

Cover Page

Order ID : Q1542

Project ID : 248 Union St., Lodi

Client : Sciacca General Contractors, LLC

Lab Sample Number

Q1542-01
Q1542-02
Q1542-03
Q1542-04
Q1542-05
Q1542-06
Q1542-07
Q1542-08

Client Sample Number

WASTE
VOC
1
2
3
4
5
6

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

Signature : _____

Date: 3/17/2025

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 #: Q1542

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: PRADIP PRAJAPATI

Date: 03/17/2025

LAB CHRONICLE

OrderID:	Q1542	OrderDate:	3/11/2025 11:00:00 AM
Client:	Sciacca General Contractors, LLC	Project:	248 Union St., Lodi
Contact:	Rosanne Scirica	Location:	--Select--,F11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1542-01	WASTE	SOIL			03/10/25			03/11/25
			TPH GC	8015D		03/12/25	03/12/25	
Q1542-03	1	Solid			03/10/25			03/11/25
			EPH_F2	NJEPH		03/12/25	03/12/25	
Q1542-04	2	Solid			03/10/25			03/11/25
			EPH_F2	NJEPH		03/12/25	03/12/25	
Q1542-05	3	Solid			03/10/25			03/11/25
			EPH_F2	NJEPH		03/12/25	03/12/25	
Q1542-06	4	Solid			03/10/25			03/11/25
			EPH_F2	NJEPH		03/12/25	03/12/25	
Q1542-07	5	Solid			03/10/25			03/11/25
			EPH_F2	NJEPH		03/12/25	03/12/25	
Q1542-08	6	Solid			03/10/25			03/11/25
			EPH_F2	NJEPH		03/12/25	03/12/25	



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: SCIA01
Lab Code: CHEM CASE No.: Q1542 SAS No.: Q1542 SDG No.: Q1542
Run Number: FE031225AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB167096BL	79	76		0
PB167096BS	81	76		0
PB167096BSD	82	77		0
1	65	64		0
2	84	79		0
3	66	63		0
4	63	59		0
5	75	71		0
5MS	65	60		0
5MSD	62	58		0
6	71	67		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_F2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Sample No : Q1542-07MS **Datafile:** FE052767.D
Client ID : 5MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	34.7	59.1	78.1	55		(40-140)
Aliphatic C9-C28	115.6	27.8	106	68		(40-140)

SOLID EPH_F2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Sample No : Q1542-07MSD **Datafile:** FE052768.D
Client ID : 5MSD

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	34.6	59.1	77.9	54		0.92 (40-140) 25
Aliphatic C9-C28	115.4	27.8	105	68		0.7 (40-140) 25

SOLID EPH_F2 LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Sample No : PB167096BS **Datafile:** FE052760.D
Client ID : PB167096BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	30.3	101		(40-140)
Aliphatic C9-C28	99.9	86.2	87		(40-140)

SOLID EPH_F2 LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1542 **SAS No :** Q1542 **SDG No:** Q1542
Sample No : PB167096BSD **Datafile:** FE052761.D
Client ID : PB167096BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	30.6	102		1.1 (40-140)	50
Aliphatic C9-C28	99.9	85.1	86		1.1 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167096BL

Lab Name: CHEMTECH

Contract: SCIA01

Lab Code: CHEM Case No.: Q1542

SAS No.: Q1542 SDG NO.: Q1542

Instrument ID: FID_E

Lab Sample ID: PB167096BL

Matrix: (soil/water) Solid

Date Extracted: 3/12/2025 8:55:00 A

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB167096BS	PB167096BS
1	Q1542-03
2	Q1542-04
3	Q1542-05
PB167096BSD	PB167096BSD
4	Q1542-06
5	Q1542-07
6	Q1542-08
5MS	Q1542-07MS
5MSD	Q1542-07MSD

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	1	SDG No.:	Q1542
Lab Sample ID:	Q1542-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 13:38	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	4.93		1	2.02	4.68	mg/kg	FE052762.D
Total EPH	Total EPH	4.93			2.02	4.68	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	1	SDG No.:	Q1542
Lab Sample ID:	Q1542-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.1
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052762.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.93		2.02	4.68	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.64		2.11	2.35	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.7		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.0		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-03	Acq On:	12 Mar 2025 13:38
Client Sample ID:	1	Operator:	YP\AJ
Data file:	FE052762.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	3.148	6.790	537104	3.444	300	ug/ml
Aliphatic C12-C16	6.791	10.243	1644687	10.813	200	ug/ml
Aliphatic C16-C21	10.244	13.621	2768399	18.891	300	ug/ml
Aliphatic C21-C28	13.622	17.293	4748732	33.336	400	ug/ml
Aliphatic C28-C40	17.294	22.210	14096437	110.483	600	ug/ml
Aliphatic EPH	3.148	22.210	23795359	176.967		ug/ml
ortho-Terphenyl (SURR)	11.908	11.908	5398815	32.02		ug/ml
1-chlorooctadecane (SURR)	13.353	13.353	3968594	32.68		ug/ml
Aliphatic C9-C28	3.148	17.293	9698922	66.484	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052762.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 13:38
 Operator : YP\AJ
 Sample : Q1542-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 1

Integration File: autoint1.e
 Quant Time: Mar 13 03:55:48 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.908	5398815	32.024 ug/ml
Spiked Amount	50.000	Recovery	= 64.05%
12) S 1-chlorooctadecane (S...	13.353	3968594	32.683 ug/ml
Spiked Amount	50.000	Recovery	= 65.37%

Target Compounds

(f)=RT Delta > 1/2 Window

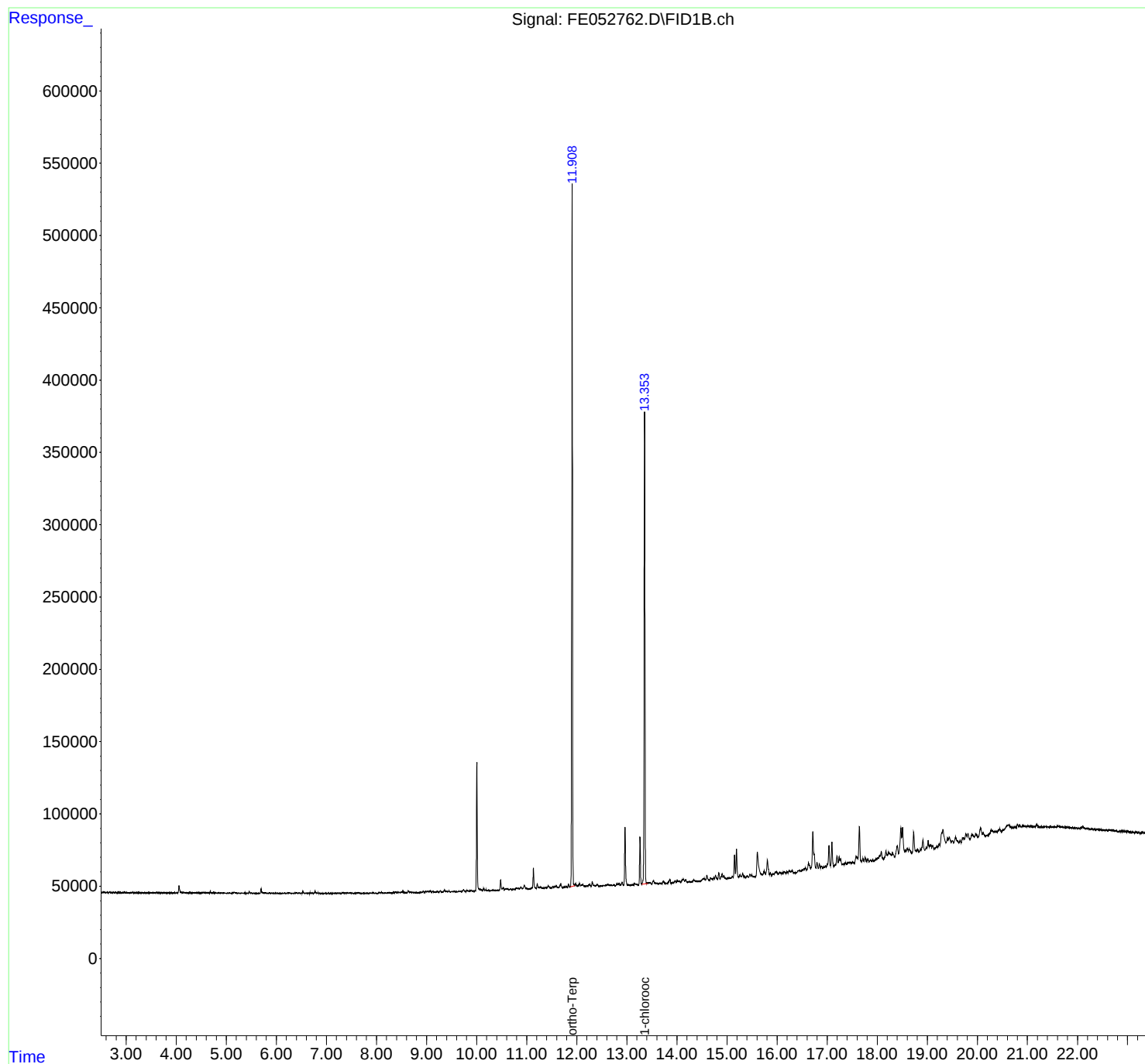
(m)=manual int.

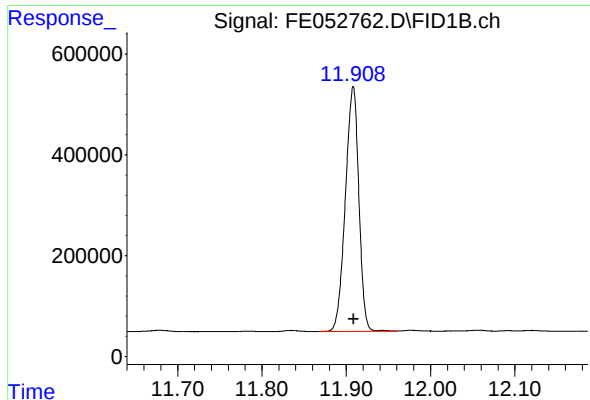
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052762.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 13:38
Operator : YP\AJ
Sample : Q1542-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
1

Integration File: autoint1.e
Quant Time: Mar 13 03:55:48 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

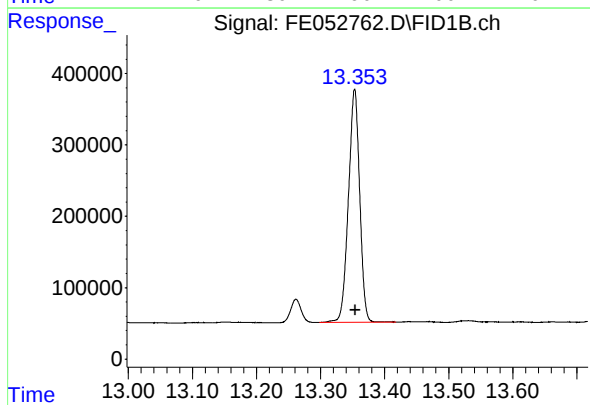




#9 ortho-Terphenyl (SURR)

R.T.: 11.908 min
Delta R.T.: 0.000 min
Response: 5398815
Conc: 32.02 ug/ml

Instrument :
FID_E
ClientSampleId :
1



#12 1-chlorooctadecane (SURR)

R.T.: 13.353 min
Delta R.T.: 0.000 min
Response: 3968594
Conc: 32.68 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052762.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 13:38
 Sample : Q1542-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.832	2.804	2.852	BV	113	1192	0.02%	0.004%
2	2.881	2.852	2.924	PV	252	5819	0.11%	0.017%
3	2.938	2.924	2.952	VV	206	2087	0.04%	0.006%
4	2.965	2.952	2.974	VV	281	2467	0.05%	0.007%
5	2.984	2.974	3.031	VV	291	4091	0.08%	0.012%
6	3.038	3.031	3.088	VV	61	1719	0.03%	0.005%
7	3.121	3.088	3.158	PV	260	5401	0.10%	0.016%
8	3.168	3.158	3.195	VV	165	1837	0.03%	0.006%
9	3.208	3.195	3.228	VV	105	896	0.02%	0.003%
10	3.247	3.228	3.388	VV	202	5260	0.10%	0.016%
11	3.425	3.388	3.461	VV	114	2767	0.05%	0.008%
12	3.477	3.461	3.492	VV	83	1565	0.03%	0.005%
13	3.534	3.492	3.581	VV	271	7397	0.14%	0.022%
14	3.606	3.581	3.639	VV	406	6706	0.12%	0.020%
15	3.646	3.639	3.678	VV	125	1732	0.03%	0.005%
16	3.703	3.678	3.760	VV	190	5143	0.09%	0.015%
17	3.782	3.760	3.808	VV	171	3350	0.06%	0.010%
18	3.818	3.808	3.854	VV	142	2772	0.05%	0.008%
19	3.861	3.854	3.944	VV	120	3794	0.07%	0.011%
20	3.967	3.944	4.023	VV	334	6226	0.11%	0.019%
21	4.056	4.023	4.135	VV	5168	83300	1.53%	0.250%
22	4.153	4.135	4.199	VV	448	11117	0.20%	0.033%
23	4.230	4.199	4.260	VV	319	8466	0.16%	0.025%
24	4.278	4.260	4.328	VV	440	10626	0.20%	0.032%
25	4.348	4.328	4.360	VV	218	3583	0.07%	0.011%
26	4.374	4.360	4.491	VV	254	13565	0.25%	0.041%
27	4.510	4.491	4.523	VV	457	5967	0.11%	0.018%
28	4.537	4.523	4.574	VV	463	10542	0.19%	0.032%
29	4.590	4.574	4.611	VV	432	7194	0.13%	0.022%
30	4.622	4.611	4.654	VV	346	6704	0.12%	0.020%
31	4.681	4.654	4.717	VV	911	15872	0.29%	0.048%
32	4.732	4.717	4.758	VV	330	6408	0.12%	0.019%
33	4.764	4.758	4.825	VV	280	7330	0.13%	0.022%
34	4.836	4.825	4.849	VV	197	2597	0.05%	0.008%
35	4.855	4.849	4.865	VV	174	1427	0.03%	0.004%
36	4.899	4.865	4.968	VV	256	11151	0.20%	0.034%

					rteres			
37	4.979	4.968	5.003	VV	214	2926	0.05%	0.009%
38	5.014	5.003	5.042	VV	225	3113	0.06%	0.009%
39	5.067	5.042	5.083	VV	263	3808	0.07%	0.011%
40	5.091	5.083	5.109	VV	138	1525	0.03%	0.005%
41	5.157	5.109	5.214	VV	633	20298	0.37%	0.061%
42	5.218	5.214	5.258	VV	216	4164	0.08%	0.013%
43	5.266	5.258	5.283	VV	158	1889	0.03%	0.006%
44	5.298	5.283	5.311	VV	118	1781	0.03%	0.005%
45	5.335	5.311	5.437	VV	235	8873	0.16%	0.027%
46	5.459	5.437	5.488	VV	1440	18670	0.34%	0.056%
47	5.496	5.488	5.578	VV	298	7448	0.14%	0.022%
48	5.589	5.578	5.631	VV	138	2318	0.04%	0.007%
49	5.655	5.631	5.665	PV	312	3559	0.07%	0.011%
50	5.694	5.665	5.760	VV	3202	51875	0.95%	0.156%
51	5.771	5.760	5.802	VV	367	6503	0.12%	0.020%
52	5.848	5.802	5.881	VV	279	9114	0.17%	0.027%
53	5.912	5.881	5.931	VV	242	5379	0.10%	0.016%
54	5.945	5.931	5.958	VV	196	2729	0.05%	0.008%
55	5.983	5.958	6.038	VV	290	8986	0.16%	0.027%
56	6.041	6.038	6.076	VV	205	3077	0.06%	0.009%
57	6.106	6.076	6.118	VV	159	2969	0.05%	0.009%
58	6.130	6.118	6.154	VV	215	3553	0.07%	0.011%
59	6.164	6.154	6.184	VV	183	2522	0.05%	0.008%
60	6.228	6.184	6.311	VV	592	17751	0.33%	0.053%
61	6.331	6.311	6.358	VV	179	3875	0.07%	0.012%
62	6.402	6.358	6.438	VV	699	13915	0.26%	0.042%
63	6.454	6.438	6.503	VV	359	7591	0.14%	0.023%
64	6.529	6.503	6.570	VV	1113	17976	0.33%	0.054%
65	6.580	6.570	6.677	VV	257	11941	0.22%	0.036%
66	6.692	6.677	6.718	VV	349	4865	0.09%	0.015%
67	6.725	6.718	6.736	VV	132	1037	0.02%	0.003%
68	6.772	6.736	6.824	VV	1471	25780	0.47%	0.077%
69	6.834	6.824	6.938	VV	343	8043	0.15%	0.024%
70	6.949	6.938	6.953	VV	71	515	0.01%	0.002%
71	6.971	6.953	6.997	VV	193	2487	0.05%	0.007%
72	7.034	6.997	7.065	PV	145	2641	0.05%	0.008%
73	7.104	7.065	7.128	PV	183	3072	0.06%	0.009%
74	7.159	7.128	7.167	VV	125	2247	0.04%	0.007%
75	7.198	7.167	7.211	VV	137	3225	0.06%	0.010%
76	7.234	7.211	7.253	VV	239	4693	0.09%	0.014%
77	7.268	7.253	7.298	VV	192	4197	0.08%	0.013%
78	7.327	7.298	7.350	VV	520	8957	0.16%	0.027%
79	7.368	7.350	7.391	VV	399	6379	0.12%	0.019%
80	7.414	7.391	7.450	VV	471	8838	0.16%	0.027%
81	7.464	7.450	7.485	VV	463	5310	0.10%	0.016%
82	7.510	7.485	7.547	VV	408	7757	0.14%	0.023%
83	7.557	7.547	7.604	VV	203	4799	0.09%	0.014%
84	7.641	7.604	7.686	VV	613	11855	0.22%	0.036%
85	7.705	7.686	7.744	VV	133	2834	0.05%	0.009%
86	7.763	7.744	7.794	VV	173	3144	0.06%	0.009%
87	7.819	7.794	7.848	VV	168	3192	0.06%	0.010%
88	7.866	7.848	7.897	PV	148	2761	0.05%	0.008%
89	7.927	7.897	7.978	VV	480	8624	0.16%	0.026%

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90	7.982	7.978	8.009	VV	122	956	0.02%	0.003%
91	8.051	8.009	8.079	PV	722	12304	0.23%	0.037%
92	8.097	8.079	8.121	VV	760	10840	0.20%	0.033%
93	8.132	8.121	8.148	VV	208	2840	0.05%	0.009%
94	8.172	8.148	8.193	VV	204	3661	0.07%	0.011%
95	8.217	8.193	8.237	VV	266	3896	0.07%	0.012%
96	8.253	8.237	8.267	VV	289	3381	0.06%	0.010%
97	8.276	8.267	8.310	VV	249	4003	0.07%	0.012%
98	8.343	8.310	8.362	VV	484	8342	0.15%	0.025%
99	8.382	8.362	8.403	VV	796	11740	0.22%	0.035%
100	8.420	8.403	8.432	VV	582	7394	0.14%	0.022%
101	8.447	8.432	8.462	VV	633	8532	0.16%	0.026%
102	8.491	8.462	8.506	VV	685	14109	0.26%	0.042%
103	8.526	8.506	8.608	VV	1378	27459	0.50%	0.082%
104	8.634	8.608	8.664	VV	1372	24984	0.46%	0.075%
105	8.681	8.664	8.698	VV	636	10246	0.19%	0.031%
106	8.715	8.698	8.744	VV	591	10270	0.19%	0.031%
107	8.752	8.744	8.801	VV	347	6757	0.12%	0.020%
108	8.808	8.801	8.838	VV	104	1479	0.03%	0.004%
109	8.888	8.838	8.901	PV	329	5573	0.10%	0.017%
110	8.931	8.901	8.951	VV	1134	16831	0.31%	0.051%
111	8.984	8.951	8.995	VV	798	14444	0.27%	0.043%
112	9.013	8.995	9.035	VV	943	19241	0.35%	0.058%
113	9.046	9.035	9.053	VV	788	7843	0.14%	0.024%
114	9.070	9.053	9.104	VV	1094	22567	0.41%	0.068%
115	9.123	9.104	9.163	VV	739	15360	0.28%	0.046%
116	9.176	9.163	9.192	VV	417	5753	0.11%	0.017%
117	9.213	9.192	9.241	VV	782	12626	0.23%	0.038%
118	9.275	9.241	9.328	VV	1216	22655	0.42%	0.068%
119	9.357	9.328	9.401	VV	1426	29981	0.55%	0.090%
120	9.403	9.401	9.427	VV	530	4899	0.09%	0.015%
121	9.448	9.427	9.472	VV	882	10931	0.20%	0.033%
122	9.505	9.472	9.526	PV	276	5618	0.10%	0.017%
123	9.556	9.526	9.620	VV	592	13030	0.24%	0.039%
124	9.641	9.620	9.678	VV	362	6656	0.12%	0.020%
125	9.695	9.678	9.704	VV	158	2152	0.04%	0.006%
126	9.731	9.704	9.778	VV	1065	26266	0.48%	0.079%
127	9.806	9.778	9.848	VV	673	16155	0.30%	0.049%
128	9.866	9.848	9.877	VV	592	7342	0.13%	0.022%
129	9.892	9.877	9.914	VV	697	11448	0.21%	0.034%
130	9.924	9.914	9.951	VV	398	5027	0.09%	0.015%
131	10.005	9.951	10.068	VV	88894	1013400	18.60%	3.045%
132	10.077	10.068	10.121	VV	1123	24232	0.44%	0.073%
133	10.142	10.121	10.168	VV	1804	28279	0.52%	0.085%
134	10.174	10.168	10.208	VV	677	11905	0.22%	0.036%
135	10.222	10.208	10.234	VV	403	5710	0.10%	0.017%
136	10.244	10.234	10.281	VV	533	7417	0.14%	0.022%
137	10.318	10.281	10.361	PV	551	12896	0.24%	0.039%
138	10.383	10.361	10.401	VV	310	5545	0.10%	0.017%
139	10.415	10.401	10.446	VV	243	4145	0.08%	0.012%
140	10.481	10.446	10.509	VV	7288	93176	1.71%	0.280%
141	10.530	10.509	10.555	VV	1839	34158	0.63%	0.103%

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142	10.584	10.555	10.599	VV	1060	23321	0.43%	0.070%
143	10.615	10.599	10.643	VV	1052	21319	0.39%	0.064%
144	10.678	10.643	10.702	VV	748	17553	0.32%	0.053%
145	10.728	10.702	10.760	VV	603	12296	0.23%	0.037%
146	10.790	10.760	10.822	VV	1384	31367	0.58%	0.094%
147	10.837	10.822	10.854	VV	1213	17803	0.33%	0.053%
148	10.884	10.854	10.917	VV	2007	41499	0.76%	0.125%
149	10.955	10.917	10.984	VV	3105	66238	1.22%	0.199%
150	11.002	10.984	11.056	VV	808	23050	0.42%	0.069%
151	11.135	11.056	11.188	VV	14718	211088	3.87%	0.634%
152	11.213	11.188	11.240	VV	3506	57568	1.06%	0.173%
153	11.280	11.240	11.321	VV	1244	44895	0.82%	0.135%
154	11.391	11.321	11.410	VV	897	33028	0.61%	0.099%
155	11.434	11.410	11.472	VV	2008	42285	0.78%	0.127%
156	11.521	11.472	11.544	VV	1175	31076	0.57%	0.093%
157	11.559	11.544	11.572	VV	1262	17133	0.31%	0.051%
158	11.589	11.572	11.627	VV	2120	36640	0.67%	0.110%
159	11.679	11.627	11.718	VV	3131	70857	1.30%	0.213%
160	11.748	11.718	11.764	VV	804	16003	0.29%	0.048%
161	11.784	11.764	11.808	VV	1257	19640	0.36%	0.059%
162	11.835	11.808	11.868	VV	2721	43535	0.80%	0.131%
163	11.908	11.868	11.959	VV	485709	5448398	100.00%	16.368%
164	11.977	11.959	12.007	VV	2876	54236	1.00%	0.163%
165	12.058	12.007	12.076	VV	2905	69252	1.27%	0.208%
166	12.092	12.076	12.104	VV	1887	25346	0.47%	0.076%
167	12.121	12.104	12.164	VV	2342	47808	0.88%	0.144%
168	12.204	12.164	12.219	VV	887	23724	0.44%	0.071%
169	12.255	12.219	12.287	VV	1876	53878	0.99%	0.162%
170	12.309	12.287	12.337	VV	3585	57166	1.05%	0.172%
171	12.350	12.337	12.381	VV	1101	22292	0.41%	0.067%
172	12.413	12.381	12.443	VV	1675	38801	0.71%	0.117%
173	12.472	12.443	12.482	VV	639	10117	0.19%	0.030%
174	12.487	12.482	12.498	VV	536	3791	0.07%	0.011%
175	12.546	12.498	12.568	VV	887	26095	0.48%	0.078%
176	12.590	12.568	12.602	VV	1073	17333	0.32%	0.052%
177	12.619	12.602	12.658	VV	1426	34660	0.64%	0.104%
178	12.681	12.658	12.704	VV	891	19365	0.36%	0.058%
179	12.737	12.704	12.774	VV	956	26706	0.49%	0.080%
180	12.800	12.774	12.816	VV	1630	25463	0.47%	0.076%
181	12.845	12.816	12.868	VV	1954	38867	0.71%	0.117%
182	12.905	12.868	12.932	VV	2647	49244	0.90%	0.148%
183	12.963	12.932	13.014	VV	40588	514912	9.45%	1.547%
184	13.026	13.014	13.078	VV	602	13358	0.25%	0.040%
185	13.104	13.078	13.134	PV	619	14531	0.27%	0.044%
186	13.152	13.134	13.168	VV	1358	19491	0.36%	0.059%
187	13.177	13.168	13.226	VV	916	18753	0.34%	0.056%
188	13.262	13.226	13.296	VV	33057	384115	7.05%	1.154%
189	13.353	13.296	13.420	VV	328167	4019526	73.77%	12.076%
190	13.439	13.420	13.454	VV	1408	22568	0.41%	0.068%
191	13.467	13.454	13.496	VV	1357	21743	0.40%	0.065%
192	13.530	13.496	13.556	VV	2573	52193	0.96%	0.157%
193	13.568	13.556	13.592	VV	957	15391	0.28%	0.046%
194	13.611	13.592	13.638	VV	710	11669	0.21%	0.035%

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195	13.662	13.638	13.677	PV	720	8298	0.15%	0.025%
196	13.688	13.677	13.702	VV	458	4538	0.08%	0.014%
197	13.726	13.702	13.769	VV	1921	35861	0.66%	0.108%
198	13.782	13.769	13.810	VV	368	5275	0.10%	0.016%
199	13.856	13.810	13.888	PV	3025	55053	1.01%	0.165%
200	13.899	13.888	13.910	VV	189	2013	0.04%	0.006%
201	13.964	13.910	13.984	VV	1714	32781	0.60%	0.098%
202	14.004	13.984	14.025	VV	2169	32610	0.60%	0.098%
203	14.046	14.025	14.073	VV	1186	26593	0.49%	0.080%
204	14.108	14.073	14.118	VV	2264	35601	0.65%	0.107%
205	14.131	14.118	14.152	VV	2514	35262	0.65%	0.106%
206	14.173	14.152	14.211	VV	2076	36392	0.67%	0.109%
207	14.254	14.211	14.274	VV	614	12718	0.23%	0.038%
208	14.285	14.274	14.301	PV	154	2039	0.04%	0.006%
209	14.339	14.301	14.363	VV	1440	30530	0.56%	0.092%
210	14.374	14.363	14.397	VV	688	9490	0.17%	0.029%
211	14.405	14.397	14.424	VV	371	4239	0.08%	0.013%
212	14.437	14.424	14.451	VV	375	2701	0.05%	0.008%
213	14.542	14.451	14.570	PV	1815	69943	1.28%	0.210%
214	14.597	14.570	14.648	VV	3866	74171	1.36%	0.223%
215	14.672	14.648	14.692	VV	2015	31242	0.57%	0.094%
216	14.703	14.692	14.714	VV	1016	12105	0.22%	0.036%
217	14.734	14.714	14.748	VV	1817	25993	0.48%	0.078%
218	14.771	14.748	14.811	VV	3306	67924	1.25%	0.204%
219	14.835	14.811	14.861	VV	5029	72438	1.33%	0.218%
220	14.902	14.861	14.922	VV	4121	82513	1.51%	0.248%
221	14.937	14.922	14.978	VV	2544	49181	0.90%	0.148%
222	14.989	14.978	15.008	VV	573	8461	0.16%	0.025%
223	15.026	15.008	15.058	VV	936	21643	0.40%	0.065%
224	15.104	15.058	15.121	VV	1742	34984	0.64%	0.105%
225	15.148	15.121	15.168	VV	16510	221386	4.06%	0.665%
226	15.188	15.168	15.238	VV	20331	292043	5.36%	0.877%
227	15.260	15.238	15.289	VV	2144	45981	0.84%	0.138%
228	15.311	15.289	15.371	VV	3362	65411	1.20%	0.197%
229	15.403	15.371	15.430	VV	1240	21939	0.40%	0.066%
230	15.458	15.430	15.477	VV	2151	34597	0.64%	0.104%
231	15.491	15.477	15.552	VV	1523	30117	0.55%	0.090%
232	15.605	15.552	15.711	PV	16990	455653	8.36%	1.369%
233	15.739	15.711	15.768	VV	3434	76953	1.41%	0.231%
234	15.805	15.768	15.846	VV	10914	231442	4.25%	0.695%
235	15.863	15.846	15.894	VV	1695	27224	0.50%	0.082%
236	15.919	15.894	15.939	VV	1009	17332	0.32%	0.052%
237	15.986	15.939	16.023	VV	2141	68523	1.26%	0.206%
238	16.060	16.023	16.092	VV	1654	42681	0.78%	0.128%
239	16.146	16.092	16.174	VV	1622	48803	0.90%	0.147%
240	16.196	16.174	16.217	VV	1477	27776	0.51%	0.083%
241	16.242	16.217	16.282	VV	2038	59650	1.09%	0.179%
242	16.299	16.282	16.342	VV	2006	39066	0.72%	0.117%
243	16.359	16.342	16.378	PV	328	2936	0.05%	0.009%
244	16.429	16.378	16.434	PV	1351	23803	0.44%	0.072%
245	16.446	16.434	16.481	VV	1523	32103	0.59%	0.096%
246	16.561	16.481	16.593	VV	2403	106228	1.95%	0.319%

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247	16.626	16.593	16.671	VV	5280	151523	2.78%	0.455%
248	16.713	16.671	16.773	VV	26986	595036	10.92%	1.788%
249	16.797	16.773	16.822	VV	5077	83752	1.54%	0.252%
250	16.844	16.822	16.865	VV	3952	56802	1.04%	0.171%
251	16.884	16.865	16.917	VV	1773	40829	0.75%	0.123%
252	16.939	16.917	16.947	VV	1174	18892	0.35%	0.057%
253	16.963	16.947	16.981	VV	1428	24151	0.44%	0.073%
254	17.036	16.981	17.065	VV	15511	269859	4.95%	0.811%
255	17.094	17.065	17.140	VV	17627	267603	4.91%	0.804%
256	17.195	17.140	17.218	VV	7314	150611	2.76%	0.452%
257	17.239	17.218	17.255	VV	6754	104431	1.92%	0.314%
258	17.268	17.255	17.308	VV	5361	91004	1.67%	0.273%
259	17.370	17.308	17.390	VV	1463	58808	1.08%	0.177%
260	17.432	17.390	17.441	VV	1902	41745	0.77%	0.125%
261	17.456	17.441	17.481	VV	1817	34897	0.64%	0.105%
262	17.510	17.481	17.544	VV	1489	43520	0.80%	0.131%
263	17.578	17.544	17.614	VV	5176	146659	2.69%	0.441%
264	17.643	17.614	17.694	VV	25653	425915	7.82%	1.280%
265	17.715	17.694	17.738	VV	2862	50030	0.92%	0.150%
266	17.757	17.738	17.790	VV	3120	60767	1.12%	0.183%
267	17.812	17.790	17.837	VV	1863	31737	0.58%	0.095%
268	17.858	17.837	17.891	PV	1054	19127	0.35%	0.057%
269	17.911	17.891	17.929	VV	814	9049	0.17%	0.027%
270	18.081	17.929	18.121	VV	5765	216719	3.98%	0.651%
271	18.173	18.121	18.202	VV	5592	125896	2.31%	0.378%
272	18.224	18.202	18.286	VV	4431	165476	3.04%	0.497%
273	18.305	18.286	18.351	VV	3555	85526	1.57%	0.257%
274	18.401	18.351	18.426	VV	8111	201508	3.70%	0.605%
275	18.472	18.426	18.489	VV	20172	422224	7.75%	1.268%
276	18.505	18.489	18.545	VV	20182	384794	7.06%	1.156%
277	18.563	18.545	18.577	VV	4099	71895	1.32%	0.216%
278	18.600	18.577	18.621	VV	5486	114042	2.09%	0.343%
279	18.636	18.621	18.691	VV	4540	127284	2.34%	0.382%
280	18.727	18.691	18.791	VV	15575	331173	6.08%	0.995%
281	18.806	18.791	18.844	VV	2931	69525	1.28%	0.209%
282	18.866	18.844	18.877	VV	3387	51663	0.95%	0.155%
283	18.912	18.877	18.949	VV	9236	216725	3.98%	0.651%
284	18.981	18.949	18.993	VV	3849	78752	1.45%	0.237%
285	19.017	18.993	19.048	VV	8428	174938	3.21%	0.526%
286	19.066	19.048	19.094	VV	5279	123040	2.26%	0.370%
287	19.108	19.094	19.135	VV	4136	76264	1.40%	0.229%
288	19.191	19.135	19.201	VV	3138	98690	1.81%	0.296%
289	19.241	19.201	19.251	VV	4245	108073	1.98%	0.325%
290	19.312	19.251	19.373	VV	14306	669808	12.29%	2.012%
291	19.405	19.373	19.421	VV	7456	186123	3.42%	0.559%
292	19.441	19.421	19.478	VV	8330	224235	4.12%	0.674%
293	19.499	19.478	19.533	VV	5546	163659	3.00%	0.492%
294	19.563	19.533	19.634	VV	7267	323930	5.95%	0.973%
295	19.657	19.634	19.675	VV	4770	99761	1.83%	0.300%
296	19.703	19.675	19.711	VV	6424	108892	2.00%	0.327%
297	19.727	19.711	19.743	VV	6383	111970	2.06%	0.336%
298	19.770	19.743	19.792	VV	8571	210309	3.86%	0.632%
299	19.813	19.792	19.861	VV	8825	272019	4.99%	0.817%

