264	20.472	20.448	20.493	VV	20090	514875	10.08%	1.109%
265	20.510	20.493	20.530	VV	21980	460809	9.03%	0.992%
266	20.588	20.530	20.604	VV	21798	941779	18.45%	2.028%
267	20.615	20.604	20.621	VV	21301	211888	4.15%	0.456%
268	20.637	20.621	20.647	VV	21260	330164	6.47%	0.711%
269	20.704	20.647	20.728	VV	22930	1063803	20.84%	2.291%
270	20.750	20.728	20.779	VV	23079	666679	13.06%	1.436%
271	20.828	20.779	20.858	VV	23254	1042320	20.41%	2.245%
272	20.873	20.858	20.909	VV	23055	678262	13.28%	1.461%
273	20.918	20.909	20.961	VV	21483	653354	12.80%	1.407%
274	20.975	20.961	20.994	VV	20100	392295	7.68%	0.845%
275	21.027	20.994	21.045	VV	20868	616981	12.08%	1.329%
276	21.075	21.045	21.105	VV	21647	739268	14.48%	1.592%
277	21.122	21.105	21.131	VV	19581	302758	5.93%	0.652%
278	21.158	21.131	21.184	VV	19374	602839	11.81%	1.298%
279	21.200	21.184	21.254	VV	18664	755815	14.80%	1.628%
280	21.282	21.254	21.338	VV	17444	839265	16.44%	1.808%
281	21.347	21.338	21.389	VV	15617	453451	8.88%	0.977%
282	21.394	21.389	21.408	VV	14434	168772	3.31%	0.363%
283	21.457	21.408	21.466	VV	15093	500815	9.81%	1.079%
284	21.481	21.466	21.556	VV	14947	717538	14.05%	1.545%
285	21.573	21.556	21.598	VV	12400	309152	6.06%	0.666%
286	21.611	21.598	21.647	VV	11891	334589	6.55%	0.721%
287	21.664	21.647	21.678	VV	11007	195210	3.82%	0.420%
288	21.720	21.678	21.771	VV	14724	670936	13.14%	1.445%
289	21.784	21.771	21.818	VV	10334	279654	5.48%	0.602%
290	21.862	21.818	21.938	VV	9742	630542	12.35%	1.358%
291	21.955	21.938	21.998	VV	7704	237568	4.65%	0.512%
292	22.026	21.998	22.035	VV	5984	126063	2.47%	0.272%
293	22.082	22.035	22.136	VV	7177	381286	7.47%	0.821%
294	22.157	22.136	22.251	VV	5826	306278	6.00%	0.660%
295	22.258	22.251	22.313	VV	2544	65536	1.28%	0.141%
296	22.329	22.313	22.354	VV	1300	19410	0.38%	0.042%
Sum of corrected areas:						46431512		

Aliphatic EPH 100824.M Mon Oct 14 05:25:02 2024 rteres

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-10	SDG No.:	P4385
Lab Sample ID:	P4385-20	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 20:04	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	15.0		1	1.90	2.12	mg/kg	FE050629.D
Aliphatic C9-C28	Aliphatic C9-C28	3.91	J	1	1.82	4.24	mg/kg	FE050629.D
Total AliphaticEPH	Total AliphaticEPH	18.9			3.72	6.36	mg/kg	
Total EPH	Total EPH	18.9			3.72	6.36	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	10/10/24
Project:	Robbinsville	Date Received:	10/10/24
Client Sample ID:	SP-10	SDG No.:	P4385
Lab Sample ID:	P4385-20	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050629.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.91	J	1.82	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.0		1.90	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.4		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.8		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4385-20	Acq On:	11 Oct 2024 20:04
Client Sample ID:	SP-10	Operator:	YP\AJ
Data file:	FE050629.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.149	6.765	329564	2.306	300	ug/ml
Aliphatic C12-C16	6.766	10.197	769523	5.303	200	ug/ml
Aliphatic C16-C21	10.198	13.555	5435124	37.639	300	ug/ml
Aliphatic C21-C28	13.556	17.208	1793381	12.616	400	ug/ml
Aliphatic C28-C40	17.209	22.055	29439615	212.863	600	ug/ml
Aliphatic EPH	3.149	22.055	37767207	270.726		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	5013767	31.8		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	3951180	33.4		ug/ml
Aliphatic C9-C28	3.149	17.208	8327592	57.864	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050629.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 20:04
Operator : YP\AJ
Sample : P4385-20
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-10

Integration File: autoint1.e
Quant Time: Oct 14 04:39:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 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)	11.859	5013767	31.802 ug/ml
Spiked Amount	50.000	Recovery	= 63.60%
12) S 1-chlorooctadecane (S...	13.293	3951180	33.402 ug/ml
Spiked Amount	50.000	Recovery	= 66.80%

Target Compounds

(f)=RT Delta > 1/2 Window

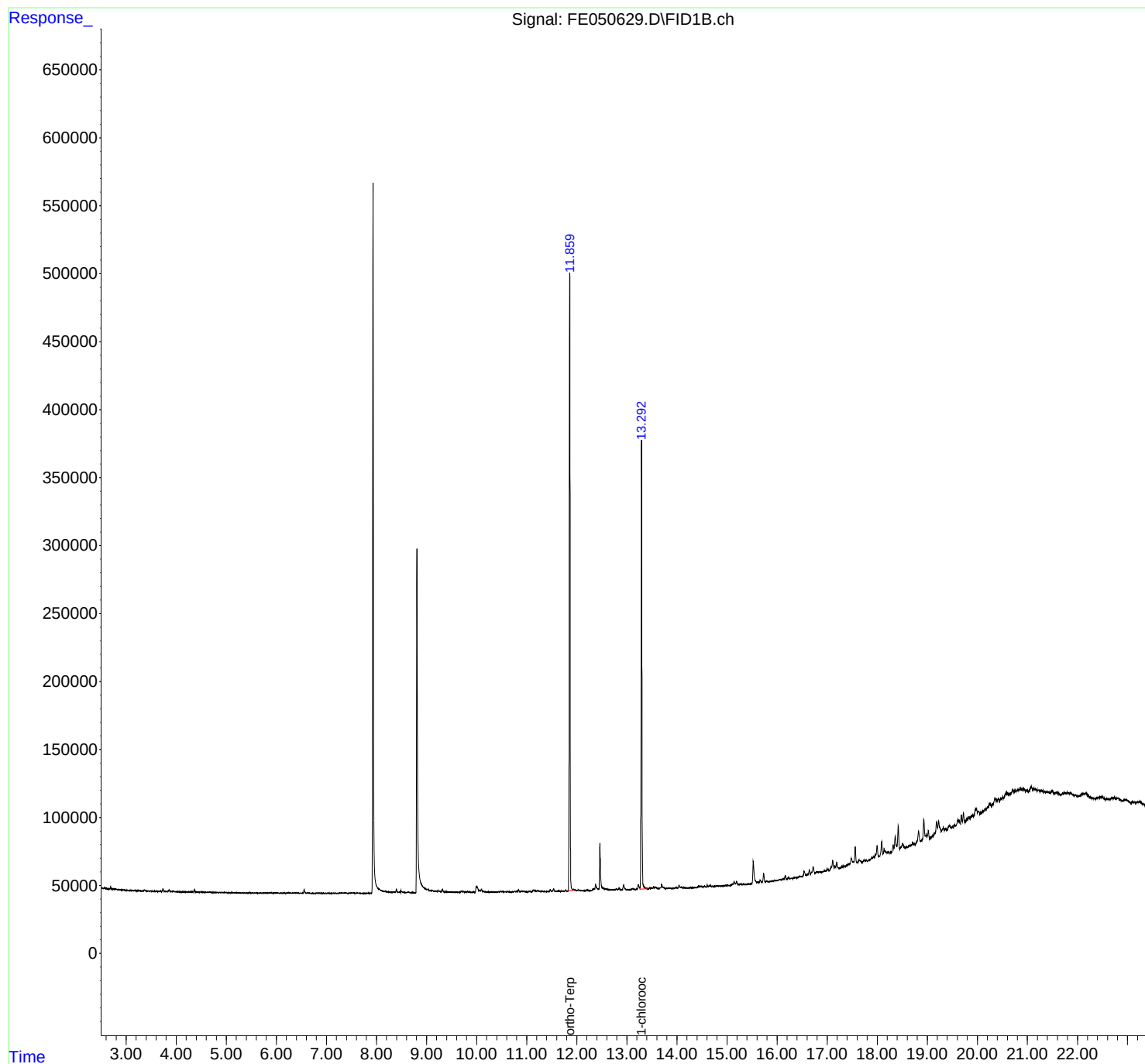
(m)=manual int.

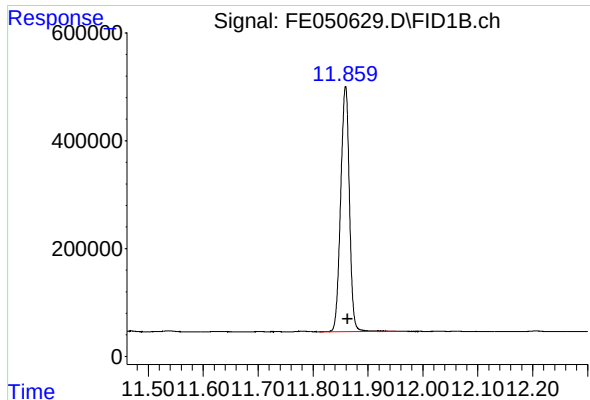
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050629.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 20:04
Operator : YP\AJ
Sample : P4385-20
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
SP-10

Integration File: autoint1.e
Quant Time: Oct 14 04:39:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 2024
Response via : Initial Calibration
Integrator: ChemStation

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

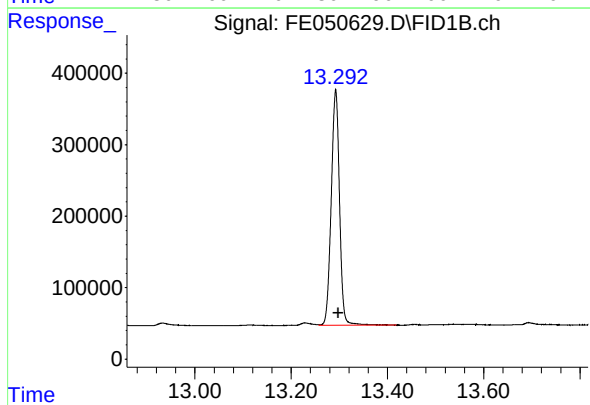




#9 ortho-Terphenyl (SURR)

R.T.: 11.859 min
Delta R.T.: -0.004 min
Response: 5013767
Conc: 31.80 ug/ml

Instrument :
FID_E
ClientSampleId :
SP-10



#12 1-chlorooctadecane (SURR)

R.T.: 13.293 min
Delta R.T.: -0.005 min
Response: 3951180
Conc: 33.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050629.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 20:04
 Sample : P4385-20
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.195	3.154	3.244	BV	51	1543	0.03%	0.004%
2	3.250	3.244	3.321	VV	164	2412	0.05%	0.006%
3	3.368	3.321	3.425	PV	1007	16013	0.32%	0.037%
4	3.438	3.425	3.511	VV	226	5474	0.11%	0.013%
5	3.572	3.511	3.591	PV	230	3207	0.06%	0.007%
6	3.597	3.591	3.640	VV	145	1429	0.03%	0.003%
7	3.649	3.640	3.668	PV	92	1022	0.02%	0.002%
8	3.688	3.668	3.711	VV	212	2710	0.05%	0.006%
9	3.735	3.711	3.831	VV	2032	31619	0.62%	0.072%
10	3.855	3.831	3.914	VV	1106	20459	0.40%	0.047%
11	3.933	3.914	4.065	VV	401	10553	0.21%	0.024%
12	4.073	4.065	4.087	VV	106	654	0.01%	0.001%
13	4.097	4.087	4.131	PV	66	1155	0.02%	0.003%
14	4.151	4.131	4.165	VV	135	2308	0.05%	0.005%
15	4.179	4.165	4.192	VV	153	1881	0.04%	0.004%
16	4.201	4.192	4.221	VV	179	2100	0.04%	0.005%
17	4.230	4.221	4.282	VV	190	4930	0.10%	0.011%
18	4.290	4.282	4.337	VV	219	5463	0.11%	0.012%
19	4.361	4.337	4.480	VV	1667	29424	0.58%	0.067%
20	4.504	4.480	4.607	VV	211	5940	0.12%	0.014%
21	4.619	4.607	4.652	PV	93	1472	0.03%	0.003%
22	4.675	4.652	4.735	PV	400	6721	0.13%	0.015%
23	4.753	4.735	4.781	PV	104	1791	0.04%	0.004%
24	4.788	4.781	4.803	VV	101	977	0.02%	0.002%
25	4.818	4.803	4.861	VV	120	2591	0.05%	0.006%
26	4.872	4.861	4.914	VV	106	2172	0.04%	0.005%
27	4.928	4.914	4.945	VV	108	1468	0.03%	0.003%
28	4.960	4.945	5.021	VV	167	3943	0.08%	0.009%
29	5.030	5.021	5.041	PV	37	504	0.01%	0.001%
30	5.045	5.041	5.054	VV	89	444	0.01%	0.001%
31	5.059	5.054	5.070	VV	93	608	0.01%	0.001%
32	5.082	5.070	5.091	VV	81	880	0.02%	0.002%
33	5.093	5.091	5.142	VV	129	1392	0.03%	0.003%
34	5.165	5.142	5.217	VV	212	4662	0.09%	0.011%
35	5.236	5.217	5.304	VV	166	3113	0.06%	0.007%
36	5.311	5.304	5.321	VV	57	467	0.01%	0.001%

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37	5.475	5.321	5.508	PV	211	8604	0.17%	0.020%
38	5.519	5.508	5.568	VV	140	3162	0.06%	0.007%
39	5.586	5.568	5.617	VV	173	3101	0.06%	0.007%
40	5.642	5.617	5.714	PV	131	4947	0.10%	0.011%
41	5.762	5.714	5.776	VV	147	4176	0.08%	0.010%
42	5.830	5.776	5.874	VV	211	9138	0.18%	0.021%
43	5.897	5.874	5.998	VV	259	10863	0.21%	0.025%
44	6.007	5.998	6.071	VV	178	4387	0.09%	0.010%
45	6.105	6.071	6.148	VV	164	4111	0.08%	0.009%
46	6.160	6.148	6.187	VV	81	1643	0.03%	0.004%
47	6.242	6.187	6.288	PV	326	11990	0.24%	0.027%
48	6.317	6.288	6.341	VV	309	6134	0.12%	0.014%
49	6.378	6.341	6.405	VV	425	9910	0.20%	0.023%
50	6.433	6.405	6.461	VV	288	6884	0.14%	0.016%
51	6.481	6.461	6.512	VV	177	4702	0.09%	0.011%
52	6.556	6.512	6.645	VV	2788	43616	0.86%	0.100%
53	6.666	6.645	6.721	VV	224	5688	0.11%	0.013%
54	6.751	6.721	6.784	VV	112	3007	0.06%	0.007%
55	6.818	6.784	6.834	VV	175	2995	0.06%	0.007%
56	6.851	6.834	6.937	PV	176	6762	0.13%	0.015%
57	6.952	6.937	6.988	VV	137	3224	0.06%	0.007%
58	6.999	6.988	7.034	VV	126	2545	0.05%	0.006%
59	7.242	7.034	7.268	VV	194	11332	0.22%	0.026%
60	7.282	7.268	7.318	VV	198	4694	0.09%	0.011%
61	7.382	7.318	7.438	VV	337	14955	0.29%	0.034%
62	7.563	7.438	7.582	VV	250	14864	0.29%	0.034%
63	7.613	7.582	7.727	VV	501	13384	0.26%	0.031%
64	7.746	7.727	7.763	VV	115	1508	0.03%	0.003%
65	7.785	7.763	7.861	VV	142	3878	0.08%	0.009%
66	8.310	8.290	8.367	VV	854	33267	0.65%	0.076%
67	8.399	8.367	8.453	VV	3022	58200	1.15%	0.133%
68	8.493	8.453	8.568	VV	1785	49317	0.97%	0.113%
69	8.631	8.568	8.720	VV	639	35360	0.70%	0.081%
70	8.741	8.720	8.781	VV	296	7037	0.14%	0.016%
71	9.120	9.100	9.200	VV	1824	71927	1.42%	0.165%
72	9.230	9.200	9.284	VV	1504	52800	1.04%	0.121%
73	9.317	9.284	9.388	VV	2615	64281	1.27%	0.147%
74	9.403	9.388	9.458	VV	591	18250	0.36%	0.042%
75	9.470	9.458	9.491	VV	432	7708	0.15%	0.018%
76	9.507	9.491	9.586	VV	416	16554	0.33%	0.038%
77	9.713	9.586	9.753	VV	686	37378	0.74%	0.086%
78	9.775	9.753	9.800	VV	490	11560	0.23%	0.026%
79	9.821	9.800	9.864	VV	516	13582	0.27%	0.031%
80	9.870	9.864	9.905	VV	302	5394	0.11%	0.012%
81	9.935	9.905	9.956	VV	323	5817	0.11%	0.013%
82	9.996	9.956	10.078	VV	4423	147250	2.90%	0.337%
83	10.097	10.078	10.185	VV	2448	53700	1.06%	0.123%
84	10.207	10.185	10.243	VV	350	9673	0.19%	0.022%
85	10.268	10.243	10.311	VV	292	7144	0.14%	0.016%
86	10.329	10.311	10.354	VV	169	3655	0.07%	0.008%
87	10.371	10.354	10.398	VV	174	2595	0.05%	0.006%
88	10.484	10.398	10.524	VV	709	20484	0.40%	0.047%
89	10.536	10.524	10.557	VV	266	4566	0.09%	0.010%

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90	10.578	10.557	10.611	VV	325	7144	0.14%	0.016%
91	10.630	10.611	10.688	VV	377	6280	0.12%	0.014%
92	10.760	10.688	10.783	VV	444	11743	0.23%	0.027%
93	10.836	10.783	10.876	VV	1748	32170	0.63%	0.074%
94	10.906	10.876	11.004	VV	703	21112	0.42%	0.048%
95	11.057	11.004	11.098	VV	540	10281	0.20%	0.024%
96	11.131	11.098	11.193	VV	1205	44636	0.88%	0.102%
97	11.218	11.193	11.384	VV	726	39087	0.77%	0.089%
98	11.470	11.384	11.501	PV	1659	25636	0.50%	0.059%
99	11.537	11.501	11.604	VV	2035	37499	0.74%	0.086%
100	11.630	11.604	11.668	VV	716	12367	0.24%	0.028%
101	11.703	11.668	11.718	PV	428	4830	0.10%	0.011%
102	11.734	11.718	11.753	VV	413	4157	0.08%	0.010%
103	11.781	11.753	11.811	VV	1211	15298	0.30%	0.035%
104	11.859	11.811	12.007	VV	453661	5080258	100.00%	11.623%
105	12.028	12.007	12.045	VV	1108	16157	0.32%	0.037%
106	12.061	12.045	12.128	VV	908	22133	0.44%	0.051%
107	12.144	12.128	12.174	VV	303	5184	0.10%	0.012%
108	12.206	12.174	12.238	VV	1303	19380	0.38%	0.044%
109	12.256	12.238	12.291	VV	237	4751	0.09%	0.011%
110	12.329	12.291	12.344	PV	1305	25710	0.51%	0.059%
111	12.376	12.344	12.438	VV	4435	118886	2.34%	0.272%
112	12.463	12.438	12.641	VV	33977	546831	10.76%	1.251%
113	12.659	12.641	12.748	VV	765	29484	0.58%	0.067%
114	12.786	12.748	12.824	VV	895	26319	0.52%	0.060%
115	12.846	12.824	12.904	VV	1717	31970	0.63%	0.073%
116	12.934	12.904	13.034	VV	3740	77493	1.53%	0.177%
117	13.115	13.034	13.171	PV	888	23752	0.47%	0.054%
118	13.230	13.171	13.261	VV	3613	70648	1.39%	0.162%
119	13.292	13.261	13.430	VV	326372	3981760	78.38%	9.110%
120	13.456	13.430	13.476	VV	1338	21887	0.43%	0.050%
121	13.539	13.476	13.641	VV	1556	92422	1.82%	0.211%
122	13.695	13.641	13.784	VV	3581	87215	1.72%	0.200%
123	13.836	13.784	13.921	VV	642	21633	0.43%	0.049%
124	13.990	13.921	14.016	PV	939	24609	0.48%	0.056%
125	14.041	14.016	14.125	VV	2320	52615	1.04%	0.120%
126	14.145	14.125	14.181	VV	408	8357	0.16%	0.019%
127	14.199	14.181	14.218	VV	241	2963	0.06%	0.007%
128	14.272	14.218	14.324	PV	238	6826	0.13%	0.016%
129	14.441	14.324	14.459	PV	1002	22504	0.44%	0.051%
130	14.477	14.459	14.508	VV	1070	19492	0.38%	0.045%
131	14.551	14.508	14.578	VV	766	17592	0.35%	0.040%
132	14.603	14.578	14.628	VV	1575	22085	0.43%	0.051%
133	14.665	14.628	14.688	VV	1251	25106	0.49%	0.057%
134	14.710	14.688	14.736	VV	432	10557	0.21%	0.024%
135	14.805	14.736	14.841	VV	663	21684	0.43%	0.050%
136	14.855	14.841	14.877	VV	415	6523	0.13%	0.015%
137	14.899	14.877	14.938	VV	240	6751	0.13%	0.015%
138	14.996	14.938	15.043	VV	418	16724	0.33%	0.038%
139	15.143	15.043	15.167	PV	2944	76499	1.51%	0.175%
140	15.191	15.167	15.254	VV	2801	60821	1.20%	0.139%
141	15.273	15.254	15.300	VV	603	11934	0.23%	0.027%

					rteres			
142	15.330	15.300	15.371	VV	371	10099	0.20%	0.023%
143	15.525	15.371	15.602	PV	16154	315277	6.21%	0.721%
144	15.621	15.602	15.637	VV	883	14527	0.29%	0.033%
145	15.662	15.637	15.701	VV	2139	35904	0.71%	0.082%
146	15.731	15.701	15.767	VV	6644	95522	1.88%	0.219%
147	15.792	15.767	15.823	VV	625	10605	0.21%	0.024%
148	15.982	15.823	16.008	VV	329	16031	0.32%	0.037%
149	16.048	16.008	16.087	PV	805	19104	0.38%	0.044%
150	16.163	16.087	16.198	VV	2853	61903	1.22%	0.142%
151	16.230	16.198	16.268	VV	1766	27584	0.54%	0.063%
152	16.385	16.268	16.401	VV	342	15352	0.30%	0.035%
153	16.456	16.401	16.478	PV	771	16168	0.32%	0.037%
154	16.540	16.478	16.591	VV	3741	86438	1.70%	0.198%
155	16.644	16.591	16.666	VV	3909	72586	1.43%	0.166%
156	16.721	16.666	16.758	VV	5269	126862	2.50%	0.290%
157	16.803	16.758	16.824	VV	978	31163	0.61%	0.071%
158	16.849	16.824	16.907	VV	641	18170	0.36%	0.042%
159	16.952	16.907	17.070	VV	574	10995	0.22%	0.025%
160	17.006	16.970	17.048	VV	1266	28175	0.55%	0.064%
161	17.110	17.048	17.141	VV	6856	149734	2.95%	0.343%
162	17.191	17.141	17.243	VV	4841	108692	2.14%	0.249%
163	17.353	17.243	17.370	PV	879	35303	0.69%	0.081%
164	17.482	17.370	17.534	VV	5043	183855	3.62%	0.421%
165	17.560	17.534	17.609	VV	12839	205498	4.05%	0.470%
166	17.636	17.609	17.701	VV	2425	74825	1.47%	0.171%
167	17.735	17.701	17.754	VV	1536	30309	0.60%	0.069%
168	17.771	17.754	17.808	VV	1032	20247	0.40%	0.046%
169	17.997	17.808	18.048	PV	9640	324610	6.39%	0.743%
170	18.088	18.048	18.114	VV	11744	215057	4.23%	0.492%
171	18.139	18.114	18.210	VV	5477	195651	3.85%	0.448%
172	18.227	18.210	18.251	VV	2712	56003	1.10%	0.128%
173	18.359	18.251	18.389	VV	12821	447303	8.80%	1.023%
174	18.419	18.389	18.451	VV	20260	360013	7.09%	0.824%
175	18.505	18.451	18.557	VV	5538	241852	4.76%	0.553%
176	18.710	18.557	18.755	VV	3978	357796	7.04%	0.819%
177	18.826	18.755	18.868	VV	12020	405727	7.99%	0.928%
178	18.930	18.868	18.995	VV	19447	632332	12.45%	1.447%
179	19.020	18.995	19.048	VV	10537	226407	4.46%	0.518%
180	19.185	19.048	19.204	VV	15184	698555	13.75%	1.598%
181	19.226	19.204	19.280	VV	15421	500991	9.86%	1.146%
182	19.321	19.280	19.344	VV	9264	317866	6.26%	0.727%
183	19.361	19.344	19.391	VV	7993	217725	4.29%	0.498%
184	19.442	19.391	19.474	VV	9657	424826	8.36%	0.972%
185	19.614	19.474	19.653	VV	12412	1015108	19.98%	2.323%
186	19.680	19.653	19.700	VV	15093	331920	6.53%	0.759%
187	19.722	19.700	19.751	VV	16689	386879	7.62%	0.885%
188	19.830	19.751	19.850	VV	12342	650120	12.80%	1.487%
189	19.975	19.850	20.068	VV	16741	1782121	35.08%	4.077%
190	20.158	20.068	20.175	VV	14820	880597	17.33%	2.015%
191	20.254	20.175	20.284	VV	18294	1062458	20.91%	2.431%
192	20.351	20.284	20.395	VV	21142	1226550	24.14%	2.806%
193	20.418	20.395	20.444	VV	20109	556939	10.96%	1.274%
194	20.469	20.444	20.486	VV	19835	481710	9.48%	1.102%

					rteres			
195	20.581	20.486	20.638	VV	22888	1896540	37.33%	4.339%
196	20.706	20.638	20.728	VV	23948	1181473	23.26%	2.703%
197	20.753	20.728	20.788	VV	22459	794060	15.63%	1.817%
198	20.856	20.788	20.901	VV	22516	1512528	29.77%	3.461%
199	20.917	20.901	21.001	VV	22140	1249625	24.60%	2.859%
200	21.075	21.001	21.113	VV	22377	1366484	26.90%	3.126%
201	21.152	21.113	21.203	VV	19625	1034211	20.36%	2.366%
202	21.224	21.203	21.248	VV	18297	475199	9.35%	1.087%
203	21.273	21.248	21.370	VV	17436	1196377	23.55%	2.737%
204	21.404	21.370	21.454	VV	15120	732344	14.42%	1.676%
205	21.492	21.454	21.541	VV	15089	723060	14.23%	1.654%
206	21.591	21.541	21.663	VV	12818	865306	17.03%	1.980%
207	21.792	21.663	21.841	VV	10540	1100314	21.66%	2.517%
208	21.856	21.841	21.941	VV	9576	498463	9.81%	1.140%
209	21.961	21.941	22.011	VV	7203	266478	5.25%	0.610%
210	22.119	22.011	22.144	VV	6582	485743	9.56%	1.111%
211	22.167	22.144	22.358	VV	6265	373653	7.36%	0.855%
Sum of corrected areas:						43706859		

Aliphatic EPH 100824.M Mon Oct 14 05:25:22 2024



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC100224AL

AreaCount

Parameter Range	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.D	
Aliphatic C9-C12	36157754.000	18468554.000	7796622.000	3912320.000	2066528.000	
Aliphatic C12-C16	24671572.000	12642565.000	5319639.000	2676246.000	1382016.000	
Aliphatic C16-C21	36539622.000	18852548.000	8005327.000	4100822.000	2096729.000	
Aliphatic C21-C28	47235980.000	24590379.000	10215208.000	5219473.000	2697991.000	
Aliphatic C28-C40	57341685.000	29822245.000	12674884.000	6440179.000	3544258.000	
Aliphatic EPH	201946613.000	104376291.000	44011680.000	22349040.000	11787522.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	128354.4879996	5.284				
Aliphatic C12-C16	130957.677	4.567				
Aliphatic C16-C21	131476.1019996	5.732				
Aliphatic C21-C28	126823.664	5.15				
Aliphatic C28-C40	105215.848333	8.211				
Aliphatic EPH	121110.9372216	6.036				

Concentration

Parameter Range	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.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	FC067312.D	FC067313.D	FC067314.D	FC067315.D	FC067316.D	
Aliphatic C9-C12	120525.846666	123123.693333	129943.700000	130410.666666	137768.533333	
Aliphatic C12-C16	123357.860000	126425.650000	132990.975000	133812.300000	138201.600000	
Aliphatic C16-C21	121798.740000	125683.653333	133422.116666	136694.066666	139781.933333	

Initial Calibration Report for SequenceID : FC100224AL

Aliphatic C21-C28	118089.950000	122951.895000	127690.100000	130486.825000	134899.550000	
Aliphatic C28-C40	95569.475000	99407.483333	105624.033333	107336.316666	118141.933333	
Aliphatic EPH	112192.562777	115973.656666	122254.666666	124161.333333	130972.466666	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F100224AL\
 Data File : FC067312.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 10:32
 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: Oct 01 09:09:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:07:31 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)	11.507	14031279	90.846 ug/ml
Spiked Amount 50.000		Recovery =	181.69%
12) S 1-chlorooctadecane (S...	12.944	10549566	91.667 ug/ml
Spiked Amount 50.000		Recovery =	183.33%
Target Compounds			
1) T n-Nonane (C9)	3.274	11861469	92.598 ug/ml
2) T n-Decane (C10)	4.341	12068578	92.595 ug/ml
3) T A~Naphthalene (C11.7)	5.920	13362934	92.860 ug/ml
4) T n-Dodecane (C12)	6.359	12227707	93.059 ug/ml
5) T A~2-methylnaphthalene...	6.977	13024556	93.287 ug/ml
6) T n-Tetradecane (C14)	8.152	12180763	93.109 ug/ml
7) T n-Hexadecane (C16)	9.752	12490809	92.415 ug/ml
8) T n-Octadecane (C18)	11.195	12572452	91.327 ug/ml
10) T n-Eicosane (C20)	12.501	12084501	91.351 ug/ml
11) T n-Heneicosane (C21)	13.112	11882669	91.183 ug/ml
13) T n-Docosane (C22)	13.698	11869877	91.916 ug/ml
14) T n-Tetracosane (C24)	14.799	11932581	92.694 ug/ml
15) T n-Hexacosane (C26)	15.819	11803866	93.014 ug/ml
16) T n-Octacosane (C28)	16.768	11629656	92.309 ug/ml
17) T n-Tricontane (C30)	17.655	11716937	91.007 ug/ml
18) T n-Dotriacontane (C32)	18.486	11186042	89.566 ug/ml
19) T n-Tetratriacontane (C34)	19.267	9833987	89.675 ug/ml
20) T n-Hexatriacontane (C36)	20.005	8551618	89.685 ug/ml
21) T n-Octatriacontane (C38)	20.730	8143888	91.977 ug/ml
22) T n-Tetracontane (C40)	21.618	7909213	91.385 ug/ml

(f)=RT Delta > 1/2 Window

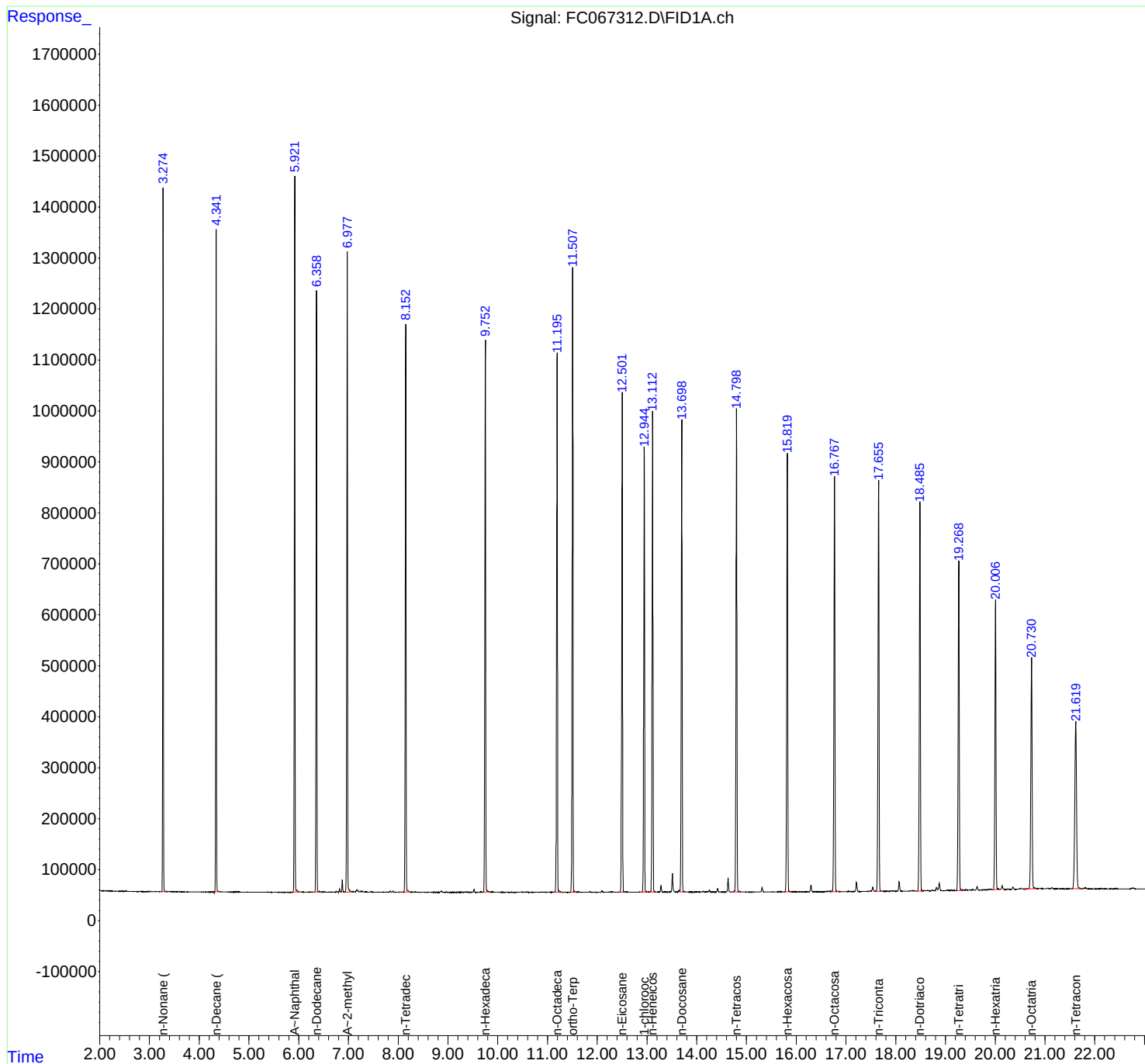
(m)=manual int.

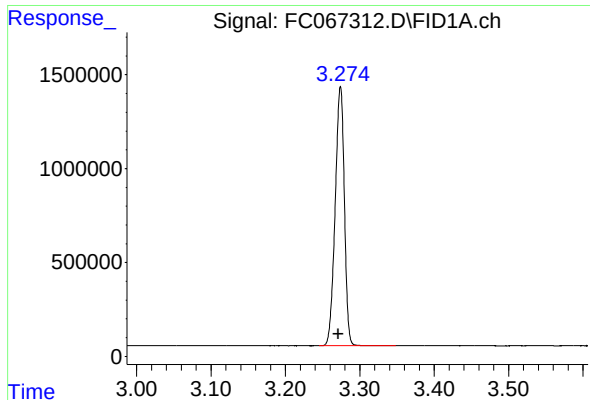
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067312.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 10:32
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 01 09:09:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:07:31 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)

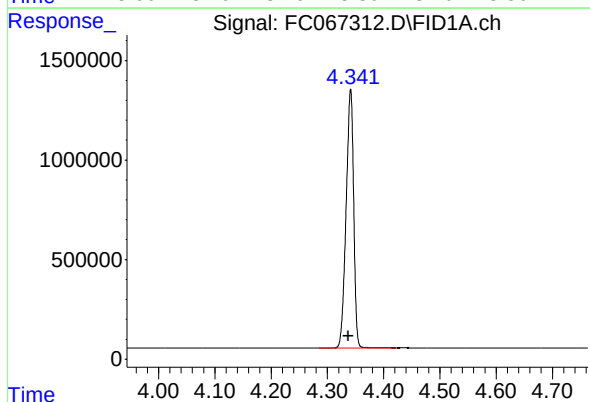
R.T.: 3.274 min
Delta R.T.: 0.003 min
Response: 11861469
Conc: 92.60 ug/ml

Instrument :

FID_C

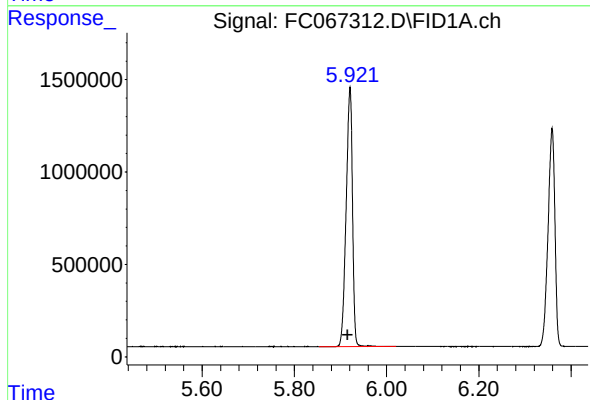
ClientSampleId :

100 PPM ALIPHATIC HC STD1



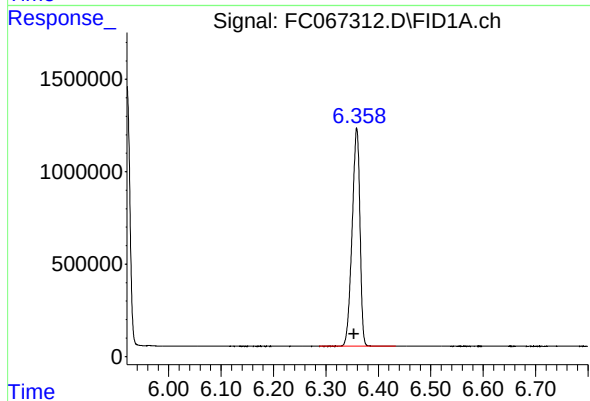
#2 n-Decane (C10)

R.T.: 4.341 min
Delta R.T.: 0.004 min
Response: 12068578
Conc: 92.59 ug/ml



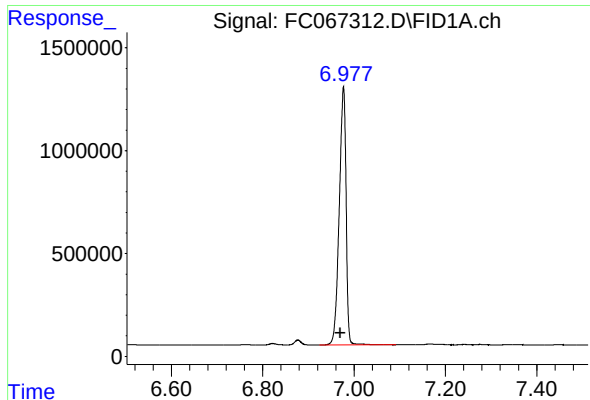
#3 A~Naphthalene (C11.7)

R.T.: 5.920 min
Delta R.T.: 0.005 min
Response: 13362934
Conc: 92.86 ug/ml



#4 n-Dodecane (C12)

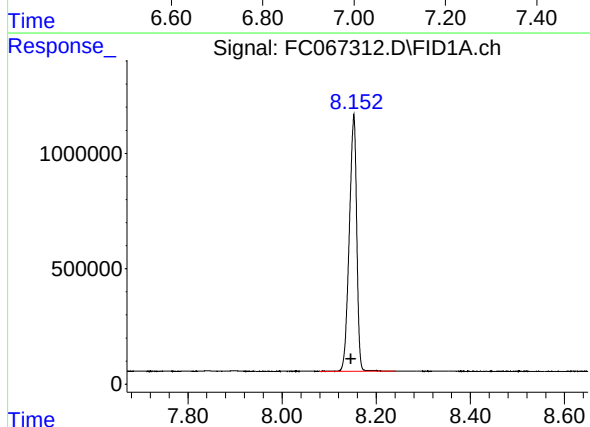
R.T.: 6.359 min
Delta R.T.: 0.005 min
Response: 12227707
Conc: 93.06 ug/ml



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

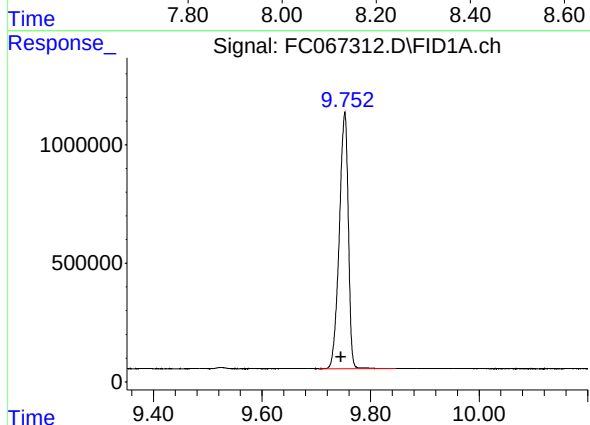
R.T.: 6.977 min
Delta R.T.: 0.007 min
Response: 13024556
Conc: 93.29 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



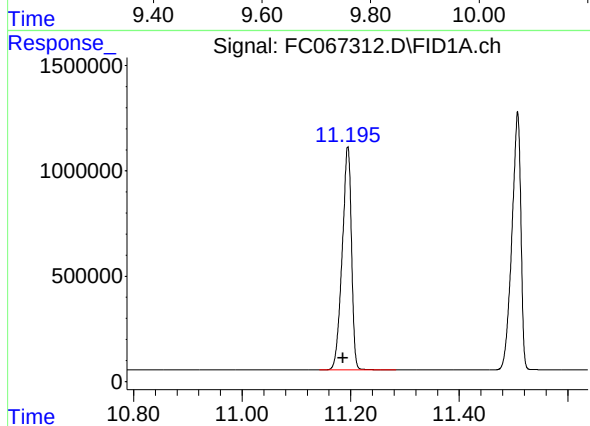
#6 n-Tetradecane (C14)

R.T.: 8.152 min
Delta R.T.: 0.006 min
Response: 12180763
Conc: 93.11 ug/ml



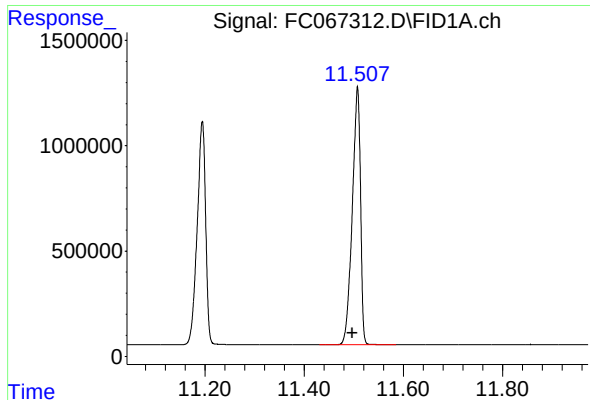
#7 n-Hexadecane (C16)

R.T.: 9.752 min
Delta R.T.: 0.007 min
Response: 12490809
Conc: 92.42 ug/ml



#8 n-Octadecane (C18)

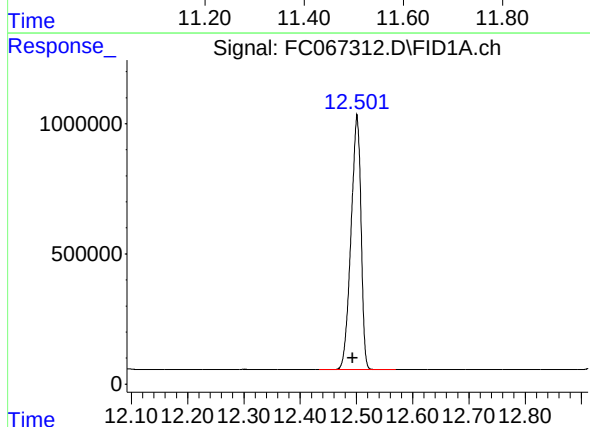
R.T.: 11.195 min
Delta R.T.: 0.008 min
Response: 12572452
Conc: 91.33 ug/ml



#9 ortho-Terphenyl (SURR)

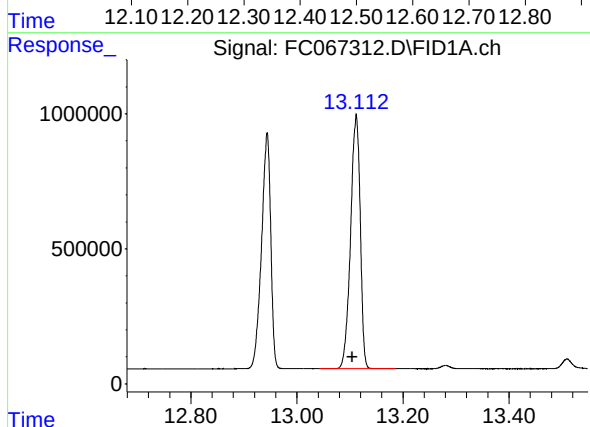
R.T.: 11.507 min
Delta R.T.: 0.010 min
Response: 14031279
Conc: 90.85 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



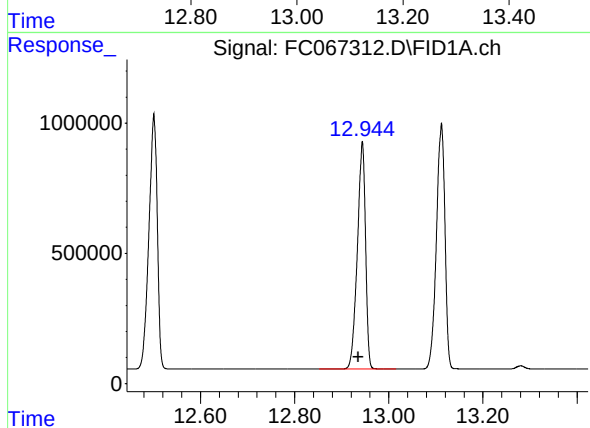
#10 n-Eicosane (C20)

R.T.: 12.501 min
Delta R.T.: 0.007 min
Response: 12084501
Conc: 91.35 ug/ml



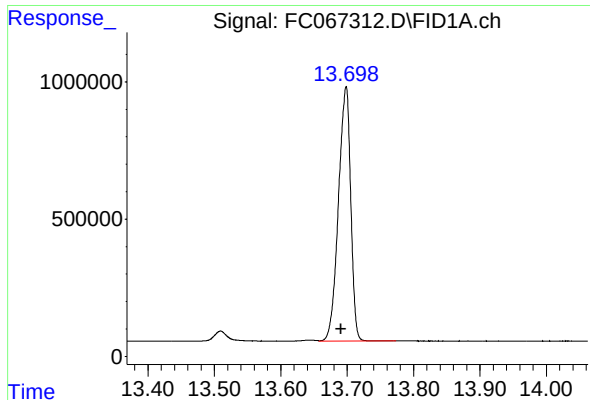
#11 n-Heneicosane (C21)

R.T.: 13.112 min
Delta R.T.: 0.007 min
Response: 11882669
Conc: 91.18 ug/ml



#12 1-chlorooctadecane (SURR)

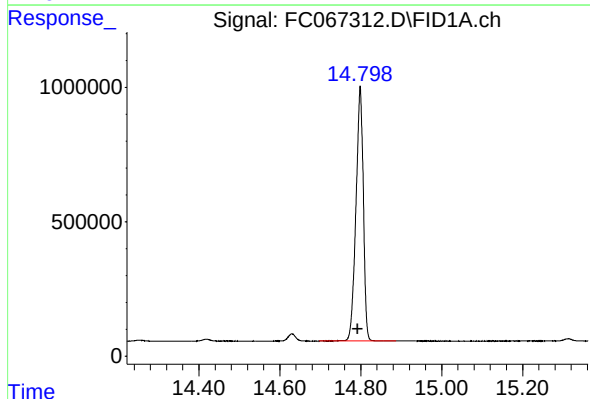
R.T.: 12.944 min
Delta R.T.: 0.008 min
Response: 10549566
Conc: 91.67 ug/ml



#13 n-Docosane (C22)

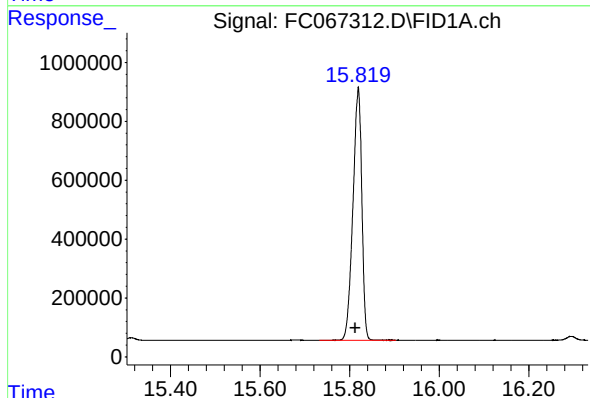
R.T.: 13.698 min
Delta R.T.: 0.007 min
Response: 11869877
Conc: 91.92 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



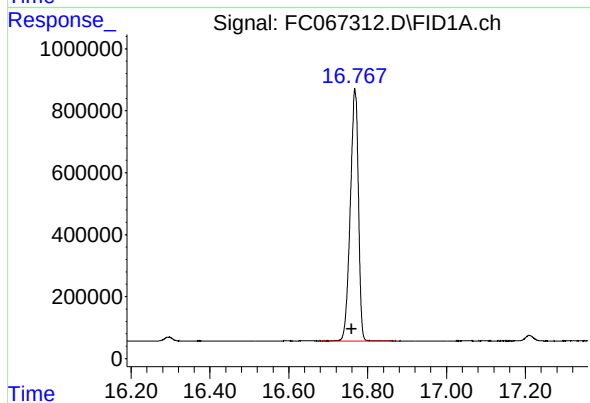
#14 n-Tetracosane (C24)

R.T.: 14.799 min
Delta R.T.: 0.007 min
Response: 11932581
Conc: 92.69 ug/ml



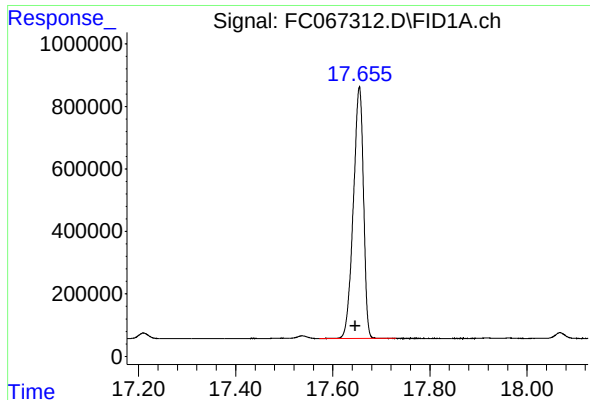
#15 n-Hexacosane (C26)

R.T.: 15.819 min
Delta R.T.: 0.007 min
Response: 11803866
Conc: 93.01 ug/ml



#16 n-Octacosane (C28)

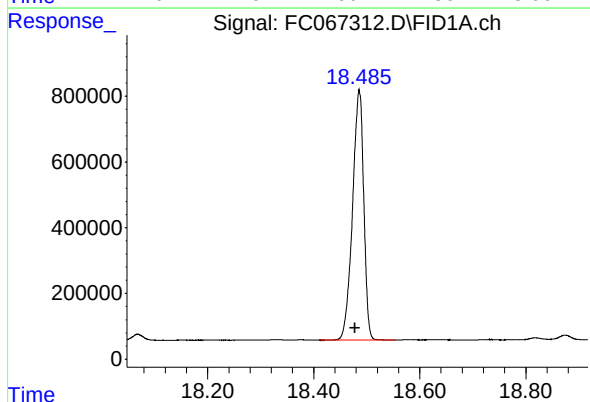
R.T.: 16.768 min
Delta R.T.: 0.008 min
Response: 11629656
Conc: 92.31 ug/ml



#17 n-Tricontane (C30)

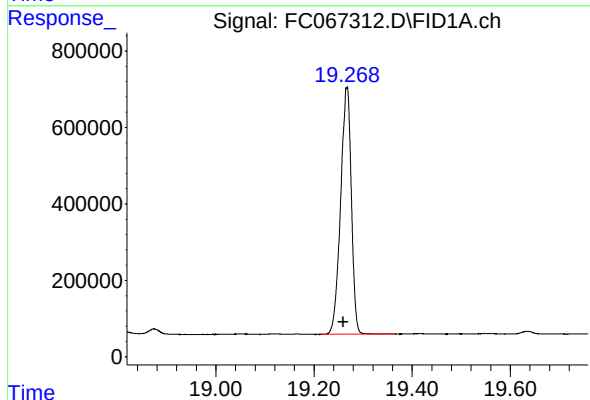
R.T.: 17.655 min
Delta R.T.: 0.009 min
Response: 11716937
Conc: 91.01 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



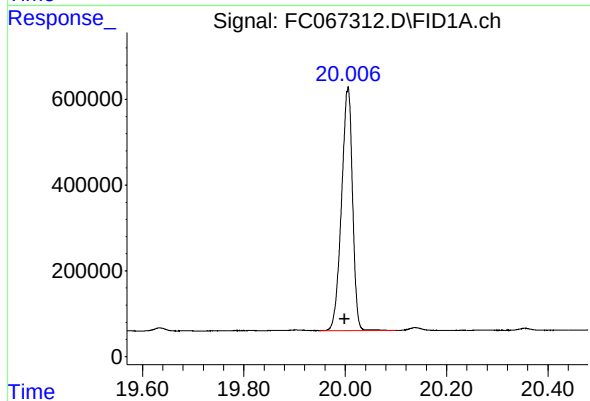
#18 n-Dotriacontane (C32)

R.T.: 18.486 min
Delta R.T.: 0.008 min
Response: 11186042
Conc: 89.57 ug/ml



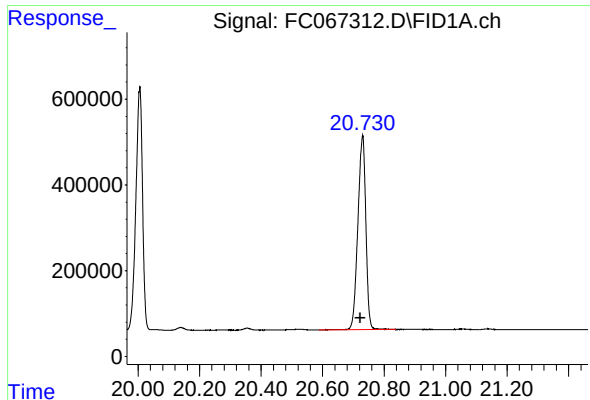
#19 n-Tetratriacontane (C34)

R.T.: 19.267 min
Delta R.T.: 0.007 min
Response: 9833987
Conc: 89.67 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.005 min
Delta R.T.: 0.006 min
Response: 8551618
Conc: 89.68 ug/ml



#21 n-Octatriacontane (C38)

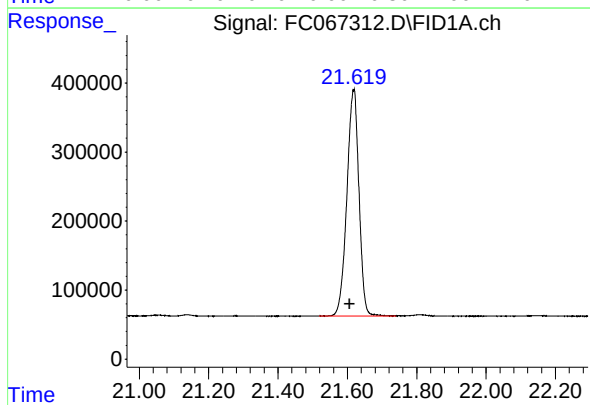
R.T.: 20.730 min
Delta R.T.: 0.007 min
Response: 8143888
Conc: 91.98 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.618 min
Delta R.T.: 0.011 min
Response: 7909213
Conc: 91.39 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067312.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 10:32
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 100224.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	3.348	BB	1383198	11861469	84.54%	4.690%
2	4.341	4.285	4.422	BB	1311158	12068578	86.01%	4.772%
3	5.920	5.853	6.020	BB	1395892	13362934	95.24%	5.284%
4	6.359	6.287	6.433	BB	1182095	12227707	87.15%	4.835%
5	6.977	6.923	7.092	BV	1262404	13024556	92.83%	5.150%
6	8.152	8.078	8.242	BB	1106375	12180763	86.81%	4.816%
7	9.752	9.705	9.847	BB	1075584	12490809	89.02%	4.939%
8	11.195	11.142	11.283	BB	1062471	12572452	89.60%	4.971%
9	11.507	11.430	11.585	BB	1222706	14031279	100.00%	5.548%
10	12.501	12.433	12.570	BB	971541	12084501	86.13%	4.778%
11	12.944	12.852	13.015	BB	876626	10549566	75.19%	4.171%
12	13.112	13.042	13.187	BB	943769	11882669	84.69%	4.698%
13	13.698	13.658	13.773	VB	931064	11869877	84.60%	4.693%
14	14.799	14.697	14.887	BB	947814	11932581	85.04%	4.718%
15	15.819	15.732	15.903	BB	851235	11803866	84.13%	4.667%
16	16.768	16.677	16.872	BB	807852	11629656	82.88%	4.598%
17	17.655	17.572	17.730	PB	806791	11716937	83.51%	4.633%
18	18.486	18.410	18.555	BV	761825	11186042	79.72%	4.423%
19	19.267	19.210	19.367	BB	643849	9833987	70.09%	3.888%
20	20.005	19.948	20.100	BB	565289	8551618	60.95%	3.381%
21	20.730	20.588	20.838	BV	454057	8143888	58.04%	3.220%
22	21.618	21.518	21.740	BB	326286	7909213	56.37%	3.127%
Sum of corrected areas:						252914944		

Aliphatic EPH 100224.M Tue Oct 01 09:20:12 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
 Data File : FC067313.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 11:10
 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: Oct 01 09:10:44 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:07:31 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)	11.501	7231579	49.067 ug/ml
Spiked Amount 50.000		Recovery =	98.13%
12) S 1-chlorooctadecane (S...	12.939	5426500	49.202 ug/ml
Spiked Amount 50.000		Recovery =	98.40%
Target Compounds			
1) T n-Nonane (C9)	3.272	6059731	49.124 ug/ml
2) T n-Decane (C10)	4.338	6163543	49.107 ug/ml
3) T A~Naphthalene (C11.7)	5.917	6821781	49.160 ug/ml
4) T n-Dodecane (C12)	6.355	6245280	49.239 ug/ml
5) T A~2-methylnaphthalene...	6.972	6641948	49.224 ug/ml
6) T n-Tetradecane (C14)	8.149	6219770	49.240 ug/ml
7) T n-Hexadecane (C16)	9.748	6422795	49.393 ug/ml
8) T n-Octadecane (C18)	11.188	6493088	49.304 ug/ml
10) T n-Eicosane (C20)	12.497	6235508	49.267 ug/ml
11) T n-Heneicosane (C21)	13.107	6123952	49.160 ug/ml
13) T n-Docosane (C22)	13.693	6132673	49.489 ug/ml
14) T n-Tetracosane (C24)	14.795	6211203	50.079 ug/ml
15) T n-Hexacosane (C26)	15.814	6151165	50.225 ug/ml
16) T n-Octacosane (C28)	16.763	6095338	50.316 ug/ml
17) T n-Tricontane (C30)	17.650	6178045	50.245 ug/ml
18) T n-Dotriacontane (C32)	18.481	5889852	49.755 ug/ml
19) T n-Tetratriacontane (C34)	19.263	5143313	49.454 ug/ml
20) T n-Hexatriacontane (C36)	20.001	4380994	48.444 ug/ml
21) T n-Octatriacontane (C38)	20.724	4146667	48.790 ug/ml
22) T n-Tetracontane (C40)	21.611	4083374	49.304 ug/ml

(f)=RT Delta > 1/2 Window

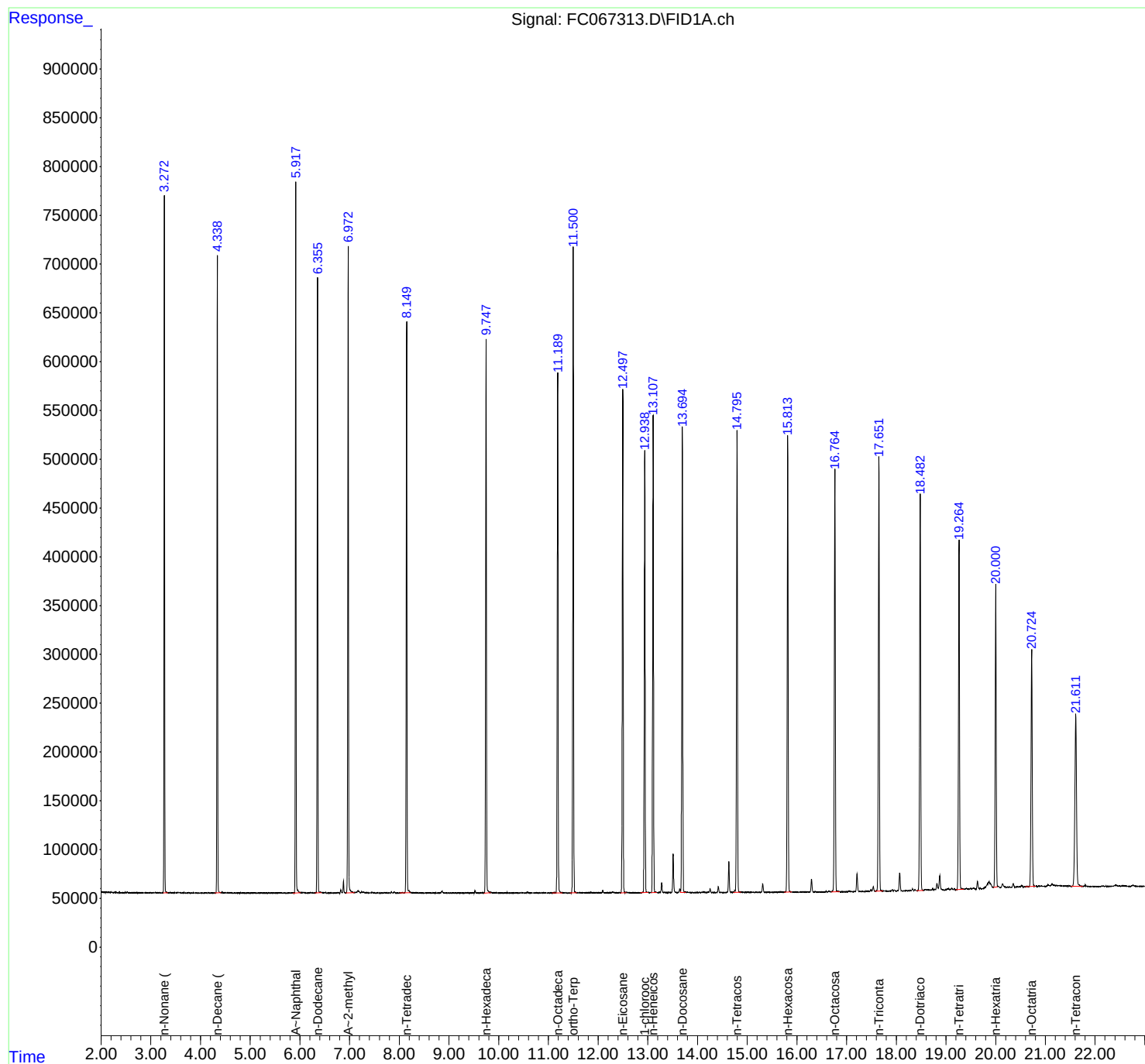
(m)=manual int.

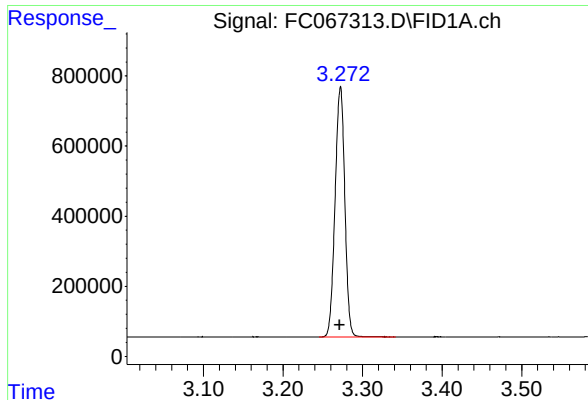
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067313.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 11:10
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Oct 01 09:10:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:07:31 2024
Response via : Initial Calibration
Integrator: ChemStation

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

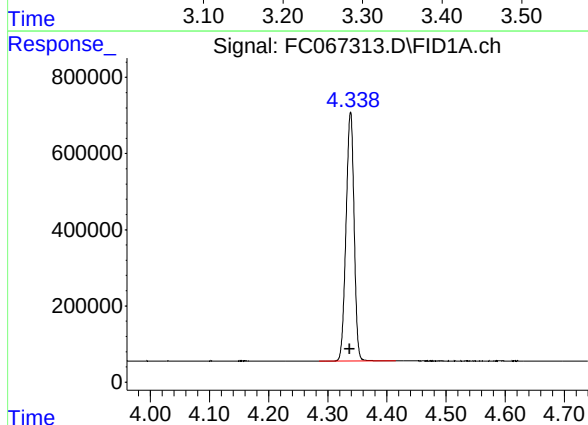




#1 n-Nonane (C9)

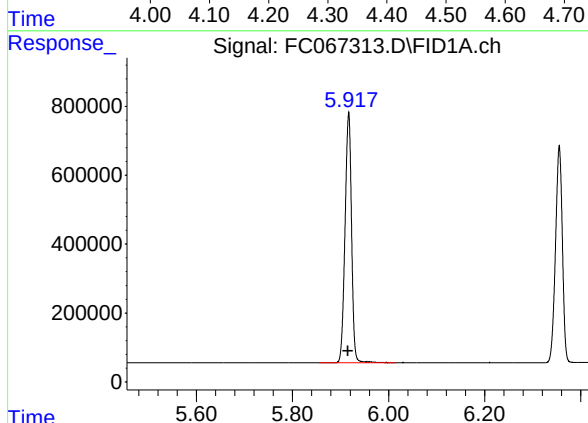
R.T.: 3.272 min
Delta R.T.: 0.001 min
Response: 6059731
Conc: 49.12 ug/ml

Instrument : FID_C
ClientSampleId : 50 PPM ALIPHATIC HC STD2



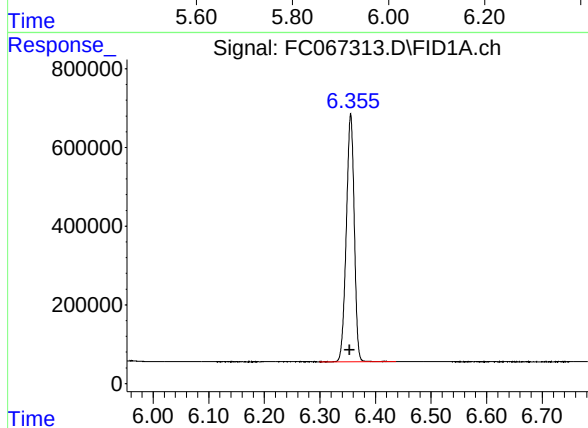
#2 n-Decane (C10)

R.T.: 4.338 min
Delta R.T.: 0.001 min
Response: 6163543
Conc: 49.11 ug/ml



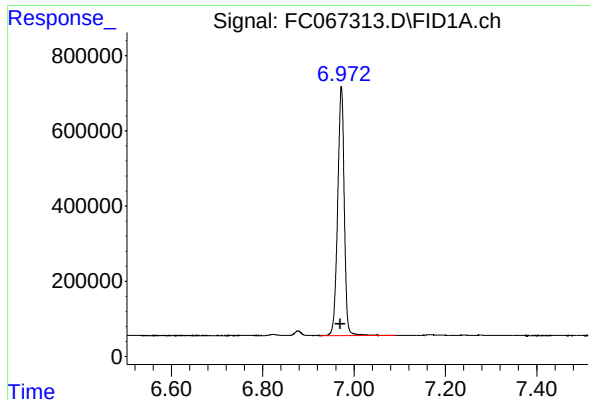
#3 A~Naphthalene (C11.7)

R.T.: 5.917 min
Delta R.T.: 0.002 min
Response: 6821781
Conc: 49.16 ug/ml



#4 n-Dodecane (C12)

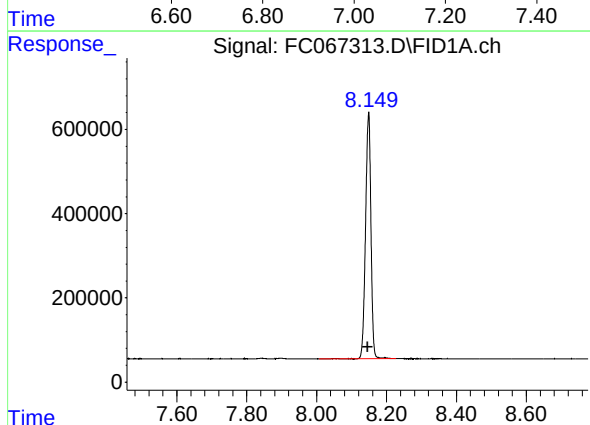
R.T.: 6.355 min
Delta R.T.: 0.002 min
Response: 6245280
Conc: 49.24 ug/ml



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

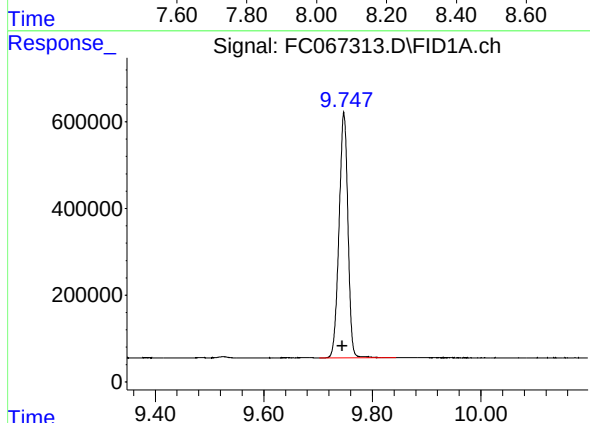
R.T.: 6.972 min
Delta R.T.: 0.002 min
Response: 6641948
Conc: 49.22 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



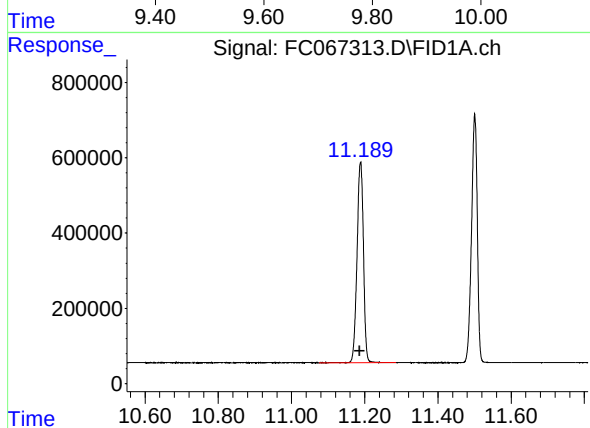
#6 n-Tetradecane (C14)

R.T.: 8.149 min
Delta R.T.: 0.002 min
Response: 6219770
Conc: 49.24 ug/ml



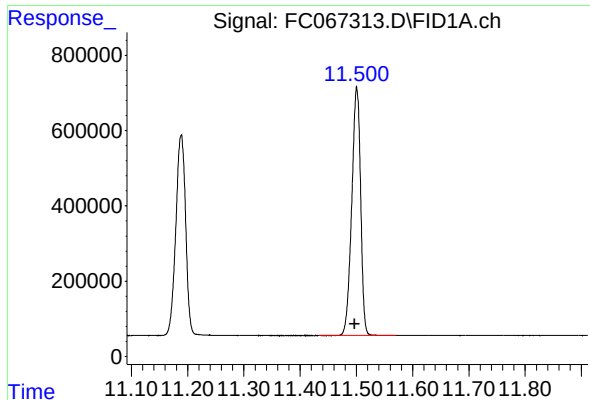
#7 n-Hexadecane (C16)

R.T.: 9.748 min
Delta R.T.: 0.003 min
Response: 6422795
Conc: 49.39 ug/ml



#8 n-Octadecane (C18)

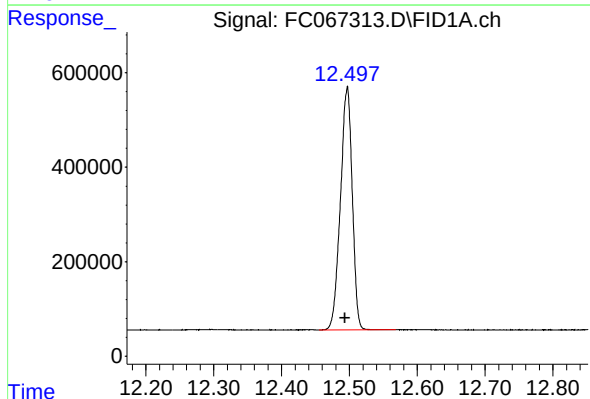
R.T.: 11.188 min
Delta R.T.: 0.002 min
Response: 6493088
Conc: 49.30 ug/ml



#9 ortho-Terphenyl (SURR)

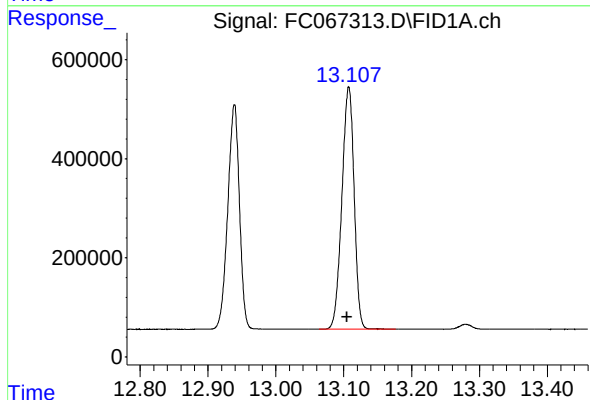
R.T.: 11.501 min
Delta R.T.: 0.004 min
Response: 7231579
Conc: 49.07 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



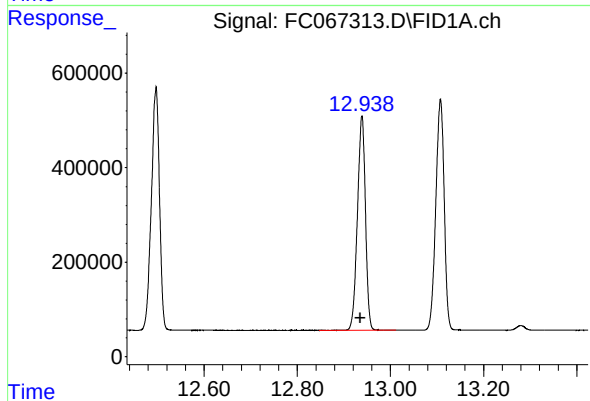
#10 n-Eicosane (C20)

R.T.: 12.497 min
Delta R.T.: 0.003 min
Response: 6235508
Conc: 49.27 ug/ml



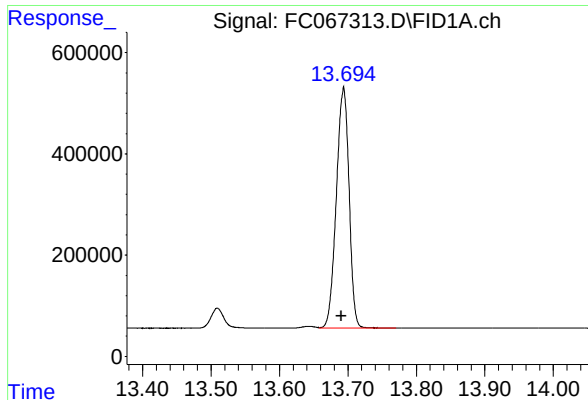
#11 n-Heneicosane (C21)

R.T.: 13.107 min
Delta R.T.: 0.003 min
Response: 6123952
Conc: 49.16 ug/ml



#12 1-chlorooctadecane (SURR)

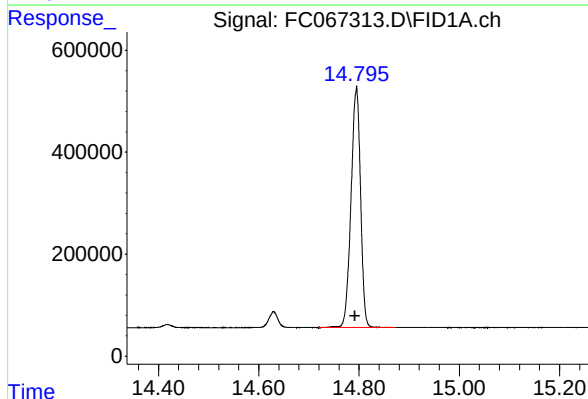
R.T.: 12.939 min
Delta R.T.: 0.003 min
Response: 5426500
Conc: 49.20 ug/ml



#13 n-Docosane (C22)

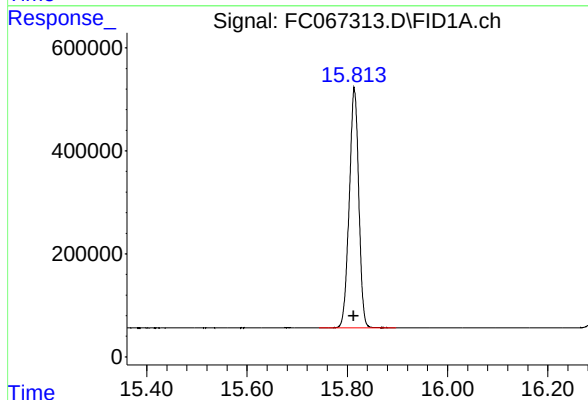
R.T.: 13.693 min
Delta R.T.: 0.003 min
Response: 6132673
Conc: 49.49 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



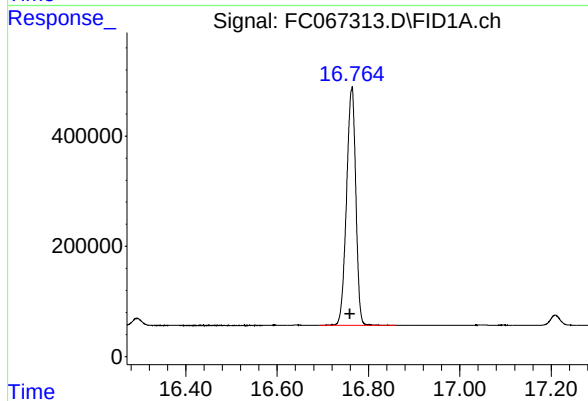
#14 n-Tetracosane (C24)

R.T.: 14.795 min
Delta R.T.: 0.003 min
Response: 6211203
Conc: 50.08 ug/ml



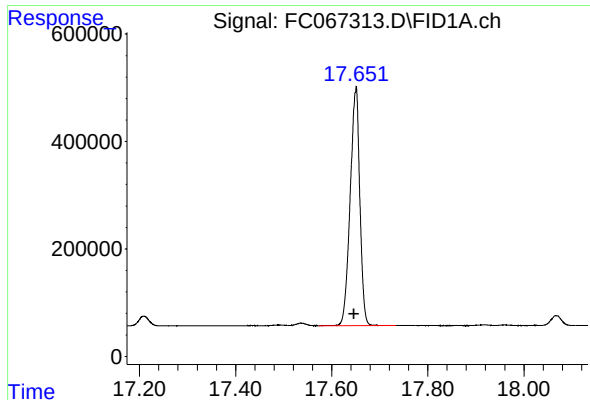
#15 n-Hexacosane (C26)

R.T.: 15.814 min
Delta R.T.: 0.002 min
Response: 6151165
Conc: 50.23 ug/ml



#16 n-Octacosane (C28)

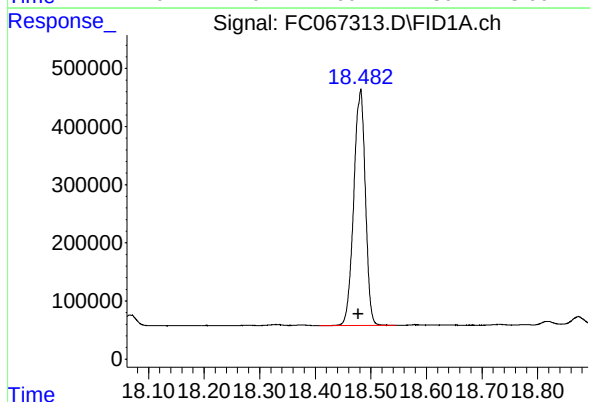
R.T.: 16.763 min
Delta R.T.: 0.004 min
Response: 6095338
Conc: 50.32 ug/ml



#17 n-Tricontane (C30)

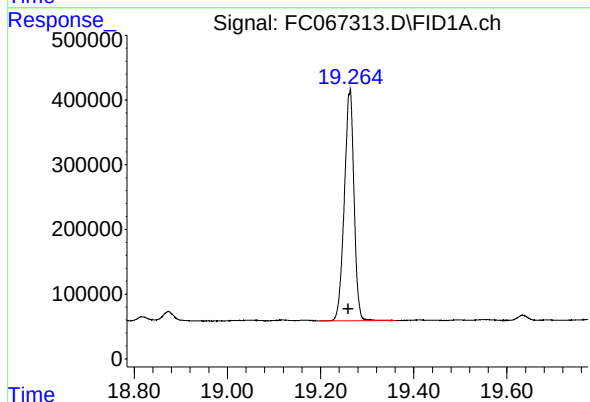
R.T.: 17.650 min
Delta R.T.: 0.004 min
Response: 6178045
Conc: 50.25 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



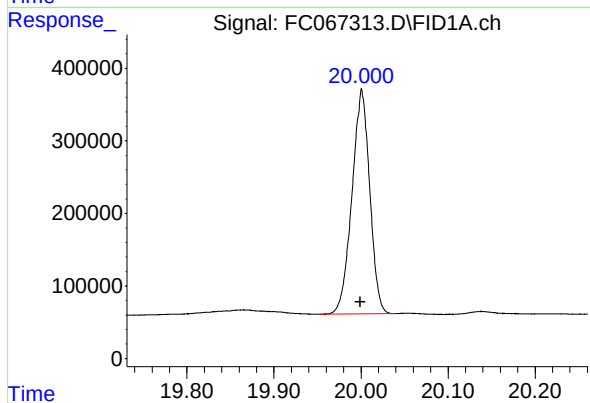
#18 n-Dotriacontane (C32)

R.T.: 18.481 min
Delta R.T.: 0.003 min
Response: 5889852
Conc: 49.76 ug/ml



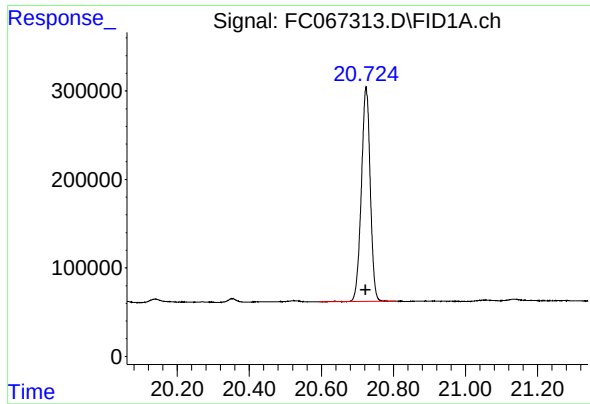
#19 n-Tetratriacontane (C34)

R.T.: 19.263 min
Delta R.T.: 0.003 min
Response: 5143313
Conc: 49.45 ug/ml



#20 n-Hexatriacontane (C36)

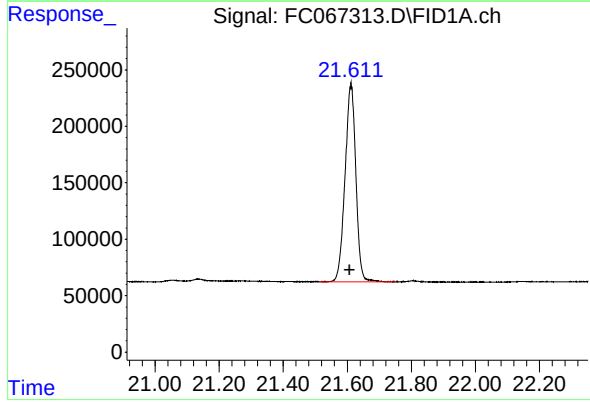
R.T.: 20.001 min
Delta R.T.: 0.002 min
Response: 4380994
Conc: 48.44 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.724 min
Delta R.T.: 0.001 min
Response: 4146667
Conc: 48.79 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.611 min
Delta R.T.: 0.004 min
Response: 4083374
Conc: 49.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067313.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 11:10
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 100224.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	3.342	BB	711248	6059731	83.80%	4.644%
2	4.338	4.285	4.415	BB	654161	6163543	85.23%	4.723%
3	5.917	5.855	6.015	BB	727635	6821781	94.33%	5.227%
4	6.355	6.299	6.437	BB	629757	6245280	86.36%	4.786%
5	6.972	6.924	7.092	BV	663765	6641948	91.85%	5.090%
6	8.149	8.007	8.227	BB	582329	6219770	86.01%	4.766%
7	9.748	9.702	9.844	BB	565794	6422795	88.82%	4.922%
8	11.189	11.075	11.285	BB	532485	6493088	89.79%	4.976%
9	11.501	11.434	11.570	BB	661071	7231579	100.00%	5.542%
10	12.497	12.455	12.569	BB	514506	6235508	86.23%	4.778%
11	12.939	12.847	13.012	BB	454745	5426500	75.04%	4.158%
12	13.107	13.064	13.177	BB	490056	6123952	84.68%	4.693%
13	13.693	13.658	13.770	VB	476110	6132673	84.80%	4.699%
14	14.795	14.720	14.874	BB	473209	6211203	85.89%	4.760%
15	15.814	15.744	15.897	BB	466583	6151165	85.06%	4.714%
16	16.763	16.692	16.860	BB	430820	6095338	84.29%	4.671%
17	17.650	17.574	17.734	PB	438958	6178045	85.43%	4.734%
18	18.481	18.407	18.545	BV	399853	5889852	81.45%	4.513%
19	19.263	19.197	19.362	BB	356265	5143313	71.12%	3.941%
20	20.001	19.952	20.040	PV	308867	4380994	60.58%	3.357%
21	20.724	20.594	20.807	BB	242057	4146667	57.34%	3.178%
22	21.611	21.512	21.752	BB	176788	4083374	56.47%	3.129%
Sum of corrected areas:						130498098		

Aliphatic EPH 100224.M Tue Oct 01 09:20:55 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
 Data File : FC067314.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 11:48
 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: Oct 01 09:08:18 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:07:31 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)	11.497	3089013	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	12.936	2301706	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.271	2561935	20.000 ug/ml
2) T n-Decane (C10)	4.337	2606750	20.000 ug/ml
3) T A~Naphthalene (C11.7)	5.915	2878074	20.000 ug/ml
4) T n-Dodecane (C12)	6.353	2627937	20.000 ug/ml
5) T A~2-methylnaphthalene...	6.970	2792361	20.000 ug/ml
6) T n-Tetradecane (C14)	8.146	2616449	20.000 ug/ml
7) T n-Hexadecane (C16)	9.745	2703190	20.000 ug/ml
8) T n-Octadecane (C18)	11.186	2753269	20.000 ug/ml
10) T n-Eicosane (C20)	12.493	2645737	20.000 ug/ml
11) T n-Heneicosane (C21)	13.105	2606321	20.000 ug/ml
13) T n-Docosane (C22)	13.690	2582773	20.000 ug/ml
14) T n-Tetracosane (C24)	14.792	2574621	20.000 ug/ml
15) T n-Hexacosane (C26)	15.813	2538087	20.000 ug/ml
16) T n-Octacosane (C28)	16.760	2519727	20.000 ug/ml
17) T n-Tricontane (C30)	17.646	2574944	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.478	2497831	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.260	2193263	20.000 ug/ml
20) T n-Hexatriacontane (C36)	19.999	1907034	20.000 ug/ml
21) T n-Octatriacontane (C38)	20.723	1770855	20.000 ug/ml
22) T n-Tetracontane (C40)	21.608	1730957	20.000 ug/ml

(f)=RT Delta > 1/2 Window

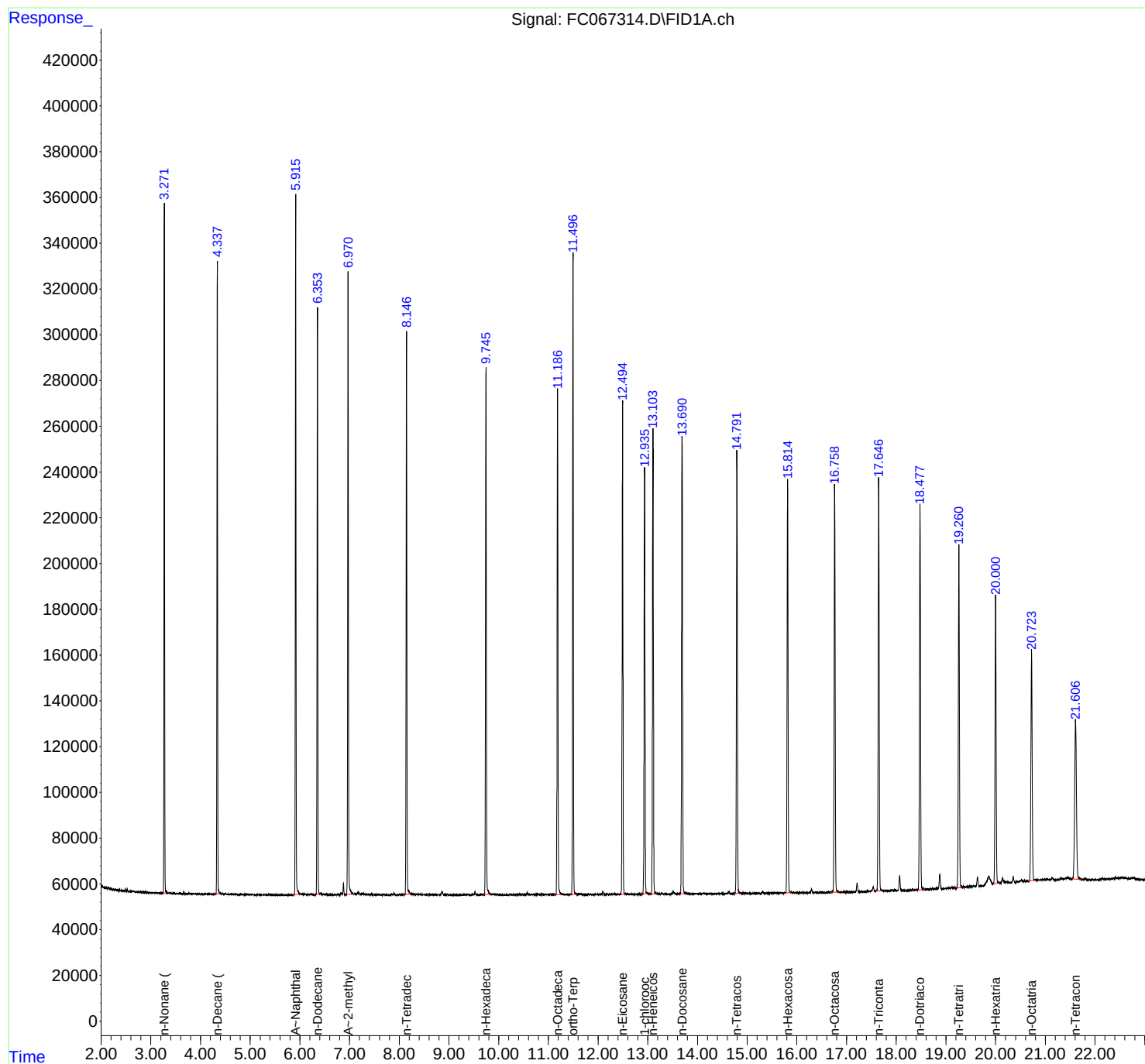
(m)=manual int.

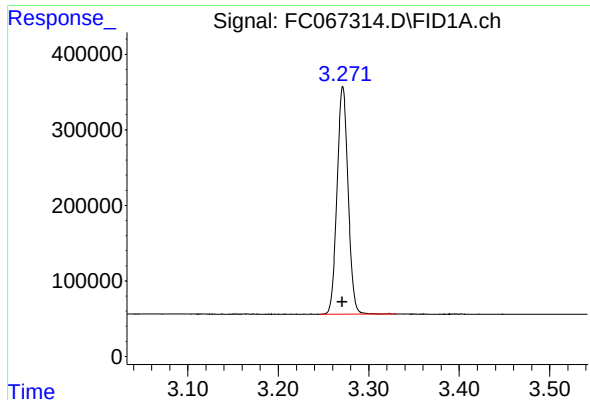
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067314.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 11:48
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Oct 01 09:08:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:07:31 2024
Response via : Initial Calibration
Integrator: ChemStation

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

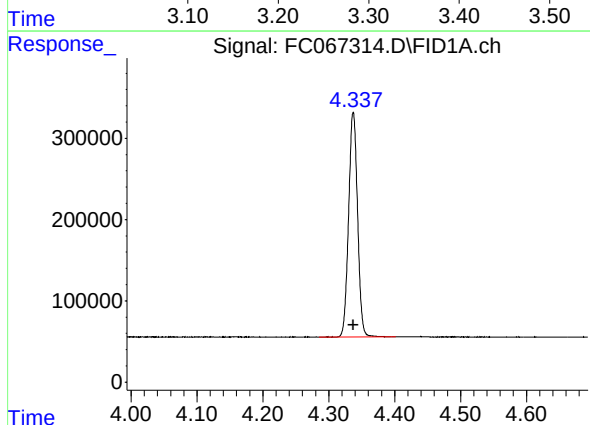




#1 n-Nonane (C9)

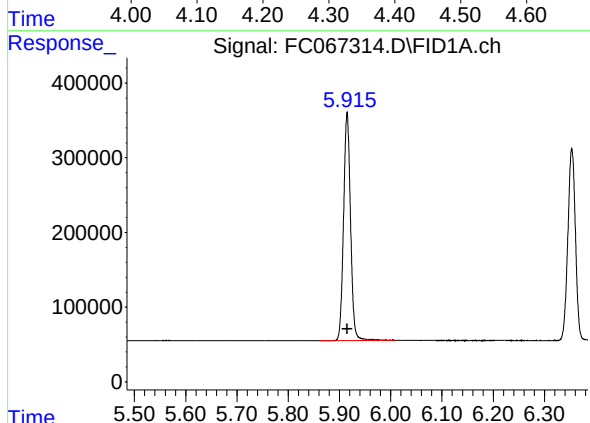
R.T.: 3.271 min
Delta R.T.: 0.000 min
Response: 2561935
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



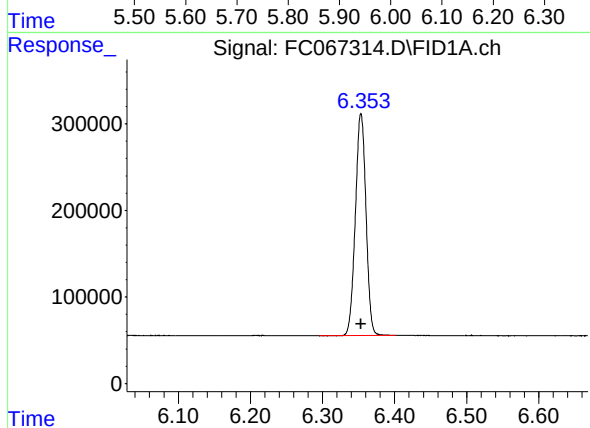
#2 n-Decane (C10)

R.T.: 4.337 min
Delta R.T.: 0.000 min
Response: 2606750
Conc: 20.00 ug/ml



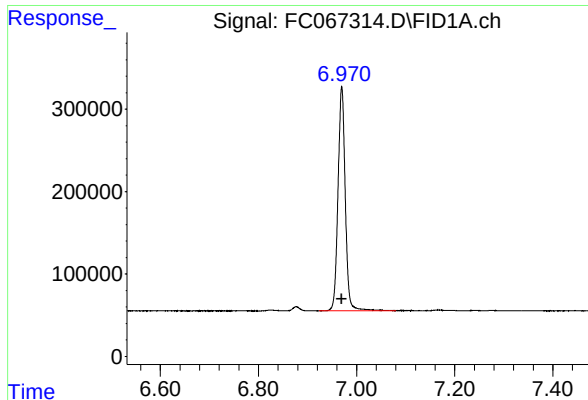
#3 A~Naphthalene (C11.7)

R.T.: 5.915 min
Delta R.T.: 0.000 min
Response: 2878074
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

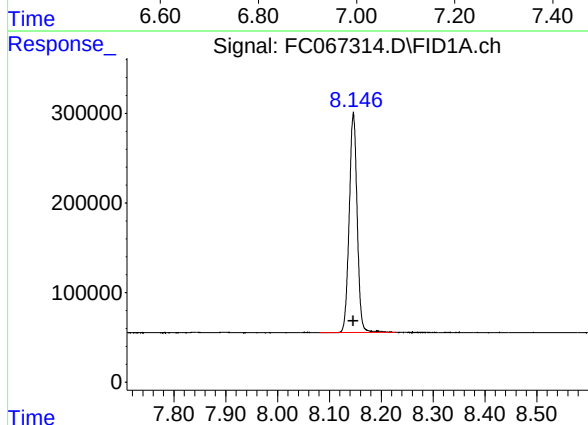
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 2627937
Conc: 20.00 ug/ml



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

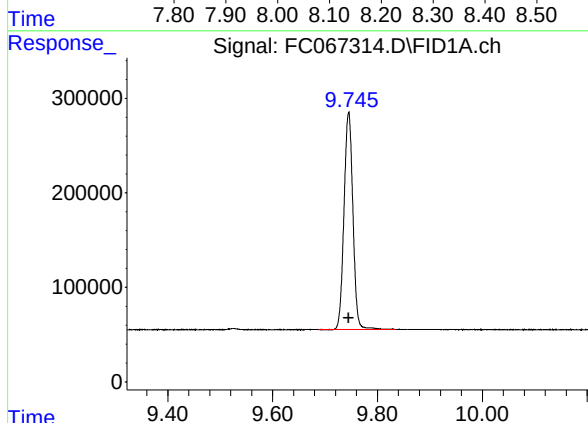
R.T.: 6.970 min
Delta R.T.: 0.000 min
Response: 2792361
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



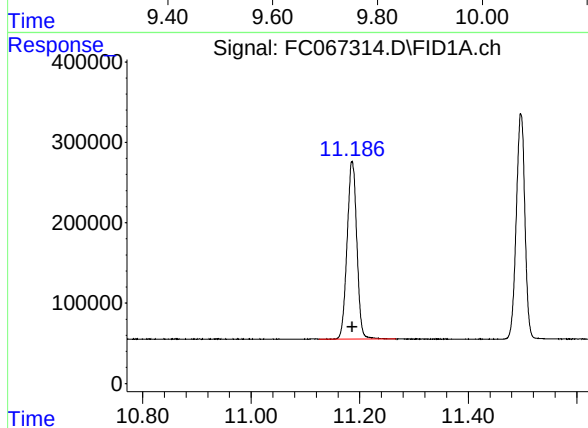
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 2616449
Conc: 20.00 ug/ml



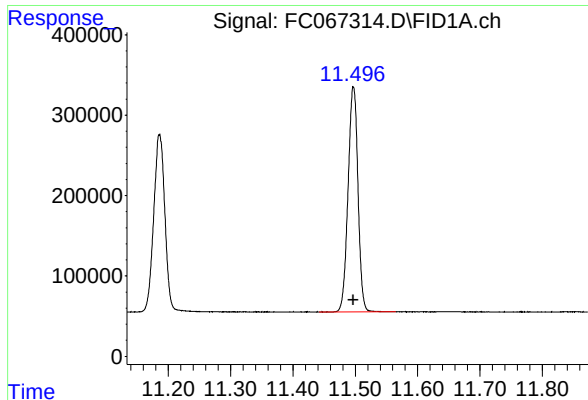
#7 n-Hexadecane (C16)

R.T.: 9.745 min
Delta R.T.: 0.000 min
Response: 2703190
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

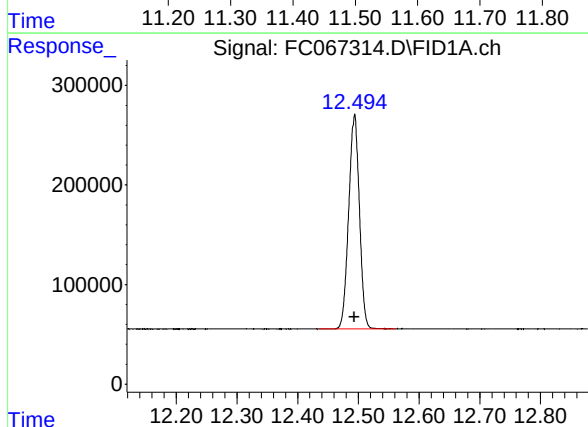
R.T.: 11.186 min
Delta R.T.: 0.000 min
Response: 2753269
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

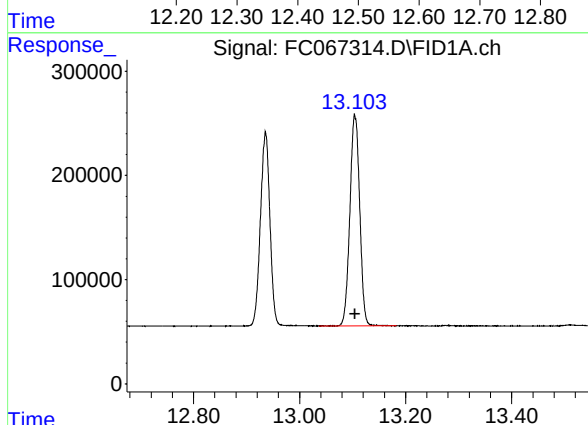
R.T.: 11.497 min
Delta R.T.: 0.000 min
Response: 3089013
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



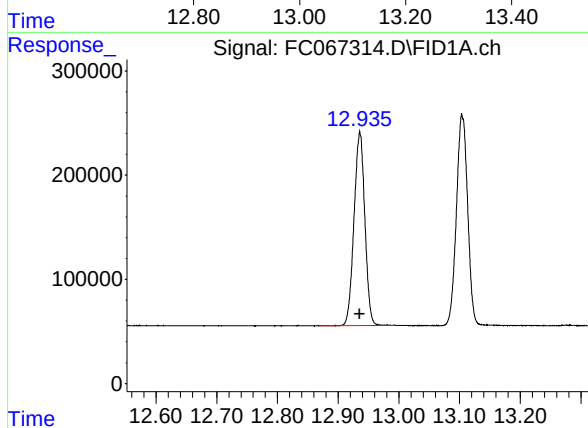
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.000 min
Response: 2645737
Conc: 20.00 ug/ml



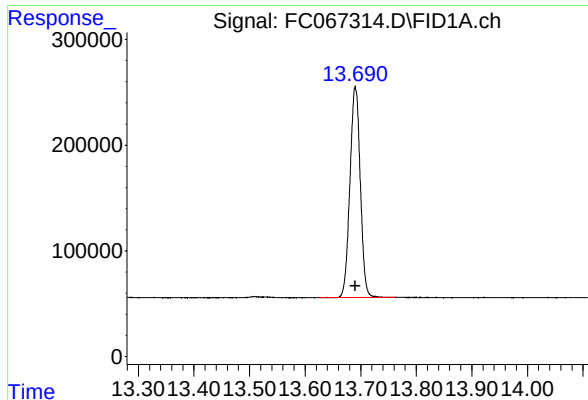
#11 n-Heneicosane (C21)

R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 2606321
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

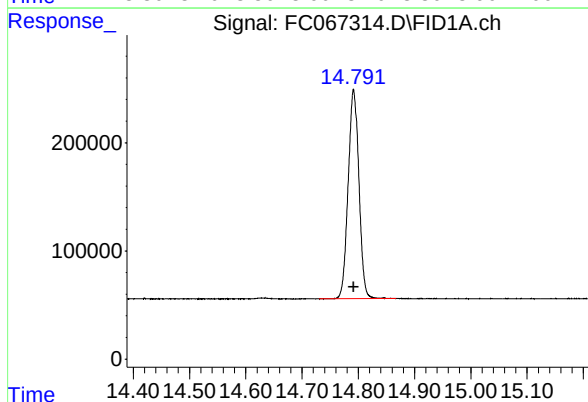
R.T.: 12.936 min
Delta R.T.: 0.000 min
Response: 2301706
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

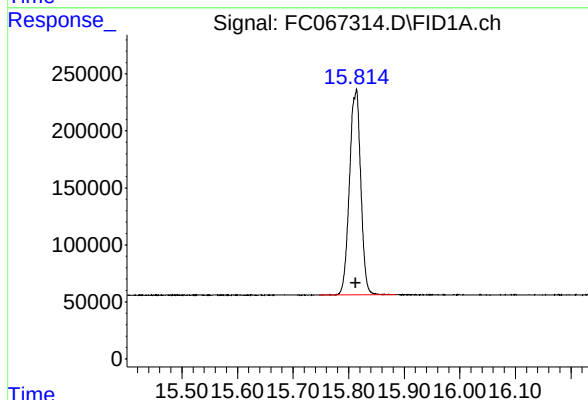
R.T.: 13.690 min
Delta R.T.: 0.000 min
Response: 2582773
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



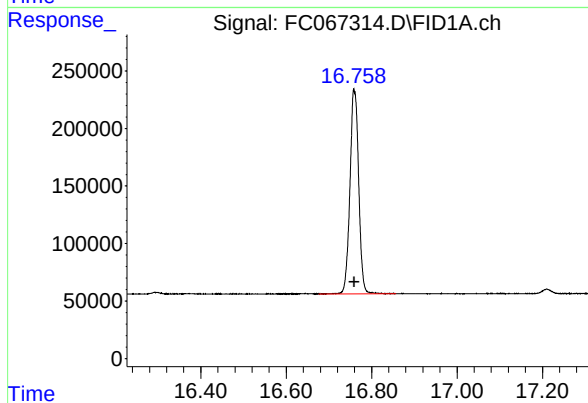
#14 n-Tetracosane (C24)

R.T.: 14.792 min
Delta R.T.: 0.000 min
Response: 2574621
Conc: 20.00 ug/ml



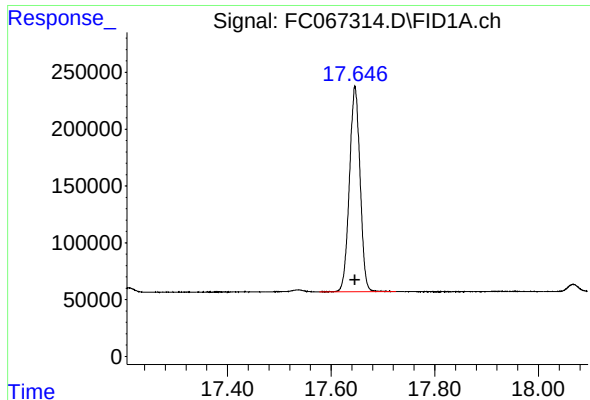
#15 n-Hexacosane (C26)

R.T.: 15.813 min
Delta R.T.: 0.000 min
Response: 2538087
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

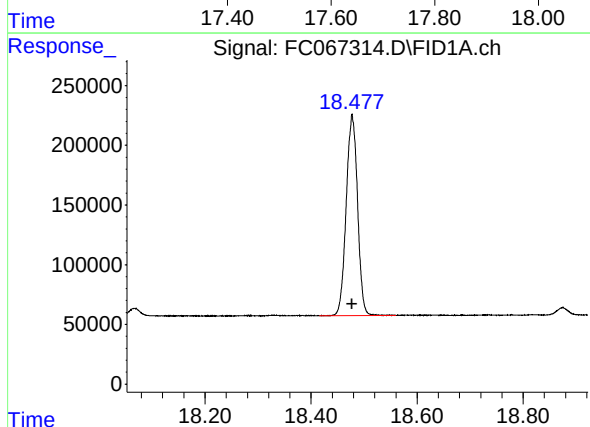
R.T.: 16.760 min
Delta R.T.: 0.000 min
Response: 2519727
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

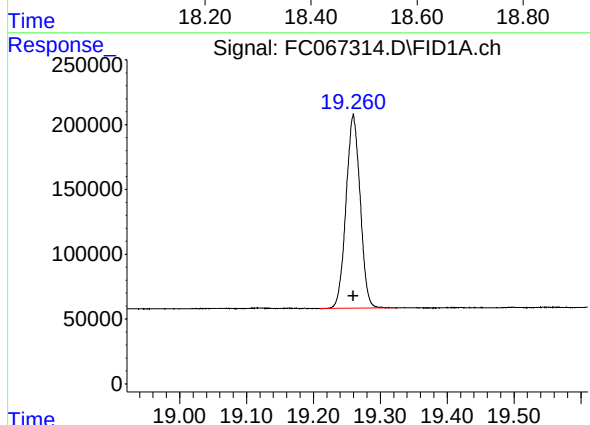
R.T.: 17.646 min
Delta R.T.: 0.000 min
Response: 2574944
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



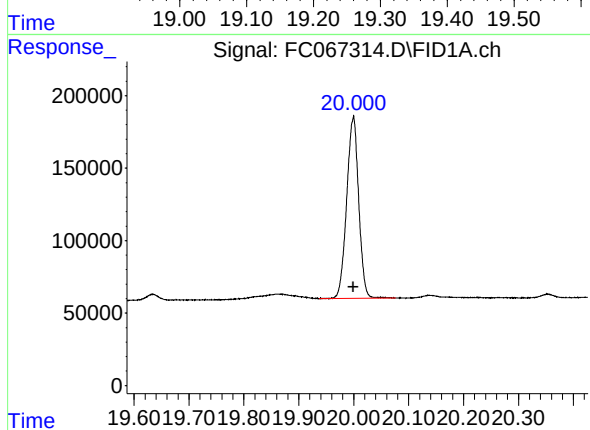
#18 n-Dotriacontane (C32)

R.T.: 18.478 min
Delta R.T.: 0.000 min
Response: 2497831
Conc: 20.00 ug/ml



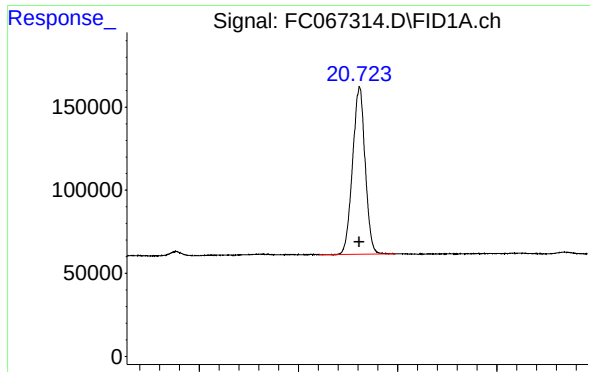
#19 n-Tetatriacontane (C34)

R.T.: 19.260 min
Delta R.T.: 0.000 min
Response: 2193263
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

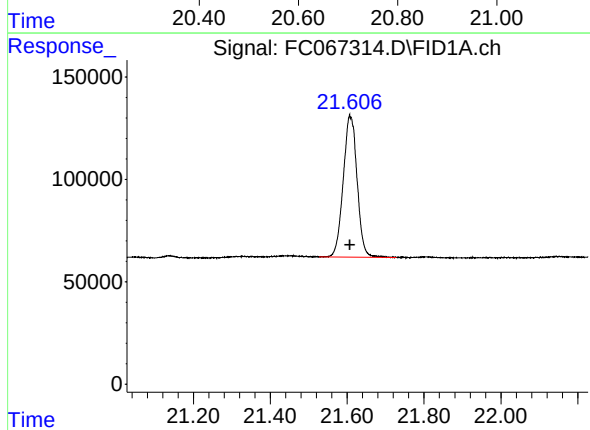
R.T.: 19.999 min
Delta R.T.: 0.000 min
Response: 1907034
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.723 min
Delta R.T.: 0.000 min
Response: 1770855
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.608 min
Delta R.T.: 0.000 min
Response: 1730957
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
 Data File : FC067314.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 11:48
 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 100224.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	3.330	BB	301355	2561935	82.94%	4.652%
2	4.337	4.285	4.402	BB	276151	2606750	84.39%	4.733%
3	5.915	5.860	6.010	BB	306302	2878074	93.17%	5.226%
4	6.353	6.295	6.402	BB	256127	2627937	85.07%	4.772%
5	6.970	6.923	7.080	BB	272068	2792361	90.40%	5.070%
6	8.146	8.080	8.228	BB	246166	2616449	84.70%	4.751%
7	9.745	9.688	9.835	BB	229678	2703190	87.51%	4.908%
8	11.186	11.125	11.267	BB	220672	2753269	89.13%	4.999%
9	11.497	11.442	11.565	BB	280480	3089013	100.00%	5.609%
10	12.493	12.435	12.562	BB	214435	2645737	85.65%	4.804%
11	12.936	12.868	12.995	BB	185389	2301706	74.51%	4.179%
12	13.105	13.037	13.182	BB	199408	2606321	84.37%	4.732%
13	13.690	13.625	13.763	BB	199133	2582773	83.61%	4.690%
14	14.792	14.730	14.867	BB	192816	2574621	83.35%	4.675%
15	15.813	15.747	15.885	BB	175714	2538087	82.16%	4.609%
16	16.760	16.677	16.857	BB	174965	2519727	81.57%	4.575%
17	17.646	17.577	17.725	BB	180572	2574944	83.36%	4.676%
18	18.478	18.415	18.560	BB	168215	2497831	80.86%	4.536%
19	19.260	19.208	19.323	BB	149736	2193263	71.00%	3.982%
20	19.999	19.937	20.077	VB	124156	1907034	61.74%	3.463%
21	20.723	20.642	20.797	BB	100926	1770855	57.33%	3.215%
22	21.608	21.527	21.727	BB	68950	1730957	56.04%	3.143%
Sum of corrected areas:							55072832	

Aliphatic EPH 100224.M Tue Oct 01 09:21:20 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F100224AL\
 Data File : FC067315.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 12:47
 Operator : YP/AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Oct 01 09:11:43 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:07:31 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)	11.496	1571986	10.733 ug/ml
Spiked Amount 50.000		Recovery =	21.47%
12) S 1-chlorooctadecane (S...	12.936	1173605	10.698 ug/ml
Spiked Amount 50.000		Recovery =	21.40%
Target Compounds			
1) T n-Nonane (C9)	3.270	1286606	10.491 ug/ml
2) T n-Decane (C10)	4.336	1306831	10.474 ug/ml
3) T A~Naphthalene (C11.7)	5.915	1437407	10.417 ug/ml
4) T n-Dodecane (C12)	6.353	1318883	10.451 ug/ml
5) T A~2-methylnaphthalene...	6.970	1392618	10.375 ug/ml
6) T n-Tetradecane (C14)	8.146	1308417	10.411 ug/ml
7) T n-Hexadecane (C16)	9.745	1367829	10.562 ug/ml
8) T n-Octadecane (C18)	11.185	1404957	10.718 ug/ml
10) T n-Eicosane (C20)	12.493	1359651	10.795 ug/ml
11) T n-Heneicosane (C21)	13.104	1336214	10.787 ug/ml
13) T n-Docosane (C22)	13.689	1324859	10.728 ug/ml
14) T n-Tetracosane (C24)	14.791	1318090	10.622 ug/ml
15) T n-Hexacosane (C26)	15.811	1292438	10.537 ug/ml
16) T n-Octacosane (C28)	16.761	1284086	10.578 ug/ml
17) T n-Tricontane (C30)	17.647	1321139	10.727 ug/ml
18) T n-Dotriacontane (C32)	18.478	1282377	10.851 ug/ml
19) T n-Tetratriacontane (C34)	19.261	1119659	10.805 ug/ml
20) T n-Hexatriacontane (C36)	20.000	974156	10.885 ug/ml
21) T n-Octatriacontane (C38)	20.724	893961	10.604 ug/ml
22) T n-Tetracontane (C40)	21.611	848887	10.298 ug/ml

(f)=RT Delta > 1/2 Window

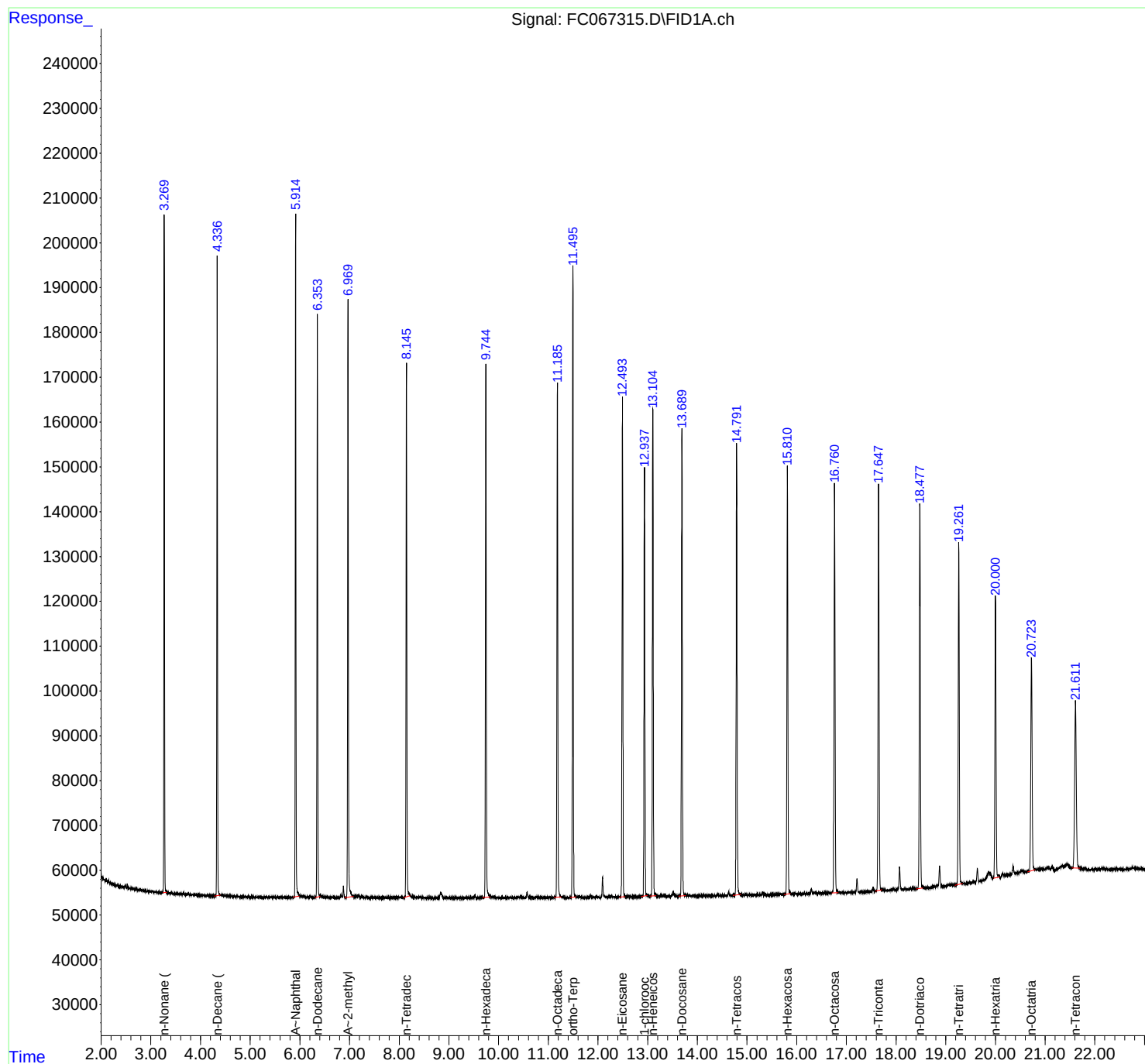
(m)=manual int.

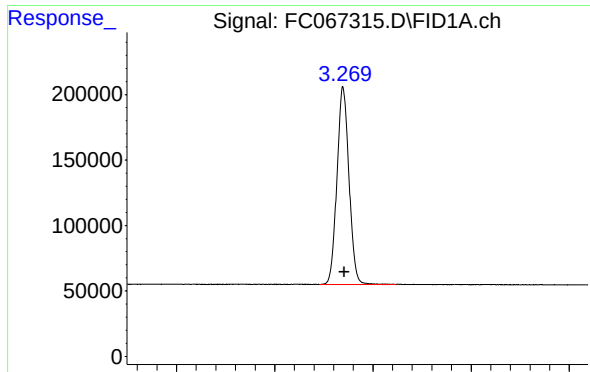
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067315.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 12:47
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Oct 01 09:11:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:07:31 2024
Response via : Initial Calibration
Integrator: ChemStation

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

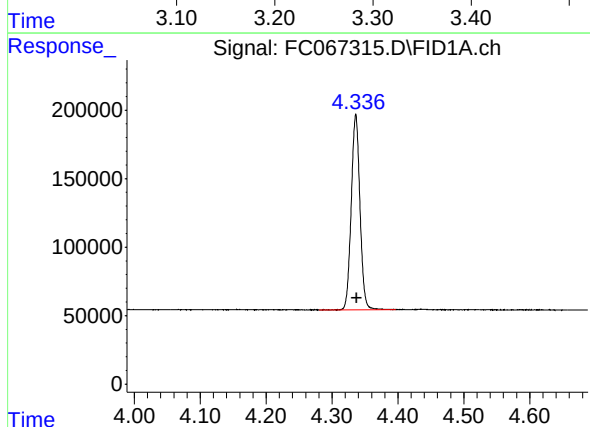




#1 n-Nonane (C9)

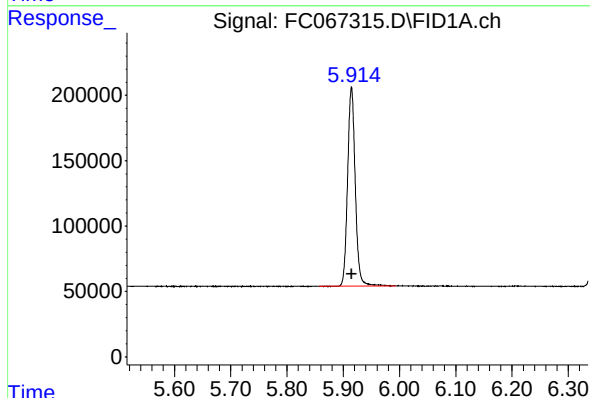
R.T.: 3.270 min
Delta R.T.: -0.001 min
Response: 1286606
Conc: 10.49 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



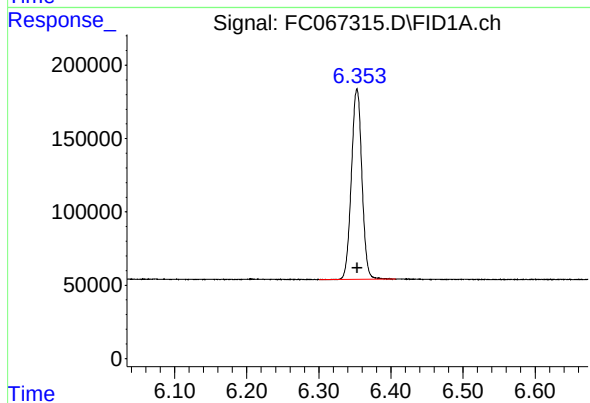
#2 n-Decane (C10)

R.T.: 4.336 min
Delta R.T.: -0.001 min
Response: 1306831
Conc: 10.47 ug/ml



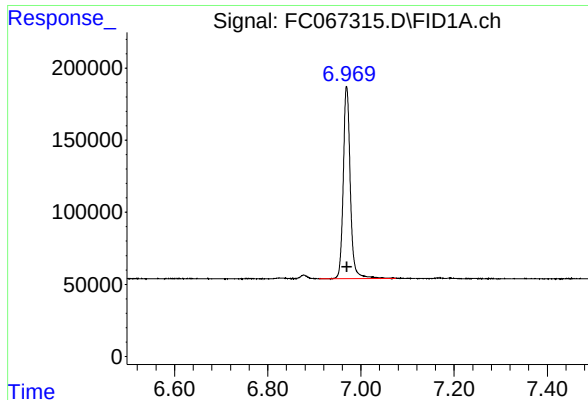
#3 A~Naphthalene (C11.7)

R.T.: 5.915 min
Delta R.T.: 0.000 min
Response: 1437407
Conc: 10.42 ug/ml



#4 n-Dodecane (C12)

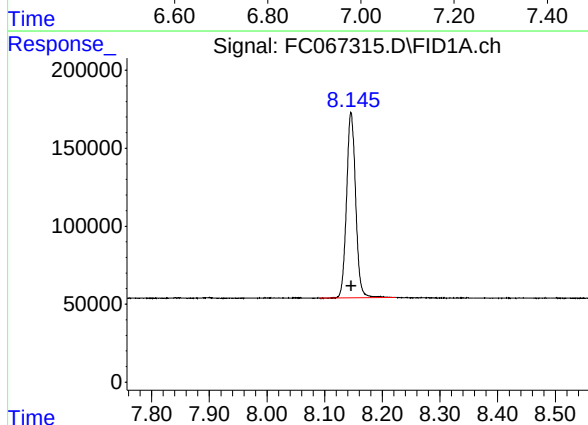
R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 1318883
Conc: 10.45 ug/ml



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

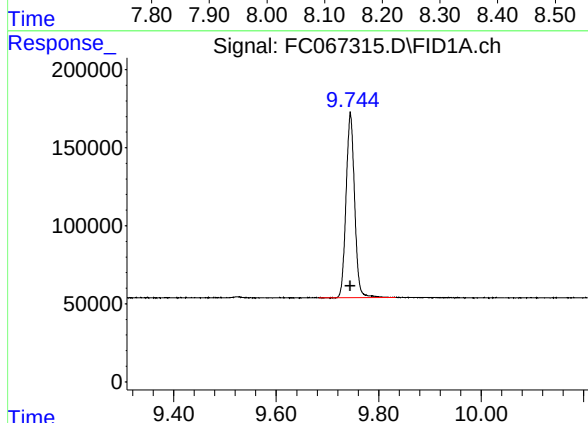
R.T.: 6.970 min
Delta R.T.: 0.000 min
Response: 1392618
Conc: 10.37 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



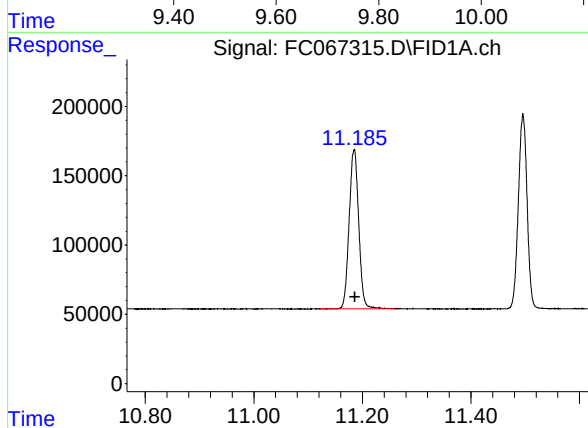
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 1308417
Conc: 10.41 ug/ml



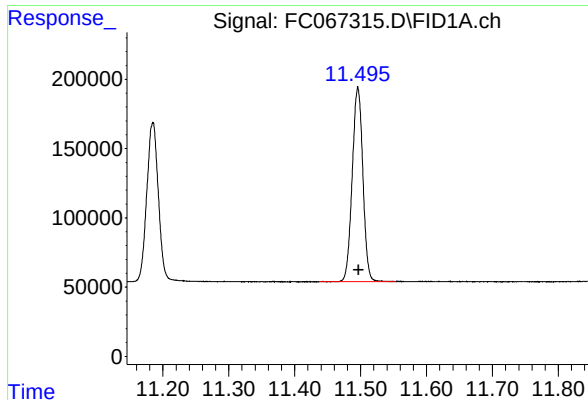
#7 n-Hexadecane (C16)

R.T.: 9.745 min
Delta R.T.: 0.000 min
Response: 1367829
Conc: 10.56 ug/ml



#8 n-Octadecane (C18)

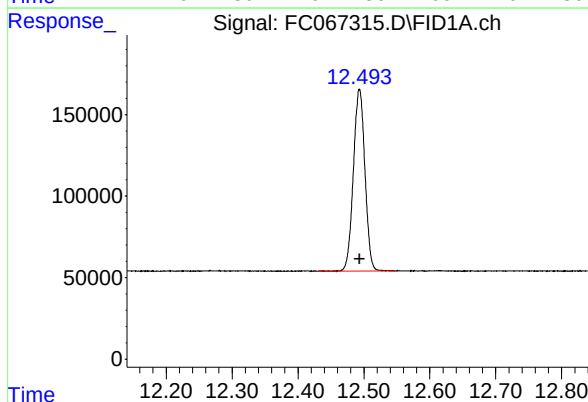
R.T.: 11.185 min
Delta R.T.: -0.001 min
Response: 1404957
Conc: 10.72 ug/ml



#9 ortho-Terphenyl (SURR)

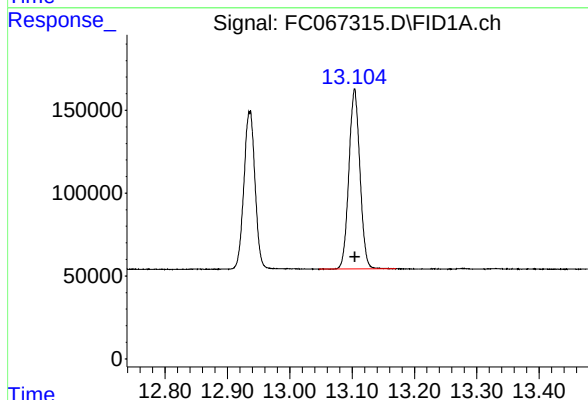
R.T.: 11.496 min
Delta R.T.: -0.001 min
Response: 1571986
Conc: 10.73 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



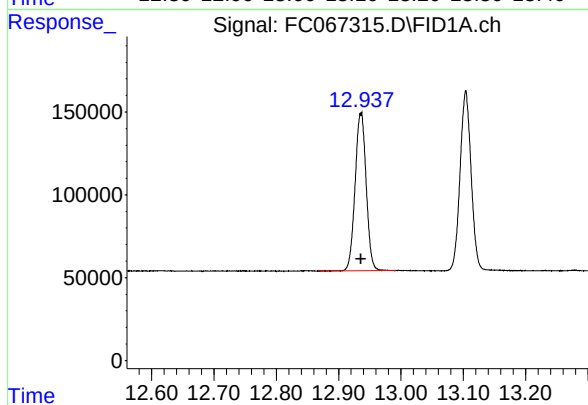
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.000 min
Response: 1359651
Conc: 10.80 ug/ml



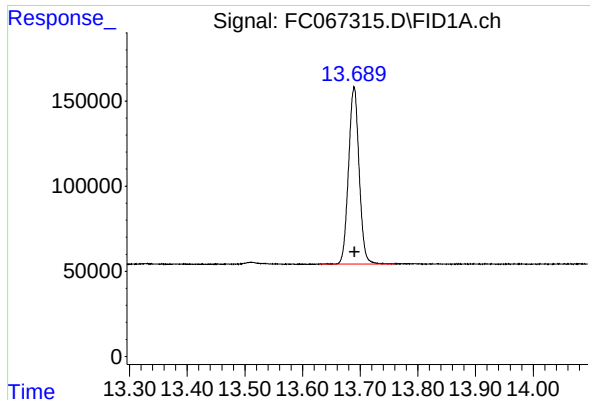
#11 n-Heneicosane (C21)

R.T.: 13.104 min
Delta R.T.: 0.000 min
Response: 1336214
Conc: 10.79 ug/ml



#12 1-chlorooctadecane (SURR)

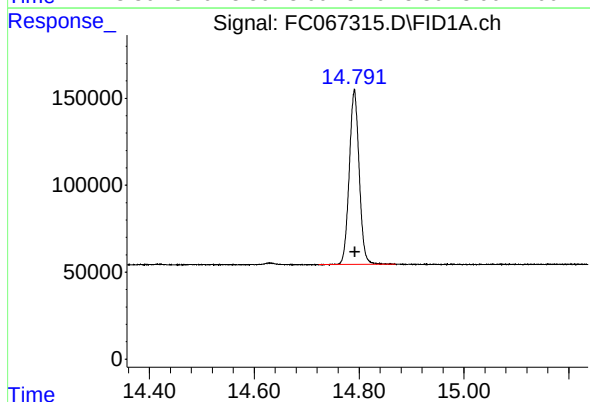
R.T.: 12.936 min
Delta R.T.: 0.000 min
Response: 1173605
Conc: 10.70 ug/ml



#13 n-Docosane (C22)

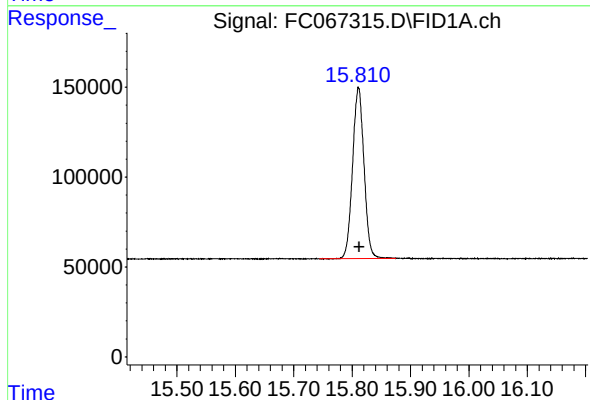
R.T.: 13.689 min
Delta R.T.: -0.001 min
Response: 1324859
Conc: 10.73 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



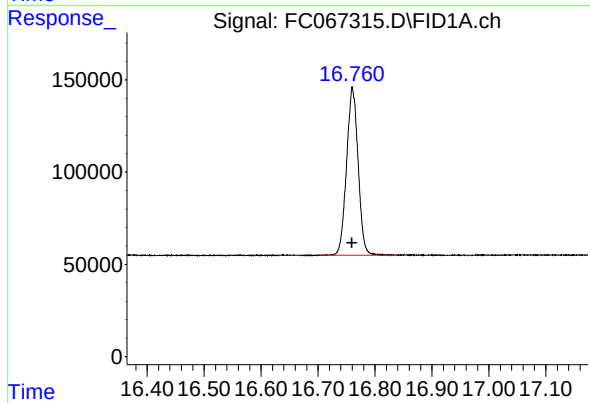
#14 n-Tetracosane (C24)

R.T.: 14.791 min
Delta R.T.: 0.000 min
Response: 1318090
Conc: 10.62 ug/ml



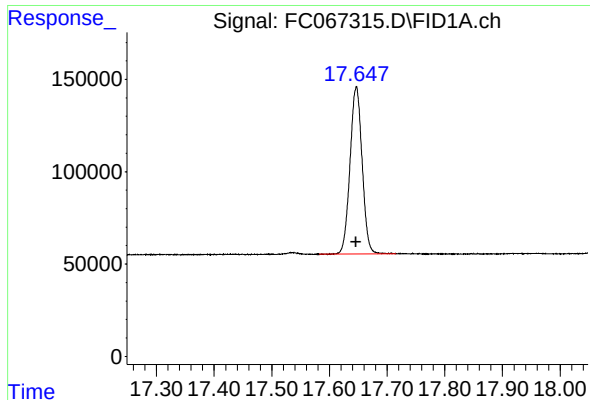
#15 n-Hexacosane (C26)

R.T.: 15.811 min
Delta R.T.: -0.002 min
Response: 1292438
Conc: 10.54 ug/ml



#16 n-Octacosane (C28)

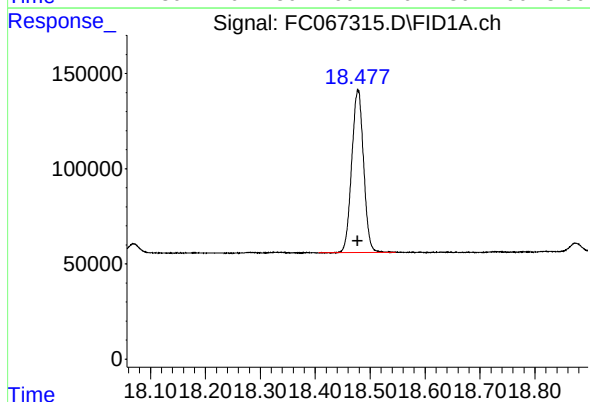
R.T.: 16.761 min
Delta R.T.: 0.000 min
Response: 1284086
Conc: 10.58 ug/ml



#17 n-Tricontane (C30)

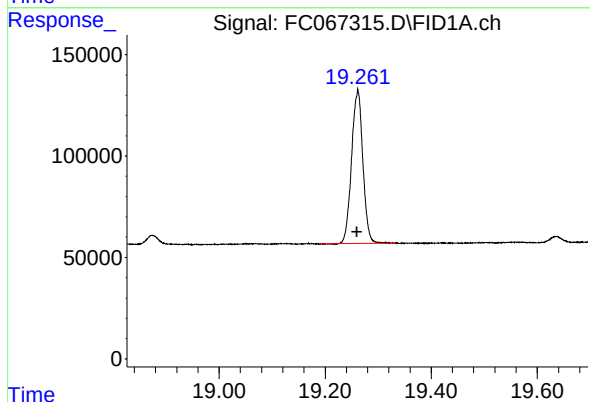
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 1321139
Conc: 10.73 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



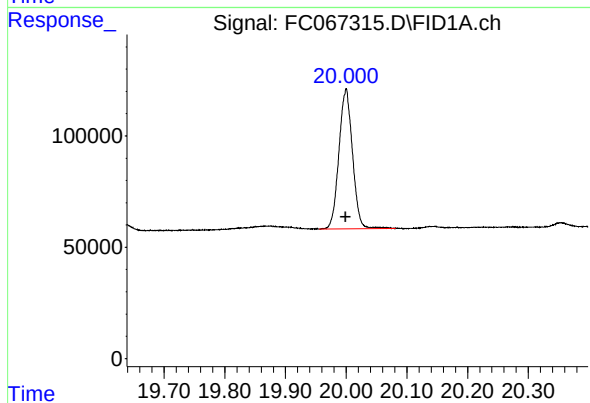
#18 n-Dotriacontane (C32)

R.T.: 18.478 min
Delta R.T.: 0.000 min
Response: 1282377
Conc: 10.85 ug/ml



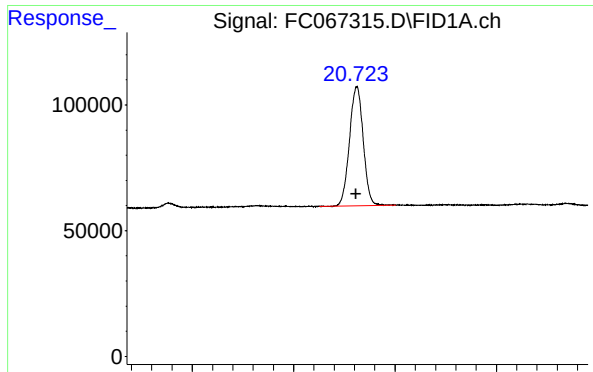
#19 n-Tetratriacontane (C34)

R.T.: 19.261 min
Delta R.T.: 0.002 min
Response: 1119659
Conc: 10.81 ug/ml



#20 n-Hexatriacontane (C36)

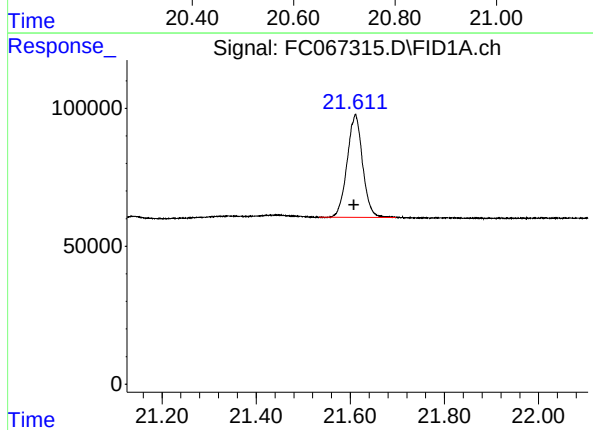
R.T.: 20.000 min
Delta R.T.: 0.000 min
Response: 974156
Conc: 10.88 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.724 min
Delta R.T.: 0.001 min
Response: 893961
Conc: 10.60 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 21.611 min
Delta R.T.: 0.003 min
Response: 848887
Conc: 10.30 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067315.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 12:47
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.270	3.245	3.324	BB	149654	1286606	81.85%	4.607%
2	4.336	4.280	4.397	BB	143345	1306831	83.13%	4.680%
3	5.915	5.857	5.994	BB	152594	1437407	91.44%	5.147%
4	6.353	6.300	6.407	BB	129992	1318883	83.90%	4.723%
5	6.970	6.910	7.075	BB	132847	1392618	88.59%	4.987%
6	8.146	8.090	8.224	BB	118854	1308417	83.23%	4.686%
7	9.745	9.684	9.834	BB	118309	1367829	87.01%	4.898%
8	11.185	11.120	11.262	BB	115074	1404957	89.37%	5.031%
9	11.496	11.437	11.554	BB	139977	1571986	100.00%	5.629%
10	12.493	12.432	12.549	BB	111570	1359651	86.49%	4.869%
11	12.936	12.869	12.992	BB	94987	1173605	74.66%	4.203%
12	13.104	13.047	13.170	BB	108646	1336214	85.00%	4.785%
13	13.689	13.629	13.762	BB	103488	1324859	84.28%	4.744%
14	14.791	14.724	14.870	BB	99895	1318090	83.85%	4.720%
15	15.811	15.744	15.875	BB	95486	1292438	82.22%	4.628%
16	16.761	16.702	16.837	BB	90915	1284086	81.69%	4.598%
17	17.647	17.582	17.715	BB	90874	1321139	84.04%	4.731%
18	18.478	18.407	18.547	BB	85034	1282377	81.58%	4.592%
19	19.261	19.189	19.334	BB	76227	1119659	71.23%	4.010%
20	20.000	19.955	20.082	BB	63358	974156	61.97%	3.489%
21	20.724	20.650	20.802	BB	47317	893961	56.87%	3.201%
22	21.611	21.534	21.697	BB	37257	848887	54.00%	3.040%
Sum of corrected areas:							27924656	

Aliphatic EPH 100224.M Tue Oct 01 09:21:38 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
 Data File : FC067316.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 13:35
 Operator : YP/AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Oct 01 09:12:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:07:31 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)	11.496	821094	5.505 ug/ml
Spiked Amount 50.000		Recovery =	11.01%
12) S 1-chlorooctadecane (S...	12.936	597484	5.353 ug/ml
Spiked Amount 50.000		Recovery =	10.71%
Target Compounds			
1) T n-Nonane (C9)	3.271	686146	5.527 ug/ml
2) T n-Decane (C10)	4.336	688670	5.455 ug/ml
3) T A~Naphthalene (C11.7)	5.915	757843	5.435 ug/ml
4) T n-Dodecane (C12)	6.352	691712	5.420 ug/ml
5) T A~2-methylnaphthalene...	6.970	719915	5.313 ug/ml
6) T n-Tetradecane (C14)	8.146	680596	5.360 ug/ml
7) T n-Hexadecane (C16)	9.745	701420	5.341 ug/ml
8) T n-Octadecane (C18)	11.185	721326	5.406 ug/ml
10) T n-Eicosane (C20)	12.493	695208	5.412 ug/ml
11) T n-Heneicosane (C21)	13.105	680195	5.385 ug/ml
13) T n-Docosane (C22)	13.690	677301	5.386 ug/ml
14) T n-Tetracosane (C24)	14.792	676857	5.371 ug/ml
15) T n-Hexacosane (C26)	15.811	666097	5.359 ug/ml
16) T n-Octacosane (C28)	16.759	677736	5.503 ug/ml
17) T n-Tricontane (C30)	17.647	712654	5.683 ug/ml
18) T n-Dotriacontane (C32)	18.478	709265	5.876 ug/ml
19) T n-Tetratriacontane (C34)	19.260	617762	5.844 ug/ml
20) T n-Hexatriacontane (C36)	20.000	533422	5.831 ug/ml
21) T n-Octatriacontane (C38)	20.724	480941	5.620 ug/ml
22) T n-Tetracontane (C40)	21.612	490214	5.903 ug/ml

(f)=RT Delta > 1/2 Window

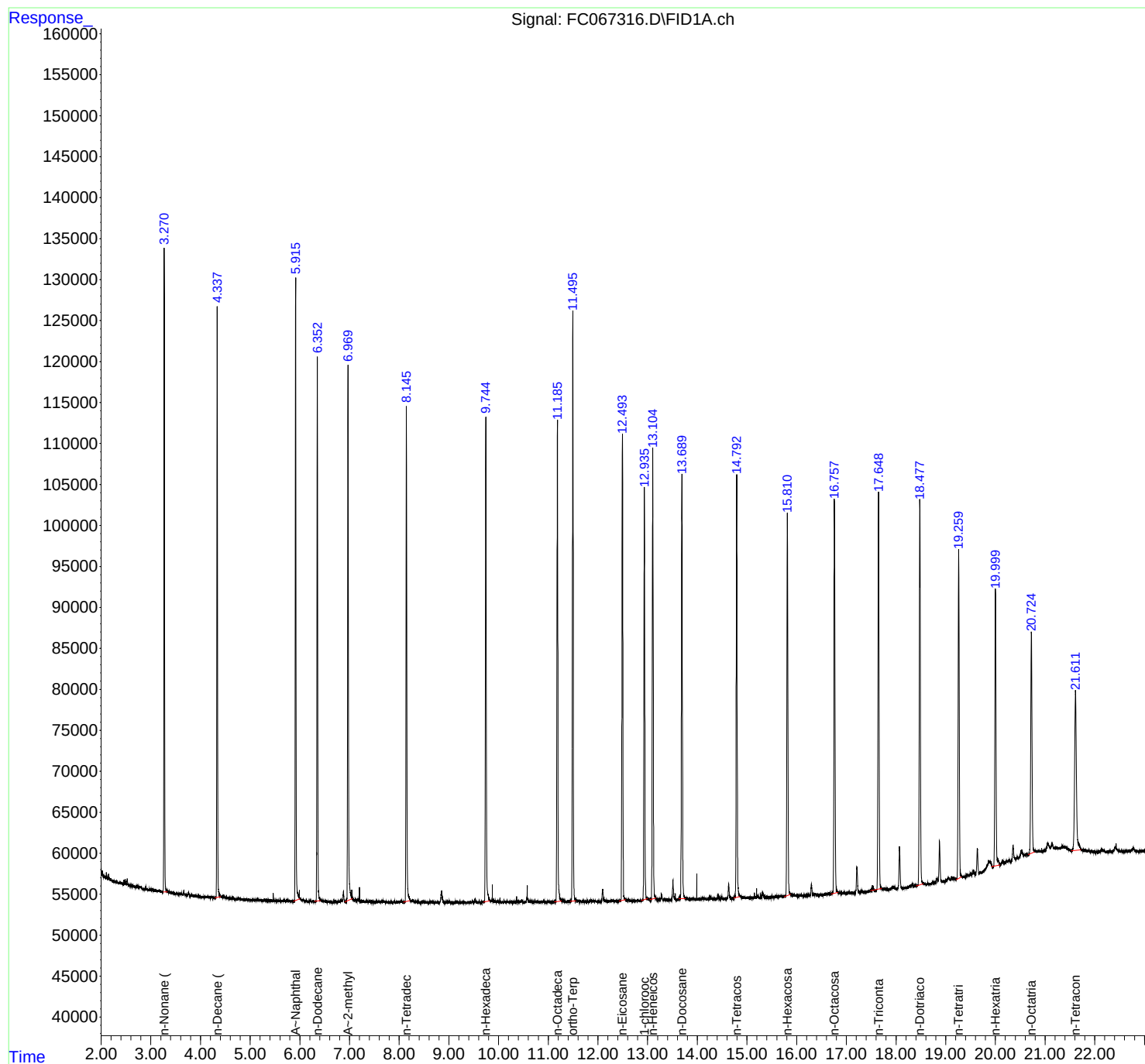
(m)=manual int.