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300	19.895	19.861	19.935	VV	7539	287934	5.28%	0.865%
301	19.965	19.935	20.014	VV	7478	305182	5.60%	0.917%
302	20.063	20.014	20.101	VV	10698	423755	7.78%	1.273%
303	20.110	20.101	20.159	VV	7328	222885	4.09%	0.670%
304	20.183	20.159	20.202	VV	5535	135222	2.48%	0.406%
305	20.278	20.202	20.331	VV	8639	536609	9.85%	1.612%
306	20.347	20.331	20.382	VV	7382	214180	3.93%	0.643%
307	20.444	20.382	20.474	VV	8597	405670	7.45%	1.219%
308	20.505	20.474	20.514	VV	7541	168294	3.09%	0.506%
309	20.612	20.514	20.622	VV	10380	569241	10.45%	1.710%
310	20.630	20.622	20.694	VV	10163	387982	7.12%	1.166%
311	20.746	20.694	20.757	VV	8201	303776	5.58%	0.913%
312	20.804	20.757	20.821	VV	9694	329376	6.05%	0.990%
313	20.839	20.821	20.878	VV	8750	279111	5.12%	0.839%
314	20.902	20.878	20.984	VV	8170	488413	8.96%	1.467%
315	21.004	20.984	21.020	VV	7308	153196	2.81%	0.460%
316	21.039	21.020	21.053	VV	7061	138919	2.55%	0.417%
317	21.068	21.053	21.078	VV	6962	99672	1.83%	0.299%
318	21.085	21.078	21.093	VV	6724	59818	1.10%	0.180%
319	21.098	21.093	21.124	VV	6669	123025	2.26%	0.370%
320	21.149	21.124	21.156	VV	6367	119491	2.19%	0.359%
321	21.184	21.156	21.231	VV	7506	290791	5.34%	0.874%
322	21.252	21.231	21.271	VV	5460	128206	2.35%	0.385%
323	21.325	21.271	21.335	VV	5177	195909	3.60%	0.589%
324	21.353	21.335	21.381	VV	5101	137074	2.52%	0.412%
325	21.396	21.381	21.446	VV	4813	178469	3.28%	0.536%
326	21.458	21.446	21.490	VV	4457	112613	2.07%	0.338%
327	21.506	21.490	21.514	VV	4063	57724	1.06%	0.173%
328	21.523	21.514	21.546	VV	4101	73616	1.35%	0.221%
329	21.566	21.546	21.581	VV	3754	75998	1.39%	0.228%
330	21.606	21.581	21.659	VV	4204	172078	3.16%	0.517%
331	21.690	21.659	21.704	VV	3257	85475	1.57%	0.257%
332	21.713	21.704	21.724	VV	3039	34265	0.63%	0.103%
333	21.730	21.724	21.739	VV	2652	22604	0.41%	0.068%
334	21.751	21.739	21.811	VV	2552	98711	1.81%	0.297%
335	21.821	21.811	21.831	VV	2129	23435	0.43%	0.070%
336	21.843	21.831	21.876	VV	1825	43569	0.80%	0.131%
337	21.895	21.876	21.935	VV	1375	40471	0.74%	0.122%
338	21.944	21.935	21.957	VV	994	10843	0.20%	0.033%
339	21.972	21.957	21.979	VV	803	9874	0.18%	0.030%
340	21.985	21.979	22.004	VV	685	7924	0.15%	0.024%
341	22.012	22.004	22.021	VV	431	3496	0.06%	0.011%
342	22.035	22.021	22.044	VV	339	3510	0.06%	0.011%
343	22.048	22.044	22.055	VV	259	864	0.02%	0.003%
Sum of corrected areas:					33286060			

Aliphatic EPH 030325.M Thu Mar 13 05:44:39 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	2	SDG No.:	Q1542
Lab Sample ID:	Q1542-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 14:08	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	6.59		1	1.97	4.57	mg/kg	FE052763.D
Total EPH	Total EPH	6.59			1.97	4.57	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	2	SDG No.:	Q1542
Lab Sample ID:	Q1542-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.2
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052763.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.59		1.97	4.57	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.18		2.06	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.0		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.7		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-04	Acq On:	12 Mar 2025 14:08
Client Sample ID:	2	Operator:	YP\AJ
Data file:	FE052763.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	3.148	6.790	654541	4.197	300	ug/ml
Aliphatic C12-C16	6.791	10.243	2163284	14.223	200	ug/ml
Aliphatic C16-C21	10.244	13.621	3945398	26.922	300	ug/ml
Aliphatic C21-C28	13.622	17.293	6432734	45.157	400	ug/ml
Aliphatic C28-C40	17.294	22.210	13670406	107.144	600	ug/ml
Aliphatic EPH	3.148	22.210	26866363	197.644		ug/ml
ortho-Terphenyl (SURR)	11.909	11.909	6687196	39.67		ug/ml
1-chlorooctadecane (SURR)	13.353	13.353	5102804	42.02		ug/ml
Aliphatic C9-C28	3.148	17.293	13195957	90.499	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052763.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 14:08
 Operator : YP\AJ
 Sample : Q1542-04
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 2

Integration File: autoint1.e
 Quant Time: Mar 13 03:56:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.909	6687196	39.666 ug/ml
Spiked Amount	50.000	Recovery	= 79.33%
12) S 1-chlorooctadecane (S...	13.353	5102804	42.024 ug/ml
Spiked Amount	50.000	Recovery	= 84.05%

Target Compounds

(f)=RT Delta > 1/2 Window

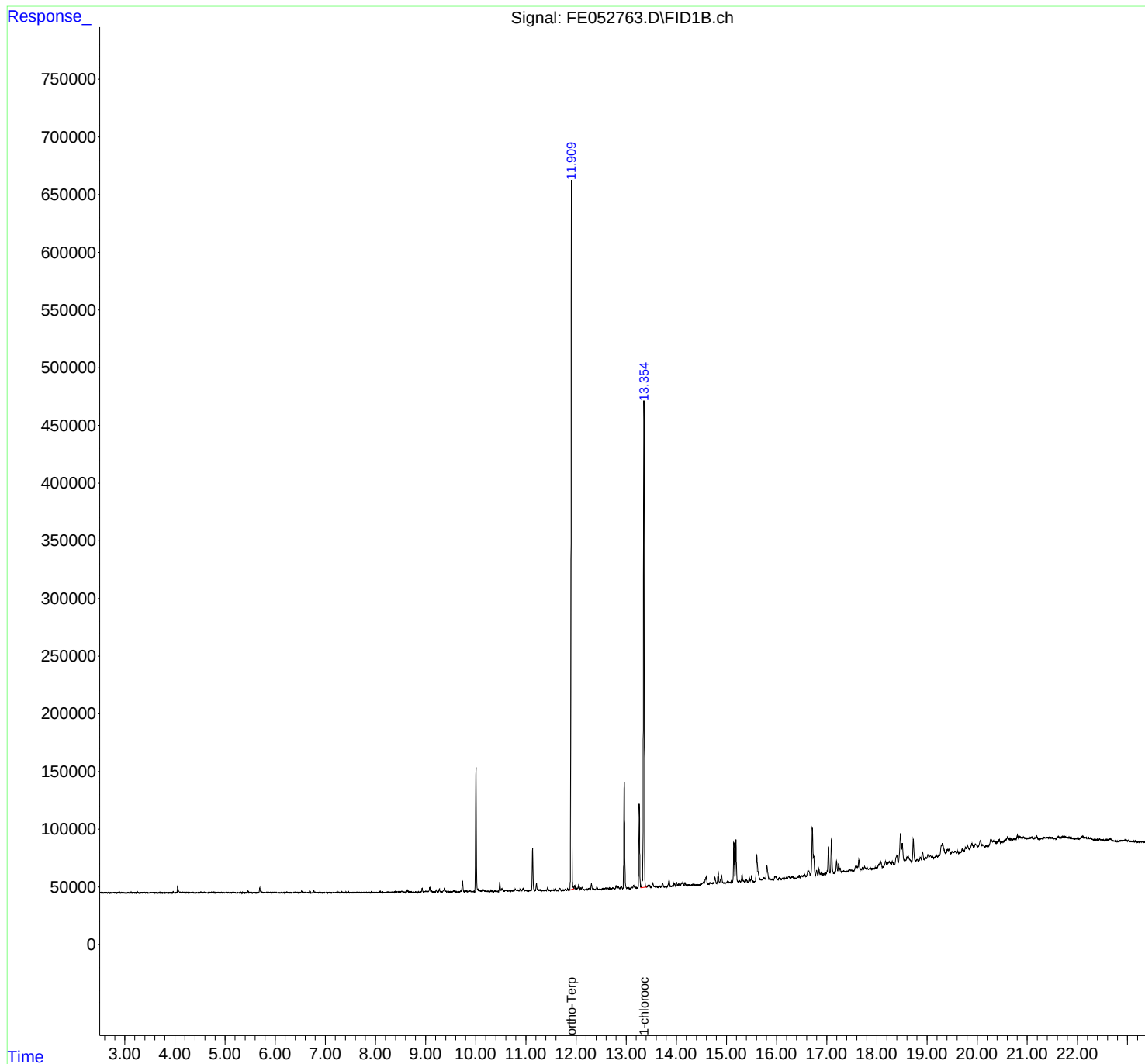
(m)=manual int.

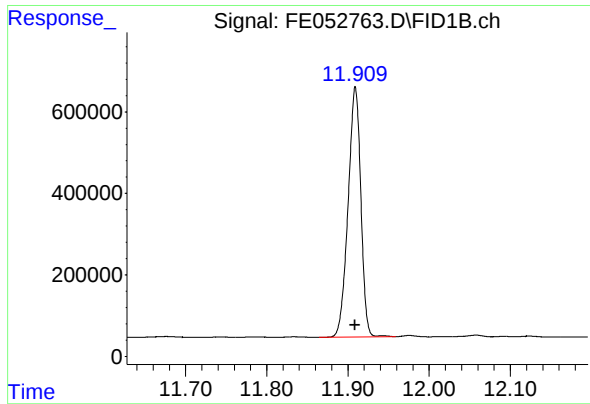
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052763.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 14:08
Operator : YP\AJ
Sample : Q1542-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
2

Integration File: autoint1.e
Quant Time: Mar 13 03:56:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

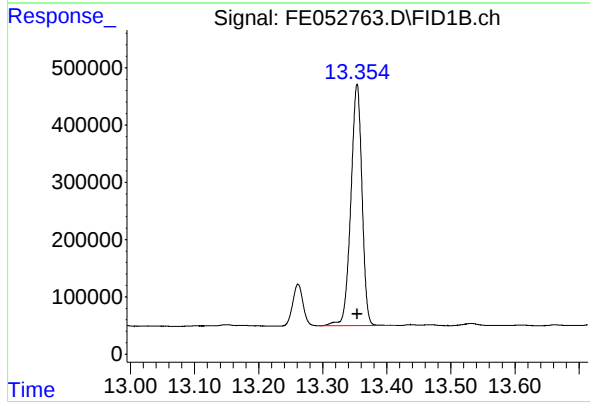




#9 ortho-Terphenyl (SURR)

R.T.: 11.909 min
Delta R.T.: 0.000 min
Response: 6687196
Conc: 39.67 ug/ml

Instrument :
FID_E
ClientSampleId :
2



#12 1-chlorooctadecane (SURR)

R.T.: 13.353 min
Delta R.T.: 0.000 min
Response: 5102804
Conc: 42.02 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052763.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 14:08
Sample : Q1542-04
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.827	2.804	2.854	BV	45	98	0.00%	0.000%
2	2.883	2.854	2.915	PV	210	4065	0.06%	0.010%
3	2.937	2.915	2.953	PV	213	2636	0.04%	0.007%
4	2.968	2.953	3.040	VV	259	7716	0.11%	0.020%
5	3.055	3.040	3.097	VV	144	2588	0.04%	0.007%
6	3.123	3.097	3.231	VV	174	6938	0.10%	0.018%
7	3.260	3.231	3.291	VV	376	5313	0.08%	0.014%
8	3.307	3.291	3.331	VV	97	1362	0.02%	0.004%
9	3.340	3.331	3.360	PV	68	618	0.01%	0.002%
10	3.401	3.360	3.412	VV	154	3681	0.05%	0.009%
11	3.420	3.412	3.447	VV	123	2139	0.03%	0.006%
12	3.463	3.447	3.521	VV	160	4374	0.07%	0.011%
13	3.557	3.521	3.581	VV	163	3747	0.06%	0.010%
14	3.610	3.581	3.641	VV	228	4893	0.07%	0.013%
15	3.648	3.641	3.683	VV	131	2366	0.04%	0.006%
16	3.699	3.683	3.747	VV	224	5078	0.08%	0.013%
17	3.759	3.747	3.770	VV	112	1553	0.02%	0.004%
18	3.784	3.770	3.818	VV	160	2929	0.04%	0.008%
19	3.839	3.818	3.861	VV	168	3358	0.05%	0.009%
20	3.866	3.861	3.872	VV	167	793	0.01%	0.002%
21	3.890	3.872	3.908	VV	159	2134	0.03%	0.006%
22	3.964	3.908	4.002	VV	414	9629	0.14%	0.025%
23	4.056	4.002	4.141	VV	5554	93376	1.39%	0.241%
24	4.147	4.141	4.207	VV	457	12277	0.18%	0.032%
25	4.230	4.207	4.261	VV	389	8769	0.13%	0.023%
26	4.278	4.261	4.308	VV	584	9619	0.14%	0.025%
27	4.342	4.308	4.435	VV	273	15519	0.23%	0.040%
28	4.465	4.435	4.474	VV	200	3779	0.06%	0.010%
29	4.510	4.474	4.571	VV	640	22515	0.33%	0.058%
30	4.591	4.571	4.605	VV	389	6490	0.10%	0.017%
31	4.627	4.605	4.654	VV	312	7066	0.11%	0.018%
32	4.681	4.654	4.707	VV	983	15000	0.22%	0.039%
33	4.767	4.707	4.784	VV	569	19552	0.29%	0.050%
34	4.793	4.784	4.874	VV	436	14361	0.21%	0.037%
35	4.905	4.874	4.917	VV	285	6338	0.09%	0.016%
36	4.928	4.917	4.954	VV	318	5524	0.08%	0.014%

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37	4.973	4.954	5.005	VV	236	6439	0.10%	0.017%
38	5.018	5.005	5.053	VV	281	5342	0.08%	0.014%
39	5.065	5.053	5.114	VV	185	5446	0.08%	0.014%
40	5.156	5.114	5.208	VV	550	16381	0.24%	0.042%
41	5.215	5.208	5.251	VV	194	4509	0.07%	0.012%
42	5.298	5.251	5.320	VV	195	6557	0.10%	0.017%
43	5.334	5.320	5.354	VV	271	4035	0.06%	0.010%
44	5.366	5.354	5.390	VV	142	2423	0.04%	0.006%
45	5.400	5.390	5.418	VV	171	1637	0.02%	0.004%
46	5.426	5.418	5.434	VV	125	1010	0.02%	0.003%
47	5.459	5.434	5.519	VV	1681	26437	0.39%	0.068%
48	5.528	5.519	5.609	VV	244	6430	0.10%	0.017%
49	5.655	5.609	5.674	PV	391	7410	0.11%	0.019%
50	5.693	5.674	5.748	VV	4244	61138	0.91%	0.158%
51	5.770	5.748	5.813	VV	398	11312	0.17%	0.029%
52	5.843	5.813	5.874	VV	324	8841	0.13%	0.023%
53	5.914	5.874	5.930	VV	302	7367	0.11%	0.019%
54	5.962	5.930	5.995	VV	309	9871	0.15%	0.025%
55	6.003	5.995	6.094	VV	253	10325	0.15%	0.027%
56	6.131	6.094	6.154	VV	315	5978	0.09%	0.015%
57	6.168	6.154	6.179	VV	275	3130	0.05%	0.008%
58	6.195	6.179	6.206	VV	263	3298	0.05%	0.009%
59	6.227	6.206	6.277	VV	743	16555	0.25%	0.043%
60	6.286	6.277	6.310	VV	261	3520	0.05%	0.009%
61	6.331	6.310	6.361	VV	269	5576	0.08%	0.014%
62	6.403	6.361	6.434	VV	741	16271	0.24%	0.042%
63	6.453	6.434	6.474	VV	364	6692	0.10%	0.017%
64	6.489	6.474	6.501	VV	319	4230	0.06%	0.011%
65	6.528	6.501	6.568	VV	1448	23302	0.35%	0.060%
66	6.576	6.568	6.592	VV	307	3824	0.06%	0.010%
67	6.604	6.592	6.624	VV	240	3851	0.06%	0.010%
68	6.653	6.624	6.664	VV	291	4478	0.07%	0.012%
69	6.690	6.664	6.748	VV	1901	25559	0.38%	0.066%
70	6.772	6.748	6.831	VV	1854	31215	0.46%	0.081%
71	6.844	6.831	6.888	VV	360	6564	0.10%	0.017%
72	6.892	6.888	6.909	VV	285	1789	0.03%	0.005%
73	6.919	6.909	6.941	VV	195	1933	0.03%	0.005%
74	6.973	6.941	7.006	VV	281	4473	0.07%	0.012%
75	7.019	7.006	7.067	VV	156	3640	0.05%	0.009%
76	7.095	7.067	7.118	VV	197	3048	0.05%	0.008%
77	7.164	7.118	7.177	PV	179	3607	0.05%	0.009%
78	7.241	7.177	7.253	VV	588	10786	0.16%	0.028%
79	7.262	7.253	7.290	VV	283	4622	0.07%	0.012%
80	7.328	7.290	7.349	VV	601	11692	0.17%	0.030%
81	7.366	7.349	7.397	VV	528	9682	0.14%	0.025%
82	7.413	7.397	7.441	VV	577	8466	0.13%	0.022%
83	7.465	7.441	7.486	VV	539	7994	0.12%	0.021%
84	7.511	7.486	7.528	VV	410	6545	0.10%	0.017%
85	7.543	7.528	7.565	VV	223	3457	0.05%	0.009%
86	7.586	7.565	7.598	VV	249	3585	0.05%	0.009%
87	7.641	7.598	7.743	VV	594	16499	0.25%	0.043%
88	7.762	7.743	7.796	PV	151	2877	0.04%	0.007%
89	7.817	7.796	7.851	VV	206	3605	0.05%	0.009%

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90	7.866	7.851	7.884	VV	178	1752	0.03%	0.005%
91	7.926	7.884	7.971	VV	690	12475	0.19%	0.032%
92	7.983	7.971	8.038	VV	145	2682	0.04%	0.007%
93	8.071	8.038	8.084	VV	495	8159	0.12%	0.021%
94	8.097	8.084	8.117	VV	884	10495	0.16%	0.027%
95	8.131	8.117	8.191	VV	573	11256	0.17%	0.029%
96	8.247	8.191	8.265	VV	353	10516	0.16%	0.027%
97	8.282	8.265	8.308	VV	556	7853	0.12%	0.020%
98	8.344	8.308	8.368	VV	681	11242	0.17%	0.029%
99	8.395	8.368	8.409	VV	659	10020	0.15%	0.026%
100	8.421	8.409	8.430	VV	533	6217	0.09%	0.016%
101	8.447	8.430	8.463	VV	795	12209	0.18%	0.031%
102	8.490	8.463	8.505	VV	866	17203	0.26%	0.044%
103	8.525	8.505	8.560	VV	1217	21458	0.32%	0.055%
104	8.574	8.560	8.591	VV	392	5470	0.08%	0.014%
105	8.638	8.591	8.670	VV	1610	36361	0.54%	0.094%
106	8.681	8.670	8.701	VV	643	8565	0.13%	0.022%
107	8.716	8.701	8.740	VV	443	7309	0.11%	0.019%
108	8.755	8.740	8.789	VV	320	5488	0.08%	0.014%
109	8.807	8.789	8.841	VV	289	4710	0.07%	0.012%
110	8.858	8.841	8.870	PV	206	2100	0.03%	0.005%
111	8.890	8.870	8.907	VV	284	4466	0.07%	0.012%
112	8.931	8.907	8.959	VV	3462	40998	0.61%	0.106%
113	8.982	8.959	8.990	VV	663	9383	0.14%	0.024%
114	9.008	8.990	9.038	VV	903	20980	0.31%	0.054%
115	9.084	9.038	9.104	VV	4380	65341	0.97%	0.169%
116	9.117	9.104	9.157	VV	1299	22333	0.33%	0.058%
117	9.174	9.157	9.190	VV	637	9017	0.13%	0.023%
118	9.211	9.190	9.243	VV	1498	23644	0.35%	0.061%
119	9.276	9.243	9.326	VV	2828	41213	0.61%	0.106%
120	9.379	9.326	9.431	VV	3666	73797	1.10%	0.190%
121	9.448	9.431	9.478	VV	1162	13697	0.20%	0.035%
122	9.505	9.478	9.522	PV	430	5677	0.08%	0.015%
123	9.558	9.522	9.623	VV	906	28195	0.42%	0.073%
124	9.642	9.623	9.670	VV	333	4872	0.07%	0.013%
125	9.738	9.670	9.771	PV	9024	129135	1.92%	0.333%
126	9.803	9.771	9.838	VV	718	21488	0.32%	0.055%
127	9.885	9.838	9.921	VV	881	26736	0.40%	0.069%
128	9.935	9.921	9.954	VV	512	6110	0.09%	0.016%
129	10.005	9.954	10.116	VV	107074	1222134	18.17%	3.153%
130	10.144	10.116	10.196	VV	1934	49757	0.74%	0.128%
131	10.212	10.196	10.225	VV	465	6802	0.10%	0.018%
132	10.243	10.225	10.278	VV	509	9105	0.14%	0.023%
133	10.305	10.278	10.358	PV	1229	21552	0.32%	0.056%
134	10.390	10.358	10.417	VV	638	10067	0.15%	0.026%
135	10.434	10.417	10.453	VV	264	2501	0.04%	0.006%
136	10.481	10.453	10.505	VV	8379	99872	1.48%	0.258%
137	10.521	10.505	10.561	VV	2109	42921	0.64%	0.111%
138	10.584	10.561	10.604	VV	841	18366	0.27%	0.047%
139	10.617	10.604	10.644	VV	878	15783	0.23%	0.041%
140	10.656	10.644	10.665	VV	443	4934	0.07%	0.013%
141	10.677	10.665	10.693	VV	445	6300	0.09%	0.016%

					rteres			
142	10.738	10.693	10.761	VV	605	17311	0.26%	0.045%
143	10.789	10.761	10.821	VV	1922	34824	0.52%	0.090%
144	10.838	10.821	10.857	VV	1064	15174	0.23%	0.039%
145	10.884	10.857	10.914	VV	1597	30689	0.46%	0.079%
146	10.948	10.914	10.982	VV	2036	51779	0.77%	0.134%
147	10.997	10.982	11.019	VV	491	9426	0.14%	0.024%
148	11.032	11.019	11.051	VV	436	5791	0.09%	0.015%
149	11.082	11.051	11.091	VV	684	9686	0.14%	0.025%
150	11.135	11.091	11.185	VV	37387	439909	6.54%	1.135%
151	11.212	11.185	11.268	VV	6270	99906	1.49%	0.258%
152	11.282	11.268	11.358	VV	799	23819	0.35%	0.061%
153	11.395	11.358	11.410	VV	418	8826	0.13%	0.023%
154	11.433	11.410	11.491	VV	2494	38679	0.58%	0.100%
155	11.523	11.491	11.544	PV	714	12945	0.19%	0.033%
156	11.560	11.544	11.571	VV	690	8693	0.13%	0.022%
157	11.590	11.571	11.621	VV	1470	19921	0.30%	0.051%
158	11.676	11.621	11.718	VV	2062	41724	0.62%	0.108%
159	11.744	11.718	11.765	PV	488	7988	0.12%	0.021%
160	11.785	11.765	11.811	VV	891	12312	0.18%	0.032%
161	11.834	11.811	11.858	VV	1166	14426	0.21%	0.037%
162	11.909	11.858	11.959	VV	608995	6725775	100.00%	17.351%
163	11.975	11.959	12.000	VV	4270	60126	0.89%	0.155%
164	12.019	12.000	12.028	VV	1485	21038	0.31%	0.054%
165	12.058	12.028	12.078	VV	5118	81669	1.21%	0.211%
166	12.092	12.078	12.106	VV	2048	24744	0.37%	0.064%
167	12.123	12.106	12.158	VV	2540	36983	0.55%	0.095%
168	12.207	12.158	12.223	VV	653	12672	0.19%	0.033%
169	12.261	12.223	12.284	VV	1345	29650	0.44%	0.076%
170	12.308	12.284	12.341	VV	5260	74940	1.11%	0.193%
171	12.351	12.341	12.377	VV	908	12294	0.18%	0.032%
172	12.416	12.377	12.448	VV	2671	38733	0.58%	0.100%
173	12.473	12.448	12.501	VV	424	7384	0.11%	0.019%
174	12.543	12.501	12.574	PV	703	22006	0.33%	0.057%
175	12.592	12.574	12.603	VV	1095	15169	0.23%	0.039%
176	12.618	12.603	12.654	VV	1234	27524	0.41%	0.071%
177	12.685	12.654	12.701	VV	793	18995	0.28%	0.049%
178	12.735	12.701	12.772	VV	1036	25831	0.38%	0.067%
179	12.800	12.772	12.824	VV	3004	41856	0.62%	0.108%
180	12.845	12.824	12.867	VV	2113	33185	0.49%	0.086%
181	12.905	12.867	12.930	VV	2341	44841	0.67%	0.116%
182	12.962	12.930	13.012	VV	92492	1086285	16.15%	2.802%
183	13.029	13.012	13.078	VV	805	13668	0.20%	0.035%
184	13.150	13.078	13.166	PV	2745	58957	0.88%	0.152%
185	13.176	13.166	13.230	VV	1650	28549	0.42%	0.074%
186	13.262	13.230	13.294	VV	73214	826896	12.29%	2.133%
187	13.353	13.294	13.416	VV	424379	5146990	76.53%	13.278%
188	13.438	13.416	13.453	VV	2270	34671	0.52%	0.089%
189	13.467	13.453	13.497	VV	2143	34535	0.51%	0.089%
190	13.531	13.497	13.584	VV	4267	83947	1.25%	0.217%
191	13.611	13.584	13.636	VV	1341	22126	0.33%	0.057%
192	13.663	13.636	13.700	VV	1457	23626	0.35%	0.061%
193	13.726	13.700	13.773	VV	3319	54068	0.80%	0.139%
194	13.781	13.773	13.804	VV	208	2414	0.04%	0.006%

					rteres			
195	13.856	13.804	13.894	PV	5712	101354	1.51%	0.261%
196	13.923	13.894	13.941	VV	712	11167	0.17%	0.029%
197	13.964	13.941	13.983	VV	2815	39860	0.59%	0.103%
198	14.003	13.983	14.025	VV	3553	48368	0.72%	0.125%
199	14.050	14.025	14.076	VV	1905	40117	0.60%	0.103%
200	14.108	14.076	14.117	VV	2569	42482	0.63%	0.110%
201	14.131	14.117	14.154	VV	3436	49363	0.73%	0.127%
202	14.173	14.154	14.217	VV	2916	45483	0.68%	0.117%
203	14.252	14.217	14.276	VV	798	16039	0.24%	0.041%
204	14.296	14.276	14.307	VV	481	5984	0.09%	0.015%
205	14.337	14.307	14.425	VV	967	31672	0.47%	0.082%
206	14.438	14.425	14.475	VV	301	3373	0.05%	0.009%
207	14.545	14.475	14.557	PV	2226	63338	0.94%	0.163%
208	14.595	14.557	14.650	VV	6668	162025	2.41%	0.418%
209	14.672	14.650	14.688	VV	1643	24608	0.37%	0.063%
210	14.699	14.688	14.715	VV	1197	15593	0.23%	0.040%
211	14.734	14.715	14.745	VV	1608	20213	0.30%	0.052%
212	14.771	14.745	14.808	VV	5838	102762	1.53%	0.265%
213	14.835	14.808	14.860	VV	9104	128685	1.91%	0.332%
214	14.901	14.860	14.944	VV	7471	149995	2.23%	0.387%
215	14.957	14.944	14.974	VV	759	10572	0.16%	0.027%
216	14.988	14.974	15.000	VV	674	8577	0.13%	0.022%
217	15.021	15.000	15.080	VV	2055	44838	0.67%	0.116%
218	15.104	15.080	15.119	VV	2378	32285	0.48%	0.083%
219	15.147	15.119	15.168	VV	34840	443429	6.59%	1.144%
220	15.188	15.168	15.230	VV	37517	489939	7.28%	1.264%
221	15.258	15.230	15.279	VV	1703	37781	0.56%	0.097%
222	15.310	15.279	15.368	VV	6893	123897	1.84%	0.320%
223	15.397	15.368	15.430	VV	1790	34197	0.51%	0.088%
224	15.456	15.430	15.475	PV	3406	48235	0.72%	0.124%
225	15.500	15.475	15.552	VV	3352	48530	0.72%	0.125%
226	15.602	15.552	15.710	PV	23377	568868	8.46%	1.468%
227	15.738	15.710	15.767	VV	3088	74257	1.10%	0.192%
228	15.806	15.767	15.846	VV	13249	281588	4.19%	0.726%
229	15.863	15.846	15.891	VV	2515	39809	0.59%	0.103%
230	15.912	15.891	15.937	VV	1096	22888	0.34%	0.059%
231	15.966	15.937	15.978	VV	2941	46748	0.70%	0.121%
232	15.984	15.978	16.023	VV	2903	47178	0.70%	0.122%
233	16.061	16.023	16.091	VV	2051	44244	0.66%	0.114%
234	16.146	16.091	16.173	VV	2105	47781	0.71%	0.123%
235	16.194	16.173	16.215	VV	1611	28058	0.42%	0.072%
236	16.242	16.215	16.281	VV	2363	63074	0.94%	0.163%
237	16.322	16.281	16.376	VV	2427	61248	0.91%	0.158%
238	16.422	16.376	16.429	PV	1080	15656	0.23%	0.040%
239	16.449	16.429	16.481	VV	2296	35817	0.53%	0.092%
240	16.501	16.481	16.516	VV	1871	27621	0.41%	0.071%
241	16.532	16.516	16.545	VV	1859	26527	0.39%	0.068%
242	16.559	16.545	16.593	VV	1924	43774	0.65%	0.113%
243	16.627	16.593	16.674	VV	5901	173675	2.58%	0.448%
244	16.712	16.674	16.774	VV	42123	877553	13.05%	2.264%
245	16.797	16.774	16.822	VV	4902	78713	1.17%	0.203%
246	16.844	16.822	16.866	VV	6066	80505	1.20%	0.208%

					rteres			
247	16.883	16.866	16.923	VV	1823	39760	0.59%	0.103%
248	16.966	16.923	16.980	VV	1757	35748	0.53%	0.092%
249	17.033	16.980	17.064	VV	24233	377844	5.62%	0.975%
250	17.093	17.064	17.139	VV	29663	430869	6.41%	1.112%
251	17.195	17.139	17.218	VV	10934	179291	2.67%	0.463%
252	17.238	17.218	17.258	VV	8022	124225	1.85%	0.320%
253	17.266	17.258	17.294	VV	4118	54546	0.81%	0.141%
254	17.340	17.294	17.389	VV	1518	54240	0.81%	0.140%
255	17.457	17.389	17.488	VV	2159	68435	1.02%	0.177%
256	17.520	17.488	17.540	VV	1081	26281	0.39%	0.068%
257	17.579	17.540	17.614	VV	4368	130850	1.95%	0.338%
258	17.640	17.614	17.671	VV	9411	166566	2.48%	0.430%
259	17.684	17.671	17.693	VV	1284	15036	0.22%	0.039%
260	17.715	17.693	17.733	VV	2209	38136	0.57%	0.098%
261	17.755	17.733	17.783	VV	3082	56016	0.83%	0.145%
262	17.799	17.783	17.833	VV	1527	27883	0.41%	0.072%
263	17.872	17.833	17.893	VV	958	21087	0.31%	0.054%
264	17.910	17.893	17.922	VV	603	6411	0.10%	0.017%
265	17.933	17.922	17.945	VV	374	3491	0.05%	0.009%
266	17.973	17.945	17.985	PV	879	12939	0.19%	0.033%
267	18.041	17.985	18.057	VV	3136	86032	1.28%	0.222%
268	18.082	18.057	18.122	VV	5255	105557	1.57%	0.272%
269	18.172	18.122	18.203	VV	5115	131740	1.96%	0.340%
270	18.250	18.203	18.291	VV	4156	171549	2.55%	0.443%
271	18.307	18.291	18.354	VV	3728	86922	1.29%	0.224%
272	18.399	18.354	18.425	VV	8959	232598	3.46%	0.600%
273	18.470	18.425	18.491	VV	27306	572685	8.51%	1.477%
274	18.505	18.491	18.542	VV	18565	335706	4.99%	0.866%
275	18.557	18.542	18.575	VV	4363	77207	1.15%	0.199%
276	18.602	18.575	18.621	VV	6363	134871	2.01%	0.348%
277	18.636	18.621	18.693	VV	5443	149609	2.22%	0.386%
278	18.726	18.693	18.775	VV	20624	360520	5.36%	0.930%
279	18.805	18.775	18.834	VV	2601	70112	1.04%	0.181%
280	18.865	18.834	18.880	VV	4134	76033	1.13%	0.196%
281	18.909	18.880	18.956	VV	8690	202445	3.01%	0.522%
282	18.979	18.956	18.994	VV	3213	58131	0.86%	0.150%
283	19.018	18.994	19.048	VV	5519	130183	1.94%	0.336%
284	19.067	19.048	19.091	VV	4451	97988	1.46%	0.253%
285	19.109	19.091	19.137	VV	3405	74653	1.11%	0.193%
286	19.191	19.137	19.211	VV	3382	113673	1.69%	0.293%
287	19.236	19.211	19.250	VV	3694	71983	1.07%	0.186%
288	19.311	19.250	19.366	VV	13358	612737	9.11%	1.581%
289	19.406	19.366	19.423	VV	7218	200012	2.97%	0.516%
290	19.440	19.423	19.478	VV	7311	191974	2.85%	0.495%
291	19.504	19.478	19.538	VV	4973	155910	2.32%	0.402%
292	19.568	19.538	19.594	VV	4818	148631	2.21%	0.383%
293	19.611	19.594	19.636	VV	4364	94759	1.41%	0.244%
294	19.654	19.636	19.674	VV	3811	77838	1.16%	0.201%
295	19.701	19.674	19.748	VV	5930	207679	3.09%	0.536%
296	19.771	19.748	19.788	VV	7003	149068	2.22%	0.385%
297	19.811	19.788	19.850	VV	7655	231851	3.45%	0.598%
298	19.895	19.850	19.936	VV	9282	364224	5.42%	0.940%
299	19.963	19.936	20.024	VV	8750	378423	5.63%	0.976%

					rteres			
300	20.064	20.024	20.101	VV	10814	384868	5.72%	0.993%
301	20.111	20.101	20.144	VV	7073	160143	2.38%	0.413%
302	20.179	20.144	20.205	VV	5565	192260	2.86%	0.496%
303	20.280	20.205	20.309	VV	10458	477580	7.10%	1.232%
304	20.320	20.309	20.332	VV	8836	119160	1.77%	0.307%
305	20.340	20.332	20.386	VV	8433	248509	3.69%	0.641%
306	20.441	20.386	20.480	VV	9166	429409	6.38%	1.108%
307	20.505	20.480	20.520	VV	7308	164579	2.45%	0.425%
308	20.602	20.520	20.628	VV	10000	544025	8.09%	1.403%
309	20.641	20.628	20.651	VV	8558	117653	1.75%	0.304%
310	20.660	20.651	20.713	VV	8462	293764	4.37%	0.758%
311	20.745	20.713	20.764	VV	8002	237517	3.53%	0.613%
312	20.802	20.764	20.824	VV	10206	321232	4.78%	0.829%
313	20.843	20.824	20.888	VV	9468	335302	4.99%	0.865%
314	20.904	20.888	20.983	VV	8287	434248	6.46%	1.120%
315	21.081	20.983	21.092	VV	6915	437001	6.50%	1.127%
316	21.102	21.092	21.143	VV	6667	194335	2.89%	0.501%
317	21.180	21.143	21.238	VV	7587	345320	5.13%	0.891%
318	21.338	21.238	21.366	VV	5258	383279	5.70%	0.989%
319	21.412	21.366	21.435	VV	4778	193846	2.88%	0.500%
320	21.460	21.435	21.567	VV	4475	299448	4.45%	0.773%
321	21.619	21.567	21.645	VV	4311	160531	2.39%	0.414%
322	21.750	21.645	21.825	VV	3535	328962	4.89%	0.849%
323	21.838	21.825	21.934	VV	2145	81975	1.22%	0.211%
324	21.991	21.934	22.002	VV	253	4786	0.07%	0.012%
Sum of corrected areas:						38763162		