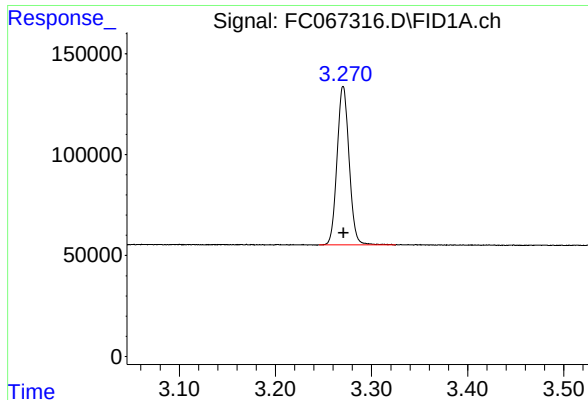
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067316.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 13:35
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Oct 01 09:12:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:07:31 2024
Response via : Initial Calibration
Integrator: ChemStation

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

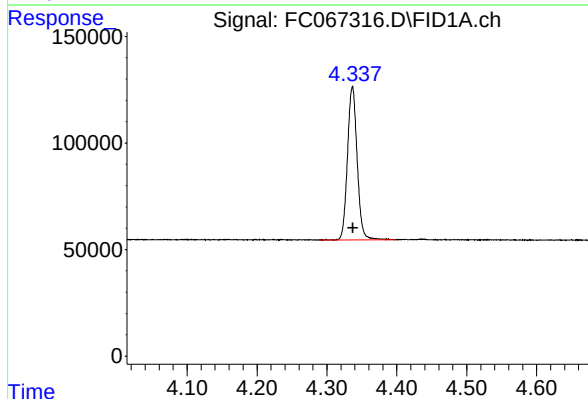




#1 n-Nonane (C9)

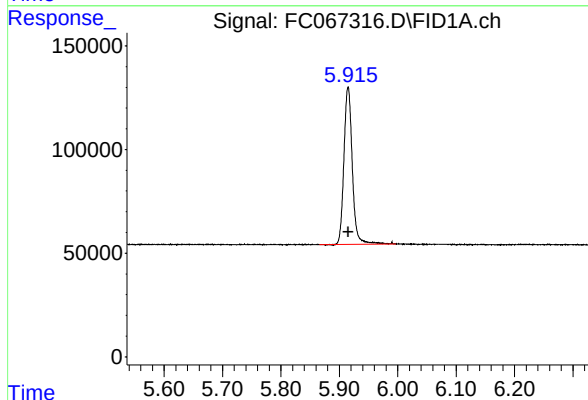
R.T.: 3.271 min
Delta R.T.: 0.000 min
Response: 686146
Conc: 5.53 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



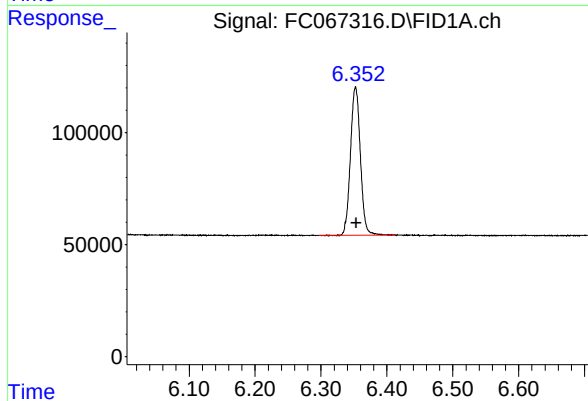
#2 n-Decane (C10)

R.T.: 4.336 min
Delta R.T.: 0.000 min
Response: 688670
Conc: 5.46 ug/ml



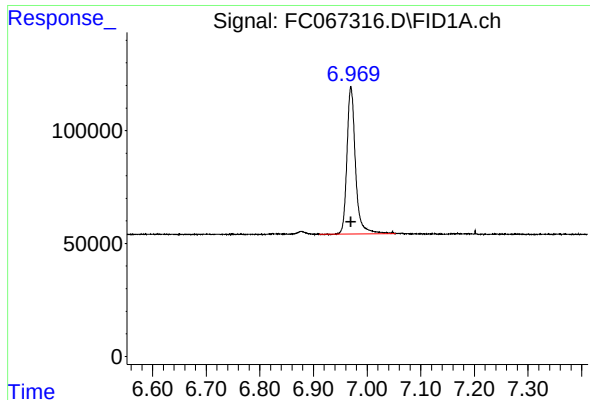
#3 A~Naphthalene (C11.7)

R.T.: 5.915 min
Delta R.T.: 0.000 min
Response: 757843
Conc: 5.44 ug/ml



#4 n-Dodecane (C12)

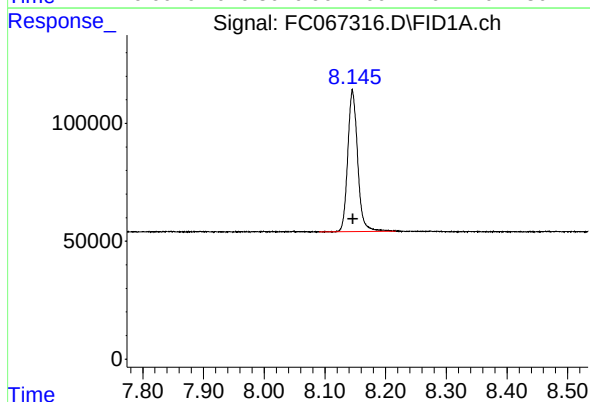
R.T.: 6.352 min
Delta R.T.: 0.000 min
Response: 691712
Conc: 5.42 ug/ml



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

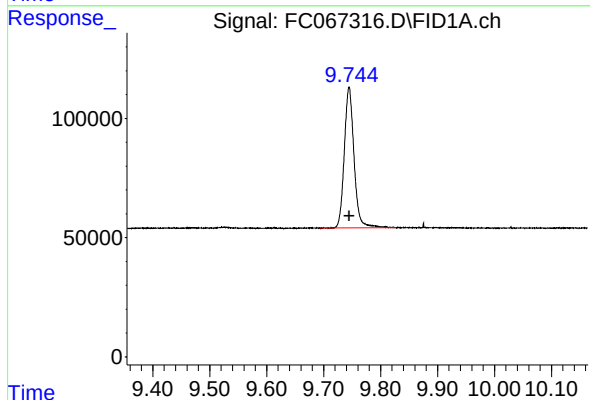
R.T.: 6.970 min
Delta R.T.: 0.000 min
Response: 719915
Conc: 5.31 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



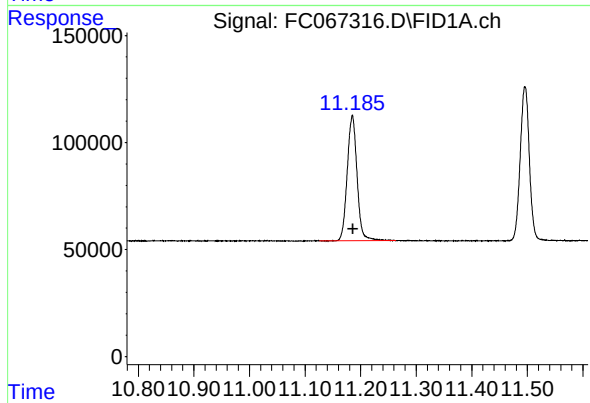
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 680596
Conc: 5.36 ug/ml



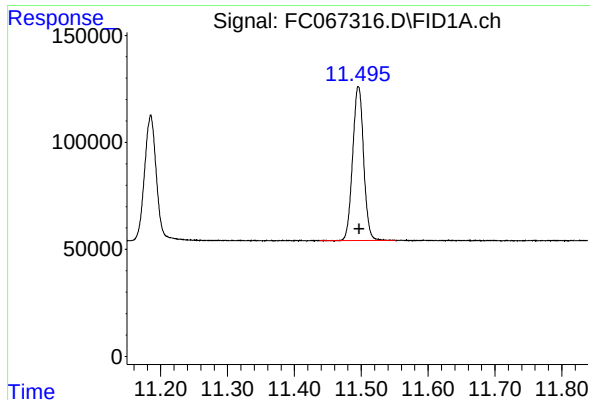
#7 n-Hexadecane (C16)

R.T.: 9.745 min
Delta R.T.: 0.000 min
Response: 701420
Conc: 5.34 ug/ml



#8 n-Octadecane (C18)

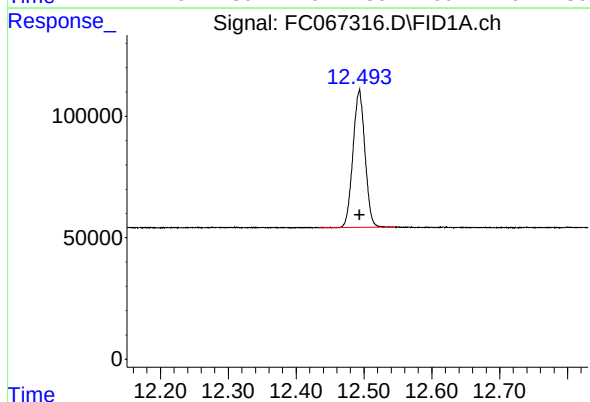
R.T.: 11.185 min
Delta R.T.: -0.001 min
Response: 721326
Conc: 5.41 ug/ml



#9 ortho-Terphenyl (SURR)

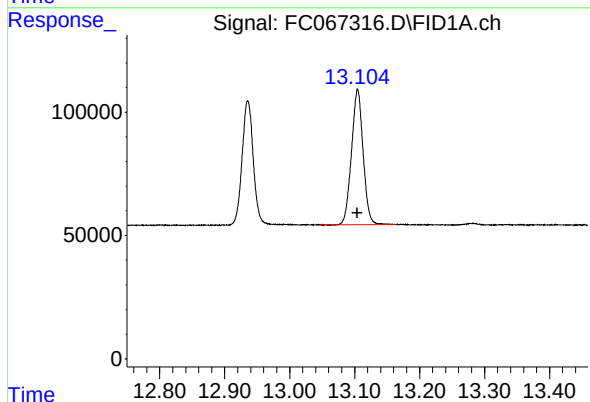
R.T.: 11.496 min
Delta R.T.: -0.001 min
Response: 821094
Conc: 5.51 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



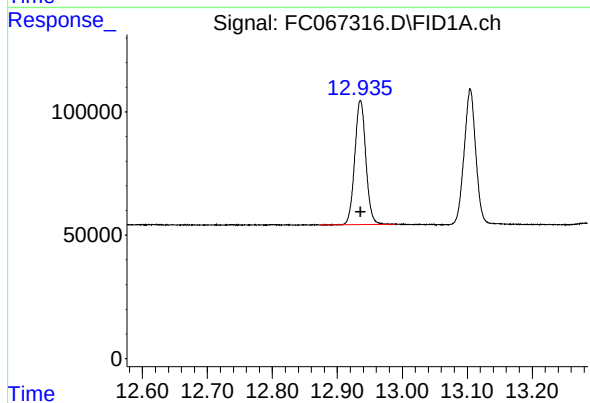
#10 n-Eicosane (C20)

R.T.: 12.493 min
Delta R.T.: 0.000 min
Response: 695208
Conc: 5.41 ug/ml



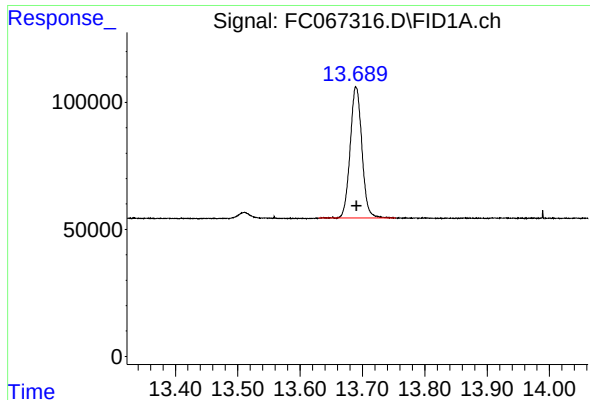
#11 n-Heneicosane (C21)

R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 680195
Conc: 5.39 ug/ml



#12 1-chlorooctadecane (SURR)

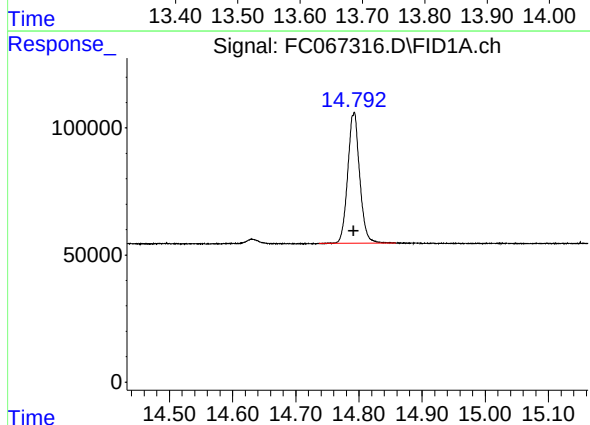
R.T.: 12.936 min
Delta R.T.: 0.000 min
Response: 597484
Conc: 5.35 ug/ml



#13 n-Docosane (C22)

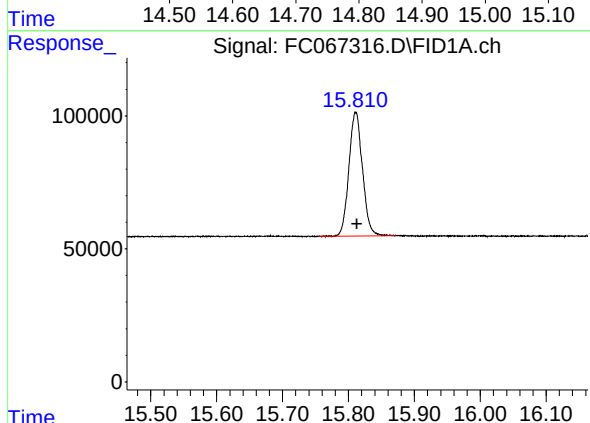
R.T.: 13.690 min
Delta R.T.: 0.000 min
Response: 677301
Conc: 5.39 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



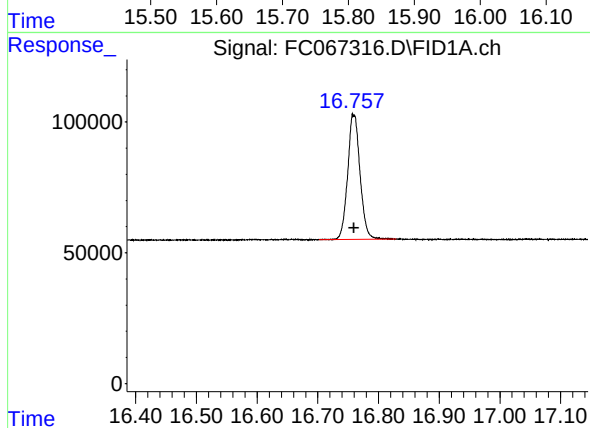
#14 n-Tetracosane (C24)

R.T.: 14.792 min
Delta R.T.: 0.000 min
Response: 676857
Conc: 5.37 ug/ml



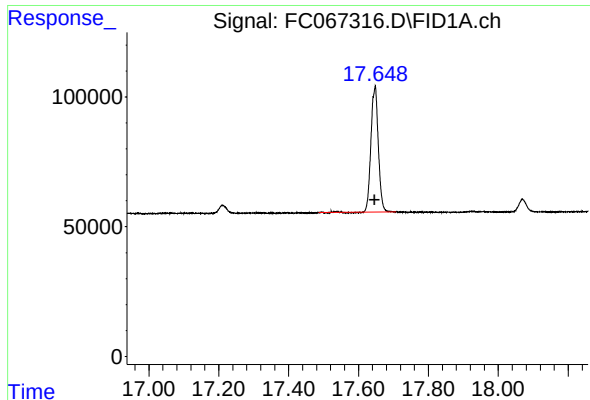
#15 n-Hexacosane (C26)

R.T.: 15.811 min
Delta R.T.: -0.002 min
Response: 666097
Conc: 5.36 ug/ml



#16 n-Octacosane (C28)

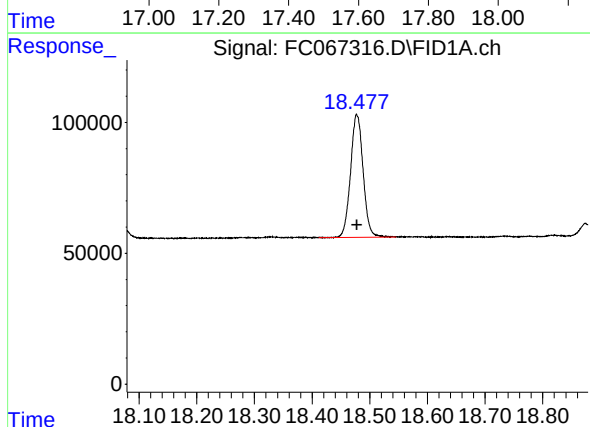
R.T.: 16.759 min
Delta R.T.: 0.000 min
Response: 677736
Conc: 5.50 ug/ml



#17 n-Tricontane (C30)

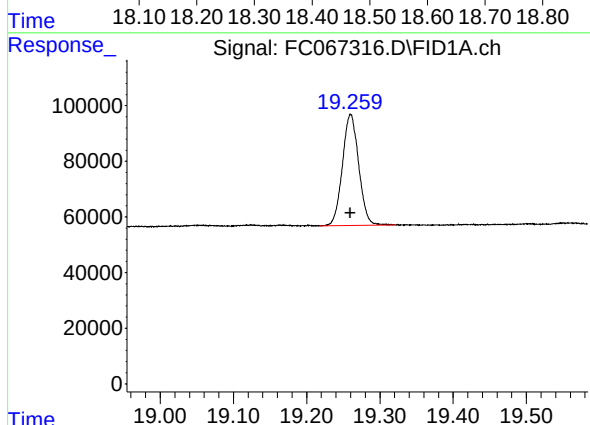
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 712654
Conc: 5.68 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



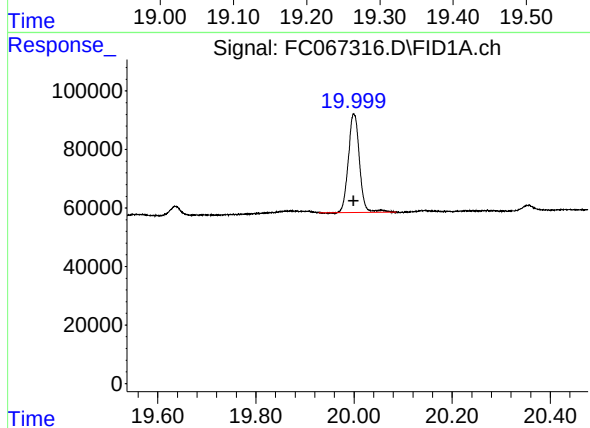
#18 n-Dotriacontane (C32)

R.T.: 18.478 min
Delta R.T.: 0.000 min
Response: 709265
Conc: 5.88 ug/ml



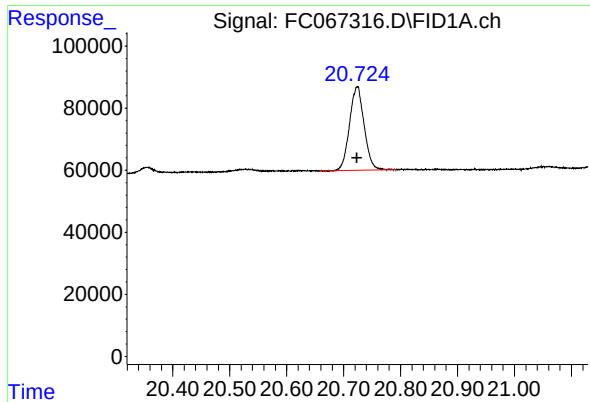
#19 n-Tetratriacontane (C34)

R.T.: 19.260 min
Delta R.T.: 0.000 min
Response: 617762
Conc: 5.84 ug/ml



#20 n-Hexatriacontane (C36)

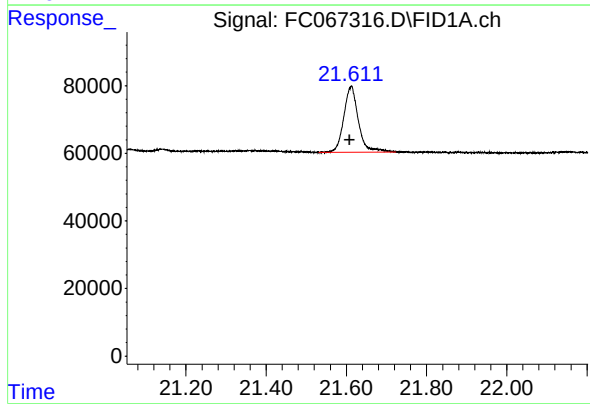
R.T.: 20.000 min
Delta R.T.: 0.000 min
Response: 533422
Conc: 5.83 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 20.724 min
Delta R.T.: 0.000 min
Response: 480941
Conc: 5.62 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 21.612 min
Delta R.T.: 0.004 min
Response: 490214
Conc: 5.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067316.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 13:35
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 100224.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	78681	686146	83.56%	4.673%
2	4.336	4.289	4.399	BB	72152	688670	83.87%	4.690%
3	5.915	5.865	5.997	BB	76027	757843	92.30%	5.161%
4	6.352	6.297	6.414	BB	66053	691712	84.24%	4.711%
5	6.970	6.910	7.054	BB	65101	719915	87.68%	4.903%
6	8.146	8.090	8.217	BB	60011	680596	82.89%	4.635%
7	9.745	9.692	9.827	BB	59283	701420	85.42%	4.777%
8	11.185	11.125	11.264	BB	58904	721326	87.85%	4.912%
9	11.496	11.437	11.552	BB	72136	821094	100.00%	5.592%
10	12.493	12.434	12.547	BB	56965	695208	84.67%	4.735%
11	12.936	12.872	12.990	BB	50290	597484	72.77%	4.069%
12	13.105	13.045	13.164	BB	54789	680195	82.84%	4.632%
13	13.690	13.630	13.754	BB	51352	677301	82.49%	4.613%
14	14.792	14.737	14.859	BB	51124	676857	82.43%	4.610%
15	15.811	15.755	15.872	BB	46744	666097	81.12%	4.536%
16	16.759	16.702	16.829	BB	47167	677736	82.54%	4.616%
17	17.647	17.487	17.707	BB	48207	712654	86.79%	4.853%
18	18.478	18.412	18.545	BB	46869	709265	86.38%	4.830%
19	19.260	19.217	19.322	BB	39937	617762	75.24%	4.207%
20	20.000	19.929	20.085	BB	33595	533422	64.96%	3.633%
21	20.724	20.657	20.792	BB	26905	480941	58.57%	3.275%
22	21.612	21.532	21.724	BB	19525	490214	59.70%	3.338%
Sum of corrected areas:							14683859	

Aliphatic EPH 100224.M Tue Oct 01 09:21:54 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
 Data File : FC067317.D
 Signal(s) : FID1A.ch
 Acq On : 30 Sep 2024 14:29
 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: Oct 01 09:15:12 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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)	11.498	2856514	18.773 ug/ml
Spiked Amount 50.000		Recovery =	37.55%
12) S 1-chlorooctadecane (S...	12.936	2133568	18.849 ug/ml
Spiked Amount 50.000		Recovery =	37.70%
Target Compounds			
1) T n-Nonane (C9)	3.270	2407553	18.993 ug/ml
2) T n-Decane (C10)	4.336	2442213	18.999 ug/ml
3) T A~Naphthalene (C11.7)	5.915	2689038	18.956 ug/ml
4) T n-Dodecane (C12)	6.353	2456420	18.930 ug/ml
5) T A~2-methylnaphthalene...	6.970	2597570	18.934 ug/ml
6) T n-Tetradecane (C14)	8.146	2450775	19.028 ug/ml
7) T n-Hexadecane (C16)	9.746	2523898	18.960 ug/ml
8) T n-Octadecane (C18)	11.186	2573183	18.976 ug/ml
10) T n-Eicosane (C20)	12.494	2485014	19.032 ug/ml
11) T n-Heneicosane (C21)	13.105	2426455	18.919 ug/ml
13) T n-Docosane (C22)	13.691	2465913	19.312 ug/ml
14) T n-Tetracosane (C24)	14.792	2609769	20.406 ug/ml
15) T n-Hexacosane (C26)	15.813	2600091	20.622 ug/ml
16) T n-Octacosane (C28)	16.762	2654837	21.132 ug/ml
17) T n-Tricontane (C30)	17.647	2708550	21.025 ug/ml
18) T n-Dotriacontane (C32)	18.478	2596492	20.784 ug/ml
19) T n-Tetratriacontane (C34)	19.261	2217081	20.289 ug/ml
20) T n-Hexatriacontane (C36)	20.000	1805047	19.097 ug/ml
21) T n-Octatriacontane (C38)	20.724	1666956	19.008 ug/ml
22) T n-Tetracontane (C40)	21.608	1643254	19.097 ug/ml

(f)=RT Delta > 1/2 Window

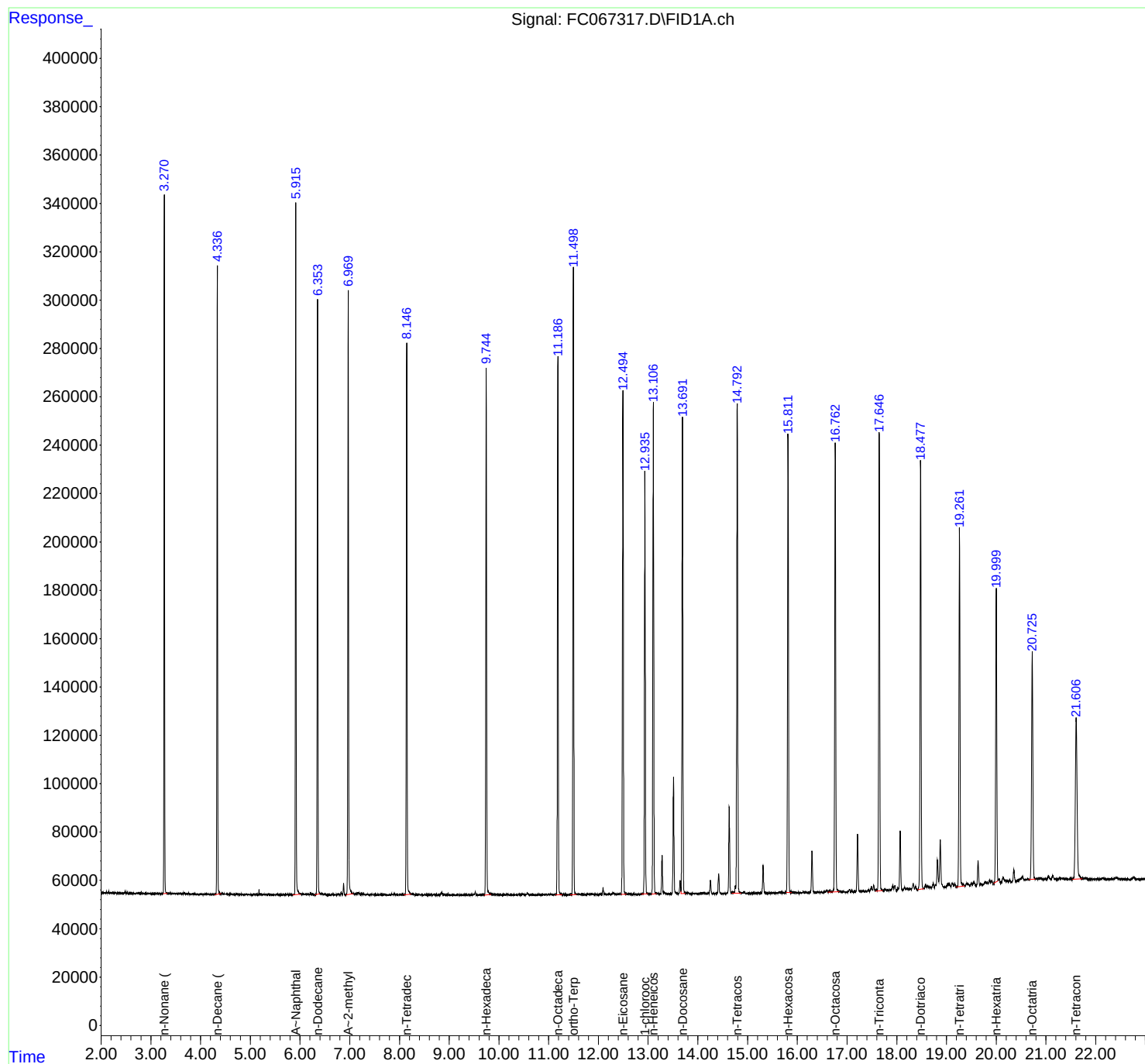
(m)=manual int.

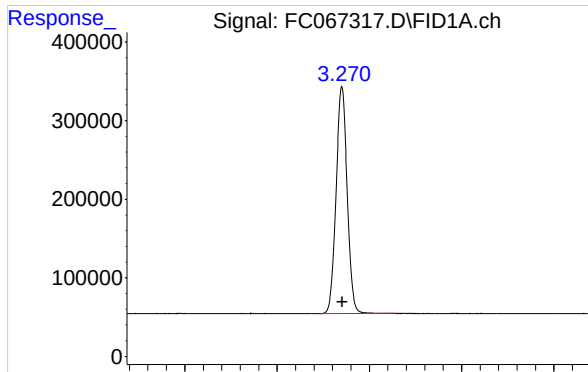
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067317.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 14:29
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 01 09:15:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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)

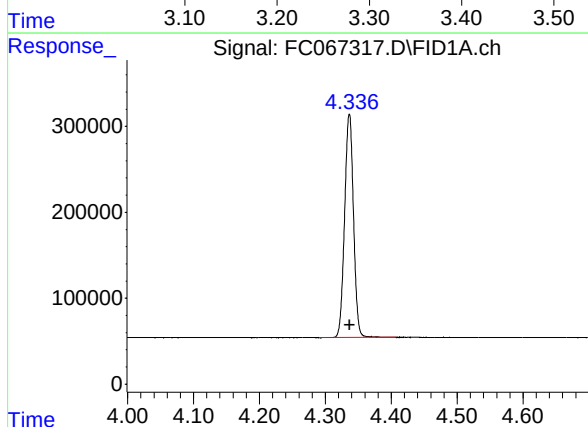
R.T.: 3.270 min
Delta R.T.: 0.000 min
Response: 2407553
Conc: 18.99 ug/ml

Instrument :

FID_C

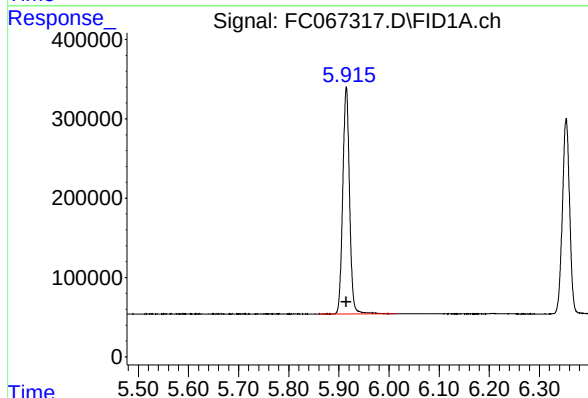
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



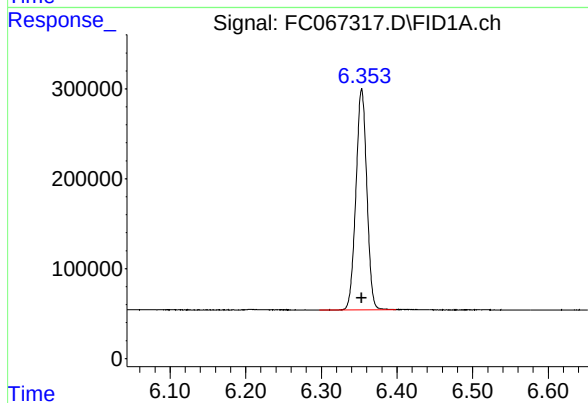
#2 n-Decane (C10)

R.T.: 4.336 min
Delta R.T.: 0.000 min
Response: 2442213
Conc: 19.00 ug/ml



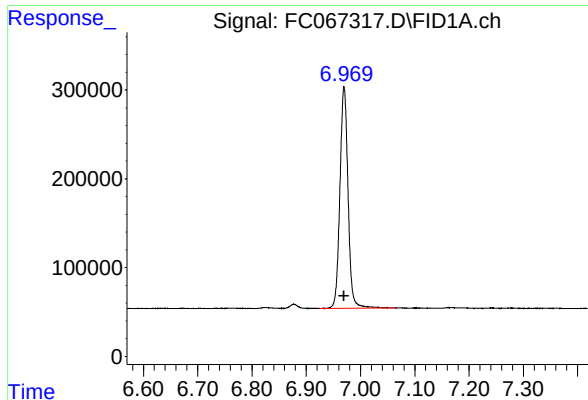
#3 A~Naphthalene (C11.7)

R.T.: 5.915 min
Delta R.T.: 0.000 min
Response: 2689038
Conc: 18.96 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.353 min
Delta R.T.: 0.000 min
Response: 2456420
Conc: 18.93 ug/ml



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

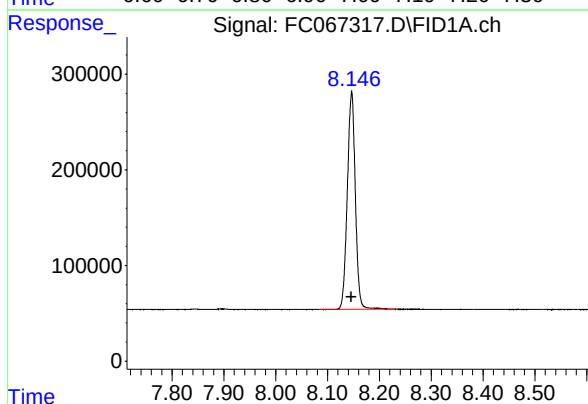
R.T.: 6.970 min
Delta R.T.: 0.000 min
Response: 2597570
Conc: 18.93 ug/ml

Instrument :

FID_C

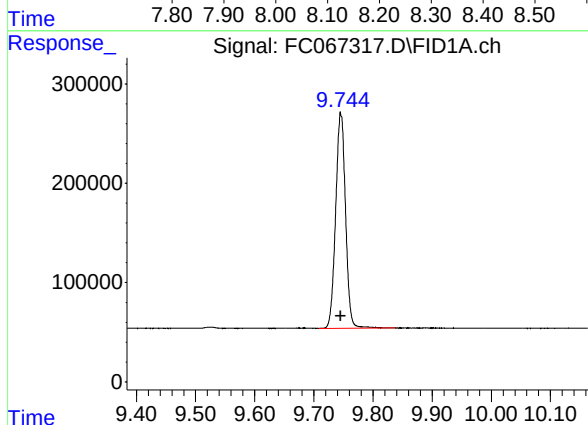
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



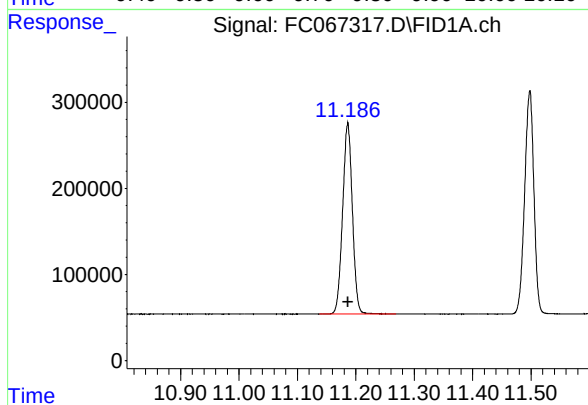
#6 n-Tetradecane (C14)

R.T.: 8.146 min
Delta R.T.: 0.000 min
Response: 2450775
Conc: 19.03 ug/ml



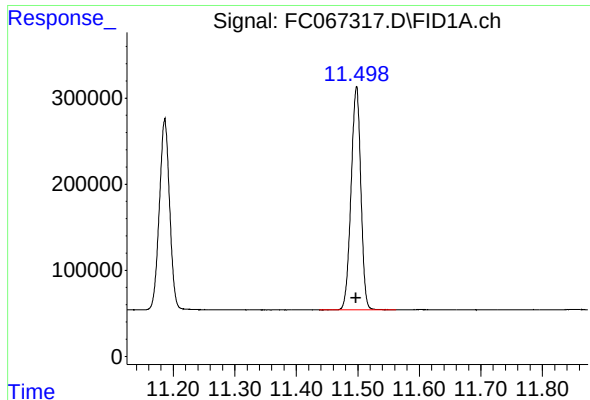
#7 n-Hexadecane (C16)

R.T.: 9.746 min
Delta R.T.: 0.000 min
Response: 2523898
Conc: 18.96 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.186 min
Delta R.T.: 0.000 min
Response: 2573183
Conc: 18.98 ug/ml



#9 ortho-Terphenyl (SURR)

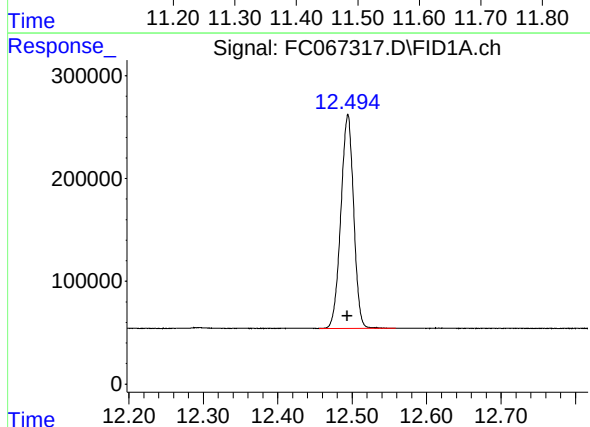
R.T.: 11.498 min
Delta R.T.: 0.000 min
Response: 2856514
Conc: 18.77 ug/ml

Instrument :

FID_C

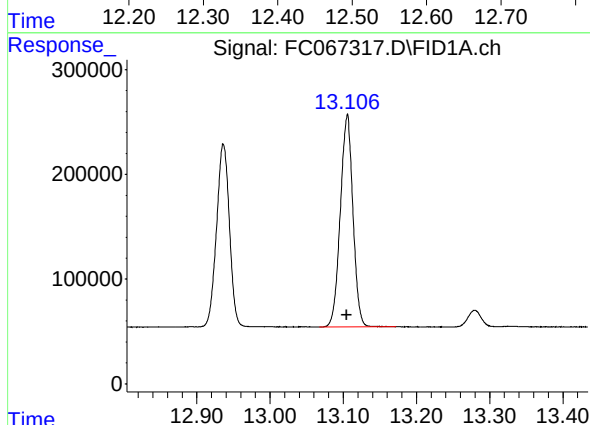
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



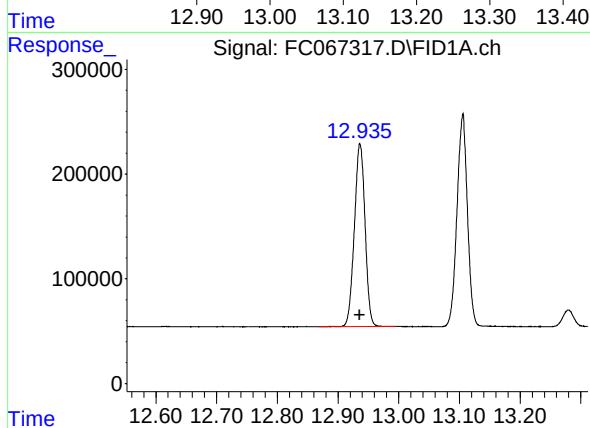
#10 n-Eicosane (C20)

R.T.: 12.494 min
Delta R.T.: 0.000 min
Response: 2485014
Conc: 19.03 ug/ml



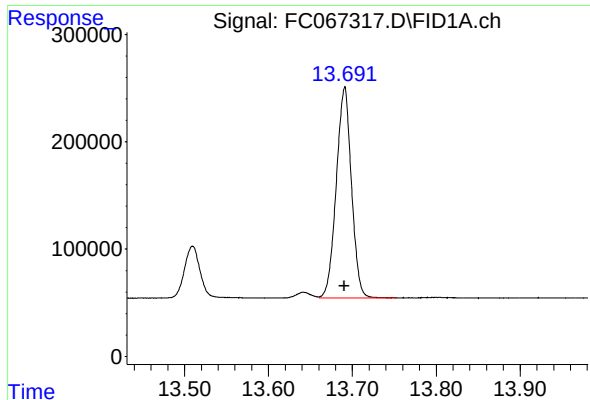
#11 n-Heneicosane (C21)

R.T.: 13.105 min
Delta R.T.: 0.000 min
Response: 2426455
Conc: 18.92 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.936 min
Delta R.T.: 0.000 min
Response: 2133568
Conc: 18.85 ug/ml



#13 n-Docosane (C22)

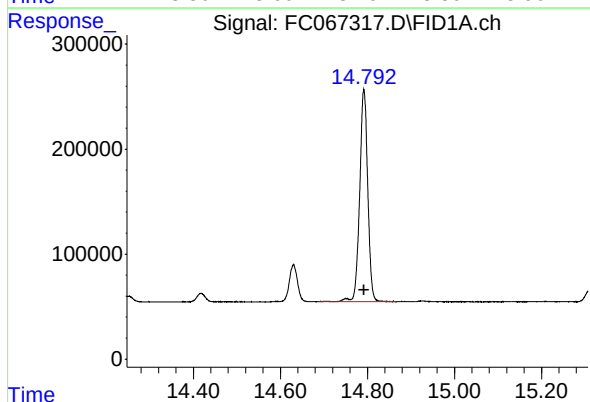
R.T.: 13.691 min
Delta R.T.: 0.000 min
Response: 2465913
Conc: 19.31 ug/ml

Instrument :

FID_C

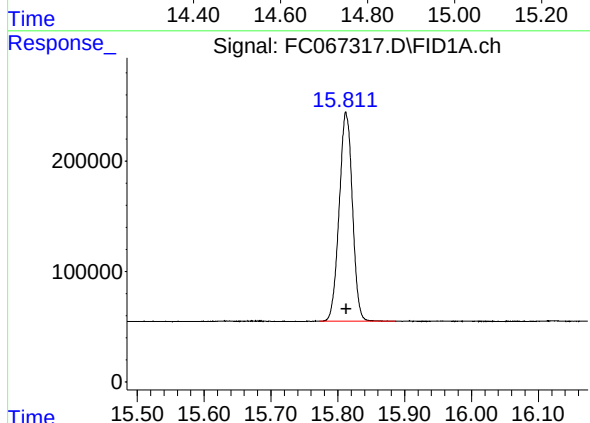
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



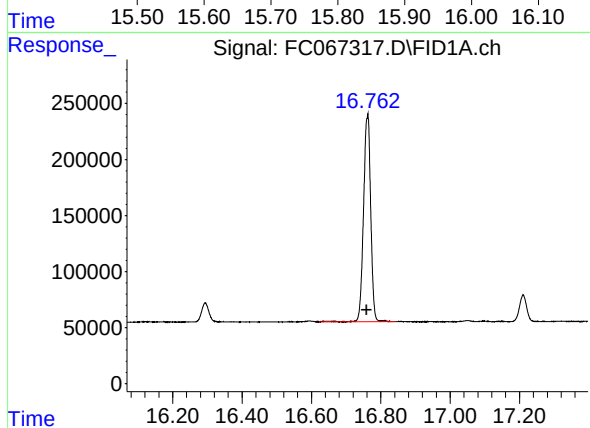
#14 n-Tetracosane (C24)

R.T.: 14.792 min
Delta R.T.: 0.000 min
Response: 2609769
Conc: 20.41 ug/ml



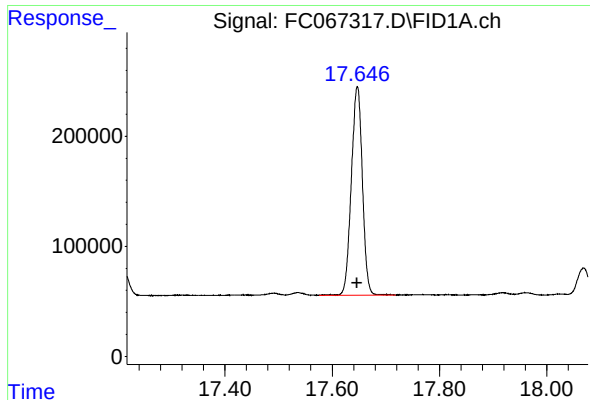
#15 n-Hexacosane (C26)

R.T.: 15.813 min
Delta R.T.: 0.000 min
Response: 2600091
Conc: 20.62 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.762 min
Delta R.T.: 0.002 min
Response: 2654837
Conc: 21.13 ug/ml



#17 n-Tricontane (C30)

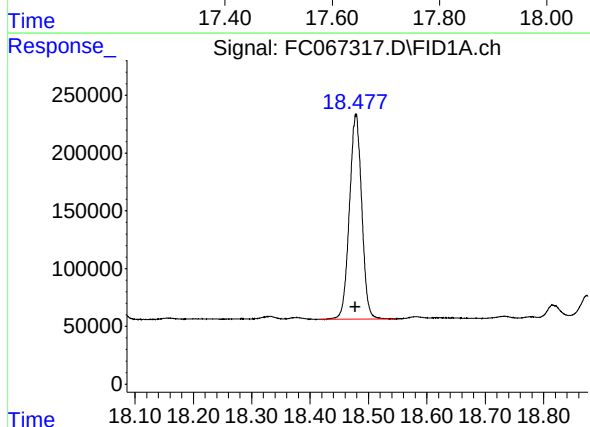
R.T.: 17.647 min
Delta R.T.: 0.000 min
Response: 2708550
Conc: 21.03 ug/ml

Instrument :

FID_C

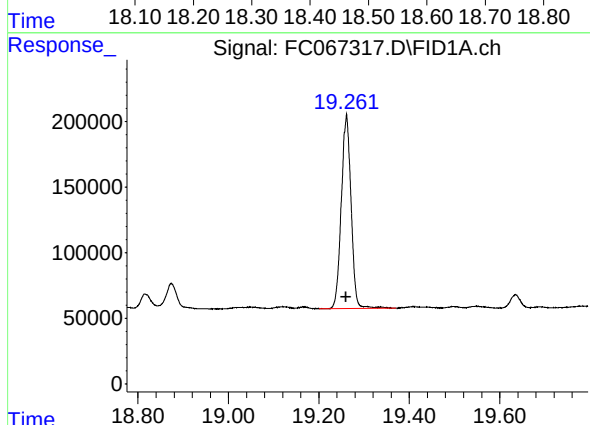
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



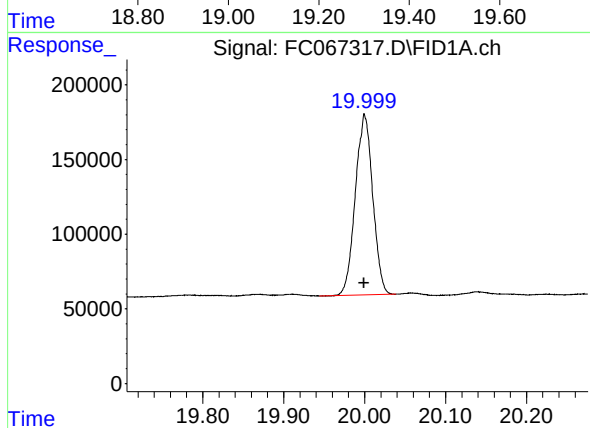
#18 n-Dotriacontane (C32)

R.T.: 18.478 min
Delta R.T.: 0.000 min
Response: 2596492
Conc: 20.78 ug/ml



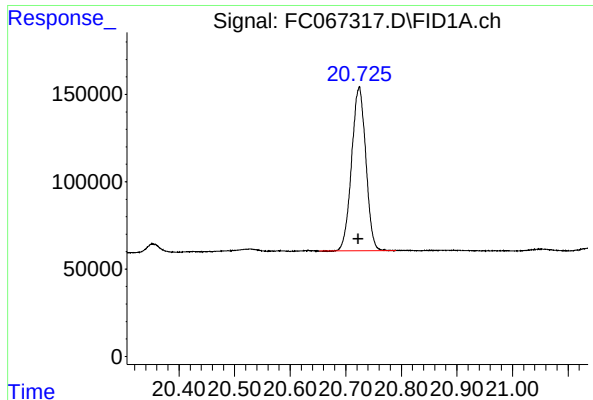
#19 n-Tetratriacontane (C34)

R.T.: 19.261 min
Delta R.T.: 0.001 min
Response: 2217081
Conc: 20.29 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.000 min
Delta R.T.: 0.000 min
Response: 1805047
Conc: 19.10 ug/ml



#21 n-Octatriacontane (C38)

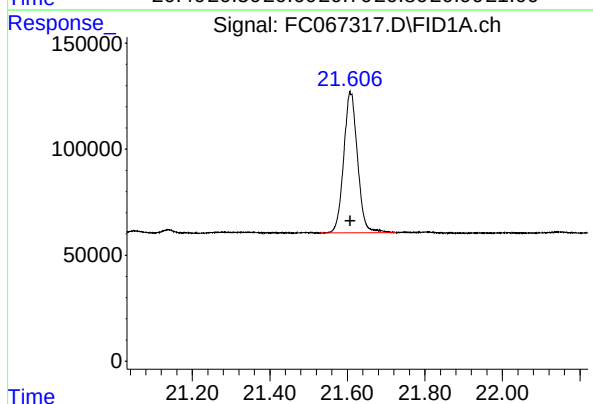
R.T.: 20.724 min
Delta R.T.: 0.000 min
Response: 1666956
Conc: 19.01 ug/ml

Instrument :

FID_C

ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.608 min
Delta R.T.: 0.000 min
Response: 1643254
Conc: 19.10 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC100224AL\
Data File : FC067317.D
Signal(s) : FID1A.ch
Acq On : 30 Sep 2024 14:29
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 100224.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	3.270	3.245	3.329	BB	288931	2407553	84.28%	4.542%
2	4.336	4.290	4.407	BB	261348	2442213	85.50%	4.607%
3	5.915	5.860	6.014	BB	287508	2689038	94.14%	5.073%
4	6.353	6.297	6.399	BB	245767	2456420	85.99%	4.634%
5	6.970	6.924	7.065	BB	249458	2597570	90.93%	4.900%
6	8.146	8.084	8.232	BB	228794	2450775	85.80%	4.623%
7	9.746	9.709	9.839	BB	216843	2523898	88.36%	4.761%
8	11.186	11.137	11.269	BB	220536	2573183	90.08%	4.854%
9	11.498	11.437	11.562	BB	258215	2856514	100.00%	5.389%
10	12.494	12.455	12.559	BB	207733	2485014	86.99%	4.688%
11	12.936	12.869	12.995	BB	173785	2133568	74.69%	4.025%
12	13.105	13.067	13.172	BB	202480	2426455	84.94%	4.577%
13	13.691	13.660	13.752	VB	195897	2465913	86.33%	4.652%
14	14.792	14.689	14.865	BB	201649	2609769	91.36%	4.923%
15	15.813	15.772	15.887	BB	189215	2600091	91.02%	4.905%
16	16.762	16.622	16.844	BB	184812	2654837	92.94%	5.008%
17	17.647	17.575	17.719	BB	189586	2708550	94.82%	5.109%
18	18.478	18.415	18.547	BV	176605	2596492	90.90%	4.898%
19	19.261	19.200	19.370	BB	146116	2217081	77.61%	4.182%
20	20.000	19.944	20.039	BV	119921	1805047	63.19%	3.405%
21	20.724	20.652	20.790	BB	93568	1666956	58.36%	3.145%
22	21.608	21.527	21.725	BB	65123	1643254	57.53%	3.100%
Sum of corrected areas:							53010189	

Aliphatic EPH 100224.M Tue Oct 01 09:22:28 2024

Initial Calibration Report for SequenceID : FE100824AL

AreaCount

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	40745791.000	21072572.000	8517410.000	4337343.000	2274924.000	
Aliphatic C12-C16	27735737.000	14244783.000	5792628.000	2930237.000	1531373.000	
Aliphatic C16-C21	40974621.000	21203318.000	8666410.000	4379658.000	2304599.000	
Aliphatic C21-C28	52777882.000	27581000.000	11356069.000	5708818.000	3125067.000	
Aliphatic C28-C40	72232829.000	38094965.000	16699677.000	8422068.000	4938401.000	
Aliphatic EPH	234466860.000	122196638.000	51032194.000	25778124.000	14174364.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	142899.9299998	4.087				
Aliphatic C12-C16	145118.273	3.694				
Aliphatic C16-C21	144401.2446664	4.356				
Aliphatic C21-C28	142154.8735	6.306				
Aliphatic C28-C40	138303.281333	12.24				
Aliphatic EPH	141698.847333	7.212				

Concentration

Parameter Range	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.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	FE050535.D	FE050536.D	FE050537.D	FE050538.D	FE050539.D	
Aliphatic C9-C12	135819.303333	140483.813333	141956.833333	144578.100000	151661.600000	
Aliphatic C12-C16	138678.685000	142447.830000	144815.700000	146511.850000	153137.300000	
Aliphatic C16-C21	136582.070000	141355.453333	144440.166666	145988.600000	153639.933333	

Initial Calibration Report for SequenceID : FE100824AL

Aliphatic C21-C28	131944.705000	137905.000000	141950.862500	142720.450000	156253.350000	
Aliphatic C28-C40	120388.048333	126983.216666	139163.975000	140367.800000	164613.366666	
Aliphatic EPH	130259.366666	135774.042222	141756.094444	143211.800000	157492.933333	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
 Data File : FE050535.D
 Signal(s) : FID1B.ch
 Acq On : 07 Oct 2024 14:06
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Oct 07 15:50:00 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 15:49:51 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)	11.874	14935989	97.121 ug/ml
Spiked Amount 50.000		Recovery =	194.24%
12) S 1-chlorooctadecane (S...	13.307	11405346	97.767 ug/ml
Spiked Amount 50.000		Recovery =	195.53%
Target Compounds			
1) T n-Nonane (C9)	3.256	13375492	97.682 ug/ml
2) T n-Decane (C10)	4.508	13622130	97.695 ug/ml
3) T A~Naphthalene (C11.7)	6.217	14355926	100.128 ug/ml
4) T n-Dodecane (C12)	6.676	13748169	97.991 ug/ml
5) T A~2-methylnaphthalene...	7.315	13570374	100.663 ug/ml
6) T n-Tetradecane (C14)	8.504	13662645	97.909 ug/ml
7) T n-Hexadecane (C16)	10.111	14073092	97.764 ug/ml
8) T n-Octadecane (C18)	11.554	14160630	97.396 ug/ml
10) T n-Eicosane (C20)	12.861	13543211	97.115 ug/ml
11) T n-Heneicosane (C21)	13.472	13270780	97.090 ug/ml
13) T n-Docosane (C22)	14.058	13205478	96.773 ug/ml
14) T n-Tetracosane (C24)	15.160	13226380	96.742 ug/ml
15) T n-Hexacosane (C26)	16.179	13147754	96.576 ug/ml
16) T n-Octacosane (C28)	17.129	13198270	95.311 ug/ml
17) T n-Tricontane (C30)	18.016	13716170	92.688 ug/ml
18) T n-Dotriacontane (C32)	18.847	13640074	91.715 ug/ml
19) T n-Tetratriacontane (C34)	19.629	12565721	92.262 ug/ml
20) T n-Hexatriacontane (C36)	20.368	11275380	94.013 ug/ml
21) T n-Octatriacontane (C38)	21.094	10872225	93.405 ug/ml
22) T n-Tetracontane (C40)	21.983	10163259	92.882 ug/ml

(f)=RT Delta > 1/2 Window

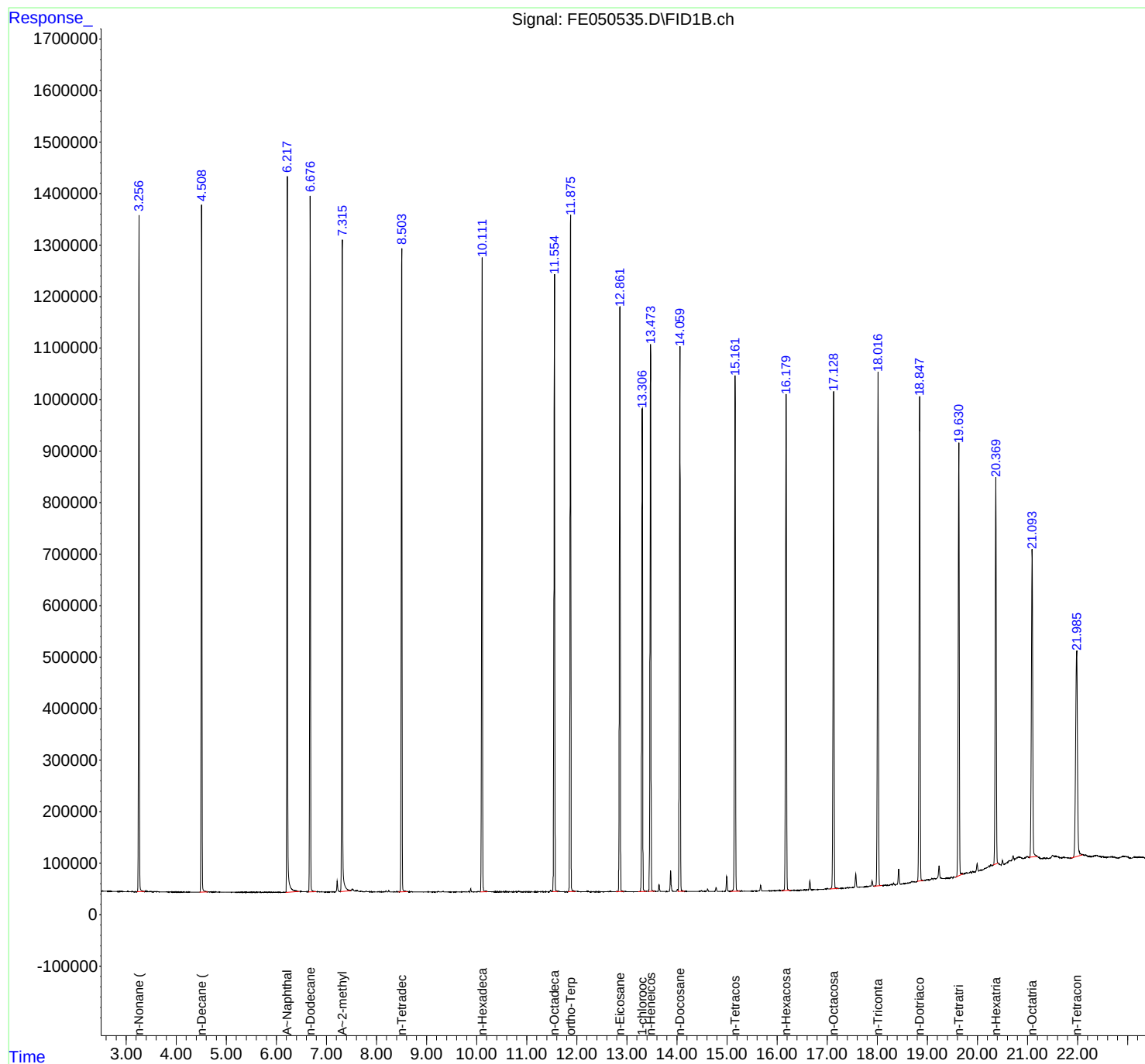
(m)=manual int.

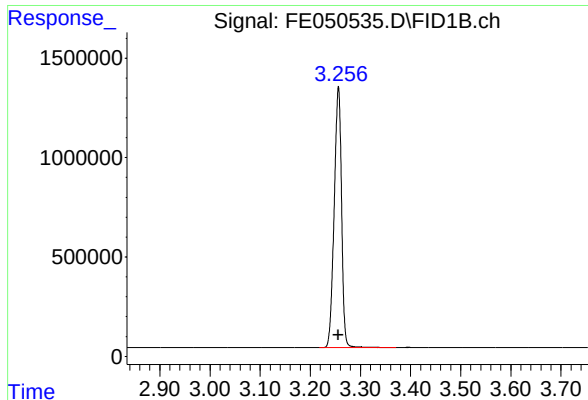
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050535.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 14:06
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Oct 07 15:50:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 15:49:51 2024
Response via : Initial Calibration
Integrator: ChemStation

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

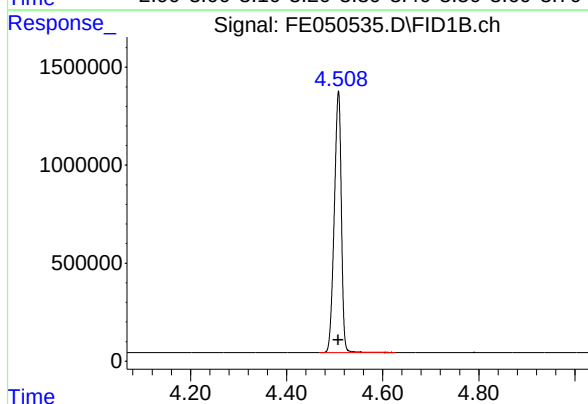




#1 n-Nonane (C9)

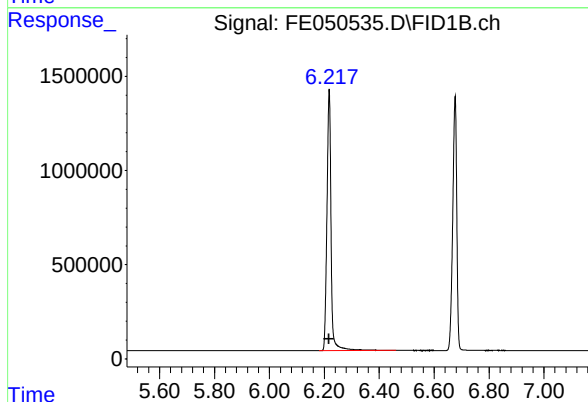
R.T.: 3.256 min
Delta R.T.: 0.000 min
Response: 13375492
Conc: 97.68 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



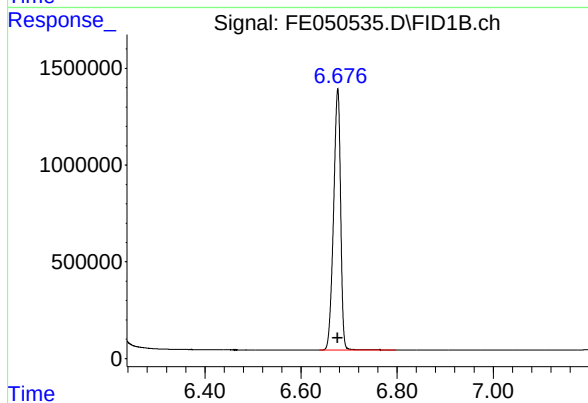
#2 n-Decane (C10)

R.T.: 4.508 min
Delta R.T.: 0.000 min
Response: 13622130
Conc: 97.70 ug/ml



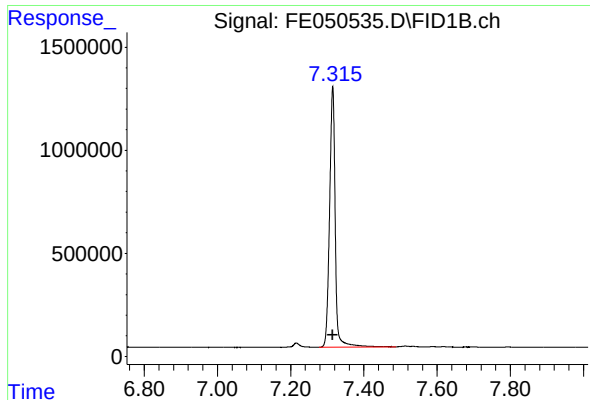
#3 A~Naphthalene (C11.7)

R.T.: 6.217 min
Delta R.T.: 0.000 min
Response: 14355926
Conc: 100.13 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.676 min
Delta R.T.: 0.000 min
Response: 13748169
Conc: 97.99 ug/ml



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

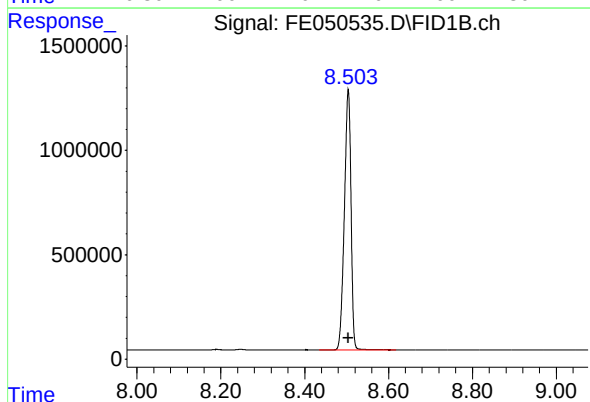
R.T.: 7.315 min
Delta R.T.: 0.000 min
Response: 13570374
Conc: 100.66 ug/ml

Instrument :

FID_E

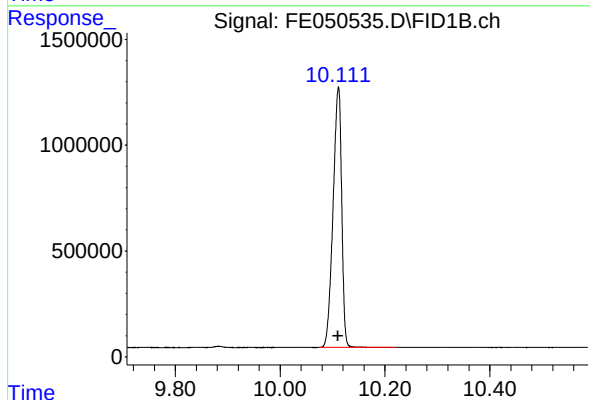
ClientSampleId :

100 PPM ALIPHATIC HC STD1



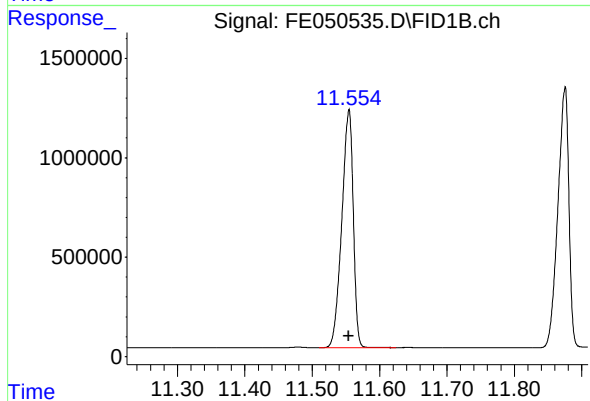
#6 n-Tetradecane (C14)

R.T.: 8.504 min
Delta R.T.: 0.000 min
Response: 13662645
Conc: 97.91 ug/ml



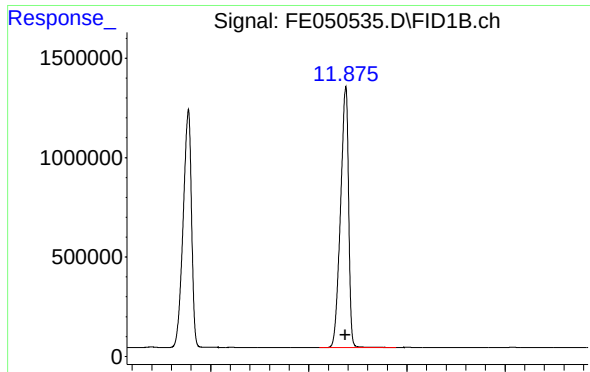
#7 n-Hexadecane (C16)

R.T.: 10.111 min
Delta R.T.: 0.000 min
Response: 14073092
Conc: 97.76 ug/ml



#8 n-Octadecane (C18)

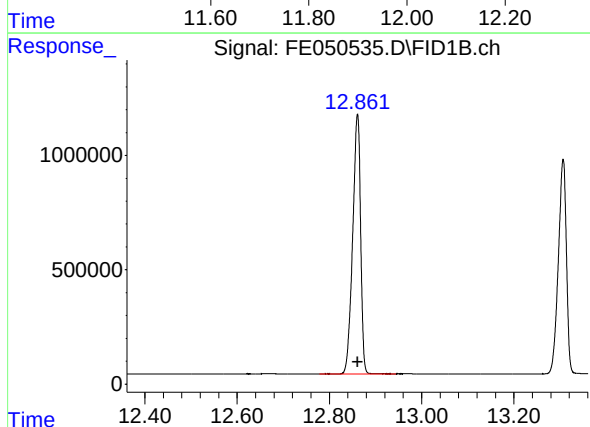
R.T.: 11.554 min
Delta R.T.: 0.000 min
Response: 14160630
Conc: 97.40 ug/ml



#9 ortho-Terphenyl (SURR)

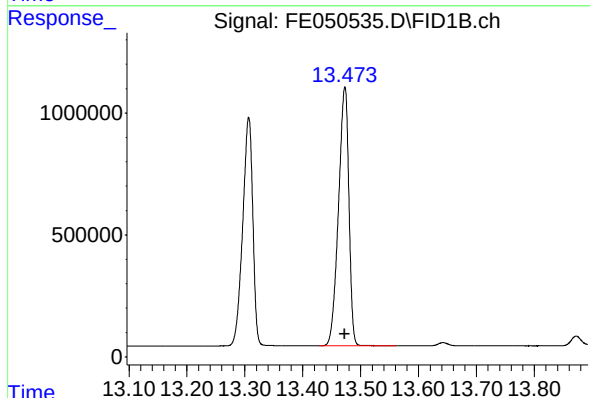
R.T.: 11.874 min
Delta R.T.: 0.000 min
Response: 14935989
Conc: 97.12 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



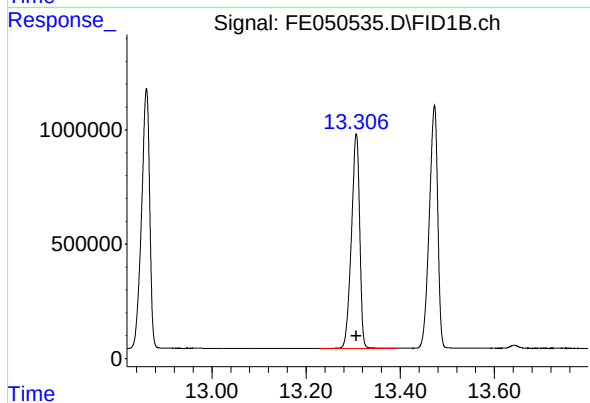
#10 n-Eicosane (C20)

R.T.: 12.861 min
Delta R.T.: 0.000 min
Response: 13543211
Conc: 97.12 ug/ml



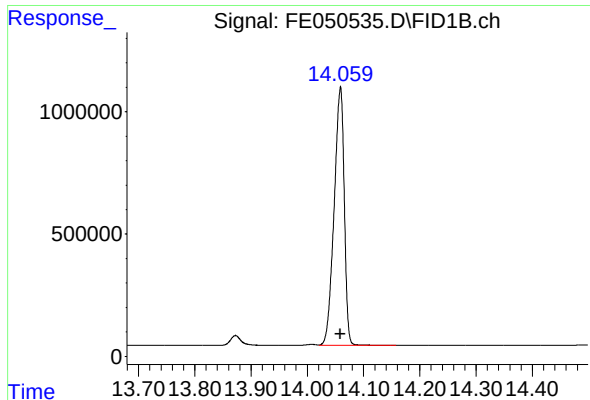
#11 n-Heneicosane (C21)

R.T.: 13.472 min
Delta R.T.: 0.000 min
Response: 13270780
Conc: 97.09 ug/ml



#12 1-chlorooctadecane (SURR)

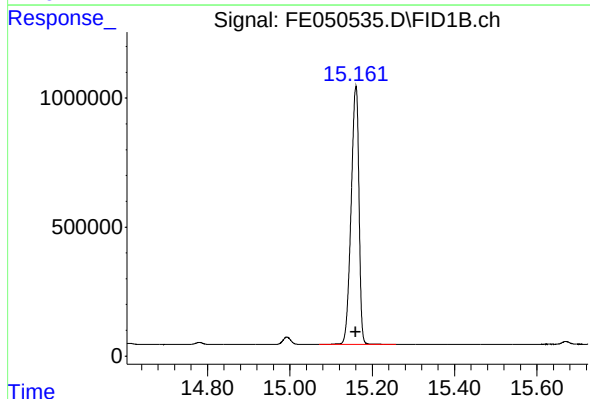
R.T.: 13.307 min
Delta R.T.: 0.000 min
Response: 11405346
Conc: 97.77 ug/ml



#13 n-Docosane (C22)

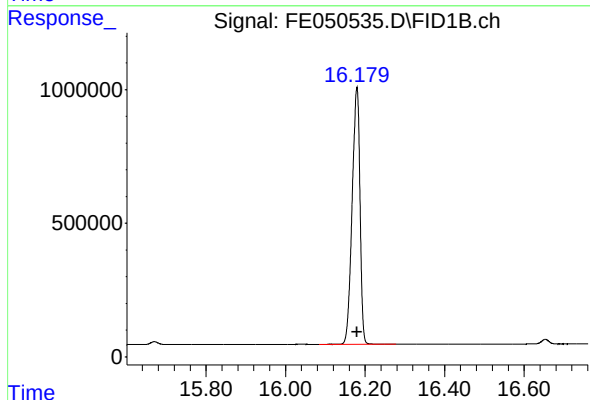
R.T.: 14.058 min
Delta R.T.: 0.000 min
Response: 13205478
Conc: 96.77 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



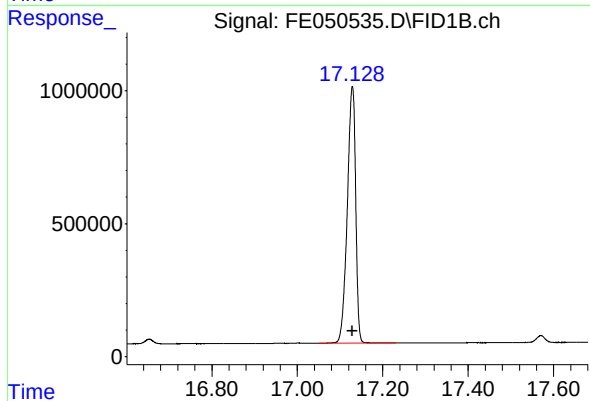
#14 n-Tetracosane (C24)

R.T.: 15.160 min
Delta R.T.: 0.000 min
Response: 13226380
Conc: 96.74 ug/ml



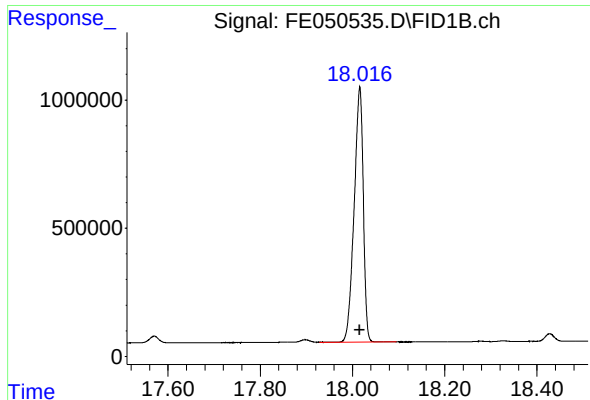
#15 n-Hexacosane (C26)

R.T.: 16.179 min
Delta R.T.: 0.000 min
Response: 13147754
Conc: 96.58 ug/ml



#16 n-Octacosane (C28)

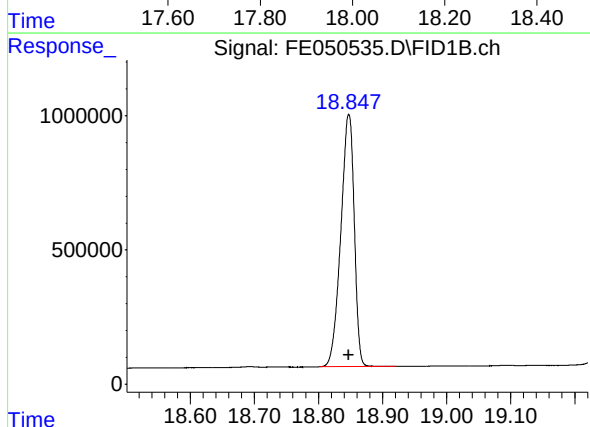
R.T.: 17.129 min
Delta R.T.: 0.000 min
Response: 13198270
Conc: 95.31 ug/ml



#17 n-Tricontane (C30)

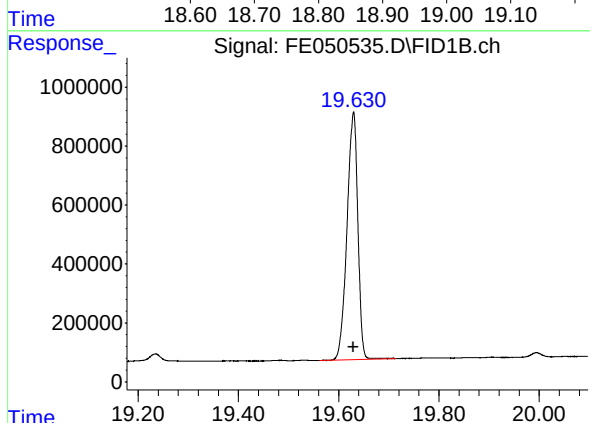
R.T.: 18.016 min
Delta R.T.: 0.000 min
Response: 13716170
Conc: 92.69 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



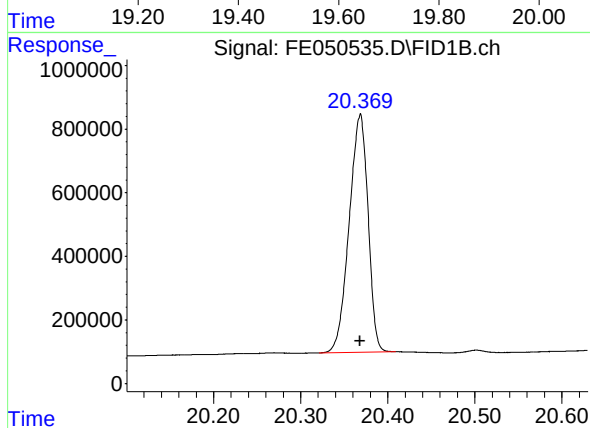
#18 n-Dotriacontane (C32)

R.T.: 18.847 min
Delta R.T.: 0.000 min
Response: 13640074
Conc: 91.72 ug/ml



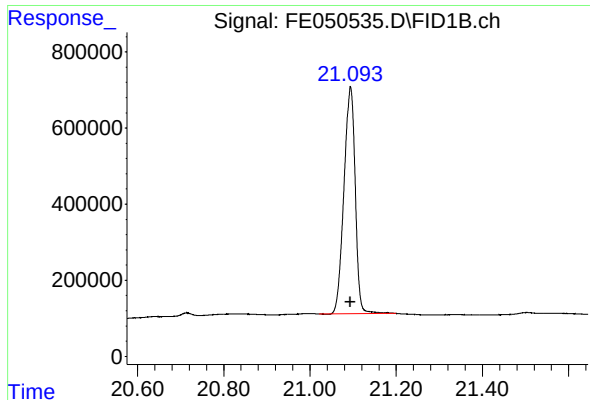
#19 n-Tetratriacontane (C34)

R.T.: 19.629 min
Delta R.T.: 0.000 min
Response: 12565721
Conc: 92.26 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.368 min
Delta R.T.: 0.000 min
Response: 11275380
Conc: 94.01 ug/ml



#21 n-Octatriacontane (C38)

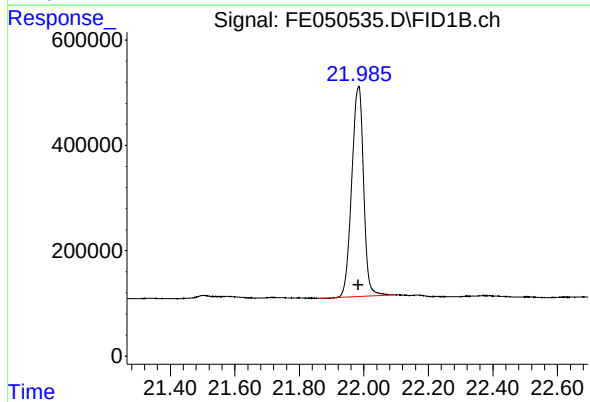
R.T.: 21.094 min
Delta R.T.: 0.000 min
Response: 10872225
Conc: 93.40 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 21.983 min
Delta R.T.: 0.000 min
Response: 10163259
Conc: 92.88 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050535.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 14:06
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.218	3.371	BB	1324173	13375492	89.55%	4.632%
2	4.508	4.468	4.628	BB	1334655	13622130	91.20%	4.718%
3	6.217	6.181	6.461	BB	1389687	14355926	96.12%	4.972%
4	6.676	6.638	6.798	BB	1369652	13748169	92.05%	4.762%
5	7.315	7.278	7.488	PV	1264853	13570374	90.86%	4.700%
6	8.504	8.434	8.618	BB	1252011	13662645	91.47%	4.732%
7	10.111	10.074	10.221	BB	1234885	14073092	94.22%	4.874%
8	11.554	11.510	11.624	PV	1196443	14160630	94.81%	4.904%
9	11.874	11.821	11.978	BV	1305138	14935989	100.00%	5.173%
10	12.861	12.778	12.944	BB	1141004	13543211	90.68%	4.691%
11	13.307	13.228	13.391	BV	945279	11405346	76.36%	3.950%
12	13.472	13.428	13.561	PB	1054961	13270780	88.85%	4.596%
13	14.058	14.021	14.158	VB	1044935	13205478	88.41%	4.574%
14	15.160	15.071	15.258	BB	1007834	13226380	88.55%	4.581%
15	16.179	16.084	16.278	BB	960164	13147754	88.03%	4.554%
16	17.129	17.051	17.231	BB	966376	13198270	88.37%	4.571%
17	18.016	17.928	18.094	PB	987186	13716170	91.83%	4.750%
18	18.847	18.801	18.921	BB	942433	13640074	91.32%	4.724%
19	19.629	19.561	19.714	BB	849738	12565721	84.13%	4.352%
20	20.368	20.321	20.409	BBA	745438	11275380	75.49%	3.905%
21	21.094	21.021	21.199	BBA	598100	10872225	72.79%	3.765%
22	21.983	21.861	22.099	BBA	399118	10163259	68.05%	3.520%
Sum of corrected areas:						288734494		

Aliphatic EPH 100824.M Mon Oct 07 16:35:00 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
 Data File : FE050536.D
 Signal(s) : FID1B.ch
 Acq On : 07 Oct 2024 14:36
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Oct 07 15:51:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 15:51:32 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

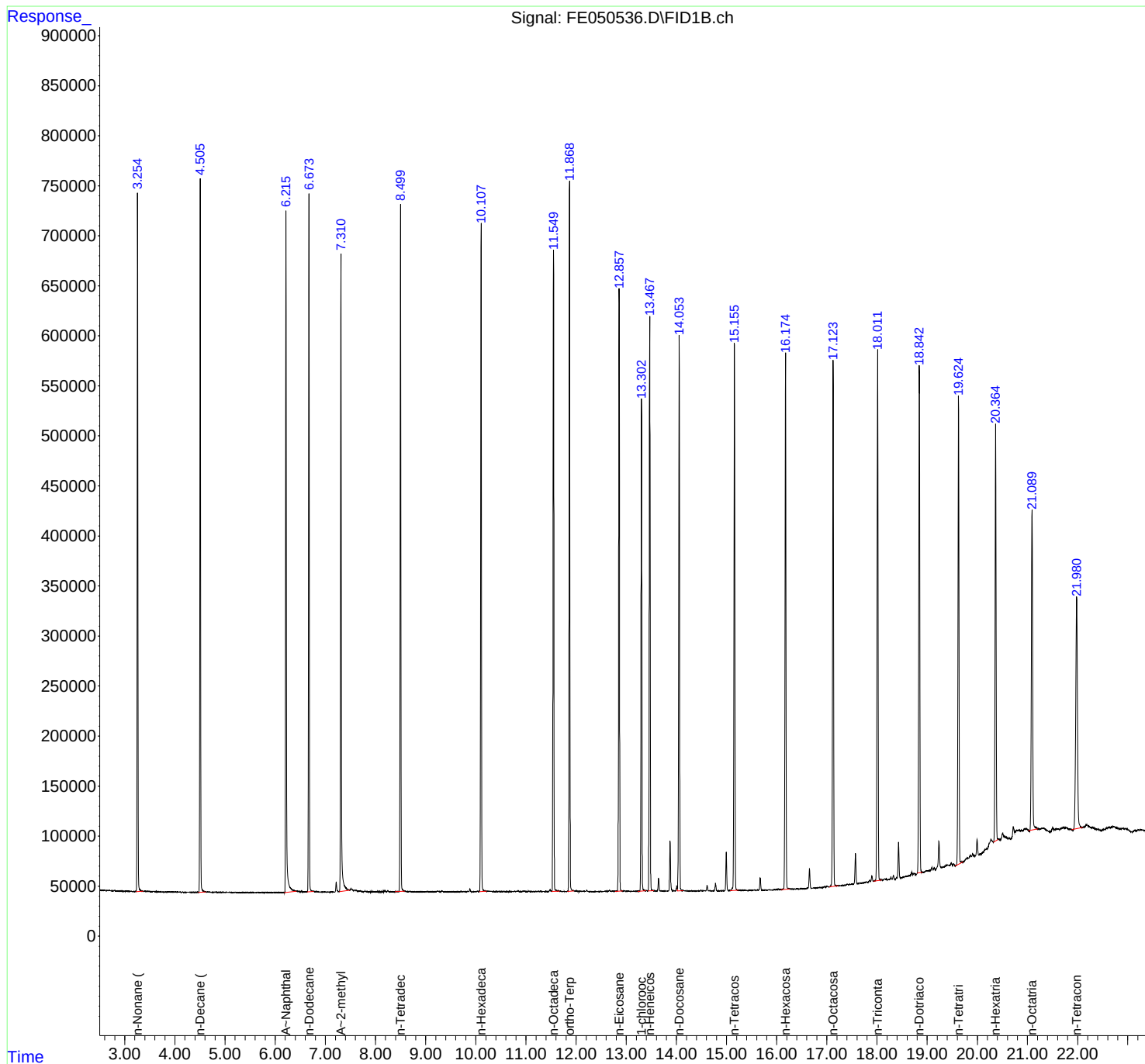
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.869	7668467	49.909 ug/ml
Spiked Amount 50.000		Recovery =	99.82%
12) S 1-chlorooctadecane (S...	13.302	5839164	50.036 ug/ml
Spiked Amount 50.000		Recovery =	100.07%
Target Compounds			
1) T n-Nonane (C9)	3.254	6949960	50.501 ug/ml
2) T n-Decane (C10)	4.505	7054723	50.395 ug/ml
3) T A~Naphthalene (C11.7)	6.215	7328645	50.738 ug/ml
4) T n-Dodecane (C12)	6.673	7067889	50.251 ug/ml
5) T A~2-methylnaphthalene...	7.311	6885410	50.712 ug/ml
6) T n-Tetradecane (C14)	8.500	6999728	50.107 ug/ml
7) T n-Hexadecane (C16)	10.106	7245055	50.220 ug/ml
8) T n-Octadecane (C18)	11.549	7346700	50.352 ug/ml
10) T n-Eicosane (C20)	12.857	7008593	50.171 ug/ml
11) T n-Heneicosane (C21)	13.467	6848025	50.067 ug/ml
13) T n-Docosane (C22)	14.053	6831662	50.043 ug/ml
14) T n-Tetracosane (C24)	15.155	6893925	50.282 ug/ml
15) T n-Hexacosane (C26)	16.174	6879086	50.352 ug/ml
16) T n-Octacosane (C28)	17.123	6976327	50.252 ug/ml
17) T n-Tricontane (C30)	18.011	7324087	49.661 ug/ml
18) T n-Dotriacontane (C32)	18.842	7246744	49.144 ug/ml
19) T n-Tetratriacontane (C34)	19.624	6582481	48.875 ug/ml
20) T n-Hexatriacontane (C36)	20.364	5833635	49.085 ug/ml
21) T n-Octatriacontane (C38)	21.090	5653192	49.036 ug/ml
22) T n-Tetracontane (C40)	21.980	5454826	49.901 ug/ml

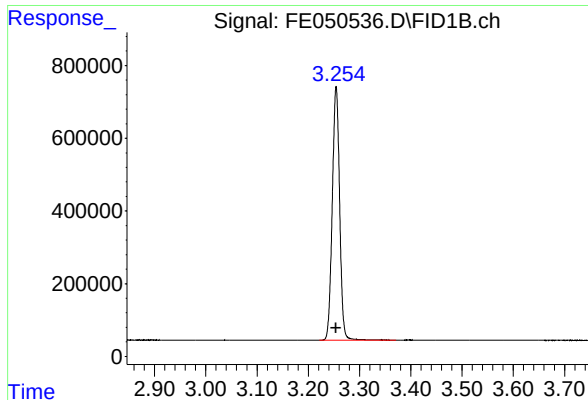
(f)=RT Delta > 1/2 Window

(m)=manual int.

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

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

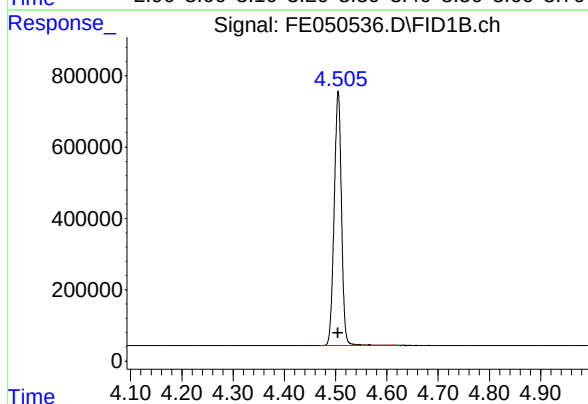




#1 n-Nonane (C9)

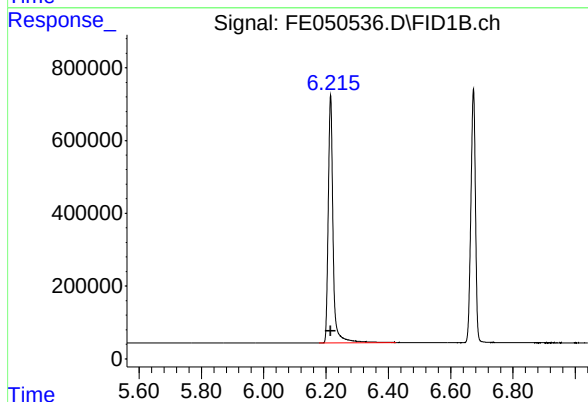
R.T.: 3.254 min
Delta R.T.: 0.000 min
Response: 6949960
Conc: 50.50 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



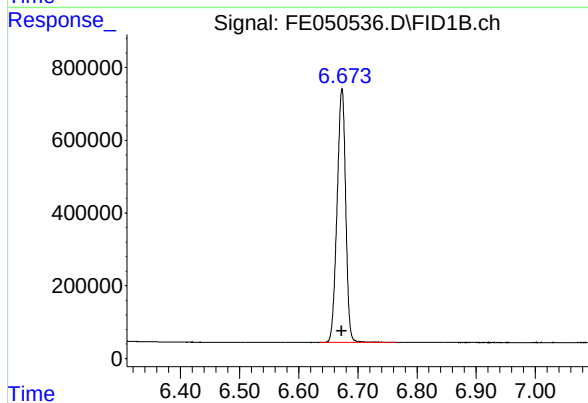
#2 n-Decane (C10)

R.T.: 4.505 min
Delta R.T.: 0.000 min
Response: 7054723
Conc: 50.40 ug/ml



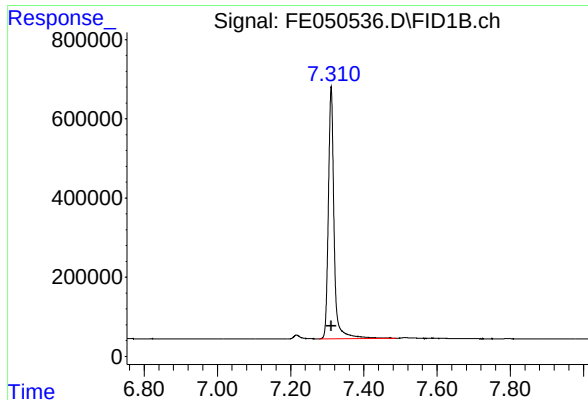
#3 A~Naphthalene (C11.7)

R.T.: 6.215 min
Delta R.T.: 0.000 min
Response: 7328645
Conc: 50.74 ug/ml



#4 n-Dodecane (C12)

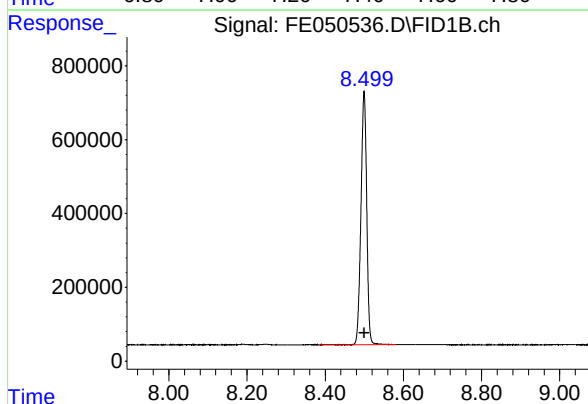
R.T.: 6.673 min
Delta R.T.: 0.000 min
Response: 7067889
Conc: 50.25 ug/ml



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

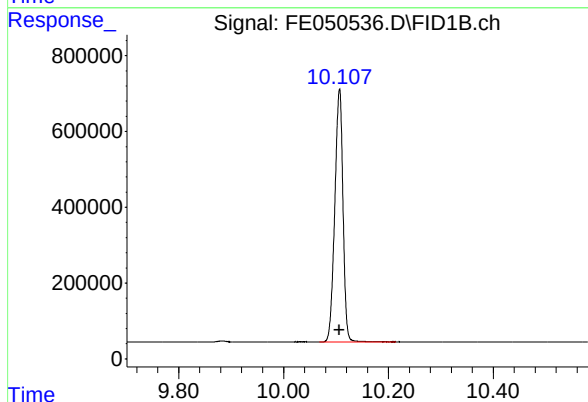
R.T.: 7.311 min
Delta R.T.: 0.000 min
Response: 6885410
Conc: 50.71 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



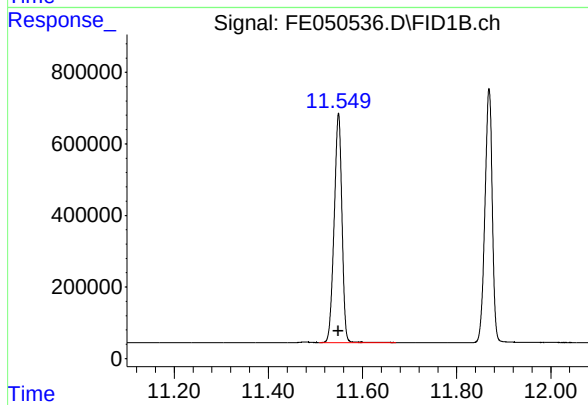
#6 n-Tetradecane (C14)

R.T.: 8.500 min
Delta R.T.: 0.000 min
Response: 6999728
Conc: 50.11 ug/ml



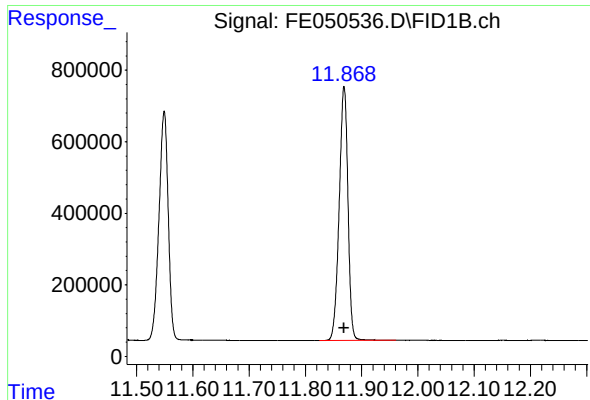
#7 n-Hexadecane (C16)

R.T.: 10.106 min
Delta R.T.: 0.000 min
Response: 7245055
Conc: 50.22 ug/ml



#8 n-Octadecane (C18)

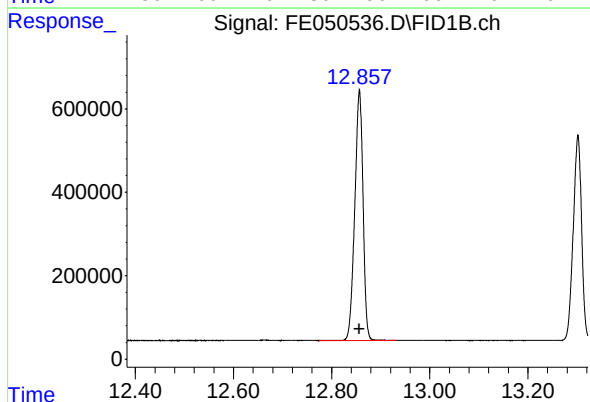
R.T.: 11.549 min
Delta R.T.: 0.000 min
Response: 7346700
Conc: 50.35 ug/ml



#9 ortho-Terphenyl (SURR)

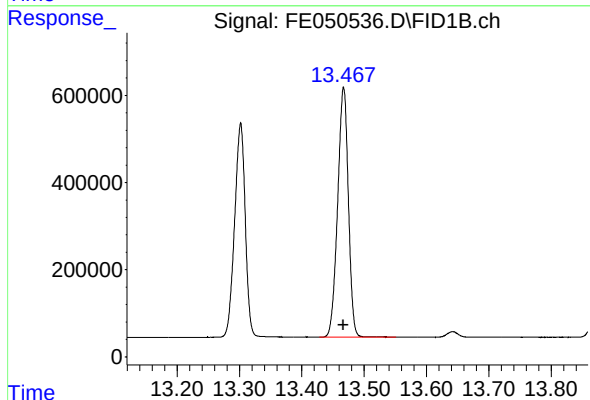
R.T.: 11.869 min
Delta R.T.: 0.000 min
Response: 7668467
Conc: 49.91 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



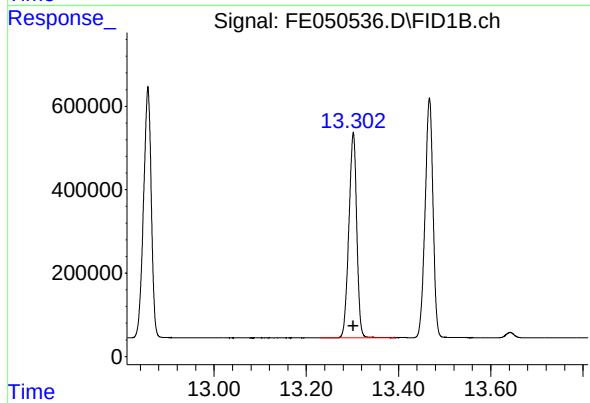
#10 n-Eicosane (C20)

R.T.: 12.857 min
Delta R.T.: 0.000 min
Response: 7008593
Conc: 50.17 ug/ml



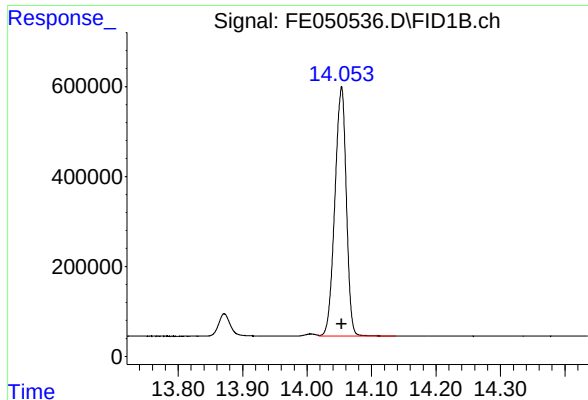
#11 n-Heneicosane (C21)

R.T.: 13.467 min
Delta R.T.: 0.000 min
Response: 6848025
Conc: 50.07 ug/ml



#12 1-chlorooctadecane (SURR)

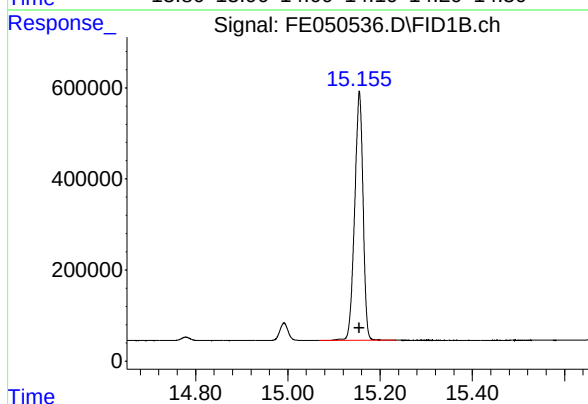
R.T.: 13.302 min
Delta R.T.: 0.000 min
Response: 5839164
Conc: 50.04 ug/ml



#13 n-Docosane (C22)

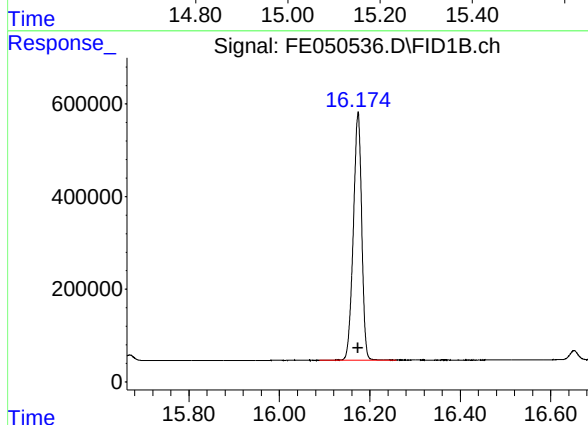
R.T.: 14.053 min
Delta R.T.: 0.000 min
Response: 6831662
Conc: 50.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



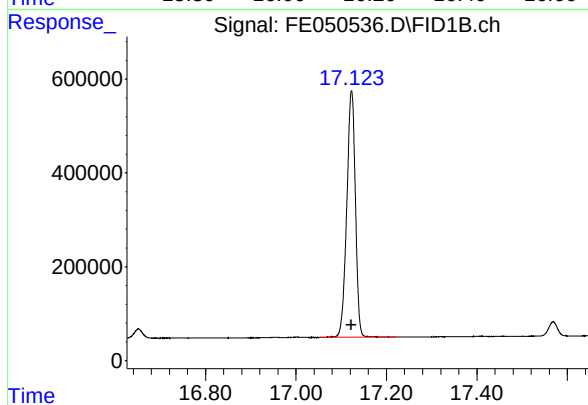
#14 n-Tetracosane (C24)

R.T.: 15.155 min
Delta R.T.: 0.000 min
Response: 6893925
Conc: 50.28 ug/ml



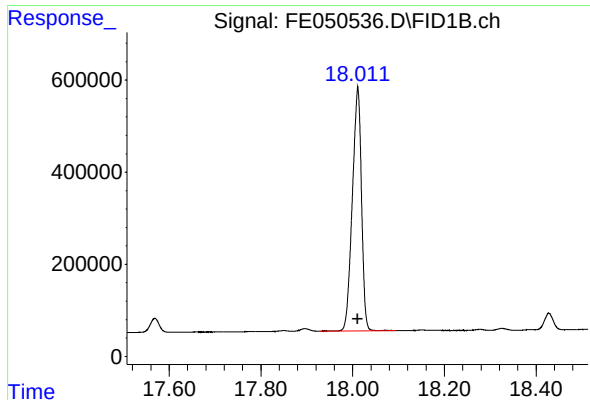
#15 n-Hexacosane (C26)

R.T.: 16.174 min
Delta R.T.: 0.000 min
Response: 6879086
Conc: 50.35 ug/ml



#16 n-Octacosane (C28)

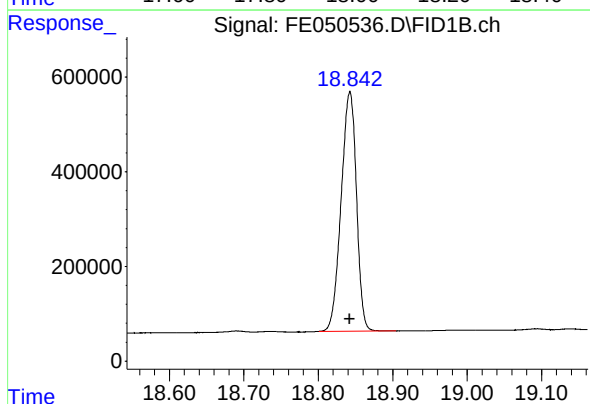
R.T.: 17.123 min
Delta R.T.: 0.000 min
Response: 6976327
Conc: 50.25 ug/ml



#17 n-Tricontane (C30)

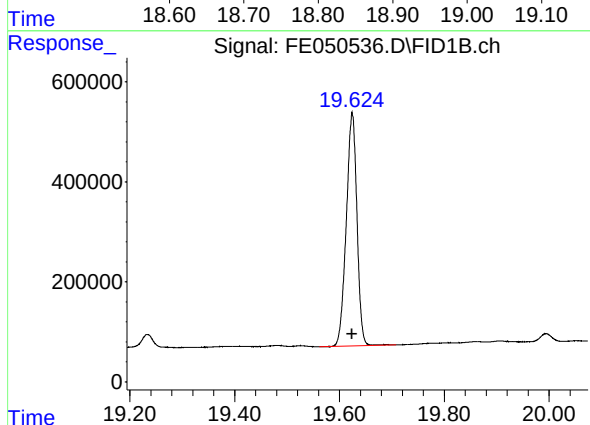
R.T.: 18.011 min
Delta R.T.: 0.000 min
Response: 7324087
Conc: 49.66 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



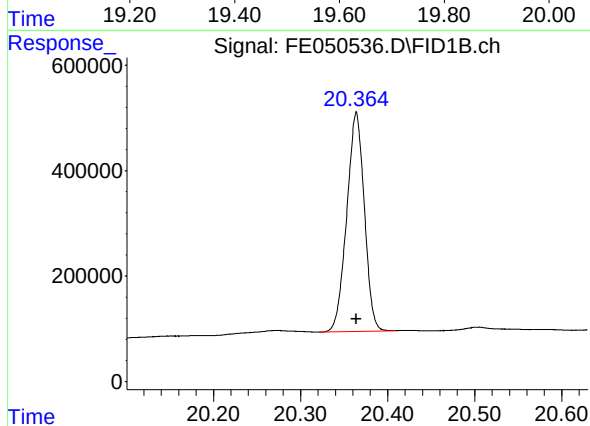
#18 n-Dotriacontane (C32)

R.T.: 18.842 min
Delta R.T.: 0.000 min
Response: 7246744
Conc: 49.14 ug/ml



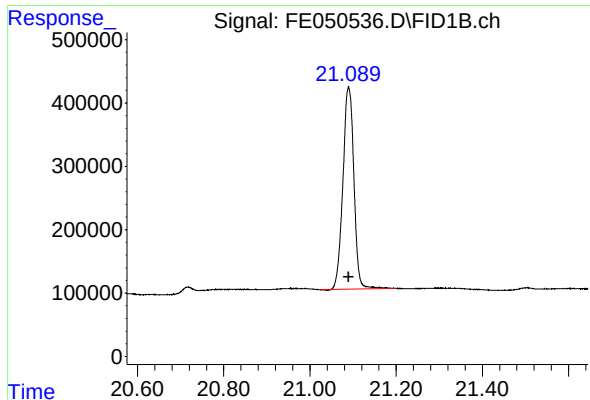
#19 n-Tetatriacontane (C34)

R.T.: 19.624 min
Delta R.T.: 0.000 min
Response: 6582481
Conc: 48.87 ug/ml



#20 n-Hexatriacontane (C36)

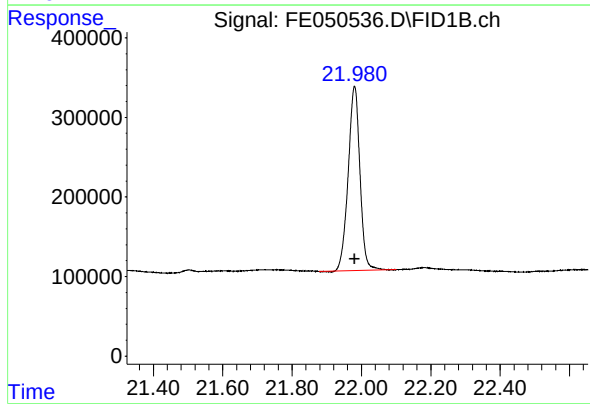
R.T.: 20.364 min
Delta R.T.: 0.000 min
Response: 5833635
Conc: 49.09 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.090 min
Delta R.T.: 0.000 min
Response: 5653192
Conc: 49.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 21.980 min
Delta R.T.: 0.000 min
Response: 5454826
Conc: 49.90 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050536.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 14:36
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.221	3.371	BB	696678	6949960	90.63%	4.636%
2	4.505	4.468	4.618	BB	709894	7054723	92.00%	4.706%
3	6.215	6.178	6.424	BB	680238	7328645	95.57%	4.888%
4	6.673	6.634	6.764	BB	704403	7067889	92.17%	4.714%
5	7.311	7.278	7.488	PV	637269	6885410	89.79%	4.593%
6	8.500	8.384	8.581	BB	683389	6999728	91.28%	4.669%
7	10.106	10.068	10.214	BB	676338	7245055	94.48%	4.833%
8	11.549	11.508	11.671	VB	636950	7346700	95.80%	4.900%
9	11.869	11.824	11.961	BB	709474	7668467	100.00%	5.115%
10	12.857	12.774	12.931	BB	601442	7008593	91.39%	4.675%
11	13.302	13.228	13.394	BB	488293	5839164	76.15%	3.895%
12	13.467	13.428	13.551	BB	574970	6848025	89.30%	4.568%
13	14.053	14.018	14.138	VB	559199	6831662	89.09%	4.557%
14	15.155	15.068	15.234	BB	545336	6893925	89.90%	4.598%
15	16.174	16.088	16.258	BB	536276	6879086	89.71%	4.589%
16	17.123	17.051	17.221	BB	528256	6976327	90.97%	4.653%
17	18.011	17.927	18.094	PB	529796	7324087	95.51%	4.885%
18	18.842	18.801	18.904	BB	503954	7246744	94.50%	4.834%
19	19.624	19.561	19.708	BB	466127	6582481	85.84%	4.391%
20	20.364	20.321	20.409	BBA	415446	5833635	76.07%	3.891%
21	21.090	21.021	21.199	BBA	318153	5653192	73.72%	3.771%
22	21.980	21.878	22.099	BBA	231697	5454826	71.13%	3.639%
Sum of corrected areas:						149918324		

Aliphatic EPH 100824.M Mon Oct 07 16:35:43 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
 Data File : FE050537.D
 Signal(s) : FID1B.ch
 Acq On : 07 Oct 2024 15:06
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Oct 07 15:48:35 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 15:48:28 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

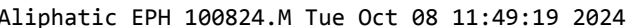
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.865	3164300	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.300	2385261	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.252	2802051	20.000 ug/ml
2) T n-Decane (C10)	4.503	2852963	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.214	2863853	20.000 ug/ml
4) T n-Dodecane (C12)	6.671	2862396	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.310	2678310	20.000 ug/ml
6) T n-Tetradecane (C14)	8.498	2849272	20.000 ug/ml
7) T n-Hexadecane (C16)	10.103	2943356	20.000 ug/ml
8) T n-Octadecane (C18)	11.546	2983567	20.000 ug/ml
10) T n-Eicosane (C20)	12.853	2869562	20.000 ug/ml
11) T n-Heneicosane (C21)	13.465	2813281	20.000 ug/ml
13) T n-Docosane (C22)	14.050	2817220	20.000 ug/ml
14) T n-Tetracosane (C24)	15.151	2823423	20.000 ug/ml
15) T n-Hexacosane (C26)	16.171	2816031	20.000 ug/ml
16) T n-Octacosane (C28)	17.120	2899395	20.000 ug/ml
17) T n-Tricontane (C30)	18.007	3176058	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.840	3220879	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.621	2934710	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.361	2542299	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.086	2481528	20.000 ug/ml
22) T n-Tetracontane (C40)	21.974	2344203	20.000 ug/ml

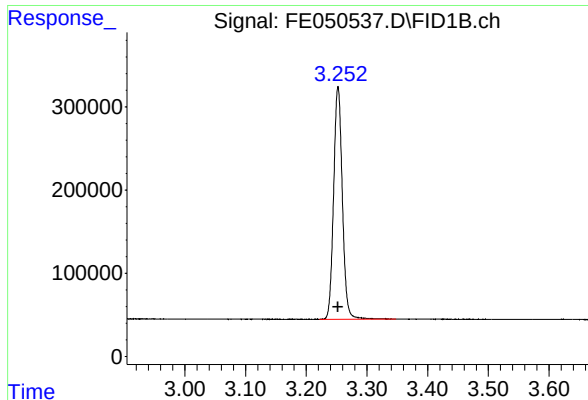
(f)=RT Delta > 1/2 Window

(m)=manual int.

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

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

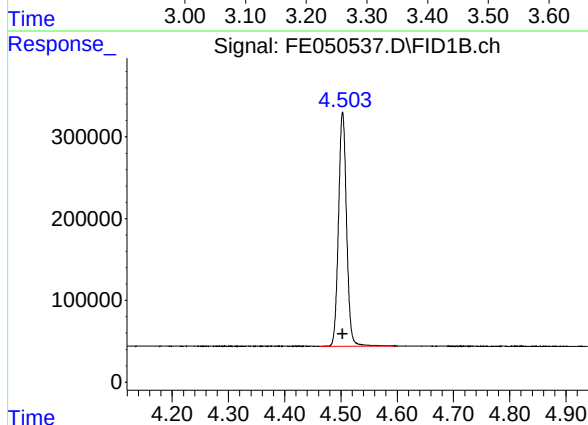




#1 n-Nonane (C9)

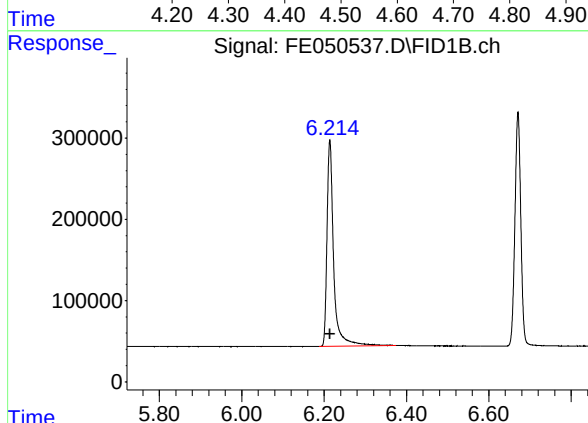
R.T.: 3.252 min
Delta R.T.: 0.000 min
Response: 2802051
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



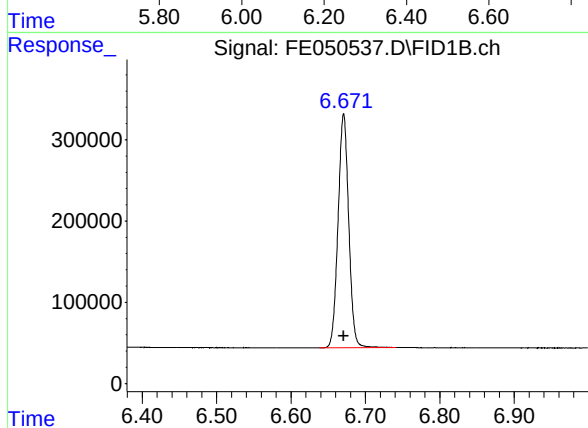
#2 n-Decane (C10)

R.T.: 4.503 min
Delta R.T.: 0.000 min
Response: 2852963
Conc: 20.00 ug/ml



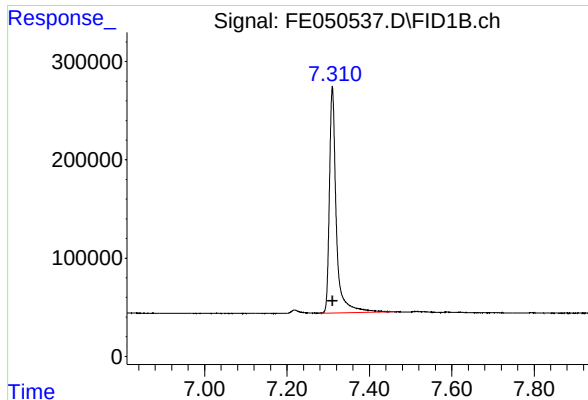
#3 A~Naphthalene (C11.7)

R.T.: 6.214 min
Delta R.T.: 0.000 min
Response: 2863853
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

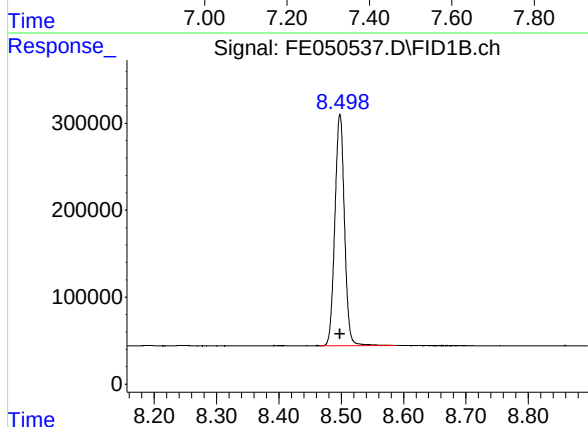
R.T.: 6.671 min
Delta R.T.: 0.000 min
Response: 2862396
Conc: 20.00 ug/ml



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

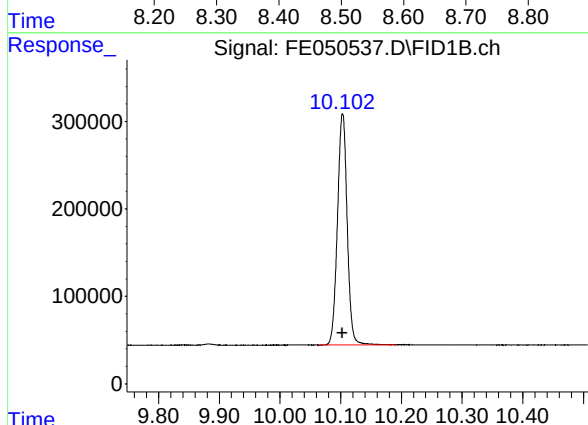
R.T.: 7.310 min
Delta R.T.: 0.000 min
Response: 2678310
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



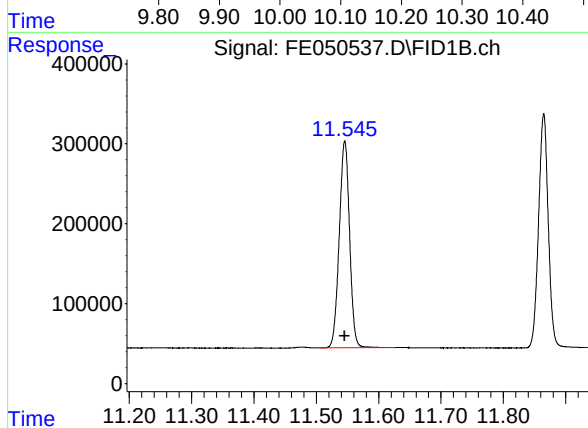
#6 n-Tetradecane (C14)

R.T.: 8.498 min
Delta R.T.: 0.000 min
Response: 2849272
Conc: 20.00 ug/ml



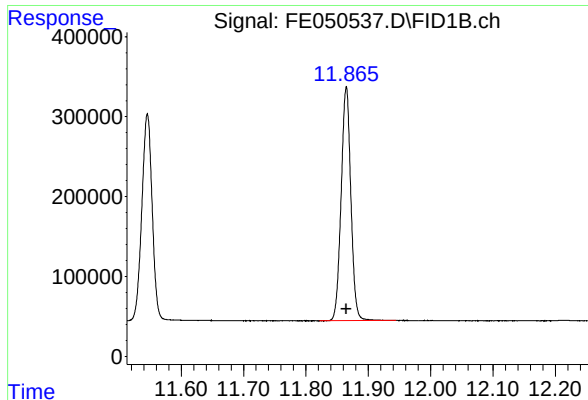
#7 n-Hexadecane (C16)

R.T.: 10.103 min
Delta R.T.: 0.000 min
Response: 2943356
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

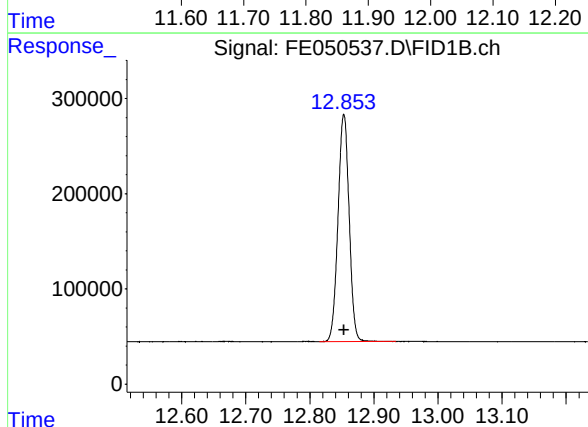
R.T.: 11.546 min
Delta R.T.: 0.000 min
Response: 2983567
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

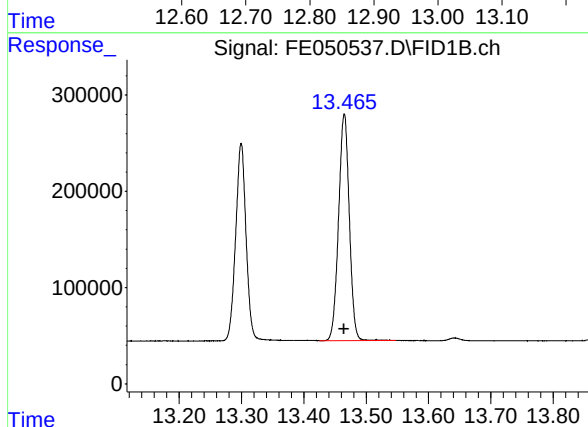
R.T.: 11.865 min
Delta R.T.: 0.000 min
Response: 3164300
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



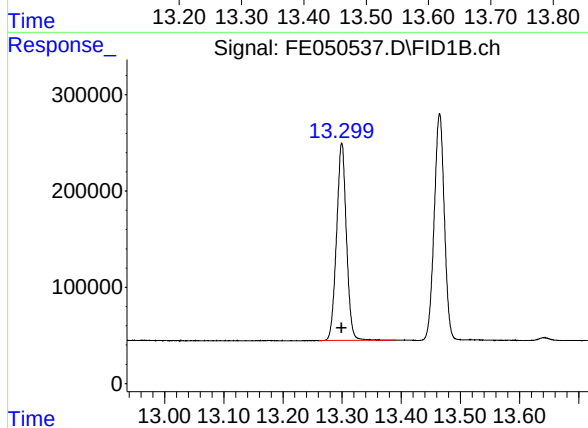
#10 n-Eicosane (C20)

R.T.: 12.853 min
Delta R.T.: 0.000 min
Response: 2869562
Conc: 20.00 ug/ml



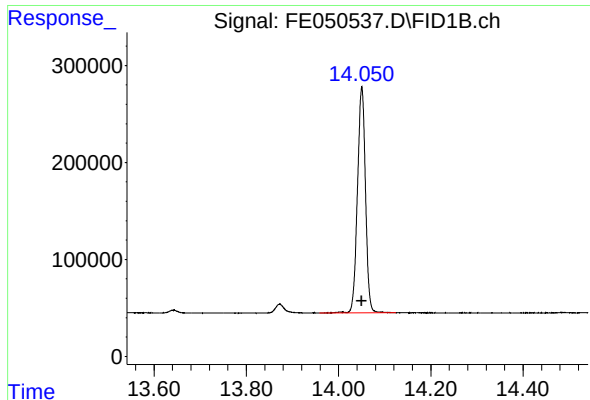
#11 n-Heneicosane (C21)

R.T.: 13.465 min
Delta R.T.: 0.000 min
Response: 2813281
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

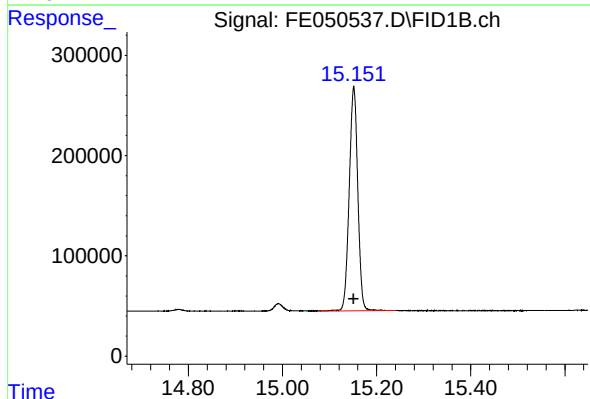
R.T.: 13.300 min
Delta R.T.: 0.000 min
Response: 2385261
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

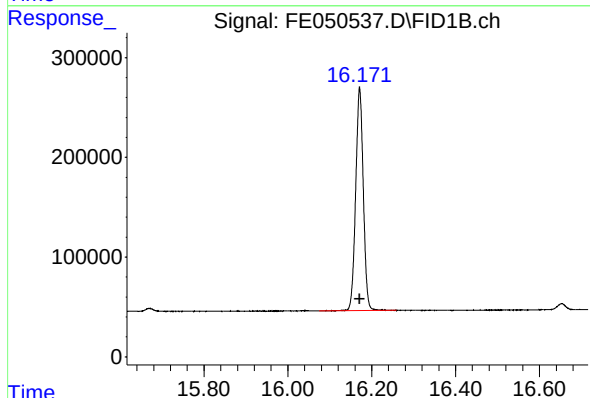
R.T.: 14.050 min
Delta R.T.: 0.000 min
Response: 2817220
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



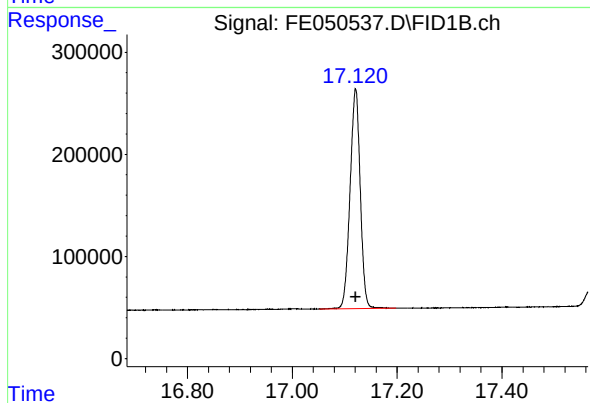
#14 n-Tetracosane (C24)

R.T.: 15.151 min
Delta R.T.: 0.000 min
Response: 2823423
Conc: 20.00 ug/ml



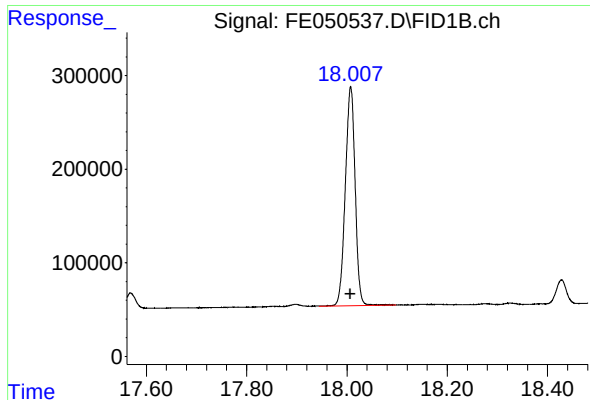
#15 n-Hexacosane (C26)

R.T.: 16.171 min
Delta R.T.: 0.000 min
Response: 2816031
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

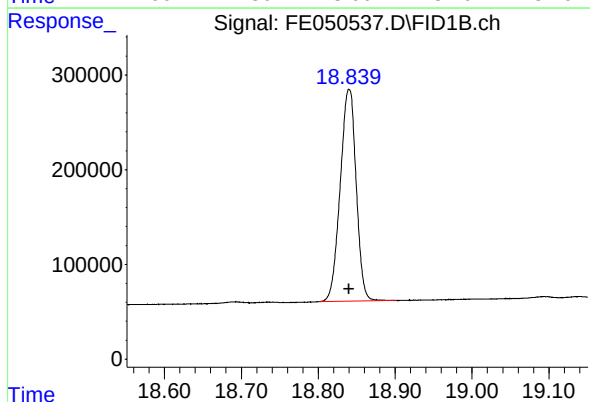
R.T.: 17.120 min
Delta R.T.: 0.000 min
Response: 2899395
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

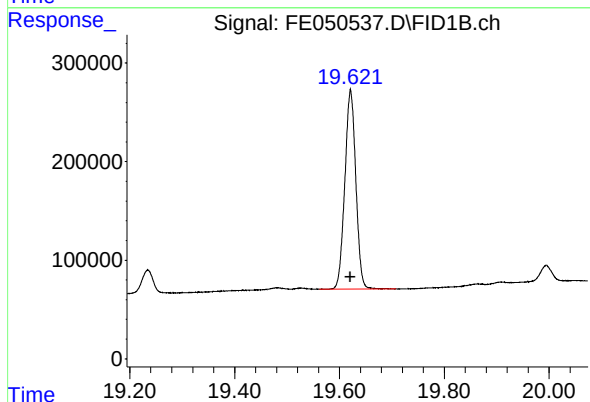
R.T.: 18.007 min
Delta R.T.: 0.000 min
Response: 3176058
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



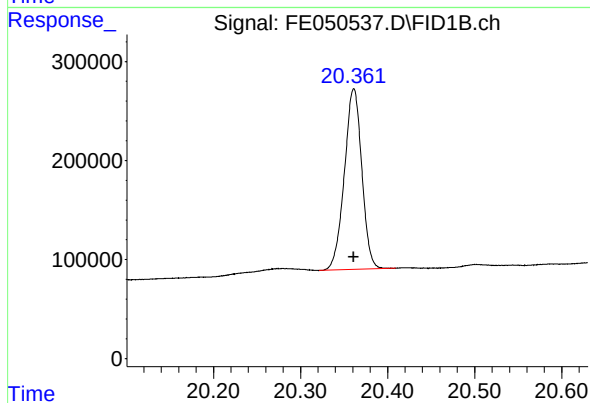
#18 n-Dotriacontane (C32)

R.T.: 18.840 min
Delta R.T.: 0.000 min
Response: 3220879
Conc: 20.00 ug/ml



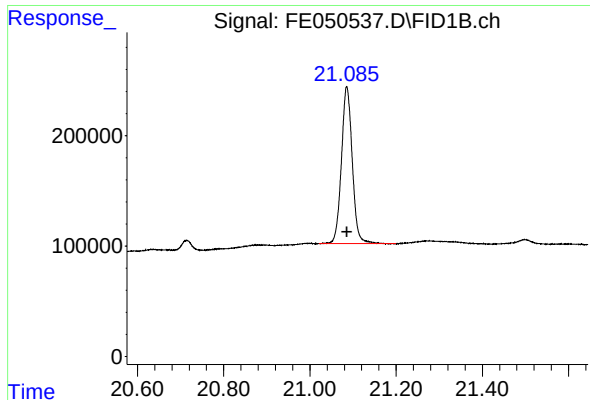
#19 n-Tetatriacontane (C34)

R.T.: 19.621 min
Delta R.T.: 0.000 min
Response: 2934710
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

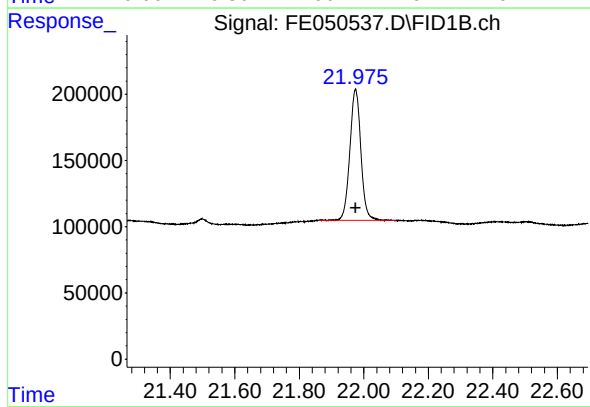
R.T.: 20.361 min
Delta R.T.: 0.000 min
Response: 2542299
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.086 min
Delta R.T.: 0.000 min
Response: 2481528
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 21.974 min
Delta R.T.: 0.000 min
Response: 2344203
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050537.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 15:06
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.221	3.348	BB	278890	2802051	87.00%	4.510%
2	4.503	4.461	4.598	BB	285202	2852963	88.58%	4.592%
3	6.214	6.188	6.374	BB	253669	2863853	88.92%	4.610%
4	6.671	6.638	6.741	BB	287721	2862396	88.87%	4.608%
5	7.310	7.278	7.464	BB	228423	2678310	83.15%	4.311%
6	8.498	8.464	8.588	BB	266356	2849272	88.46%	4.586%
7	10.103	10.064	10.191	BB	266110	2943356	91.38%	4.738%
8	11.546	11.504	11.628	BB	258038	2983567	92.63%	4.803%
9	11.865	11.821	11.944	BB	292339	3164300	98.24%	5.094%
10	12.853	12.814	12.934	BB	239829	2869562	89.09%	4.619%
11	13.300	13.261	13.391	BB	206276	2385261	74.06%	3.840%
12	13.465	13.424	13.548	BB	235274	2813281	87.35%	4.528%
13	14.050	13.958	14.124	BB	234213	2817220	87.47%	4.535%
14	15.151	15.078	15.241	BB	223761	2823423	87.66%	4.545%
15	16.171	16.074	16.258	BB	223622	2816031	87.43%	4.533%
16	17.120	17.051	17.198	BB	216983	2899395	90.02%	4.667%
17	18.007	17.944	18.098	BB	235301	3176058	98.61%	5.112%
18	18.840	18.801	18.901	BB	226230	3220879	100.00%	5.185%
19	19.621	19.561	19.708	BB	201438	2934710	91.12%	4.724%
20	20.361	20.321	20.409	BBA	182901	2542299	78.93%	4.092%
21	21.086	21.021	21.199	BBA	142625	2481528	77.05%	3.994%
22	21.974	21.861	22.099	BBA	99090	2344203	72.78%	3.773%
Sum of corrected areas:							62123918	

Aliphatic EPH 100824.M Mon Oct 07 16:36:17 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
 Data File : FE050538.D
 Signal(s) : FID1B.ch
 Acq On : 07 Oct 2024 15:37
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/08/2024
 Supervised By :Ankita Jodhani 10/08/2024

Integration File: autoint1.e
 Quant Time: Oct 07 16:03:16 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:03:08 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)	11.864	1598249	10.299 ug/ml
Spiked Amount 50.000		Recovery =	20.60%
12) S 1-chlorooctadecane (S...	13.298	1184740	10.114 ug/ml
Spiked Amount 50.000		Recovery =	20.23%
Target Compounds			
1) T n-Nonane (C9)	3.253	1429353	10.287 ug/ml
2) T n-Decane (C10)	4.503	1451977	10.277 ug/ml
3) T A~Naphthalene (C11.7)	6.215	1409508	9.818 ug/ml
4) T n-Dodecane (C12)	6.670	1456013	10.262 ug/ml
5) T A~2-methylnaphthalene...	7.311	1303112	9.695 ug/ml
6) T n-Tetradecane (C14)	8.497	1444120	10.251 ug/ml
7) T n-Hexadecane (C16)	10.103	1486117	10.224 ug/ml
8) T n-Octadecane (C18)	11.544	1509351	10.256 ug/ml
10) T n-Eicosane (C20)	12.852	1447741	10.270 ug/ml
11) T n-Heneicosane (C21)	13.463	1422566	10.297 ug/ml
13) T n-Docosane (C22)	14.049	1407717	10.232 ug/ml
14) T n-Tetracosane (C24)	15.149	1417214	10.250 ug/ml
15) T n-Hexacosane (C26)	16.170	1413994	10.260 ug/ml
16) T n-Octacosane (C28)	17.118	1469893	10.435 ug/ml
17) T n-Tricontane (C30)	18.006	1614246	10.693 ug/ml
18) T n-Dotriacontane (C32)	18.837	1666044	10.943 ug/ml
19) T n-Tetratriacontane (C34)	19.621	1525013	10.961 ug/ml
20) T n-Hexatriacontane (C36)	20.359	1301715	10.698 ug/ml
21) T n-Octatriacontane (C38)	21.086	1173667	10.191 ug/mlm
22) T n-Tetracontane (C40)	21.971	1141383	10.327 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050538.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 15:37
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

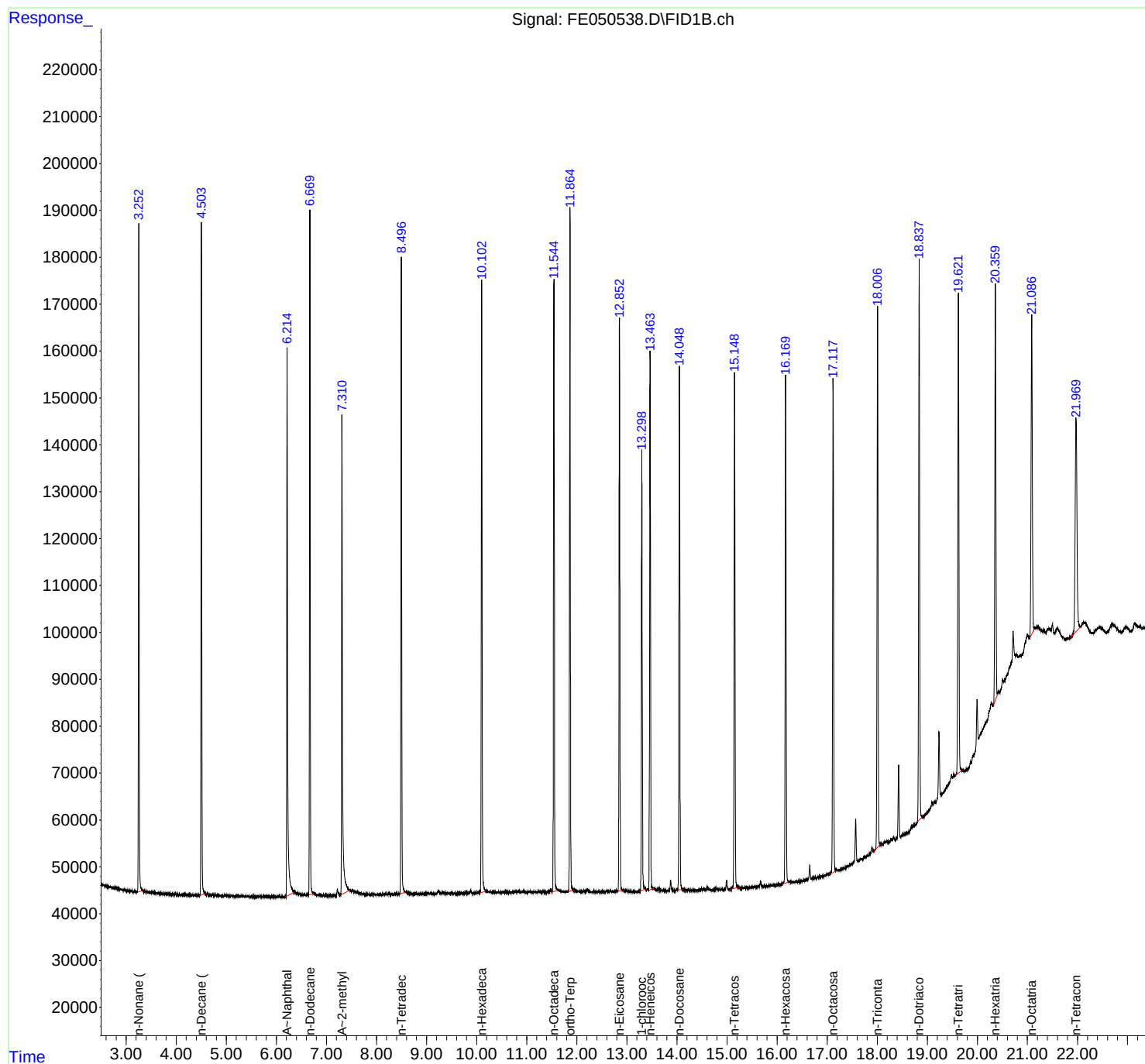
Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

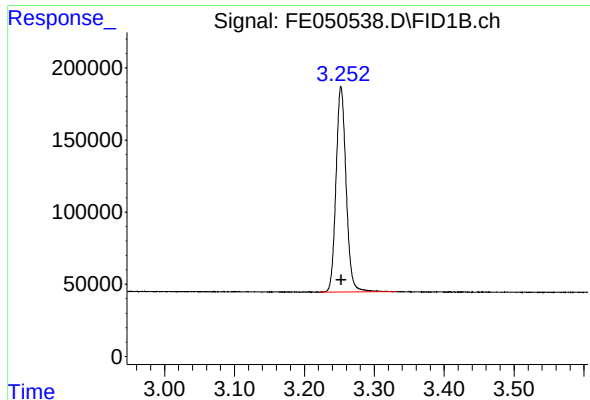
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024

Integration File: autoint1.e
Quant Time: Oct 07 16:03:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:03:08 2024
Response via : Initial Calibration
Integrator: ChemStation

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





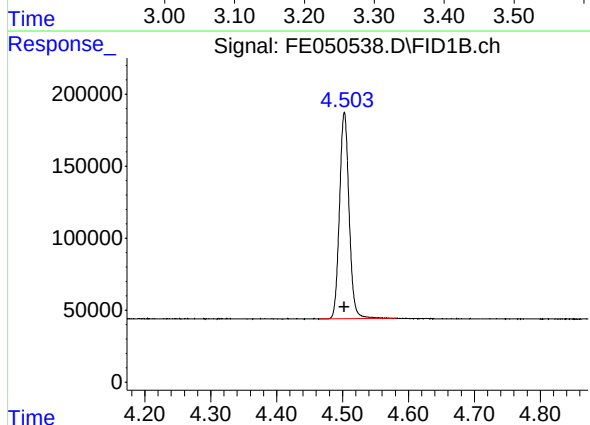
#1 n-Nonane (C9)

R.T.: 3.253 min
Delta R.T.: 0.000 min
Response: 1429353
Conc: 10.29 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

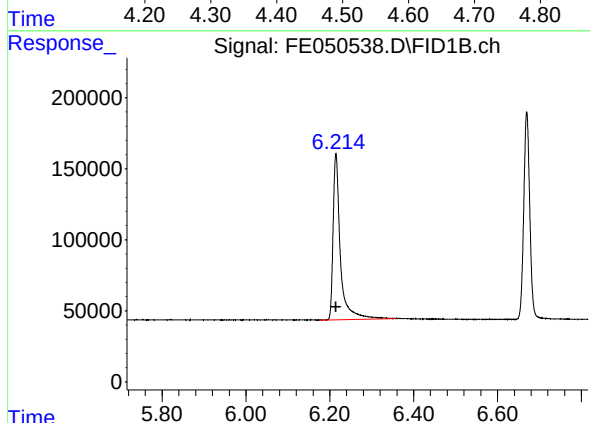
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



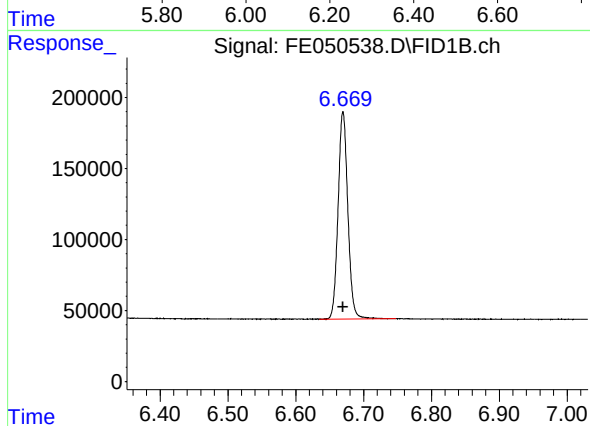
#2 n-Decane (C10)

R.T.: 4.503 min
Delta R.T.: 0.000 min
Response: 1451977
Conc: 10.28 ug/ml



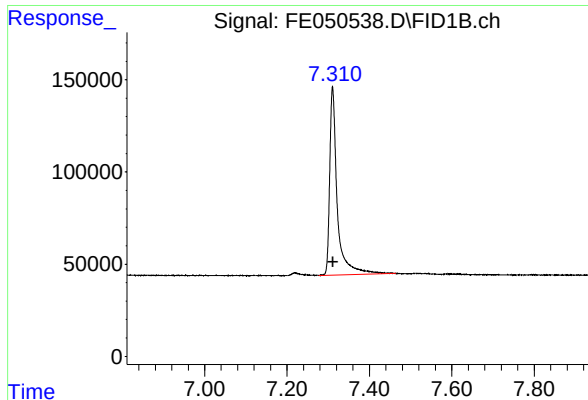
#3 A~Naphthalene (C11.7)

R.T.: 6.215 min
Delta R.T.: 0.000 min
Response: 1409508
Conc: 9.82 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 1456013
Conc: 10.26 ug/ml



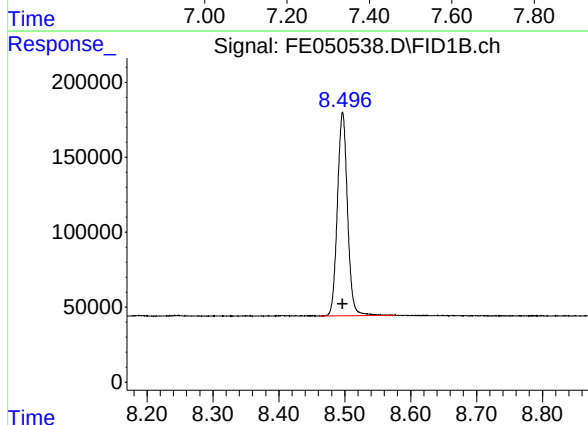
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.311 min
Delta R.T.: 0.000 min
Response: 1303112
Conc: 9.70 ug/ml

Instrument : FID_E
ClientSampleId : 10 PPM ALIPHATIC HC STD4

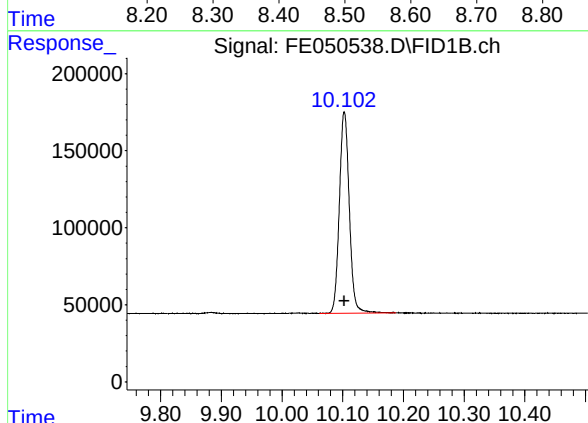
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



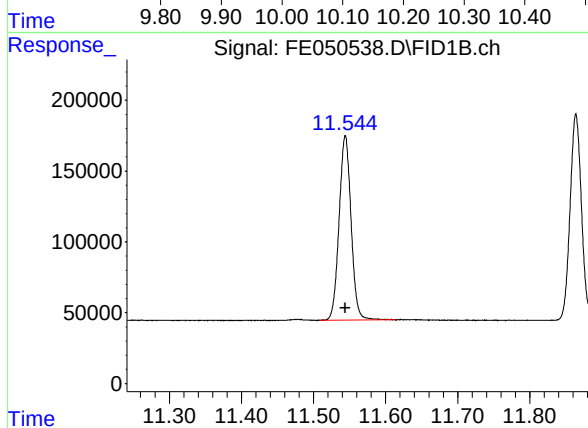
#6 n-Tetradecane (C14)

R.T.: 8.497 min
Delta R.T.: 0.000 min
Response: 1444120
Conc: 10.25 ug/ml



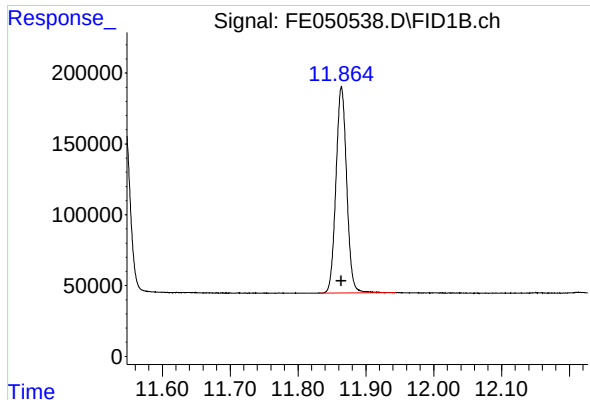
#7 n-Hexadecane (C16)

R.T.: 10.103 min
Delta R.T.: 0.000 min
Response: 1486117
Conc: 10.22 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.544 min
Delta R.T.: 0.000 min
Response: 1509351
Conc: 10.26 ug/ml



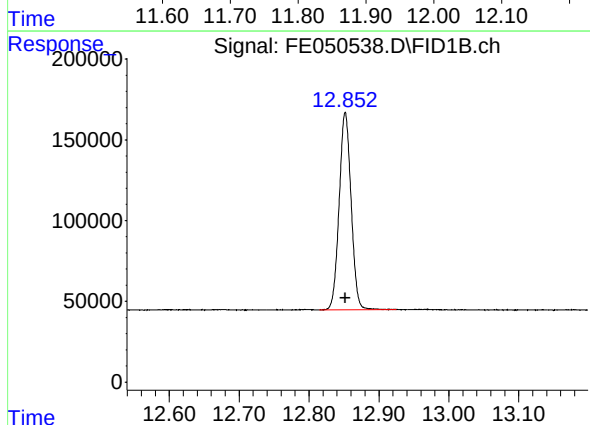
#9 ortho-Terphenyl (SURR)

R.T.: 11.864 min
Delta R.T.: 0.000 min
Response: 1598249
Conc: 10.30 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

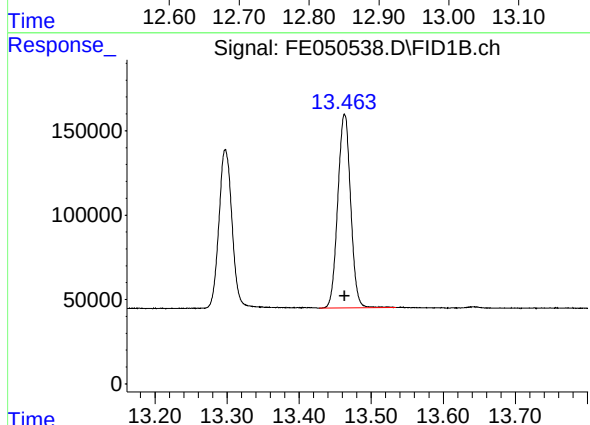
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



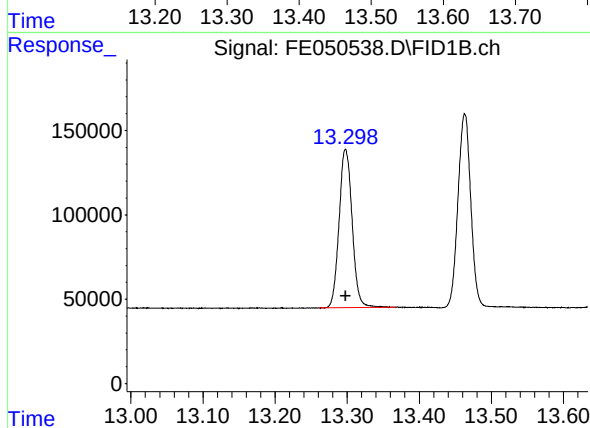
#10 n-Eicosane (C20)