Aliphatic EPH 030325.M Thu Mar 13 05:46:17 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	3	SDG No.:	Q1542
Lab Sample ID:	Q1542-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 14:37	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	7.05		1	2.04	4.75	mg/kg	FE052764.D
Total EPH	Total EPH	7.05			2.04	4.75	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	3	SDG No.:	Q1542
Lab Sample ID:	Q1542-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052764.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7.05		2.04	4.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.7		2.14	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.0		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.7		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-05	Acq On:	12 Mar 2025 14:37
Client Sample ID:	3	Operator:	YP\AJ
Data file:	FE052764.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	3.148	6.790	553469	3.549	300	ug/ml
Aliphatic C12-C16	6.791	10.243	1803333	11.856	200	ug/ml
Aliphatic C16-C21	10.244	13.621	3879743	26.474	300	ug/ml
Aliphatic C21-C28	13.622	17.293	7242365	50.841	400	ug/ml
Aliphatic C28-C40	17.294	22.210	23698947	185.744	600	ug/ml
Aliphatic EPH	3.148	22.210	37177857	278.465		ug/ml
ortho-Terphenyl (SURR)	11.908	11.908	5350576	31.74		ug/ml
1-chlorooctadecane (SURR)	13.353	13.353	4007844	33.01		ug/ml
Aliphatic C9-C28	3.148	17.293	13478910	92.72	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052764.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 14:37
 Operator : YP\AJ
 Sample : Q1542-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 3

Integration File: autoint1.e
 Quant Time: Mar 13 03:56:27 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.908	5350576	31.738 ug/ml
Spiked Amount	50.000	Recovery	= 63.48%
12) S 1-chlorooctadecane (S...	13.353	4007844	33.006 ug/ml
Spiked Amount	50.000	Recovery	= 66.01%

Target Compounds

(f)=RT Delta > 1/2 Window

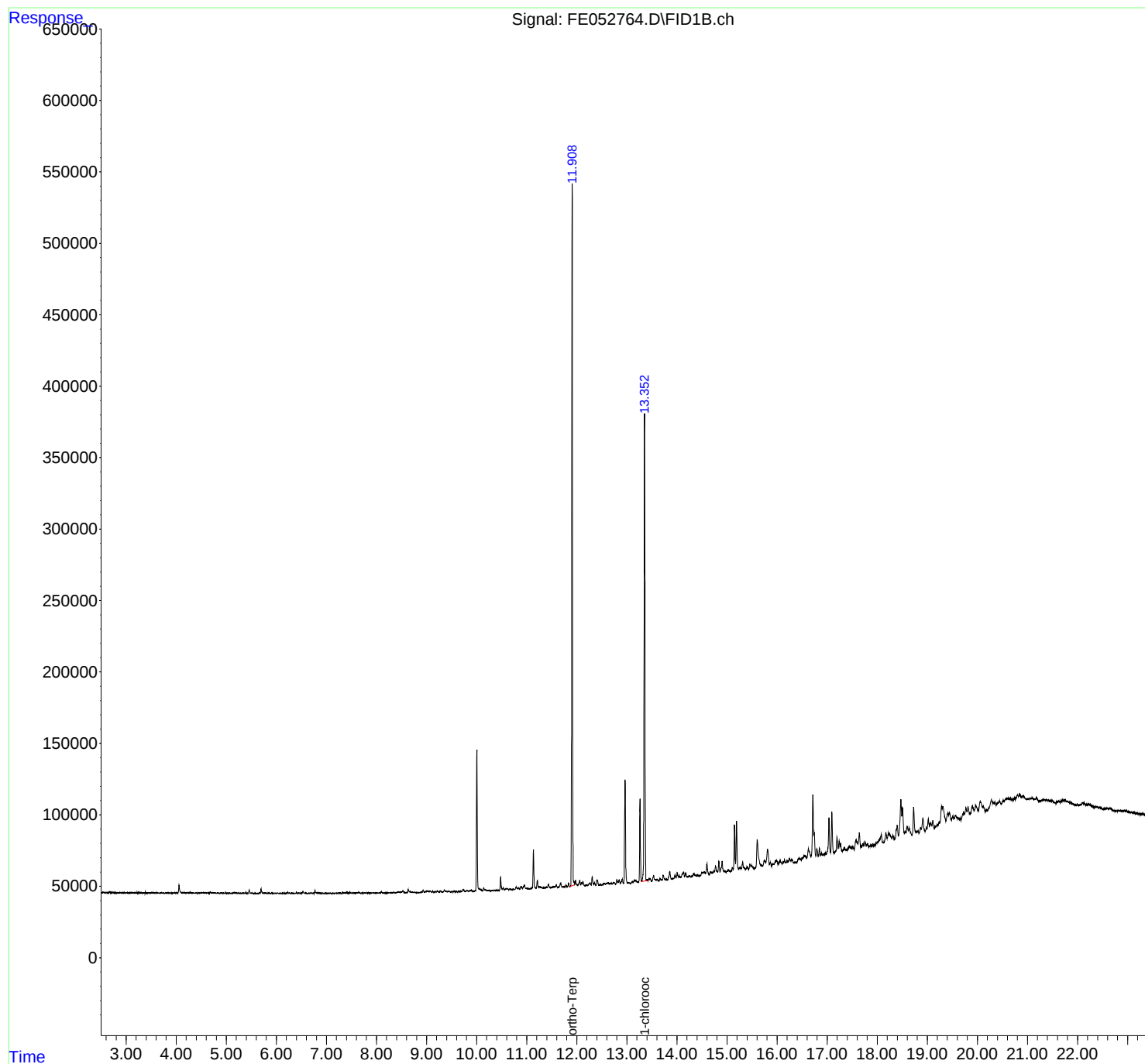
(m)=manual int.

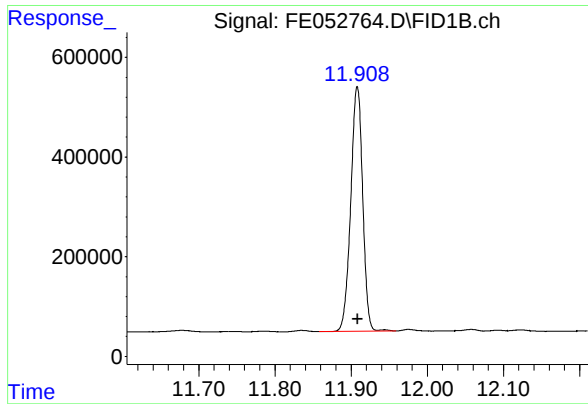
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052764.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 14:37
Operator : YP\AJ
Sample : Q1542-05
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
3

Integration File: autoint1.e
Quant Time: Mar 13 03:56:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

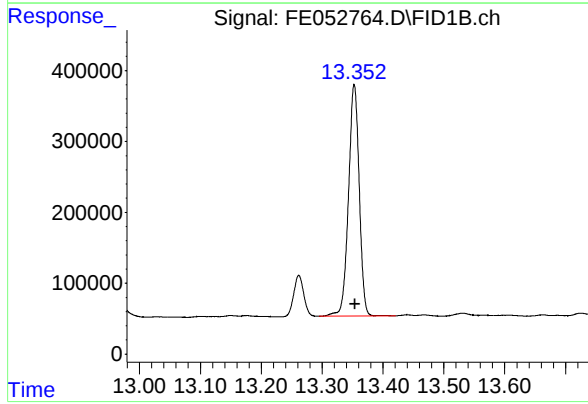




#9 ortho-Terphenyl (SURR)

R.T.: 11.908 min
Delta R.T.: 0.000 min
Response: 5350576
Conc: 31.74 ug/ml

Instrument :
FID_E
ClientSampleId :
3



#12 1-chlorooctadecane (SURR)

R.T.: 13.353 min
Delta R.T.: -0.001 min
Response: 4007844
Conc: 33.01 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052764.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 14:37
 Sample : Q1542-05
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.845	2.839	2.855	PV	26	138	0.00%	0.000%
2	2.884	2.855	2.927	VV	267	5167	0.10%	0.011%
3	2.938	2.927	2.955	VV	151	1928	0.04%	0.004%
4	2.967	2.955	3.018	VV	225	5181	0.10%	0.011%
5	3.022	3.018	3.058	VV	112	1883	0.04%	0.004%
6	3.060	3.058	3.093	VV	120	1132	0.02%	0.002%
7	3.123	3.093	3.165	PV	182	4723	0.09%	0.010%
8	3.173	3.165	3.209	VV	119	2097	0.04%	0.005%
9	3.221	3.209	3.272	PV	489	5100	0.10%	0.011%
10	3.287	3.272	3.318	VV	126	1349	0.03%	0.003%
11	3.382	3.318	3.455	VV	286	5712	0.11%	0.012%
12	3.486	3.455	3.511	VV	144	2883	0.05%	0.006%
13	3.530	3.511	3.574	VV	221	4659	0.09%	0.010%
14	3.606	3.574	3.683	VV	361	7794	0.15%	0.017%
15	3.701	3.683	3.738	VV	203	3176	0.06%	0.007%
16	3.747	3.738	3.771	VV	102	1345	0.03%	0.003%
17	3.781	3.771	3.811	VV	97	848	0.02%	0.002%
18	3.836	3.811	3.918	PV	173	4829	0.09%	0.010%
19	3.935	3.918	3.947	VV	126	1552	0.03%	0.003%
20	3.965	3.947	4.012	VV	335	5894	0.11%	0.013%
21	4.022	4.012	4.035	VV	54	671	0.01%	0.001%
22	4.056	4.035	4.134	VV	5749	86867	1.62%	0.186%
23	4.149	4.134	4.189	VV	404	9929	0.19%	0.021%
24	4.206	4.189	4.214	VV	220	3107	0.06%	0.007%
25	4.231	4.214	4.254	VV	483	7275	0.14%	0.016%
26	4.278	4.254	4.331	VV	609	14221	0.27%	0.031%
27	4.343	4.331	4.385	VV	226	5158	0.10%	0.011%
28	4.394	4.385	4.435	VV	106	2984	0.06%	0.006%
29	4.462	4.435	4.472	VV	142	2457	0.05%	0.005%
30	4.511	4.472	4.525	VV	477	7623	0.14%	0.016%
31	4.535	4.525	4.605	VV	484	16904	0.32%	0.036%
32	4.620	4.605	4.654	VV	259	5175	0.10%	0.011%
33	4.681	4.654	4.713	VV	902	13741	0.26%	0.029%
34	4.736	4.713	4.784	VV	417	12312	0.23%	0.026%
35	4.793	4.784	4.811	VV	194	3313	0.06%	0.007%
36	4.825	4.811	4.877	VV	280	6080	0.11%	0.013%

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37	4.902	4.877	4.918	VV	259	4756	0.09%	0.010%
38	4.930	4.918	4.961	VV	229	4507	0.08%	0.010%
39	4.968	4.961	5.005	VV	241	4361	0.08%	0.009%
40	5.013	5.005	5.047	VV	247	3629	0.07%	0.008%
41	5.064	5.047	5.082	VV	245	2941	0.05%	0.006%
42	5.097	5.082	5.115	VV	157	1871	0.03%	0.004%
43	5.156	5.115	5.204	VV	631	17343	0.32%	0.037%
44	5.220	5.204	5.288	VV	222	6910	0.13%	0.015%
45	5.301	5.288	5.318	VV	142	1939	0.04%	0.004%
46	5.333	5.318	5.379	VV	241	4514	0.08%	0.010%
47	5.388	5.379	5.396	VV	442	1315	0.02%	0.003%
48	5.422	5.396	5.433	VV	141	2094	0.04%	0.004%
49	5.458	5.433	5.549	VV	2396	34453	0.64%	0.074%
50	5.557	5.549	5.565	VV	88	741	0.01%	0.002%
51	5.587	5.565	5.615	VV	119	2190	0.04%	0.005%
52	5.618	5.615	5.631	VV	89	245	0.00%	0.001%
53	5.655	5.631	5.670	PV	377	4714	0.09%	0.010%
54	5.694	5.670	5.754	VV	3318	50081	0.93%	0.107%
55	5.770	5.754	5.798	VV	400	7300	0.14%	0.016%
56	5.812	5.798	5.828	VV	262	3610	0.07%	0.008%
57	5.844	5.828	5.872	VV	255	5307	0.10%	0.011%
58	5.918	5.872	5.938	VV	271	7321	0.14%	0.016%
59	5.945	5.938	5.960	VV	242	2902	0.05%	0.006%
60	5.971	5.960	5.981	VV	241	2710	0.05%	0.006%
61	5.990	5.981	6.010	VV	283	2896	0.05%	0.006%
62	6.027	6.010	6.094	VV	307	7761	0.14%	0.017%
63	6.128	6.094	6.158	VV	268	6020	0.11%	0.013%
64	6.168	6.158	6.179	VV	226	2092	0.04%	0.004%
65	6.192	6.179	6.201	VV	161	1848	0.03%	0.004%
66	6.227	6.201	6.323	VV	667	18756	0.35%	0.040%
67	6.330	6.323	6.361	VV	140	2660	0.05%	0.006%
68	6.403	6.361	6.433	VV	726	13906	0.26%	0.030%
69	6.453	6.433	6.471	VV	283	5081	0.09%	0.011%
70	6.490	6.471	6.502	VV	168	2948	0.05%	0.006%
71	6.529	6.502	6.571	VV	1565	22330	0.42%	0.048%
72	6.582	6.571	6.601	VV	245	3493	0.07%	0.007%
73	6.612	6.601	6.625	VV	220	2286	0.04%	0.005%
74	6.644	6.625	6.670	VV	216	4025	0.08%	0.009%
75	6.691	6.670	6.748	VV	448	8507	0.16%	0.018%
76	6.772	6.748	6.827	VV	1609	26051	0.49%	0.056%
77	6.841	6.827	6.875	VV	276	5506	0.10%	0.012%
78	6.883	6.875	6.911	VV	133	2410	0.04%	0.005%
79	6.922	6.911	6.945	VV	160	1927	0.04%	0.004%
80	6.975	6.945	6.994	VV	205	3603	0.07%	0.008%
81	7.022	6.994	7.063	VV	152	3390	0.06%	0.007%
82	7.097	7.063	7.116	VV	172	3095	0.06%	0.007%
83	7.145	7.116	7.161	PV	137	2555	0.05%	0.005%
84	7.231	7.161	7.249	VV	388	10500	0.20%	0.023%
85	7.264	7.249	7.298	VV	312	5991	0.11%	0.013%
86	7.327	7.298	7.348	VV	621	9997	0.19%	0.021%
87	7.366	7.348	7.391	VV	433	7381	0.14%	0.016%
88	7.413	7.391	7.445	VV	520	8771	0.16%	0.019%
89	7.465	7.445	7.492	VV	490	5949	0.11%	0.013%

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90	7.511	7.492	7.535	VV	531	6618	0.12%	0.014%
91	7.543	7.535	7.565	VV	184	2067	0.04%	0.004%
92	7.614	7.565	7.624	VV	231	5919	0.11%	0.013%
93	7.642	7.624	7.695	VV	776	11412	0.21%	0.024%
94	7.703	7.695	7.710	VV	120	959	0.02%	0.002%
95	7.721	7.710	7.765	VV	224	2984	0.06%	0.006%
96	7.773	7.765	7.795	VV	146	1593	0.03%	0.003%
97	7.818	7.795	7.851	VV	187	3151	0.06%	0.007%
98	7.874	7.851	7.905	PV	137	2076	0.04%	0.004%
99	7.928	7.905	8.011	VV	369	6442	0.12%	0.014%
100	8.072	8.011	8.081	PV	394	7579	0.14%	0.016%
101	8.097	8.081	8.120	VV	694	10436	0.19%	0.022%
102	8.134	8.120	8.153	VV	267	3083	0.06%	0.007%
103	8.220	8.153	8.240	VV	279	4999	0.09%	0.011%
104	8.255	8.240	8.266	VV	233	2482	0.05%	0.005%
105	8.278	8.266	8.313	VV	235	3435	0.06%	0.007%
106	8.345	8.313	8.375	VV	602	9881	0.18%	0.021%
107	8.419	8.375	8.433	VV	624	12036	0.22%	0.026%
108	8.448	8.433	8.464	VV	732	10032	0.19%	0.022%
109	8.493	8.464	8.504	VV	702	13302	0.25%	0.029%
110	8.526	8.504	8.585	VV	1631	28953	0.54%	0.062%
111	8.635	8.585	8.668	VV	2243	41014	0.77%	0.088%
112	8.678	8.668	8.701	VV	682	10976	0.20%	0.024%
113	8.715	8.701	8.735	VV	521	7223	0.13%	0.015%
114	8.753	8.735	8.811	VV	316	9610	0.18%	0.021%
115	8.817	8.811	8.844	VV	151	1636	0.03%	0.004%
116	8.861	8.844	8.875	PV	183	2140	0.04%	0.005%
117	8.892	8.875	8.905	VV	461	5852	0.11%	0.013%
118	8.932	8.905	8.952	VV	1780	24743	0.46%	0.053%
119	9.009	8.952	9.036	VV	1074	37595	0.70%	0.081%
120	9.070	9.036	9.102	VV	1142	28892	0.54%	0.062%
121	9.123	9.102	9.148	VV	796	13553	0.25%	0.029%
122	9.176	9.148	9.191	VV	489	9491	0.18%	0.020%
123	9.212	9.191	9.235	VV	970	14716	0.27%	0.032%
124	9.275	9.235	9.315	VV	1093	21995	0.41%	0.047%
125	9.357	9.315	9.427	VV	1764	39618	0.74%	0.085%
126	9.447	9.427	9.475	VV	613	7914	0.15%	0.017%
127	9.504	9.475	9.524	VV	399	6246	0.12%	0.013%
128	9.557	9.524	9.575	PV	707	11108	0.21%	0.024%
129	9.588	9.575	9.609	VV	251	3657	0.07%	0.008%
130	9.643	9.609	9.671	VV	426	7568	0.14%	0.016%
131	9.687	9.671	9.705	VV	282	3157	0.06%	0.007%
132	9.728	9.705	9.781	VV	1551	32927	0.61%	0.071%
133	9.807	9.781	9.846	VV	826	18308	0.34%	0.039%
134	9.889	9.846	9.920	VV	769	23223	0.43%	0.050%
135	9.928	9.920	9.951	VV	348	4952	0.09%	0.011%
136	10.005	9.951	10.075	VV	98914	1113143	20.77%	2.388%
137	10.076	10.075	10.118	VV	1239	19265	0.36%	0.041%
138	10.143	10.118	10.165	VV	2207	34772	0.65%	0.075%
139	10.173	10.165	10.199	VV	972	13401	0.25%	0.029%
140	10.243	10.199	10.281	VV	549	14124	0.26%	0.030%
141	10.312	10.281	10.348	PV	407	8086	0.15%	0.017%

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142	10.389	10.348	10.398	VV	234	3219	0.06%	0.007%
143	10.416	10.398	10.433	VV	164	1996	0.04%	0.004%
144	10.480	10.433	10.509	PV	9294	114870	2.14%	0.246%
145	10.531	10.509	10.554	VV	1694	30507	0.57%	0.065%
146	10.584	10.554	10.598	VV	1119	22826	0.43%	0.049%
147	10.616	10.598	10.641	VV	1095	21644	0.40%	0.046%
148	10.676	10.641	10.705	VV	711	15432	0.29%	0.033%
149	10.729	10.705	10.761	VV	603	11642	0.22%	0.025%
150	10.789	10.761	10.821	VV	1966	36573	0.68%	0.078%
151	10.837	10.821	10.855	VV	1134	16466	0.31%	0.035%
152	10.885	10.855	10.918	VV	2225	43801	0.82%	0.094%
153	10.954	10.918	11.053	VV	3073	83286	1.55%	0.179%
154	11.079	11.053	11.087	VV	349	4498	0.08%	0.010%
155	11.136	11.087	11.185	VV	27521	329269	6.14%	0.706%
156	11.212	11.185	11.235	VV	5722	75106	1.40%	0.161%
157	11.245	11.235	11.268	VV	1340	22562	0.42%	0.048%
158	11.279	11.268	11.328	VV	1027	22451	0.42%	0.048%
159	11.369	11.328	11.377	VV	398	9168	0.17%	0.020%
160	11.392	11.377	11.408	VV	717	9036	0.17%	0.019%
161	11.433	11.408	11.471	VV	2843	46338	0.86%	0.099%
162	11.524	11.471	11.541	VV	865	18698	0.35%	0.040%
163	11.561	11.541	11.571	VV	1026	13562	0.25%	0.029%
164	11.589	11.571	11.620	VV	1991	30299	0.57%	0.065%
165	11.678	11.620	11.720	VV	3256	65949	1.23%	0.142%
166	11.745	11.720	11.762	VV	603	9611	0.18%	0.021%
167	11.785	11.762	11.810	VV	1315	17035	0.32%	0.037%
168	11.835	11.810	11.860	PV	2798	35573	0.66%	0.076%
169	11.908	11.860	11.936	VV	492927	5360348	100.00%	11.501%
170	11.943	11.936	11.959	VV	3820	38621	0.72%	0.083%
171	11.976	11.959	12.005	VV	4460	69584	1.30%	0.149%
172	12.058	12.005	12.076	VV	4289	87961	1.64%	0.189%
173	12.093	12.076	12.106	VV	2612	33417	0.62%	0.072%
174	12.122	12.106	12.158	VV	3272	51278	0.96%	0.110%
175	12.176	12.158	12.184	VV	541	6387	0.12%	0.014%
176	12.203	12.184	12.222	VV	897	13979	0.26%	0.030%
177	12.262	12.222	12.285	VV	2112	47442	0.89%	0.102%
178	12.308	12.285	12.335	VV	6185	87890	1.64%	0.189%
179	12.352	12.335	12.375	VV	2072	29592	0.55%	0.063%
180	12.404	12.375	12.440	VV	3867	73379	1.37%	0.157%
181	12.480	12.440	12.502	VV	620	11711	0.22%	0.025%
182	12.542	12.502	12.571	VV	981	26799	0.50%	0.058%
183	12.595	12.571	12.604	VV	1276	18260	0.34%	0.039%
184	12.622	12.604	12.645	VV	1500	27846	0.52%	0.060%
185	12.685	12.645	12.708	VV	1018	30264	0.56%	0.065%
186	12.735	12.708	12.776	VV	1335	32563	0.61%	0.070%
187	12.800	12.776	12.819	VV	3241	43715	0.82%	0.094%
188	12.846	12.819	12.868	VV	3129	54295	1.01%	0.116%
189	12.906	12.868	12.935	VV	3539	67593	1.26%	0.145%
190	12.963	12.935	13.014	VV	72520	891702	16.64%	1.913%
191	13.028	13.014	13.047	VV	797	11564	0.22%	0.025%
192	13.057	13.047	13.077	VV	456	5237	0.10%	0.011%
193	13.103	13.077	13.118	PV	1240	17951	0.33%	0.039%
194	13.150	13.118	13.164	VV	2355	39634	0.74%	0.085%

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195	13.176	13.164	13.229	VV	2148	41831	0.78%	0.090%
196	13.262	13.229	13.295	VV	58667	682170	12.73%	1.464%
197	13.353	13.295	13.388	VV	327727	4047799	75.51%	8.685%
198	13.401	13.388	13.420	VV	1544	26300	0.49%	0.056%
199	13.439	13.420	13.454	VV	2410	34683	0.65%	0.074%
200	13.468	13.454	13.498	VV	2129	33851	0.63%	0.073%
201	13.531	13.498	13.582	VV	4275	96952	1.81%	0.208%
202	13.607	13.582	13.635	VV	1242	25789	0.48%	0.055%
203	13.662	13.635	13.679	PV	1475	17694	0.33%	0.038%
204	13.687	13.679	13.705	VV	772	7930	0.15%	0.017%
205	13.725	13.705	13.772	VV	3620	65063	1.21%	0.140%
206	13.794	13.772	13.812	VV	616	7885	0.15%	0.017%
207	13.856	13.812	13.885	PV	5837	103273	1.93%	0.222%
208	13.922	13.885	13.935	VV	741	12611	0.24%	0.027%
209	13.964	13.935	13.984	VV	2809	43476	0.81%	0.093%
210	14.005	13.984	14.027	VV	4382	61704	1.15%	0.132%
211	14.043	14.027	14.073	VV	1921	34246	0.64%	0.073%
212	14.109	14.073	14.117	VV	3139	49545	0.92%	0.106%
213	14.131	14.117	14.152	VV	4281	60742	1.13%	0.130%
214	14.174	14.152	14.212	VV	3607	59535	1.11%	0.128%
215	14.254	14.212	14.274	VV	938	20310	0.38%	0.044%
216	14.339	14.274	14.398	PV	2146	66940	1.25%	0.144%
217	14.403	14.398	14.429	VV	499	6487	0.12%	0.014%
218	14.444	14.429	14.455	VV	327	3230	0.06%	0.007%
219	14.498	14.455	14.513	VV	2455	40393	0.75%	0.087%
220	14.545	14.513	14.570	VV	2347	68209	1.27%	0.146%
221	14.597	14.570	14.650	VV	7806	130442	2.43%	0.280%
222	14.675	14.650	14.691	VV	1913	30125	0.56%	0.065%
223	14.702	14.691	14.716	VV	1489	19249	0.36%	0.041%
224	14.734	14.716	14.747	VV	2255	30110	0.56%	0.065%
225	14.770	14.747	14.811	VV	5686	112633	2.10%	0.242%
226	14.835	14.811	14.859	VV	8610	119016	2.22%	0.255%
227	14.900	14.859	14.940	VV	8248	163383	3.05%	0.351%
228	14.955	14.940	14.981	VV	1201	17634	0.33%	0.038%
229	14.997	14.981	15.007	VV	654	9012	0.17%	0.019%
230	15.024	15.007	15.055	VV	1570	28314	0.53%	0.061%
231	15.070	15.055	15.081	VV	705	8438	0.16%	0.018%
232	15.104	15.081	15.119	VV	2870	37633	0.70%	0.081%
233	15.148	15.119	15.168	VV	32288	398182	7.43%	0.854%
234	15.188	15.168	15.231	VV	34797	469529	8.76%	1.007%
235	15.261	15.231	15.278	VV	2315	47864	0.89%	0.103%
236	15.311	15.278	15.371	VV	5838	121135	2.26%	0.260%
237	15.400	15.371	15.431	VV	1977	36948	0.69%	0.079%
238	15.456	15.431	15.477	PV	3673	54807	1.02%	0.118%
239	15.489	15.477	15.541	VV	2473	45297	0.85%	0.097%
240	15.602	15.541	15.683	PV	19782	485251	9.05%	1.041%
241	15.694	15.683	15.711	VV	1413	20906	0.39%	0.045%
242	15.750	15.711	15.770	VV	4678	113292	2.11%	0.243%
243	15.807	15.770	15.845	VV	11989	302821	5.65%	0.650%
244	15.862	15.845	15.895	VV	2816	43436	0.81%	0.093%
245	15.915	15.895	15.935	VV	1610	26191	0.49%	0.056%
246	15.986	15.935	16.025	VV	3444	123459	2.30%	0.265%

					rteres			
247	16.061	16.025	16.099	VV	2995	78695	1.47%	0.169%
248	16.149	16.099	16.173	VV	2699	71025	1.33%	0.152%
249	16.195	16.173	16.215	VV	2341	42149	0.79%	0.090%
250	16.241	16.215	16.281	VV	3118	91393	1.70%	0.196%
251	16.295	16.281	16.350	VV	2643	53051	0.99%	0.114%
252	16.368	16.350	16.385	VV	281	3398	0.06%	0.007%
253	16.447	16.385	16.481	PV	2940	97941	1.83%	0.210%
254	16.499	16.481	16.511	VV	2446	35635	0.66%	0.076%
255	16.560	16.511	16.594	VV	3734	139571	2.60%	0.299%
256	16.624	16.594	16.672	VV	8034	233343	4.35%	0.501%
257	16.713	16.672	16.774	VV	44868	940367	17.54%	2.018%
258	16.795	16.774	16.821	VV	6538	105083	1.96%	0.225%
259	16.844	16.821	16.866	VV	7086	100771	1.88%	0.216%
260	16.884	16.866	16.919	VV	2864	67472	1.26%	0.145%
261	16.938	16.919	16.947	VV	1917	31326	0.58%	0.067%
262	16.964	16.947	16.982	VV	2536	44290	0.83%	0.095%
263	17.035	16.982	17.064	VV	26841	442522	8.26%	0.949%
264	17.092	17.064	17.139	VV	30628	458099	8.55%	0.983%
265	17.195	17.139	17.221	VV	11645	237317	4.43%	0.509%
266	17.238	17.221	17.254	VV	9138	136741	2.55%	0.293%
267	17.267	17.254	17.293	VV	7144	107796	2.01%	0.231%
268	17.339	17.293	17.392	VV	3154	129447	2.41%	0.278%
269	17.457	17.392	17.495	VV	3486	161636	3.02%	0.347%
270	17.505	17.495	17.540	VV	2951	61260	1.14%	0.131%
271	17.575	17.540	17.614	VV	7261	231618	4.32%	0.497%
272	17.641	17.614	17.692	VV	12052	262506	4.90%	0.563%
273	17.714	17.692	17.734	VV	3785	76802	1.43%	0.165%
274	17.754	17.734	17.783	VV	4757	98736	1.84%	0.212%
275	17.802	17.783	17.835	VV	2943	65583	1.22%	0.141%
276	17.859	17.835	17.885	VV	1760	40961	0.76%	0.088%
277	17.911	17.885	17.951	VV	1788	46511	0.87%	0.100%
278	18.080	17.951	18.115	VV	7637	343950	6.42%	0.738%
279	18.172	18.115	18.195	VV	8292	201678	3.76%	0.433%
280	18.224	18.195	18.239	VV	7807	162393	3.03%	0.348%
281	18.248	18.239	18.289	VV	6623	157755	2.94%	0.338%
282	18.309	18.289	18.350	VV	5147	142008	2.65%	0.305%
283	18.398	18.350	18.424	VV	11688	317323	5.92%	0.681%
284	18.471	18.424	18.490	VV	29425	658999	12.29%	1.414%
285	18.505	18.490	18.542	VV	23482	442258	8.25%	0.949%
286	18.557	18.542	18.571	VV	6448	101856	1.90%	0.219%
287	18.600	18.571	18.620	VV	9480	222338	4.15%	0.477%
288	18.636	18.620	18.691	VV	8453	242721	4.53%	0.521%
289	18.726	18.691	18.778	VV	22115	470216	8.77%	1.009%
290	18.804	18.778	18.833	VV	4983	149006	2.78%	0.320%
291	18.866	18.833	18.879	VV	6794	148572	2.77%	0.319%
292	18.912	18.879	18.957	VV	13507	357476	6.67%	0.767%
293	18.982	18.957	18.993	VV	5912	107936	2.01%	0.232%
294	19.018	18.993	19.046	VV	12061	272300	5.08%	0.584%
295	19.069	19.046	19.089	VV	9092	202428	3.78%	0.434%
296	19.109	19.089	19.138	VV	10143	211354	3.94%	0.453%
297	19.198	19.138	19.209	VV	6612	246229	4.59%	0.528%
298	19.235	19.209	19.248	VV	8003	163308	3.05%	0.350%
299	19.284	19.248	19.299	VV	18854	428322	7.99%	0.919%

					rteres			
300	19.311	19.299	19.373	VV	18469	605875	11.30%	1.300%
301	19.413	19.373	19.427	VV	13124	365444	6.82%	0.784%
302	19.442	19.427	19.478	VV	13651	342597	6.39%	0.735%
303	19.507	19.478	19.530	VV	10250	288985	5.39%	0.620%
304	19.561	19.530	19.595	VV	10477	366145	6.83%	0.786%
305	19.608	19.595	19.635	VV	8622	194002	3.62%	0.416%
306	19.654	19.635	19.671	VV	8011	160981	3.00%	0.345%
307	19.725	19.671	19.742	VV	11439	404255	7.54%	0.867%
308	19.770	19.742	19.795	VV	14589	389752	7.27%	0.836%
309	19.813	19.795	19.845	VV	14913	369257	6.89%	0.792%
310	19.895	19.845	19.936	VV	14366	659449	12.30%	1.415%
311	19.965	19.936	20.015	VV	14981	601722	11.23%	1.291%
312	20.054	20.015	20.108	VV	16968	784704	14.64%	1.684%
313	20.115	20.108	20.156	VV	12826	325450	6.07%	0.698%
314	20.178	20.156	20.198	VV	10333	243073	4.53%	0.522%
315	20.278	20.198	20.305	VV	16038	812521	15.16%	1.743%
316	20.314	20.305	20.330	VV	14131	212326	3.96%	0.456%
317	20.348	20.330	20.371	VV	14354	335069	6.25%	0.719%
318	20.444	20.371	20.481	VV	14286	857982	16.01%	1.841%
319	20.520	20.481	20.532	VV	13975	411676	7.68%	0.883%
320	20.578	20.532	20.587	VV	15141	469783	8.76%	1.008%
321	20.601	20.587	20.611	VV	15024	219251	4.09%	0.470%
322	20.625	20.611	20.636	VV	14971	216571	4.04%	0.465%
323	20.652	20.636	20.675	VV	14534	336152	6.27%	0.721%
324	20.686	20.675	20.711	VV	13835	289712	5.40%	0.622%
325	20.739	20.711	20.764	VV	14020	440912	8.23%	0.946%
326	20.802	20.764	20.820	VV	16236	504761	9.42%	1.083%
327	20.841	20.820	20.881	VV	16090	553133	10.32%	1.187%
328	20.915	20.881	20.997	VV	14491	917792	17.12%	1.969%
329	21.011	20.997	21.021	VV	11723	165431	3.09%	0.355%
330	21.065	21.021	21.078	VV	11830	396378	7.39%	0.850%
331	21.100	21.078	21.141	VV	11705	420182	7.84%	0.902%
332	21.177	21.141	21.261	VV	11179	708975	13.23%	1.521%
333	21.333	21.261	21.359	VV	9034	511256	9.54%	1.097%
334	21.371	21.359	21.408	VV	8716	239778	4.47%	0.514%
335	21.427	21.408	21.456	VV	7864	217039	4.05%	0.466%
336	21.471	21.456	21.568	VV	7211	417437	7.79%	0.896%
337	21.623	21.568	21.651	VV	6034	273738	5.11%	0.587%
338	21.711	21.651	21.746	VV	6068	317346	5.92%	0.681%
339	21.756	21.746	21.939	VV	5280	387859	7.24%	0.832%
340	21.958	21.939	21.978	VV	983	19870	0.37%	0.043%
341	21.992	21.978	22.028	VV	827	14913	0.28%	0.032%
342	22.044	22.028	22.056	VV	387	3927	0.07%	0.008%
Sum of corrected areas:						46606156		