R.T.: 12.852 min
Delta R.T.: 0.000 min
Response: 1447741
Conc: 10.27 ug/ml



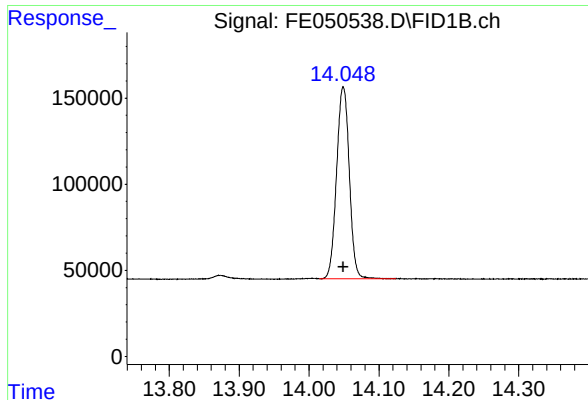
#11 n-Heneicosane (C21)

R.T.: 13.463 min
Delta R.T.: 0.000 min
Response: 1422566
Conc: 10.30 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.298 min
Delta R.T.: 0.000 min
Response: 1184740
Conc: 10.11 ug/ml



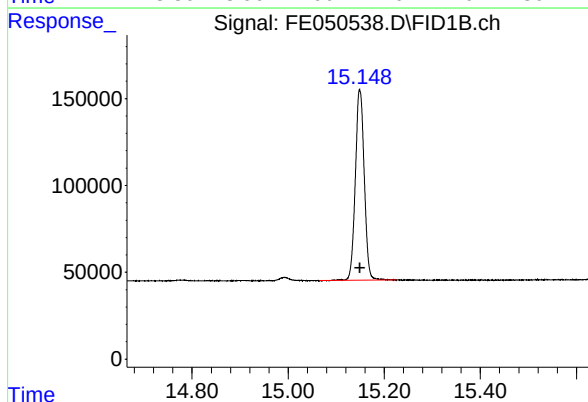
#13 n-Docosane (C22)

R.T.: 14.049 min
Delta R.T.: 0.000 min
Response: 1407717
Conc: 10.23 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

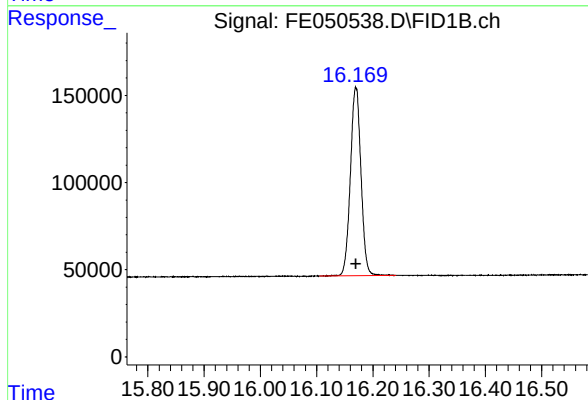
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



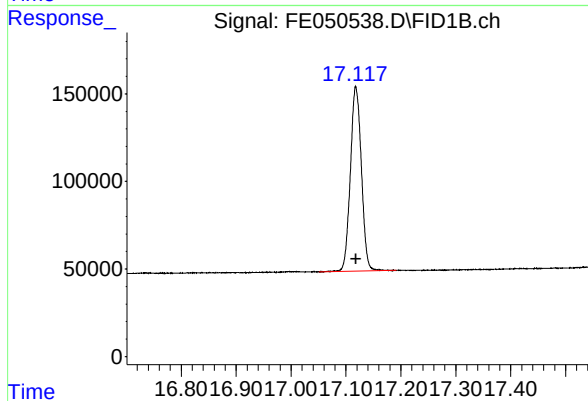
#14 n-Tetracosane (C24)

R.T.: 15.149 min
Delta R.T.: 0.000 min
Response: 1417214
Conc: 10.25 ug/ml



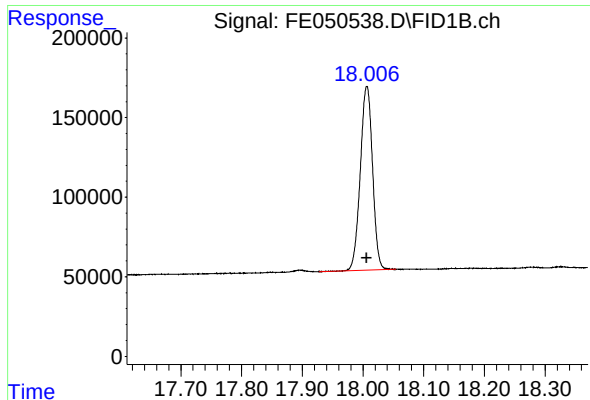
#15 n-Hexacosane (C26)

R.T.: 16.170 min
Delta R.T.: 0.000 min
Response: 1413994
Conc: 10.26 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.118 min
Delta R.T.: 0.000 min
Response: 1469893
Conc: 10.43 ug/ml



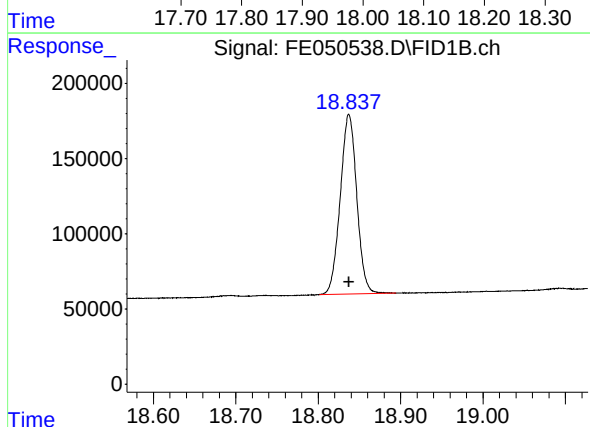
#17 n-Tricontane (C30)

R.T.: 18.006 min
Delta R.T.: 0.000 min
Response: 1614246
Conc: 10.69 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

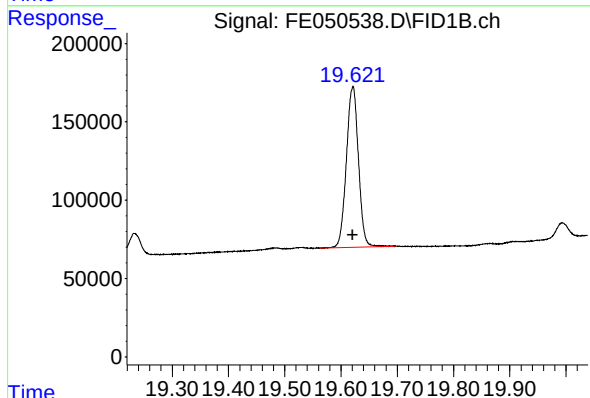
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



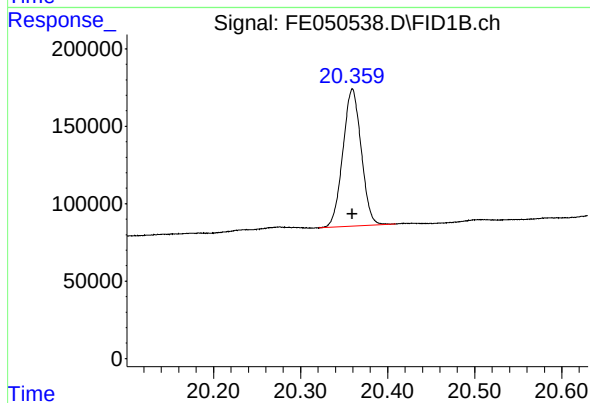
#18 n-Dotriacontane (C32)

R.T.: 18.837 min
Delta R.T.: 0.000 min
Response: 1666044
Conc: 10.94 ug/ml



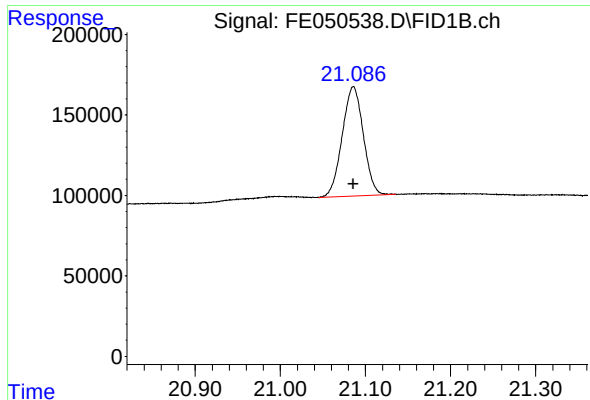
#19 n-Tetratriacontane (C34)

R.T.: 19.621 min
Delta R.T.: 0.000 min
Response: 1525013
Conc: 10.96 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.359 min
Delta R.T.: 0.000 min
Response: 1301715
Conc: 10.70 ug/ml



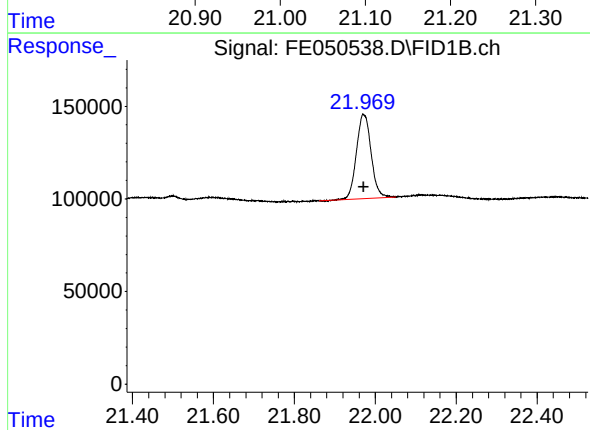
#21 n-Octatriacontane (C38)

R.T.: 21.086 min
Delta R.T.: 0.000 min
Response: 1173667
Conc: 10.19 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



#22 n-Tetracontane (C40)

R.T.: 21.971 min
Delta R.T.: 0.000 min
Response: 1141383
Conc: 10.33 ug/ml

rteres

Instrument :
FID_E
LabSampleId :
10 PPM ALIPHATIC HC STD4
Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824
Data File : FE050538.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 15:37
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.221	3.331	BB	141842	1429353	85.79%	4.574%
2	4.503	4.464	4.581	BB	143204	1451977	87.15%	4.647%
3	6.215	6.174	6.358	BB	116535	1409508	84.60%	4.511%
4	6.670	6.634	6.748	BB	145347	1456013	87.39%	4.660%
5	7.311	7.278	7.464	BB	101321	1303112	78.22%	4.170%
6	8.497	8.461	8.578	BB	135582	1444120	86.68%	4.621%
7	10.103	10.061	10.188	BB	130078	1486117	89.20%	4.756%
8	11.544	11.508	11.614	BB	130433	1509351	90.59%	4.830%
9	11.864	11.831	11.944	BB	145215	1598249	95.93%	5.115%
10	12.852	12.814	12.924	BB	122059	1447741	86.90%	4.633%
11	13.298	13.261	13.368	BB	93873	1184740	71.11%	3.791%
12	13.463	13.428	13.534	BB	115675	1422566	85.39%	4.553%
13	14.049	14.014	14.124	BB	111578	1407717	84.49%	4.505%
14	15.149	15.064	15.224	BB	110566	1417214	85.06%	4.535%
15	16.170	16.104	16.241	BB	108964	1413994	84.87%	4.525%
16	17.118	17.051	17.191	BB	105302	1469893	88.23%	4.704%
17	18.006	17.928	18.054	BB	116031	1614246	96.89%	5.166%
18	18.837	18.801	18.894	BB	119499	1666044	100.00%	5.332%
19	19.621	19.561	19.698	BB	102286	1525013	91.53%	4.880%
20	20.359	20.321	20.409	BBA	88720	1301715	78.13%	4.166%
21	21.086	21.021	21.138	BB	67480	1147945	68.90%	3.674%
22	21.971	21.861	22.051	BV	45313	1141383	68.51%	3.653%
Sum of corrected areas:							31248008	

Aliphatic EPH 100824.M Mon Oct 07 16:36:37 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
 Data File : FE050539.D
 Signal(s) : FID1B.ch
 Acq On : 07 Oct 2024 16:07
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/08/2024
 Supervised By :Ankita Jodhani 10/08/2024

Integration File: autoint1.e
 Quant Time: Oct 07 16:31:29 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:31:21 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)	11.863	837545	5.312 ug/ml
Spiked Amount 50.000		Recovery =	10.62%
12) S 1-chlorooctadecane (S...	13.298	614466	5.194 ug/ml
Spiked Amount 50.000		Recovery =	10.39%
Target Compounds			
1) T n-Nonane (C9)	3.254	753304	5.332 ug/ml
2) T n-Decane (C10)	4.503	761079	5.305 ug/ml
3) T A~Naphthalene (C11.7)	6.217	703385	4.919 ug/ml
4) T n-Dodecane (C12)	6.670	760541	5.284 ug/ml
5) T A~2-methylnaphthalene...	7.313	623807	4.709 ug/ml
6) T n-Tetradecane (C14)	8.496	759193	5.307 ug/ml
7) T n-Hexadecane (C16)	10.102	772180	5.247 ug/ml
8) T n-Octadecane (C18)	11.544	790974	5.295 ug/ml
10) T n-Eicosane (C20)	12.852	765738	5.340 ug/ml
11) T n-Heneicosane (C21)	13.463	747887	5.326 ug/ml
13) T n-Docosane (C22)	14.048	755779	5.387 ug/ml
14) T n-Tetracosane (C24)	15.150	766754	5.427 ug/ml
15) T n-Hexacosane (C26)	16.169	761614	5.412 ug/ml
16) T n-Octacosane (C28)	17.117	840920	5.747 ug/ml
17) T n-Tricontane (C30)	18.004	955708	6.011 ug/ml
18) T n-Dotriacontane (C32)	18.837	1007931	6.217 ug/ml
19) T n-Tetratriacontane (C34)	19.619	889564	6.056 ug/ml
20) T n-Hexatriacontane (C36)	20.358	736787	5.810 ug/ml
21) T n-Octatriacontane (C38)	21.084	775038	6.268 ug/ml
22) T n-Tetracontane (C40)	21.969	573373	5.145 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050539.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 16:07
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

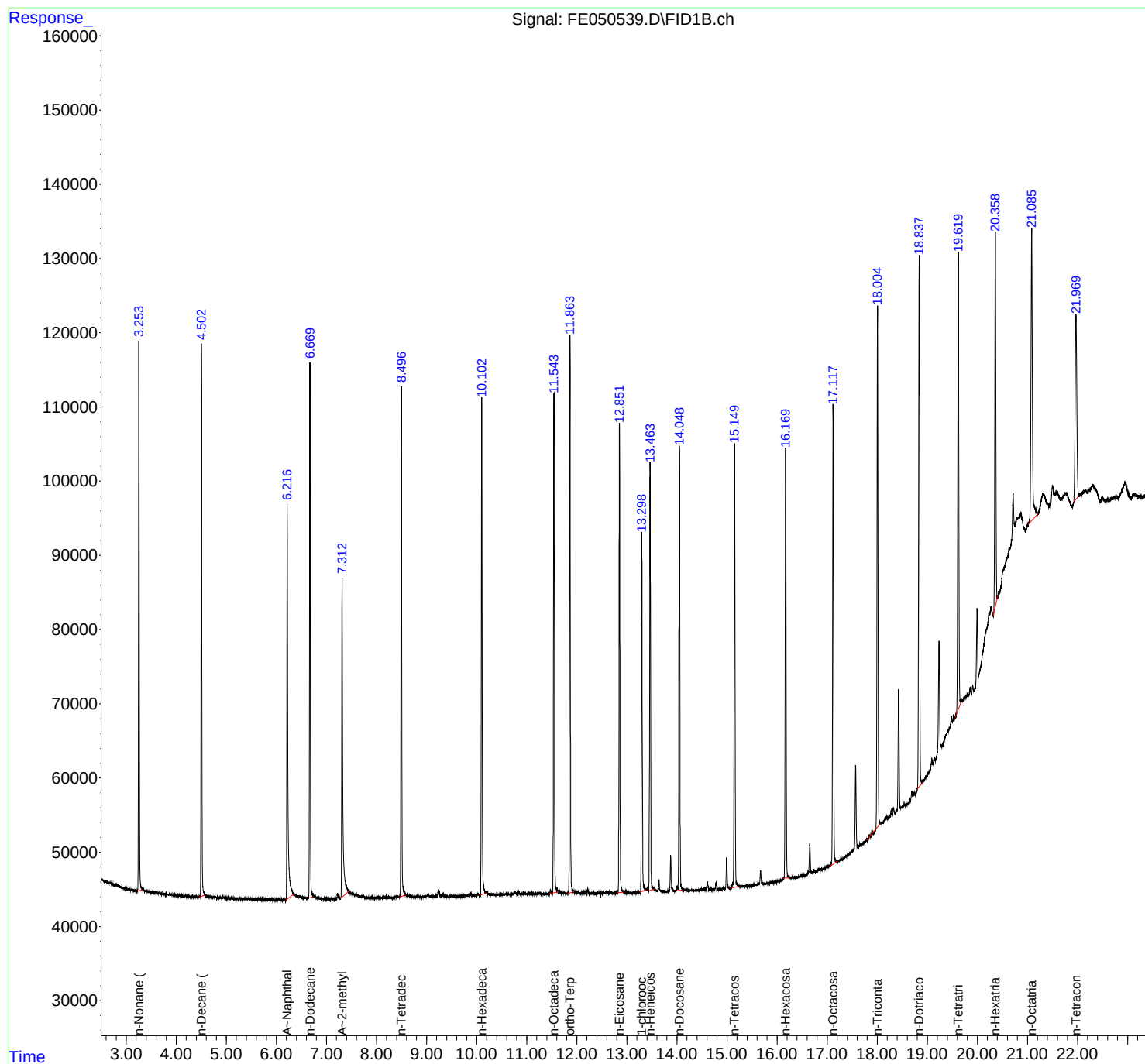
Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

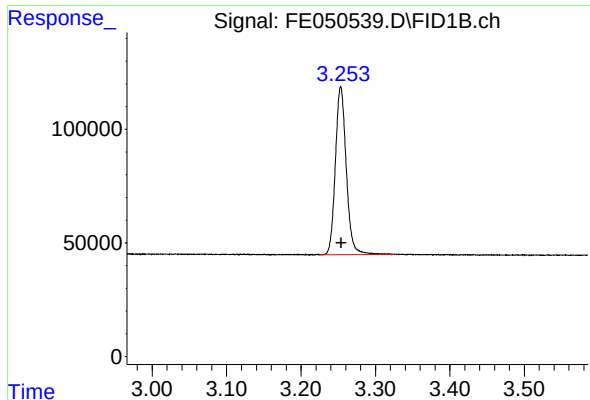
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024

Integration File: autoint1.e
Quant Time: Oct 07 16:31:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:31:21 2024
Response via : Initial Calibration
Integrator: ChemStation

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





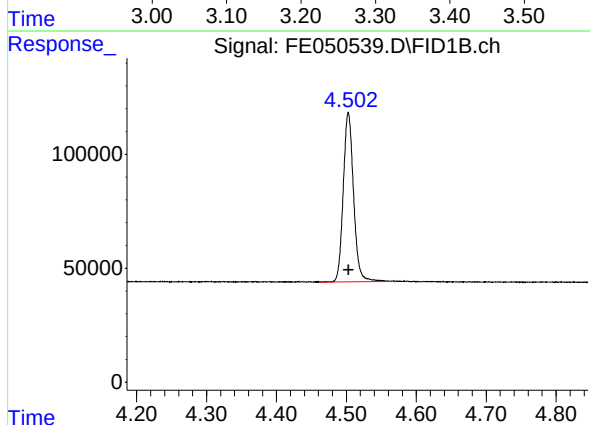
#1 n-Nonane (C9)

R.T.: 3.254 min
Delta R.T.: 0.000 min
Response: 753304
Conc: 5.33 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

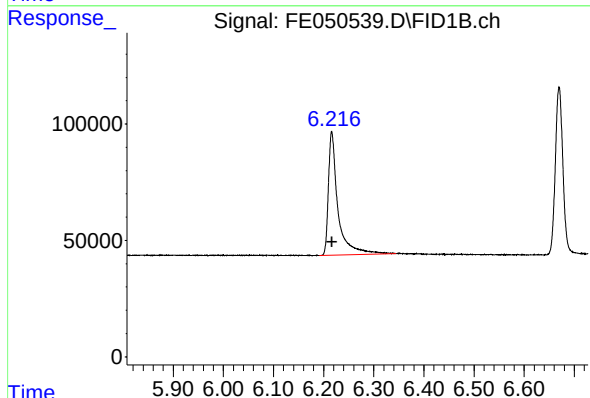
Manual Integrations
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Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



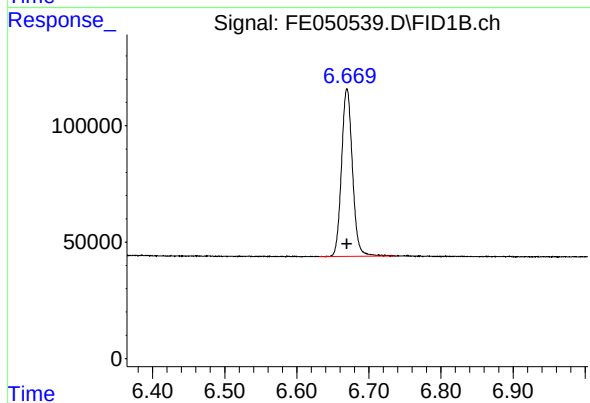
#2 n-Decane (C10)

R.T.: 4.503 min
Delta R.T.: 0.000 min
Response: 761079
Conc: 5.30 ug/ml



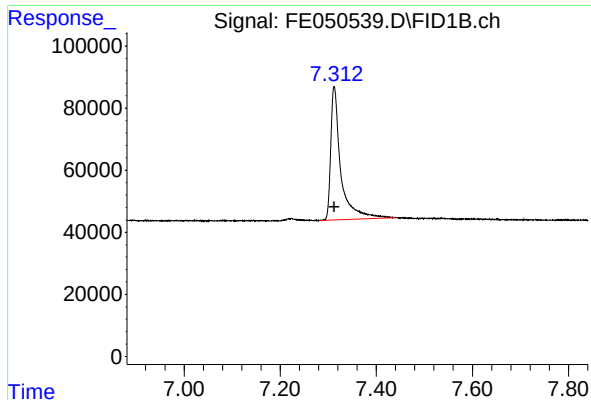
#3 A~Naphthalene (C11.7)

R.T.: 6.217 min
Delta R.T.: 0.000 min
Response: 703385
Conc: 4.92 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 760541
Conc: 5.28 ug/ml



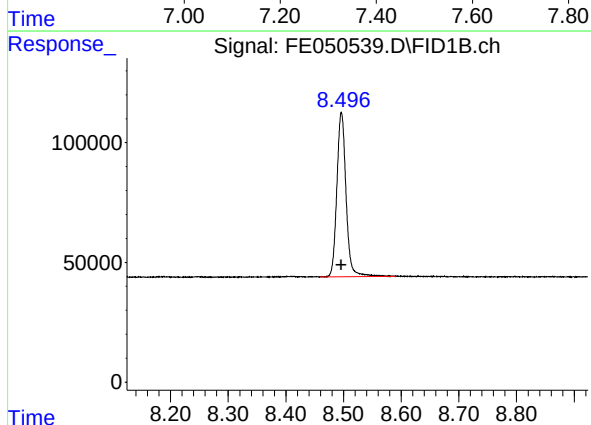
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.313 min
Delta R.T.: 0.000 min
Response: 623807
Conc: 4.71 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

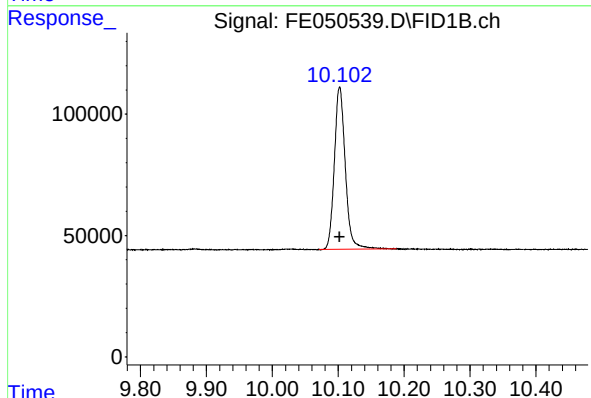
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



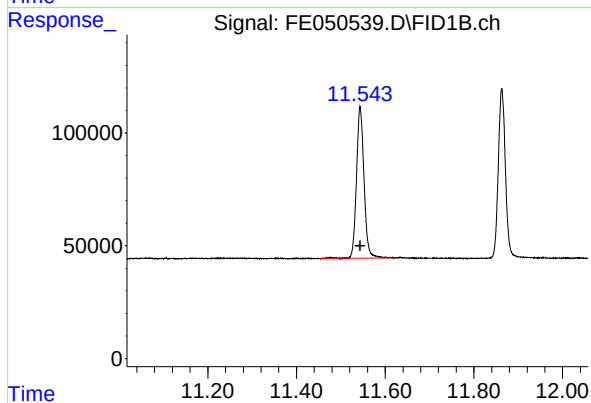
#6 n-Tetradecane (C14)

R.T.: 8.496 min
Delta R.T.: 0.000 min
Response: 759193
Conc: 5.31 ug/ml



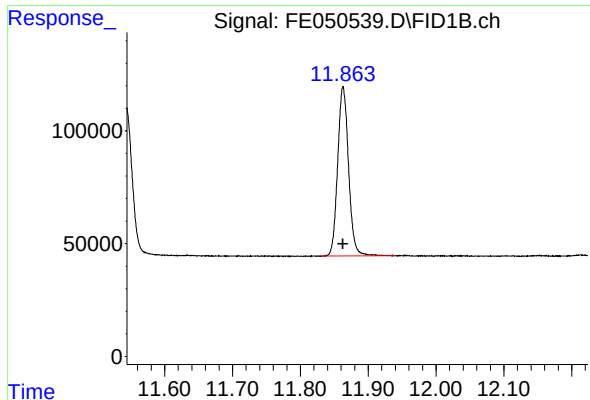
#7 n-Hexadecane (C16)

R.T.: 10.102 min
Delta R.T.: 0.000 min
Response: 772180
Conc: 5.25 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.544 min
Delta R.T.: 0.000 min
Response: 790974
Conc: 5.30 ug/ml



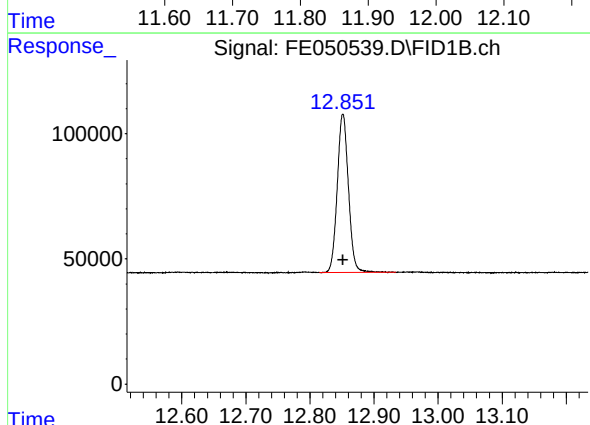
#9 ortho-Terphenyl (SURR)

R.T.: 11.863 min
Delta R.T.: 0.000 min
Response: 837545
Conc: 5.31 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

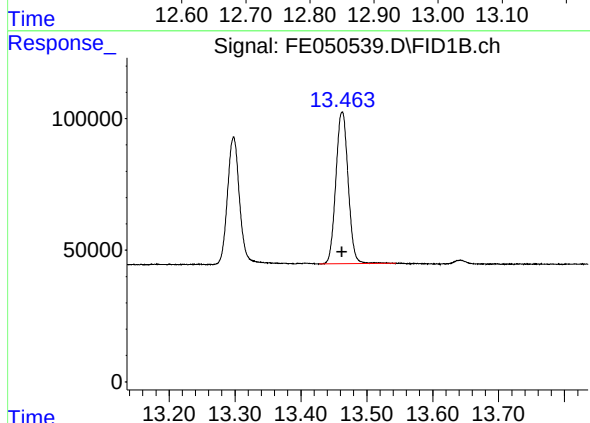
Manual Integrations
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Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



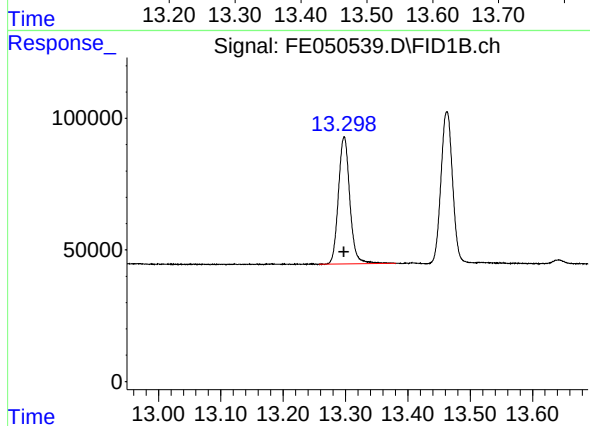
#10 n-Eicosane (C20)

R.T.: 12.852 min
Delta R.T.: 0.000 min
Response: 765738
Conc: 5.34 ug/ml



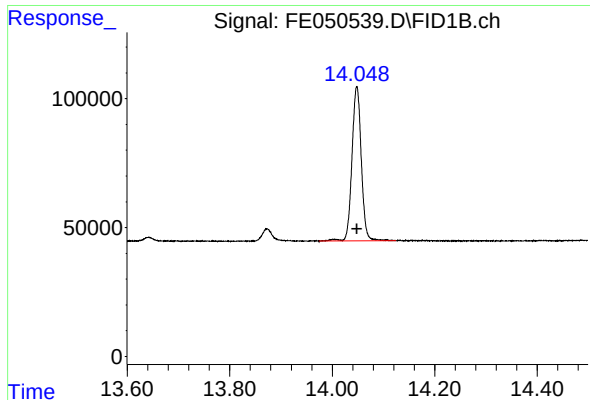
#11 n-Heneicosane (C21)

R.T.: 13.463 min
Delta R.T.: 0.000 min
Response: 747887
Conc: 5.33 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.298 min
Delta R.T.: 0.000 min
Response: 614466
Conc: 5.19 ug/ml



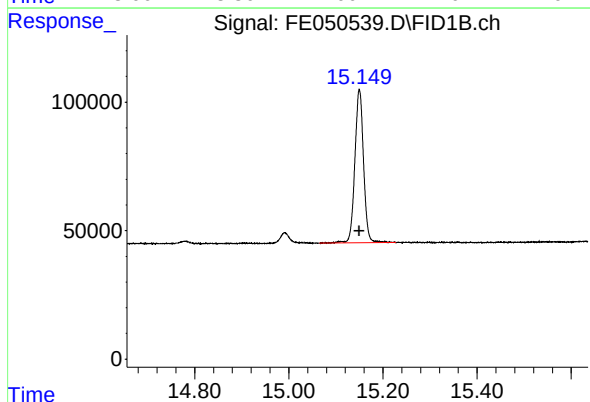
#13 n-Docosane (C22)

R.T.: 14.048 min
Delta R.T.: 0.000 min
Response: 755779
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

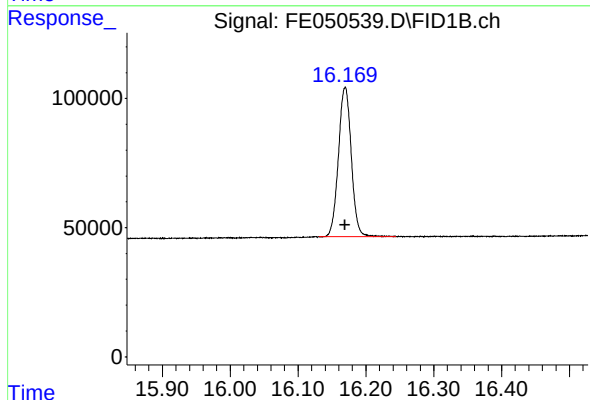
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



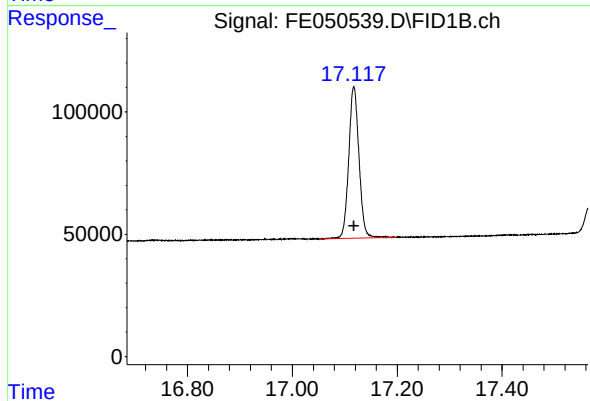
#14 n-Tetracosane (C24)

R.T.: 15.150 min
Delta R.T.: 0.000 min
Response: 766754
Conc: 5.43 ug/ml



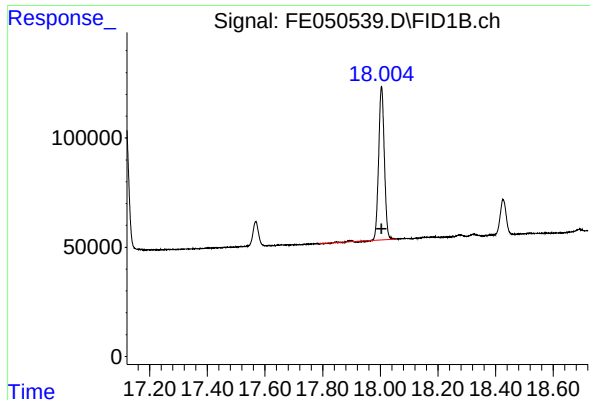
#15 n-Hexacosane (C26)

R.T.: 16.169 min
Delta R.T.: 0.000 min
Response: 761614
Conc: 5.41 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.117 min
Delta R.T.: 0.000 min
Response: 840920
Conc: 5.75 ug/ml



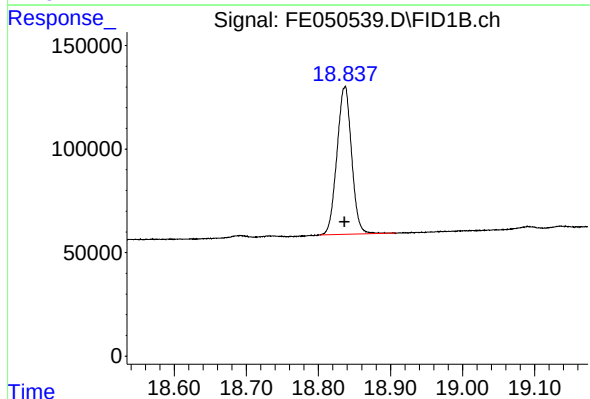
#17 n-Tricontane (C30)

R.T.: 18.004 min
Delta R.T.: 0.000 min
Response: 955708
Conc: 6.01 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

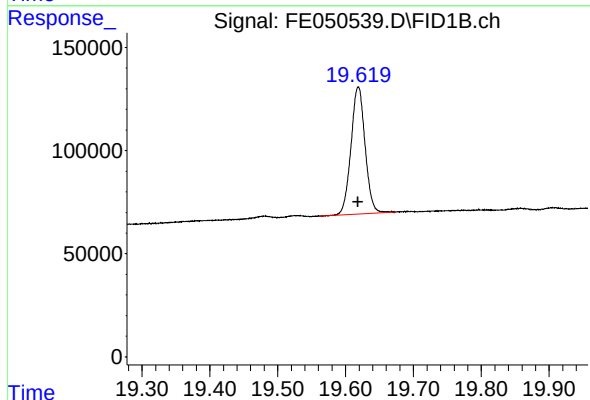
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



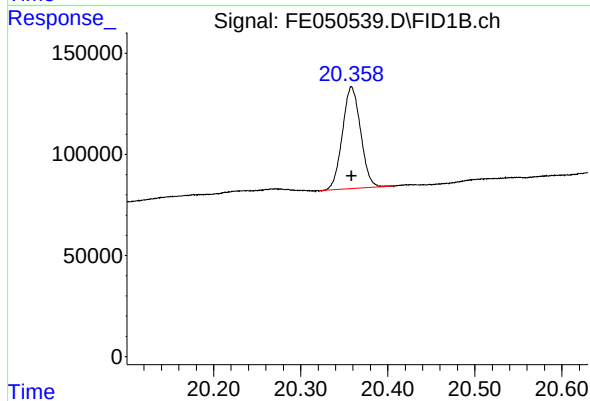
#18 n-Dotriacontane (C32)

R.T.: 18.837 min
Delta R.T.: 0.000 min
Response: 1007931
Conc: 6.22 ug/ml



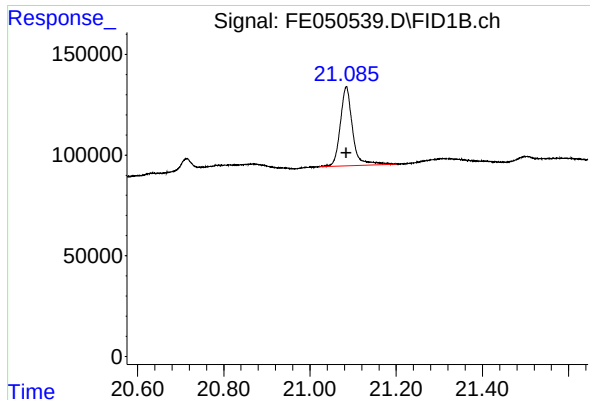
#19 n-Tetratriacontane (C34)

R.T.: 19.619 min
Delta R.T.: 0.000 min
Response: 889564
Conc: 6.06 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.358 min
Delta R.T.: 0.000 min
Response: 736787
Conc: 5.81 ug/ml



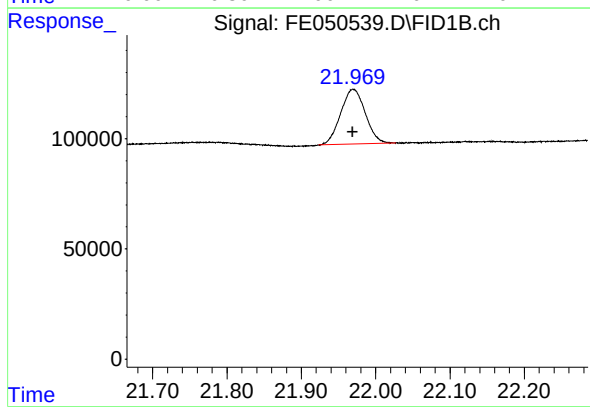
#21 n-Octatriacontane (C38)

R.T.: 21.084 min
Delta R.T.: 0.000 min
Response: 775038
Conc: 6.27 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024



#22 n-Tetracontane (C40)

R.T.: 21.969 min
Delta R.T.: 0.000 min
Response: 573373
Conc: 5.14 ug/ml m

rters

Instrument :
FID_E
LabSampleId :
5 PPM ALIPHATIC HC STD5
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/08/2024
Supervised By :Ankita Jodhani 10/08/2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824
Data File : FE050539.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 16:07
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.224	3.328	BB	73662	753304	74.74%	4.447%
2	4.503	4.461	4.571	BB	73626	761079	75.51%	4.493%
3	6.217	6.191	6.344	BB	52188	703385	69.78%	4.152%
4	6.670	6.631	6.738	BB	72076	760541	75.46%	4.490%
5	7.313	7.281	7.441	BB	42388	623807	61.89%	3.683%
6	8.496	8.458	8.591	BB	68361	759193	75.32%	4.482%
7	10.102	10.071	10.188	BB	66932	772180	76.61%	4.559%
8	11.544	11.451	11.624	BB	66625	790974	78.47%	4.670%
9	11.863	11.828	11.941	BB	74273	837545	83.10%	4.945%
10	12.852	12.814	12.934	BB	63313	765738	75.97%	4.521%
11	13.298	13.258	13.381	BB	48212	614466	60.96%	3.628%
12	13.463	13.428	13.544	BB	58070	747887	74.20%	4.415%
13	14.048	13.974	14.124	BB	59898	755779	74.98%	4.462%
14	15.150	15.064	15.228	BB	59559	766754	76.07%	4.527%
15	16.169	16.131	16.244	BB	57691	761614	75.56%	4.496%
16	17.117	17.051	17.198	BB	61897	840920	83.43%	4.964%
17	18.004	17.788	18.054	BB	70215	955708	94.82%	5.642%
18	18.837	18.801	18.908	BB	71875	1007931	100.00%	5.950%
19	19.619	19.561	19.674	BB	61617	889564	88.26%	5.252%
20	20.358	20.321	20.409	BBA	50235	736787	73.10%	4.350%
21	21.084	21.021	21.199	BBA	39404	775038	76.89%	4.575%
22	21.970	21.861	22.031	BB	24838	558694	55.43%	3.298%
Sum of corrected areas:						16938887		

Aliphatic EPH 100824.M Mon Oct 07 16:37:05 2024

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
 Data File : FE050540.D
 Signal(s) : FID1B.ch
 Acq On : 07 Oct 2024 16:37
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Oct 07 17:01:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.865	2942962	18.667 ug/ml
Spiked Amount 50.000		Recovery =	37.33%
12) S 1-chlorooctadecane (S...	13.299	2228627	18.840 ug/ml
Spiked Amount 50.000		Recovery =	37.68%
Target Compounds			
1) T n-Nonane (C9)	3.253	2689462	19.035 ug/ml
2) T n-Decane (C10)	4.503	2733520	19.052 ug/ml
3) T A~Naphthalene (C11.7)	6.214	2714676	18.985 ug/ml
4) T n-Dodecane (C12)	6.670	2741257	19.045 ug/ml
5) T A~2-methylnaphthalene...	7.310	2535659	19.140 ug/ml
6) T n-Tetradecane (C14)	8.497	2716479	18.987 ug/ml
7) T n-Hexadecane (C16)	10.103	2790671	18.962 ug/ml
8) T n-Octadecane (C18)	11.544	2821757	18.891 ug/ml
10) T n-Eicosane (C20)	12.852	2729389	19.033 ug/ml
11) T n-Heneicosane (C21)	13.464	2653621	18.896 ug/ml
13) T n-Docosane (C22)	14.049	2698315	19.233 ug/ml
14) T n-Tetracosane (C24)	15.151	2823967	19.989 ug/ml
15) T n-Hexacosane (C26)	16.170	2863872	20.352 ug/ml
16) T n-Octacosane (C28)	17.118	2984657	20.397 ug/ml
17) T n-Tricontane (C30)	18.005	3160183	19.875 ug/ml
18) T n-Dotriacontane (C32)	18.837	3132221	19.321 ug/ml
19) T n-Tetratriacontane (C34)	19.619	2741344	18.662 ug/ml
20) T n-Hexatriacontane (C36)	20.359	2393312	18.873 ug/ml
21) T n-Octatriacontane (C38)	21.084	2140081	17.308 ug/ml
22) T n-Tetracontane (C40)	21.972	2032080	18.249 ug/ml

(f)=RT Delta > 1/2 Window

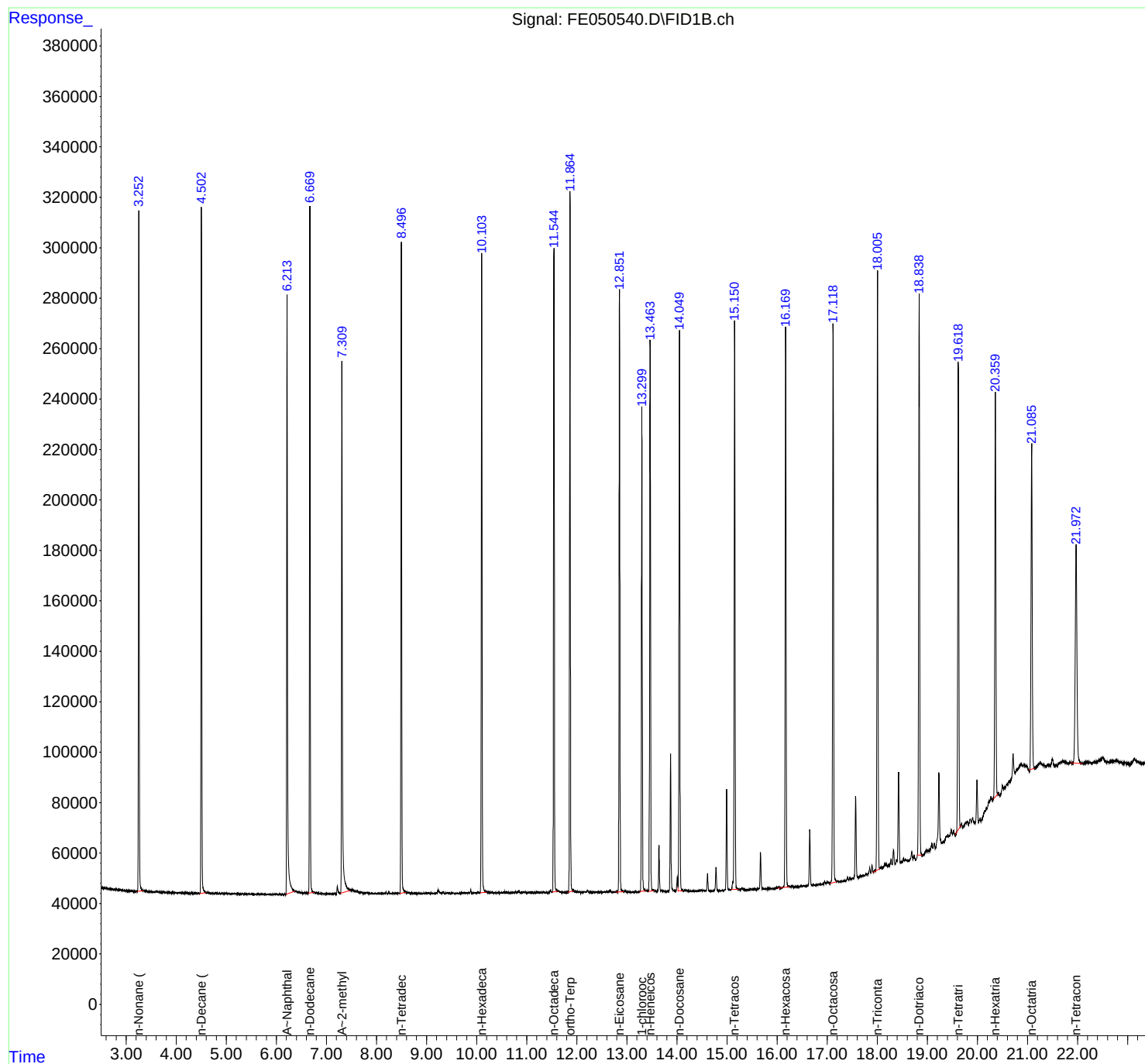
(m)=manual int.

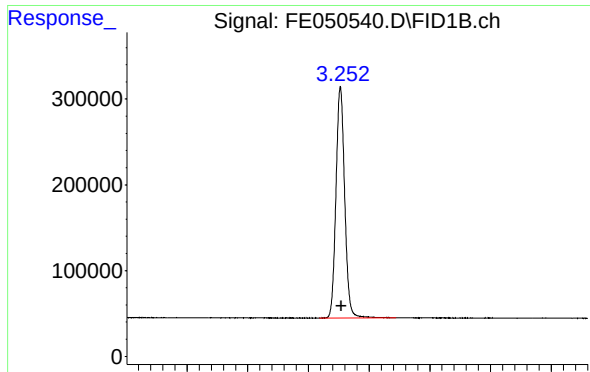
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050540.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 16:37
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Oct 07 17:01:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 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)

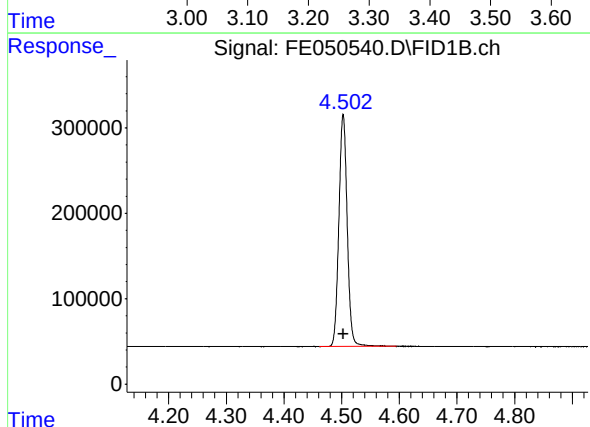
R.T.: 3.253 min
Delta R.T.: -0.001 min
Response: 2689462
Conc: 19.03 ug/ml

Instrument :

FID_E

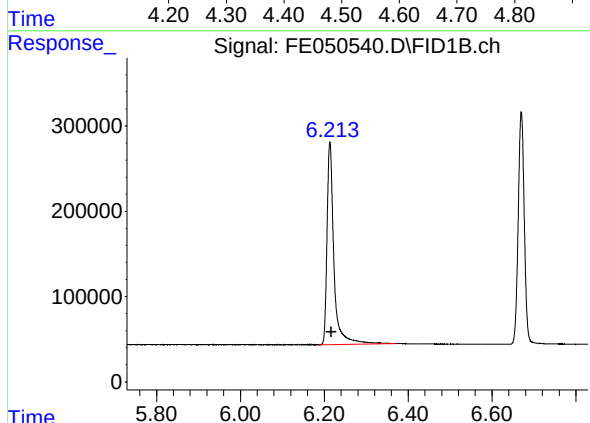
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



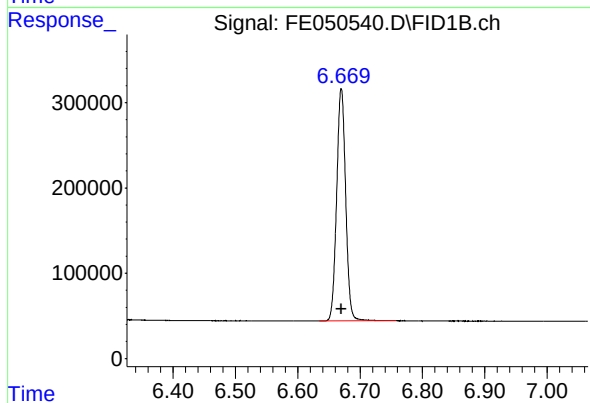
#2 n-Decane (C10)

R.T.: 4.503 min
Delta R.T.: 0.000 min
Response: 2733520
Conc: 19.05 ug/ml



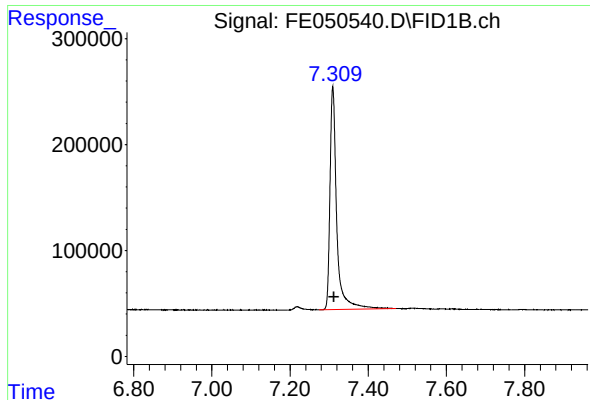
#3 A~Naphthalene (C11.7)

R.T.: 6.214 min
Delta R.T.: -0.003 min
Response: 2714676
Conc: 18.99 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.670 min
Delta R.T.: 0.000 min
Response: 2741257
Conc: 19.05 ug/ml



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

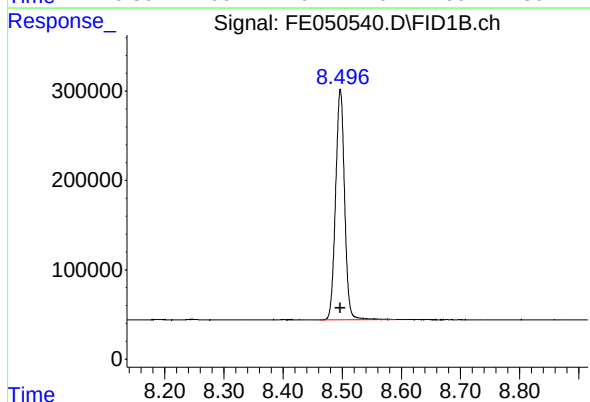
R.T.: 7.310 min
Delta R.T.: -0.003 min
Response: 2535659
Conc: 19.14 ug/ml

Instrument :

FID_E

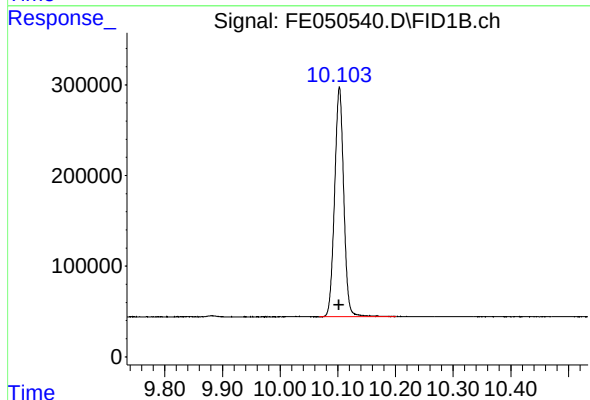
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



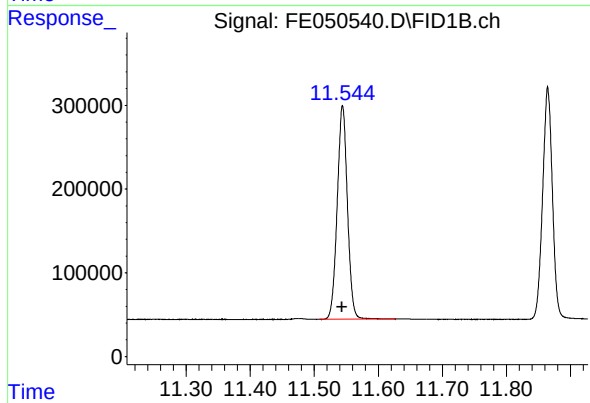
#6 n-Tetradecane (C14)

R.T.: 8.497 min
Delta R.T.: 0.000 min
Response: 2716479
Conc: 18.99 ug/ml



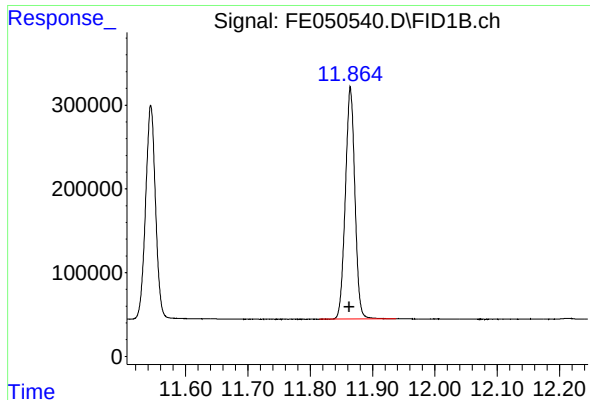
#7 n-Hexadecane (C16)

R.T.: 10.103 min
Delta R.T.: 0.000 min
Response: 2790671
Conc: 18.96 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.544 min
Delta R.T.: 0.000 min
Response: 2821757
Conc: 18.89 ug/ml



#9 ortho-Terphenyl (SURR)

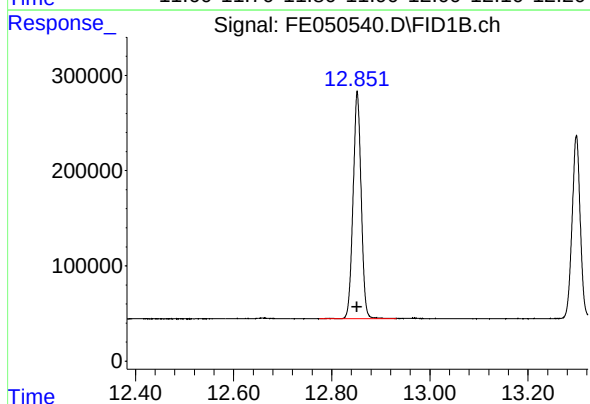
R.T.: 11.865 min
Delta R.T.: 0.001 min
Response: 2942962
Conc: 18.67 ug/ml

Instrument :

FID_E

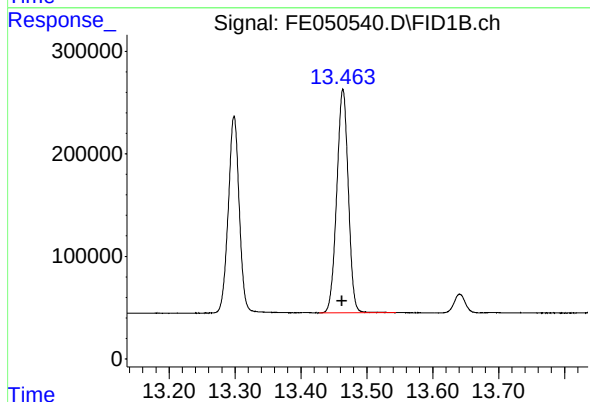
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



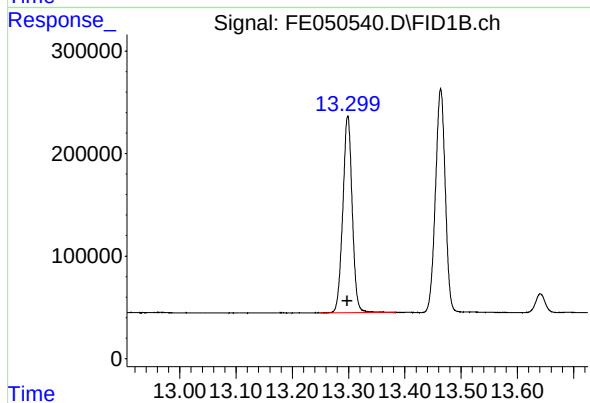
#10 n-Eicosane (C20)

R.T.: 12.852 min
Delta R.T.: 0.000 min
Response: 2729389
Conc: 19.03 ug/ml



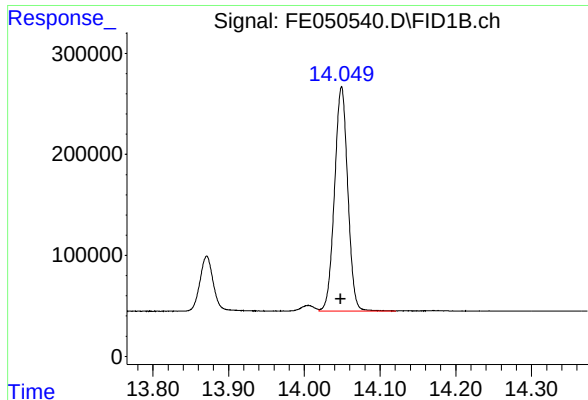
#11 n-Heneicosane (C21)

R.T.: 13.464 min
Delta R.T.: 0.001 min
Response: 2653621
Conc: 18.90 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.299 min
Delta R.T.: 0.000 min
Response: 2228627
Conc: 18.84 ug/ml



#13 n-Docosane (C22)

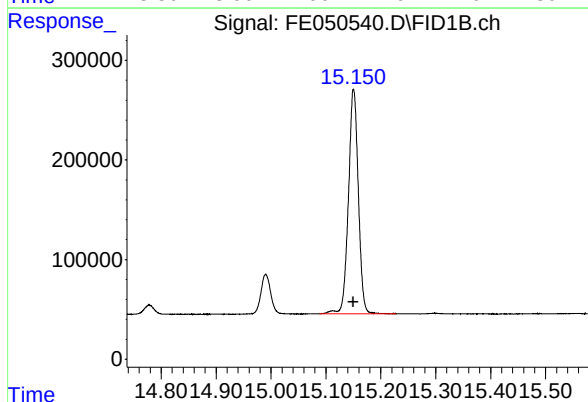
R.T.: 14.049 min
Delta R.T.: 0.001 min
Response: 2698315
Conc: 19.23 ug/ml

Instrument :

FID_E

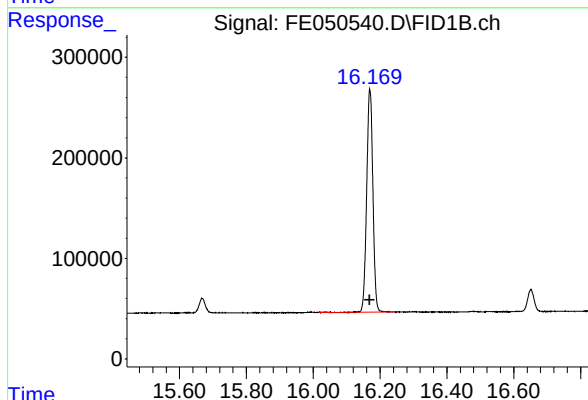
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



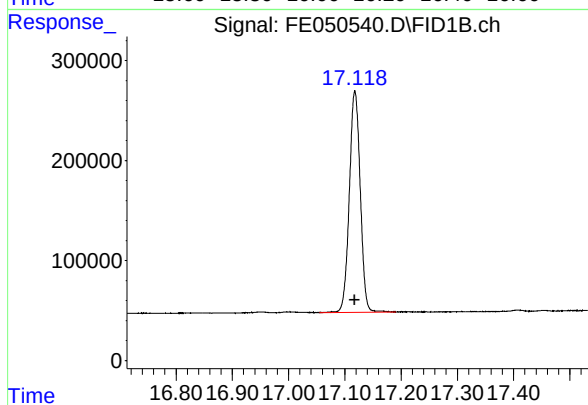
#14 n-Tetracosane (C24)

R.T.: 15.151 min
Delta R.T.: 0.000 min
Response: 2823967
Conc: 19.99 ug/ml



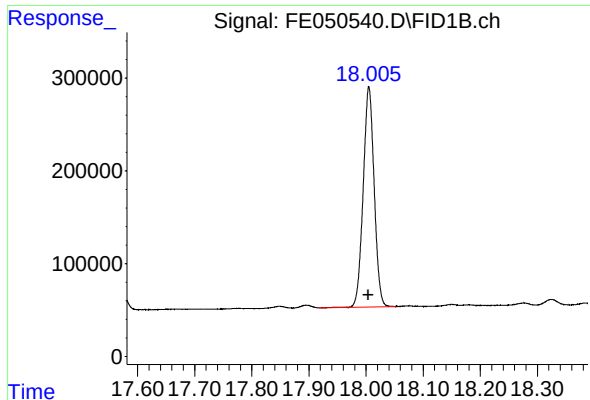
#15 n-Hexacosane (C26)

R.T.: 16.170 min
Delta R.T.: 0.000 min
Response: 2863872
Conc: 20.35 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.118 min
Delta R.T.: 0.000 min
Response: 2984657
Conc: 20.40 ug/ml



#17 n-Tricontane (C30)

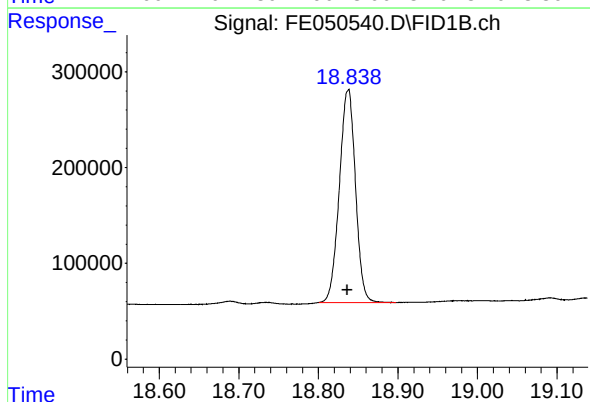
R.T.: 18.005 min
Delta R.T.: 0.000 min
Response: 3160183
Conc: 19.88 ug/ml

Instrument :

FID_E

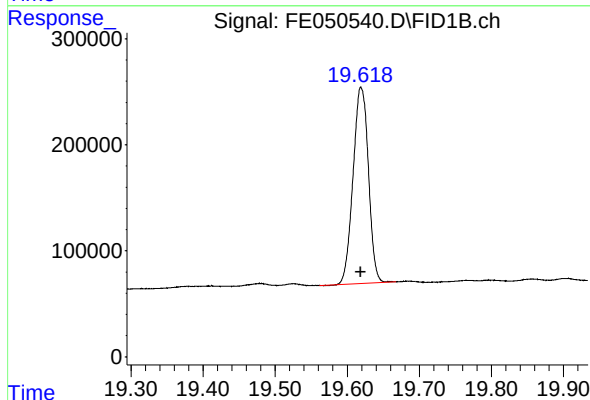
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



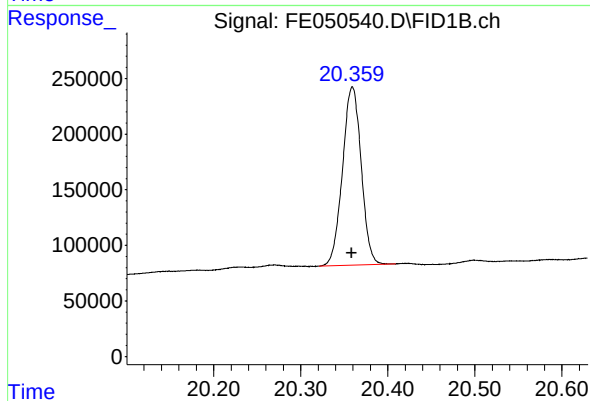
#18 n-Dotriacontane (C32)

R.T.: 18.837 min
Delta R.T.: 0.000 min
Response: 3132221
Conc: 19.32 ug/ml



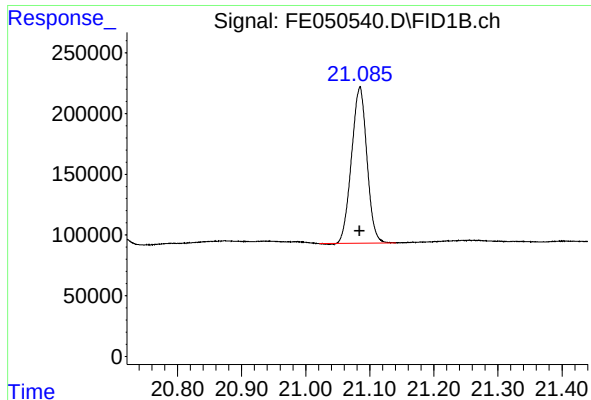
#19 n-Tetatriacontane (C34)

R.T.: 19.619 min
Delta R.T.: 0.000 min
Response: 2741344
Conc: 18.66 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.359 min
Delta R.T.: 0.000 min
Response: 2393312
Conc: 18.87 ug/ml



#21 n-Octatriacontane (C38)

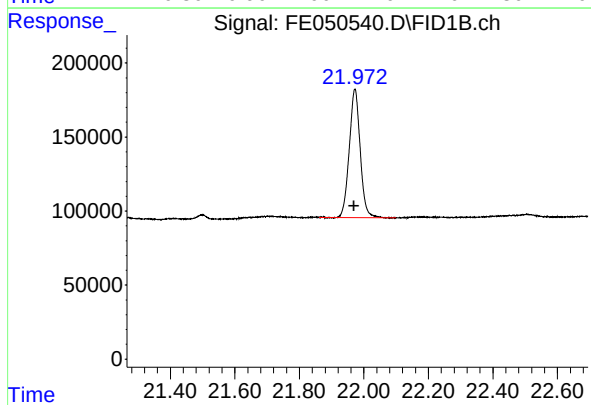
R.T.: 21.084 min
Delta R.T.: 0.000 min
Response: 2140081
Conc: 17.31 ug/ml

Instrument :

FID_E

ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 21.972 min
Delta R.T.: 0.003 min
Response: 2032080
Conc: 18.25 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100824AL\
Data File : FE050540.D
Signal(s) : FID1B.ch
Acq On : 07 Oct 2024 16:37
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.218	3.344	BB	267501	2689462	85.10%	4.538%
2	4.503	4.461	4.594	BB	270567	2733520	86.50%	4.612%
3	6.214	6.188	6.371	BB	236720	2714676	85.90%	4.580%
4	6.670	6.634	6.758	BB	272468	2741257	86.74%	4.625%
5	7.310	7.274	7.471	BB	208837	2535659	80.24%	4.278%
6	8.497	8.461	8.591	BB	258171	2716479	85.96%	4.583%
7	10.103	10.068	10.201	BB	252751	2790671	88.31%	4.709%
8	11.544	11.508	11.628	BB	255454	2821757	89.29%	4.761%
9	11.865	11.814	11.938	BB	276376	2942962	93.13%	4.966%
10	12.852	12.774	12.931	BB	237336	2729389	86.37%	4.605%
11	13.299	13.248	13.384	BB	192003	2228627	70.52%	3.760%
12	13.464	13.428	13.544	BB	218379	2653621	83.97%	4.477%
13	14.049	14.019	14.121	VB	220938	2698315	85.38%	4.553%
14	15.151	15.088	15.228	BB	225510	2823967	89.36%	4.765%
15	16.170	16.018	16.248	BB	220922	2863872	90.62%	4.832%
16	17.118	17.054	17.191	BB	221073	2984657	94.45%	5.036%
17	18.005	17.918	18.052	PV	237213	3160183	100.00%	5.332%
18	18.837	18.801	18.898	BB	222662	3132221	99.12%	5.285%
19	19.619	19.561	19.668	BV	184014	2741344	86.75%	4.625%
20	20.359	20.321	20.409	BBA	159661	2393312	75.73%	4.038%
21	21.084	21.021	21.141	BV	128474	2140081	67.72%	3.611%
22	21.972	21.861	22.099	BBA	86878	2032080	64.30%	3.429%
Sum of corrected areas:							59268111	

Aliphatic EPH 100824.M Mon Oct 07 17:02:35 2024

Continuing Calibration Report for SequenceID : FC101124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC067399.D

Aliphatic C9-C12	7575097.000	60.000	3.175	6.457	126251.617	128354.488	1.638
Aliphatic C12-C16	4987010.000	40.000	6.458	9.848	124675.250	130957.677	4.797
Aliphatic C16-C21	7246870.000	60.000	9.849	13.207	120781.167	131476.102	8.135
Aliphatic C21-C28	9150736.000	80.000	13.208	16.862	114384.200	126823.664	9.808
Aliphatic C28-C40	11671078.000	120.000	16.863	21.712	97258.983	105215.848	7.562
Aliphatic EPH	40630791.000	360.000	3.175	21.712	112863.308	121110.937	6.810

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	11 Oct 2024 12:04
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067399.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.175	6.457	7575097.000	60.000	ug/ml
Aliphatic C12-C16	6.458	9.848	4987010.000	40.000	ug/ml
Aliphatic C16-C21	9.849	13.207	7246870.000	60.000	ug/ml
Aliphatic C21-C28	13.208	16.862	9150736.000	80.000	ug/ml
Aliphatic C28-C40	16.863	21.712	11671078.000	120.000	ug/ml
Aliphatic EPH	3.175	21.712	40630791.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
 Data File : FC067399.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 12:04
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 14 03:23:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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	2789177	18.330 ug/ml
Spiked Amount 50.000		Recovery =	36.66%
12) S 1-chlorooctadecane (S...	12.938	2066765	18.259 ug/ml
Spiked Amount 50.000		Recovery =	36.52%
Target Compounds			
1) T n-Nonane (C9)	3.275	2493829	19.674 ug/ml
2) T n-Decane (C10)	4.341	2537227	19.738 ug/ml
3) T A~Naphthalene (C11.7)	5.919	2796727	19.715 ug/ml
4) T n-Dodecane (C12)	6.357	2544041	19.605 ug/ml
5) T A~2-methylnaphthalene...	6.975	2684895	19.571 ug/ml
6) T n-Tetradecane (C14)	8.150	2479052	19.248 ug/ml
7) T n-Hexadecane (C16)	9.748	2507958	18.840 ug/ml
8) T n-Octadecane (C18)	11.189	2503839	18.465 ug/ml
10) T n-Eicosane (C20)	12.496	2397547	18.362 ug/ml
11) T n-Heneicosane (C21)	13.107	2345484	18.287 ug/ml
13) T n-Docosane (C22)	13.692	2329942	18.247 ug/ml
14) T n-Tetracosane (C24)	14.794	2312708	18.083 ug/ml
15) T n-Hexacosane (C26)	15.813	2273830	18.034 ug/ml
16) T n-Octacosane (C28)	16.762	2234256	17.785 ug/ml
17) T n-Tricontane (C30)	17.649	2272704	17.642 ug/ml
18) T n-Dotriacontane (C32)	18.480	2210637	17.695 ug/ml
19) T n-Tetratriacontane (C34)	19.263	1961296	17.948 ug/ml
20) T n-Hexatriacontane (C36)	20.001	1798611	19.029 ug/ml
21) T n-Octatriacontane (C38)	20.725	1644990	18.757 ug/ml
22) T n-Tetracontane (C40)	21.612	1782840	20.719 ug/ml

(f)=RT Delta > 1/2 Window

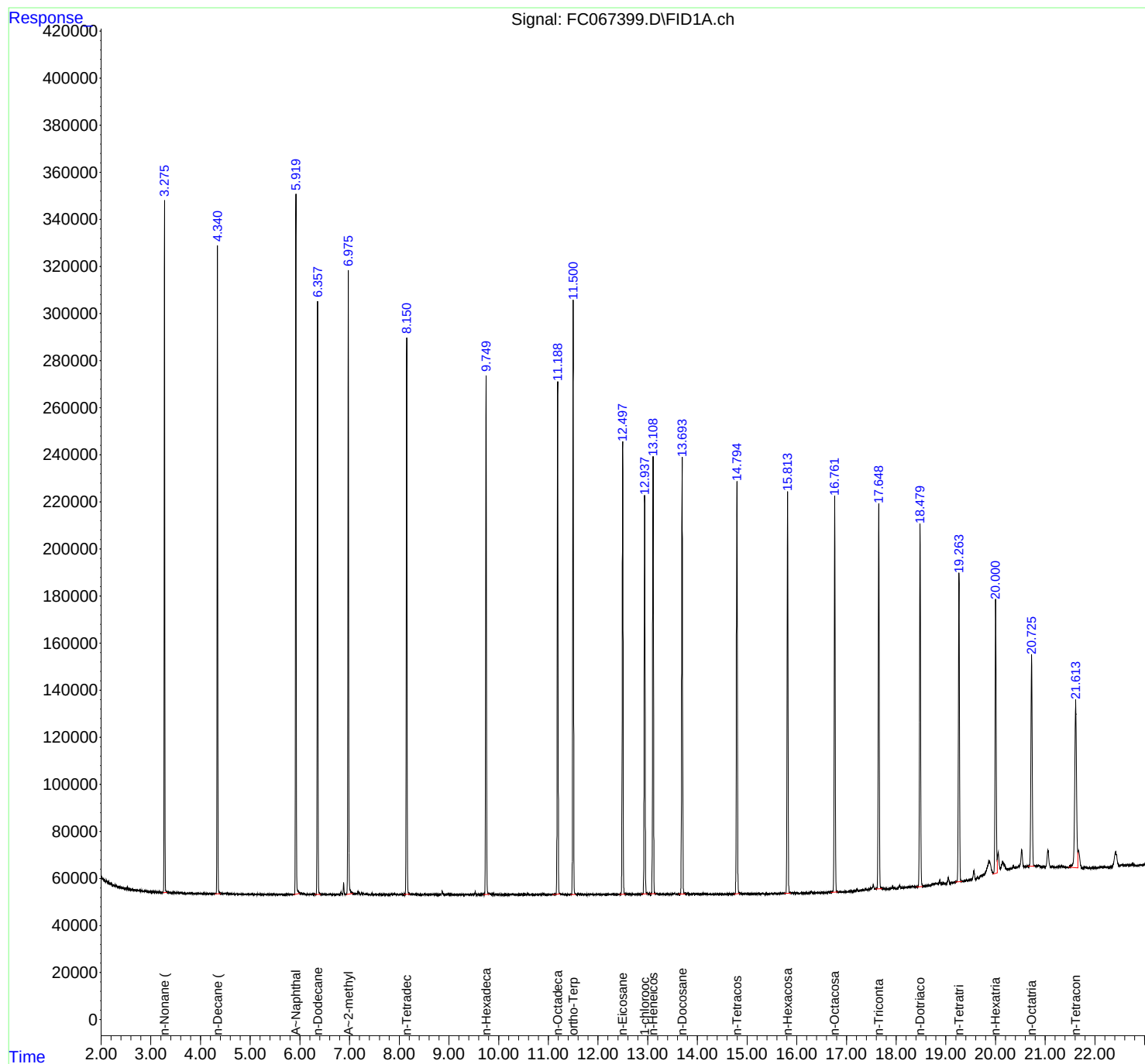
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067399.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 12:04
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 14 03:23:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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\FC101124AL\
Data File : FC067399.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 12:04
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.245	3.327	BB	293861	2493829	89.17%	4.893%
2	4.341	4.287	4.408	BB	274167	2537227	90.72%	4.978%
3	5.919	5.865	6.003	BB	298774	2796727	100.00%	5.487%
4	6.357	6.298	6.422	BB	251568	2544041	90.96%	4.991%
5	6.975	6.927	7.065	BB	265094	2684895	96.00%	5.268%
6	8.150	8.097	8.213	BB	235871	2479052	88.64%	4.864%
7	9.748	9.693	9.812	BB	219972	2507958	89.67%	4.921%
8	11.189	11.083	11.240	BB	217156	2503839	89.53%	4.913%
9	11.500	11.443	11.555	BB	251249	2789177	99.73%	5.472%
10	12.496	12.428	12.558	BB	192372	2397547	85.73%	4.704%
11	12.938	12.880	12.995	BB	167017	2066765	73.90%	4.055%
12	13.107	13.038	13.158	BB	184176	2345484	83.87%	4.602%
13	13.692	13.625	13.757	BB	183156	2329942	83.31%	4.571%
14	14.794	14.730	14.852	BB	174420	2312708	82.69%	4.538%
15	15.813	15.748	15.875	BB	170761	2273830	81.30%	4.461%
16	16.762	16.682	16.822	BB	168487	2234256	79.89%	4.384%
17	17.649	17.580	17.718	BB	163007	2272704	81.26%	4.459%
18	18.480	18.410	18.535	BB	153056	2210637	79.04%	4.337%
19	19.263	19.187	19.325	BB	130663	1961296	70.13%	3.848%
20	20.001	19.952	20.033	VV	115376	1798611	64.31%	3.529%
21	20.725	20.648	20.785	BB	89727	1644990	58.82%	3.227%
22	21.612	21.470	21.659	BV	69572	1782840	63.75%	3.498%
Sum of corrected areas:							50968354	

Aliphatic EPH 100224.M Mon Oct 14 04:39:07 2024

Continuing Calibration Report for SequenceID : FC101124AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC067408.D

Aliphatic C9-C12	7676829.000	60.000	3.175	6.457	127947.150	128354.488	0.317
Aliphatic C12-C16	4998555.000	40.000	6.458	9.848	124963.875	130957.677	4.577
Aliphatic C16-C21	7249603.000	60.000	9.849	13.207	120826.717	131476.102	8.100
Aliphatic C21-C28	9222288.000	80.000	13.208	16.862	115278.600	126823.664	9.103
Aliphatic C28-C40	12019967.000	120.000	16.863	21.712	100166.392	105215.848	4.799
Aliphatic EPH	41167242.000	360.000	3.175	21.712	114353.450	121110.937	5.580

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	11 Oct 2024 19:42
Client Sample ID:		Operator:	YP/AJ
Data file:	FC067408.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.175	6.457	7676829.000	60.000	ug/ml
Aliphatic C12-C16	6.458	9.848	4998555.000	40.000	ug/ml
Aliphatic C16-C21	9.849	13.207	7249603.000	60.000	ug/ml
Aliphatic C21-C28	13.208	16.862	9222288.000	80.000	ug/ml
Aliphatic C28-C40	16.863	21.712	12019967.000	120.000	ug/ml
Aliphatic EPH	3.175	21.712	41167242.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F101124AL\
 Data File : FC067408.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 19:42
 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

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/14/2024
 Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
 Quant Time: Oct 14 03:24:57 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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	2784624	18.300 ug/ml
Spiked Amount 50.000		Recovery =	36.60%
12) S 1-chlorooctadecane (S...	12.942	2070747	18.294 ug/ml
Spiked Amount 50.000		Recovery =	36.59%
Target Compounds			
1) T n-Nonane (C9)	3.276	2538045	20.023 ug/ml
2) T n-Decane (C10)	4.342	2575570	20.037 ug/ml
3) T A~Naphthalene (C11.7)	5.922	2829476	19.946 ug/ml
4) T n-Dodecane (C12)	6.359	2563214	19.753 ug/ml
5) T A~2-methylnaphthalene...	6.978	2707060	19.732 ug/ml
6) T n-Tetradecane (C14)	8.152	2485758	19.300 ug/ml
7) T n-Hexadecane (C16)	9.751	2512797	18.876 ug/ml
8) T n-Octadecane (C18)	11.191	2503828	18.465 ug/ml
10) T n-Eicosane (C20)	12.500	2393955	18.335 ug/ml
11) T n-Heneicosane (C21)	13.111	2351820	18.337 ug/ml
13) T n-Docosane (C22)	13.696	2333543	18.275 ug/ml
14) T n-Tetracosane (C24)	14.797	2324447	18.175 ug/ml
15) T n-Hexacosane (C26)	15.817	2290559	18.167 ug/ml
16) T n-Octacosane (C28)	16.765	2273739	18.099 ug/mlm
17) T n-Tricontane (C30)	17.652	2314557	17.967 ug/ml
18) T n-Dotriacontane (C32)	18.483	2294898	18.370 ug/mlm
19) T n-Tetratriacontane (C34)	19.267	2025443	18.535 ug/mlm
20) T n-Hexatriacontane (C36)	20.005	1749945	18.515 ug/mlm
21) T n-Octatriacontane (C38)	20.731	1876713	21.399 ug/mlm
22) T n-Tetracontane (C40)	21.618	1758411	20.435 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067408.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 19:42
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

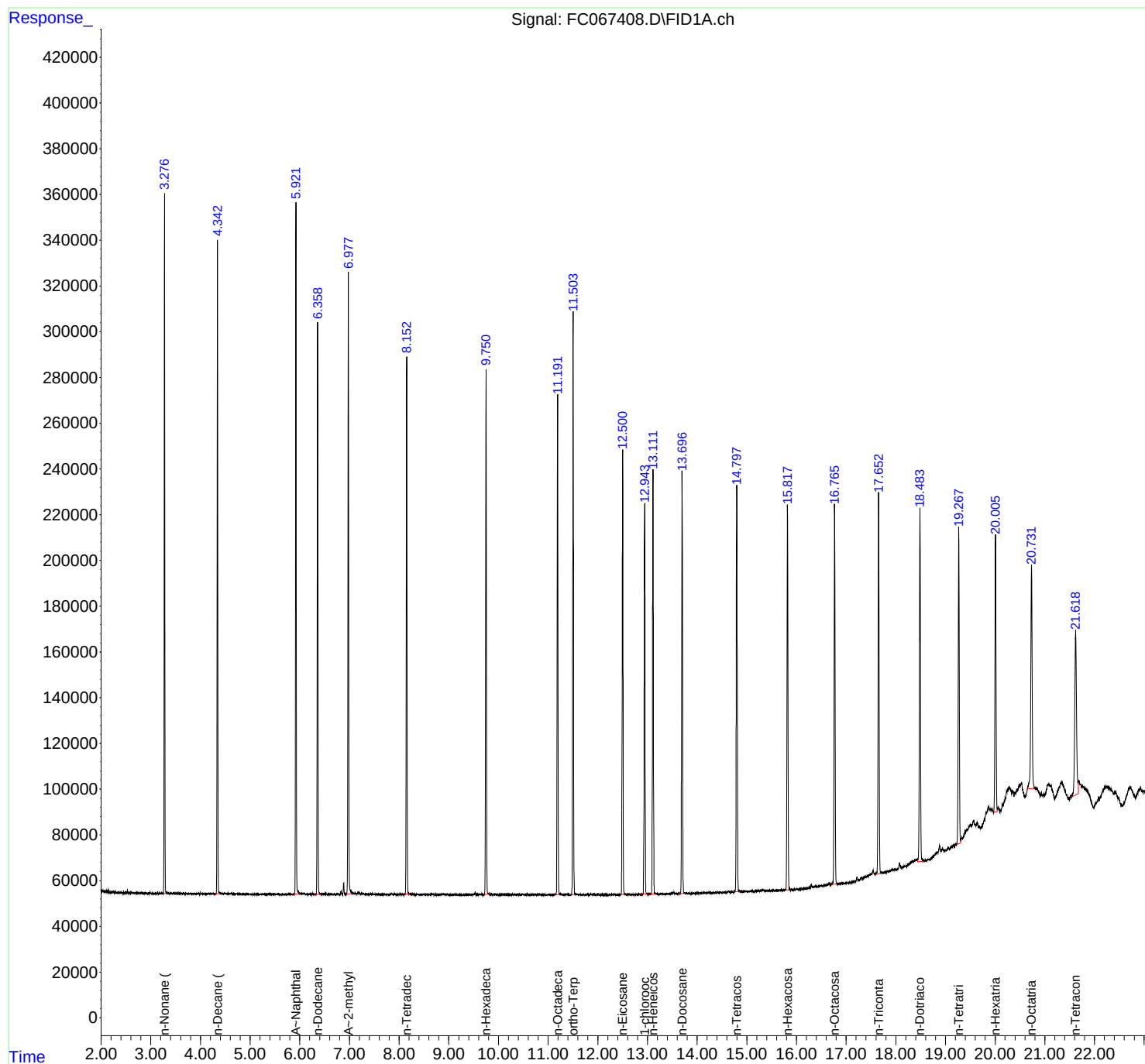
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:24:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112
Data File : FC067408.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 19:42
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.325	BB	307227	2538045	89.70%	4.939%
2	4.342	4.288	4.400	BB	285124	2575570	91.03%	5.013%
3	5.922	5.867	6.002	BB	301685	2829476	100.00%	5.507%
4	6.359	6.295	6.420	BB	250379	2563214	90.59%	4.988%
5	6.978	6.930	7.068	BB	269936	2707060	95.67%	5.268%
6	8.152	8.095	8.212	BB	235413	2485758	87.85%	4.838%
7	9.751	9.692	9.805	BB	226431	2512797	88.81%	4.890%
8	11.191	11.133	11.243	BB	218394	2503828	88.49%	4.873%
9	11.503	11.435	11.553	BB	255220	2784624	98.41%	5.419%
10	12.500	12.440	12.553	BB	194227	2393955	84.61%	4.659%
11	12.942	12.877	12.995	BB	169582	2070747	73.18%	4.030%
12	13.111	13.052	13.168	BB	185808	2351820	83.12%	4.577%
13	13.696	13.628	13.760	BB	184911	2333543	82.47%	4.541%
14	14.797	14.732	14.857	BB	177718	2324447	82.15%	4.524%
15	15.817	15.777	15.877	BB	166747	2290559	80.95%	4.458%
16	16.766	16.608	16.825	BB	164367	2273028	80.33%	4.424%
17	17.652	17.600	17.702	BB	166338	2314557	81.80%	4.505%
18	18.483	18.446	18.540	M	154640	2287088	80.83%	4.451%
19	19.267	19.227	19.308	M	138149	2003873	70.82%	3.900%
20	20.005	19.967	20.042	M	121150	1740826	61.52%	3.388%
21	20.731	20.659	20.791	M	97265	1819697	64.31%	3.541%
22	21.619	21.465	21.668	PV	70869	1678269	59.31%	3.266%
Sum of corrected areas:						51382784		

Aliphatic EPH 100224.M Mon Oct 14 04:41:52 2024

Continuing Calibration Report for SequenceID : FE101224AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FE050616.D

Aliphatic C9-C12	8023696.000	60.000	3.149	6.765	133728.267	142899.930	6.418
Aliphatic C12-C16	5383481.000	40.000	6.766	10.197	134587.025	145118.273	7.257
Aliphatic C16-C21	7961151.000	60.000	10.198	13.555	132685.850	144401.245	8.113
Aliphatic C21-C28	10130342.000	80.000	13.556	17.208	126629.275	142154.874	10.922
Aliphatic C28-C40	13834145.000	120.000	17.209	22.055	115284.542	138303.281	16.644
Aliphatic EPH	45332815.000	360.000	3.149	22.055	125924.486	141698.847	11.132

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	11 Oct 2024 12:32
Client Sample ID:		Operator:	YPVAJ
Data file:	FE050616.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.149	6.765	8023696.000	60.000	ug/ml
Aliphatic C12-C16	6.766	10.197	5383481.000	40.000	ug/ml
Aliphatic C16-C21	10.198	13.555	7961151.000	60.000	ug/ml
Aliphatic C21-C28	13.556	17.208	10130342.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.055	13834145.000	120.000	ug/ml
Aliphatic EPH	3.149	22.055	45332815.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050616.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 12:32
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 14 04:37:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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)	11.857	2896068	18.370 ug/ml
Spiked Amount 50.000		Recovery =	36.74%
12) S 1-chlorooctadecane (S...	13.290	2161687	18.274 ug/ml
Spiked Amount 50.000		Recovery =	36.55%
Target Compounds			
1) T n-Nonane (C9)	3.249	2646791	18.733 ug/ml
2) T n-Decane (C10)	4.499	2680097	18.680 ug/ml
3) T A~Naphthalene (C11.7)	6.209	2670273	18.674 ug/ml
4) T n-Dodecane (C12)	6.665	2696808	18.736 ug/ml
5) T A~2-methylnaphthalene...	7.305	2487914	18.780 ug/ml
6) T n-Tetradecane (C14)	8.491	2660684	18.597 ug/ml
7) T n-Hexadecane (C16)	10.097	2722797	18.501 ug/ml
8) T n-Octadecane (C18)	11.537	2763524	18.501 ug/ml
10) T n-Eicosane (C20)	12.845	2624976	18.305 ug/ml
11) T n-Heneicosane (C21)	13.455	2572651	18.319 ug/ml
13) T n-Docosane (C22)	14.040	2536257	18.078 ug/ml
14) T n-Tetracosane (C24)	15.141	2533290	17.931 ug/ml
15) T n-Hexacosane (C26)	16.161	2526183	17.952 ug/ml
16) T n-Octacosane (C28)	17.108	2534612	17.321 ug/ml
17) T n-Tricontane (C30)	17.994	2636480	16.581 ug/ml
18) T n-Dotriacontane (C32)	18.826	2617723	16.147 ug/ml
19) T n-Tetratriacontane (C34)	19.609	2412473	16.424 ug/ml
20) T n-Hexatriacontane (C36)	20.347	2137026	16.852 ug/ml
21) T n-Octatriacontane (C38)	21.071	2069896	16.740 ug/ml
22) T n-Tetracontane (C40)	21.955	1960547	17.607 ug/ml

(f)=RT Delta > 1/2 Window

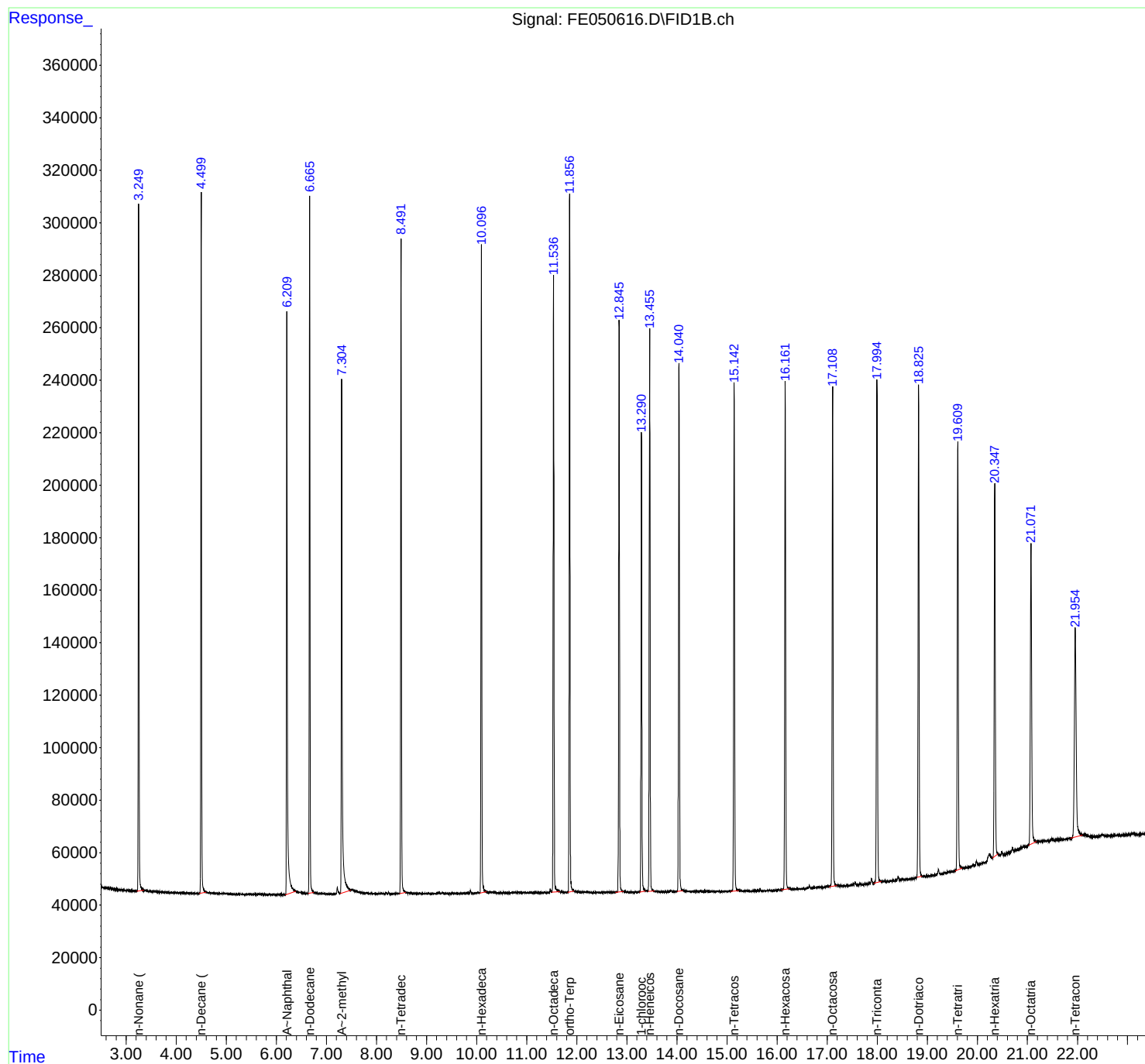
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050616.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 12:32
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 14 04:37:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 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\FE101224AL\
Data File : FE050616.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 12:32
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.249	3.218	3.348	BB	261156	2646791	91.39%	4.765%
2	4.499	4.465	4.598	BB	266237	2680097	92.54%	4.825%
3	6.209	6.178	6.391	BB	221272	2670273	92.20%	4.807%
4	6.665	6.635	6.748	BB	265064	2696808	93.12%	4.855%
5	7.305	7.275	7.488	BB	195267	2487914	85.91%	4.479%
6	8.491	8.455	8.585	BB	248970	2660684	91.87%	4.790%
7	10.097	10.061	10.198	BB	246953	2722797	94.02%	4.902%
8	11.537	11.501	11.655	BB	233055	2763524	95.42%	4.975%
9	11.857	11.818	11.948	BB	264367	2896068	100.00%	5.214%
10	12.845	12.768	12.925	BB	217716	2624976	90.64%	4.726%
11	13.290	13.255	13.375	BB	175046	2161687	74.64%	3.892%
12	13.455	13.421	13.545	BB	213188	2572651	88.83%	4.631%
13	14.040	14.005	14.118	BB	201425	2536257	87.58%	4.566%
14	15.141	15.071	15.231	BB	193083	2533290	87.47%	4.560%
15	16.161	16.075	16.248	BB	192960	2526183	87.23%	4.548%
16	17.108	17.035	17.195	BB	189706	2534612	87.52%	4.563%
17	17.994	17.935	18.078	BB	191544	2636480	91.04%	4.746%
18	18.826	18.791	18.900	BBA	186934	2617723	90.39%	4.712%
19	19.609	19.561	19.698	BB	163856	2412473	83.30%	4.343%
20	20.347	20.301	20.410	BBA	142106	2137026	73.79%	3.847%
21	21.071	21.021	21.178	BB	114411	2069896	71.47%	3.726%
22	21.955	21.861	22.095	BB	79573	1960547	67.70%	3.529%
Sum of corrected areas:							55548756	

Aliphatic EPH 100824.M Mon Oct 14 05:16:14 2024

Continuing Calibration Report for SequenceID : FE101224AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FE050631.D

Aliphatic C9-C12	7938445.000	60.000	3.149	6.765	132307.417	142899.930	7.413
Aliphatic C12-C16	5435679.000	40.000	6.766	10.197	135891.975	145118.273	6.358
Aliphatic C16-C21	8135311.000	60.000	10.198	13.555	135588.517	144401.245	6.103
Aliphatic C21-C28	10629173.000	80.000	13.556	17.208	132864.663	142154.874	6.535
Aliphatic C28-C40	15670634.000	120.000	17.209	22.055	130588.617	138303.281	5.578
Aliphatic EPH	47809242.000	360.000	3.149	22.055	132803.450	141698.847	6.278

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	11 Oct 2024 21:34
Client Sample ID:		Operator:	YP\AJ
Data file:	FE050631.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.149	6.765	7938445.000	60.000	ug/ml
Aliphatic C12-C16	6.766	10.197	5435679.000	40.000	ug/ml
Aliphatic C16-C21	10.198	13.555	8135311.000	60.000	ug/ml
Aliphatic C21-C28	13.556	17.208	10629173.000	80.000	ug/ml
Aliphatic C28-C40	17.209	22.055	15670634.000	120.000	ug/ml
Aliphatic EPH	3.149	22.055	47809242.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
 Data File : FE050631.D
 Signal(s) : FID1B.ch
 Acq On : 11 Oct 2024 21:34
 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 10/14/2024
 Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
 Quant Time: Oct 14 04:40:07 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.M
 Quant Title : GC Extractables
 QLast Update : Mon Oct 07 16:32:18 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	2956172	18.751 ug/ml
Spiked Amount 50.000		Recovery =	37.50%
12) S 1-chlorooctadecane (S...	13.292	2243412	18.965 ug/ml
Spiked Amount 50.000		Recovery =	37.93%
Target Compounds			
1) T n-Nonane (C9)	3.249	2589832	18.330 ug/ml
2) T n-Decane (C10)	4.499	2667457	18.592 ug/ml
3) T A~Naphthalene (C11.7)	6.209	2678206	18.730 ug/ml
4) T n-Dodecane (C12)	6.666	2681156	18.628 ug/ml
5) T A~2-methylnaphthalene...	7.305	2488263	18.782 ug/ml
6) T n-Tetradecane (C14)	8.492	2668088	18.649 ug/ml
7) T n-Hexadecane (C16)	10.097	2767591	18.805 ug/ml
8) T n-Octadecane (C18)	11.538	2804450	18.775 ug/ml
10) T n-Eicosane (C20)	12.846	2697522	18.811 ug/ml
11) T n-Heneicosane (C21)	13.457	2633339	18.752 ug/ml
13) T n-Docosane (C22)	14.042	2633267	18.769 ug/ml
14) T n-Tetracosane (C24)	15.144	2634201	18.646 ug/ml
15) T n-Hexacosane (C26)	16.162	2628591	18.680 ug/ml
16) T n-Octacosane (C28)	17.110	2733114	18.678 ug/ml
17) T n-Tricontane (C30)	17.998	3025791	19.030 ug/ml
18) T n-Dotriacontane (C32)	18.829	3114491	19.212 ug/ml
19) T n-Tetratriacontane (C34)	19.612	2829577	19.263 ug/ml
20) T n-Hexatriacontane (C36)	20.351	2449309	19.314 ug/ml
21) T n-Octatriacontane (C38)	21.074	2306975	18.658 ug/ml
22) T n-Tetracontane (C40)	21.959	1944491	17.463 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE101224AL\
Data File : FE050631.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 21:34
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

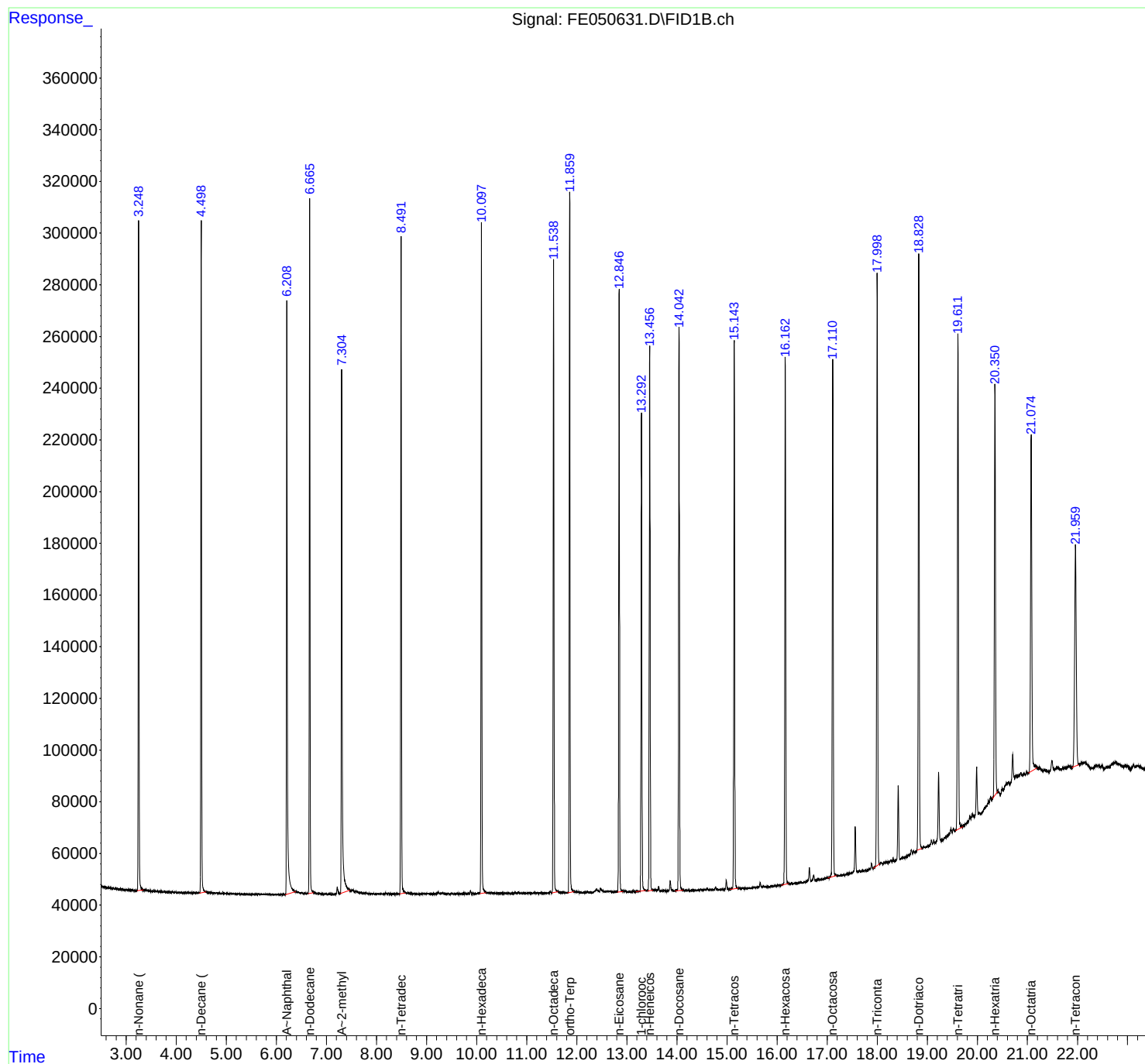
Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 04:40:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.
Quant Title : GC Extractables
QLast Update : Mon Oct 07 16:32:18 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

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE10122
Data File : FE050631.D
Signal(s) : FID1B.ch
Acq On : 11 Oct 2024 21:34
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 100824.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	3.249	3.218	3.344	BB	258202	2589832	83.15%	4.454%
2	4.499	4.468	4.588	BB	259652	2667457	85.65%	4.587%
3	6.209	6.184	6.384	BB	229056	2678206	85.99%	4.606%
4	6.666	6.634	6.744	BB	266673	2681156	86.09%	4.611%
5	7.305	7.274	7.464	BB	202249	2488263	79.89%	4.279%
6	8.492	8.458	8.578	BB	253632	2668088	85.67%	4.588%
7	10.097	10.061	10.188	BB	259263	2767591	88.86%	4.759%
8	11.538	11.501	11.624	BB	245275	2804450	90.05%	4.823%
9	11.858	11.811	11.948	BB	269962	2956172	94.92%	5.084%
10	12.846	12.808	12.924	BB	231716	2697522	86.61%	4.639%
11	13.292	13.184	13.374	BB	184567	2243412	72.03%	3.858%
12	13.457	13.418	13.524	BB	209958	2633339	84.55%	4.528%
13	14.042	13.971	14.121	BB	218079	2633267	84.55%	4.528%
14	15.144	15.061	15.224	BB	211412	2634201	84.58%	4.530%
15	16.162	16.084	16.228	BB	203321	2628591	84.40%	4.520%
16	17.110	17.014	17.181	BB	199424	2733114	87.75%	4.700%
17	17.998	17.928	18.048	BB	228393	3025791	97.15%	5.203%
18	18.829	18.791	18.899	BBA	230101	3114491	100.00%	5.356%
19	19.612	19.561	19.708	BB	191483	2829577	90.85%	4.866%
20	20.351	20.301	20.409	BBA	158481	2449309	78.64%	4.212%
21	21.074	21.021	21.194	BB	130289	2306975	74.07%	3.967%
22	21.959	21.861	22.025	BB	85402	1919783	61.64%	3.301%
Sum of corrected areas:							58150587	

Aliphatic EPH 100824.M Mon Oct 14 05:17:42 2024



QC SAMPLE DATA

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	PB164070BL	SDG No.:	P4385
Lab Sample ID:	PB164070BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 14:12	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067400.D
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1	1.72	3.99	mg/kg	FC067400.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	PB164070BL	SDG No.:	P4385
Lab Sample ID:	PB164070BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067400.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.4		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.0		40 - 140	66%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164070BL	Acq On:	11 Oct 2024 14:12
Client Sample ID:	PB164070BL	Operator:	YP/AJ
Data file:	FC067400.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	0	0	300	ug/ml
Aliphatic C12-C16	6.458	9.848	0	0	200	ug/ml
Aliphatic C16-C21	9.849	13.207	0	0	300	ug/ml
Aliphatic C21-C28	13.208	16.862	0	0	400	ug/ml
Aliphatic C28-C40	16.863	21.712	0	0	600	ug/ml
Aliphatic EPH	3.175	21.712	0	0		ug/ml
ortho-Terphenyl (SURR)	11.501	11.501	5017691	32.98		ug/ml
1-chlorooctadecane (SURR)	12.940	12.940	3893672	34.4		ug/ml
Aliphatic C9-C28	3.175	16.862	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
 Data File : FC067400.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 14:12
 Operator : YP/AJ
 Sample : PB164070BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB164070BL

Integration File: autoint1.e
 Quant Time: Oct 14 03:23:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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)	11.501	5017691	32.976 ug/ml
Spiked Amount	50.000	Recovery	= 65.95%
12) S 1-chlorooctadecane (S...	12.940	3893672	34.398 ug/ml
Spiked Amount	50.000	Recovery	= 68.80%

Target Compounds

(f)=RT Delta > 1/2 Window

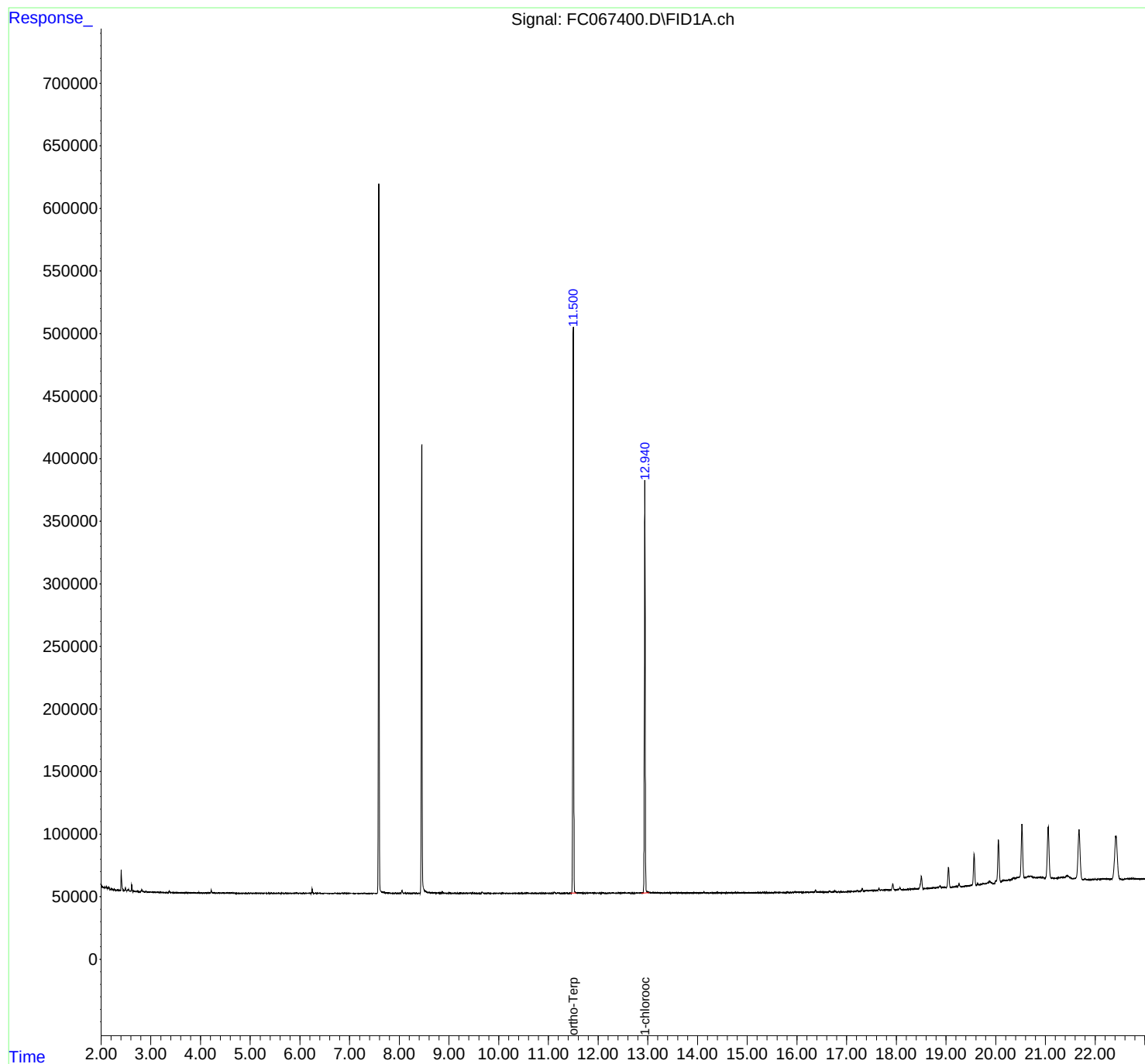
(m)=manual int.

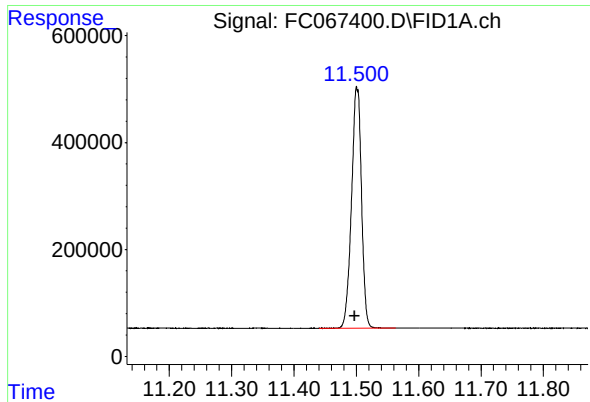
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067400.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 14:12
Operator : YP/AJ
Sample : PB164070BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164070BL

Integration File: autoint1.e
Quant Time: Oct 14 03:23:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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

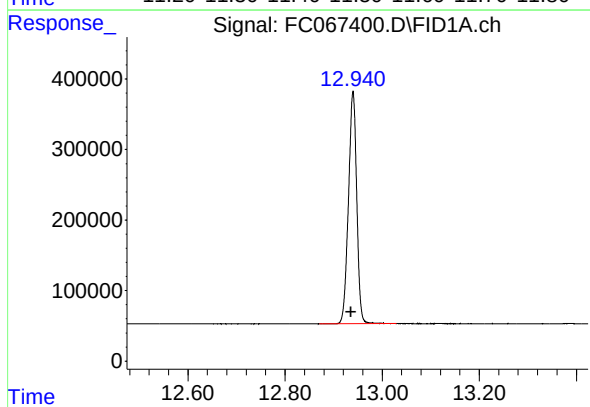




#9 ortho-Terphenyl (SURR)

R.T.: 11.501 min
Delta R.T.: 0.004 min
Response: 5017691
Conc: 32.98 ug/ml

Instrument :
FID_C
ClientSampleId :
PB164070BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.940 min
Delta R.T.: 0.004 min
Response: 3893672
Conc: 34.40 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067400.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 14:12
Sample : PB164070BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	11.501	11.440	11.563	BB	444892	5017691	100.00%	56.307%
2	12.940	12.870	13.028	BB	329448	3893672	77.60%	43.693%
Sum of corrected areas:							8911363	

Aliphatic EPH 100224.M Mon Oct 14 04:39:21 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	PB164070BS	SDG No.:	P4385
Lab Sample ID:	PB164070BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 14:49	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	27.2		1	1.80	2.00	mg/kg	FC067401.D
Aliphatic C9-C28	Aliphatic C9-C28	70.8		1	1.72	4.00	mg/kg	FC067401.D
Total AliphaticEPH	Total AliphaticEPH	98.0			3.52	6.00	mg/kg	
Total EPH	Total EPH	98.0			3.52	6.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	PB164070BS	SDG No.:	P4385
Lab Sample ID:	PB164070BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067401.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	70.8		1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.2		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.0		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.4		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164070BS	Acq On:	11 Oct 2024 14:49
Client Sample ID:	PB164070BS	Operator:	YP/AJ
Data file:	FC067401.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	24435479	190.375	300	ug/ml
Aliphatic C12-C16	6.458	9.848	31896095	243.56	200	ug/ml
Aliphatic C16-C21	9.849	13.207	36586203	278.273	300	ug/ml
Aliphatic C21-C28	13.208	16.862	44462454	350.585	400	ug/ml
Aliphatic C28-C40	16.863	21.712	43021133	408.885	600	ug/ml
Aliphatic EPH	3.175	21.712	180401364	1470		ug/ml
ortho-Terphenyl (SURR)	11.503	11.503	5384385	35.39		ug/ml
1-chlorooctadecane (SURR)	12.940	12.940	4182641	36.95		ug/ml
Aliphatic C9-C28	3.175	16.862	137380231	1060	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F101124AL\
 Data File : FC067401.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 14:49
 Operator : YP/AJ
 Sample : PB164070BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB164070BS

Integration File: autoint1.e
 Quant Time: Oct 14 03:23:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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	5384385	35.386 ug/ml
Spiked Amount 50.000		Recovery =	70.77%
12) S 1-chlorooctadecane (S...	12.940	4182641	36.951 ug/ml
Spiked Amount 50.000		Recovery =	73.90%
Target Compounds			
1) T n-Nonane (C9)	3.281	4261999	33.623 ug/ml
2) T n-Decane (C10)	4.345	4626525	35.992 ug/ml
3) T A~Naphthalene (C11.7)	5.922	5555512	39.163 ug/ml
4) T n-Dodecane (C12)	6.359	4929843	37.991 ug/ml
5) T A~2-methylnaphthalene...	6.977	5279267	38.482 ug/ml
6) T n-Tetradecane (C14)	8.153	5027208	39.032 ug/ml
7) T n-Hexadecane (C16)	9.750	4985326	37.450 ug/ml
8) T n-Octadecane (C18)	11.190	4973406	36.676 ug/ml
10) T n-Eicosane (C20)	12.499	5004916	38.331 ug/ml
11) T n-Heneicosane (C21)	13.109	4800183	37.426 ug/ml
13) T n-Docosane (C22)	13.694	4777975	37.419 ug/ml
14) T n-Tetracosane (C24)	14.796	4628267	36.189 ug/ml
15) T n-Hexacosane (C26)	15.818	4679558	37.114 ug/ml
16) T n-Octacosane (C28)	16.764	4673828	37.203 ug/ml
17) T n-Tricontane (C30)	17.652	4850171	37.649 ug/ml
18) T n-Dotriacontane (C32)	18.482	4644732	37.179 ug/ml
19) T n-Tetratriacontane (C34)	19.265	4581812	41.928 ug/ml
20) T n-Hexatriacontane (C36)	20.004	4279856	45.281 ug/ml
21) T n-Octatriacontane (C38)	20.727	4027717	45.926 ug/ml
22) T n-Tetracontane (C40)	21.615	5227858	60.755 ug/ml

(f)=RT Delta > 1/2 Window

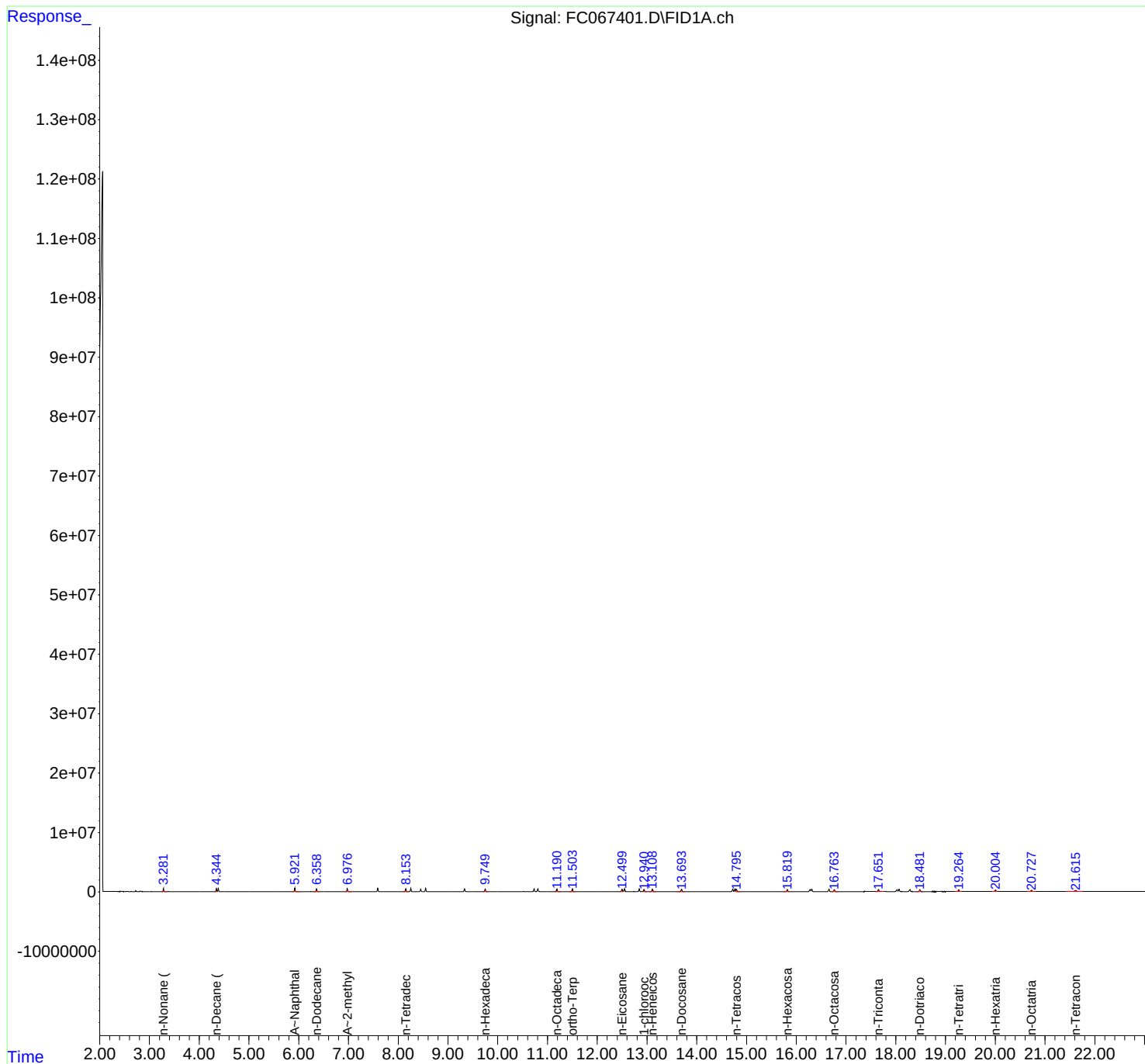
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067401.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 14:49
Operator : YP/AJ
Sample : PB164070BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164070BS

Integration File: autoint1.e
Quant Time: Oct 14 03:23:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
 Data File : FC067401.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 14:49
 Sample : PB164070BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.281	3.247	3.349	BB	509148	4261999	75.90%	2.244%
2	4.345	4.304	4.364	BV	514838	4626525	82.40%	2.435%
3	4.384	4.364	4.459	VB	581530	5061600	90.14%	2.664%
4	5.922	5.870	6.035	BB	590892	5555512	98.94%	2.924%
5	6.359	6.294	6.415	BB	492756	4929843	87.80%	2.595%
6	6.977	6.927	7.075	BB	541727	5279267	94.02%	2.779%
7	8.153	8.092	8.207	BB	474371	5027208	89.53%	2.646%
8	8.255	8.214	8.320	BB	558987	5442958	96.94%	2.865%
9	8.552	8.515	8.612	VB	550333	5615036	100.00%	2.956%
10	9.334	9.275	9.442	BB	505807	5546300	98.78%	2.920%
11	9.750	9.714	9.805	BB	447969	4985326	88.79%	2.624%
12	10.733	10.644	10.775	BV	503413	5419894	96.52%	2.853%
13	10.808	10.775	10.932	VB	491192	5465885	97.34%	2.877%
14	11.190	11.149	11.272	BB	424011	4973406	88.57%	2.618%
15	11.503	11.435	11.560	BB	493074	5384385	95.89%	2.834%
16	12.499	12.459	12.522	PV	409671	5004916	89.13%	2.635%
17	12.549	12.522	12.632	VB	461883	5310438	94.58%	2.795%
18	12.846	12.775	12.880	BV	484268	5611481	99.94%	2.954%
19	12.940	12.910	13.002	VB	344315	4182641	74.49%	2.202%
20	13.109	13.047	13.179	BB	401298	4800183	85.49%	2.527%
21	13.694	13.599	13.759	BB	383863	4777975	85.09%	2.515%
22	14.723	14.655	14.742	BV	395964	5129832	91.36%	2.700%
23	14.766	14.742	14.780	VV	440211	5289570	94.20%	2.784%
24	14.796	14.780	14.872	VB	383448	4628267	82.43%	2.436%
25	15.818	15.745	15.859	BB	358302	4679558	83.34%	2.463%
26	16.277	16.199	16.293	BV	359057	5125039	91.27%	2.698%
27	16.312	16.293	16.354	VV	415303	5162156	91.93%	2.717%
28	16.658	16.589	16.705	BV	388252	4996229	88.98%	2.630%
29	16.764	16.705	16.844	VB	321100	4673828	83.24%	2.460%
30	17.652	17.592	17.760	VB	345130	4850171	86.38%	2.553%
31	18.027	17.947	18.044	BV	338414	5368513	95.61%	2.826%
32	18.066	18.044	18.165	VB	399317	5114994	91.09%	2.693%
33	18.283	18.209	18.365	BB	341759	4925480	87.72%	2.593%
34	18.482	18.409	18.537	BB	308083	4644732	82.72%	2.445%
35	19.265	19.189	19.329	BB	315330	4581812	81.60%	2.412%
36	20.004	19.934	20.044	BV	279306	4279856	76.22%	2.253%

						rters		
37	20.727	20.642	20.809	BB	234728	4027717	71.73%	2.120%
38	21.615	21.422	21.759	BV	176659	5227858	93.10%	2.752%
					Sum of corrected areas:			189968390

Aliphatic EPH 100224.M Mon Oct 14 04:39:54 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	PB164070BSD	SDG No.:	P4385
Lab Sample ID:	PB164070BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 15:25	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	27.8		1	1.80	2.00	mg/kg	FC067402.D
Aliphatic C9-C28	Aliphatic C9-C28	74.2		1	1.72	3.99	mg/kg	FC067402.D
Total AliphaticEPH	Total AliphaticEPH	102			3.52	5.99	mg/kg	
Total EPH	Total EPH	102			3.52	5.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	PB164070BSD	SDG No.:	P4385
Lab Sample ID:	PB164070BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067402.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	74.2		1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.8		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.7		40 - 140	77%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.1		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB164070BSD	Acq On:	11 Oct 2024 15:25
Client Sample ID:	PB164070BSD	Operator:	YP/AJ
Data file:	FC067402.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.175	6.457	25660178	199.916	300	ug/ml
Aliphatic C12-C16	6.458	9.848	33412457	255.139	200	ug/ml
Aliphatic C16-C21	9.849	13.207	38352971	291.711	300	ug/ml
Aliphatic C21-C28	13.208	16.862	46650565	367.838	400	ug/ml
Aliphatic C28-C40	16.863	21.712	43888549	417.129	600	ug/ml
Aliphatic EPH	3.175	21.712	187964720	1530		ug/ml
ortho-Terphenyl (SURR)	11.503	11.503	5645722	37.1		ug/ml
1-chlorooctadecane (SURR)	12.941	12.941	4381848	38.71		ug/ml
Aliphatic C9-C28	3.175	16.862	144076171	1110	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F101124AL\
 Data File : FC067402.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 15:25
 Operator : YP/AJ
 Sample : PB164070BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 PB164070BSD

Integration File: autoint1.e
 Quant Time: Oct 14 03:23:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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	5645722	37.103 ug/ml
Spiked Amount 50.000		Recovery =	74.21%
12) S 1-chlorooctadecane (S...	12.941	4381848	38.711 ug/ml
Spiked Amount 50.000		Recovery =	77.42%
Target Compounds			
1) T n-Nonane (C9)	3.282	4488182	35.407 ug/ml
2) T n-Decane (C10)	4.346	4865196	37.849 ug/ml
3) T A~Naphthalene (C11.7)	5.922	5813067	40.979 ug/ml
4) T n-Dodecane (C12)	6.359	5172896	39.864 ug/ml
5) T A~2-methylnaphthalene...	6.977	5534399	40.341 ug/ml
6) T n-Tetradecane (C14)	8.153	5258281	40.826 ug/ml
7) T n-Hexadecane (C16)	9.750	5212858	39.160 ug/ml
8) T n-Octadecane (C18)	11.191	5201365	38.358 ug/ml
10) T n-Eicosane (C20)	12.499	5240891	40.139 ug/ml
11) T n-Heneicosane (C21)	13.110	5032121	39.235 ug/ml
13) T n-Docosane (C22)	13.695	4999096	39.151 ug/ml
14) T n-Tetracosane (C24)	14.796	4776999	37.352 ug/ml
15) T n-Hexacosane (C26)	15.818	4908804	38.932 ug/ml
16) T n-Octacosane (C28)	16.765	4903482	39.031 ug/ml
17) T n-Tricontane (C30)	17.652	4938126	38.332 ug/ml
18) T n-Dotriacontane (C32)	18.483	4886400	39.114 ug/ml
19) T n-Tetratriacontane (C34)	19.266	4811925	44.034 ug/ml
20) T n-Hexatriacontane (C36)	20.004	4489177	47.496 ug/ml
21) T n-Octatriacontane (C38)	20.729	4214361	48.054 ug/ml
22) T n-Tetracontane (C40)	21.616	3960011	46.021 ug/ml

(f)=RT Delta > 1/2 Window

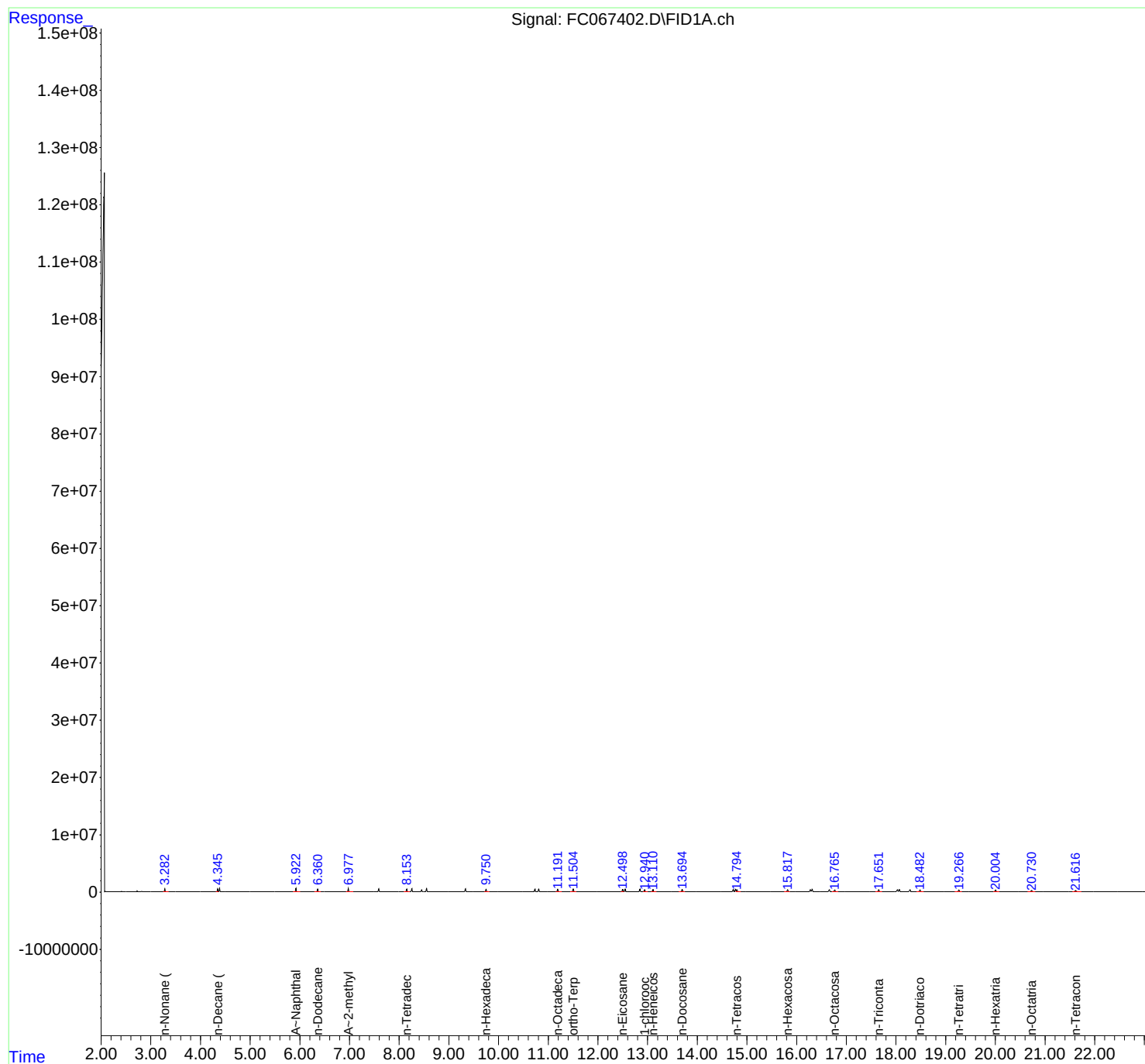
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067402.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 15:25
Operator : YP/AJ
Sample : PB164070BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB164070BSD

Integration File: autoint1.e
Quant Time: Oct 14 03:23:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
 Data File : FC067402.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 15:25
 Sample : PB164070BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.282	3.249	3.355	BB	530390	4488182	76.20%	2.267%
2	4.346	4.312	4.365	BV	542473	4865196	82.60%	2.457%
3	4.384	4.365	4.455	VB	601132	5320837	90.33%	2.687%
4	5.922	5.864	6.007	BB	615875	5813067	98.69%	2.936%
5	6.359	6.294	6.424	BB	504697	5172896	87.82%	2.613%
6	6.977	6.929	7.074	BB	567147	5534399	93.96%	2.795%
7	8.153	8.094	8.215	BB	496487	5258281	89.27%	2.656%
8	8.256	8.215	8.334	BB	565962	5702818	96.82%	2.880%
9	8.552	8.515	8.627	VB	582381	5890130	100.00%	2.975%
10	9.334	9.274	9.439	BB	538975	5813971	98.71%	2.936%
11	9.750	9.717	9.814	BB	469463	5212858	88.50%	2.633%
12	10.734	10.655	10.777	BV	517852	5687619	96.56%	2.873%
13	10.809	10.777	10.925	VB	511734	5731111	97.30%	2.895%
14	11.191	11.150	11.272	BB	452760	5201365	88.31%	2.627%
15	11.503	11.444	11.567	BB	487597	5645722	95.85%	2.851%
16	12.499	12.462	12.522	BV	428876	5240891	88.98%	2.647%
17	12.550	12.522	12.624	VB	487826	5571017	94.58%	2.814%
18	12.847	12.775	12.880	BV	510381	5888847	99.98%	2.974%
19	12.941	12.909	13.002	VB	354270	4381848	74.39%	2.213%
20	13.110	13.069	13.179	BB	400910	5032121	85.43%	2.542%
21	13.695	13.629	13.752	BB	403035	4999096	84.87%	2.525%
22	14.723	14.647	14.742	BV	419579	5386528	91.45%	2.721%
23	14.767	14.742	14.781	VV	456599	5625526	95.51%	2.841%
24	14.796	14.781	14.874	VB	381050	4776999	81.10%	2.413%
25	15.818	15.747	15.860	BB	367487	4908804	83.34%	2.479%
26	16.277	16.224	16.293	BV	357936	5391465	91.53%	2.723%
27	16.312	16.293	16.354	VV	440747	5410535	91.86%	2.733%
28	16.657	16.605	16.709	BV	390560	5248130	89.10%	2.651%
29	16.765	16.709	16.834	VB	337601	4903482	83.25%	2.477%
30	17.652	17.587	17.717	BB	357443	4938126	83.84%	2.494%
31	18.029	17.947	18.045	BV	372119	5645556	95.85%	2.851%
32	18.068	18.045	18.229	VV	405076	5708620	96.92%	2.883%
33	18.284	18.229	18.390	VB	361755	5234373	88.87%	2.644%
34	18.483	18.412	18.555	BB	334807	4886400	82.96%	2.468%
35	19.266	19.180	19.327	BB	331847	4811925	81.69%	2.430%
36	20.004	19.959	20.077	VB	300758	4489177	76.22%	2.267%

						rters		
37	20.729	20.647	20.802	BB	232214	4214361	71.55%	2.129%
38	21.616	21.554	21.730	VB	168347	3960011	67.23%	2.000%
					Sum of corrected areas:			197992288

Aliphatic EPH 100224.M Mon Oct 14 04:40:35 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	OR-02-100924MS	SDG No.:	P4385
Lab Sample ID:	P4376-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 17:15	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	73.1	E	1	1.90	2.11	mg/kg	FC067405.D
Aliphatic C9-C28	Aliphatic C9-C28	72.8		1	1.81	4.20	mg/kg	FC067405.D
Total AliphaticEPH	Total AliphaticEPH	146			3.71	6.31	mg/kg	
Total EPH	Total EPH	146			3.71	6.31	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	OR-02-100924MS	SDG No.:	P4385
Lab Sample ID:	P4376-01MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067405.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	72.8		1.81	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	73.1	E	1.90	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.3		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.3		40 - 140	73%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4376-01MS	Acq On:	11 Oct 2024 17:15
Client Sample ID:	OR-02-100924MS	Operator:	YP/AJ
Data file:	FC067405.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	3.175	6.457	17812741	138.778	300	ug/ml
Aliphatic C12-C16	6.458	9.848	28480646	217.48	200	ug/ml
Aliphatic C16-C21	9.849	13.207	43424263	330.283	300	ug/ml
Aliphatic C21-C28	13.208	16.862	44437861	350.391	400	ug/ml
Aliphatic C28-C40	16.863	21.712	109512902	1040	600	ug/ml
Aliphatic EPH	3.175	21.712	243668413	2080		ug/ml
ortho-Terphenyl (SURR)	11.505	11.505	5522779	36.3		ug/ml
1-chlorooctadecane (SURR)	12.943	12.943	4447580	39.29		ug/ml
Aliphatic C9-C28	3.175	16.862	134155511	1040	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
 Data File : FC067405.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 17:15
 Operator : YP/AJ
 Sample : P4376-01MS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 OR-02-100924MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/14/2024
 Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
 Quant Time: Oct 14 03:24:26 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
 Quant Title : GC Extractables
 QLast Update : Tue Oct 01 09:13:32 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)	11.505	5522779	36.295 ug/mlm
Spiked Amount 50.000		Recovery =	72.59%
12) S 1-chlorooctadecane (S...	12.943	4447580	39.292 ug/ml
Spiked Amount 50.000		Recovery =	78.58%
Target Compounds			
1) T n-Nonane (C9)	3.275	2837990	22.389 ug/ml
2) T n-Decane (C10)	4.343	3224202	25.083 ug/ml
3) T A~Naphthalene (C11.7)	5.922	3927743	27.688 ug/mlm
4) T n-Dodecane (C12)	6.360	3547867	27.341 ug/ml
5) T A~2-methylnaphthalene...	6.978	3921805	28.587 ug/ml
6) T n-Tetradecane (C14)	8.154	3989946	30.978 ug/ml
7) T n-Hexadecane (C16)	9.752	4218142	31.687 ug/ml
8) T n-Octadecane (C18)	11.193	4231164	31.203 ug/ml
10) T n-Eicosane (C20)	12.500	4298237	32.919 ug/ml
11) T n-Heneicosane (C21)	13.111	4351119	33.925 ug/ml
13) T n-Docosane (C22)	13.697	4154517	32.537 ug/ml
14) T n-Tetracosane (C24)	14.799	3790086	29.635 ug/ml
15) T n-Hexacosane (C26)	15.820	3983360	31.592 ug/ml
16) T n-Octacosane (C28)	16.767	4059594	32.314 ug/mlm
17) T n-Tricontane (C30)	17.656	4117954	31.966 ug/mlm
18) T n-Dotriacontane (C32)	18.487	4080380	32.662 ug/mlm
19) T n-Tetratriacontane (C34)	19.271	4130217	37.796 ug/mlm
20) T n-Hexatriacontane (C36)	20.012	3803324	40.239 ug/mlm
21) T n-Octatriacontane (C38)	20.738	3966624	45.230 ug/mlm
22) T n-Tetracontane (C40)	21.632	3892509	45.237 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067405.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 17:15
Operator : YP/AJ
Sample : P4376-01MS
Misc :
ALS Vial : 16 Sample Multiplier: 1

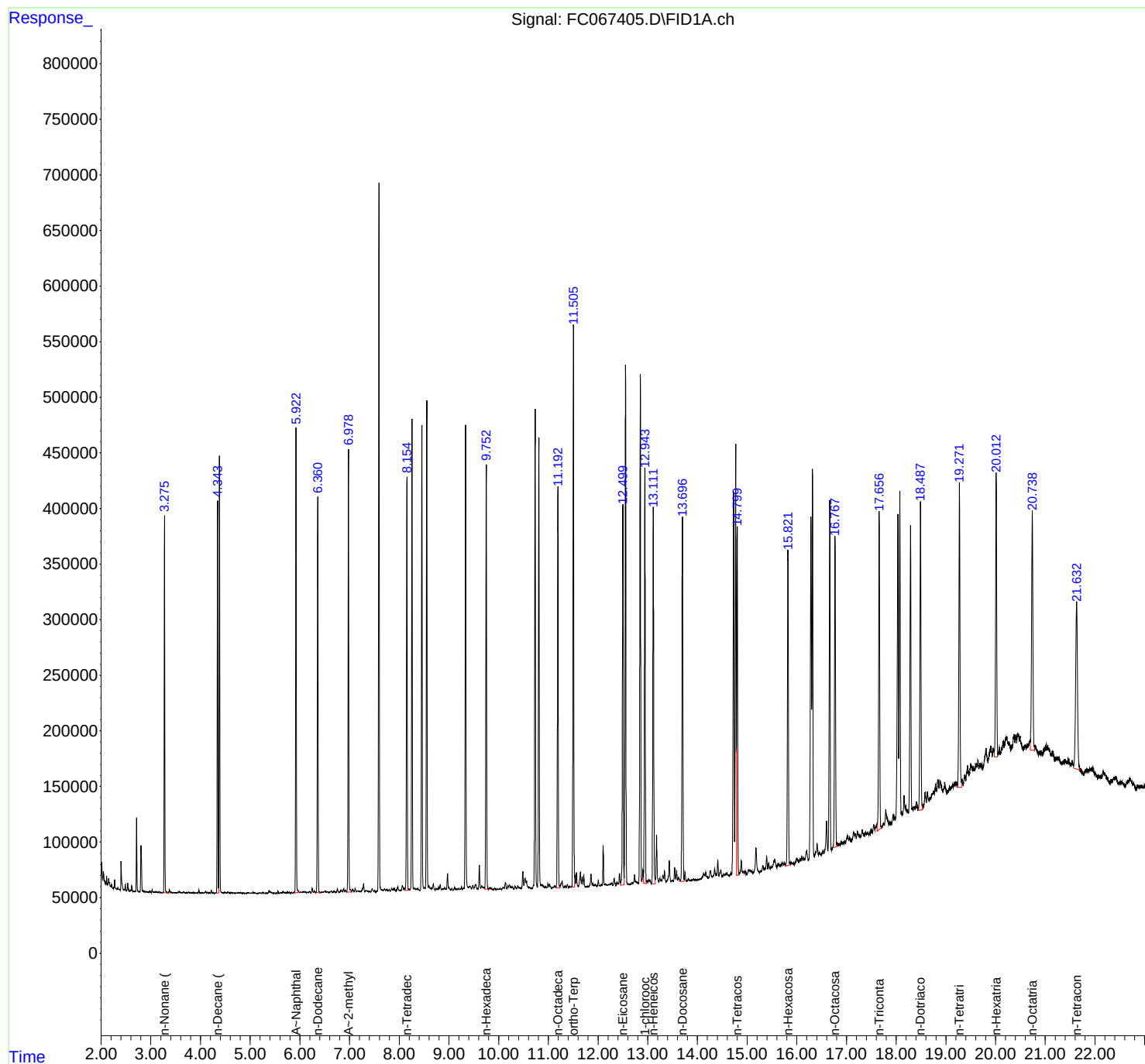
Instrument :
FID_C
ClientSampleId :
OR-02-100924MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:24:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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

Instrument :

FID_C

ClientSampleId :

OR-02-100924MS

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112

Data File : FC067405.D

Signal(s) : FID1A.ch

Acq On : 11 Oct 2024 17:15

Sample : P4376-01MS

Misc :

ALS Vial : 16 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.224	3.204	3.238	BV	107	146	0.00%	0.000%
2	3.275	3.238	3.348	PV	334422	2845352	39.70%	1.146%
3	3.374	3.348	3.441	VV	2767	40511	0.57%	0.016%
4	3.452	3.441	3.464	VV	210	2623	0.04%	0.001%
5	3.472	3.464	3.504	VV	219	2787	0.04%	0.001%
6	3.512	3.504	3.524	PV	136	833	0.01%	0.000%
7	3.566	3.524	3.623	VV	1123	24552	0.34%	0.010%
8	3.665	3.623	3.704	VV	1084	19004	0.27%	0.008%
9	3.718	3.704	3.748	VV	123	1788	0.02%	0.001%
10	3.764	3.748	3.800	PV	1150	13400	0.19%	0.005%
11	3.814	3.800	3.834	VV	295	2982	0.04%	0.001%
12	3.850	3.834	3.872	VV	455	6901	0.10%	0.003%
13	3.881	3.872	3.906	VV	210	2889	0.04%	0.001%
14	3.967	3.906	4.012	PV	2675	35397	0.49%	0.014%
15	4.035	4.012	4.065	VV	328	6948	0.10%	0.003%
16	4.104	4.065	4.126	VV	1715	25274	0.35%	0.010%
17	4.138	4.126	4.198	VV	554	13001	0.18%	0.005%
18	4.218	4.198	4.242	VV	2688	26948	0.38%	0.011%
19	4.256	4.242	4.271	VV	318	3607	0.05%	0.001%
20	4.296	4.271	4.314	VV	155	2992	0.04%	0.001%
21	4.343	4.314	4.363	VV	350914	3230025	45.07%	1.300%
22	4.382	4.363	4.471	VV	390762	3454447	48.20%	1.391%
23	4.489	4.471	4.523	VV	873	13423	0.19%	0.005%
24	4.552	4.523	4.581	VV	1207	20136	0.28%	0.008%
25	4.597	4.581	4.610	VV	645	6572	0.09%	0.003%
26	4.623	4.610	4.635	VV	392	4141	0.06%	0.002%
27	4.649	4.635	4.656	VV	216	2242	0.03%	0.001%
28	4.673	4.656	4.701	VV	362	6336	0.09%	0.003%
29	4.718	4.701	4.732	VV	450	5045	0.07%	0.002%
30	4.751	4.732	4.781	VV	399	8328	0.12%	0.003%
31	4.811	4.781	4.834	VV	699	12035	0.17%	0.005%
32	4.841	4.834	4.853	VV	125	1100	0.02%	0.000%
33	4.870	4.853	4.885	VV	303	3112	0.04%	0.001%
34	4.898	4.885	4.922	VV	177	2600	0.04%	0.001%
35	4.956	4.922	4.969	PV	549	7705	0.11%	0.003%
36	4.981	4.969	5.009	VV	644	9127	0.13%	0.004%

37	5.032	5.009	5.043	VV	421	6062	0.08%	0.002%
38	5.057	5.043	5.070	VV	720	7751		
39	5.082	5.070	5.097	VV	458	5692		
40	5.108	5.097	5.127	VV	269	3022		
41	5.144	5.127	5.157	PV	184	1939		
42	5.197	5.157	5.224	VV	613	11403		
43	5.245	5.224	5.255	VV	587	7221	0.10%	0.003%
44	5.268	5.255	5.288	VV	653	7685	0.11%	0.003%
45	5.295	5.288	5.309	VV	231	2680	0.04%	0.001%
46	5.325	5.309	5.345	VV	396	4575	0.06%	0.002%
47	5.378	5.345	5.391	PV	2654	29029	0.41%	0.012%
48	5.402	5.391	5.476	VV	1399	31424	0.44%	0.013%
49	5.492	5.476	5.527	VV	182	3192	0.04%	0.001%
50	5.561	5.527	5.582	VV	1470	18255	0.25%	0.007%
51	5.658	5.582	5.698	VV	1311	40367	0.56%	0.016%
52	5.710	5.698	5.734	VV	541	8287	0.12%	0.003%
53	5.749	5.734	5.764	VV	1295	13208	0.18%	0.005%
54	5.787	5.764	5.811	VV	673	12418	0.17%	0.005%
55	5.832	5.811	5.851	VV	623	7759	0.11%	0.003%
56	5.884	5.851	5.894	PV	783	13589	0.19%	0.005%
57	5.922	5.894	6.001	VV	413816	3970050	55.39%	1.598%
58	6.018	6.001	6.040	VV	1196	18386	0.26%	0.007%
59	6.064	6.040	6.092	VV	1131	29109	0.41%	0.012%
60	6.103	6.092	6.126	VV	948	14773	0.21%	0.006%
61	6.142	6.126	6.156	VV	869	10671	0.15%	0.004%
62	6.196	6.156	6.223	VV	1255	26884	0.38%	0.011%
63	6.249	6.223	6.270	VV	4092	48467	0.68%	0.020%
64	6.291	6.270	6.321	VV	1367	23287	0.32%	0.009%
65	6.360	6.321	6.414	VV	357116	3561102	49.69%	1.434%
66	6.446	6.414	6.458	VV	544	10145	0.14%	0.004%
67	6.478	6.458	6.488	VV	564	8554	0.12%	0.003%
68	6.508	6.488	6.537	VV	1723	26060	0.36%	0.010%
69	6.554	6.537	6.590	VV	998	15572	0.22%	0.006%
70	6.635	6.590	6.654	VV	1569	24394	0.34%	0.010%
71	6.693	6.654	6.726	VV	895	23584	0.33%	0.009%
72	6.756	6.726	6.784	VV	3643	45396	0.63%	0.018%
73	6.826	6.784	6.844	VV	2451	37963	0.53%	0.015%
74	6.883	6.844	6.900	VV	3815	58971	0.82%	0.024%
75	6.917	6.900	6.940	VV	2076	26809	0.37%	0.011%
76	6.978	6.940	7.041	VV	398970	3941010	54.99%	1.587%
77	7.060	7.041	7.093	VV	2818	48832	0.68%	0.020%
78	7.112	7.093	7.141	VV	3675	49538	0.69%	0.020%
79	7.162	7.141	7.182	VV	1393	25388	0.35%	0.010%
80	7.191	7.182	7.221	VV	925	15911	0.22%	0.006%
81	7.282	7.221	7.307	VV	7587	137263	1.92%	0.055%
82	7.323	7.307	7.388	VV	1145	41611	0.58%	0.017%
83	7.408	7.388	7.427	VV	480	9045	0.13%	0.004%
84	7.454	7.427	7.489	VV	3003	53601	0.75%	0.022%
85	7.507	7.489	7.527	VV	1093	13725	0.19%	0.006%
86	7.647	7.634	7.672	VV	2005	37129	0.52%	0.015%
87	7.705	7.672	7.724	VV	2699	56494	0.79%	0.023%
88	7.737	7.724	7.776	VV	1812	45501	0.63%	0.018%
89	7.801	7.776	7.821	VV	1940	30087	0.42%	0.012%

Instrument :

FID_C

ClientSampleId :