Aliphatic EPH 030325.M Thu Mar 13 05:47:07 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	4	SDG No.:	Q1542
Lab Sample ID:	Q1542-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 15:08	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	21.7		1	1.97	4.56	mg/kg	FE052765.D
Total EPH	Total EPH	21.7			1.97	4.56	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	4	SDG No.:	Q1542
Lab Sample ID:	Q1542-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.2
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052765.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	21.7		1.97	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.9		2.06	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	31.6		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.3		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-06	Acq On:	12 Mar 2025 15:08
Client Sample ID:	4	Operator:	YP\AJ
Data file:	FE052765.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	3.148	6.790	739995	4.745	300	ug/ml
Aliphatic C12-C16	6.791	10.243	1792542	11.785	200	ug/ml
Aliphatic C16-C21	10.244	13.621	3909326	26.676	300	ug/ml
Aliphatic C21-C28	13.622	17.293	35125197	246.576	400	ug/ml
Aliphatic C28-C40	17.294	22.210	58418092	457.861	600	ug/ml
Aliphatic EPH	3.148	22.210	99985152	747.644		ug/ml
ortho-Terphenyl (SURR)	11.909	11.909	4944795	29.33		ug/ml
1-chlorooctadecane (SURR)	13.353	13.353	3832336	31.56		ug/ml
Aliphatic C9-C28	3.148	17.293	41567060	289.782	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052765.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 15:08
 Operator : YP\AJ
 Sample : Q1542-06
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 4

Integration File: autoint1.e
 Quant Time: Mar 13 03:56:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.909	4944795	29.331 ug/ml
Spiked Amount	50.000	Recovery	= 58.66%
12) S 1-chlorooctadecane (S...	13.353	3832336	31.561 ug/ml
Spiked Amount	50.000	Recovery	= 63.12%

Target Compounds

(f)=RT Delta > 1/2 Window

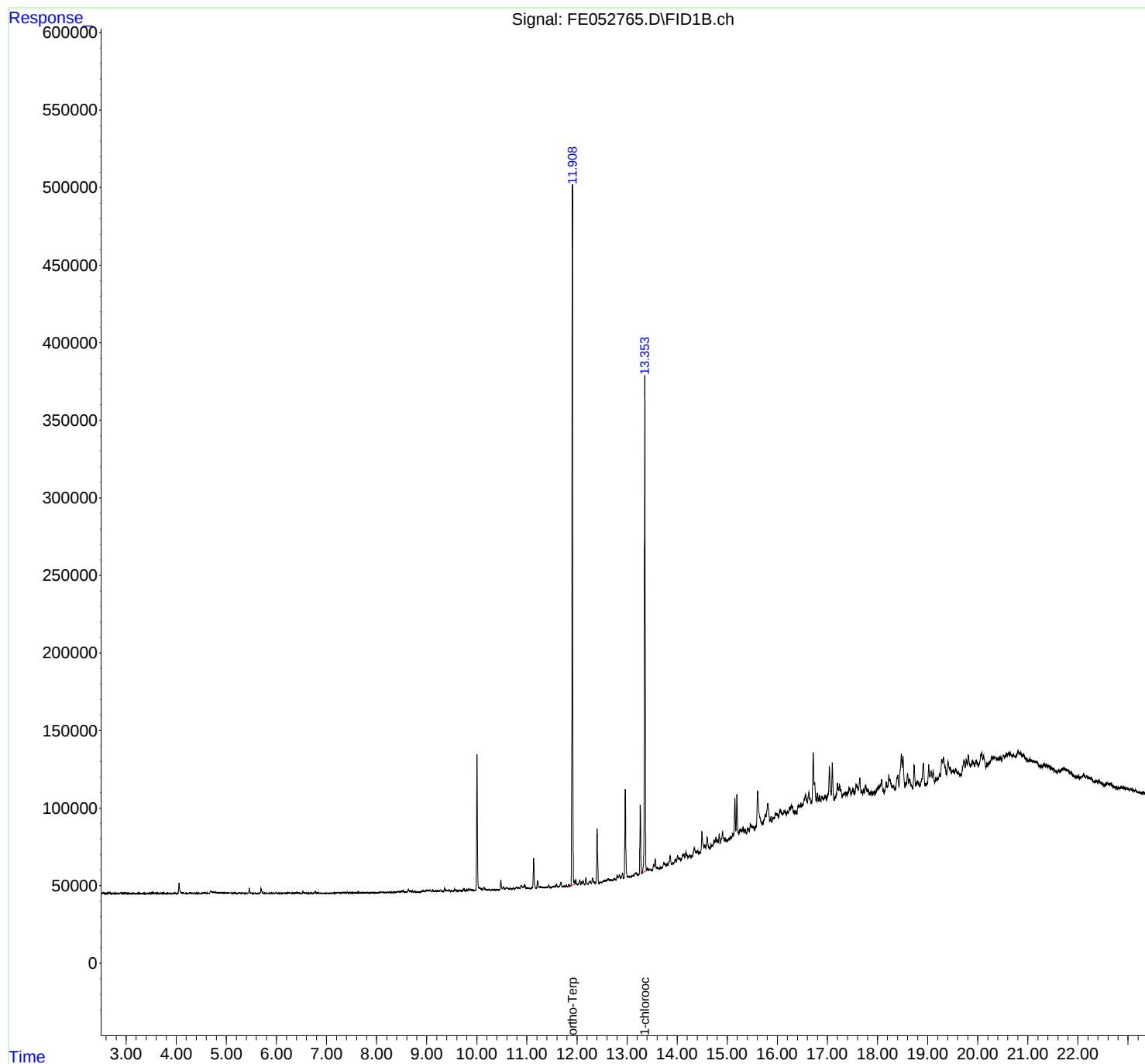
(m)=manual int.

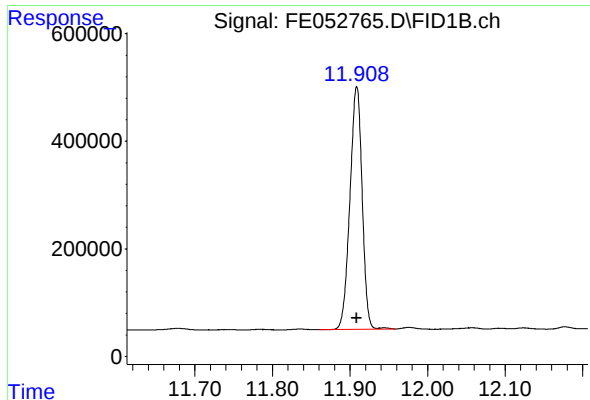
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052765.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 15:08
Operator : YP\AJ
Sample : Q1542-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
4

Integration File: autoint1.e
Quant Time: Mar 13 03:56:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

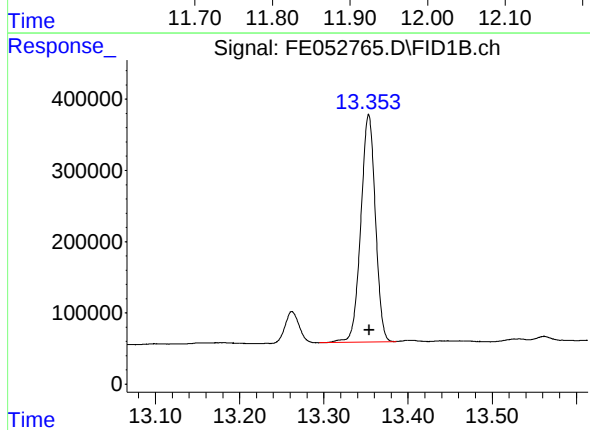




#9 ortho-Terphenyl (SURR)

R.T.: 11.909 min
Delta R.T.: 0.000 min
Response: 4944795
Conc: 29.33 ug/ml

Instrument :
FID_E
ClientSampleId :
4



#12 1-chlorooctadecane (SURR)

R.T.: 13.353 min
Delta R.T.: 0.000 min
Response: 3832336
Conc: 31.56 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052765.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 15:08
 Sample : Q1542-06
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.884	2.804	2.925	BV	272	6695	0.13%	0.006%
2	2.981	2.925	3.018	VV	301	9269	0.19%	0.009%
3	3.049	3.018	3.088	VV	94	2361	0.05%	0.002%
4	3.119	3.088	3.144	VV	250	3934	0.08%	0.004%
5	3.150	3.144	3.186	VV	121	1814	0.04%	0.002%
6	3.201	3.186	3.229	VV	77	1050	0.02%	0.001%
7	3.246	3.229	3.309	VV	291	4835	0.10%	0.004%
8	3.318	3.309	3.326	PV	65	304	0.01%	0.000%
9	3.341	3.326	3.460	VV	113	5532	0.11%	0.005%
10	3.488	3.460	3.511	VV	168	3065	0.06%	0.003%
11	3.530	3.511	3.582	VV	756	13776	0.28%	0.013%
12	3.603	3.582	3.651	VV	651	10121	0.20%	0.009%
13	3.700	3.651	3.720	VV	286	5551	0.11%	0.005%
14	3.740	3.720	3.769	VV	316	6090	0.12%	0.006%
15	3.782	3.769	3.798	VV	117	1213	0.02%	0.001%
16	3.837	3.798	3.852	VV	300	4323	0.09%	0.004%
17	3.862	3.852	3.881	VV	230	2085	0.04%	0.002%
18	3.887	3.881	3.896	VV	124	767	0.02%	0.001%
19	3.902	3.896	3.921	VV	93	887	0.02%	0.001%
20	3.965	3.921	4.020	VV	332	9258	0.19%	0.008%
21	4.056	4.020	4.134	PV	6894	104029	2.08%	0.096%
22	4.140	4.134	4.200	VV	411	11771	0.24%	0.011%
23	4.228	4.200	4.251	VV	447	8536	0.17%	0.008%
24	4.278	4.251	4.381	VV	591	21992	0.44%	0.020%
25	4.391	4.381	4.398	VV	166	1563	0.03%	0.001%
26	4.417	4.398	4.441	VV	325	5102	0.10%	0.005%
27	4.457	4.441	4.488	VV	172	3561	0.07%	0.003%
28	4.511	4.488	4.523	VV	499	6402	0.13%	0.006%
29	4.535	4.523	4.568	VV	441	9383	0.19%	0.009%
30	4.586	4.568	4.608	VV	546	9721	0.19%	0.009%
31	4.626	4.608	4.658	VV	350	7801	0.16%	0.007%
32	4.685	4.658	4.716	VV	1820	37167	0.74%	0.034%
33	4.732	4.716	4.825	VV	1141	53621	1.07%	0.049%
34	4.835	4.825	4.861	VV	618	11110	0.22%	0.010%
35	4.890	4.861	4.911	VV	592	15006	0.30%	0.014%
36	4.928	4.911	4.955	VV	533	12147	0.24%	0.011%

					rteres			
37	4.981	4.955	5.005	VV	460	12258	0.25%	0.011%
38	5.020	5.005	5.041	VV	411	7781	0.16%	0.007%
39	5.065	5.041	5.081	VV	730	11176	0.22%	0.010%
40	5.099	5.081	5.121	VV	425	7567	0.15%	0.007%
41	5.157	5.121	5.201	VV	608	15576	0.31%	0.014%
42	5.251	5.201	5.316	VV	615	17872	0.36%	0.016%
43	5.333	5.316	5.354	VV	349	5703	0.11%	0.005%
44	5.367	5.354	5.381	VV	229	2721	0.05%	0.002%
45	5.394	5.381	5.411	VV	273	3462	0.07%	0.003%
46	5.427	5.411	5.438	VV	437	5130	0.10%	0.005%
47	5.458	5.438	5.518	VV	3293	42499	0.85%	0.039%
48	5.532	5.518	5.558	VV	209	3496	0.07%	0.003%
49	5.579	5.558	5.636	VV	314	5960	0.12%	0.005%
50	5.658	5.636	5.666	PV	394	4475	0.09%	0.004%
51	5.694	5.666	5.751	VV	3144	50118	1.00%	0.046%
52	5.771	5.751	5.804	VV	334	7687	0.15%	0.007%
53	5.847	5.804	5.874	VV	313	9371	0.19%	0.009%
54	5.895	5.874	5.903	VV	266	3741	0.07%	0.003%
55	5.917	5.903	5.933	VV	269	4065	0.08%	0.004%
56	5.983	5.933	6.018	VV	417	12419	0.25%	0.011%
57	6.034	6.018	6.097	VV	229	5584	0.11%	0.005%
58	6.130	6.097	6.151	VV	306	4768	0.10%	0.004%
59	6.197	6.151	6.207	VV	203	4454	0.09%	0.004%
60	6.228	6.207	6.247	VV	554	8689	0.17%	0.008%
61	6.262	6.247	6.353	VV	489	13483	0.27%	0.012%
62	6.374	6.353	6.386	VV	393	4721	0.09%	0.004%
63	6.403	6.386	6.435	VV	629	10505	0.21%	0.010%
64	6.453	6.435	6.482	VV	322	5906	0.12%	0.005%
65	6.486	6.482	6.498	VV	158	1266	0.03%	0.001%
66	6.529	6.498	6.633	VV	1187	24325	0.49%	0.022%
67	6.644	6.633	6.669	VV	244	2988	0.06%	0.003%
68	6.689	6.669	6.741	VV	391	6568	0.13%	0.006%
69	6.772	6.741	6.833	VV	1449	24078	0.48%	0.022%
70	6.843	6.833	6.874	VV	324	4218	0.08%	0.004%
71	6.882	6.874	6.903	VV	163	1402	0.03%	0.001%
72	6.972	6.903	7.008	VV	136	4047	0.08%	0.004%
73	7.038	7.008	7.050	PV	117	2008	0.04%	0.002%
74	7.061	7.050	7.071	PV	85	741	0.01%	0.001%
75	7.100	7.071	7.135	VV	178	3659	0.07%	0.003%
76	7.145	7.135	7.165	VV	305	2400	0.05%	0.002%
77	7.230	7.165	7.253	VV	417	14564	0.29%	0.013%
78	7.264	7.253	7.294	VV	393	7602	0.15%	0.007%
79	7.326	7.294	7.350	VV	622	12253	0.25%	0.011%
80	7.365	7.350	7.393	VV	547	9379	0.19%	0.009%
81	7.413	7.393	7.450	VV	542	10472	0.21%	0.010%
82	7.467	7.450	7.491	VV	371	4991	0.10%	0.005%
83	7.510	7.491	7.528	VV	469	6825	0.14%	0.006%
84	7.541	7.528	7.571	VV	211	4147	0.08%	0.004%
85	7.594	7.571	7.604	VV	271	4291	0.09%	0.004%
86	7.642	7.604	7.664	VV	730	13630	0.27%	0.013%
87	7.674	7.664	7.694	VV	202	3066	0.06%	0.003%
88	7.710	7.694	7.731	VV	152	3141	0.06%	0.003%
89	7.760	7.731	7.781	VV	306	5301	0.11%	0.005%

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90	7.816	7.781	7.848	VV	335	8188	0.16%	0.008%
91	7.872	7.848	7.890	VV	169	2236	0.04%	0.002%
92	7.927	7.890	7.974	VV	493	9855	0.20%	0.009%
93	7.983	7.974	7.998	VV	176	1264	0.03%	0.001%
94	8.072	7.998	8.084	PV	528	11721	0.23%	0.011%
95	8.098	8.084	8.116	VV	758	10145	0.20%	0.009%
96	8.133	8.116	8.151	VV	396	6404	0.13%	0.006%
97	8.173	8.151	8.191	VV	264	4428	0.09%	0.004%
98	8.216	8.191	8.241	VV	368	6701	0.13%	0.006%
99	8.255	8.241	8.271	VV	514	6639	0.13%	0.006%
100	8.276	8.271	8.304	VV	302	4328	0.09%	0.004%
101	8.346	8.304	8.368	VV	594	12364	0.25%	0.011%
102	8.419	8.368	8.435	VV	660	18198	0.36%	0.017%
103	8.445	8.435	8.463	VV	599	8726	0.17%	0.008%
104	8.496	8.463	8.510	VV	881	18231	0.37%	0.017%
105	8.528	8.510	8.573	VV	1618	29107	0.58%	0.027%
106	8.635	8.573	8.667	VV	2217	45403	0.91%	0.042%
107	8.684	8.667	8.701	VV	996	15130	0.30%	0.014%
108	8.715	8.701	8.732	VV	732	10136	0.20%	0.009%
109	8.752	8.732	8.801	VV	556	15233	0.31%	0.014%
110	8.818	8.801	8.841	VV	292	4089	0.08%	0.004%
111	8.932	8.841	8.968	PV	878	33726	0.68%	0.031%
112	8.985	8.968	8.994	VV	1128	14048	0.28%	0.013%
113	9.009	8.994	9.034	VV	1112	24435	0.49%	0.022%
114	9.070	9.034	9.108	VV	1205	35882	0.72%	0.033%
115	9.125	9.108	9.141	VV	969	13610	0.27%	0.012%
116	9.152	9.141	9.164	VV	556	7084	0.14%	0.007%
117	9.179	9.164	9.198	VV	617	9766	0.20%	0.009%
118	9.214	9.198	9.236	VV	789	12024	0.24%	0.011%
119	9.275	9.236	9.330	VV	1253	29469	0.59%	0.027%
120	9.359	9.330	9.424	VV	1839	43379	0.87%	0.040%
121	9.448	9.424	9.472	VV	1007	14326	0.29%	0.013%
122	9.504	9.472	9.525	VV	368	7547	0.15%	0.007%
123	9.558	9.525	9.581	VV	1319	19773	0.40%	0.018%
124	9.590	9.581	9.620	VV	425	5796	0.12%	0.005%
125	9.643	9.620	9.681	VV	549	10917	0.22%	0.010%
126	9.692	9.681	9.706	VV	377	3987	0.08%	0.004%
127	9.743	9.706	9.781	VV	1218	32001	0.64%	0.029%
128	9.807	9.781	9.844	VV	856	21555	0.43%	0.020%
129	9.866	9.844	9.947	VV	1174	35725	0.72%	0.033%
130	10.005	9.947	10.042	VV	87479	949344	19.02%	0.872%
131	10.051	10.042	10.120	VV	1925	55089	1.10%	0.051%
132	10.144	10.120	10.202	VV	2232	46396	0.93%	0.043%
133	10.244	10.202	10.281	VV	603	16230	0.33%	0.015%
134	10.312	10.281	10.360	PV	473	11345	0.23%	0.010%
135	10.388	10.360	10.401	VV	298	5127	0.10%	0.005%
136	10.412	10.401	10.435	VV	210	3014	0.06%	0.003%
137	10.481	10.435	10.509	PV	6164	77572	1.55%	0.071%
138	10.531	10.509	10.555	VV	1704	29836	0.60%	0.027%
139	10.589	10.555	10.601	VV	1093	23658	0.47%	0.022%
140	10.614	10.601	10.641	VV	1098	19091	0.38%	0.018%
141	10.680	10.641	10.703	VV	706	18200	0.36%	0.017%

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142	10.730	10.703	10.755	VV	661	12191	0.24%	0.011%
143	10.790	10.755	10.823	VV	1353	31196	0.63%	0.029%
144	10.838	10.823	10.857	VV	1169	16638	0.33%	0.015%
145	10.885	10.857	10.917	VV	2441	49068	0.98%	0.045%
146	10.955	10.917	10.984	VV	2534	60458	1.21%	0.056%
147	11.006	10.984	11.023	VV	467	9917	0.20%	0.009%
148	11.034	11.023	11.052	VV	364	4468	0.09%	0.004%
149	11.136	11.052	11.187	PV	19309	247532	4.96%	0.227%
150	11.214	11.187	11.261	VV	4861	75099	1.50%	0.069%
151	11.283	11.261	11.328	VV	983	23278	0.47%	0.021%
152	11.336	11.328	11.354	VV	332	4429	0.09%	0.004%
153	11.363	11.354	11.375	VV	354	3705	0.07%	0.003%
154	11.393	11.375	11.411	VV	546	7609	0.15%	0.007%
155	11.435	11.411	11.474	VV	1644	28400	0.57%	0.026%
156	11.524	11.474	11.542	VV	740	19466	0.39%	0.018%
157	11.561	11.542	11.572	VV	962	12894	0.26%	0.012%
158	11.590	11.572	11.622	VV	2225	31299	0.63%	0.029%
159	11.679	11.622	11.707	VV	3147	62591	1.25%	0.057%
160	11.745	11.707	11.764	VV	739	13689	0.27%	0.013%
161	11.784	11.764	11.811	PV	1053	14735	0.30%	0.014%
162	11.836	11.811	11.860	PV	1525	20923	0.42%	0.019%
163	11.909	11.860	11.959	VV	452191	4991252	100.00%	4.583%
164	11.976	11.959	12.007	VV	4211	62701	1.26%	0.058%
165	12.057	12.007	12.077	VV	3329	67775	1.36%	0.062%
166	12.093	12.077	12.107	VV	2105	28363	0.57%	0.026%
167	12.124	12.107	12.154	VV	2795	41139	0.82%	0.038%
168	12.177	12.154	12.220	VV	4596	64172	1.29%	0.059%
169	12.263	12.220	12.287	VV	2010	48809	0.98%	0.045%
170	12.310	12.287	12.374	VV	3979	84337	1.69%	0.077%
171	12.402	12.374	12.441	VV	35268	446712	8.95%	0.410%
172	12.475	12.441	12.495	PV	635	13297	0.27%	0.012%
173	12.542	12.495	12.551	VV	1115	25766	0.52%	0.024%
174	12.562	12.551	12.576	VV	1057	14278	0.29%	0.013%
175	12.591	12.576	12.600	VV	1090	13321	0.27%	0.012%
176	12.622	12.600	12.662	VV	2042	43383	0.87%	0.040%
177	12.674	12.662	12.711	VV	984	18782	0.38%	0.017%
178	12.738	12.711	12.748	VV	1101	14877	0.30%	0.014%
179	12.757	12.748	12.775	VV	903	9431	0.19%	0.009%
180	12.800	12.775	12.816	VV	2951	37072	0.74%	0.034%
181	12.845	12.816	12.866	VV	2944	57672	1.16%	0.053%
182	12.907	12.866	12.931	VV	3803	66918	1.34%	0.061%
183	12.963	12.931	13.008	VV	56844	694670	13.92%	0.638%
184	13.025	13.008	13.040	VV	762	11527	0.23%	0.011%
185	13.056	13.040	13.075	VV	579	8212	0.16%	0.008%
186	13.099	13.075	13.116	PV	1073	15064	0.30%	0.014%
187	13.156	13.116	13.165	VV	1978	34031	0.68%	0.031%
188	13.179	13.165	13.214	VV	2047	41864	0.84%	0.038%
189	13.262	13.214	13.294	VV	45269	546137	10.94%	0.501%
190	13.353	13.294	13.386	VV	320996	3920955	78.56%	3.600%
191	13.403	13.386	13.425	VV	3691	67268	1.35%	0.062%
192	13.442	13.425	13.499	VV	2636	92898	1.86%	0.085%
193	13.530	13.499	13.543	VV	4810	87448	1.75%	0.080%
194	13.562	13.543	13.600	VV	8115	148150	2.97%	0.136%

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195	13.617	13.600	13.644	VV	2329	49594	0.99%	0.046%
196	13.662	13.644	13.676	VV	2242	35681	0.71%	0.033%
197	13.689	13.676	13.703	VV	1993	30024	0.60%	0.028%
198	13.731	13.703	13.773	VV	4964	142623	2.86%	0.131%
199	13.797	13.773	13.815	VV	3309	70695	1.42%	0.065%
200	13.858	13.815	13.891	VV	8306	215084	4.31%	0.197%
201	13.963	13.891	13.984	VV	5534	207931	4.17%	0.191%
202	14.005	13.984	14.038	VV	7409	183997	3.69%	0.169%
203	14.049	14.038	14.071	VV	5047	93844	1.88%	0.086%
204	14.107	14.071	14.119	VV	6922	155129	3.11%	0.142%
205	14.134	14.119	14.152	VV	7422	125486	2.51%	0.115%
206	14.174	14.152	14.214	VV	8560	241429	4.84%	0.222%
207	14.255	14.214	14.275	VV	5942	185816	3.72%	0.171%
208	14.342	14.275	14.372	VV	9281	388641	7.79%	0.357%
209	14.410	14.372	14.434	VV	7556	253366	5.08%	0.233%
210	14.440	14.434	14.454	VV	6442	72448	1.45%	0.067%
211	14.493	14.454	14.538	VV	18971	550973	11.04%	0.506%
212	14.554	14.538	14.569	VV	9317	171603	3.44%	0.158%
213	14.598	14.569	14.657	VV	15041	530951	10.64%	0.487%
214	14.675	14.657	14.688	VV	9401	157208	3.15%	0.144%
215	14.737	14.688	14.750	VV	11819	364268	7.30%	0.334%
216	14.772	14.750	14.794	VV	13340	313299	6.28%	0.288%
217	14.800	14.794	14.821	VV	11502	173432	3.47%	0.159%
218	14.837	14.821	14.858	VV	15213	270867	5.43%	0.249%
219	14.903	14.858	14.944	VV	16525	642782	12.88%	0.590%
220	14.960	14.944	14.978	VV	11847	221719	4.44%	0.204%
221	14.991	14.978	15.009	VV	10548	192270	3.85%	0.177%
222	15.027	15.009	15.037	VV	10922	169093	3.39%	0.155%
223	15.072	15.037	15.082	VV	11527	303680	6.08%	0.279%
224	15.105	15.082	15.124	VV	13846	318301	6.38%	0.292%
225	15.150	15.124	15.170	VV	36306	620054	12.42%	0.569%
226	15.190	15.170	15.230	VV	38271	779474	15.62%	0.716%
227	15.273	15.230	15.293	VV	15216	541066	10.84%	0.497%
228	15.310	15.293	15.339	VV	16116	396956	7.95%	0.364%
229	15.357	15.339	15.383	VV	14637	356363	7.14%	0.327%
230	15.410	15.383	15.436	VV	14642	436797	8.75%	0.401%
231	15.461	15.436	15.518	VV	17050	749543	15.02%	0.688%
232	15.527	15.518	15.541	VV	14897	199641	4.00%	0.183%
233	15.604	15.541	15.700	VV	37789	1970967	39.49%	1.810%
234	15.759	15.700	15.771	VV	21319	776235	15.55%	0.713%
235	15.808	15.771	15.851	VV	28036	1095154	21.94%	1.005%
236	15.869	15.851	15.890	VV	19126	408135	8.18%	0.375%
237	15.961	15.890	15.976	VV	20394	943730	18.91%	0.866%
238	15.990	15.976	16.019	VV	19924	496040	9.94%	0.455%
239	16.057	16.019	16.109	VV	22177	1084965	21.74%	0.996%
240	16.128	16.109	16.144	VV	21088	418791	8.39%	0.384%
241	16.152	16.144	16.178	VV	20729	391825	7.85%	0.360%
242	16.200	16.178	16.221	VV	20093	500650	10.03%	0.460%
243	16.246	16.221	16.265	VV	22445	562511	11.27%	0.516%
244	16.281	16.265	16.329	VV	23579	817977	16.39%	0.751%
245	16.343	16.329	16.361	VV	19149	353117	7.07%	0.324%
246	16.416	16.361	16.424	VV	22796	739325	14.81%	0.679%

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247	16.461	16.424	16.480	VV	22506	727387	14.57%	0.668%
248	16.566	16.480	16.597	VV	28353	1713564	34.33%	1.573%
249	16.627	16.597	16.678	VV	29291	1228829	24.62%	1.128%
250	16.714	16.678	16.781	VV	54146	2031700	40.71%	1.865%
251	16.799	16.781	16.823	VV	27368	626763	12.56%	0.575%
252	16.845	16.823	16.867	VV	25381	623890	12.50%	0.573%
253	16.888	16.867	16.923	VV	24979	794673	15.92%	0.730%
254	16.955	16.923	16.990	VV	25027	948607	19.01%	0.871%
255	17.038	16.990	17.073	VV	42895	1473339	29.52%	1.353%
256	17.096	17.073	17.135	VV	44957	1121737	22.47%	1.030%
257	17.199	17.135	17.224	VV	30929	1354032	27.13%	1.243%
258	17.241	17.224	17.291	VV	29298	1058720	21.21%	0.972%
259	17.355	17.291	17.385	VV	24221	1291251	25.87%	1.186%
260	17.433	17.385	17.471	VV	26573	1256191	25.17%	1.153%
261	17.507	17.471	17.546	VV	25127	1042916	20.89%	0.958%
262	17.572	17.546	17.613	VV	27568	1030696	20.65%	0.946%
263	17.645	17.613	17.668	VV	31380	866581	17.36%	0.796%
264	17.682	17.668	17.702	VV	22930	445914	8.93%	0.409%
265	17.720	17.702	17.738	VV	23539	472841	9.47%	0.434%
266	17.763	17.738	17.795	VV	25625	812777	16.28%	0.746%
267	17.811	17.795	17.841	VV	22769	581748	11.66%	0.534%
268	17.857	17.841	17.872	VV	20721	371153	7.44%	0.341%
269	17.911	17.872	17.925	VV	20617	624135	12.50%	0.573%
270	17.936	17.925	17.956	VV	20453	372595	7.46%	0.342%
271	18.023	17.956	18.040	VV	23160	1094509	21.93%	1.005%
272	18.080	18.040	18.131	VV	27293	1237869	24.80%	1.136%
273	18.172	18.131	18.196	VV	24808	839293	16.82%	0.771%
274	18.225	18.196	18.294	VV	28915	1433999	28.73%	1.317%
275	18.310	18.294	18.342	VV	22039	588111	11.78%	0.540%
276	18.402	18.342	18.425	VV	27430	1149015	23.02%	1.055%
277	18.474	18.425	18.491	VV	40887	1256605	25.18%	1.154%
278	18.506	18.491	18.546	VV	39161	980052	19.64%	0.900%
279	18.565	18.546	18.574	VV	21351	353184	7.08%	0.324%
280	18.598	18.574	18.621	VV	27471	672634	13.48%	0.618%
281	18.636	18.621	18.694	VV	22991	906853	18.17%	0.833%
282	18.730	18.694	18.764	VV	32013	969334	19.42%	0.890%
283	18.796	18.764	18.844	VV	20452	929087	18.61%	0.853%
284	18.911	18.844	18.965	VV	31589	1590923	31.87%	1.461%
285	19.020	18.965	19.047	VV	29910	1081001	21.66%	0.992%
286	19.067	19.047	19.088	VV	25928	581328	11.65%	0.534%
287	19.111	19.088	19.140	VV	25599	691478	13.85%	0.635%
288	19.176	19.140	19.188	VV	19849	552688	11.07%	0.507%
289	19.205	19.188	19.218	VV	20289	358688	7.19%	0.329%
290	19.235	19.218	19.254	VV	22827	473511	9.49%	0.435%
291	19.282	19.254	19.298	VV	31592	728944	14.60%	0.669%
292	19.317	19.298	19.371	VV	32395	1219588	24.43%	1.120%
293	19.409	19.371	19.437	VV	29190	998807	20.01%	0.917%
294	19.447	19.437	19.478	VV	25574	587096	11.76%	0.539%
295	19.501	19.478	19.536	VV	22926	774623	15.52%	0.711%
296	19.562	19.536	19.595	VV	23123	783439	15.70%	0.719%
297	19.610	19.595	19.650	VV	21124	658933	13.20%	0.605%
298	19.662	19.650	19.672	VV	19823	252536	5.06%	0.232%
299	19.725	19.672	19.748	VV	27891	1103153	22.10%	1.013%

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300	19.771	19.748	19.791	VV	27611	664043	13.30%	0.610%
301	19.812	19.791	19.861	VV	30176	1093085	21.90%	1.004%
302	19.892	19.861	19.937	VV	26523	1133315	22.71%	1.041%
303	19.967	19.937	20.010	VV	26395	1070689	21.45%	0.983%
304	20.079	20.010	20.099	VV	30254	1402180	28.09%	1.287%
305	20.117	20.099	20.164	VV	27882	962235	19.28%	0.883%
306	20.185	20.164	20.202	VV	22859	483831	9.69%	0.444%
307	20.284	20.202	20.308	VV	26311	1523230	30.52%	1.398%
308	20.320	20.308	20.333	VV	26029	392432	7.86%	0.360%
309	20.347	20.333	20.391	VV	25802	860142	17.23%	0.790%
310	20.444	20.391	20.483	VV	24672	1311207	26.27%	1.204%
311	20.513	20.483	20.541	VV	25451	851793	17.07%	0.782%
312	20.552	20.541	20.562	VV	25319	313092	6.27%	0.287%
313	20.576	20.562	20.590	VV	25549	425530	8.53%	0.391%
314	20.612	20.590	20.635	VV	26431	692969	13.88%	0.636%
315	20.645	20.635	20.693	VV	25648	858411	17.20%	0.788%
316	20.714	20.693	20.741	VV	24783	682024	13.66%	0.626%
317	20.802	20.741	20.825	VV	26115	1216278	24.37%	1.117%
318	20.854	20.825	20.881	VV	24987	818073	16.39%	0.751%
319	20.905	20.881	21.001	VV	23151	1506705	30.19%	1.383%
320	21.042	21.001	21.098	VV	19054	1066572	21.37%	0.979%
321	21.118	21.098	21.168	VV	17752	716524	14.36%	0.658%
322	21.176	21.168	21.247	VV	16656	699428	14.01%	0.642%
323	21.257	21.247	21.271	VV	13147	186991	3.75%	0.172%
324	21.331	21.271	21.342	VV	13461	562745	11.27%	0.517%
325	21.346	21.342	21.399	VV	13135	430867	8.63%	0.396%
326	21.413	21.399	21.438	VV	12486	272664	5.46%	0.250%
327	21.451	21.438	21.580	VV	11294	790221	15.83%	0.726%
328	21.615	21.580	21.653	VV	8072	333357	6.68%	0.306%
329	21.712	21.653	21.722	VV	8622	327961	6.57%	0.301%
330	21.732	21.722	21.855	VV	8250	527865	10.58%	0.485%
331	21.866	21.855	21.944	VV	4905	164132	3.29%	0.151%
332	21.962	21.944	22.004	VV	1465	41557	0.83%	0.038%
333	22.015	22.004	22.043	VV	1183	14041	0.28%	0.013%
334	22.062	22.043	22.074	PV	681	5824	0.12%	0.005%
Sum of corrected areas:					108919606			

Aliphatic EPH 030325.M Thu Mar 13 05:47:36 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	5	SDG No.:	Q1542
Lab Sample ID:	Q1542-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 15:38	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	27.8		1	1.99	4.63	mg/kg	FE052766.D
Total EPH	Total EPH	27.8			1.99	4.63	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	5	SDG No.:	Q1542
Lab Sample ID:	Q1542-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052766.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	27.8		1.99	4.63	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	59.1	E	2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.6		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.3		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-07	Acq On:	12 Mar 2025 15:38
Client Sample ID:	5	Operator:	YP\AJ
Data file:	FE052766.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	3.148	6.790	1000106	6.413	300	ug/ml
Aliphatic C12-C16	6.791	10.243	2519294	16.564	200	ug/ml
Aliphatic C16-C21	10.244	13.621	5581098	38.084	300	ug/ml
Aliphatic C21-C28	13.622	17.293	42673579	299.565	400	ug/ml
Aliphatic C28-C40	17.294	22.210	97827245	766.737	600	ug/ml
Aliphatic EPH	3.148	22.210	149601322	1130		ug/ml
ortho-Terphenyl (SURR)	11.913	11.913	5957099	35.34		ug/ml
1-chlorooctadecane (SURR)	13.359	13.359	4572120	37.65		ug/ml
Aliphatic C9-C28	3.148	17.293	51774077	360.626	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052766.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 15:38
 Operator : YP\AJ
 Sample : Q1542-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5

Integration File: autoint1.e
 Quant Time: Mar 13 03:57:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.913	5957099	35.336 ug/ml
Spiked Amount	50.000	Recovery	= 70.67%
12) S 1-chlorooctadecane (S...	13.359	4572120	37.653 ug/ml
Spiked Amount	50.000	Recovery	= 75.31%

Target Compounds

(f)=RT Delta > 1/2 Window

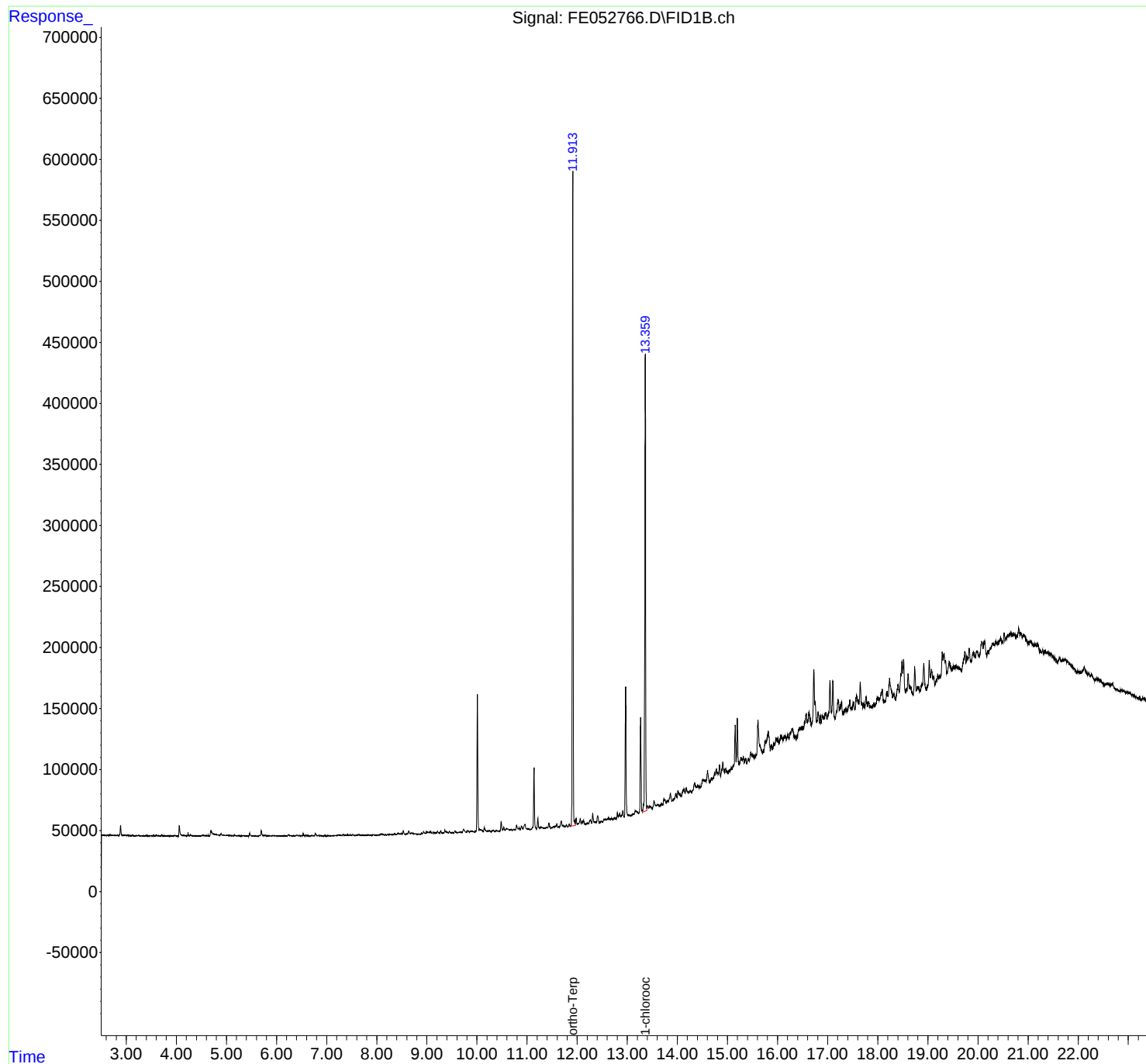
(m)=manual int.

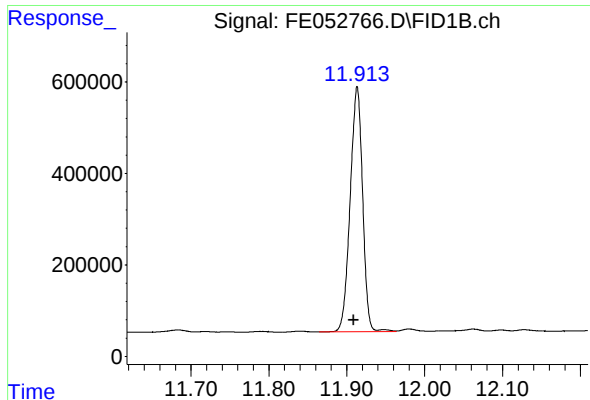
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052766.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 15:38
Operator : YP\AJ
Sample : Q1542-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5

Integration File: autoint1.e
Quant Time: Mar 13 03:57:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

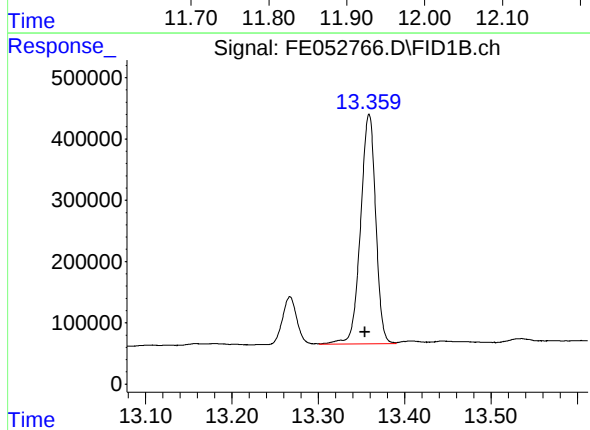




#9 ortho-Terphenyl (SURR)

R.T.: 11.913 min
Delta R.T.: 0.005 min
Response: 5957099
Conc: 35.34 ug/ml

Instrument :
FID_E
ClientSampleId :
5



#12 1-chlorooctadecane (SURR)

R.T.: 13.359 min
Delta R.T.: 0.005 min
Response: 4572120
Conc: 37.65 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052766.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 15:38
Sample : Q1542-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.828	2.804	2.847	BV	112	1228	0.02%	0.001%
2	2.886	2.847	2.927	PV	8516	98943	1.66%	0.062%
3	2.941	2.927	2.956	VV	373	5759	0.10%	0.004%
4	2.985	2.956	3.014	VV	566	12836	0.21%	0.008%
5	3.022	3.014	3.081	VV	208	6269	0.10%	0.004%
6	3.121	3.081	3.142	VV	324	5502	0.09%	0.003%
7	3.153	3.142	3.205	VV	150	3099	0.05%	0.002%
8	3.217	3.205	3.231	VV	76	737	0.01%	0.000%
9	3.251	3.231	3.291	VV	293	5039	0.08%	0.003%
10	3.296	3.291	3.330	VV	82	1241	0.02%	0.001%
11	3.342	3.330	3.357	VV	54	626	0.01%	0.000%
12	3.393	3.357	3.410	PV	208	3888	0.07%	0.002%
13	3.425	3.410	3.514	VV	246	7283	0.12%	0.005%
14	3.536	3.514	3.591	VV	378	9388	0.16%	0.006%
15	3.608	3.591	3.681	VV	798	15063	0.25%	0.009%
16	3.703	3.681	3.728	PV	448	7133	0.12%	0.004%
17	3.740	3.728	3.775	VV	254	4248	0.07%	0.003%
18	3.792	3.775	3.801	VV	173	1772	0.03%	0.001%
19	3.808	3.801	3.816	VV	129	993	0.02%	0.001%
20	3.841	3.816	3.881	VV	253	5568	0.09%	0.003%
21	3.892	3.881	3.911	VV	141	1422	0.02%	0.001%
22	3.967	3.911	4.033	VV	458	10634	0.18%	0.007%
23	4.059	4.033	4.129	VV	8497	123127	2.06%	0.077%
24	4.145	4.129	4.204	VV	588	17718	0.30%	0.011%
25	4.234	4.204	4.263	VV	1608	12813	0.21%	0.008%
26	4.282	4.263	4.333	VV	848	17179	0.29%	0.011%
27	4.349	4.333	4.411	VV	228	7804	0.13%	0.005%
28	4.413	4.411	4.451	VV	187	2431	0.04%	0.002%
29	4.453	4.451	4.485	VV	131	1532	0.03%	0.001%
30	4.514	4.485	4.524	VV	667	7513	0.13%	0.005%
31	4.535	4.524	4.578	VV	544	12218	0.20%	0.008%
32	4.593	4.578	4.618	VV	460	7965	0.13%	0.005%
33	4.637	4.618	4.653	VV	522	5097	0.09%	0.003%
34	4.689	4.653	4.788	VV	4686	153997	2.58%	0.096%
35	4.801	4.788	4.867	VV	1263	46685	0.78%	0.029%
36	4.891	4.867	5.005	VV	2115	72557	1.21%	0.045%

					rteres			
37	5.025	5.005	5.054	VV	642	15966	0.27%	0.010%
38	5.068	5.054	5.127	VV	629	17337	0.29%	0.011%
39	5.159	5.127	5.202	VV	792	19997	0.33%	0.012%
40	5.237	5.202	5.288	VV	366	15283	0.26%	0.010%
41	5.303	5.288	5.320	VV	289	4724	0.08%	0.003%
42	5.338	5.320	5.391	VV	513	11425	0.19%	0.007%
43	5.404	5.391	5.418	VV	219	2982	0.05%	0.002%
44	5.462	5.418	5.524	VV	2357	38577	0.65%	0.024%
45	5.532	5.524	5.574	VV	268	5139	0.09%	0.003%
46	5.585	5.574	5.637	VV	137	2328	0.04%	0.001%
47	5.659	5.637	5.675	PV	638	8379	0.14%	0.005%
48	5.697	5.675	5.761	VV	4499	68992	1.15%	0.043%
49	5.773	5.761	5.833	VV	582	15571	0.26%	0.010%
50	5.847	5.833	5.877	VV	448	8237	0.14%	0.005%
51	5.891	5.877	5.898	VV	239	2762	0.05%	0.002%
52	5.921	5.898	5.936	VV	427	6842	0.11%	0.004%
53	5.975	5.936	6.013	VV	345	11858	0.20%	0.007%
54	6.034	6.013	6.063	VV	280	5994	0.10%	0.004%
55	6.106	6.063	6.113	VV	190	4554	0.08%	0.003%
56	6.133	6.113	6.156	VV	335	5777	0.10%	0.004%
57	6.171	6.156	6.188	VV	256	3741	0.06%	0.002%
58	6.200	6.188	6.210	VV	308	3299	0.06%	0.002%
59	6.232	6.210	6.314	VV	1073	28154	0.47%	0.018%
60	6.337	6.314	6.353	VV	297	4844	0.08%	0.003%
61	6.406	6.353	6.441	VV	946	20948	0.35%	0.013%
62	6.455	6.441	6.478	VV	487	6926	0.12%	0.004%
63	6.494	6.478	6.507	VV	257	3634	0.06%	0.002%
64	6.533	6.507	6.565	VV	1841	25749	0.43%	0.016%
65	6.583	6.565	6.602	VV	452	7312	0.12%	0.005%
66	6.613	6.602	6.641	VV	339	5429	0.09%	0.003%
67	6.648	6.641	6.671	VV	305	3401	0.06%	0.002%
68	6.696	6.671	6.745	VV	779	12742	0.21%	0.008%
69	6.775	6.745	6.818	VV	2316	34433	0.58%	0.021%
70	6.847	6.818	6.871	VV	537	9873	0.17%	0.006%
71	6.883	6.871	6.914	VV	224	4335	0.07%	0.003%
72	6.923	6.914	6.942	VV	169	1463	0.02%	0.001%
73	6.976	6.942	6.996	VV	248	3990	0.07%	0.002%
74	7.026	6.996	7.071	PV	244	5420	0.09%	0.003%
75	7.104	7.071	7.124	VV	256	4859	0.08%	0.003%
76	7.231	7.124	7.254	VV	672	22558	0.38%	0.014%
77	7.268	7.254	7.298	VV	509	10607	0.18%	0.007%
78	7.331	7.298	7.353	VV	1095	20020	0.33%	0.012%
79	7.370	7.353	7.394	VV	639	11611	0.19%	0.007%
80	7.418	7.394	7.454	VV	889	16339	0.27%	0.010%
81	7.469	7.454	7.494	VV	652	9128	0.15%	0.006%
82	7.514	7.494	7.565	VV	931	16779	0.28%	0.010%
83	7.594	7.565	7.607	VV	362	5993	0.10%	0.004%
84	7.647	7.607	7.689	VV	1178	23409	0.39%	0.015%
85	7.706	7.689	7.748	VV	231	6415	0.11%	0.004%
86	7.770	7.748	7.794	VV	251	5518	0.09%	0.003%
87	7.821	7.794	7.853	VV	499	9812	0.16%	0.006%
88	7.870	7.853	7.891	PV	204	2793	0.05%	0.002%
89	7.931	7.891	7.978	VV	639	10368	0.17%	0.006%

					rteres			
90	7.990	7.978	8.004	PV	140	961	0.02%	0.001%
91	8.022	8.004	8.034	VV	133	1657	0.03%	0.001%
92	8.078	8.034	8.088	VV	820	14061	0.24%	0.009%
93	8.102	8.088	8.154	VV	1243	22338	0.37%	0.014%
94	8.177	8.154	8.195	VV	305	4376	0.07%	0.003%
95	8.223	8.195	8.244	VV	516	8667	0.14%	0.005%
96	8.260	8.244	8.272	VV	724	8422	0.14%	0.005%
97	8.281	8.272	8.308	VV	462	6815	0.11%	0.004%
98	8.349	8.308	8.374	VV	1001	18895	0.32%	0.012%
99	8.424	8.374	8.438	VV	1185	29078	0.49%	0.018%
100	8.450	8.438	8.468	VV	1113	16033	0.27%	0.010%
101	8.530	8.468	8.564	VV	3363	70516	1.18%	0.044%
102	8.639	8.564	8.668	VV	3101	66420	1.11%	0.041%
103	8.688	8.668	8.705	VV	1657	26561	0.44%	0.017%
104	8.718	8.705	8.736	VV	1210	16655	0.28%	0.010%
105	8.751	8.736	8.801	VV	751	20140	0.34%	0.013%
106	8.818	8.801	8.845	VV	295	5408	0.09%	0.003%
107	8.895	8.845	8.905	PV	843	13718	0.23%	0.009%
108	8.935	8.905	8.963	VV	2383	42326	0.71%	0.026%
109	8.989	8.963	9.000	VV	1768	27331	0.46%	0.017%
110	9.011	9.000	9.038	VV	1602	33112	0.55%	0.021%
111	9.075	9.038	9.106	VV	1896	55603	0.93%	0.035%
112	9.128	9.106	9.144	VV	1442	20874	0.35%	0.013%
113	9.158	9.144	9.168	VV	838	10731	0.18%	0.007%
114	9.182	9.168	9.196	VV	920	13503	0.23%	0.008%
115	9.215	9.196	9.244	VV	2059	32645	0.55%	0.020%
116	9.279	9.244	9.319	VV	2352	42608	0.71%	0.027%
117	9.362	9.319	9.431	VV	2508	65306	1.09%	0.041%
118	9.452	9.431	9.476	VV	1768	22573	0.38%	0.014%
119	9.508	9.476	9.531	VV	600	10796	0.18%	0.007%
120	9.562	9.531	9.582	VV	2032	27714	0.46%	0.017%
121	9.593	9.582	9.619	VV	588	7753	0.13%	0.005%
122	9.647	9.619	9.678	VV	855	15747	0.26%	0.010%
123	9.696	9.678	9.711	VV	539	8264	0.14%	0.005%
124	9.732	9.711	9.782	VV	2949	63131	1.06%	0.039%
125	9.812	9.782	9.852	VV	1549	39853	0.67%	0.025%
126	9.874	9.852	9.921	VV	1032	34131	0.57%	0.021%
127	9.929	9.921	9.951	VV	798	10661	0.18%	0.007%
128	10.010	9.951	10.044	VV	112151	1235697	20.67%	0.771%
129	10.054	10.044	10.071	VV	2339	34863	0.58%	0.022%
130	10.080	10.071	10.124	VV	1944	40747	0.68%	0.025%
131	10.148	10.124	10.201	VV	3628	71314	1.19%	0.044%
132	10.248	10.201	10.284	VV	914	28158	0.47%	0.018%
133	10.314	10.284	10.360	PV	982	22747	0.38%	0.014%
134	10.393	10.360	10.411	VV	719	12668	0.21%	0.008%
135	10.420	10.411	10.438	VV	366	3693	0.06%	0.002%
136	10.485	10.438	10.512	VV	8099	103212	1.73%	0.064%
137	10.535	10.512	10.558	VV	2631	43642	0.73%	0.027%
138	10.593	10.558	10.608	VV	1624	37424	0.63%	0.023%
139	10.620	10.608	10.645	VV	1545	25469	0.43%	0.016%
140	10.683	10.645	10.709	VV	1060	23585	0.39%	0.015%
141	10.734	10.709	10.764	VV	945	15947	0.27%	0.010%

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142	10.792	10.764	10.828	VV	4091	68813	1.15%	0.043%
143	10.841	10.828	10.861	VV	1892	25542	0.43%	0.016%
144	10.888	10.861	10.920	VV	3386	61000	1.02%	0.038%
145	10.958	10.920	10.989	VV	4418	105134	1.76%	0.066%
146	11.008	10.989	11.058	VV	743	19744	0.33%	0.012%
147	11.140	11.058	11.190	PV	50165	590485	9.88%	0.368%
148	11.217	11.190	11.258	VV	8618	118822	1.99%	0.074%
149	11.284	11.258	11.326	VV	1430	34731	0.58%	0.022%
150	11.345	11.326	11.354	VV	341	5407	0.09%	0.003%
151	11.398	11.354	11.410	VV	656	15256	0.26%	0.010%
152	11.436	11.410	11.481	VV	4348	65089	1.09%	0.041%
153	11.529	11.481	11.546	PV	1021	19205	0.32%	0.012%
154	11.564	11.546	11.577	VV	1466	19650	0.33%	0.012%
155	11.595	11.577	11.628	VV	3314	44346	0.74%	0.028%
156	11.683	11.628	11.707	VV	5223	98275	1.64%	0.061%
157	11.719	11.707	11.735	VV	1770	20461	0.34%	0.013%
158	11.746	11.735	11.767	VV	862	11453	0.19%	0.007%
159	11.789	11.767	11.814	VV	1805	25050	0.42%	0.016%
160	11.840	11.814	11.864	PV	2150	28753	0.48%	0.018%
161	11.913	11.864	11.963	VV	537804	5977729	100.00%	3.729%
162	11.980	11.963	12.007	VV	6252	88624	1.48%	0.055%
163	12.062	12.007	12.082	VV	5619	115930	1.94%	0.072%
164	12.098	12.082	12.112	VV	3382	42247	0.71%	0.026%
165	12.128	12.112	12.167	VV	3918	61207	1.02%	0.038%
166	12.209	12.167	12.225	VV	1231	26278	0.44%	0.016%
167	12.267	12.225	12.290	VV	3385	78826	1.32%	0.049%
168	12.312	12.290	12.344	VV	8583	118176	1.98%	0.074%
169	12.354	12.344	12.380	VV	1365	24617	0.41%	0.015%
170	12.410	12.380	12.443	VV	6156	112957	1.89%	0.070%
171	12.483	12.443	12.507	PV	1126	23652	0.40%	0.015%
172	12.538	12.507	12.555	VV	2131	42529	0.71%	0.027%
173	12.564	12.555	12.585	VV	1903	30731	0.51%	0.019%
174	12.628	12.585	12.644	VV	2319	61495	1.03%	0.038%
175	12.655	12.644	12.664	VV	1493	16444	0.28%	0.010%
176	12.682	12.664	12.712	VV	1556	32753	0.55%	0.020%
177	12.741	12.712	12.781	VV	1780	39838	0.67%	0.025%
178	12.804	12.781	12.821	VV	5140	63199	1.06%	0.039%
179	12.850	12.821	12.872	VV	4151	80478	1.35%	0.050%
180	12.911	12.872	12.936	VV	5971	109222	1.83%	0.068%
181	12.968	12.936	13.012	VV	106501	1252516	20.95%	0.781%
182	13.031	13.012	13.051	VV	1443	24662	0.41%	0.015%
183	13.064	13.051	13.081	VV	913	10279	0.17%	0.006%
184	13.106	13.081	13.117	PV	1388	18932	0.32%	0.012%
185	13.128	13.117	13.136	VV	1188	11038	0.18%	0.007%
186	13.159	13.136	13.170	VV	3194	42664	0.71%	0.027%
187	13.180	13.170	13.241	VV	2822	63255	1.06%	0.039%
188	13.267	13.241	13.301	VV	78437	906832	15.17%	0.566%
189	13.359	13.301	13.390	VV	374436	4588614	76.76%	2.863%
190	13.408	13.390	13.431	VV	4218	74868	1.25%	0.047%
191	13.445	13.431	13.508	VV	3649	93928	1.57%	0.059%
192	13.534	13.508	13.564	VV	6353	128357	2.15%	0.080%
193	13.573	13.564	13.583	VV	2682	27240	0.46%	0.017%
194	13.617	13.583	13.639	VV	2184	63563	1.06%	0.040%

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195	13.666	13.639	13.679	VV	2096	30629	0.51%	0.019%
196	13.692	13.679	13.711	VV	2054	24962	0.42%	0.016%
197	13.734	13.711	13.777	VV	4989	134161	2.24%	0.084%
198	13.799	13.777	13.819	VV	3488	64871	1.09%	0.040%
199	13.861	13.819	13.892	VV	8152	200568	3.36%	0.125%
200	13.968	13.892	13.987	VV	6854	195118	3.26%	0.122%
201	14.011	13.987	14.078	VV	8437	296615	4.96%	0.185%
202	14.112	14.078	14.121	VV	7946	150091	2.51%	0.094%
203	14.136	14.121	14.152	VV	8363	134683	2.25%	0.084%
204	14.178	14.152	14.224	VV	8534	257686	4.31%	0.161%
205	14.259	14.224	14.284	VV	5558	163191	2.73%	0.102%
206	14.348	14.284	14.372	VV	10247	366846	6.14%	0.229%
207	14.409	14.372	14.430	VV	7995	237107	3.97%	0.148%
208	14.447	14.430	14.461	VV	6572	115571	1.93%	0.072%
209	14.502	14.461	14.518	VV	11372	286330	4.79%	0.179%
210	14.528	14.518	14.539	VV	10843	132787	2.22%	0.083%
211	14.560	14.539	14.573	VV	10095	197850	3.31%	0.123%
212	14.602	14.573	14.644	VV	17114	495579	8.29%	0.309%
213	14.743	14.644	14.756	VV	13158	661992	11.07%	0.413%
214	14.776	14.756	14.794	VV	16207	322406	5.39%	0.201%
215	14.806	14.794	14.820	VV	13430	197122	3.30%	0.123%
216	14.841	14.820	14.863	VV	18842	359214	6.01%	0.224%
217	14.906	14.863	14.944	VV	20301	704601	11.79%	0.440%
218	14.964	14.944	15.011	VV	14370	482794	8.08%	0.301%
219	15.076	15.011	15.087	VV	12901	534792	8.95%	0.334%
220	15.154	15.087	15.174	VV	47461	1122304	18.77%	0.700%
221	15.195	15.174	15.237	VV	52666	1006888	16.84%	0.628%
222	15.271	15.237	15.288	VV	18982	523319	8.75%	0.326%
223	15.295	15.288	15.302	VV	17791	145953	2.44%	0.091%
224	15.317	15.302	15.338	VV	19427	373119	6.24%	0.233%
225	15.360	15.338	15.391	VV	17691	488498	8.17%	0.305%
226	15.421	15.391	15.437	VV	16830	422425	7.07%	0.264%
227	15.465	15.437	15.491	VV	20559	592471	9.91%	0.370%
228	15.497	15.491	15.518	VV	18759	282485	4.73%	0.176%
229	15.530	15.518	15.546	VV	17881	285472	4.78%	0.178%
230	15.608	15.546	15.700	VV	45311	2243258	37.53%	1.399%
231	15.758	15.700	15.768	VV	25775	882578	14.76%	0.551%
232	15.813	15.768	15.854	VV	33943	1409491	23.58%	0.879%
233	15.873	15.854	15.894	VV	21637	482664	8.07%	0.301%
234	15.967	15.894	16.024	VV	25876	1744282	29.18%	1.088%
235	16.065	16.024	16.110	VV	27195	1256955	21.03%	0.784%
236	16.140	16.110	16.176	VV	25625	952056	15.93%	0.594%
237	16.204	16.176	16.231	VV	26170	797164	13.34%	0.497%
238	16.290	16.231	16.368	VV	29406	2095329	35.05%	1.307%
239	16.456	16.368	16.468	VV	28326	1505538	25.19%	0.939%
240	16.476	16.468	16.492	VV	28581	401617	6.72%	0.251%
241	16.569	16.492	16.595	VV	37716	1932057	32.32%	1.205%
242	16.627	16.595	16.674	VV	38801	1583424	26.49%	0.988%
243	16.722	16.674	16.781	VV	72606	2708959	45.32%	1.690%
244	16.808	16.781	16.834	VV	36065	1007621	16.86%	0.629%
245	16.851	16.834	16.870	VV	32420	641038	10.72%	0.400%
246	16.890	16.870	16.924	VV	31936	996757	16.67%	0.622%