OR-02-100924MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

90	7.848	7.821	7.867	VV	2993	47073	0.66%	0.019%
91	7.883	7.867	7.893	VV	2852	33207		
92	7.905	7.893	7.927	VV	3196	39608		
93	7.973	7.927	8.008	VV	4710	91726		
94	8.029	8.008	8.038	VV	1117	17465		
95	8.063	8.038	8.088	VV	5215	99902		
96	8.101	8.088	8.115	VV	3282	37875	0.53%	0.015%
97	8.154	8.115	8.211	VV	372281	4048483	56.49%	1.630%
98	8.257	8.211	8.290	VV	424884	4238094	59.13%	1.706%
99	8.309	8.290	8.326	VV	2735	49207	0.69%	0.020%
100	8.341	8.326	8.355	VV	2170	32486	0.45%	0.013%
101	8.370	8.355	8.411	VV	2554	51307	0.72%	0.021%
102	8.506	8.495	8.521	VV	3026	43977	0.61%	0.018%
103	8.554	8.521	8.588	VV	441216	4469648	62.36%	1.799%
104	8.600	8.588	8.624	VV	4099	71318	1.00%	0.029%
105	8.641	8.624	8.658	VV	2595	44110	0.62%	0.018%
106	8.687	8.658	8.714	VV	6315	107731	1.50%	0.043%
107	8.740	8.714	8.756	VV	2458	38394	0.54%	0.015%
108	8.792	8.756	8.808	VV	2762	55333	0.77%	0.022%
109	8.824	8.808	8.850	VV	5230	75348	1.05%	0.030%
110	8.868	8.850	8.882	VV	1751	28142	0.39%	0.011%
111	8.913	8.882	8.938	VV	2056	51715	0.72%	0.021%
112	8.973	8.938	9.037	VV	14883	250566	3.50%	0.101%
113	9.058	9.037	9.082	VV	1895	29291	0.41%	0.012%
114	9.115	9.082	9.133	VV	2759	42698	0.60%	0.017%
115	9.148	9.133	9.162	VV	1739	19752	0.28%	0.008%
116	9.173	9.162	9.183	VV	1059	11329	0.16%	0.005%
117	9.200	9.183	9.219	VV	2060	27873	0.39%	0.011%
118	9.253	9.219	9.279	VV	2489	50574	0.71%	0.020%
119	9.336	9.279	9.398	VV	422126	4548789	63.47%	1.831%
120	9.415	9.398	9.424	VV	3610	49045	0.68%	0.020%
121	9.430	9.424	9.451	VV	3184	40110	0.56%	0.016%
122	9.481	9.451	9.501	VV	4341	80352	1.12%	0.032%
123	9.540	9.501	9.568	VV	4777	122955	1.72%	0.050%
124	9.613	9.568	9.640	VV	22387	274389	3.83%	0.110%
125	9.662	9.640	9.684	VV	3554	69386	0.97%	0.028%
126	9.704	9.684	9.719	VV	2478	43079	0.60%	0.017%
127	9.752	9.719	9.799	VV	381180	4247193	59.26%	1.710%
128	9.819	9.799	9.841	VV	1433	28678	0.40%	0.012%
129	9.851	9.841	9.893	VV	1397	19562	0.27%	0.008%
130	9.919	9.893	9.948	PV	1151	17291	0.24%	0.007%
131	9.959	9.948	9.970	VV	249	2529	0.04%	0.001%
132	9.987	9.970	10.003	VV	305	4598	0.06%	0.002%
133	10.021	10.003	10.042	VV	890	11235	0.16%	0.005%
134	10.091	10.042	10.111	VV	1709	40537	0.57%	0.016%
135	10.138	10.111	10.163	VV	6212	99569	1.39%	0.040%
136	10.188	10.163	10.199	VV	2773	41141	0.57%	0.017%
137	10.216	10.199	10.240	VV	3886	68649	0.96%	0.028%
138	10.253	10.240	10.268	VV	2589	31864	0.44%	0.013%
139	10.282	10.268	10.307	VV	2252	29006	0.40%	0.012%
140	10.331	10.307	10.364	VV	2732	44190	0.62%	0.018%
141	10.386	10.364	10.406	VV	2697	42077	0.59%	0.017%

Instrument :

FID_C

ClientSampleId :

OR-02-100924MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

rterres							OR-02-100924MS	
142	10.417	10.406	10.449	VV	1237	25165	0.35%	0.010%
143	10.488	10.449	10.509	VV	15667	221191		
144	10.534	10.509	10.550	VV	9699	178580		
145	10.560	10.550	10.624	VV	7388	135775		
146	10.633	10.624	10.651	VV	1242	13177		
147	10.736	10.651	10.781	VV	428060	4952572	69.77%	1.811%
148	10.811	10.781	10.854	VV	406025	4498651	62.77%	1.811%
149	10.879	10.854	10.922	VV	3701	99514	1.39%	0.040%
150	10.941	10.922	10.965	VV	1806	30887	0.43%	0.012%
151	10.994	10.965	11.009	VV	4385	55487	0.77%	0.022%
152	11.024	11.009	11.065	VV	3610	61186	0.85%	0.025%
153	11.093	11.065	11.104	PV	946	15571	0.22%	0.006%
154	11.123	11.104	11.150	VV	2181	39207	0.55%	0.016%
155	11.193	11.150	11.234	VV	360501	4239776	59.16%	1.707%
156	11.278	11.234	11.310	VV	6108	146977	2.05%	0.059%
157	11.335	11.310	11.361	VV	1672	29241	0.41%	0.012%
158	11.384	11.361	11.407	VV	2787	36042	0.50%	0.015%
159	11.429	11.407	11.457	VV	1113	22006	0.31%	0.009%
160	11.506	11.457	11.549	VV	497914	5654839	78.90%	2.277%
161	11.565	11.549	11.606	VV	13299	180260	2.52%	0.073%
162	11.647	11.606	11.666	VV	13979	232056	3.24%	0.093%
163	11.682	11.666	11.697	VV	9105	112917	1.58%	0.045%
164	11.713	11.697	11.764	VV	10588	131628	1.84%	0.053%
165	11.791	11.764	11.811	VV	833	11815	0.16%	0.005%
166	11.859	11.811	11.881	PV	11341	172064	2.40%	0.069%
167	11.893	11.881	11.912	VV	3187	40648	0.57%	0.016%
168	11.941	11.912	11.981	VV	1969	53770	0.75%	0.022%
169	12.005	11.981	12.026	VV	5778	68422	0.95%	0.028%
170	12.035	12.026	12.051	VV	1046	12627	0.18%	0.005%
171	12.066	12.051	12.080	VV	1975	24357	0.34%	0.010%
172	12.105	12.080	12.133	VV	36491	401021	5.60%	0.161%
173	12.149	12.133	12.193	VV	1942	53034	0.74%	0.021%
174	12.275	12.193	12.300	VV	2881	98419	1.37%	0.040%
175	12.324	12.300	12.364	VV	6829	105839	1.48%	0.043%
176	12.383	12.364	12.409	PV	3426	52601	0.73%	0.021%
177	12.434	12.409	12.453	VV	10828	149407	2.08%	0.060%
178	12.500	12.453	12.524	VV	341049	4317526	60.24%	1.738%
179	12.553	12.524	12.595	VV	461451	5357311	74.75%	2.157%
180	12.609	12.595	12.628	VV	1392	18093	0.25%	0.007%
181	12.646	12.628	12.661	VV	1247	15030	0.21%	0.006%
182	12.681	12.661	12.698	VV	2640	34485	0.48%	0.014%
183	12.733	12.698	12.753	VV	8879	139116	1.94%	0.056%
184	12.762	12.753	12.811	VV	2816	74874	1.04%	0.030%
185	12.850	12.811	12.879	VV	461265	5407309	75.45%	2.177%
186	12.901	12.879	12.913	VV	13050	166492	2.32%	0.067%
187	12.943	12.913	12.973	VV	371290	4480856	62.52%	1.804%
188	12.985	12.973	13.001	VV	3377	44598	0.62%	0.018%
189	13.020	13.001	13.035	VV	4390	64829	0.90%	0.026%
190	13.046	13.035	13.073	VV	3233	43766	0.61%	0.018%
191	13.111	13.073	13.151	PV	337125	4349661	60.69%	1.751%
192	13.177	13.151	13.222	VV	43668	582196	8.12%	0.234%
193	13.242	13.222	13.260	VV	4592	67857	0.95%	0.027%
194	13.273	13.260	13.284	VV	2574	33278	0.46%	0.013%

195	13.305	13.284	13.320	VV	7125	108505	1.51%	0.044%
196	13.336	13.320	13.371	VV	10874	153831		
197	13.434	13.371	13.468	VV	19664	338430		
198	13.498	13.468	13.515	VV	1823	38543		
199	13.541	13.515	13.562	VV	13027	174752		
200	13.581	13.562	13.601	VV	10075	129277		
201	13.620	13.601	13.648	VV	3853	67419	0.94%	0.027%
202	13.697	13.648	13.731	VV	326151	4158026	58.02%	1.674%
203	13.749	13.731	13.791	VV	8274	101722	1.42%	0.041%
204	13.821	13.791	13.851	VV	1652	26778	0.37%	0.011%
205	13.864	13.851	13.873	VV	493	3788	0.05%	0.002%
206	13.919	13.873	13.954	PV	1224	30508	0.43%	0.012%
207	13.961	13.954	13.978	VV	640	4891	0.07%	0.002%
208	14.020	13.978	14.034	VV	558	10590	0.15%	0.004%
209	14.054	14.034	14.067	PV	1018	11459	0.16%	0.005%
210	14.125	14.067	14.150	VV	5827	143108	2.00%	0.058%
211	14.167	14.150	14.214	VV	6226	114194	1.59%	0.046%
212	14.259	14.214	14.296	VV	7044	158892	2.22%	0.064%
213	14.345	14.296	14.364	VV	8286	155640	2.17%	0.063%
214	14.373	14.364	14.385	VV	3549	36777	0.51%	0.015%
215	14.408	14.385	14.431	VV	15819	200504	2.80%	0.081%
216	14.470	14.431	14.498	VV	6504	138427	1.93%	0.056%
217	14.533	14.498	14.552	VV	2863	55116	0.77%	0.022%
218	14.592	14.552	14.643	VV	3325	98342	1.37%	0.040%
219	14.674	14.643	14.688	VV	2761	44589	0.62%	0.018%
220	14.727	14.688	14.746	VV	345236	4516180	63.01%	1.818%
221	14.770	14.746	14.784	VV	391190	4659150	65.01%	1.876%
222	14.799	14.784	14.839	VV	310172	3785403	52.82%	1.524%
223	14.881	14.839	14.908	VV	12557	205107	2.86%	0.083%
224	14.923	14.908	14.941	VV	2778	46708	0.65%	0.019%
225	14.961	14.941	15.001	VV	2740	47190	0.66%	0.019%
226	15.028	15.001	15.067	PV	3912	102414	1.43%	0.041%
227	15.077	15.067	15.124	VV	2772	46667	0.65%	0.019%
228	15.177	15.124	15.255	VV	22112	445404	6.21%	0.179%
229	15.272	15.255	15.280	PV	783	6420	0.09%	0.003%
230	15.316	15.280	15.337	VV	5178	88715	1.24%	0.036%
231	15.352	15.337	15.368	VV	2714	40651	0.57%	0.016%
232	15.392	15.368	15.414	VV	12818	179075	2.50%	0.072%
233	15.432	15.414	15.458	VV	6190	92842	1.30%	0.037%
234	15.472	15.458	15.487	VV	2592	32924	0.46%	0.013%
235	15.554	15.487	15.598	VV	8545	273696	3.82%	0.110%
236	15.631	15.598	15.661	VV	4057	88256	1.23%	0.036%
237	15.716	15.661	15.735	VV	4026	108529	1.51%	0.044%
238	15.751	15.735	15.771	VV	3639	51645	0.72%	0.021%
239	15.820	15.771	15.854	VV	282692	3992401	55.71%	1.607%
240	15.867	15.854	15.910	VV	2299	49395	0.69%	0.020%
241	15.923	15.910	15.961	VV	1395	22746	0.32%	0.009%
242	15.998	15.961	16.044	PV	4961	122576	1.71%	0.049%
243	16.065	16.044	16.077	VV	3030	43349	0.60%	0.017%
244	16.099	16.077	16.124	VV	3791	84601	1.18%	0.034%
245	16.195	16.124	16.235	VV	8328	253089	3.53%	0.102%
246	16.283	16.235	16.299	PV	309467	4504956	62.86%	1.814%

Instrument :

FID_C

ClientSampleId :

OR-02-100924MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

					rters			
247	16.315	16.299	16.347	VV	344905	4074551	56.85%	1.640%
248	16.408	16.347	16.431	VV	12381	278099		
249	16.457	16.431	16.478	VV	4055	93237		
250	16.527	16.478	16.545	VV	5167	128601		
251	16.597	16.545	16.623	VV	30518	564717		
252	16.662	16.623	16.703	VV	314933	4209607	58.44%	1.744%
253	16.768	16.703	16.804	VV	283956	4332047	60.44%	1.744%
254	16.816	16.804	16.831	VV	7679	107631	1.50%	0.043%
255	16.858	16.831	16.878	VV	6136	154039	2.15%	0.062%
256	16.901	16.878	16.925	VV	7428	182505	2.55%	0.073%
257	16.962	16.925	16.978	VV	7179	185313	2.59%	0.075%
258	17.017	16.978	17.051	VV	10890	378063	5.28%	0.152%
259	17.062	17.051	17.097	VV	8724	192980	2.69%	0.078%
260	17.148	17.097	17.164	VV	12284	372803	5.20%	0.150%
261	17.174	17.164	17.195	VV	11316	170709	2.38%	0.069%
262	17.221	17.195	17.287	VV	11858	481684	6.72%	0.194%
263	17.314	17.287	17.361	VV	12624	398650	5.56%	0.160%
264	17.382	17.361	17.401	VV	9053	188737	2.63%	0.076%
265	17.410	17.401	17.464	VV	8310	281352	3.93%	0.113%
266	17.499	17.464	17.520	VV	8990	270430	3.77%	0.109%
267	17.548	17.520	17.567	VV	14004	311844	4.35%	0.126%
268	17.657	17.567	17.694	VV	290742	4818268	67.23%	1.940%
269	17.706	17.694	17.719	VV	11116	153679	2.14%	0.062%
270	17.744	17.719	17.762	VV	12847	283967	3.96%	0.114%
271	17.790	17.762	17.864	VV	24391	925042	12.91%	0.372%
272	17.934	17.864	17.954	VV	17617	664262	9.27%	0.267%
273	17.970	17.954	17.981	VV	15068	218835	3.05%	0.088%
274	18.034	17.981	18.051	VV	284285	4756625	66.37%	1.915%
275	18.072	18.051	18.101	VV	302710	4160148	58.05%	1.675%
276	18.110	18.101	18.124	VV	17795	227254	3.17%	0.091%
277	18.158	18.124	18.178	VV	31810	705162	9.84%	0.284%
278	18.194	18.178	18.246	VV	22615	751026	10.48%	0.302%
279	18.288	18.246	18.334	VV	271563	4443848	62.00%	1.789%
280	18.364	18.334	18.380	VV	18708	493621	6.89%	0.199%
281	18.409	18.380	18.438	VV	22622	651996	9.10%	0.262%
282	18.488	18.438	18.550	VV	290559	5095729	71.10%	2.052%
283	18.583	18.550	18.607	VV	28406	765919	10.69%	0.308%
284	18.630	18.607	18.652	VV	27147	656316	9.16%	0.264%
285	18.752	18.652	18.770	VV	27437	1682157	23.47%	0.677%
286	18.793	18.770	18.812	VV	33550	738149	10.30%	0.297%
287	18.838	18.812	18.861	VV	35532	925525	12.91%	0.373%
288	18.880	18.861	18.944	VV	34353	1478049	20.62%	0.595%
289	18.976	18.944	19.022	VV	31987	1232984	17.20%	0.496%
290	19.141	19.022	19.154	VV	28087	1996091	27.85%	0.804%
291	19.166	19.154	19.197	VV	29015	711863	9.93%	0.287%
292	19.207	19.197	19.233	VV	29384	596252	8.32%	0.240%
293	19.272	19.233	19.314	VV	297846	5289179	73.80%	2.129%
294	19.320	19.314	19.348	VV	29067	554773	7.74%	0.223%
295	19.381	19.348	19.403	VV	33392	996364	13.90%	0.401%
296	19.432	19.403	19.469	VV	39198	1381666	19.28%	0.556%
297	19.497	19.469	19.568	VV	41750	2194025	30.61%	0.883%
298	19.613	19.568	19.631	VV	40563	1420604	19.82%	0.572%
299	19.645	19.631	19.662	VV	41889	735983	10.27%	0.296%

Instrument :

FID_C

ClientSampleId :

OR-02-100924MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

							Instrument : FID_C	
							ClientSampleId : OR-02-100924MS	
300	19.685	19.662	19.704	VV	40117	959325	13.39%	0.386%
301	19.717	19.704	19.736	VV	38882	687862	Manual IntegrationsAPPROVED	
302	19.808	19.736	19.845	VV	49850	2734919		
303	19.909	19.845	19.931	VV	51087	2382073		
304	19.951	19.931	19.974	VV	47998	1195468		
305	20.012	19.974	20.048	VV	291747	5631905		
306	20.074	20.048	20.094	VV	48522	1249741	17.44%	0.503%
307	20.228	20.094	20.261	VV	55955	5003019	69.81%	2.014%
308	20.274	20.261	20.302	VV	50728	1157784	16.15%	0.466%
309	20.312	20.302	20.338	VV	46357	979204	13.66%	0.394%
310	20.380	20.338	20.403	VV	55224	2032198	28.35%	0.818%
311	20.412	20.403	20.425	VV	55301	687077	9.59%	0.277%
312	20.445	20.425	20.476	VV	56326	1605058	22.40%	0.646%
313	20.492	20.476	20.563	VV	51981	2386301	33.30%	0.961%
314	20.575	20.563	20.581	VV	42544	431500	6.02%	0.174%
315	20.595	20.581	20.614	VV	43739	825333	11.52%	0.332%
316	20.642	20.614	20.651	VV	43466	932999	13.02%	0.376%
317	20.738	20.651	20.787	VV	249434	7167020	100.00%	2.885%
318	20.800	20.787	20.861	VV	39966	1616627	22.56%	0.651%
319	20.884	20.861	20.911	VV	33639	969424	13.53%	0.390%
320	20.921	20.911	20.947	VV	32445	674887	9.42%	0.272%
321	20.958	20.947	20.966	VV	34372	366397	5.11%	0.148%
322	20.988	20.966	20.997	VV	34830	617530	8.62%	0.249%
323	21.021	20.997	21.034	VV	37511	812594	11.34%	0.327%
324	21.050	21.034	21.062	VV	37309	568447	7.93%	0.229%
325	21.068	21.062	21.118	VV	33872	1032887	14.41%	0.416%
326	21.148	21.118	21.199	VV	29905	1277792	17.83%	0.514%
327	21.208	21.199	21.221	VV	23834	300886	4.20%	0.121%
328	21.241	21.221	21.250	VV	23468	389641	5.44%	0.157%
329	21.264	21.250	21.334	VV	23315	1001014	13.97%	0.403%
330	21.349	21.334	21.364	VV	18131	307046	4.28%	0.124%
331	21.386	21.364	21.395	VV	19147	326849	4.56%	0.132%
332	21.407	21.395	21.441	VV	18813	468884	6.54%	0.189%
333	21.457	21.441	21.518	VV	19218	714051	9.96%	0.287%
334	21.542	21.518	21.571	VV	16379	427616	5.97%	0.172%
335	21.631	21.571	21.701	VV	157092	4471113	62.38%	1.800%
336	21.714	21.701	21.728	VV	7004	78635	1.10%	0.032%
337	21.737	21.728	21.775	VV	5573	73660	1.03%	0.030%
338	21.812	21.775	21.820	PV	2403	49019	0.68%	0.020%
339	21.838	21.820	21.854	VV	3324	36032	0.50%	0.015%
Sum of corrected areas:							248386620	

Aliphatic EPH 100224.M Mon Oct 14 04:54:11 2024

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	OR-02-100924MSD	SDG No.:	P4385
Lab Sample ID:	P4376-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 09:55	10/11/24 17:52	PB164070

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	74.2	E	1	1.89	2.11	mg/kg	FC067406.D
Aliphatic C9-C28	Aliphatic C9-C28	70.7		1	1.81	4.20	mg/kg	FC067406.D
Total AliphaticEPH	Total AliphaticEPH	145			3.70	6.31	mg/kg	
Total EPH	Total EPH	145			3.70	6.31	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	Scheideler Excavating Co. Inc.	Date Collected:	
Project:	Robbinsville	Date Received:	
Client Sample ID:	OR-02-100924MSD	SDG No.:	P4385
Lab Sample ID:	P4376-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067406.D	1	10/11/24	10/11/24	PB164070

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	70.7		1.81	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	74.2	E	1.89	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.1		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.7		40 - 140	73%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4376-01MSD	Acq On:	11 Oct 2024 17:52
Client Sample ID:	OR-02-100924MSD	Operator:	YP/AJ
Data file:	FC067406.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	3.175	6.457	18042280	140.566	300	ug/ml
Aliphatic C12-C16	6.458	9.848	28894181	220.638	200	ug/ml
Aliphatic C16-C21	9.849	13.207	38150608	290.171	300	ug/ml
Aliphatic C21-C28	13.208	16.862	45083491	355.482	400	ug/ml
Aliphatic C28-C40	16.863	21.712	111205034	1060	600	ug/ml
Aliphatic EPH	3.175	21.712	241375594	2060		ug/ml
ortho-Terphenyl (SURR)	11.507	11.507	5578238	36.66		ug/ml
1-chlorooctadecane (SURR)	12.944	12.944	4537994	40.09		ug/ml
Aliphatic C9-C28	3.175	16.862	130170560	1010	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\F101124AL\
 Data File : FC067406.D
 Signal(s) : FID1A.ch
 Acq On : 11 Oct 2024 17:52
 Operator : YP/AJ
 Sample : P4376-01MSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :

FID_C

ClientSampleId :

OR-02-100924MSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e

Quant Time: Oct 14 03:24:37 2024

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M

Quant Title : GC Extractables

QLast Update : Tue Oct 01 09:13:32 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)	11.507	5578238	36.660 ug/mlm
Spiked Amount 50.000		Recovery =	73.32%
12) S 1-chlorooctadecane (S...	12.944	4537994	40.091 ug/ml
Spiked Amount 50.000		Recovery =	80.18%
Target Compounds			
1) T n-Nonane (C9)	3.275	2869771	22.640 ug/ml
2) T n-Decane (C10)	4.343	3269885	25.438 ug/ml
3) T A~Naphthalene (C11.7)	5.923	3985518	28.096 ug/mlm
4) T n-Dodecane (C12)	6.360	3596922	27.719 ug/ml
5) T A~2-methylnaphthalene...	6.979	3976262	28.984 ug/ml
6) T n-Tetradecane (C14)	8.155	4044203	31.400 ug/ml
7) T n-Hexadecane (C16)	9.753	4268416	32.065 ug/ml
8) T n-Octadecane (C18)	11.194	4274456	31.522 ug/ml
10) T n-Eicosane (C20)	12.501	4372471	33.488 ug/ml
11) T n-Heneicosane (C21)	13.114	4380537	34.155 ug/ml
13) T n-Docosane (C22)	13.698	4208277	32.958 ug/ml
14) T n-Tetracosane (C24)	14.800	3811494	29.802 ug/ml
15) T n-Hexacosane (C26)	15.822	4059951	32.200 ug/ml
16) T n-Octacosane (C28)	16.771	4128695	32.864 ug/mlm
17) T n-Tricontane (C30)	17.658	4175828	32.415 ug/mlm
18) T n-Dotriacontane (C32)	18.488	4080295	32.661 ug/mlm
19) T n-Tetratriacontane (C34)	19.272	4107535	37.588 ug/mlm
20) T n-Hexatriacontane (C36)	20.012	3957887	41.875 ug/mlm
21) T n-Octatriacontane (C38)	20.738	3958670	45.139 ug/mlm
22) T n-Tetracontane (C40)	21.633	3756333	43.654 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC101124AL\
Data File : FC067406.D
Signal(s) : FID1A.ch
Acq On : 11 Oct 2024 17:52
Operator : YP/AJ
Sample : P4376-01MSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

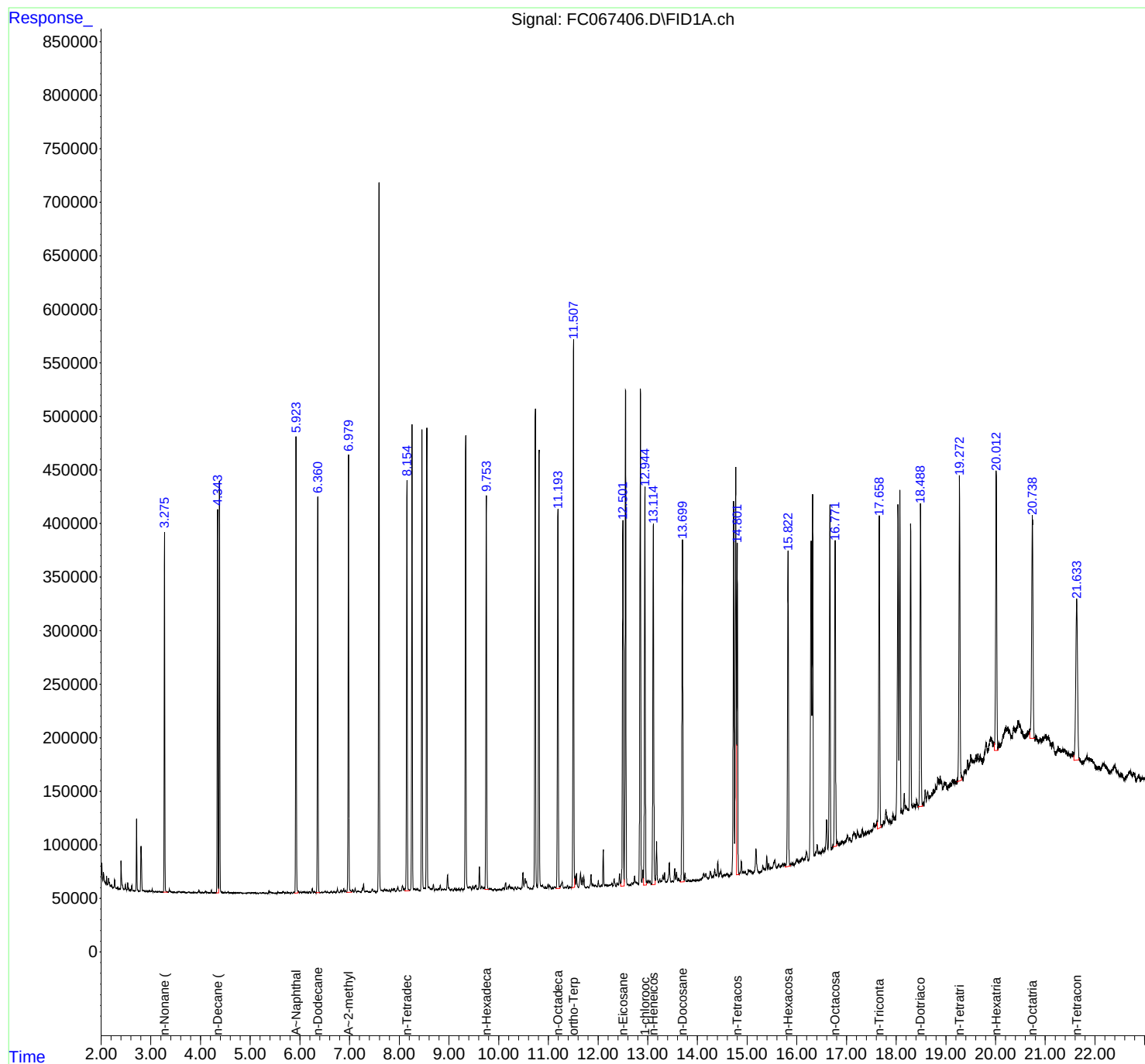
Instrument :
FID_C
ClientSampleId :
OR-02-100924MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Integration File: autoint1.e
Quant Time: Oct 14 03:24:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.M
Quant Title : GC Extractables
QLast Update : Tue Oct 01 09:13:32 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 :

OR-02-100924MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC10112

Data File : FC067406.D

Signal(s) : FID1A.ch

Acq On : 11 Oct 2024 17:52

Sample : P4376-01MSD

Misc :

ALS Vial : 17 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 100224.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	3.204	3.354	BV	334055	2880317	40.22%	1.144%
2	3.374	3.354	3.441	VV	2979	40391	0.56%	0.016%
3	3.453	3.441	3.466	VV	293	3250	0.05%	0.001%
4	3.474	3.466	3.501	VV	299	3159	0.04%	0.001%
5	3.512	3.501	3.528	PV	159	1184	0.02%	0.000%
6	3.566	3.528	3.621	VV	1225	27053	0.38%	0.011%
7	3.665	3.621	3.699	VV	816	17315	0.24%	0.007%
8	3.720	3.699	3.747	VV	212	3619	0.05%	0.001%
9	3.765	3.747	3.801	VV	1053	12399	0.17%	0.005%
10	3.813	3.801	3.831	VV	319	2927	0.04%	0.001%
11	3.852	3.831	3.914	PV	491	10306	0.14%	0.004%
12	3.969	3.914	4.006	VV	2683	35963	0.50%	0.014%
13	4.037	4.006	4.064	VV	394	7695	0.11%	0.003%
14	4.105	4.064	4.174	PV	1745	34780	0.49%	0.014%
15	4.186	4.174	4.197	VV	251	2874	0.04%	0.001%
16	4.218	4.197	4.241	VV	2776	26685	0.37%	0.011%
17	4.256	4.241	4.271	VV	295	3672	0.05%	0.001%
18	4.293	4.271	4.310	VV	302	3656	0.05%	0.001%
19	4.343	4.310	4.363	VV	354837	3272783	45.70%	1.300%
20	4.382	4.363	4.471	VV	384639	3498898	48.86%	1.390%
21	4.489	4.471	4.524	VV	956	14244	0.20%	0.006%
22	4.552	4.524	4.581	VV	1224	20184	0.28%	0.008%
23	4.595	4.581	4.610	VV	664	7044	0.10%	0.003%
24	4.623	4.610	4.654	VV	466	7428	0.10%	0.003%
25	4.673	4.654	4.700	VV	461	8195	0.11%	0.003%
26	4.716	4.700	4.733	VV	551	6460	0.09%	0.003%
27	4.752	4.733	4.776	VV	518	9373	0.13%	0.004%
28	4.811	4.776	4.848	VV	790	14647	0.20%	0.006%
29	4.866	4.848	4.884	VV	309	3895	0.05%	0.002%
30	4.900	4.884	4.920	VV	176	2275	0.03%	0.001%
31	4.959	4.920	4.969	PV	684	8825	0.12%	0.004%
32	4.982	4.969	5.011	VV	661	9533	0.13%	0.004%
33	5.031	5.011	5.044	VV	469	6113	0.09%	0.002%
34	5.058	5.044	5.071	VV	818	7804	0.11%	0.003%
35	5.081	5.071	5.098	VV	541	5924	0.08%	0.002%
36	5.108	5.098	5.126	VV	306	3158	0.04%	0.001%

					retention			
37	5.138	5.126	5.157	VV	121	1381	0.02%	0.001%
38	5.196	5.157	5.221	VV	681	11432		
39	5.244	5.221	5.261	VV	613	9067		
40	5.268	5.261	5.285	VV	607	5717		
41	5.294	5.285	5.314	VV	230	3035		
42	5.326	5.314	5.345	VV	348	3484		
43	5.378	5.345	5.392	PV	2744	28706	0.40%	0.011%
44	5.402	5.392	5.516	VV	1430	32977	0.46%	0.013%
45	5.526	5.516	5.537	VV	111	799	0.01%	0.000%
46	5.560	5.537	5.582	PV	1501	17309	0.24%	0.007%
47	5.595	5.582	5.604	VV	391	3690	0.05%	0.001%
48	5.659	5.604	5.668	VV	1287	23127	0.32%	0.009%
49	5.675	5.668	5.698	VV	1123	13455	0.19%	0.005%
50	5.711	5.698	5.730	VV	493	6750	0.09%	0.003%
51	5.748	5.730	5.765	VV	1279	13946	0.19%	0.006%
52	5.787	5.765	5.811	VV	689	11227	0.16%	0.004%
53	5.830	5.811	5.852	PV	672	8169	0.11%	0.003%
54	5.883	5.852	5.894	VV	764	12530	0.17%	0.005%
55	5.923	5.894	6.001	VV	424579	4022572	56.17%	1.598%
56	6.018	6.001	6.040	VV	1196	18909	0.26%	0.008%
57	6.062	6.040	6.091	VV	1080	27424	0.38%	0.011%
58	6.101	6.091	6.126	VV	958	15149	0.21%	0.006%
59	6.142	6.126	6.161	VV	837	11845	0.17%	0.005%
60	6.196	6.161	6.222	VV	1311	25447	0.36%	0.010%
61	6.249	6.222	6.270	VV	4116	48309	0.67%	0.019%
62	6.291	6.270	6.322	VV	1414	24423	0.34%	0.010%
63	6.360	6.322	6.414	VV	370056	3608087	50.39%	1.434%
64	6.445	6.414	6.458	VV	500	9286	0.13%	0.004%
65	6.476	6.458	6.489	VV	651	9167	0.13%	0.004%
66	6.508	6.489	6.538	VV	1739	25827	0.36%	0.010%
67	6.553	6.538	6.598	VV	984	16184	0.23%	0.006%
68	6.635	6.598	6.655	VV	1534	22879	0.32%	0.009%
69	6.678	6.655	6.727	VV	964	24454	0.34%	0.010%
70	6.756	6.727	6.785	VV	3684	46668	0.65%	0.019%
71	6.794	6.785	6.804	VV	320	3369	0.05%	0.001%
72	6.827	6.804	6.845	VV	2503	34426	0.48%	0.014%
73	6.883	6.845	6.901	VV	3873	61024	0.85%	0.024%
74	6.917	6.901	6.940	VV	2200	27383	0.38%	0.011%
75	6.979	6.940	7.041	VV	404613	3994993	55.79%	1.587%
76	7.061	7.041	7.094	VV	2916	49301	0.69%	0.020%
77	7.113	7.094	7.141	VV	3830	50971	0.71%	0.020%
78	7.162	7.141	7.221	VV	1419	42099	0.59%	0.017%
79	7.282	7.221	7.307	VV	7889	138408	1.93%	0.055%
80	7.332	7.307	7.389	VV	1148	42623	0.60%	0.017%
81	7.406	7.389	7.426	VV	573	9361	0.13%	0.004%
82	7.455	7.426	7.490	VV	3111	56007	0.78%	0.022%
83	7.507	7.490	7.528	VV	1061	14036	0.20%	0.006%
84	7.706	7.672	7.725	VV	2832	59699	0.83%	0.024%
85	7.738	7.725	7.778	VV	1913	48308	0.67%	0.019%
86	7.801	7.778	7.822	VV	1925	31462	0.44%	0.013%
87	7.849	7.822	7.868	VV	3124	49755	0.69%	0.020%
88	7.885	7.868	7.894	VV	2963	34795	0.49%	0.014%
89	7.904	7.894	7.928	VV	3343	40775	0.57%	0.016%

Instrument :

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90	7.973	7.928	8.008	VV	4837	94526	1.32%	0.038%
91	8.064	8.008	8.089	VV	5251	123173		
92	8.101	8.089	8.115	VV	3318	39654		
93	8.155	8.115	8.211	VV	382676	4104723	57.17%	0.017%
94	8.258	8.211	8.289	VV	433718	4289144	59.17%	0.017%
95	8.310	8.289	8.327	VV	2902	53356		
96	8.342	8.327	8.356	VV	2369	34179	0.48%	0.014%
97	8.372	8.356	8.413	VV	2633	52332	0.73%	0.021%
98	8.508	8.495	8.522	VV	3136	47726	0.67%	0.019%
99	8.555	8.522	8.587	VV	433935	4523435	63.17%	1.797%
100	8.600	8.587	8.627	VV	4309	77773	1.09%	0.031%
101	8.642	8.627	8.657	VV	2611	42208	0.59%	0.017%
102	8.687	8.657	8.711	VV	6410	109016	1.52%	0.043%
103	8.741	8.711	8.757	VV	2427	43931	0.61%	0.017%
104	8.769	8.757	8.778	VV	1562	18078	0.25%	0.007%
105	8.793	8.778	8.807	VV	2796	37881	0.53%	0.015%
106	8.825	8.807	8.851	VV	5495	79798	1.11%	0.032%
107	8.870	8.851	8.884	VV	1894	30889	0.43%	0.012%
108	8.913	8.884	8.944	VV	2080	58240	0.81%	0.023%
109	8.973	8.944	9.038	VV	15080	253739	3.54%	0.101%
110	9.059	9.038	9.083	VV	2036	31868	0.45%	0.013%
111	9.116	9.083	9.134	VV	2835	44438	0.62%	0.018%
112	9.149	9.134	9.183	VV	1811	33175	0.46%	0.013%
113	9.200	9.183	9.219	VV	2205	29865	0.42%	0.012%
114	9.254	9.219	9.278	VV	2756	52081	0.73%	0.021%
115	9.337	9.278	9.399	VV	428543	4610588	64.39%	1.832%
116	9.416	9.399	9.451	VV	3714	92566	1.29%	0.037%
117	9.481	9.451	9.501	VV	4525	83331	1.16%	0.033%
118	9.536	9.501	9.568	VV	4959	127805	1.78%	0.051%
119	9.614	9.568	9.641	VV	22361	282757	3.95%	0.112%
120	9.664	9.641	9.691	VV	3690	80259	1.12%	0.032%
121	9.706	9.691	9.720	VV	2623	39015	0.54%	0.016%
122	9.753	9.720	9.800	VV	369533	4306701	60.14%	1.711%
123	9.823	9.800	9.841	VV	1619	31957	0.45%	0.013%
124	9.853	9.841	9.892	VV	1517	23278	0.33%	0.009%
125	9.921	9.892	9.950	PV	1348	21628	0.30%	0.009%
126	9.960	9.950	9.970	VV	333	3040	0.04%	0.001%
127	9.989	9.970	10.008	VV	502	7073	0.10%	0.003%
128	10.023	10.008	10.042	VV	906	11886	0.17%	0.005%
129	10.093	10.042	10.112	VV	1765	44612	0.62%	0.018%
130	10.139	10.112	10.165	VV	6703	103047	1.44%	0.041%
131	10.189	10.165	10.200	VV	3039	42651	0.60%	0.017%
132	10.218	10.200	10.241	VV	3994	72356	1.01%	0.029%
133	10.255	10.241	10.269	VV	2649	32626	0.46%	0.013%
134	10.283	10.269	10.308	VV	2400	29849	0.42%	0.012%
135	10.332	10.308	10.365	VV	2861	44821	0.63%	0.018%
136	10.385	10.365	10.410	VV	2764	44892	0.63%	0.018%
137	10.420	10.410	10.446	VV	1211	21420	0.30%	0.009%
138	10.489	10.446	10.510	VV	15652	227687	3.18%	0.090%
139	10.533	10.510	10.550	VV	10181	178421	2.49%	0.071%
140	10.560	10.550	10.623	VV	7558	139182	1.94%	0.055%
141	10.634	10.623	10.651	VV	1122	13063	0.18%	0.005%

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				rters				
142	10.738	10.651	10.780	VV	444784	5000605	69.83%	1.987%
143	10.812	10.780	10.852	VV	405322	4543572	63.21%	1.987%
144	10.880	10.852	10.924	VV	3391	101698	0.33%	0.005%
145	10.942	10.924	10.964	VV	1803	26998	0.67%	0.005%
146	10.994	10.964	11.010	VV	4272	55714	0.67%	0.005%
147	11.025	11.010	11.068	VV	3510	58276	0.60%	0.005%
148	11.095	11.068	11.104	PV	798	13286	0.19%	0.005%
149	11.125	11.104	11.152	VV	1960	36891	0.52%	0.015%
150	11.194	11.152	11.238	VV	353800	4290910	59.92%	1.705%
151	11.280	11.238	11.314	VV	6086	144784	2.02%	0.058%
152	11.336	11.314	11.361	VV	1620	27147	0.38%	0.011%
153	11.385	11.361	11.408	VV	2908	36417	0.51%	0.014%
154	11.428	11.408	11.448	VV	1119	17138	0.24%	0.007%
155	11.507	11.448	11.551	VV	515477	5721942	79.91%	2.273%
156	11.567	11.551	11.606	VV	13591	183017	2.56%	0.073%
157	11.649	11.606	11.667	VV	14185	239996	3.35%	0.095%
158	11.683	11.667	11.698	VV	9461	115878	1.62%	0.046%
159	11.715	11.698	11.767	VV	10650	140610	1.96%	0.056%
160	11.792	11.767	11.812	PV	977	14954	0.21%	0.006%
161	11.860	11.812	11.882	VV	12148	176853	2.47%	0.070%
162	11.895	11.882	11.914	VV	3385	45836	0.64%	0.018%
163	11.940	11.914	11.982	VV	1997	58449	0.82%	0.023%
164	12.006	11.982	12.047	VV	6086	83899	1.17%	0.033%
165	12.067	12.047	12.082	VV	1997	27577	0.39%	0.011%
166	12.106	12.082	12.133	VV	35129	382706	5.34%	0.152%
167	12.150	12.133	12.165	VV	1947	31486	0.44%	0.013%
168	12.178	12.165	12.197	VV	1609	25858	0.36%	0.010%
169	12.213	12.197	12.224	VV	1542	20821	0.29%	0.008%
170	12.276	12.224	12.301	VV	2826	79068	1.10%	0.031%
171	12.325	12.301	12.363	VV	7134	107888	1.51%	0.043%
172	12.384	12.363	12.411	VV	3428	54890	0.77%	0.022%
173	12.435	12.411	12.455	VV	11492	152487	2.13%	0.061%
174	12.501	12.455	12.526	VV	341048	4373999	61.08%	1.738%
175	12.554	12.526	12.595	VV	465729	5413964	75.61%	2.151%
176	12.609	12.595	12.630	VV	1497	20558	0.29%	0.008%
177	12.646	12.630	12.663	VV	1227	15955	0.22%	0.006%
178	12.683	12.663	12.701	VV	2826	37212	0.52%	0.015%
179	12.734	12.701	12.779	VV	8651	180018	2.51%	0.072%
180	12.788	12.779	12.811	VV	2556	36557	0.51%	0.015%
181	12.852	12.811	12.880	VV	464006	5467541	76.35%	2.172%
182	12.903	12.880	12.914	VV	13958	170071	2.38%	0.068%
183	12.944	12.914	12.974	VV	370777	4540108	63.40%	1.804%
184	12.985	12.974	13.002	VV	3680	45504	0.64%	0.018%
185	13.020	13.002	13.034	VV	4531	62354	0.87%	0.025%
186	13.048	13.034	13.074	VV	3368	48341	0.68%	0.019%
187	13.114	13.074	13.152	PV	338296	4379581	61.16%	1.740%
188	13.177	13.152	13.224	VV	39908	541712	7.56%	0.215%
189	13.244	13.224	13.261	VV	4964	66082	0.92%	0.026%
190	13.274	13.261	13.288	VV	2775	39461	0.55%	0.016%
191	13.306	13.288	13.321	VV	7288	107494	1.50%	0.043%
192	13.337	13.321	13.372	VV	10132	141982	1.98%	0.056%
193	13.435	13.372	13.471	VV	18696	345976	4.83%	0.137%
194	13.500	13.471	13.517	VV	1877	40131	0.56%	0.016%

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195	13.542	13.517	13.563	VV	13238	175718	2.45%	0.070%
196	13.581	13.563	13.601	VV	9917	128266		
197	13.622	13.601	13.652	VV	3958	72190		
198	13.698	13.652	13.733	VV	320034	4214305	58	
199	13.751	13.733	13.787	VV	7967	103685		
200	13.823	13.787	13.846	VV	1778	31026		
201	13.918	13.846	13.954	PV	1145	32234	0.45%	0.013%
202	13.964	13.954	13.980	VV	582	5106	0.07%	0.002%
203	13.994	13.980	14.004	VV	439	3884	0.05%	0.002%
204	14.019	14.004	14.031	VV	570	4913	0.07%	0.002%
205	14.054	14.031	14.068	PV	929	9310	0.13%	0.004%
206	14.128	14.068	14.151	VV	5830	138381	1.93%	0.055%
207	14.168	14.151	14.214	VV	5808	107765	1.50%	0.043%
208	14.260	14.214	14.301	VV	6781	158802	2.22%	0.063%
209	14.348	14.301	14.387	VV	8447	192356	2.69%	0.076%
210	14.410	14.387	14.432	VV	14970	200938	2.81%	0.080%
211	14.471	14.432	14.497	VV	6467	136530	1.91%	0.054%
212	14.536	14.497	14.555	VV	2614	55465	0.77%	0.022%
213	14.593	14.555	14.644	VV	3331	95687	1.34%	0.038%
214	14.675	14.644	14.690	VV	2953	44061	0.62%	0.018%
215	14.729	14.690	14.748	VV	349908	4576907	63.92%	1.819%
216	14.772	14.748	14.786	VV	376376	4712684	65.81%	1.872%
217	14.800	14.786	14.844	VV	311955	3842668	53.66%	1.527%
218	14.883	14.844	14.908	VV	12663	199171	2.78%	0.079%
219	14.925	14.908	14.942	VV	3078	50551	0.71%	0.020%
220	14.959	14.942	15.004	VV	2622	45952	0.64%	0.018%
221	15.028	15.004	15.058	VV	3933	79719	1.11%	0.032%
222	15.061	15.058	15.069	VV	3026	17853	0.25%	0.007%
223	15.081	15.069	15.116	VV	2479	42771	0.60%	0.017%
224	15.177	15.116	15.257	VV	22518	458981	6.41%	0.182%
225	15.315	15.257	15.337	PV	5983	106059	1.48%	0.042%
226	15.352	15.337	15.368	VV	2679	43078	0.60%	0.017%
227	15.394	15.368	15.415	VV	13578	184539	2.58%	0.073%
228	15.432	15.415	15.458	VV	6860	96476	1.35%	0.038%
229	15.476	15.458	15.488	VV	2640	35869	0.50%	0.014%
230	15.555	15.488	15.598	VV	8713	273747	3.82%	0.109%
231	15.635	15.598	15.662	VV	3872	89423	1.25%	0.036%
232	15.716	15.662	15.735	VV	3620	97660	1.36%	0.039%
233	15.753	15.735	15.771	VV	3604	52396	0.73%	0.021%
234	15.822	15.771	15.868	VV	292102	4055142	56.63%	1.611%
235	15.896	15.868	15.909	VV	1491	31321	0.44%	0.012%
236	15.920	15.909	15.946	VV	1517	19190	0.27%	0.008%
237	16.003	15.946	16.041	PV	4073	120352	1.68%	0.048%
238	16.062	16.041	16.080	VV	3212	44083	0.62%	0.018%
239	16.111	16.080	16.134	VV	4045	97108	1.36%	0.039%
240	16.146	16.134	16.158	VV	2684	33691	0.47%	0.013%
241	16.194	16.158	16.236	VV	8789	208279	2.91%	0.083%
242	16.286	16.236	16.301	PV	294982	4607786	64.35%	1.831%
243	16.317	16.301	16.350	VV	342533	4108855	57.38%	1.633%
244	16.408	16.350	16.434	VV	12160	302165	4.22%	0.120%
245	16.454	16.434	16.488	VV	4544	115168	1.61%	0.046%
246	16.526	16.488	16.545	VV	5584	130978	1.83%	0.052%

Instrument :

FID_C

ClientSampleId :

OR-02-100924MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

					rters			
247	16.598	16.545	16.625	VV	32075	602027	8.41%	0.239%
248	16.664	16.625	16.704	VV	323923	4277528	59.41%	0.239%
249	16.770	16.704	16.803	VV	292121	4396755	61.41%	0.239%
250	16.814	16.803	16.838	VV	8514	143580	2.41%	0.239%
251	16.849	16.838	16.878	VV	5956	131231	1.14%	0.032%
252	16.930	16.878	16.951	VV	6857	252391	4.99%	0.142%
253	16.965	16.951	16.975	VV	6270	81512	2.45%	0.070%
254	17.022	16.975	17.051	VV	10660	357488	6.54%	0.186%
255	17.064	17.051	17.104	VV	7925	175444	4.24%	0.121%
256	17.148	17.104	17.198	VV	10831	468151	5.21%	0.148%
257	17.218	17.198	17.261	VV	12017	303409	3.07%	0.087%
258	17.318	17.261	17.344	VV	11111	373140	3.39%	0.096%
259	17.384	17.344	17.400	VV	8909	219813	3.34%	0.095%
260	17.425	17.400	17.461	VV	7579	242753	4.95%	0.141%
261	17.502	17.461	17.518	VV	7484	238994	68.76%	1.956%
262	17.550	17.518	17.574	VV	13792	354625	4.45%	0.127%
263	17.658	17.574	17.714	VV	296371	4923881	10.30%	0.293%
264	17.747	17.714	17.765	VV	12678	318857	3.04%	0.087%
265	17.791	17.765	17.850	VV	22115	737824	1.58%	0.045%
266	17.867	17.850	17.887	VV	11003	217898	4.67%	0.133%
267	17.898	17.887	17.908	VV	9036	113056	2.79%	0.079%
268	17.935	17.908	17.955	VV	15987	334269	65.80%	1.872%
269	17.969	17.955	17.984	VV	12058	199655	3.04%	0.087%
270	18.035	17.984	18.052	VV	298541	4711774	1.58%	0.045%
271	18.073	18.052	18.132	VV	310337	4434332	8.75%	0.249%
272	18.160	18.132	18.181	VV	31525	626408	9.19%	0.261%
273	18.192	18.181	18.247	VV	19636	657895	61.76%	1.757%
274	18.290	18.247	18.334	VV	284176	4422808	7.82%	0.222%
275	18.364	18.334	18.391	VV	17936	559845	8.06%	0.229%
276	18.411	18.391	18.446	VV	21602	577294	66.38%	1.889%
277	18.489	18.446	18.526	VV	296226	4753244	3.28%	0.093%
278	18.538	18.526	18.552	VV	16076	234794	9.06%	0.258%
279	18.582	18.552	18.604	VV	27906	648955	9.42%	0.268%
280	18.629	18.604	18.657	VV	24479	674549	20.10%	0.572%
281	18.752	18.657	18.769	VV	25653	1438968	8.76%	0.249%
282	18.792	18.769	18.810	VV	28811	627447	13.61%	0.387%
283	18.836	18.810	18.863	VV	35266	974634	10.26%	0.292%
284	18.883	18.863	18.901	VV	35689	734439	8.27%	0.235%
285	18.914	18.901	18.938	VV	30029	592402	14.12%	0.402%
286	18.987	18.938	19.001	VV	28135	1011177	4.13%	0.118%
287	19.005	19.001	19.021	VV	27479	295733	3.11%	0.088%
288	19.030	19.021	19.038	VV	22589	222382	5.08%	0.145%
289	19.049	19.038	19.064	VV	24877	363767	20.49%	0.583%
290	19.138	19.064	19.161	VV	28460	1467287	4.47%	0.127%
291	19.168	19.161	19.182	VV	27411	319937	7.32%	0.208%
292	19.191	19.182	19.217	VV	26287	524349	78.60%	2.236%
293	19.273	19.217	19.318	VV	301390	5628735	6.19%	0.176%
294	19.323	19.318	19.345	VV	28809	442936	15.49%	0.441%
295	19.390	19.345	19.406	VV	33220	1109036	16.67%	0.474%
296	19.438	19.406	19.461	VV	40640	1193384	39.00%	1.110%
297	19.500	19.461	19.580	VV	44636	2792425	15.30%	0.435%
298	19.610	19.580	19.625	VV	42920	1095405	14.62%	0.416%
299	19.645	19.625	19.668	VV	43527	1046941		

Instrument :

FID_C

ClientSampleId :

OR-02-100924MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024

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							Instrument : FID_C ClientSampleId : OR-02-100924MSD	
300	19.691	19.668	19.738	VV	41698	1598340	22.32%	0.635%
301	19.813	19.738	19.848	VV	51679	2871173	40.00%	0.000%
302	19.906	19.848	19.941	VV	55252	2848337	39.00%	0.000%
303	19.951	19.941	19.958	VV	50553	485968	6.00%	0.000%
304	20.012	19.958	20.050	VV	302427	6327975	88.00%	0.000%
305	20.068	20.050	20.091	VV	48026	1104316	15.00%	0.000%
306	20.150	20.091	20.161	VV	54037	2031892	28.38%	0.807%
307	20.210	20.161	20.223	VV	61436	2109750	29.46%	0.838%
308	20.247	20.223	20.261	VV	59763	1304372	18.22%	0.518%
309	20.274	20.261	20.338	VV	55735	2380180	33.24%	0.946%
310	20.366	20.338	20.407	VV	58502	2267957	31.67%	0.901%
311	20.454	20.407	20.473	VV	61784	2270203	31.70%	0.902%
312	20.477	20.473	20.524	VV	59106	1697730	23.71%	0.675%
313	20.529	20.524	20.604	VV	51257	2250254	31.42%	0.894%
314	20.652	20.604	20.668	VV	48586	1770855	24.73%	0.704%
315	20.740	20.668	20.794	VV	243241	7160807	100.00%	2.845%
316	20.811	20.794	20.884	VV	42838	2072596	28.94%	0.824%
317	20.894	20.884	20.934	VV	38767	1085941	15.17%	0.431%
318	20.949	20.934	20.974	VV	39134	890126	12.43%	0.354%
319	20.983	20.974	21.037	VV	38296	1409311	19.68%	0.560%
320	21.045	21.037	21.211	VV	37387	3046428	42.54%	1.210%
321	21.222	21.211	21.231	VV	21105	239120	3.34%	0.095%
322	21.258	21.231	21.270	VV	24802	515013	7.19%	0.205%
323	21.299	21.270	21.337	VV	22170	828728	11.57%	0.329%
324	21.352	21.337	21.377	VV	21009	465810	6.50%	0.185%
325	21.388	21.377	21.413	VV	20118	401814	5.61%	0.160%
326	21.425	21.413	21.451	VV	18383	362760	5.07%	0.144%
327	21.464	21.451	21.481	VV	15738	264505	3.69%	0.105%
328	21.489	21.481	21.518	VV	14295	285848	3.99%	0.114%
329	21.553	21.518	21.579	VV	14680	479963	6.70%	0.191%
330	21.632	21.579	21.741	VV	153887	4280520	59.78%	1.701%
331	21.751	21.741	21.778	PV	3782	42685	0.60%	0.017%
Sum of corrected areas:							251680334	

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024

Aliphatic EPH 100224.M Mon Oct 14 04:54:48 2024



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

Manual Integration Report

Sequence:

FC100224AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	FC101124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4376-01	FC067403.D	ortho-Terphenyl (SURR)	yogesh	10/14/2024 8:48:43 AM	Ankita	10/14/2024 9:12:28	Peak Integrated by Software
P4376-01D	FC067404.D	ortho-Terphenyl (SURR)	yogesh	10/14/2024 8:48:45 AM	Ankita	10/14/2024 9:12:29	Peak Integrated by Software
P4376-01MS	FC067405.D	A~Naphthalene (C11.7)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Dotriacontane (C32)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Octacosane (C28)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	n-Tricontane (C30)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MS	FC067405.D	ortho-Terphenyl (SURR)	yogesh	10/14/2024 8:48:48 AM	Ankita	10/14/2024 9:12:31	Peak Integrated by Software
P4376-01MSD	FC067406.D	A~Naphthalene (C11.7)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	n-Dotriacontane (C32)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software

Manual Integration Report

Sequence:	FC101124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4376-01MSD	FC067406.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	n-Octacosane (C28)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	n-Tricontane (C30)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
P4376-01MSD	FC067406.D	ortho-Terphenyl (SURR)	yogesh	10/14/2024 8:48:50 AM	Ankita	10/14/2024 9:12:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067408.D	n-Dotriacontane (C32)	yogesh	10/14/2024 8:48:52 AM	Ankita	10/14/2024 9:12:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067408.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:48:52 AM	Ankita	10/14/2024 9:12:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067408.D	n-Octacosane (C28)	yogesh	10/14/2024 8:48:52 AM	Ankita	10/14/2024 9:12:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067408.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:52 AM	Ankita	10/14/2024 9:12:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067408.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:48:52 AM	Ankita	10/14/2024 9:12:34	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067408.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:52 AM	Ankita	10/14/2024 9:12:34	Peak Integrated by Software

Manual Integration Report

Sequence:	FC101124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164054BS	FC067410.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:54 AM	Ankita	10/14/2024 9:12:36	Peak Integrated by Software
PB164054BS	FC067410.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:48:54 AM	Ankita	10/14/2024 9:12:36	Peak Integrated by Software
PB164054BS	FC067410.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:54 AM	Ankita	10/14/2024 9:12:36	Peak Integrated by Software
PB164054BSD	FC067411.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:48:56 AM	Ankita	10/14/2024 9:12:37	Peak Integrated by Software
PB164054BSD	FC067411.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:56 AM	Ankita	10/14/2024 9:12:37	Peak Integrated by Software
PB164054BSD	FC067411.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:56 AM	Ankita	10/14/2024 9:12:37	Peak Integrated by Software
P4368-01	FC067412.D	n-Decane (C10)	yogesh	10/14/2024 8:48:58 AM	Ankita	10/14/2024 9:12:39	Peak Integrated by Software
P4368-01	FC067412.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:48:58 AM	Ankita	10/14/2024 9:12:39	Peak Integrated by Software
P4368-01	FC067412.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:58 AM	Ankita	10/14/2024 9:12:39	Peak Integrated by Software
P4368-01	FC067412.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:48:58 AM	Ankita	10/14/2024 9:12:39	Peak Integrated by Software
P4368-01	FC067412.D	n-Tetracosane (C24)	yogesh	10/14/2024 8:48:58 AM	Ankita	10/14/2024 9:12:39	Peak Integrated by Software
P4368-01	FC067412.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:58 AM	Ankita	10/14/2024 9:12:39	Peak Integrated by Software
P4368-01	FC067413.D	n-Decane (C10)	yogesh	10/14/2024 8:48:59 AM	Ankita	10/14/2024 9:12:40	Peak Integrated by Software

Manual Integration Report

Sequence:	FC101124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4368-01	FC067413.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:48:59 AM	Ankita	10/14/2024 9:12:40	Peak Integrated by Software
P4368-01	FC067413.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:48:59 AM	Ankita	10/14/2024 9:12:40	Peak Integrated by Software
P4368-01	FC067413.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:48:59 AM	Ankita	10/14/2024 9:12:40	Peak Integrated by Software
P4368-01	FC067413.D	n-Tetracosane (C24)	yogesh	10/14/2024 8:48:59 AM	Ankita	10/14/2024 9:12:40	Peak Integrated by Software
P4368-01	FC067413.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:48:59 AM	Ankita	10/14/2024 9:12:40	Peak Integrated by Software
P4368-02	FC067414.D	n-Decane (C10)	yogesh	10/14/2024 8:49:01 AM	Ankita	10/14/2024 9:12:41	Peak Integrated by Software
P4368-02	FC067414.D	n-Hexacosane (C26)	yogesh	10/14/2024 8:49:01 AM	Ankita	10/14/2024 9:12:41	Peak Integrated by Software
P4368-02	FC067414.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:49:01 AM	Ankita	10/14/2024 9:12:41	Peak Integrated by Software
P4368-02	FC067414.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:49:01 AM	Ankita	10/14/2024 9:12:41	Peak Integrated by Software
P4368-02	FC067414.D	n-Tetracosane (C24)	yogesh	10/14/2024 8:49:01 AM	Ankita	10/14/2024 9:12:41	Peak Integrated by Software
P4368-02	FC067414.D	n-Tricontane (C30)	yogesh	10/14/2024 8:49:01 AM	Ankita	10/14/2024 9:12:41	Peak Integrated by Software
P4258-03MS	FC067417.D	n-Dotriacontane (C32)	yogesh	10/14/2024 8:49:02 AM	Ankita	10/14/2024 9:12:57	Peak Integrated by Software
P4258-03MS	FC067417.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:49:02 AM	Ankita	10/14/2024 9:12:57	Peak Integrated by Software

Manual Integration Report

Sequence:	FC101124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4258-03MS	FC067417.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:49:02 AM	Ankita	10/14/2024 9:12:57	Peak Integrated by Software
P4258-03MSD	FC067418.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:49:04 AM	Ankita	10/14/2024 9:13:00	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC067420.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:49:05 AM	Ankita	10/14/2024 9:13:02	Peak Integrated by Software
P4368-07	FC067422.D	n-Decane (C10)	yogesh	10/14/2024 8:49:07 AM	Ankita	10/14/2024 9:13:03	Peak Integrated by Software
P4368-07	FC067422.D	n-Hexacosane (C26)	yogesh	10/14/2024 8:49:07 AM	Ankita	10/14/2024 9:13:03	Peak Integrated by Software
P4368-07	FC067422.D	n-Hexatriacontane (C36)	yogesh	10/14/2024 8:49:07 AM	Ankita	10/14/2024 9:13:03	Peak Integrated by Software
P4368-07	FC067422.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:49:07 AM	Ankita	10/14/2024 9:13:03	Peak Integrated by Software
P4368-07	FC067422.D	n-Tetracosane (C24)	yogesh	10/14/2024 8:49:07 AM	Ankita	10/14/2024 9:13:03	Peak Integrated by Software
P4368-07	FC067423.D	n-Decane (C10)	yogesh	10/14/2024 8:49:09 AM	Ankita	10/14/2024 9:13:04	Peak Integrated by Software
P4368-07	FC067423.D	n-Octatriacontane (C38)	yogesh	10/14/2024 8:49:09 AM	Ankita	10/14/2024 9:13:04	Peak Integrated by Software
P4368-07	FC067423.D	n-Tetracosane (C24)	yogesh	10/14/2024 8:49:09 AM	Ankita	10/14/2024 9:13:04	Peak Integrated by Software
P4368-08	FC067424.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:49:11 AM	Ankita	10/14/2024 9:13:06	Peak Integrated by Software
P4368-08	FC067424.D	n-Tetracosane (C24)	yogesh	10/14/2024 8:49:11 AM	Ankita	10/14/2024 9:13:06	Peak Integrated by Software

Manual Integration Report

Sequence:	FC101124AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC067426.D	n-Tetratriacontane (C34)	yogesh	10/14/2024 8:49:13 AM	Ankita	10/14/2024 9:13:07	Peak Integrated by Software

Manual Integration Report

Sequence:

FE100824AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
10 PPM ALIPHATIC HC	FE050538.D	n-Octatriacontane (C38)	yogesh	10/8/2024 8:01:13 AM	Ankita	10/8/2024 9:52:52	Peak Integrated by Software
5 PPM ALIPHATIC HC	FE050539.D	n-Tetracontane (C40)	yogesh	10/8/2024 8:01:15 AM	Ankita	10/8/2024 9:52:53	Peak Integrated by Software

Manual Integration Report

Sequence:

FE101224AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4376-02	FE050617.D	ortho-Terphenyl (SURR)	yogesh	10/14/2024 8:43:18 AM	Ankita	10/14/2024 9:12:02	Peak Integrated by Software
P4385-06	FE050622.D	1-chlorooctadecane (SURR)	yogesh	10/14/2024 8:43:20 AM	Ankita	10/14/2024 9:12:03	Peak Integrated by Software
20 PPM ALIPHATIC HC	FE050631.D	n-Tetracontane (C40)	yogesh	10/14/2024 8:43:21 AM	Ankita	10/14/2024 9:12:05	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100224AL

Review By	yogesh	Review On	10/1/2024 9:33:02 AM
Supervise By	Ankita	Supervise On	10/1/2024 10:31:51 AM
SubDirectory	FC100224AL	HP Acquire Method	HP Processing Method FC100224AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067310.D	30 Sep 2024 09:18	YP/AJ	Ok
2	I.BLK	FC067311.D	30 Sep 2024 09:55	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC067312.D	30 Sep 2024 10:32	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC067313.D	30 Sep 2024 11:10	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC067314.D	30 Sep 2024 11:48	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC067315.D	30 Sep 2024 12:47	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC067316.D	30 Sep 2024 13:35	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC067317.D	30 Sep 2024 14:29	YP/AJ	Ok
9	I.BLK	FC067318.D	30 Sep 2024 15:06	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC067319.D	30 Sep 2024 15:49	YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC101124AL

Review By	yogesh	Review On	10/11/2024 12:39:06 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:13:11 AM
SubDirectory	FC101124AL	HP Acquire Method	HP Processing Method FC100224AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC067397.D	11 Oct 2024 09:28	YP/AJ	Ok
2	I.BLK	FC067398.D	11 Oct 2024 10:04	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC067399.D	11 Oct 2024 12:04	YP/AJ	Ok
4	PB164070BL	FC067400.D	11 Oct 2024 14:12	YP/AJ	Ok
5	PB164070BS	FC067401.D	11 Oct 2024 14:49	YP/AJ	Ok
6	PB164070BSD	FC067402.D	11 Oct 2024 15:25	YP/AJ	Ok
7	P4376-01	FC067403.D	11 Oct 2024 16:02	YP/AJ	Ok,M
8	P4376-01D	FC067404.D	11 Oct 2024 16:39	YP/AJ	Ok,M
9	P4376-01MS	FC067405.D	11 Oct 2024 17:15	YP/AJ	Ok,M
10	P4376-01MSD	FC067406.D	11 Oct 2024 17:52	YP/AJ	Ok,M
11	I.BLK	FC067407.D	11 Oct 2024 19:06	YP/AJ	Ok
12	20 PPM ALIPHATIC HC STD	FC067408.D	11 Oct 2024 19:42	YP/AJ	Ok,M
13	PB164054BL	FC067409.D	11 Oct 2024 20:55	YP/AJ	Ok
14	PB164054BS	FC067410.D	11 Oct 2024 21:31	YP/AJ	Ok,M
15	PB164054BSD	FC067411.D	11 Oct 2024 22:07	YP/AJ	Ok,M
16	P4368-01	FC067412.D	11 Oct 2024 22:44	YP/AJ	Ok,M
17	P4368-01	FC067413.D	11 Oct 2024 23:21	YP/AJ	Ok,M
18	P4368-02	FC067414.D	11 Oct 2024 23:58	YP/AJ	Ok,M
19	P4258-03	FC067415.D	12 Oct 2024 00:35	YP/AJ	Ok
20	P4258-03D	FC067416.D	12 Oct 2024 01:12	YP/AJ	Ok
21	P4258-03MS	FC067417.D	12 Oct 2024 01:50	YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC101124AL

Review By	yogesh	Review On	10/11/2024 12:39:06 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:13:11 AM
SubDirectory	FC101124AL	HP Acquire Method	HP Processing Method FC100224AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

22	P4258-03MSD	FC067418.D	12 Oct 2024 02:27	YP/AJ	Ok,M
23	I.BLK	FC067419.D	12 Oct 2024 03:04	YP/AJ	Ok
24	20 PPM ALIPHATIC HC STD	FC067420.D	12 Oct 2024 03:41	YP/AJ	Ok,M
25	PB164057BL	FC067421.D	12 Oct 2024 04:55	YP/AJ	Ok
26	P4368-07	FC067422.D	12 Oct 2024 05:31	YP/AJ	Ok,M
27	P4368-07	FC067423.D	12 Oct 2024 06:08	YP/AJ	Ok,M
28	P4368-08	FC067424.D	12 Oct 2024 06:45	YP/AJ	Ok,M
29	I.BLK	FC067425.D	12 Oct 2024 07:22	YP/AJ	Ok
30	20 PPM ALIPHATIC HC STD	FC067426.D	12 Oct 2024 07:59	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE100824AL

Review By	yogesh	Review On	10/7/2024 4:16:27 PM
Supervise By	Ankita	Supervise On	10/8/2024 9:52:58 AM
SubDirectory	FE100824AL	HP Acquire Method	HP Processing Method FE100824AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE050533.D	07 Oct 2024 13:05	YP\AJ	Ok
2	I.BLK	FE050534.D	07 Oct 2024 13:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE050535.D	07 Oct 2024 14:06	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE050536.D	07 Oct 2024 14:36	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE050537.D	07 Oct 2024 15:06	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE050538.D	07 Oct 2024 15:37	YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC STD5	FE050539.D	07 Oct 2024 16:07	YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC STD ICV	FE050540.D	07 Oct 2024 16:37	YP\AJ	Ok
9	I.BLK	FE050541.D	07 Oct 2024 18:08	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE050542.D	07 Oct 2024 18:39	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE101224AL

Review By	yogesh	Review On	10/11/2024 12:38:00 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:12:08 AM
SubDirectory	FE101224AL	HP Acquire Method	HP Processing Method FE100824AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE050614.D	11 Oct 2024 09:31	YP\AJ	Ok
2	I.BLK	FE050615.D	11 Oct 2024 10:01	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE050616.D	11 Oct 2024 12:32	YP\AJ	Ok
4	P4376-02	FE050617.D	11 Oct 2024 14:01	YP\AJ	Ok,M
5	P4377-01	FE050618.D	11 Oct 2024 14:32	YP\AJ	Dilution
6	P4377-02	FE050619.D	11 Oct 2024 15:02	YP\AJ	Ok
7	P4385-02	FE050620.D	11 Oct 2024 15:32	YP\AJ	Ok
8	P4385-04	FE050621.D	11 Oct 2024 16:03	YP\AJ	Ok
9	P4385-06	FE050622.D	11 Oct 2024 16:33	YP\AJ	Ok,M
10	P4385-08	FE050623.D	11 Oct 2024 17:03	YP\AJ	Ok
11	P4385-10	FE050624.D	11 Oct 2024 17:33	YP\AJ	Ok
12	P4385-12	FE050625.D	11 Oct 2024 18:03	YP\AJ	Ok
13	P4385-14	FE050626.D	11 Oct 2024 18:33	YP\AJ	Ok
14	P4385-16	FE050627.D	11 Oct 2024 19:03	YP\AJ	Ok
15	P4385-18	FE050628.D	11 Oct 2024 19:33	YP\AJ	Ok
16	P4385-20	FE050629.D	11 Oct 2024 20:04	YP\AJ	Ok
17	I.BLK	FE050630.D	11 Oct 2024 21:04	YP\AJ	Ok
18	20 PPM ALIPHATIC HC STD	FE050631.D	11 Oct 2024 21:34	YP\AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC100224AL

Review By	yogesh	Review On	10/1/2024 9:33:02 AM
Supervise By	Ankita	Supervise On	10/1/2024 10:31:51 AM
SubDirectory	FC100224AL	HP Acquire Method	HP Processing Method FC100224AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067310.D	30 Sep 2024 09:18		YP/AJ	Ok
2	I.BLK	I.BLK	FC067311.D	30 Sep 2024 09:55		YP/AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FC067312.D	30 Sep 2024 10:32		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC067313.D	30 Sep 2024 11:10		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067314.D	30 Sep 2024 11:48		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC067315.D	30 Sep 2024 12:47		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC067316.D	30 Sep 2024 13:35		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067317.D	30 Sep 2024 14:29		YP/AJ	Ok
9	I.BLK	I.BLK	FC067318.D	30 Sep 2024 15:06		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067319.D	30 Sep 2024 15:49		YP/AJ	Ok

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC101124AL

Review By	yogesh	Review On	10/11/2024 12:39:06 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:13:11 AM
SubDirectory	FC101124AL	HP Acquire Method	HP Processing Method FC100224AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC067397.D	11 Oct 2024 09:28		YP/AJ	Ok
2	I.BLK	I.BLK	FC067398.D	11 Oct 2024 10:04		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067399.D	11 Oct 2024 12:04		YP/AJ	Ok
4	PB164070BL	PB164070BL	FC067400.D	11 Oct 2024 14:12		YP/AJ	Ok
5	PB164070BS	PB164070BS	FC067401.D	11 Oct 2024 14:49		YP/AJ	Ok
6	PB164070BSD	PB164070BSD	FC067402.D	11 Oct 2024 15:25		YP/AJ	Ok
7	P4376-01	OR-02-100924	FC067403.D	11 Oct 2024 16:02		YP/AJ	Ok,M
8	P4376-01D	P4376-01D	FC067404.D	11 Oct 2024 16:39		YP/AJ	Ok,M
9	P4376-01MS	OR-02-100924MS	FC067405.D	11 Oct 2024 17:15	FC067403.D	YP/AJ	Ok,M
10	P4376-01MSD	OR-02-100924MSD	FC067406.D	11 Oct 2024 17:52	FC067403.D!FC067405.D	YP/AJ	Ok,M
11	I.BLK	I.BLK	FC067407.D	11 Oct 2024 19:06		YP/AJ	Ok
12	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067408.D	11 Oct 2024 19:42		YP/AJ	Ok,M
13	PB164054BL	PB164054BL	FC067409.D	11 Oct 2024 20:55		YP/AJ	Ok
14	PB164054BS	PB164054BS	FC067410.D	11 Oct 2024 21:31		YP/AJ	Ok,M
15	PB164054BSD	PB164054BSD	FC067411.D	11 Oct 2024 22:07		YP/AJ	Ok,M
16	P4368-01	LOD-MDL-SOIL-01-QT	FC067412.D	11 Oct 2024 22:44	2.5 PPM SOIL LOD	YP/AJ	Ok,M
17	P4368-01	LOD-MDL-SOIL-01-QT	FC067413.D	11 Oct 2024 23:21	4 PPM SOIL LOD	YP/AJ	Ok,M
18	P4368-02	LOQ-SOIL-02-QT4-202	FC067414.D	11 Oct 2024 23:58	5 PPM SOIL LOQ	YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC101124AL

Review By	yogesh	Review On	10/11/2024 12:39:06 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:13:11 AM
SubDirectory	FC101124AL	HP Acquire Method	HP Processing Method FC100224AL
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	P4258-03	Chamberlain Ave	FC067415.D	12 Oct 2024 00:35		YP/AJ	Ok
20	P4258-03D	P4258-03D	FC067416.D	12 Oct 2024 01:12		YP/AJ	Ok
21	P4258-03MS	Chamberlain AveMS	FC067417.D	12 Oct 2024 01:50	FC067415.D	YP/AJ	Ok,M
22	P4258-03MSD	Chamberlain AveMSD	FC067418.D	12 Oct 2024 02:27	FC067415.D!FC067417.D	YP/AJ	Ok,M
23	I.BLK	I.BLK	FC067419.D	12 Oct 2024 03:04		YP/AJ	Ok
24	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067420.D	12 Oct 2024 03:41		YP/AJ	Ok,M
25	PB164057BL	PB164057BL	FC067421.D	12 Oct 2024 04:55		YP/AJ	Ok
26	P4368-07	LOD-MDL-WATER-01-0	FC067422.D	12 Oct 2024 05:31	2.5 PPM WATER LOD	YP/AJ	Ok,M
27	P4368-07	LOD-MDL-WATER-01-0	FC067423.D	12 Oct 2024 06:08	4 PPM WATER LOD	YP/AJ	Ok,M
28	P4368-08	LOQ-WATER-02-QT4-2	FC067424.D	12 Oct 2024 06:45	5 PPM WATER LOQ	YP/AJ	Ok,M
29	I.BLK	I.BLK	FC067425.D	12 Oct 2024 07:22		YP/AJ	Ok
30	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC067426.D	12 Oct 2024 07:59		YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE100824AL