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247	16.965	16.924	16.985	VV	33165	1150142	19.24%	0.718%
248	17.044	16.985	17.078	VV	59285	2107067	35.25%	1.314%
249	17.102	17.078	17.148	VV	58116	1601173	26.79%	0.999%
250	17.204	17.148	17.234	VV	41377	1766270	29.55%	1.102%
251	17.249	17.234	17.259	VV	36341	516698	8.64%	0.322%
252	17.275	17.259	17.303	VV	38060	900941	15.07%	0.562%
253	17.352	17.303	17.404	VV	31989	1846828	30.90%	1.152%
254	17.439	17.404	17.461	VV	38019	1145326	19.16%	0.714%
255	17.471	17.461	17.481	VV	31526	367033	6.14%	0.229%
256	17.520	17.481	17.546	VV	35722	1258763	21.06%	0.785%
257	17.580	17.546	17.623	VV	39097	1637224	27.39%	1.021%
258	17.649	17.623	17.676	VV	49994	1253890	20.98%	0.782%
259	17.686	17.676	17.702	VV	32309	481256	8.05%	0.300%
260	17.720	17.702	17.736	VV	31701	619050	10.36%	0.386%
261	17.766	17.736	17.791	VV	36765	1054271	17.64%	0.658%
262	17.817	17.791	17.878	VV	32176	1485841	24.86%	0.927%
263	17.916	17.878	17.936	VV	29832	962256	16.10%	0.600%
264	18.088	17.936	18.120	VV	38155	3500405	58.56%	2.184%
265	18.134	18.120	18.144	VV	28502	402193	6.73%	0.251%
266	18.183	18.144	18.206	VV	35717	1167680	19.53%	0.728%
267	18.234	18.206	18.294	VV	45422	1959629	32.78%	1.222%
268	18.318	18.294	18.354	VV	31517	1060089	17.73%	0.661%
269	18.405	18.354	18.428	VV	37708	1450060	24.26%	0.905%
270	18.481	18.428	18.497	VV	55112	1845247	30.87%	1.151%
271	18.514	18.497	18.556	VV	57667	1515451	25.35%	0.945%
272	18.571	18.556	18.581	VV	32747	468531	7.84%	0.292%
273	18.604	18.581	18.634	VV	44201	1178628	19.72%	0.735%
274	18.643	18.634	18.706	VV	34142	1311817	21.95%	0.818%
275	18.736	18.706	18.764	VV	47342	1245252	20.83%	0.777%
276	18.796	18.764	18.805	VV	31512	725730	12.14%	0.453%
277	18.814	18.805	18.842	VV	30887	666524	11.15%	0.416%
278	18.876	18.842	18.886	VV	31640	777742	13.01%	0.485%
279	18.917	18.886	18.970	VV	48318	1768564	29.59%	1.103%
280	19.025	18.970	19.051	VV	49600	1735817	29.04%	1.083%
281	19.072	19.051	19.107	VV	41662	1254145	20.98%	0.782%
282	19.117	19.107	19.141	VV	35124	662848	11.09%	0.414%
283	19.199	19.141	19.223	VV	34600	1579619	26.43%	0.985%
284	19.235	19.223	19.261	VV	35027	777223	13.00%	0.485%
285	19.286	19.261	19.302	VV	52293	1139839	19.07%	0.711%
286	19.320	19.302	19.386	VV	51684	2216653	37.08%	1.383%
287	19.425	19.386	19.478	VV	43968	2161210	36.15%	1.348%
288	19.508	19.478	19.538	VV	39011	1352326	22.62%	0.844%
289	19.555	19.538	19.672	VV	38639	2898473	48.49%	1.808%
290	19.738	19.672	19.764	VV	47201	2253435	37.70%	1.406%
291	19.780	19.764	19.795	VV	43159	775300	12.97%	0.484%
292	19.823	19.795	19.864	VV	49748	1757220	29.40%	1.096%
293	19.909	19.864	19.944	VV	44757	2028278	33.93%	1.265%
294	19.983	19.944	20.016	VV	45025	1863538	31.17%	1.163%
295	20.078	20.016	20.101	VV	50835	2341577	39.17%	1.461%
296	20.134	20.101	20.177	VV	51330	2092495	35.00%	1.305%
297	20.242	20.177	20.250	VV	44127	1841651	30.81%	1.149%
298	20.293	20.250	20.334	VV	47570	2321863	38.84%	1.448%
299	20.352	20.334	20.384	VV	48471	1385019	23.17%	0.864%

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300	20.455	20.384	20.501	VV	49624	3296645	55.15%	2.057%
301	20.522	20.501	20.541	VV	52808	1190073	19.91%	0.742%
302	20.601	20.541	20.611	VV	50093	2046555	34.24%	1.277%
303	20.626	20.611	20.633	VV	50266	665099	11.13%	0.415%
304	20.651	20.633	20.671	VV	51198	1134082	18.97%	0.707%
305	20.692	20.671	20.706	VV	49982	1042657	17.44%	0.650%
306	20.715	20.706	20.761	VV	50200	1562259	26.13%	0.975%
307	20.812	20.761	20.835	VV	52939	2188565	36.61%	1.365%
308	20.850	20.835	20.881	VV	48698	1304070	21.82%	0.814%
309	20.907	20.881	20.969	VV	46780	2353128	39.36%	1.468%
310	20.976	20.969	20.994	VV	40744	587846	9.83%	0.367%
311	21.048	20.994	21.108	VV	39166	2559237	42.81%	1.597%
312	21.123	21.108	21.164	VV	36142	1188590	19.88%	0.741%
313	21.182	21.164	21.232	VV	35291	1344454	22.49%	0.839%
314	21.242	21.232	21.274	VV	28715	702364	11.75%	0.438%
315	21.288	21.274	21.304	VV	29149	499989	8.36%	0.312%
316	21.327	21.304	21.379	VV	27937	1178777	19.72%	0.735%
317	21.391	21.379	21.431	VV	26141	785719	13.14%	0.490%
318	21.458	21.431	21.515	VV	24313	1101798	18.43%	0.687%
319	21.525	21.515	21.548	VV	20039	363027	6.07%	0.226%
320	21.557	21.548	21.591	VV	17453	423890	7.09%	0.264%
321	21.622	21.591	21.664	VV	18213	714547	11.95%	0.446%
322	21.676	21.664	21.688	VV	15858	217534	3.64%	0.136%
323	21.699	21.688	21.727	VV	15912	361101	6.04%	0.225%
324	21.739	21.727	21.780	VV	16093	460842	7.71%	0.287%
325	21.790	21.780	21.969	VV	13162	883744	14.78%	0.551%
326	21.988	21.969	22.027	VV	2965	61265	1.02%	0.038%
327	22.040	22.027	22.059	VV	1539	15579	0.26%	0.010%
					Sum of corrected areas:		160298209	

Aliphatic EPH 030325.M Thu Mar 13 05:48:01 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	6	SDG No.:	Q1542
Lab Sample ID:	Q1542-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 17:09	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	15.3		1	2.01	4.68	mg/kg	FE052769.D
Total EPH	Total EPH	15.3			2.01	4.68	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	03/10/25
Project:	248 Union St., Lodi	Date Received:	03/11/25
Client Sample ID:	6	SDG No.:	Q1542
Lab Sample ID:	Q1542-08	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052769.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	15.3		2.01	4.68	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	50.7	E	2.11	2.34	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.3		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.7		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-08	Acq On:	12 Mar 2025 17:09
Client Sample ID:	6	Operator:	YP\AJ
Data file:	FE052769.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	3.148	6.790	1186953	7.611	300	ug/ml
Aliphatic C12-C16	6.791	10.243	2233082	14.682	200	ug/ml
Aliphatic C16-C21	10.244	13.621	4073944	27.799	300	ug/ml
Aliphatic C21-C28	13.622	17.293	20841705	146.307	400	ug/ml
Aliphatic C28-C40	17.294	22.210	82862223	649.446	600	ug/ml
Aliphatic EPH	3.148	22.210	111197907	845.845		ug/ml
ortho-Terphenyl (SURR)	11.911	11.911	5680546	33.7		ug/ml
1-chlorooctadecane (SURR)	13.356	13.356	4287427	35.31		ug/ml
Aliphatic C9-C28	3.148	17.293	28335684	196.399	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052769.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 17:09
 Operator : YP\AJ
 Sample : Q1542-08
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 6

Integration File: autoint1.e
 Quant Time: Mar 13 03:58:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.911	5680546	33.695 ug/ml
Spiked Amount	50.000	Recovery	= 67.39%
12) S 1-chlorooctadecane (S...	13.356	4287427	35.309 ug/ml
Spiked Amount	50.000	Recovery	= 70.62%

Target Compounds

(f)=RT Delta > 1/2 Window

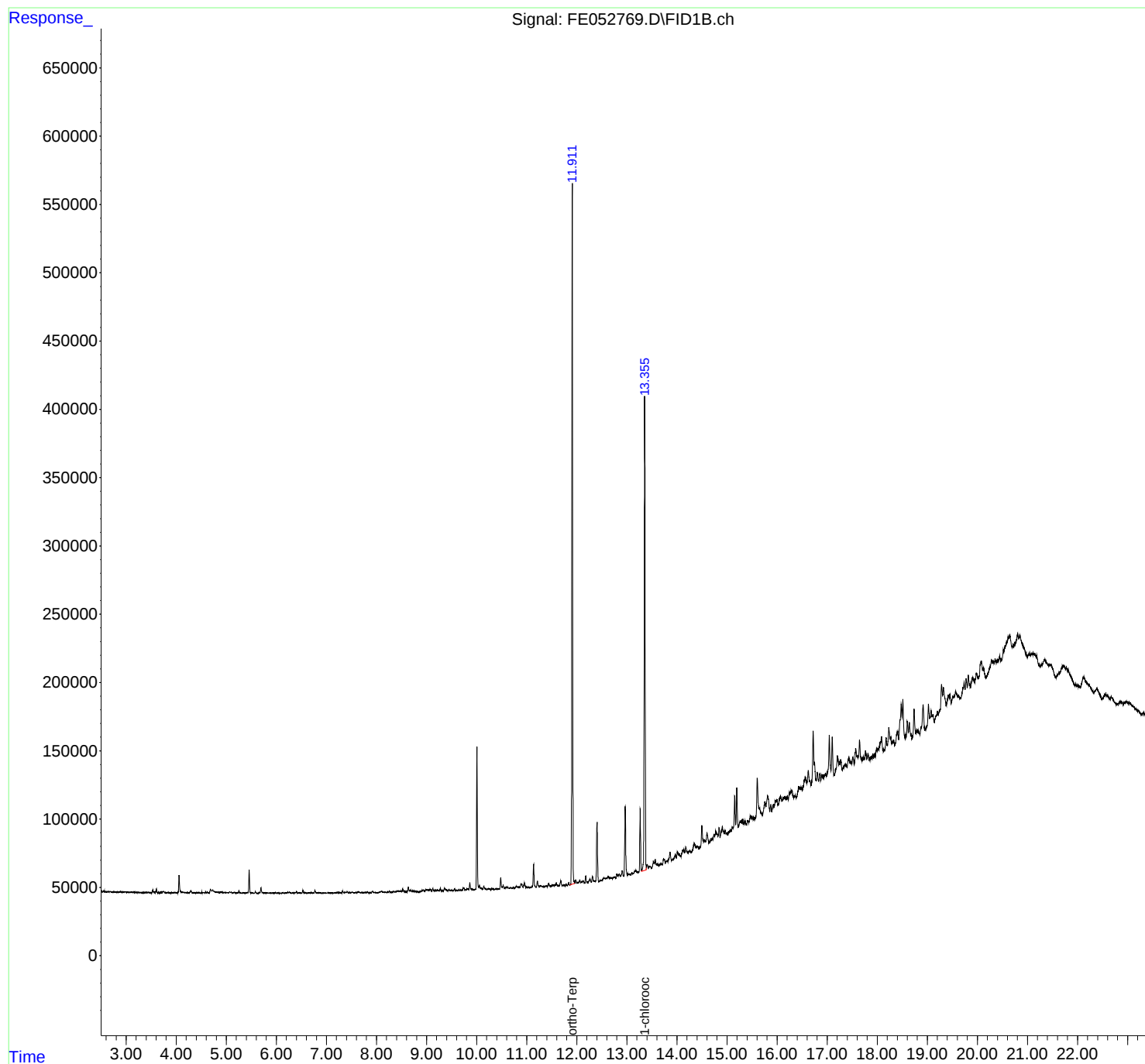
(m)=manual int.

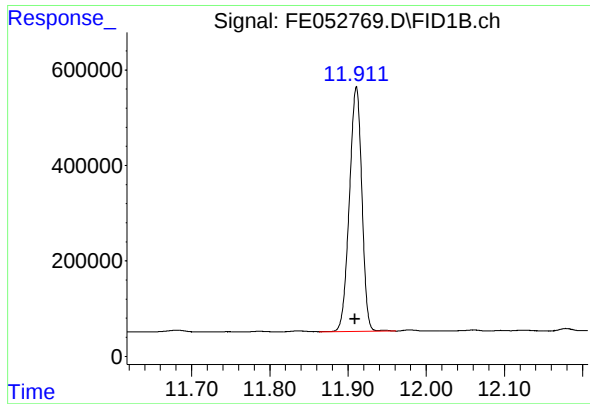
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052769.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 17:09
Operator : YP\AJ
Sample : Q1542-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
6

Integration File: autoint1.e
Quant Time: Mar 13 03:58:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

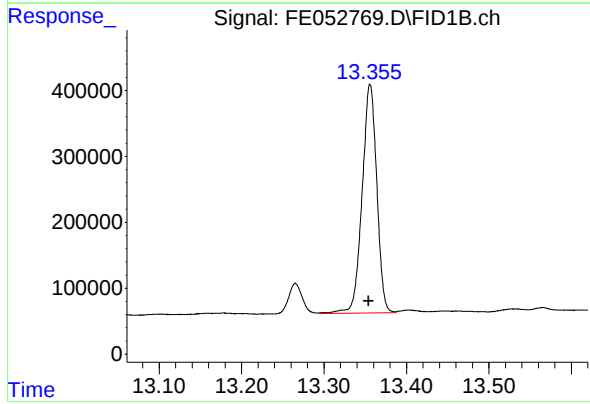




#9 ortho-Terphenyl (SURR)

R.T.: 11.911 min
Delta R.T.: 0.002 min
Response: 5680546
Conc: 33.70 ug/ml

Instrument :
FID_E
ClientSampleId :
6



#12 1-chlorooctadecane (SURR)

R.T.: 13.356 min
Delta R.T.: 0.002 min
Response: 4287427
Conc: 35.31 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052769.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 17:09
Sample : Q1542-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.881	2.805	2.928	BV	255	4786	0.08%	0.004%
2	2.938	2.928	2.951	VV	148	1397	0.02%	0.001%
3	2.981	2.951	3.035	VV	370	8077	0.14%	0.007%
4	3.047	3.035	3.086	VV	107	1649	0.03%	0.001%
5	3.111	3.086	3.165	VV	234	6429	0.11%	0.005%
6	3.168	3.165	3.195	VV	148	2044	0.04%	0.002%
7	3.203	3.195	3.218	VV	177	1256	0.02%	0.001%
8	3.245	3.218	3.311	PV	343	7751	0.14%	0.006%
9	3.324	3.311	3.348	PV	75	879	0.02%	0.001%
10	3.381	3.348	3.408	VV	149	3697	0.06%	0.003%
11	3.422	3.408	3.438	VV	146	1626	0.03%	0.001%
12	3.461	3.438	3.511	VV	174	5248	0.09%	0.004%
13	3.530	3.511	3.585	VV	1992	32589	0.57%	0.027%
14	3.603	3.585	3.675	VV	2896	34774	0.61%	0.029%
15	3.699	3.675	3.716	VV	328	3770	0.07%	0.003%
16	3.739	3.716	3.751	VV	1048	12837	0.22%	0.011%
17	3.754	3.751	3.775	VV	940	7157	0.13%	0.006%
18	3.813	3.775	3.881	VV	226	7968	0.14%	0.007%
19	3.884	3.881	3.944	VV	82	1611	0.03%	0.001%
20	3.963	3.944	4.011	VV	362	6062	0.11%	0.005%
21	4.019	4.011	4.031	VV	92	572	0.01%	0.000%
22	4.057	4.031	4.206	PV	12855	185405	3.24%	0.153%
23	4.230	4.206	4.258	VV	359	7379	0.13%	0.006%
24	4.295	4.258	4.331	VV	1837	29483	0.52%	0.024%
25	4.339	4.331	4.355	VV	241	2567	0.04%	0.002%
26	4.375	4.355	4.397	VV	191	3214	0.06%	0.003%
27	4.407	4.397	4.437	VV	153	2333	0.04%	0.002%
28	4.450	4.437	4.485	VV	138	1564	0.03%	0.001%
29	4.512	4.485	4.570	PV	620	16409	0.29%	0.014%
30	4.589	4.570	4.606	VV	680	10086	0.18%	0.008%
31	4.620	4.606	4.658	VV	740	11376	0.20%	0.009%
32	4.685	4.658	4.713	VV	2735	52727	0.92%	0.043%
33	4.729	4.713	4.819	VV	2539	77798	1.36%	0.064%
34	4.827	4.819	4.864	VV	710	16238	0.28%	0.013%
35	4.888	4.864	4.971	VV	831	35548	0.62%	0.029%
36	4.985	4.971	5.004	VV	525	8955	0.16%	0.007%

					rteres			
37	5.017	5.004	5.045	VV	444	9321	0.16%	0.008%
38	5.065	5.045	5.083	VV	1113	16094	0.28%	0.013%
39	5.097	5.083	5.124	VV	849	10678	0.19%	0.009%
40	5.156	5.124	5.215	VV	697	17043	0.30%	0.014%
41	5.251	5.215	5.288	VV	1815	25811	0.45%	0.021%
42	5.334	5.288	5.385	VV	442	12719	0.22%	0.010%
43	5.397	5.385	5.410	VV	321	3856	0.07%	0.003%
44	5.425	5.410	5.434	VV	681	6528	0.11%	0.005%
45	5.457	5.434	5.518	VV	17231	184965	3.23%	0.153%
46	5.530	5.518	5.554	VV	210	3190	0.06%	0.003%
47	5.581	5.554	5.631	VV	1296	16411	0.29%	0.014%
48	5.658	5.631	5.671	PV	493	6980	0.12%	0.006%
49	5.693	5.671	5.750	VV	4063	60071	1.05%	0.050%
50	5.765	5.750	5.798	VV	376	8248	0.14%	0.007%
51	5.815	5.798	5.833	VV	441	6626	0.12%	0.005%
52	5.846	5.833	5.878	VV	307	6749	0.12%	0.006%
53	5.893	5.878	5.901	VV	315	3307	0.06%	0.003%
54	5.916	5.901	5.951	VV	297	7356	0.13%	0.006%
55	5.980	5.951	6.011	VV	446	9771	0.17%	0.008%
56	6.022	6.011	6.080	VV	214	5973	0.10%	0.005%
57	6.130	6.080	6.151	VV	450	8417	0.15%	0.007%
58	6.167	6.151	6.180	VV	262	3531	0.06%	0.003%
59	6.196	6.180	6.207	VV	271	3587	0.06%	0.003%
60	6.230	6.207	6.246	VV	835	11919	0.21%	0.010%
61	6.265	6.246	6.300	VV	933	16639	0.29%	0.014%
62	6.316	6.300	6.322	VV	288	3095	0.05%	0.003%
63	6.334	6.322	6.349	VV	323	3798	0.07%	0.003%
64	6.375	6.349	6.387	VV	554	7870	0.14%	0.006%
65	6.404	6.387	6.436	VV	881	15052	0.26%	0.012%
66	6.452	6.436	6.503	VV	413	10308	0.18%	0.009%
67	6.529	6.503	6.562	VV	1976	27342	0.48%	0.023%
68	6.575	6.562	6.600	VV	419	7208	0.13%	0.006%
69	6.616	6.600	6.629	VV	263	3879	0.07%	0.003%
70	6.643	6.629	6.668	VV	270	4667	0.08%	0.004%
71	6.692	6.668	6.715	VV	646	9348	0.16%	0.008%
72	6.724	6.715	6.745	VV	306	3487	0.06%	0.003%
73	6.771	6.745	6.828	VV	2148	34186	0.60%	0.028%
74	6.845	6.828	6.868	VV	497	7451	0.13%	0.006%
75	6.879	6.868	6.907	VV	220	4074	0.07%	0.003%
76	6.923	6.907	6.937	VV	212	2828	0.05%	0.002%
77	6.973	6.937	6.992	VV	232	4706	0.08%	0.004%
78	7.031	6.992	7.075	PV	543	7798	0.14%	0.006%
79	7.096	7.075	7.123	VV	224	4147	0.07%	0.003%
80	7.159	7.123	7.190	VV	310	7886	0.14%	0.007%
81	7.229	7.190	7.255	VV	588	15426	0.27%	0.013%
82	7.266	7.255	7.288	VV	474	6557	0.11%	0.005%
83	7.325	7.288	7.347	VV	1534	22038	0.39%	0.018%
84	7.364	7.347	7.390	VV	536	10338	0.18%	0.009%
85	7.412	7.390	7.451	VV	1032	17866	0.31%	0.015%
86	7.467	7.451	7.495	VV	506	7150	0.13%	0.006%
87	7.511	7.495	7.535	VV	786	10174	0.18%	0.008%
88	7.543	7.535	7.569	VV	292	3812	0.07%	0.003%
89	7.586	7.569	7.608	VV	289	5396	0.09%	0.004%

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90	7.643	7.608	7.667	VV	971	17852	0.31%	0.015%
91	7.704	7.667	7.745	VV	282	10637	0.19%	0.009%
92	7.753	7.745	7.757	VV	263	1532	0.03%	0.001%
93	7.774	7.757	7.791	VV	351	5326	0.09%	0.004%
94	7.816	7.791	7.850	VV	435	9390	0.16%	0.008%
95	7.865	7.850	7.885	VV	354	3089	0.05%	0.003%
96	7.913	7.885	7.965	VV	930	18734	0.33%	0.015%
97	7.984	7.965	8.005	VV	153	1963	0.03%	0.002%
98	8.018	8.005	8.033	PV	163	1901	0.03%	0.002%
99	8.076	8.033	8.084	VV	705	11686	0.20%	0.010%
100	8.098	8.084	8.154	VV	1023	21034	0.37%	0.017%
101	8.173	8.154	8.193	VV	375	4773	0.08%	0.004%
102	8.219	8.193	8.234	VV	350	5733	0.10%	0.005%
103	8.256	8.234	8.315	VV	737	14784	0.26%	0.012%
104	8.345	8.315	8.366	VV	966	14986	0.26%	0.012%
105	8.420	8.366	8.435	VV	987	22842	0.40%	0.019%
106	8.452	8.435	8.474	VV	717	16225	0.28%	0.013%
107	8.496	8.474	8.507	VV	950	16179	0.28%	0.013%
108	8.527	8.507	8.601	VV	2091	41955	0.73%	0.035%
109	8.636	8.601	8.665	VV	3642	54947	0.96%	0.045%
110	8.684	8.665	8.702	VV	1324	21896	0.38%	0.018%
111	8.714	8.702	8.731	VV	808	10674	0.19%	0.009%
112	8.752	8.731	8.805	VV	697	17870	0.31%	0.015%
113	8.812	8.805	8.848	VV	234	3723	0.07%	0.003%
114	8.912	8.848	8.922	PV	1279	22489	0.39%	0.019%
115	8.932	8.922	8.951	VV	1400	17947	0.31%	0.015%
116	8.962	8.951	8.967	VV	734	5821	0.10%	0.005%
117	8.985	8.967	8.995	VV	1462	18026	0.32%	0.015%
118	9.004	8.995	9.035	VV	1388	27842	0.49%	0.023%
119	9.071	9.035	9.103	VV	1736	45051	0.79%	0.037%
120	9.125	9.103	9.145	VV	2259	29192	0.51%	0.024%
121	9.153	9.145	9.164	VV	691	6888	0.12%	0.006%
122	9.180	9.164	9.198	VV	776	11214	0.20%	0.009%
123	9.216	9.198	9.238	VV	1047	16472	0.29%	0.014%
124	9.276	9.238	9.311	VV	1782	31578	0.55%	0.026%
125	9.359	9.311	9.428	VV	2134	54831	0.96%	0.045%
126	9.449	9.428	9.472	VV	1193	15616	0.27%	0.013%
127	9.507	9.472	9.525	VV	386	7256	0.13%	0.006%
128	9.559	9.525	9.582	VV	1613	22117	0.39%	0.018%
129	9.593	9.582	9.620	VV	387	5069	0.09%	0.004%
130	9.643	9.620	9.677	PV	614	10580	0.18%	0.009%
131	9.691	9.677	9.705	VV	309	3597	0.06%	0.003%
132	9.741	9.705	9.778	VV	1621	39801	0.70%	0.033%
133	9.810	9.778	9.843	VV	1153	29731	0.52%	0.025%
134	9.865	9.843	9.948	VV	5537	85188	1.49%	0.070%
135	10.007	9.948	10.039	VV	104450	1107366	19.36%	0.913%
136	10.055	10.039	10.121	VV	3591	78994	1.38%	0.065%
137	10.144	10.121	10.201	VV	2643	53038	0.93%	0.044%
138	10.247	10.201	10.278	VV	769	19911	0.35%	0.016%
139	10.311	10.278	10.358	PV	632	12766	0.22%	0.011%
140	10.392	10.358	10.408	VV	345	7321	0.13%	0.006%
141	10.414	10.408	10.448	VV	331	3831	0.07%	0.003%

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142	10.482	10.448	10.515	PV	8413	113120	1.98%	0.093%
143	10.532	10.515	10.556	VV	2436	39270	0.69%	0.032%
144	10.586	10.556	10.605	VV	1377	29735	0.52%	0.025%
145	10.615	10.605	10.642	VV	1251	19969	0.35%	0.016%
146	10.679	10.642	10.707	VV	877	20357	0.36%	0.017%
147	10.728	10.707	10.761	VV	728	13518	0.24%	0.011%
148	10.790	10.761	10.825	VV	1642	36446	0.64%	0.030%
149	10.838	10.825	10.861	VV	1111	16996	0.30%	0.014%
150	10.889	10.861	10.920	VV	3059	69281	1.21%	0.057%
151	10.956	10.920	10.997	VV	3739	78471	1.37%	0.065%
152	11.008	10.997	11.061	VV	541	11952	0.21%	0.010%
153	11.139	11.061	11.187	PV	17055	219174	3.83%	0.181%
154	11.215	11.187	11.253	VV	4584	68581	1.20%	0.057%
155	11.280	11.253	11.308	VV	1078	24499	0.43%	0.020%
156	11.318	11.308	11.342	VV	476	7266	0.13%	0.006%
157	11.367	11.342	11.377	VV	321	5753	0.10%	0.005%
158	11.393	11.377	11.410	VV	591	7410	0.13%	0.006%
159	11.436	11.410	11.472	VV	2413	38753	0.68%	0.032%
160	11.496	11.472	11.511	VV	883	12043	0.21%	0.010%
161	11.524	11.511	11.545	VV	937	15008	0.26%	0.012%
162	11.561	11.545	11.572	VV	976	12280	0.21%	0.010%
163	11.591	11.572	11.624	VV	2692	37746	0.66%	0.031%
164	11.636	11.624	11.643	VV	385	4116	0.07%	0.003%
165	11.681	11.643	11.709	VV	3893	66673	1.17%	0.055%
166	11.718	11.709	11.725	VV	236	2276	0.04%	0.002%
167	11.746	11.725	11.766	VV	631	8188	0.14%	0.007%
168	11.787	11.766	11.811	PV	1389	15999	0.28%	0.013%
169	11.837	11.811	11.863	PV	2112	27450	0.48%	0.023%
170	11.911	11.863	11.962	VV	514763	5719881	100.00%	4.718%
171	11.979	11.962	12.005	VV	3437	53121	0.93%	0.044%
172	12.015	12.005	12.027	VV	1333	16488	0.29%	0.014%
173	12.060	12.027	12.079	VV	2831	54740	0.96%	0.045%
174	12.096	12.079	12.108	VV	1873	24344	0.43%	0.020%
175	12.125	12.108	12.158	VV	2263	39145	0.68%	0.032%
176	12.179	12.158	12.222	VV	5554	79023	1.38%	0.065%
177	12.264	12.222	12.290	VV	2844	62919	1.10%	0.052%
178	12.314	12.290	12.341	VV	4475	70774	1.24%	0.058%
179	12.353	12.341	12.374	VV	1356	20938	0.37%	0.017%
180	12.404	12.374	12.443	VV	44003	570108	9.97%	0.470%
181	12.480	12.443	12.499	PV	946	20579	0.36%	0.017%
182	12.536	12.499	12.577	VV	2073	70122	1.23%	0.058%
183	12.596	12.577	12.604	VV	1535	22730	0.40%	0.019%
184	12.624	12.604	12.641	VV	2455	41083	0.72%	0.034%
185	12.651	12.641	12.668	VV	1375	18895	0.33%	0.016%
186	12.683	12.668	12.707	VV	1275	22056	0.39%	0.018%
187	12.759	12.707	12.776	VV	1134	33320	0.58%	0.027%
188	12.803	12.776	12.819	VV	3014	40944	0.72%	0.034%
189	12.848	12.819	12.869	VV	2665	54534	0.95%	0.045%
190	12.908	12.869	12.931	VV	4271	76553	1.34%	0.063%
191	12.966	12.931	13.012	VV	51197	659859	11.54%	0.544%
192	13.025	13.012	13.041	VV	1001	13084	0.23%	0.011%
193	13.054	13.041	13.074	VV	609	8171	0.14%	0.007%
194	13.102	13.074	13.131	PV	1268	21944	0.38%	0.018%

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195	13.178	13.131	13.219	VV	2129	61196	1.07%	0.050%
196	13.265	13.219	13.294	PV	45880	520802	9.11%	0.430%
197	13.356	13.294	13.387	VV	347665	4297294	75.13%	3.545%
198	13.403	13.387	13.426	VV	4026	63834	1.12%	0.053%
199	13.447	13.426	13.498	VV	2070	56892	0.99%	0.047%
200	13.531	13.498	13.547	VV	4196	78411	1.37%	0.065%
201	13.565	13.547	13.600	VV	5902	103438	1.81%	0.085%
202	13.612	13.600	13.641	VV	1572	27738	0.48%	0.023%
203	13.665	13.641	13.674	VV	1175	15383	0.27%	0.013%
204	13.688	13.674	13.705	VV	1288	16314	0.29%	0.013%
205	13.733	13.705	13.772	PV	3929	94896	1.66%	0.078%
206	13.796	13.772	13.816	VV	1860	34985	0.61%	0.029%
207	13.861	13.816	13.901	VV	7152	143492	2.51%	0.118%
208	13.967	13.901	13.986	VV	3388	78713	1.38%	0.065%
209	14.009	13.986	14.034	VV	5196	96230	1.68%	0.079%
210	14.048	14.034	14.071	VV	2775	45491	0.80%	0.038%
211	14.112	14.071	14.125	VV	4709	84278	1.47%	0.070%
212	14.135	14.125	14.154	VV	4649	64407	1.13%	0.053%
213	14.176	14.154	14.218	VV	5876	119322	2.09%	0.098%
214	14.257	14.218	14.280	VV	1803	46781	0.82%	0.039%
215	14.344	14.280	14.375	VV	6198	164684	2.88%	0.136%
216	14.411	14.375	14.438	VV	3008	86878	1.52%	0.072%
217	14.448	14.438	14.461	VV	1288	16667	0.29%	0.014%
218	14.496	14.461	14.541	VV	16603	341707	5.97%	0.282%
219	14.555	14.541	14.567	VV	4941	69438	1.21%	0.057%
220	14.599	14.567	14.655	VV	9588	257220	4.50%	0.212%
221	14.675	14.655	14.688	VV	4357	63937	1.12%	0.053%
222	14.738	14.688	14.755	VV	6562	175258	3.06%	0.145%
223	14.773	14.755	14.819	VV	8301	237706	4.16%	0.196%
224	14.841	14.819	14.860	VV	9597	149185	2.61%	0.123%
225	14.905	14.860	14.945	VV	9632	303106	5.30%	0.250%
226	14.964	14.945	14.981	VV	5857	99564	1.74%	0.082%
227	14.992	14.981	15.011	VV	3761	55436	0.97%	0.046%
228	15.028	15.011	15.038	VV	3521	49541	0.87%	0.041%
229	15.071	15.038	15.087	VV	3974	109386	1.91%	0.090%
230	15.114	15.087	15.124	VV	5871	112630	1.97%	0.093%
231	15.152	15.124	15.172	VV	27881	427058	7.47%	0.352%
232	15.193	15.172	15.228	VV	32696	500291	8.75%	0.413%
233	15.275	15.228	15.301	VV	7893	288885	5.05%	0.238%
234	15.313	15.301	15.333	VV	8074	129816	2.27%	0.107%
235	15.363	15.333	15.390	VV	6600	177577	3.10%	0.146%
236	15.413	15.390	15.432	VV	6096	126678	2.21%	0.104%
237	15.465	15.432	15.482	VV	8594	198750	3.47%	0.164%
238	15.499	15.482	15.518	VV	7555	148708	2.60%	0.123%
239	15.530	15.518	15.544	VV	5794	87904	1.54%	0.073%
240	15.603	15.544	15.710	VV	34030	1181540	20.66%	0.975%
241	15.754	15.710	15.776	VV	14393	432821	7.57%	0.357%
242	15.811	15.776	15.851	VV	17867	610858	10.68%	0.504%
243	15.872	15.851	15.891	VV	10577	194562	3.40%	0.160%
244	15.923	15.891	15.940	VV	9756	236745	4.14%	0.195%
245	15.965	15.940	15.980	VV	11847	248867	4.35%	0.205%
246	15.991	15.980	16.025	VV	12630	280326	4.90%	0.231%

					rteres			
247	16.064	16.025	16.104	VV	13735	533705	9.33%	0.440%
248	16.149	16.104	16.178	VV	12234	486113	8.50%	0.401%
249	16.200	16.178	16.223	VV	11139	283897	4.96%	0.234%
250	16.295	16.223	16.335	VV	14463	813440	14.22%	0.671%
251	16.361	16.335	16.385	VV	9602	265814	4.65%	0.219%
252	16.431	16.385	16.475	VV	14913	651060	11.38%	0.537%
253	16.487	16.475	16.506	VV	13315	241862	4.23%	0.199%
254	16.567	16.506	16.593	VV	19873	851054	14.88%	0.702%
255	16.622	16.593	16.673	VV	23601	841723	14.72%	0.694%
256	16.719	16.673	16.785	VV	51190	1634217	28.57%	1.348%
257	16.803	16.785	16.829	VV	19654	440423	7.70%	0.363%
258	16.852	16.829	16.875	VV	17415	413693	7.23%	0.341%
259	16.888	16.875	16.923	VV	15982	442618	7.74%	0.365%
260	16.970	16.923	16.983	VV	16584	549884	9.61%	0.454%
261	17.041	16.983	17.075	VV	42881	1251202	21.87%	1.032%
262	17.100	17.075	17.144	VV	41236	941366	16.46%	0.776%
263	17.205	17.144	17.230	VV	25470	962721	16.83%	0.794%
264	17.272	17.230	17.304	VV	21364	832892	14.56%	0.687%
265	17.357	17.304	17.371	VV	17113	635745	11.11%	0.524%
266	17.380	17.371	17.398	VV	16095	243640	4.26%	0.201%
267	17.432	17.398	17.493	VV	19288	991267	17.33%	0.818%
268	17.512	17.493	17.544	VV	19281	517588	9.05%	0.427%
269	17.570	17.544	17.591	VV	24970	595699	10.41%	0.491%
270	17.600	17.591	17.620	VV	19644	324901	5.68%	0.268%
271	17.645	17.620	17.675	VV	29296	725276	12.68%	0.598%
272	17.684	17.675	17.701	VV	16688	252697	4.42%	0.208%
273	17.720	17.701	17.738	VV	17183	344027	6.01%	0.284%
274	17.764	17.738	17.792	VV	20747	555299	9.71%	0.458%
275	17.814	17.792	17.840	VV	17923	441344	7.72%	0.364%
276	17.878	17.840	17.891	VV	14463	424528	7.42%	0.350%
277	17.912	17.891	17.928	VV	15637	314534	5.50%	0.259%
278	17.944	17.928	17.956	VV	15535	238825	4.18%	0.197%
279	18.084	17.956	18.143	VV	25932	2063166	36.07%	1.702%
280	18.176	18.143	18.205	VV	23906	690716	12.08%	0.570%
281	18.231	18.205	18.304	VV	29891	1333993	23.32%	1.100%
282	18.324	18.304	18.345	VV	19546	433655	7.58%	0.358%
283	18.407	18.345	18.426	VV	24290	991198	17.33%	0.818%
284	18.478	18.426	18.494	VV	43054	1324729	23.16%	1.093%
285	18.511	18.494	18.552	VV	45878	1059356	18.52%	0.874%
286	18.566	18.552	18.576	VV	19801	267095	4.67%	0.220%
287	18.599	18.576	18.621	VV	29228	639323	11.18%	0.527%
288	18.640	18.621	18.698	VV	27631	936766	16.38%	0.773%
289	18.735	18.698	18.769	VV	35729	1006437	17.60%	0.830%
290	18.791	18.769	18.851	VV	19768	880559	15.39%	0.726%
291	18.915	18.851	18.955	VV	35885	1470285	25.70%	1.213%
292	19.022	18.955	19.048	VV	35138	1314546	22.98%	1.084%
293	19.075	19.048	19.095	VV	29747	748110	13.08%	0.617%
294	19.114	19.095	19.136	VV	26140	597328	10.44%	0.493%
295	19.200	19.136	19.216	VV	26954	1150183	20.11%	0.949%
296	19.283	19.216	19.303	VV	45276	1698616	29.70%	1.401%
297	19.321	19.303	19.375	VV	42557	1556628	27.21%	1.284%
298	19.424	19.375	19.435	VV	35510	1167566	20.41%	0.963%
299	19.448	19.435	19.475	VV	35649	797916	13.95%	0.658%

					rteres			
300	19.506	19.475	19.525	VV	33190	939985	16.43%	0.775%
301	19.565	19.525	19.606	VV	36447	1638624	28.65%	1.352%
302	19.617	19.606	19.664	VV	32535	1073012	18.76%	0.885%
303	19.734	19.664	19.754	VV	39872	1862679	32.56%	1.536%
304	19.774	19.754	19.797	VV	41913	997427	17.44%	0.823%
305	19.818	19.797	19.863	VV	43714	1517630	26.53%	1.252%
306	19.901	19.863	19.951	VV	40933	2015732	35.24%	1.663%
307	19.984	19.951	20.018	VV	42765	1611369	28.17%	1.329%
308	20.080	20.018	20.103	VV	50110	2290111	40.04%	1.889%
309	20.119	20.103	20.171	VV	44200	1677788	29.33%	1.384%
310	20.282	20.171	20.301	VV	47763	3266739	57.11%	2.694%
311	20.353	20.301	20.375	VV	47795	2011827	35.17%	1.659%
312	20.386	20.375	20.394	VV	45715	541047	9.46%	0.446%
313	20.405	20.394	20.421	VV	45641	709271	12.40%	0.585%
314	20.444	20.421	20.485	VV	48555	1760256	30.77%	1.452%
315	20.527	20.485	20.533	VV	51714	1405972	24.58%	1.160%
316	20.650	20.533	20.691	VV	60423	5317694	92.97%	4.386%
317	20.711	20.691	20.720	VV	52108	884837	15.47%	0.730%
318	20.801	20.720	20.825	VV	58150	3401916	59.48%	2.806%
319	20.845	20.825	20.898	VV	57258	2375015	41.52%	1.959%
320	20.903	20.898	21.001	VV	50020	2738366	47.87%	2.259%
321	21.050	21.001	21.069	VV	40640	1617255	28.27%	1.334%
322	21.087	21.069	21.104	VV	40484	834425	14.59%	0.688%
323	21.119	21.104	21.175	VV	39669	1636592	28.61%	1.350%
324	21.185	21.175	21.247	VV	37220	1396688	24.42%	1.152%
325	21.281	21.247	21.290	VV	29003	744476	13.02%	0.614%
326	21.344	21.290	21.452	VV	31492	2785025	48.69%	2.297%
327	21.466	21.452	21.574	VV	26155	1523621	26.64%	1.257%
328	21.695	21.574	21.703	VV	21186	1379512	24.12%	1.138%
329	21.718	21.703	21.761	VV	21244	694108	12.14%	0.573%
330	21.774	21.761	21.800	VV	19186	427120	7.47%	0.352%
331	21.811	21.800	21.942	VV	16722	901880	15.77%	0.744%
332	21.960	21.942	22.052	VV	3941	150683	2.63%	0.124%
Sum of corrected areas:					121237417			

Aliphatic EPH 030325.M Thu Mar 13 05:49:34 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FE030325AL

AreaCount

Parameter Range	FE052574.D	FE052575.D	FE052576.D	FE052577.D	FE052578.D	
Aliphatic C9-C12	42442133.000	21908913.000	9597805.000	4926333.000	2520517.000	
Aliphatic C12-C16	27580281.000	14251729.000	6250320.000	3204581.000	1635867.000	
Aliphatic C16-C21	39738338.000	20559097.000	9010211.000	4640638.000	2375408.000	
Aliphatic C21-C28	50608585.000	26547978.000	11639338.000	6148197.000	3076025.000	
Aliphatic C28-C40	66374736.000	34517397.000	15630021.000	8240673.000	4340048.000	
Aliphatic EPH	226744073.000	117785114.000	52127695.000	27160422.000	13947865.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	155948.4359996	7.435				
Aliphatic C12-C16	152098.489	7.415				
Aliphatic C16-C21	146548.0846662	7.685				
Aliphatic C21-C28	142451.8505	8.689				
Aliphatic C28-C40	127589.1083332	11.35				
Aliphatic EPH	141501.5884438	8.903				

Concentration

Parameter Range	FE052574.D	FE052575.D	FE052576.D	FE052577.D	FE052578.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	FE052574.D	FE052575.D	FE052576.D	FE052577.D	FE052578.D	
Aliphatic C9-C12	141473.776666	146059.420000	159963.416666	164211.100000	168034.466666	
Aliphatic C12-C16	137901.405000	142517.290000	156258.000000	160229.050000	163586.700000	
Aliphatic C16-C21	132461.126666	137060.646666	150170.183333	154687.933333	158360.533333	

Initial Calibration Report for SequenceID : FE030325AL

Aliphatic C21-C28	126521.462500	132739.890000	145491.725000	153704.925000	153801.250000	
Aliphatic C28-C40	110624.560000	115057.990000	130250.175000	137344.550000	144668.266666	
Aliphatic EPH	125968.929444	130872.348888	144799.152777	150891.233333	154976.277777	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052574.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 11:03
 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: Mar 03 12:35:11 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 12:32:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.921	15249190	93.747 ug/ml
Spiked Amount 50.000		Recovery =	187.49%
12) S 1-chlorooctadecane (S...	13.362	11123183	94.425 ug/ml
Spiked Amount 50.000		Recovery =	188.85%
Target Compounds			
1) T n-Nonane (C9)	3.257	14069581	93.932 ug/ml
2) T n-Decane (C10)	4.520	14244956	93.842 ug/ml
3) T A~Naphthalene (C11.7)	6.234	15515805	94.126 ug/ml
4) T n-Dodecane (C12)	6.701	14127596	93.824 ug/ml
5) T A~2-methylnaphthalene...	7.337	14872839	94.265 ug/ml
6) T n-Tetradecane (C14)	8.538	13725919	93.771 ug/ml
7) T n-Hexadecane (C16)	10.153	13854362	93.748 ug/ml
8) T n-Octadecane (C18)	11.603	13752507	93.737 ug/ml
10) T n-Eicosane (C20)	12.917	13115140	93.713 ug/ml
11) T n-Heneicosane (C21)	13.531	12870691	93.753 ug/ml
13) T n-Docosane (C22)	14.119	12800111	93.460 ug/ml
14) T n-Tetracosane (C24)	15.226	12766560	93.227 ug/ml
15) T n-Hexacosane (C26)	16.249	12617268	93.065 ug/ml
16) T n-Octacosane (C28)	17.201	12424646	92.341 ug/ml
17) T n-Tricontane (C30)	18.092	12609210	91.462 ug/ml
18) T n-Dotriacontane (C32)	18.928	12252844	90.798 ug/ml
19) T n-Tetratriacontane (C34)	19.714	11540152	91.301 ug/ml
20) T n-Hexatriacontane (C36)	20.455	10354123	91.810 ug/ml
21) T n-Octatriacontane (C38)	21.198	9888606	92.810 ug/ml
22) T n-Tetracontane (C40)	22.124	9729801	93.471 ug/ml

(f)=RT Delta > 1/2 Window

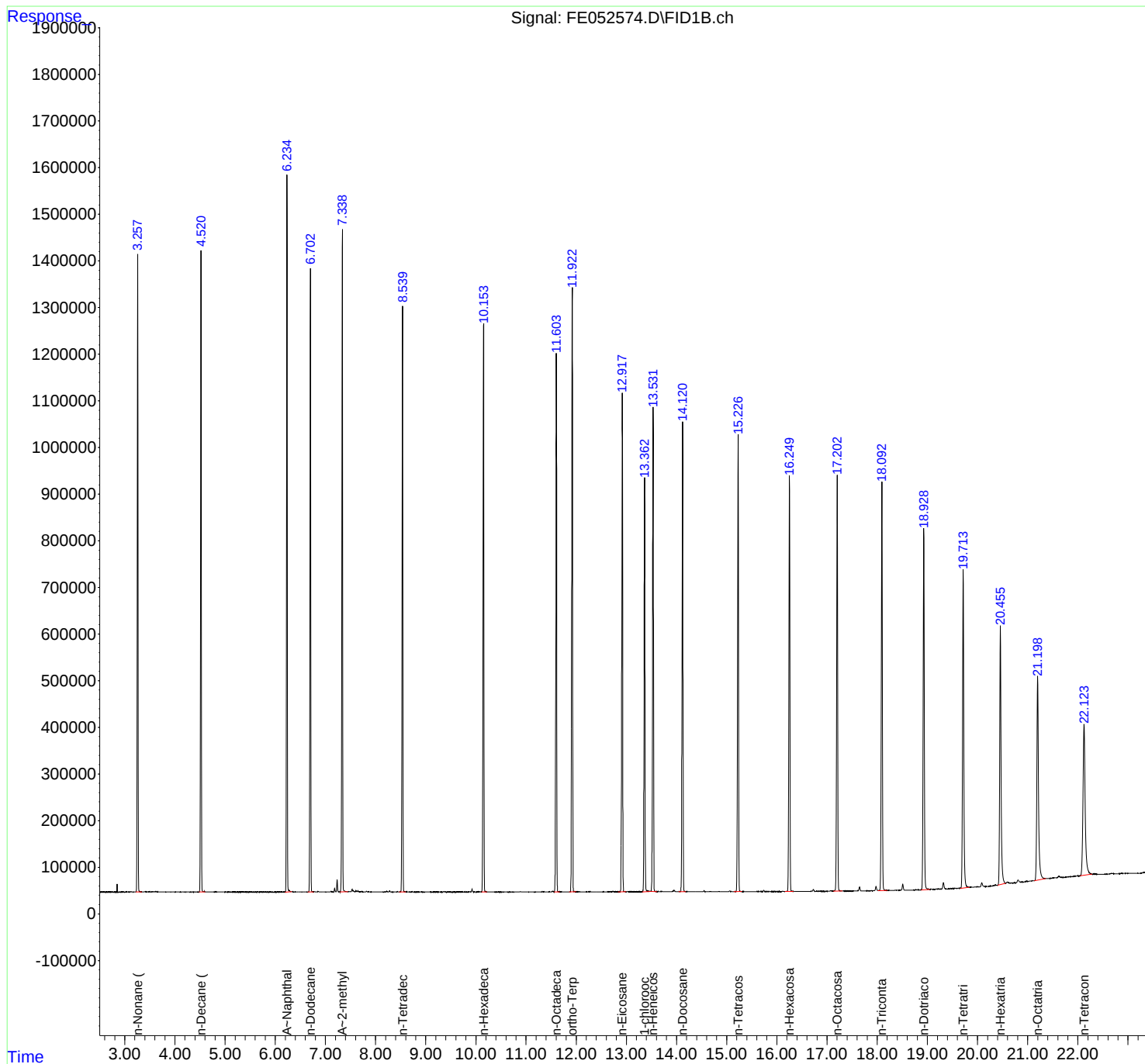
(m)=manual int.

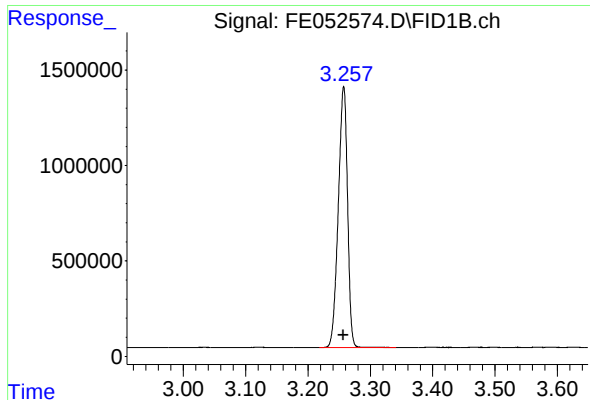
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052574.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:03
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Mar 03 12:35:11 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:32:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

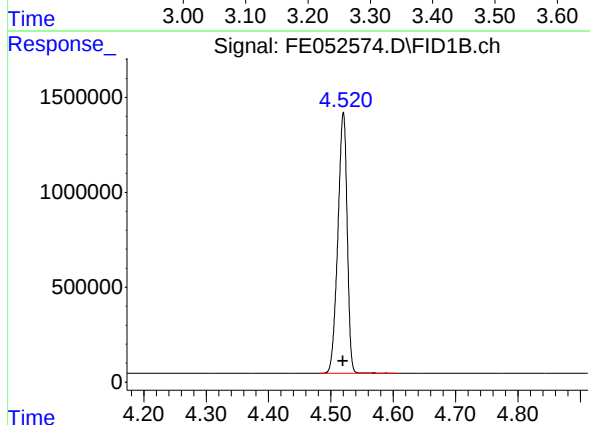




#1 n-Nonane (C9)

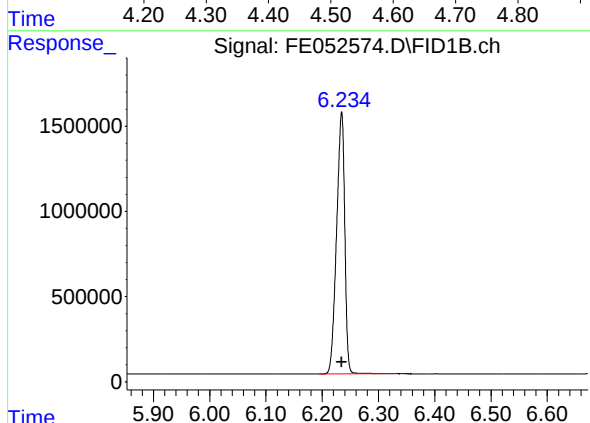
R.T.: 3.257 min
Delta R.T.: 0.000 min
Response: 14069581
Conc: 93.93 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



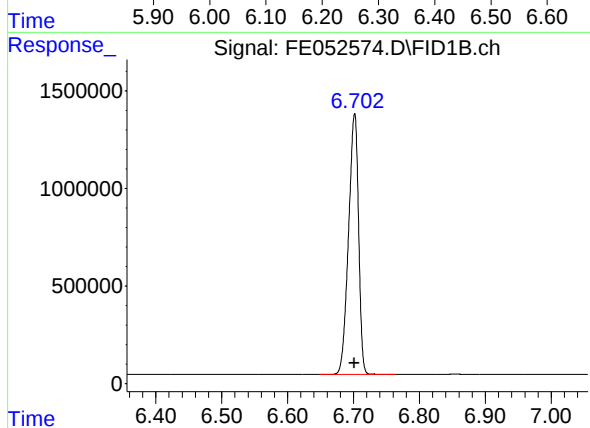
#2 n-Decane (C10)

R.T.: 4.520 min
Delta R.T.: 0.000 min
Response: 14244956
Conc: 93.84 ug/ml



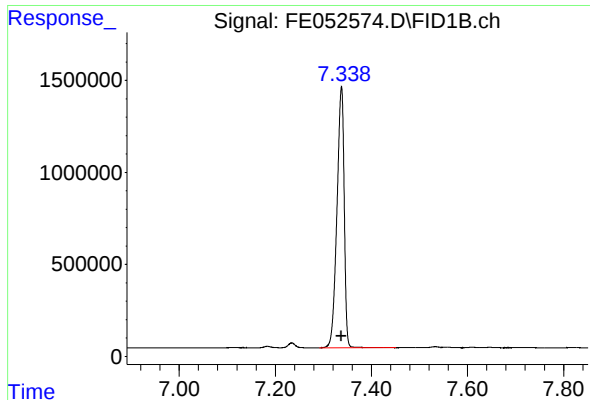
#3 A~Naphthalene (C11.7)

R.T.: 6.234 min
Delta R.T.: 0.000 min
Response: 15515805
Conc: 94.13 ug/ml



#4 n-Dodecane (C12)

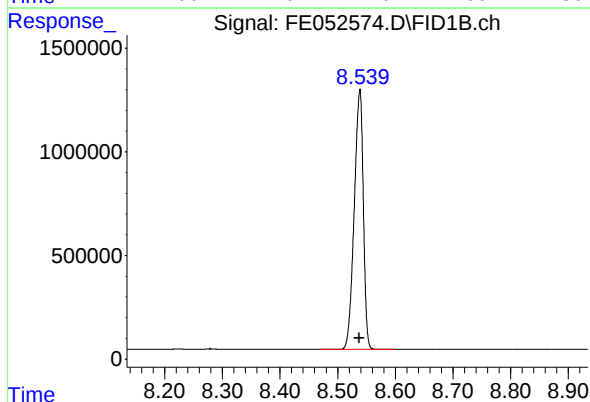
R.T.: 6.701 min
Delta R.T.: 0.000 min
Response: 14127596
Conc: 93.82 ug/ml



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

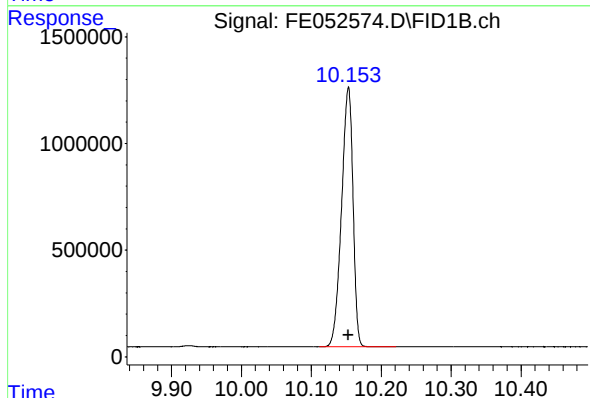
R.T.: 7.337 min
Delta R.T.: 0.000 min
Response: 14872839
Conc: 94.27 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



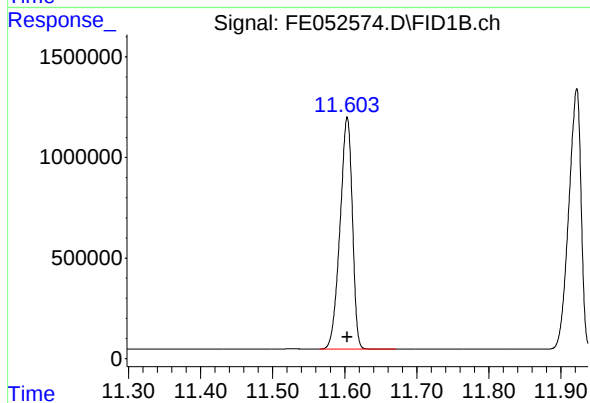
#6 n-Tetradecane (C14)

R.T.: 8.538 min
Delta R.T.: 0.000 min
Response: 13725919
Conc: 93.77 ug/ml



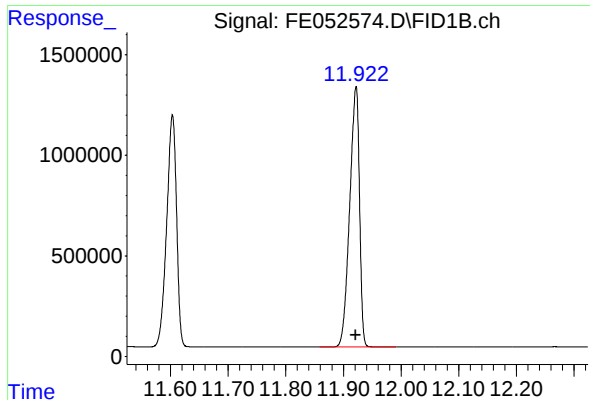
#7 n-Hexadecane (C16)

R.T.: 10.153 min
Delta R.T.: 0.000 min
Response: 13854362
Conc: 93.75 ug/ml



#8 n-Octadecane (C18)

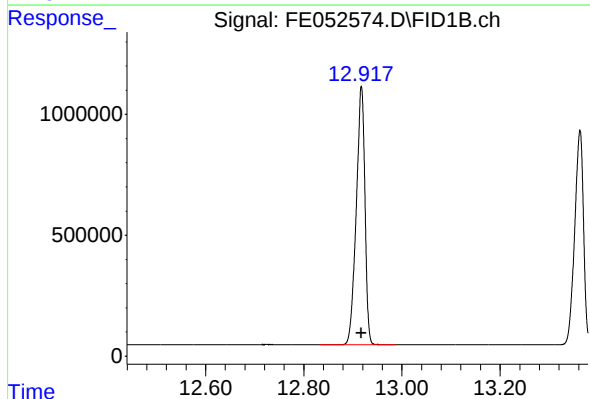
R.T.: 11.603 min
Delta R.T.: 0.000 min
Response: 13752507
Conc: 93.74 ug/ml



#9 ortho-Terphenyl (SURR)

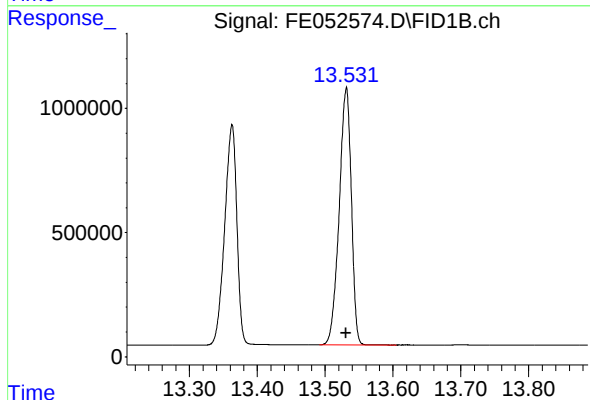
R.T.: 11.921 min
Delta R.T.: 0.000 min
Response: 15249190
Conc: 93.75 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



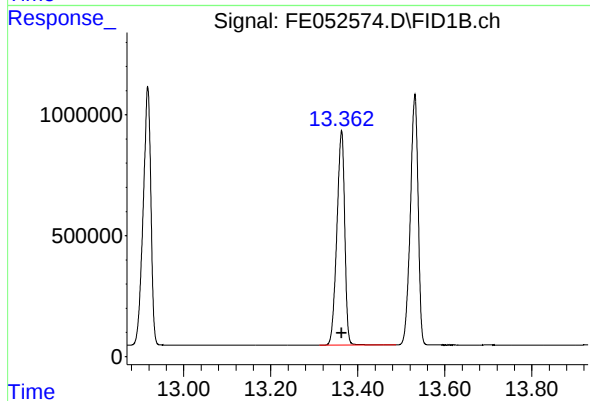
#10 n-Eicosane (C20)

R.T.: 12.917 min
Delta R.T.: 0.000 min
Response: 13115140
Conc: 93.71 ug/ml



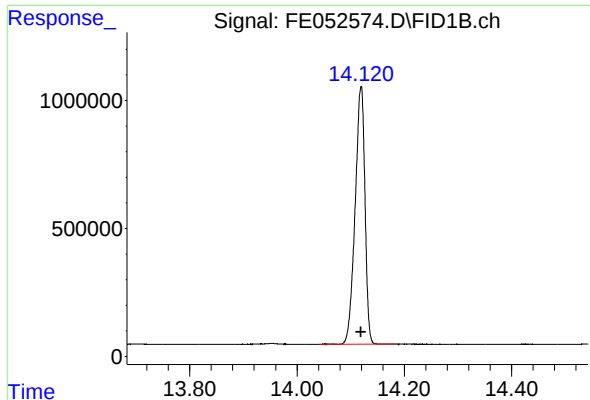
#11 n-Heneicosane (C21)

R.T.: 13.531 min
Delta R.T.: 0.000 min
Response: 12870691
Conc: 93.75 ug/ml



#12 1-chlorooctadecane (SURR)

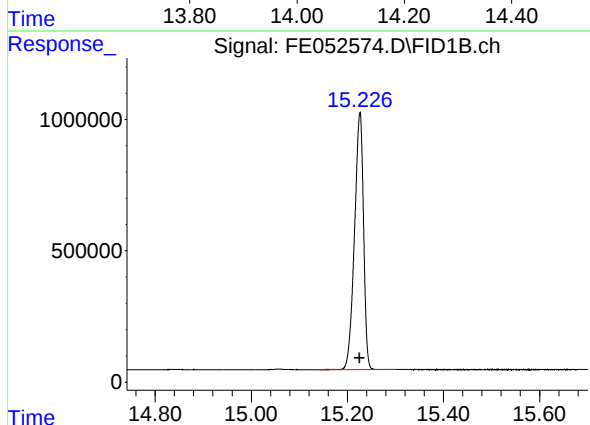
R.T.: 13.362 min
Delta R.T.: 0.000 min
Response: 11123183
Conc: 94.43 ug/ml



#13 n-Docosane (C22)

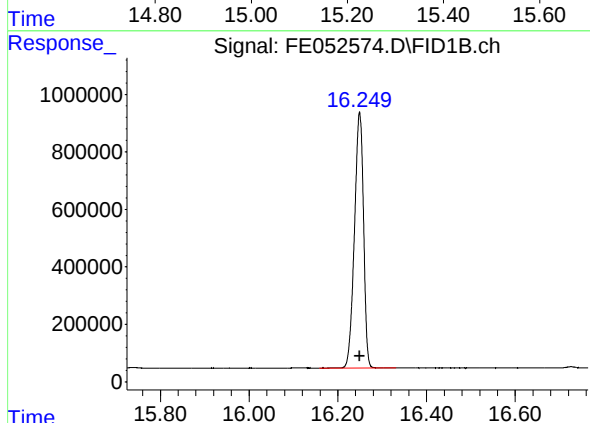
R.T.: 14.119 min
Delta R.T.: 0.000 min
Response: 12800111
Conc: 93.46 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



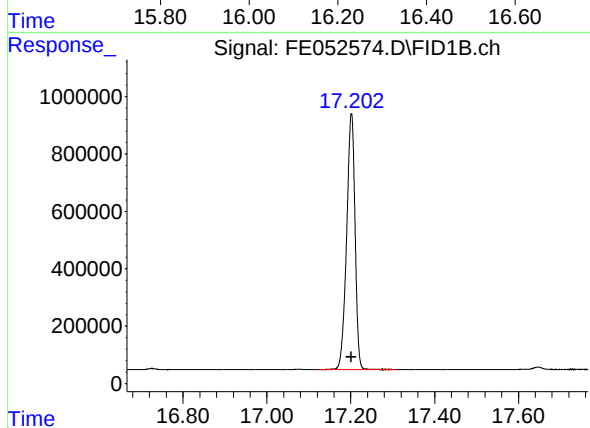
#14 n-Tetracosane (C24)

R.T.: 15.226 min
Delta R.T.: 0.000 min
Response: 12766560
Conc: 93.23 ug/ml



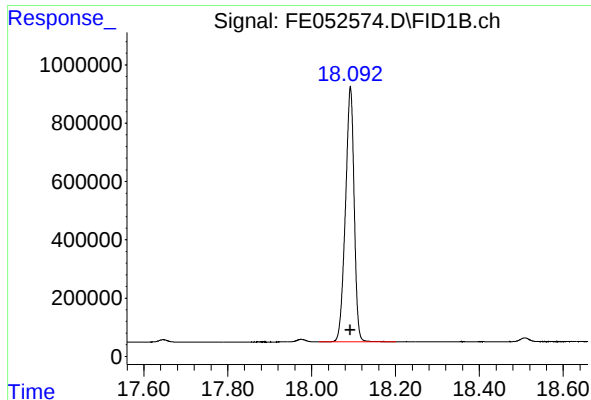
#15 n-Hexacosane (C26)

R.T.: 16.249 min
Delta R.T.: 0.000 min
Response: 12617268
Conc: 93.06 ug/ml



#16 n-Octacosane (C28)

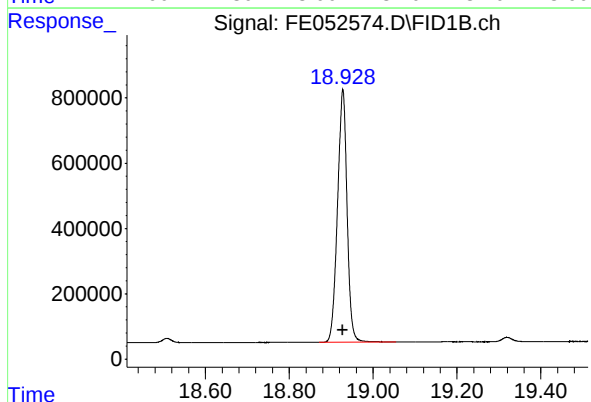
R.T.: 17.201 min
Delta R.T.: 0.000 min
Response: 12424646
Conc: 92.34 ug/ml



#17 n-Tricontane (C30)

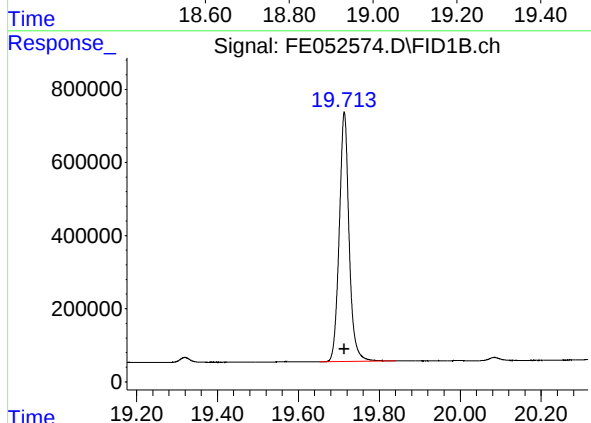
R.T.: 18.092 min
Delta R.T.: 0.000 min
Response: 12609210
Conc: 91.46 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



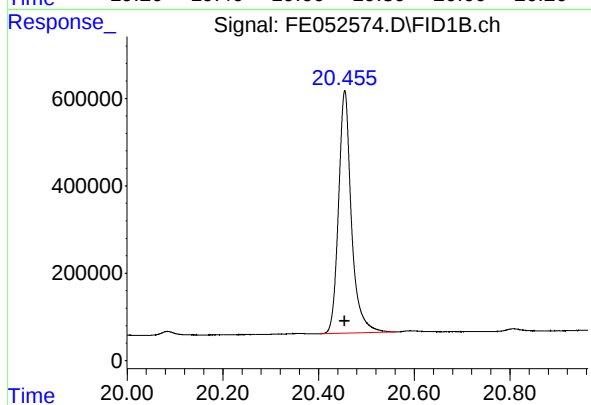
#18 n-Dotriacontane (C32)

R.T.: 18.928 min
Delta R.T.: 0.000 min
Response: 12252844
Conc: 90.80 ug/ml



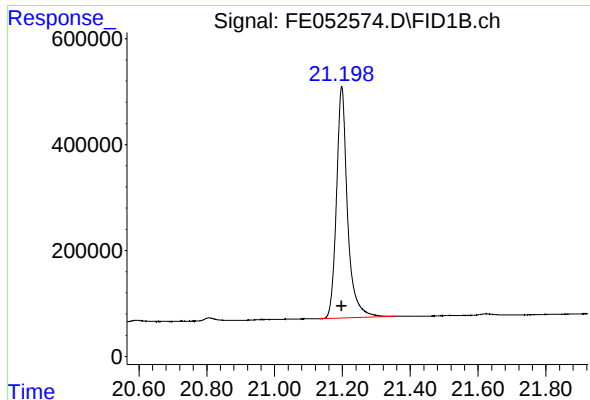
#19 n-Tetratriacontane (C34)

R.T.: 19.714 min
Delta R.T.: 0.000 min
Response: 11540152
Conc: 91.30 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.455 min
Delta R.T.: 0.000 min
Response: 10354123
Conc: 91.81 ug/ml