Review By	yogesh	Review On	10/7/2024 4:16:27 PM
Supervise By	Ankita	Supervise On	10/8/2024 9:52:58 AM
SubDirectory	FE100824AL	HP Acquire Method	HP Processing Method FE100824AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE050533.D	07 Oct 2024 13:05		YP\AJ	Ok
2	I.BLK	I.BLK	FE050534.D	07 Oct 2024 13:36		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE050535.D	07 Oct 2024 14:06		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE050536.D	07 Oct 2024 14:36		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050537.D	07 Oct 2024 15:06		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE050538.D	07 Oct 2024 15:37		YP\AJ	Ok,M
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE050539.D	07 Oct 2024 16:07		YP\AJ	Ok,M
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050540.D	07 Oct 2024 16:37		YP\AJ	Ok
9	I.BLK	I.BLK	FE050541.D	07 Oct 2024 18:08		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050542.D	07 Oct 2024 18:39		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE101224AL

Review By	yogesh	Review On	10/11/2024 12:38:00 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:12:08 AM
SubDirectory	FE101224AL	HP Acquire Method	HP Processing Method FE100824AL
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	FE050614.D	11 Oct 2024 09:31		YPIAJ	Ok
2	I.BLK	I.BLK	FE050615.D	11 Oct 2024 10:01		YPIAJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050616.D	11 Oct 2024 12:32		YPIAJ	Ok
4	P4376-02	OR-02-100924-E2	FE050617.D	11 Oct 2024 14:01		YPIAJ	Ok,M
5	P4377-01	HD-01-100924	FE050618.D	11 Oct 2024 14:32	need 2x dilution	YPIAJ	Dilution
6	P4377-02	HD-01-100924-E2	FE050619.D	11 Oct 2024 15:02		YPIAJ	Ok
7	P4385-02	SP-1	FE050620.D	11 Oct 2024 15:32		YPIAJ	Ok
8	P4385-04	SP-2	FE050621.D	11 Oct 2024 16:03		YPIAJ	Ok
9	P4385-06	SP-3	FE050622.D	11 Oct 2024 16:33		YPIAJ	Ok,M
10	P4385-08	SP-4	FE050623.D	11 Oct 2024 17:03		YPIAJ	Ok
11	P4385-10	SP-5	FE050624.D	11 Oct 2024 17:33		YPIAJ	Ok
12	P4385-12	SP-6	FE050625.D	11 Oct 2024 18:03		YPIAJ	Ok
13	P4385-14	SP-7	FE050626.D	11 Oct 2024 18:33		YPIAJ	Ok
14	P4385-16	SP-8	FE050627.D	11 Oct 2024 19:03		YPIAJ	Ok
15	P4385-18	SP-9	FE050628.D	11 Oct 2024 19:33		YPIAJ	Ok
16	P4385-20	SP-10	FE050629.D	11 Oct 2024 20:04		YPIAJ	Ok
17	I.BLK	I.BLK	FE050630.D	11 Oct 2024 21:04		YPIAJ	Ok
18	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE050631.D	11 Oct 2024 21:34		YPIAJ	Ok,M

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE101224AL

Review By	yogesh	Review On	10/11/2024 12:38:00 PM
Supervise By	Ankita	Supervise On	10/14/2024 9:12:08 AM
SubDirectory	FE101224AL	HP Acquire Method	HP Processing Method FE100824AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/11/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:18
Out Date: 10/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB132870

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
P4375-01	CONCRETE-PADS-1	1	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-03	CONCRETE-PADS-2	2	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-05	CONCRETE-PADS-3	3	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-07	CONCRETE-PADS-4	4	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-09	CONCRETE-PADS-5	5	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-11	CONCRETE-PADS-6	6	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-13	CONCRETE-PADS-7	7	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-15	CONCRETE-PADS-8	8	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-17	CONCRETE-PADS-9	9	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-19	CONCRETE-PADS-10	10	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-21	CONCRETE-PADS-11	11	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-23	FENCE-POST-1	12	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-25	FENCE-POST-2	13	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4375-27	FENCE-POST-3	14	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P4376-01	OR-02-100924	15	1.18	8.51	9.69	9.25	94.8	
P4376-02	OR-02-100924-E2	16	1.18	8.51	9.69	9.07	92.7	
P4377-01	HD-01-100924	17	1.17	8.53	9.7	8.9	90.6	
P4377-02	HD-01-100924-E2	18	1.15	8.83	9.98	9.03	89.2	
P4381-01	AT030P-SD04-100724-00	19	1.15	8.79	9.94	4.03	32.8	
P4381-02	AT030P-SD01-100724-00	20	1.15	8.70	9.85	8.44	83.8	
P4381-03	AT030P-SD02-100724-00	21	1.16	8.51	9.67	3.62	28.9	
P4383-01	34828	22	1.00	1.00	2.00	2.00	100.0	wipe sample
P4383-02	34829	23	1.00	1.00	2.00	2.00	100.0	wipe sample
P4383-03	34830	24	1.00	1.00	2.00	2.00	100.0	wipe sample
P4385-01	SP-1	25	1.17	8.60	9.77	9.15	92.8	
P4385-02	SP-1	26	1.14	8.48	9.62	9.06	93.4	
P4385-03	SP-2	27	1.15	8.41	9.56	9.09	94.4	
P4385-04	SP-2	28	1.18	8.39	9.57	9.15	95.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/11/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:18
Out Date: 10/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB132870

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
P4385-05	SP-3	29	1.18	8.50	9.68	9.35	96.1	
P4385-06	SP-3	30	1.15	8.64	9.79	9.28	94.1	
P4385-07	SP-4	31	1.14	8.43	9.57	9.44	98.5	
P4385-08	SP-4	32	1.19	8.44	9.63	9.55	99.1	
P4385-09	SP-5	33	1.15	8.68	9.83	9.28	93.7	
P4385-10	SP-5	34	1.15	8.51	9.66	9.1	93.4	
P4385-11	SP-6	35	1.14	8.44	9.58	9.04	93.6	
P4385-12	SP-6	36	1.17	8.53	9.7	9.1	93.0	
P4385-13	SP-7	37	1.12	8.73	9.85	9.31	93.8	
P4385-14	SP-7	38	1.18	8.77	9.95	9.41	93.8	
P4385-15	SP-8	39	1.18	8.62	9.8	9.32	94.4	
P4385-16	SP-8	40	1.17	8.46	9.63	9.15	94.3	
P4385-17	SP-9	41	1.15	8.61	9.76	9.19	93.4	
P4385-18	SP-9	42	1.18	8.53	9.71	9.15	93.4	
P4385-19	SP-10	43	1.19	8.53	9.72	9.18	93.7	
P4385-20	SP-10	44	1.18	8.55	9.73	9.25	94.4	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

132870

WorkList Name : %1-101024 WorkList ID : 184301 Department : Wet-Chemistry Date : 10-10-2024 08:32:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4375-01	CONCRETE-PADS-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-03	CONCRETE-PADS-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-05	CONCRETE-PADS-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-07	CONCRETE-PADS-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-09	CONCRETE-PADS-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-11	CONCRETE-PADS-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-13	CONCRETE-PADS-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-15	CONCRETE-PADS-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-17	CONCRETE-PADS-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-19	CONCRETE-PADS-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-21	CONCRETE-PADS-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-23	FENCE-POST-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-25	FENCE-POST-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4375-27	FENCE-POST-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	K21	10/09/2024	Chemtech -SO
P4376-01	OR-02-100924	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4376-02	OR-02-100924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4377-01	HD-01-100924	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4377-02	HD-01-100924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	K21	10/09/2024	Chemtech -SO
P4381-01	AT030P-SD04-100724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	K22	10/07/2024	Chemtech -SO
P4381-02	AT030P-SD01-100724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	K22	10/07/2024	Chemtech -SO
P4381-03	AT030P-SD02-100724-00	Solid	Percent Solids	Cool 4 deg C	WEST04	K22	10/07/2024	Chemtech -SO

Date/Time 10/10/24 15:30 Date/Time 10/10/24 17:20
 Raw Sample Received by: JWC Raw Sample Received by: JDCSM
 Raw Sample Relinquished by: JWC Raw Sample Relinquished by: JWC

WORKLIST(Hardcopy Internal Chain)

132870

WorkList Name : %1-101024 WorkList ID : 184301 Department : Wet-Chemistry Date : 10-10-2024 08:32:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4383-01	34828	Solid	Percent Solids	Cool 4 deg C	PSEG03	K23	10/10/2024	Chemtech -SO
P4383-02	34829	Solid	Percent Solids	Cool 4 deg C	PSEG03	K23	10/10/2024	Chemtech -SO
P4383-03	34830	Solid	Percent Solids	Cool 4 deg C	PSEG03	K23	10/10/2024	Chemtech -SO
P4385-01	SP-1	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-02	SP-1	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-03	SP-2	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-04	SP-2	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-05	SP-3	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-06	SP-3	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-07	SP-4	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-08	SP-4	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-09	SP-5	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-10	SP-5	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-11	SP-6	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-12	SP-6	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-13	SP-7	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-14	SP-7	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-15	SP-8	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-16	SP-8	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-17	SP-9	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-18	SP-9	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO

Date/Time 10/10/24 15:30 Date/Time 10/10/24 17:20
 Raw Sample Received by: JD CSM Raw Sample Received by: JD CSM
 Raw Sample Relinquished by: JD CSM Raw Sample Relinquished by: JD CSM

WORKLIST(Hardcopy Internal Chain)

✓ 132870

WorkList Name : %1-101024 WorkList ID : 184301 Department : Wet-Chemistry Date : 10-10-2024 08:32:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4385-19	SP-10	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO
P4385-20	SP-10	Solid	Percent Solids	Cool 4 deg C	SCHE03	K51	10/10/2024	Chemtech -SO

Date/Time 10/10/24 15:30
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: JDCSM

Date/Time 10/10/24 17:20
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: JDCSM

SOP ID:	MNJDEP-EPH-7		
Clean Up SOP #:	N/A	Extraction Start Date :	10/11/2024
Matrix :	Solid	Extraction Start Time :	09:55
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
		Concentration By:	EH
		Supervisor By :	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP23712
Surrogate	1.0ML	100 PPM	PP23706
Fractionation Surrogate	1.0ML	100 PPM	PP23704
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	EP2538
Baked Na2SO4	N/A	EP2543
Sand	N/A	E2865
Hexane	N/A	E3816
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID:	N/A	Envap ID:	NE VAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/11/24	RJ (Ext. Lab)	Y-P-pest/AB.
14:00	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-7

Concentration Date: 10/11/2024

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164070BL	PB164070BL	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U5-1
PB164070BS	PB164070BS	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
PB164070BSD	PB164070BSD	EPH_NF	30.02	N/A	ritesh	Evelyn	2			3
P4376-01	OR-02-100924	EPH_NF	30.09	N/A	ritesh	Evelyn	2	E		4
P4376-01DUP	OR-02-100924DUP	EPH_NF	30.02	N/A	ritesh	Evelyn	2	E		5
P4376-01MS	OR-02-100924MS	EPH_NF	30.05	N/A	ritesh	Evelyn	2	E		6
P4376-01MS D	OR-02-100924MSD	EPH_NF	30.06	N/A	ritesh	Evelyn	2	E		U1-1
P4376-02	OR-02-100924-E2	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
P4377-01	HD-01-100924	EPH_NF	30.10	N/A	ritesh	Evelyn	2	E		3
P4377-02	HD-01-100924-E2	EPH_NF	30.03	N/A	ritesh	Evelyn	2			4
P4385-02	SP-1	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		5
P4385-04	SP-2	EPH_NF	30.04	N/A	ritesh	Evelyn	2	B		6
P4385-06	SP-3	EPH_NF	30.05	N/A	ritesh	Evelyn	2	B		U6-1
P4385-08	SP-4	EPH_NF	30.03	N/A	ritesh	Evelyn	2	B		2
P4385-10	SP-5	EPH_NF	30.06	N/A	ritesh	Evelyn	2	B		3
P4385-12	SP-6	EPH_NF	30.08	N/A	ritesh	Evelyn	2	B		4
P4385-14	SP-7	EPH_NF	30.05	N/A	ritesh	Evelyn	2	B		5
P4385-16	SP-8	EPH_NF	30.02	N/A	ritesh	Evelyn	2	B		6
P4385-18	SP-9	EPH_NF	30.07	N/A	ritesh	Evelyn	2	B		U7-1
P4385-20	SP-10	EPH_NF	30.04	N/A	ritesh	Evelyn	2	B		2

* Extracts relinquished on the same date as received.

10/11/24

16401
5615
9/13

WORKLIST(Hardcopy Internal Chain)

Worklist Name : P4376N

Worklist ID : 184332

Department : Extraction

Date : 10-11-2024 08:08:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4376-01	OR-02-100924	Solid	EPH_NF	Cool 4 deg C	PSEG05	K21	10/09/2024	NJEPH
P4376-02	OR-02-100924-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	K21	10/09/2024	NJEPH
P4377-01	HD-01-100924	Solid	EPH_NF	Cool 4 deg C	PSEG05	K21	10/09/2024	NJEPH
P4377-02	HD-01-100924-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	K21	10/09/2024	NJEPH
P4385-02	SP-1	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-04	SP-2	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-06	SP-3	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-08	SP-4	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-10	SP-5	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-12	SP-6	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-14	SP-7	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-16	SP-8	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-18	SP-9	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH
P4385-20	SP-10	Solid	EPH_NF	Cool 4 deg C	SCHE03	K51	10/10/2024	NJEPH

Date/Time 10/11/24 9:50
Raw Sample Received by: RT (SOL 10g)
Raw Sample Relinquished by: SDCSM

Date/Time 10/11/24 10:20
Raw Sample Received by: SDCSM
Raw Sample Relinquished by: RT (SOL 10g)

Prep Standard - Chemical Standard Summary

Order ID : P4385

Test : EPH_NF

Prepbatch ID : PB164070,

Sequence ID/Qc Batch ID: FC101124AL,FE101224AL,

Standard ID :

EP2538,EP2543,PP23534,PP23538,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP23704,PP
23706,PP23712,

Chemical ID :

E2865,E3551,E3788,E3789,E3793,E3794,E3816,P12362,P12972,P13017,P13018,P13019,P13020,P13022,P13044,P1
3045,P13047,P13048,P13094,P13096,P13278,P13424,P13430,P13431,P13432,P13433,P13434,P13435,P13436,P134
42,P13444,P13447,P13448,P13451,P13452,P13453,P13454,P13455,P13456,P9826,V 11252,V14143,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024

FROM 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2543	10/04/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Rajesh Parikh 10/04/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
231	10 PPM GRO STD 1ST SOURCE	PP23534	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
07/30/2024								

FROM 0.11100ml of P9826 + 9.89000ml of V14143 = Final Quantity: 10.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3619	25 PPM AAA-TFT Surg	PP23538	07/29/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
07/30/2024								

FROM 0.10000ml of V11252 + 9.90000ml of V14143 = Final Quantity: 10.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	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

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic 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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
234	100 PPB ICC GRO STD	PP23704	09/24/2024	01/22/2025	Yogesh Patel	None	None	Ankita Jodhani
								10/01/2024

FROM 5.00000ml of W3112 + 0.02000ml of PP23538 + 0.05000ml of PP23534 = Final Quantity: 5.070 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1339	100 PPM NJEPH Surrogate Spike	PP23706	09/26/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani 10/01/2024
<u>FROM</u> 1.25000ml of P13018 + 1.25000ml of P13019 + 1.25000ml of P13020 + 1.25000ml of P13022 + 1.25000ml of P13044 + 1.25000ml of P13045 + 1.25000ml of P13047 + 1.25000ml of P13048 + 490.00000ml of E3788 = Final Quantity: 500.000 ml								

[illegible]

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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/01/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

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)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

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	04/10/2025	10/10/2024 / Rajesh	10/04/2024 / Rajesh	E3816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13018

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13019

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/26/2025	09/26/2024 / yogesh	12/21/2023 / Yogesh	P13022

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13044

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13045

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13047

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0200707	03/26/2025	09/26/2024 / yogesh	12/26/2023 / Yogesh	P13048

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	A0203911	03/30/2025	09/30/2024 / yogesh	01/12/2024 / Yogesh	P13094

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	03/30/2025	09/30/2024 / yogesh	01/12/2024 / Yogesh	P13096

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13424

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13430

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13431

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0211112	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13432

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13433

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13434

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13435

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	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13436

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13442

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13444

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13447

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13448

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13451

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0211254	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13452

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13453

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13454

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13455

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0207019	03/30/2025	09/30/2024 / yogesh	07/16/2024 / Yogesh	P13456

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0155991	01/25/2025	07/25/2024 / yogesh	09/11/2020 / DHAVAL	P9826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30068 / VOA Mix, a, a, a-trifluorotoluene 2500uq/ml, P&T methanol, 1ml	A0158026	05/31/2028	11/27/2023 / yogesh	09/11/2020 / DHAVAL	V11252

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

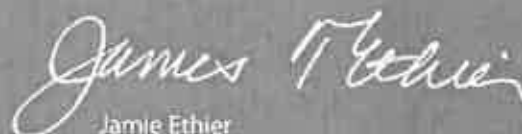
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	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


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
QUÍMICOS
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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO 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 foreign 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.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

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 ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3789



Jamie Croak
Director Quality Operations, Bioscience Products

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Acetone
CMOS

avantor™



Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result

For Microelectronic Use
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



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)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E3816

Rec'd by RP on 10/4/24

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Page 1 of 1

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 59.9753	µg/mL Gravimetric Unstressed Stressed

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/- 11.7645 +/- 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
Pxx-5 (cat.#10223)

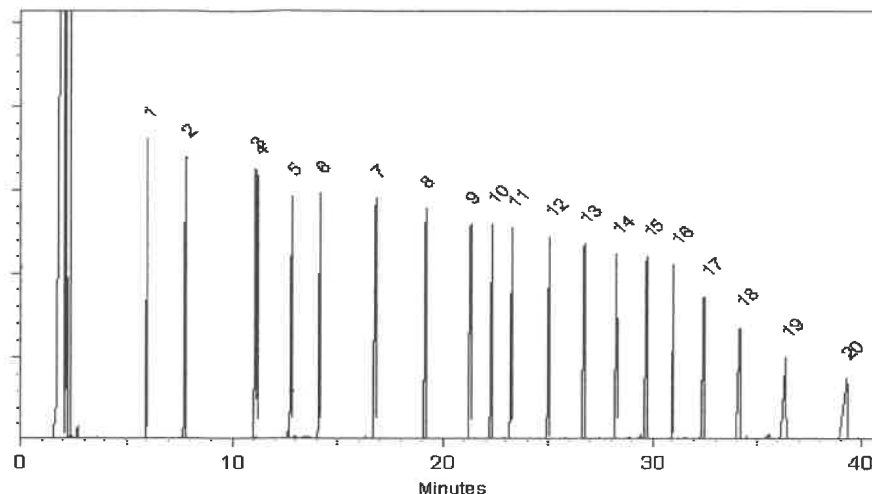
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31098 **Lot No.:** 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

P12960
↓
P12991 } Y.P.
12/21/2023

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:

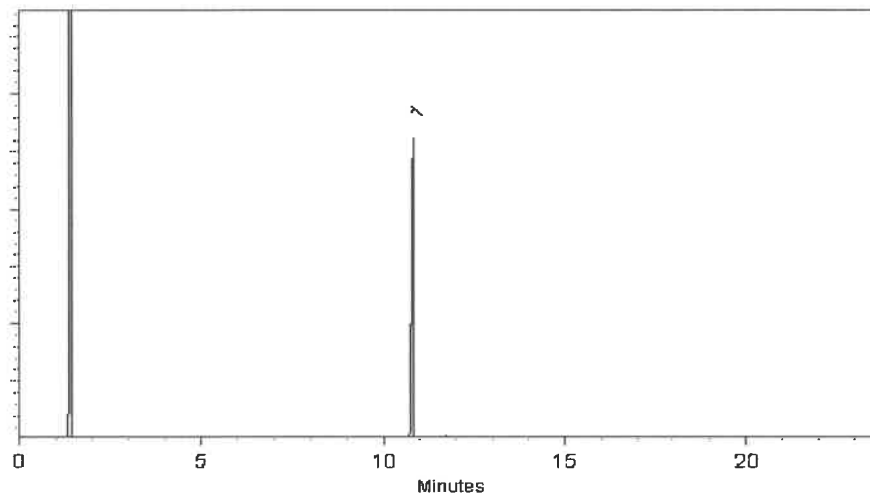
FID

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



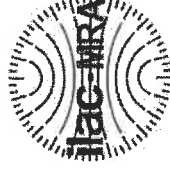
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 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

P12992 } Y.P.
↓
P13031 } 12/21/2023

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

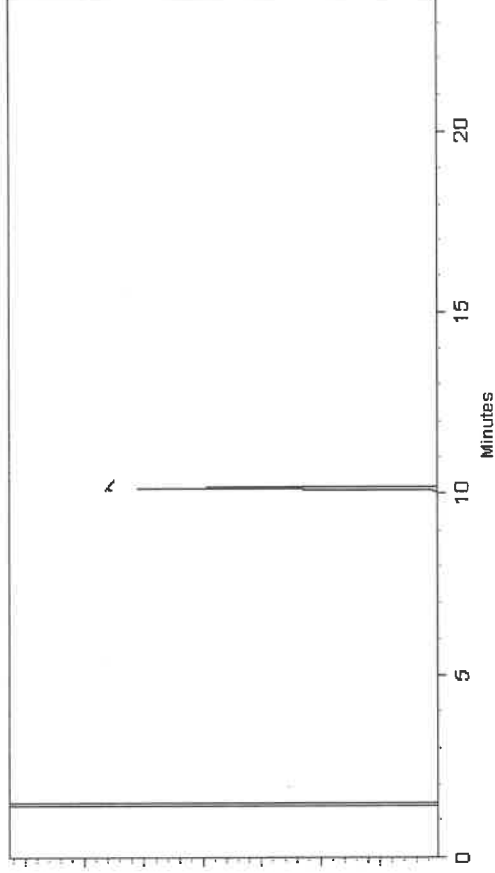
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



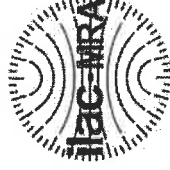
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31097 **Lot No.:** 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

P12992 } Y.P.
↓
P13031 } 12/21/2023

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

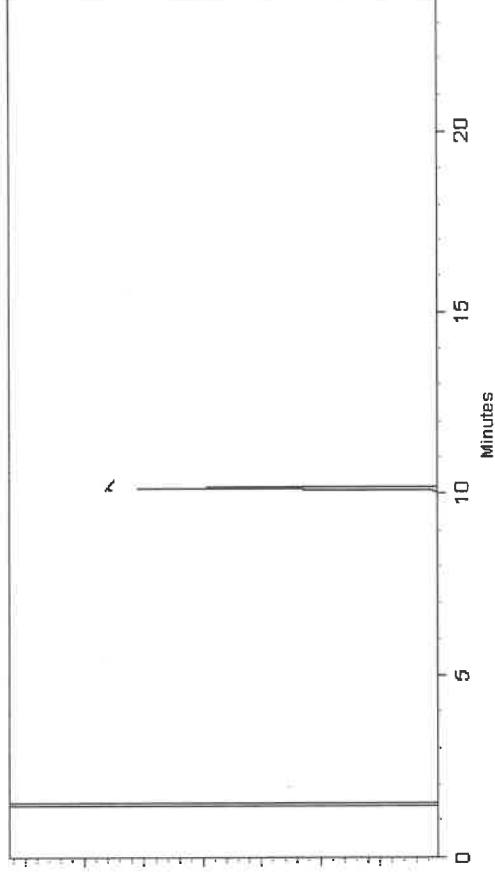
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



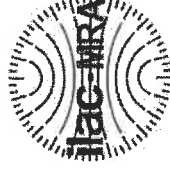
110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 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

P12992 } Y.P.
↓
P13031 } 12/21/2023

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

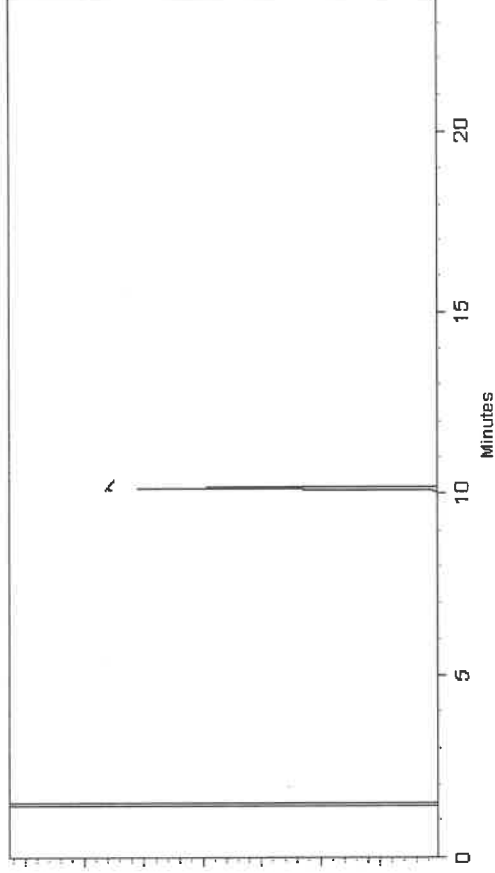
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



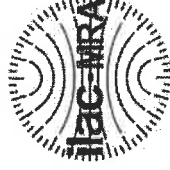
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Catalog No.: 31097 **Lot No.:** A0204177

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.)

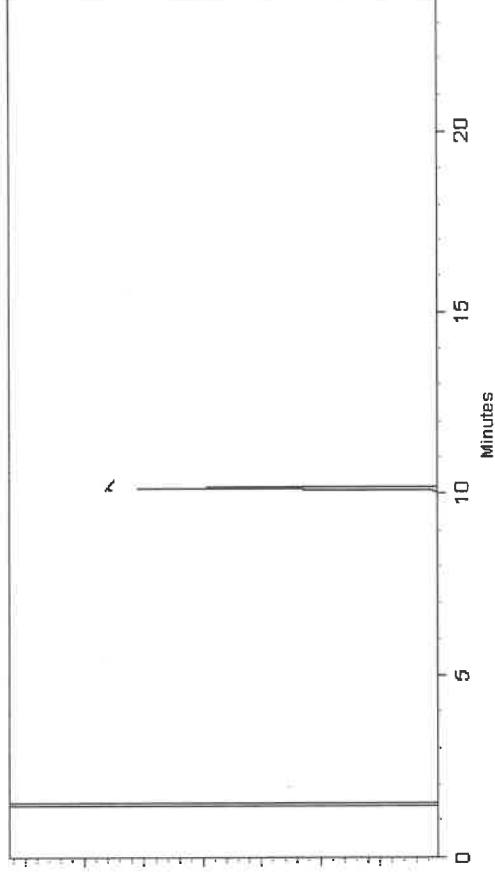
Inj. Temp:
250°C

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



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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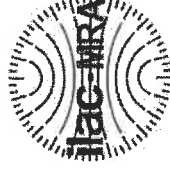
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Catalog No.: 31097 **Lot No.:** A0204177

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

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

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.)

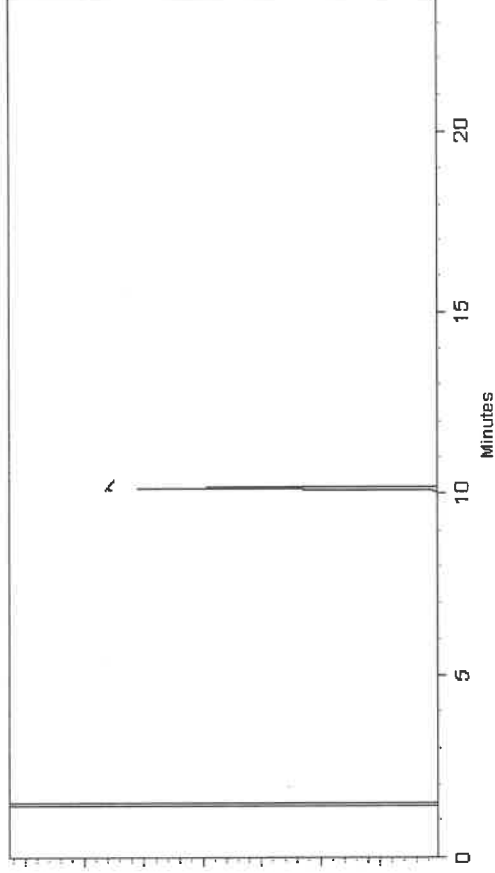
Inj. Temp:
250°C

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



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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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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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

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

P130hh
↓
P13051 } Y.B.
12/26/23

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:

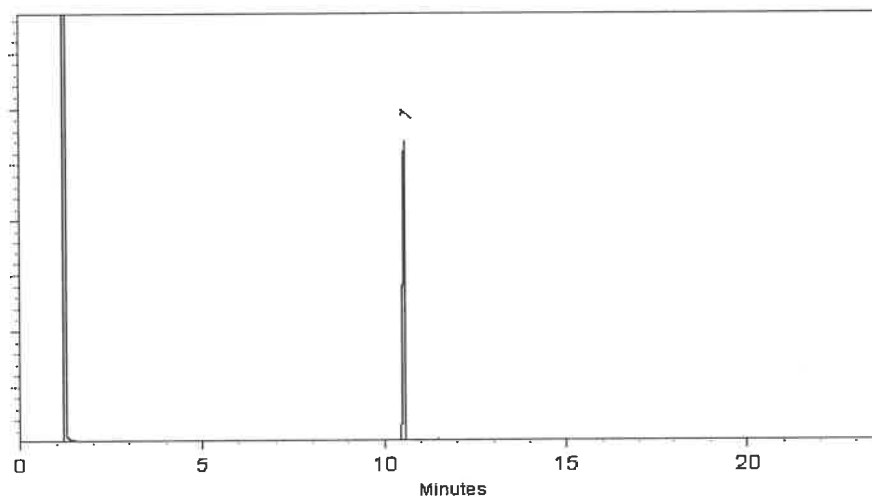
FID

Split Vent:

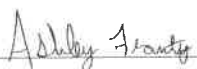
10 ml/min.

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

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

P130hh
2
P13051 } Y.B.
12/26/23

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
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Carrier Gas:

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Inj. Temp:

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Det. Temp:

330°C

Det. Type:

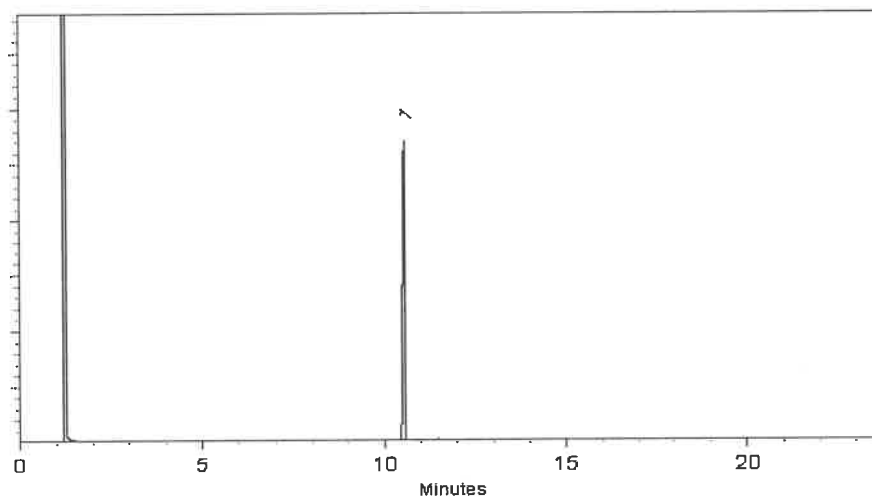
FID

Split Vent:

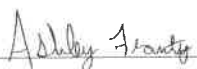
10 ml/min.

Inj. Vol

1µl



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Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


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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

P130hh
2
P13051 } Y.B.
12/26/23

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:

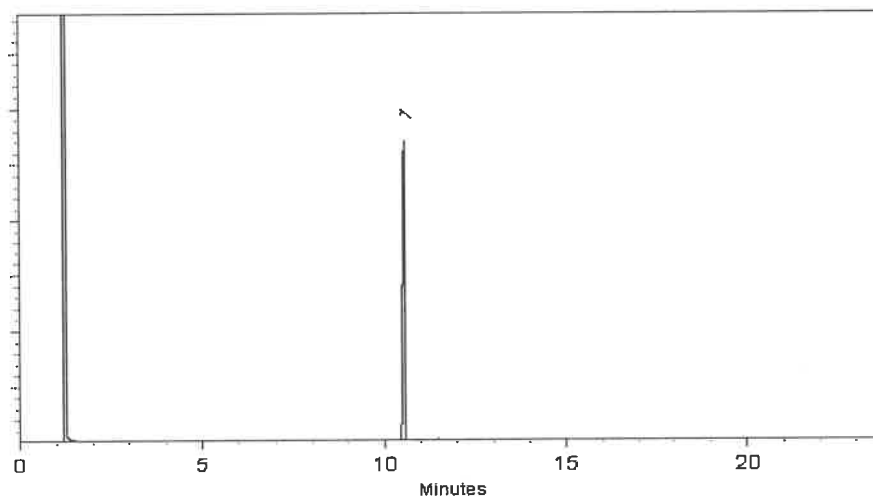
FID

Split Vent:

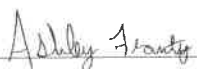
10 ml/min.

Inj. Vol

1µl



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Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

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Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Ship: Ambient

P130hh
2
P13051 } Y.B.
12/26/23

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.

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75°C (hold 1 min.) to 330°C
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Det. Temp:

330°C

Det. Type:

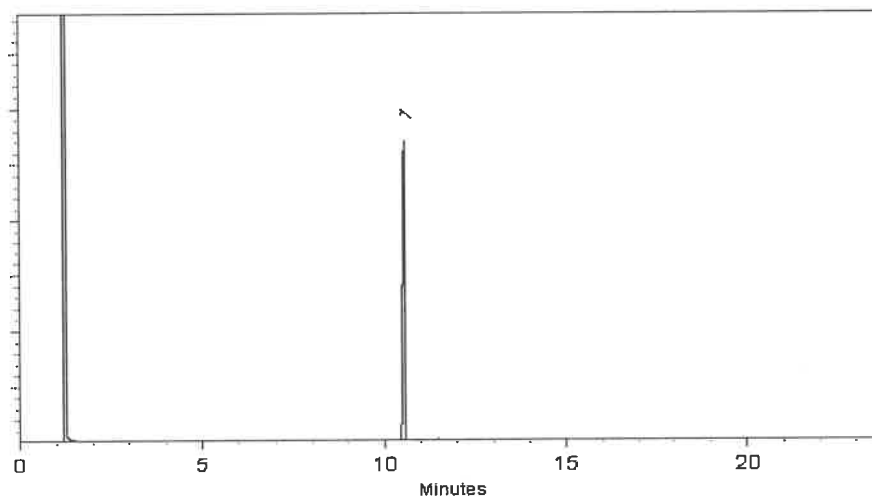
FID

Split Vent:

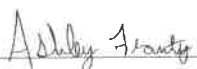
10 ml/min.

Inj. Vol

1µl



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Ashley Frantz - Quoting Technician

Date Mixed: 07-Aug-2023

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 10-Aug-2023

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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.:** 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

P13053 } Y.P.
↓
P13099 } 01/12/24

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%	200.0 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-Heneicosane (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

* 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:

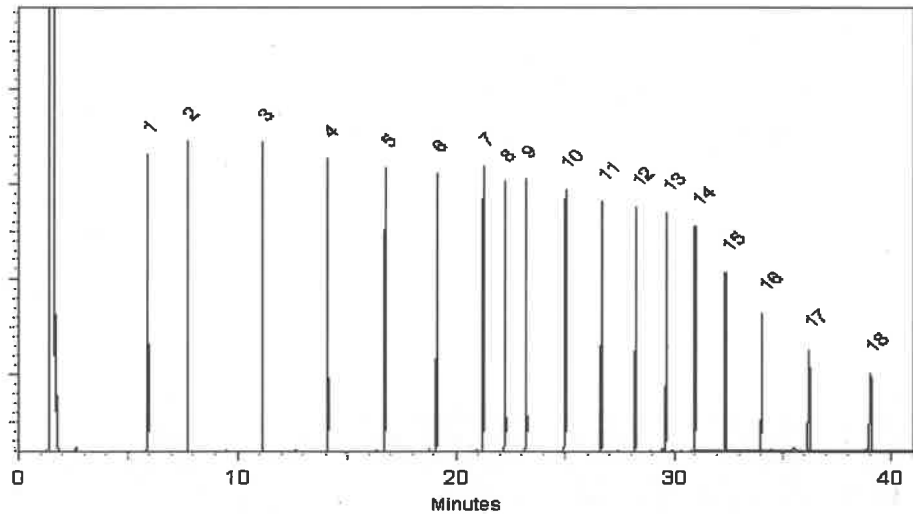
FID

Split Vent:

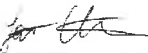
2 ml/min.

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

P13053 } Y.P.
↓
P13099 } 01/12/24

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%	200.0 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-Heneicosane (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

* 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:

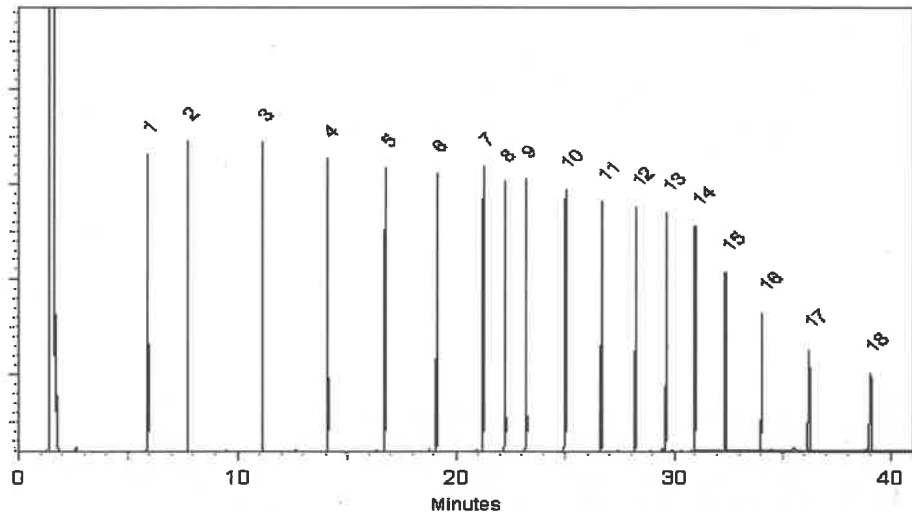
FID

Split Vent:

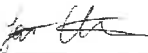
2 ml/min.

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

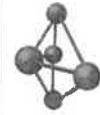
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	Lot Number	DIL	Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
		(RM#)														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)
1.	2-Methylnaphthalene	(0214)	MKB3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	583-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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 } Y-P.
2 }
P13h29 } 07/11/24.

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	MKQC3882	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	MKQC4814	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	MKQC9436	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-S (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

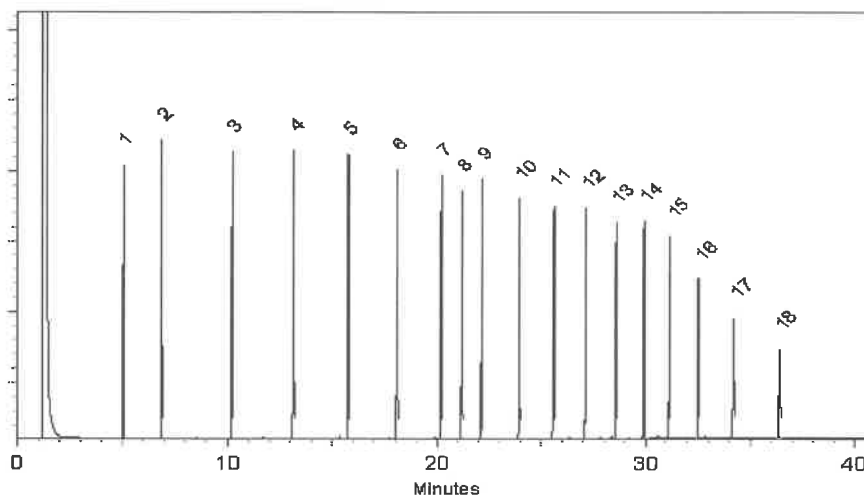
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fraga
Matt Fragaesi - Mix Technician

Date Mixed: 31-Jan-2024 **Balance Serial #** 1128353505

Dylan Murphy
Dylan 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

P13430 } Y-8.
↓
P13436 } 67116124

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-S (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

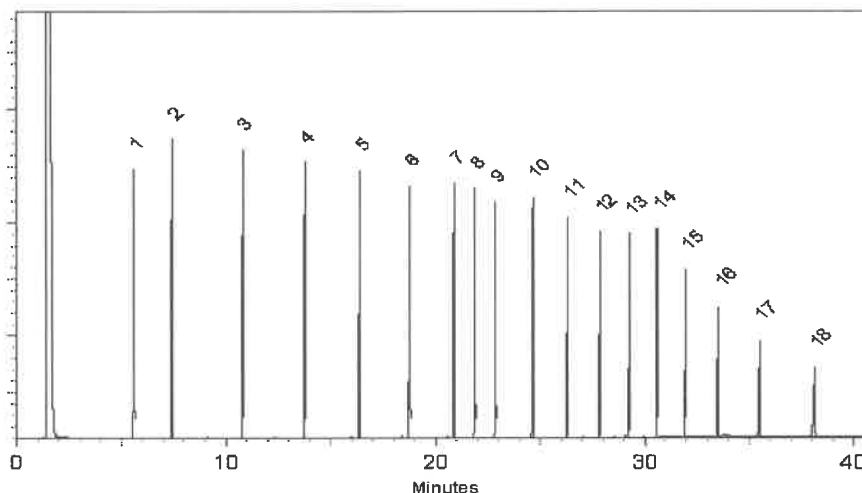
Inj. Temp:
250°C

Det. Temp:
330°C

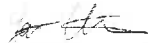
Det. Type:
FID

Split Vent:
2 ml/min.

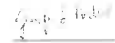
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

PIB430 } Y-8.
↓
PIB436 } 67116124

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-S (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

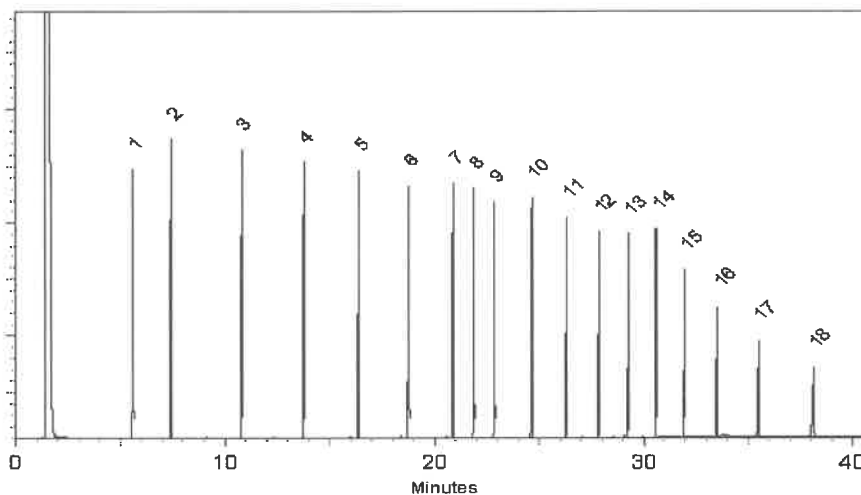
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

[Signature]
Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

[Signature]
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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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

P13430 } Y-8.
↓
P13436 } 67116124

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-S (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

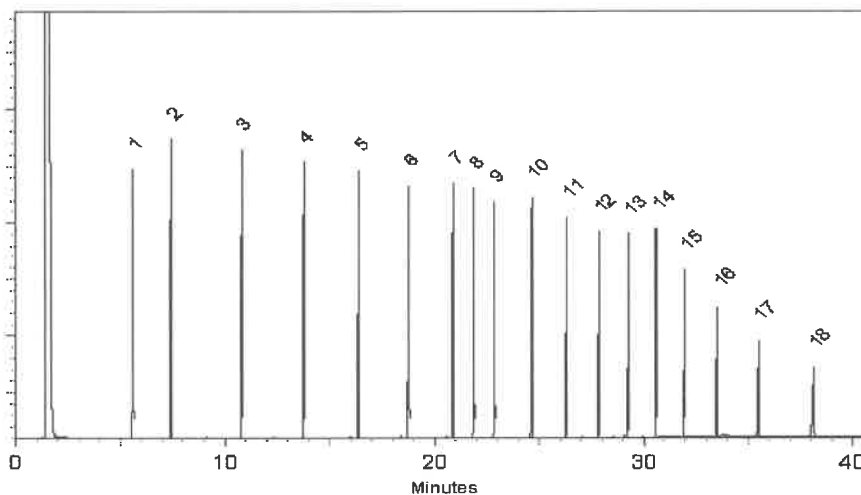
Inj. Temp:
250°C

Det. Temp:
330°C

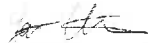
Det. Type:
FID

Split Vent:
2 ml/min.

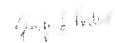
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

P13430 } Y-8.
↓
P13436 } 67116124

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-S (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

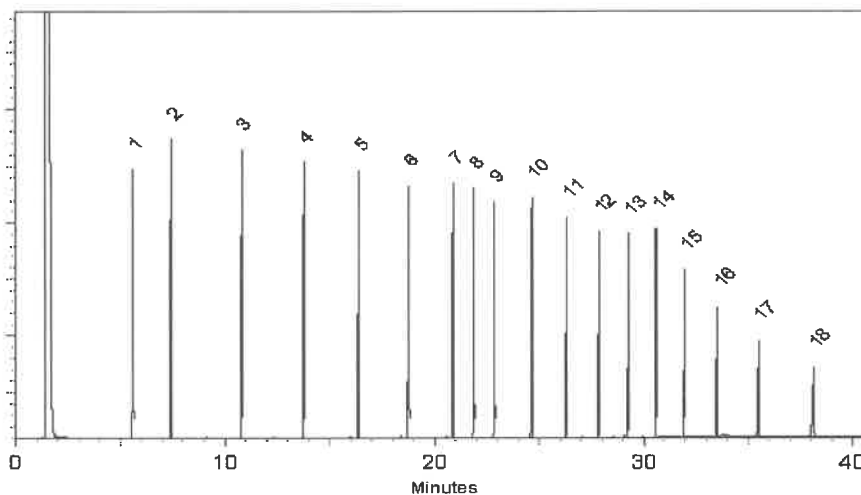
Inj. Temp:
250°C

Det. Temp:
330°C

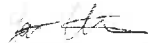
Det. Type:
FID

Split Vent:
2 ml/min.

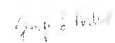
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

P13430 } Y-8.
↓
P13436 } 67116124

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-S (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

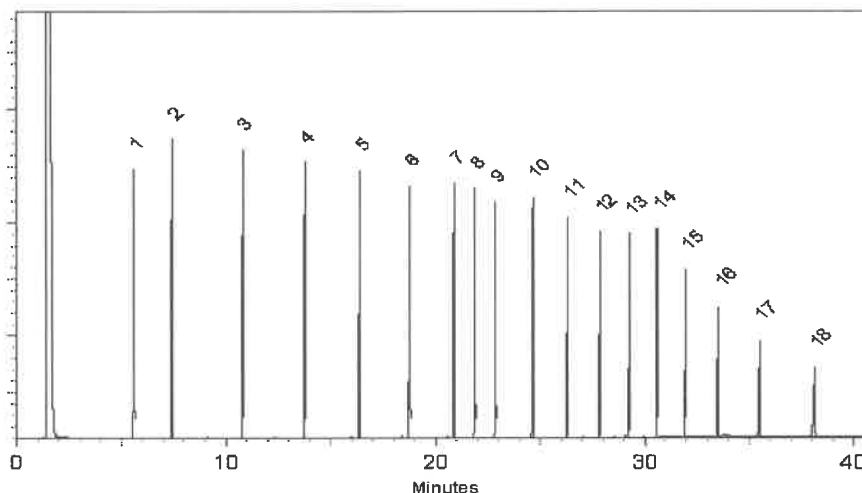
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

[Signature]
Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

[Signature]
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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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

P13430 } Y-8.
↓
P13436 } 67116124

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-S (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

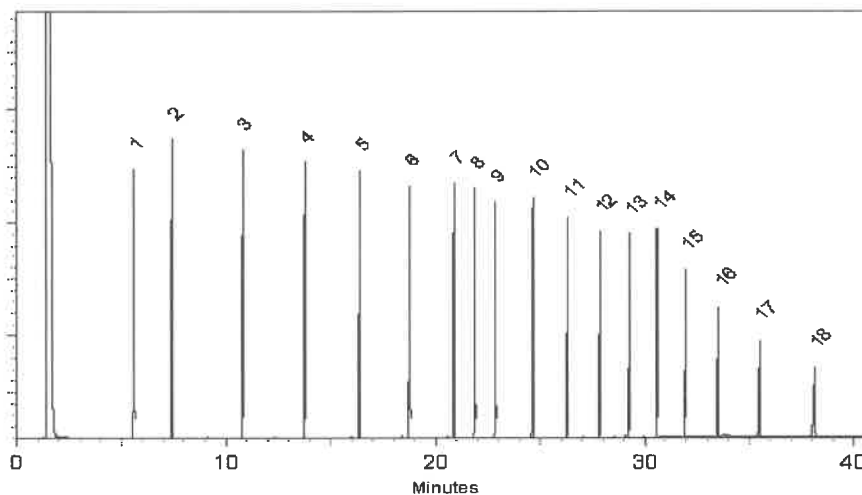
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

[Signature]
Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024 **Balance Serial #** 1128360905

[Signature]
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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

PIB430 } Y-8.
↓
PIB436 } 67116124

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-S (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

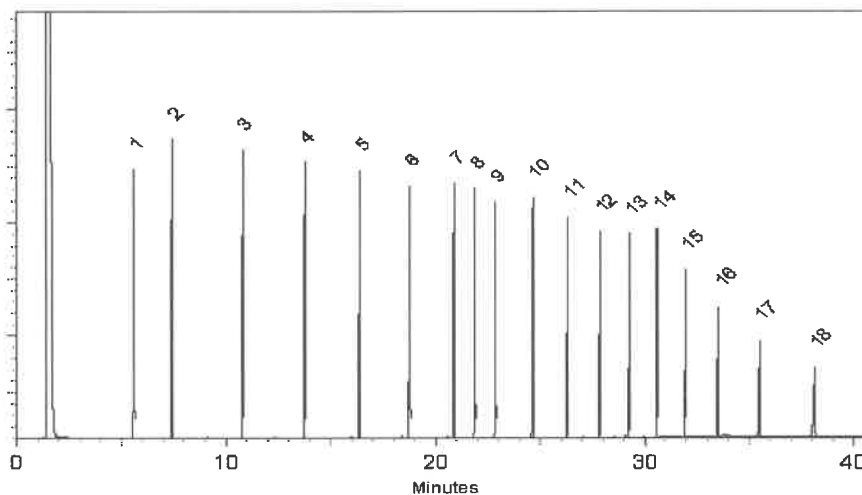
Inj. Temp:
250°C

Det. Temp:
330°C

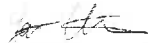
Det. Type:
FID

Split Vent:
2 ml/min.

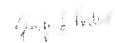
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
↓
P13452 } Y-P.
07/16/24.

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%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8 µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

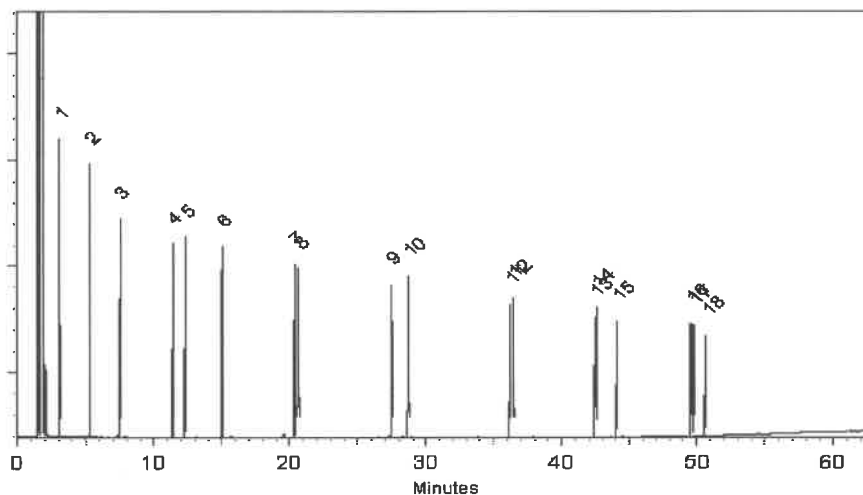
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
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P13452 } 7-P.
07/16/24

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%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8 µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

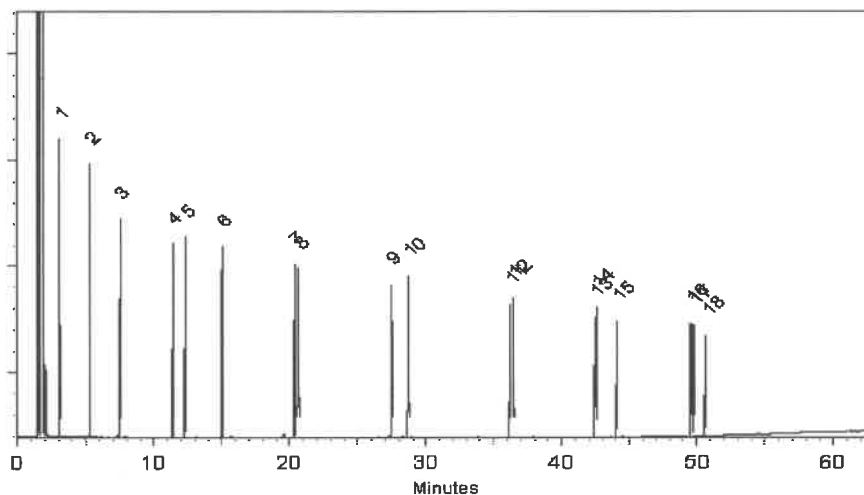
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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chromatographic plus



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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.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
↓
P13452 } 7-P.
07/16/24

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%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8 µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

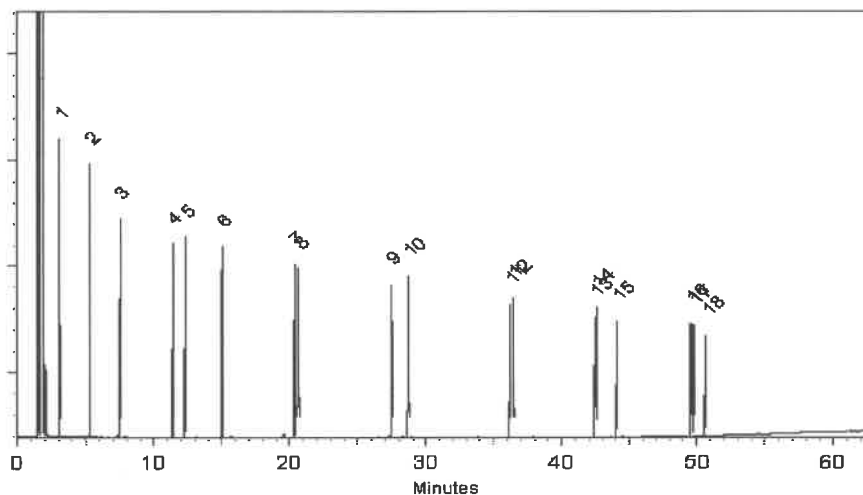
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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chromatographic plus



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Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
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P13452 } Y-P.
07/16/24

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%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
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12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
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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.)

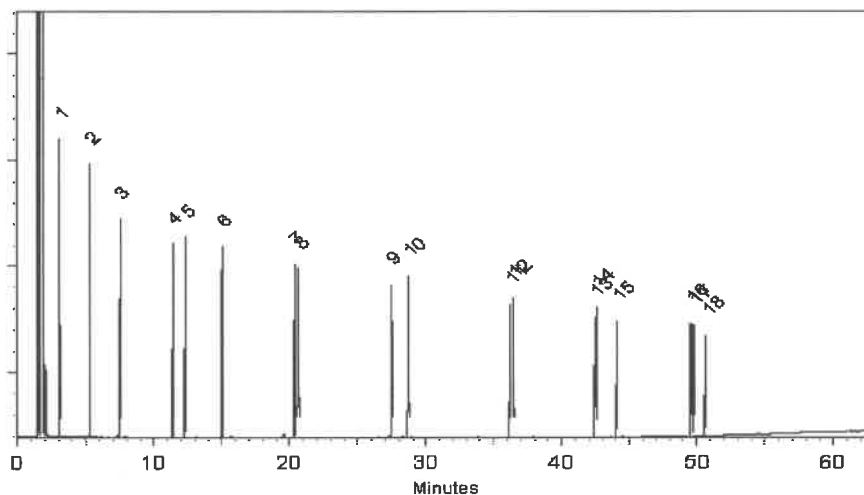
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

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Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
↓
P13452 } 7-P.
07/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
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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
@ 4°C/min. (hold 5 min.)

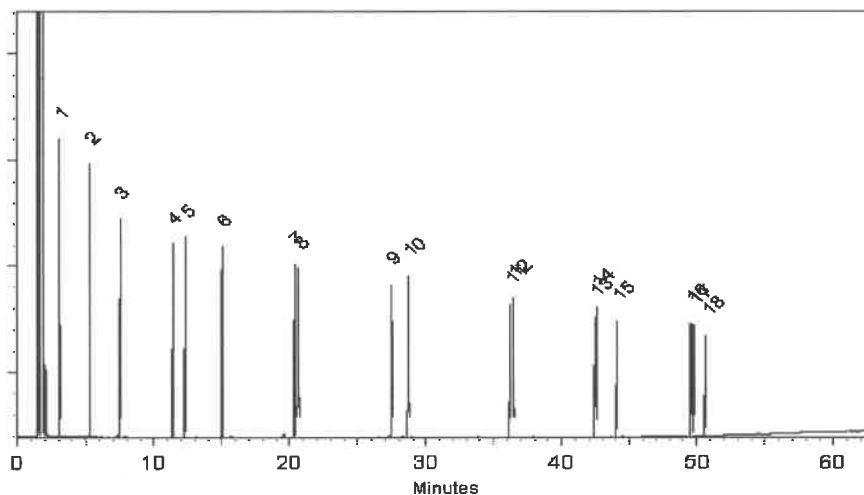
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0211254

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13437
↓
P13452 } Y-P.
07/16/24.

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%	200.0 µg/mL	+/- 9.0114
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0316
4	Acenaphthylene	208-96-8	214935L31M	98%	200.3 µg/mL	+/- 9.0255
5	Acenaphthene	83-32-9	MKCR7169	99%	202.0 µg/mL	+/- 9.1015
6	Fluorene	86-73-7	10241100	99%	201.2 µg/mL	+/- 9.0655
7	Phenanthrene	85-01-8	MKCS5188	99%	200.4 µg/mL	+/- 9.0294
8	Anthracene	120-12-7	MKCR0570	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.8 µg/mL	+/- 9.0474
10	Pyrene	129-00-0	BCCK2592	99%	201.2 µg/mL	+/- 9.0655
11	Benz(a)anthracene	56-55-3	I30012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP231206RSR	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	012013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.0 µg/mL	+/- 9.0114
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.8 µg/mL	+/- 9.0033

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240105ECS	99%	200.8 µg/mL	+/- 9.0474

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

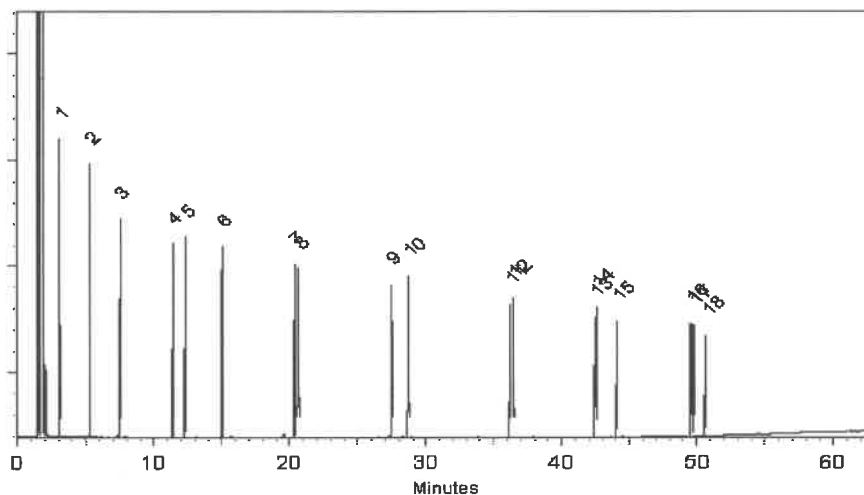
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye
Michael Maye - Operations Tech I

Date Mixed: 09-May-2024 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0207019

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13h53
↓
P13h56 } 7-P.
07/16/24

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%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4 µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5 µg/mL	+/- 9.0330

* 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:

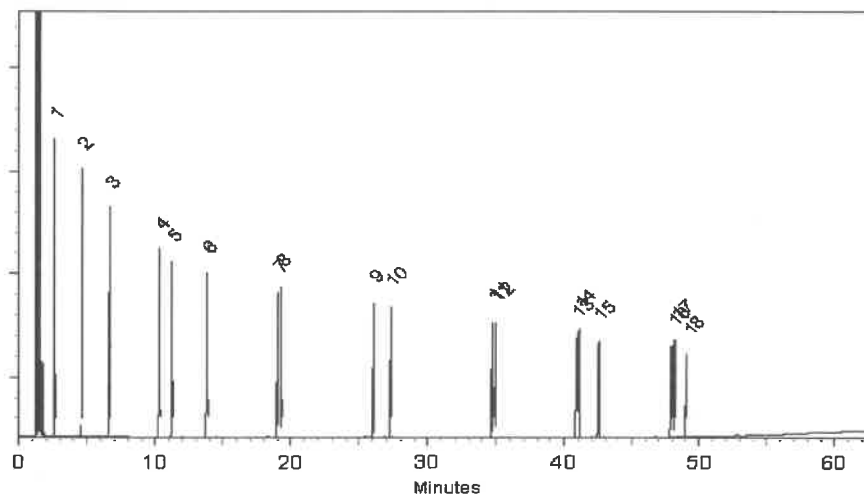
FID

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.

[Signature]
Laith Clemente - Operations Technician I

Date Mixed: 25-Jan-2024

Balance Serial # 1128360905

[Signature]
Dillon Murphy - Operations Technician I

Date Passed: 29-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0207019

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13h53
↓
P13h56 } 7-P.
07/16/24

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%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4 µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5 µg/mL	+/- 9.0330

* 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:

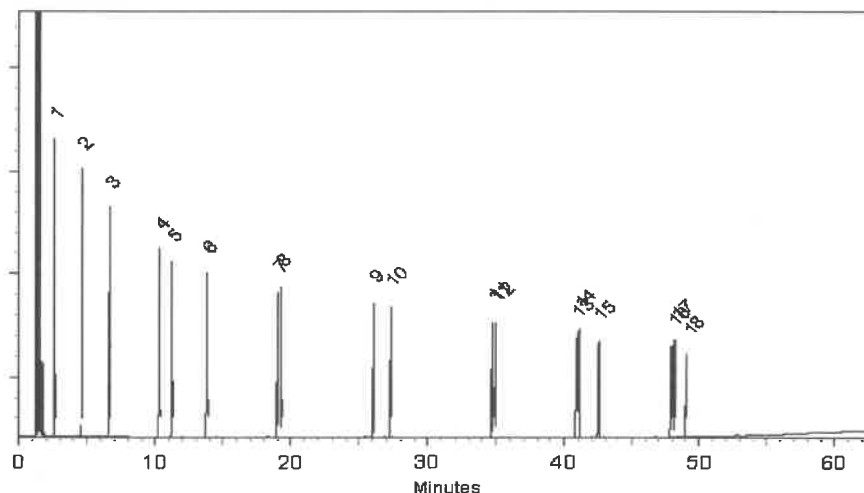
FID

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.

Laith Clemente
 Laith Clemente - Operations Technician I

Date Mixed: 25-Jan-2024

Balance Serial # 1128360905

Dylan Murphy
 Dylan Murphy - Operations Technician I

Date Passed: 29-Jan-2024

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0207019

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13h53
↓
P13h56 } 7-P.
07/16/24

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%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4 µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5 µg/mL	+/- 9.0330

* 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:

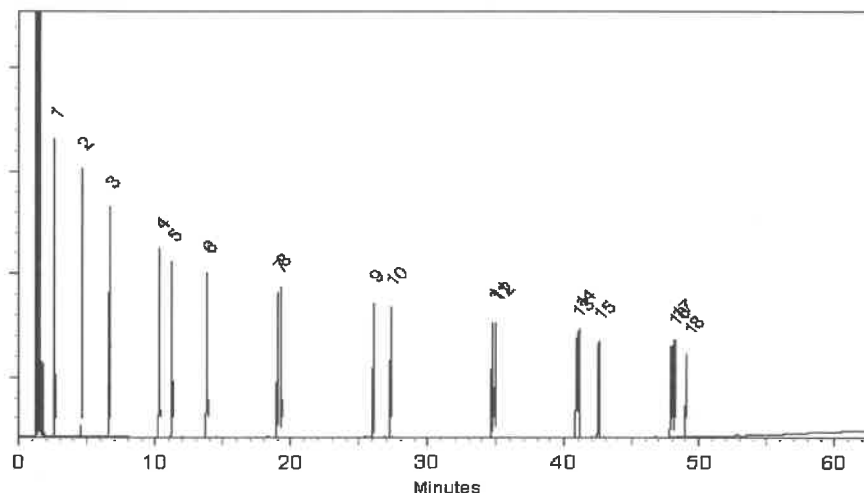
FID

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.

Laith Clemente
 Laith Clemente - Operations Technician I

Date Mixed: 25-Jan-2024

Balance Serial # 1128360905

Dylan Murphy
 Dylan Murphy - Operations Technician I

Date Passed: 29-Jan-2024

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543 **Lot No.:** A0207019

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13h53
↓
P13h56 } 7-P.
07/16/24

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%	200.6 µg/mL	+/- 9.0384
2	Naphthalene	91-20-3	STBL1057	99%	200.6 µg/mL	+/- 9.0384
3	2-Methylnaphthalene	91-57-6	STBK0259	96%	200.4 µg/mL	+/- 9.0299
4	Acenaphthylene	208-96-8	L10L	95%	200.7 µg/mL	+/- 9.0437
5	Acenaphthene	83-32-9	MKCR7169	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10241100	99%	200.4 µg/mL	+/- 9.0294
7	Phenanthrene	85-01-8	MKCQ2033	99%	200.5 µg/mL	+/- 9.0330
8	Anthracene	120-12-7	MKCR0570	99%	200.7 µg/mL	+/- 9.0438
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.6 µg/mL	+/- 9.0366
10	Pyrene	129-00-0	BCCG8479	98%	200.7 µg/mL	+/- 9.0449
11	Benz(a)anthracene	56-55-3	I20012022BAA	99%	200.8 µg/mL	+/- 9.0474
12	Chrysene	218-01-9	RP230601	99%	200.5 µg/mL	+/- 9.0330
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.6 µg/mL	+/- 9.0384
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.8 µg/mL	+/- 9.0456
15	Benzo(a)pyrene	50-32-8	O45GL	98%	200.6 µg/mL	+/- 9.0378
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0400

17	Dibenz(a,h)anthracene	53-70-3	ER032211-01	99%	200.4 µg/mL	+/- 9.0276
18	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	200.5 µg/mL	+/- 9.0330

* 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:

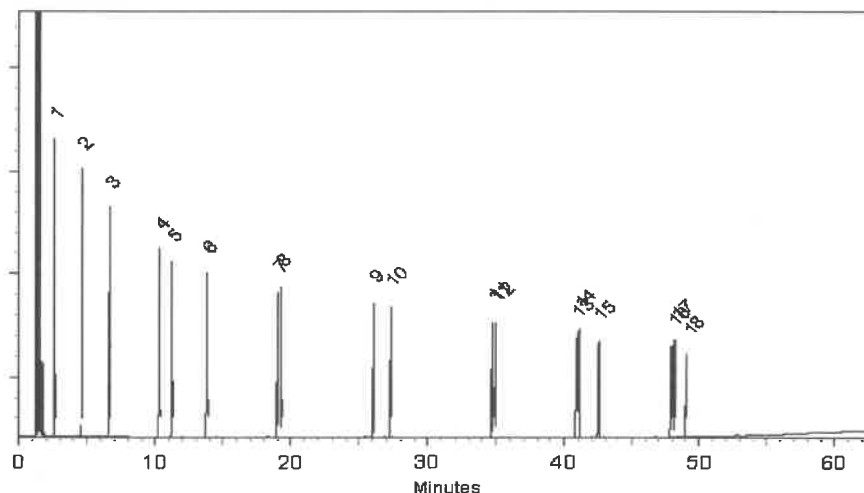
FID

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.

Laith Clemente
Laith Clemente - Operations Technician I

Date Mixed: 25-Jan-2024

Balance Serial # 1128360905

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 29-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P4385
2042012

CLIENT INFORMATION

COMPANY: ~~PSEG~~ ^{REPORT TO BE SENT TO:} Scheideler Excavating

ADDRESS: Briar Way

CITY: Monroe STATE: NJ ZIP:

ATTENTION: Jim Scheideler

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Scheideler Excavating

PROJECT NO.: LOCATION:

PROJECT MANAGER: Jim Scheideler

e-mail:

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO:

PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 TCL VOC 2 Cyanide 3 PCB 4 Pesticide 5 SVOC-TA BNA 20 6 Herbicide 7 Hex Chrom 8 Tri Chrom 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		E/P	E	E	E	E	E	E	E	E	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	SP-1	Soil		X	10.10.24	1111	4	X									0.0ppm	
2.	SP-1		X			1115	3		X	X	X	X	X	X	X	X		
3.	SP-2			X		1124	4	X										
4.	SP-2		X			1130	3		X	X	X	X	X	X	X	X		
5.	SP-3			X		1142	4	X										
6.	SP-3		X			1150	3		X	X	X	X	X	X	X	X		
7.	SP-4			X		1159	4	X										
8.	SP-4		X			1207	3		X	X	X	X	X	X	X	X		
9.	SP-5			X		1216	4	X										
10.	SP-5		X			1222	3		X	X	X	X	X	X	X	X		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. JT	DATE/TIME: 1335 10.10.24	RECEIVED BY: 1. [Signature]	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 3.6 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY: 2. [Signature]	Comments:
RELINQUISHED BY SAMPLER: 3. JT	DATE/TIME: 1500 10.10.24	RECEIVED BY: 3. [Signature]	Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____

CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number

P4385

2042011

CLIENT INFORMATION

COMPANY: Scheideler Excavating

ADDRESS: Briar Way

CITY: Monroe STATE: NJ ZIP:

ATTENTION: Jim Scheideler

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Scheideler Excavating

PROJECT NO.: LOCATION:

PROJECT MANAGER: Jim Scheideler

e-mail:

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO:

PO#:

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): _____ DAYS*

EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 TCL VOC
2 Cyanide
3 PCB
4 Pesticide
5 SVOC-TCL BWA 20
6 Herbicide
7 Hex chrom
8 Tri chrom
9

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E/P	E	E	E	E	E	E	E	E	
1.	SP-6	soil		x	10/10/24	1230	4	x									0.0 ppm
2.	SP-6		x			1238	3		x	x	x	x	x	x	x	x	
3.	SP-7			x		1249	4	x									
4.	SP-7		x			1255	3		x	x	x	x	x	x	x	x	
5.	SP-8			x		1303	4	x									
6.	SP-8		x			1310	3		x	x	x	x	x	x	x	x	
7.	SP-9			x		1318	4	x									
8.	SP-9		x			1323	3		x	x	x	x	x	x	x	x	
9.	SP-10			x		1330	4	x									
10.	SP-10		x			1335	3		x	x	x	x	x	x	x	x	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. JT	DATE/TIME: 1335 10.10.24	RECEIVED BY: 1. [Signature]	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.6 °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3. JT	DATE/TIME: 1500 10.10.24	RECEIVED BY: 3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

CHEMTECH

Environmental Laboratory

www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Scheideles
Excavating

Service Order #: _____

Work Order #: _____

Labor WBS #: _____

Facility/Site: BRIAR WAY

Site Address: BRIAR WAY

MAURICE TOWNSHIP NJ

Chemtech Order ID: _____

Sampler Name: IT

Client Project Coordinator & Phone: _____

Jim Scheideles

Page #: 1 of 1

Date: 10.10.24

Arrive Time: 1100

Depart Time: 01335

Waste Stream (circle one): drum / roll-off / Soil pile in-situ / linear construction / frac-tank

Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: NA

Temp (range): 3.6 °C PID Readings (range): 0.0 PPM Dimensions/CY: 150x80x18 ~ 8000 CY

Sample Description: Sandy soil, Hard Rocky soil

Field Observations: 1 Large soil pile

Grid/Area Composite Map:

QA Control # A3041134

← Halsey Reed Rd

Height varied - Averaged to ~18ft

Free of vegetation

Covered in vegetation

Camp 1

Removed vegetation with excavator.

150ft

80ft

9

10

8

7

6

4

3

2

5

Sampler Signature: IT

Client Signature: _____

Supervisor Review/Date: _____

Date/Time Arrived at Lab: _____



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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4385 SCHE03

Order Date : 10/10/2024 2:00:00 PM

Project Mgr :

Client Name : Scheideler Excavating Co. I

Project Name : Robbinsville

Report Type : Level 2

Client Contact : Jim Scheideler

Receive DateTime : 10/10/2024 12:00:00 AM

EDD Type : EXCEL NJCLEANUP

Invoice Name : Scheideler Excavating Co. I

Purchase Order :

Hard Copy Date :

Invoice Contact : Jim Scheideler

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4385-01	SP-1	Solid	10/10/2024	11:11	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-03	SP-2	Solid	10/10/2024	11:24	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-05	SP-3	Solid	10/10/2024	11:42	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-07	SP-4	Solid	10/10/2024	11:59	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-09	SP-5	Solid	10/10/2024	12:16	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-11	SP-6	Solid	10/10/2024	12:30	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-13	SP-7	Solid	10/10/2024	12:49	VOC-TCLVOA-10		8260D		10 Bus. Days
P4385-15	SP-8	Solid	10/10/2024	13:03	VOC-TCLVOA-10		8260D		10 Bus. Days



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4385	SCHE03	Order Date : 10/10/2024 2:00:00 PM	Project Mgr :
Client Name : Scheideler Excavating Co. I		Project Name : Robbinsville	Report Type : Level 2
Client Contact : Jim Scheideler		Receive DateTime : 10/10/2024 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Scheideler Excavating Co. I		Purchase Order : 15:00	Hard Copy Date :
Invoice Contact : Jim Scheideler			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4385-17	SP-9	Solid	10/10/2024	13:18	VOC-TCLVOA-10		8260D	10 Bus. Days	
P4385-19	SP-10	Solid	10/10/2024	13:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By :

Date / Time :

JT
10/10/24 1515

Received By :

Date / Time :

Sam
10/10/24 15:15 Rgt 6
P22

Storage Area : VOA Refridgerator Room