#21 n-Octatriacontane (C38)

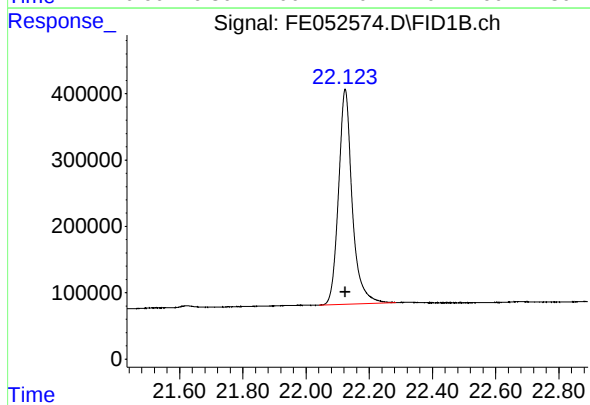
R.T.: 21.198 min
Delta R.T.: 0.000 min
Response: 9888606
Conc: 92.81 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.124 min
Delta R.T.: 0.000 min
Response: 9729801
Conc: 93.47 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052574.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 11:03
 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 030325.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	3.257	3.218	3.341	BB	1376737	14069581	90.68%	4.963%
2	4.520	4.481	4.604	BB	1385573	14244956	91.81%	5.025%
3	6.234	6.194	6.331	BB	1543497	15515805	100.00%	5.473%
4	6.701	6.648	6.764	BB	1337401	14127596	91.05%	4.983%
5	7.337	7.291	7.451	PB	1429684	14872839	95.86%	5.246%
6	8.538	8.468	8.601	BB	1246041	13725919	88.46%	4.842%
7	10.153	10.111	10.221	BB	1228361	13854362	89.29%	4.887%
8	11.603	11.564	11.671	BB	1158280	13752507	88.64%	4.851%
9	11.921	11.858	11.991	BB	1294746	15249190	98.28%	5.379%
10	12.917	12.831	12.988	BB	1073457	13115140	84.53%	4.626%
11	13.362	13.311	13.488	BB	878519	11123183	71.69%	3.923%
12	13.531	13.491	13.604	BB	1034118	12870691	82.95%	4.540%
13	14.119	14.041	14.184	BB	1007279	12800111	82.50%	4.515%
14	15.226	15.141	15.301	BB	971384	12766560	82.28%	4.503%
15	16.249	16.158	16.331	BB	889127	12617268	81.32%	4.450%
16	17.201	17.124	17.308	BB	895534	12424646	80.08%	4.383%
17	18.092	18.018	18.201	VB	871317	12609210	81.27%	4.448%
18	18.928	18.871	19.054	BB	775818	12252844	78.97%	4.322%
19	19.714	19.651	19.841	BV	682323	11540152	74.38%	4.071%
20	20.455	20.401	20.562	BV	555199	10354123	66.73%	3.652%
21	21.198	21.131	21.358	BB	437475	9888606	63.73%	3.488%
22	22.124	22.041	22.284	BV	324105	9729801	62.71%	3.432%
Sum of corrected areas:						283505085		

Aliphatic EPH 030325.M Tue Mar 04 04:13:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052575.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 11:34
 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: Mar 03 12:40:59 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 12:40:45 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.915	7890446	48.995 ug/ml
Spiked Amount 50.000		Recovery =	97.99%
12) S 1-chlorooctadecane (S...	13.358	5721300	49.036 ug/ml
Spiked Amount 50.000		Recovery =	98.07%
Target Compounds			
1) T n-Nonane (C9)	3.254	7262625	48.981 ug/ml
2) T n-Decane (C10)	4.517	7350604	48.938 ug/ml
3) T A~Naphthalene (C11.7)	6.230	8003588	49.026 ug/ml
4) T n-Dodecane (C12)	6.698	7295684	48.957 ug/ml
5) T A~2-methylnaphthalene...	7.333	7667442	49.056 ug/ml
6) T n-Tetradecane (C14)	8.535	7087970	48.937 ug/ml
7) T n-Hexadecane (C16)	10.150	7163759	48.973 ug/ml
8) T n-Octadecane (C18)	11.599	7114585	48.985 ug/ml
10) T n-Eicosane (C20)	12.913	6790047	49.002 ug/ml
11) T n-Heneicosane (C21)	13.527	6654465	48.971 ug/ml
13) T n-Docosane (C22)	14.115	6651959	49.037 ug/ml
14) T n-Tetracosane (C24)	15.221	6697431	49.266 ug/ml
15) T n-Hexacosane (C26)	16.246	6641490	49.320 ug/ml
16) T n-Octacosane (C28)	17.198	6557098	49.148 ug/ml
17) T n-Tricontane (C30)	18.088	6637939	48.751 ug/ml
18) T n-Dotriacontane (C32)	18.923	6417064	48.341 ug/ml
19) T n-Tetratriacontane (C34)	19.709	5988221	48.220 ug/ml
20) T n-Hexatriacontane (C36)	20.451	5353171	48.282 ug/ml
21) T n-Octatriacontane (C38)	21.193	5101404	48.566 ug/ml
22) T n-Tetracontane (C40)	22.116	5019598	48.800 ug/ml

(f)=RT Delta > 1/2 Window

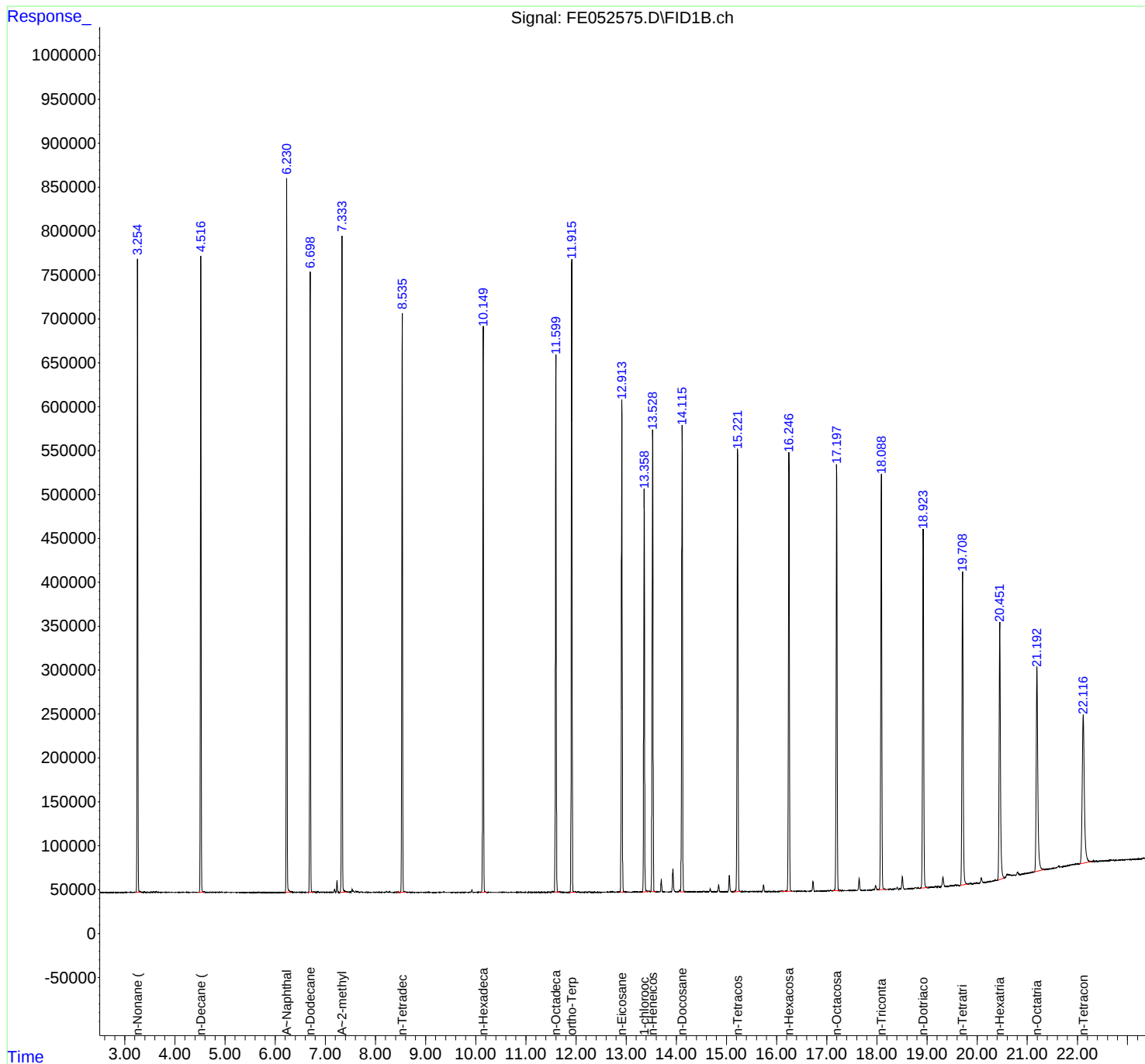
(m)=manual int.

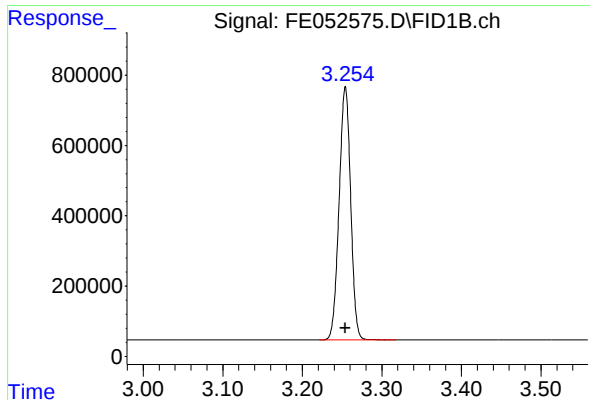
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052575.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:34
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Mar 03 12:40:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:40:45 2025
Response via : Initial Calibration
Integrator: ChemStation

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

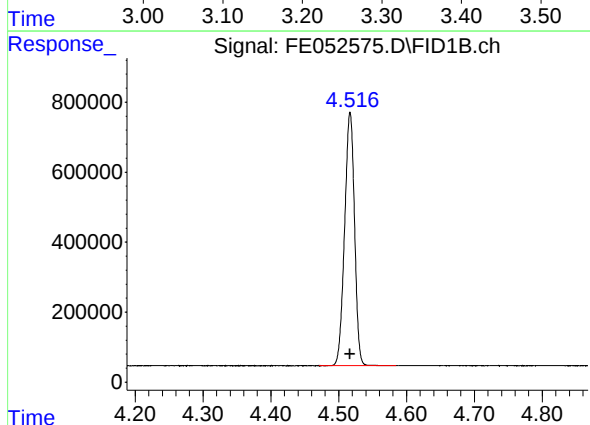




#1 n-Nonane (C9)

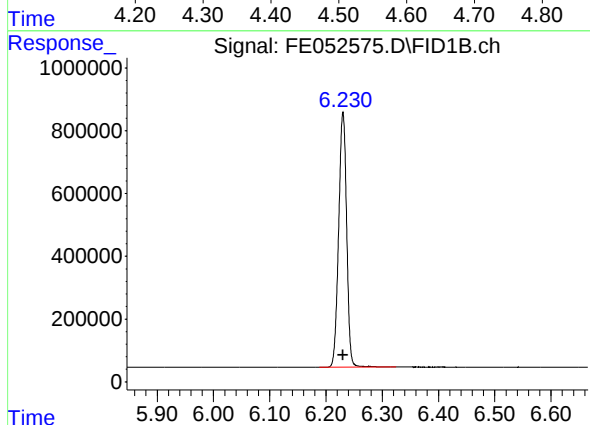
R.T.: 3.254 min
Delta R.T.: 0.000 min
Response: 7262625
Conc: 48.98 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



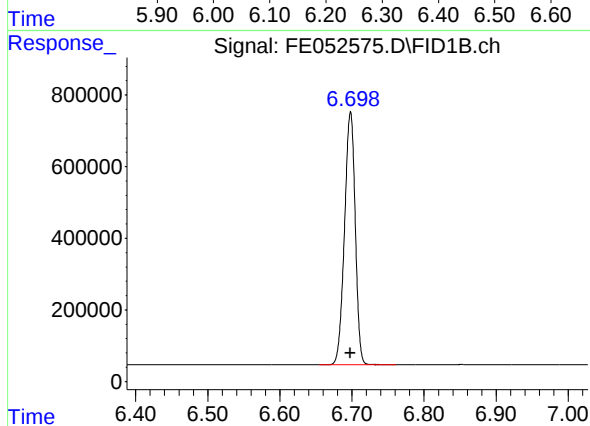
#2 n-Decane (C10)

R.T.: 4.517 min
Delta R.T.: 0.000 min
Response: 7350604
Conc: 48.94 ug/ml



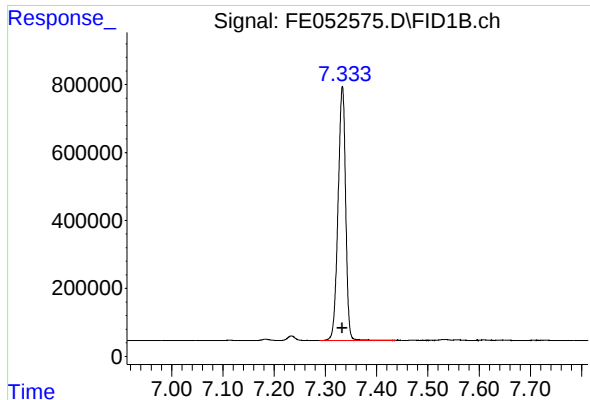
#3 A~Naphthalene (C11.7)

R.T.: 6.230 min
Delta R.T.: 0.000 min
Response: 8003588
Conc: 49.03 ug/ml



#4 n-Dodecane (C12)

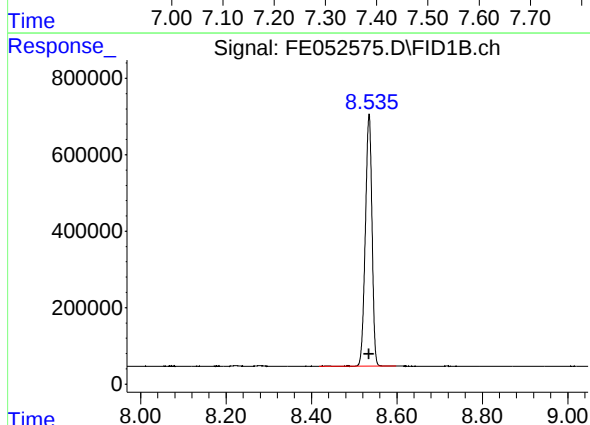
R.T.: 6.698 min
Delta R.T.: 0.000 min
Response: 7295684
Conc: 48.96 ug/ml



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

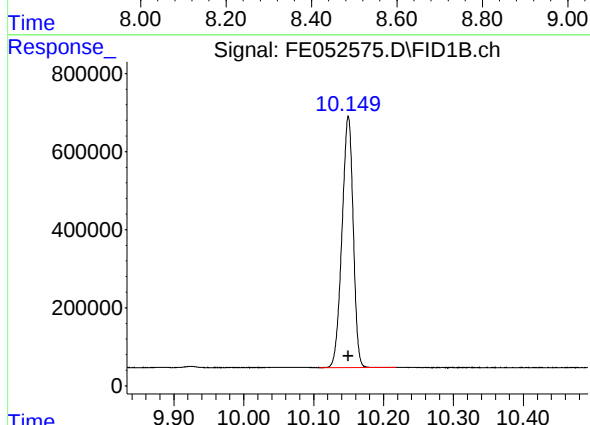
R.T.: 7.333 min
Delta R.T.: 0.000 min
Response: 7667442
Conc: 49.06 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



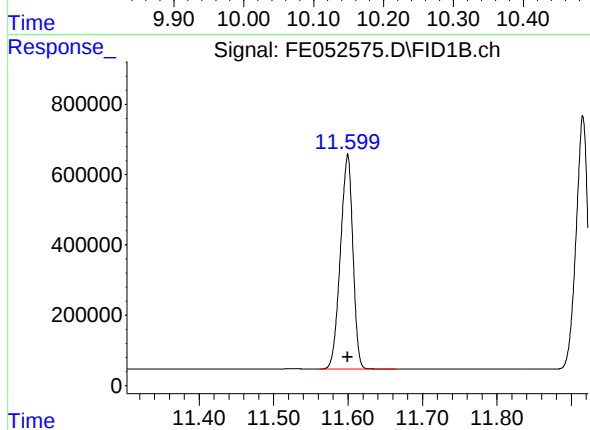
#6 n-Tetradecane (C14)

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 7087970
Conc: 48.94 ug/ml



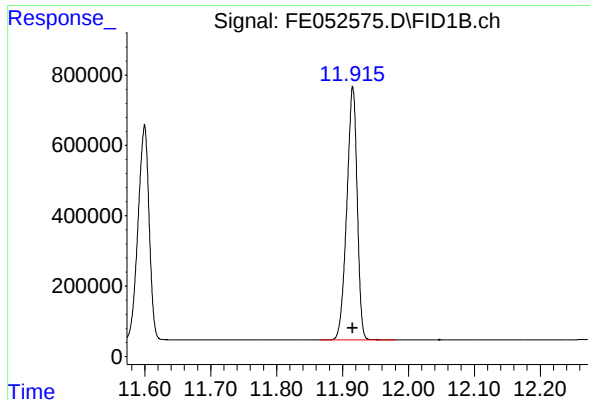
#7 n-Hexadecane (C16)

R.T.: 10.150 min
Delta R.T.: 0.000 min
Response: 7163759
Conc: 48.97 ug/ml



#8 n-Octadecane (C18)

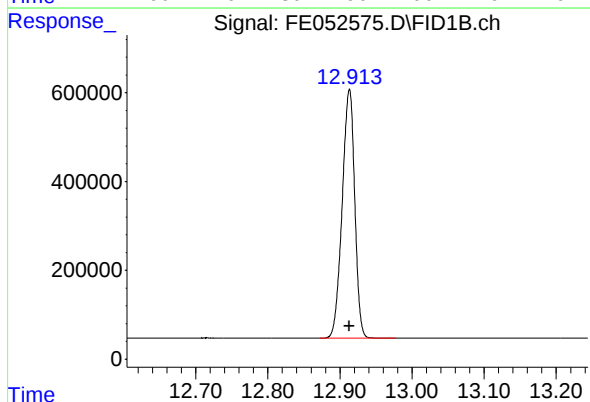
R.T.: 11.599 min
Delta R.T.: 0.000 min
Response: 7114585
Conc: 48.99 ug/ml



#9 ortho-Terphenyl (SURR)

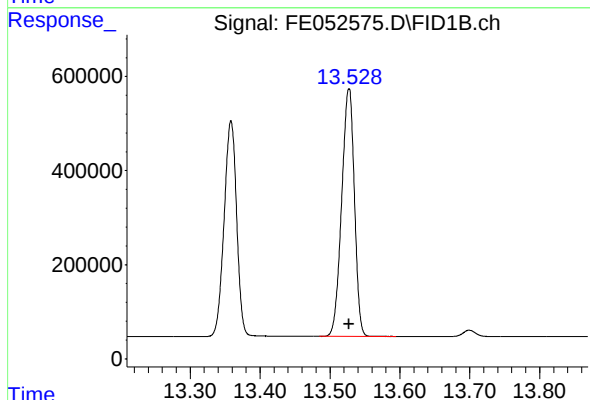
R.T.: 11.915 min
Delta R.T.: 0.000 min
Response: 7890446
Conc: 49.00 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



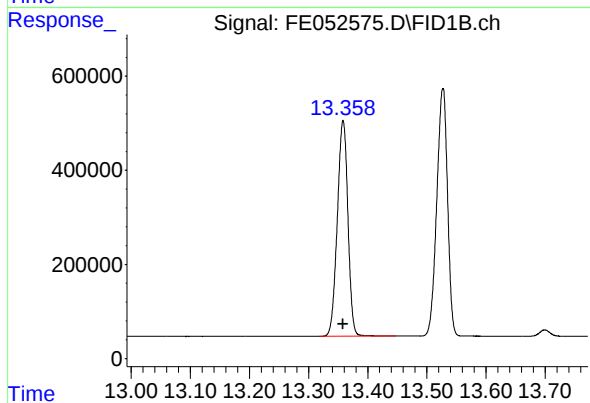
#10 n-Eicosane (C20)

R.T.: 12.913 min
Delta R.T.: 0.000 min
Response: 6790047
Conc: 49.00 ug/ml



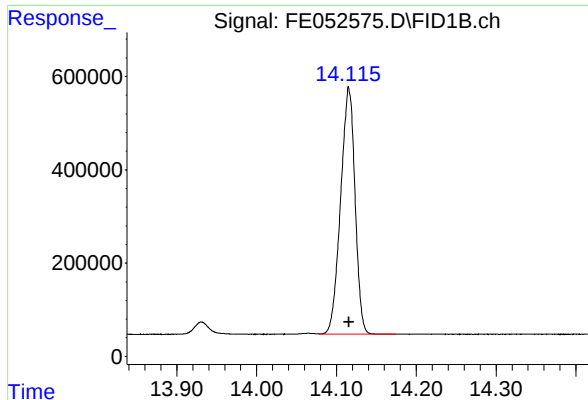
#11 n-Heneicosane (C21)

R.T.: 13.527 min
Delta R.T.: 0.000 min
Response: 6654465
Conc: 48.97 ug/ml



#12 1-chlorooctadecane (SURR)

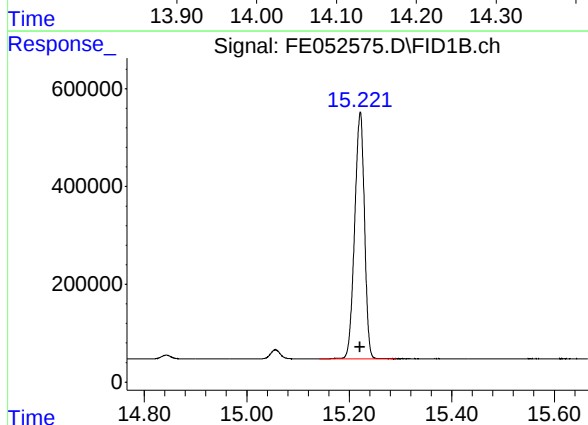
R.T.: 13.358 min
Delta R.T.: 0.000 min
Response: 5721300
Conc: 49.04 ug/ml



#13 n-Docosane (C22)

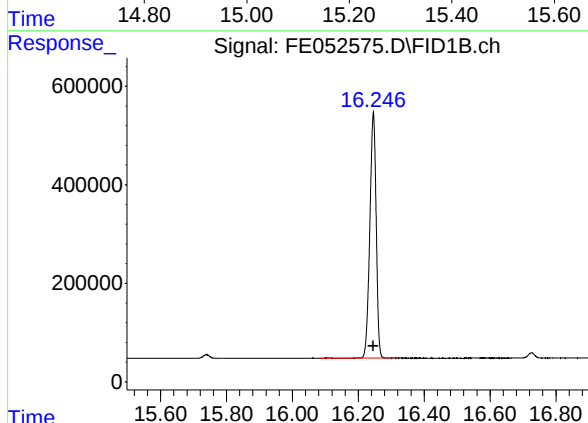
R.T.: 14.115 min
Delta R.T.: 0.000 min
Response: 6651959
Conc: 49.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



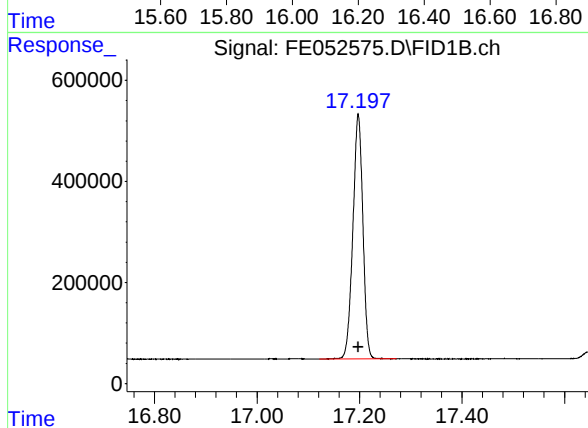
#14 n-Tetracosane (C24)

R.T.: 15.221 min
Delta R.T.: 0.000 min
Response: 6697431
Conc: 49.27 ug/ml



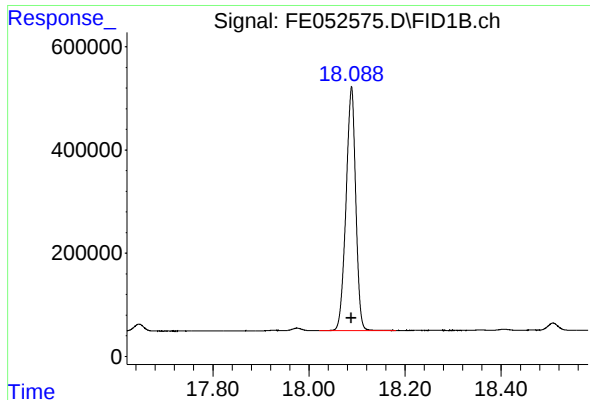
#15 n-Hexacosane (C26)

R.T.: 16.246 min
Delta R.T.: 0.000 min
Response: 6641490
Conc: 49.32 ug/ml



#16 n-Octacosane (C28)

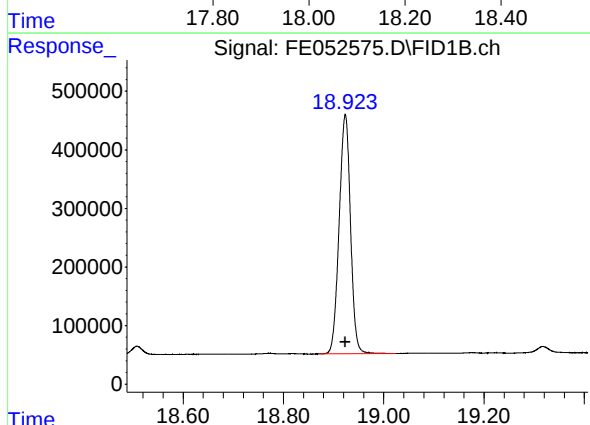
R.T.: 17.198 min
Delta R.T.: 0.000 min
Response: 6557098
Conc: 49.15 ug/ml



#17 n-Tricontane (C30)

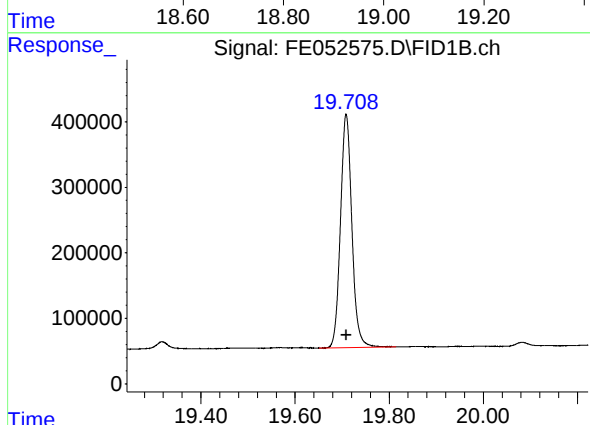
R.T.: 18.088 min
Delta R.T.: 0.000 min
Response: 6637939
Conc: 48.75 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



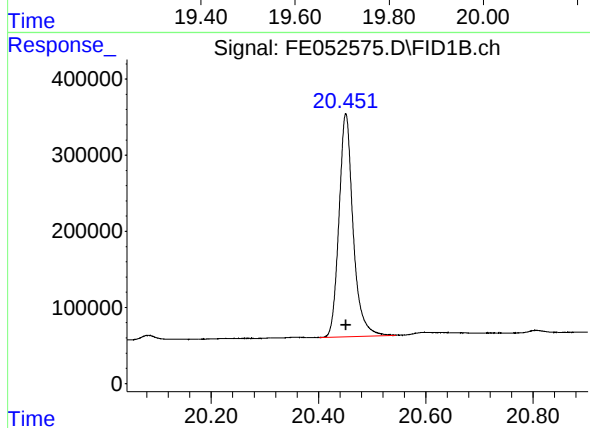
#18 n-Dotriacontane (C32)

R.T.: 18.923 min
Delta R.T.: 0.000 min
Response: 6417064
Conc: 48.34 ug/ml



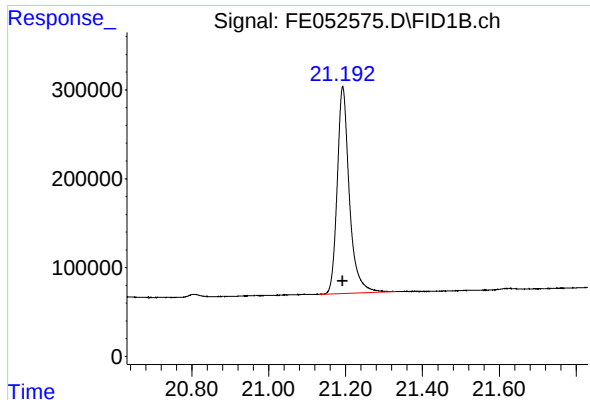
#19 n-Tetratriacontane (C34)

R.T.: 19.709 min
Delta R.T.: 0.000 min
Response: 5988221
Conc: 48.22 ug/ml



#20 n-Hexatriacontane (C36)

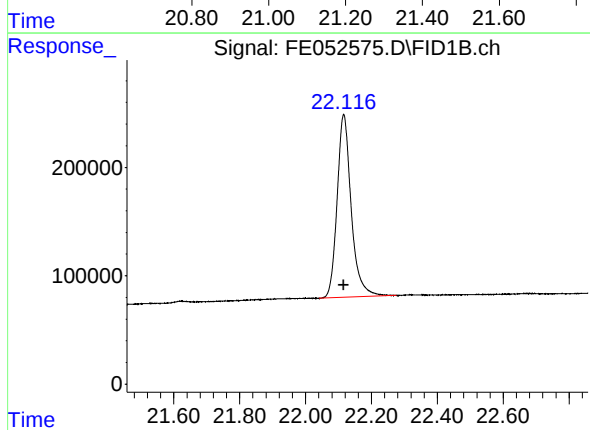
R.T.: 20.451 min
Delta R.T.: 0.000 min
Response: 5353171
Conc: 48.28 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.193 min
Delta R.T.: 0.000 min
Response: 5101404
Conc: 48.57 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.116 min
Delta R.T.: 0.000 min
Response: 5019598
Conc: 48.80 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052575.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 11:34
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 030325.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	3.318	BB	720805	7262625	90.74%	4.938%
2	4.517	4.471	4.584	BB	725655	7350604	91.84%	4.998%
3	6.230	6.188	6.324	BB	812229	8003588	100.00%	5.442%
4	6.698	6.654	6.761	BB	705384	7295684	91.16%	4.961%
5	7.333	7.288	7.438	PB	756176	7667442	95.80%	5.214%
6	8.535	8.418	8.598	BB	657816	7087970	88.56%	4.820%
7	10.150	10.108	10.218	BB	647411	7163759	89.51%	4.871%
8	11.599	11.561	11.664	BB	599043	7114585	88.89%	4.838%
9	11.915	11.864	11.981	BB	717321	7890446	98.59%	5.365%
10	12.913	12.871	12.978	BB	565753	6790047	84.84%	4.617%
11	13.358	13.318	13.448	BB	458678	5721300	71.48%	3.890%
12	13.527	13.484	13.594	BB	530789	6654465	83.14%	4.525%
13	14.115	14.078	14.174	VB	526625	6651959	83.11%	4.523%
14	15.221	15.141	15.291	BB	504373	6697431	83.68%	4.554%
15	16.246	16.081	16.314	BB	495717	6641490	82.98%	4.516%
16	17.198	17.121	17.271	BB	483594	6557098	81.93%	4.459%
17	18.088	18.021	18.181	BB	469897	6637939	82.94%	4.514%
18	18.923	18.871	19.024	BB	409189	6417064	80.18%	4.363%
19	19.709	19.651	19.814	BB	357009	5988221	74.82%	4.072%
20	20.451	20.401	20.544	BV	293191	5353171	66.88%	3.640%
21	21.193	21.131	21.331	BB	232996	5101404	63.74%	3.469%
22	22.116	22.041	22.274	BV	168917	5019598	62.72%	3.413%
Sum of corrected areas:						147067888		

Aliphatic EPH 030325.M Tue Mar 04 04:14:28 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052576.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 12:04
 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: Mar 03 12:32:58 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 12:32:42 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.910	3456693	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.355	2487317	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.253	3177459	20.000 ug/ml
2) T n-Decane (C10)	4.514	3222867	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.228	3490467	20.000 ug/ml
4) T n-Dodecane (C12)	6.696	3197479	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.330	3336499	20.000 ug/ml
6) T n-Tetradecane (C14)	8.531	3109866	20.000 ug/ml
7) T n-Hexadecane (C16)	10.146	3140454	20.000 ug/ml
8) T n-Octadecane (C18)	11.595	3118030	20.000 ug/ml
10) T n-Eicosane (C20)	12.909	2974997	20.000 ug/ml
11) T n-Heneicosane (C21)	13.523	2917184	20.000 ug/ml
13) T n-Docosane (C22)	14.111	2918322	20.000 ug/ml
14) T n-Tetracosane (C24)	15.217	2924292	20.000 ug/ml
15) T n-Hexacosane (C26)	16.242	2899563	20.000 ug/ml
16) T n-Octacosane (C28)	17.194	2897161	20.000 ug/ml
17) T n-Tricontane (C30)	18.085	2992644	20.000 ug/ml
18) T n-Dotriacontane (C32)	18.920	2947304	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.706	2747820	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.448	2440276	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.189	2284145	20.000 ug/ml
22) T n-Tetracontane (C40)	22.109	2217832	20.000 ug/ml

(f)=RT Delta > 1/2 Window

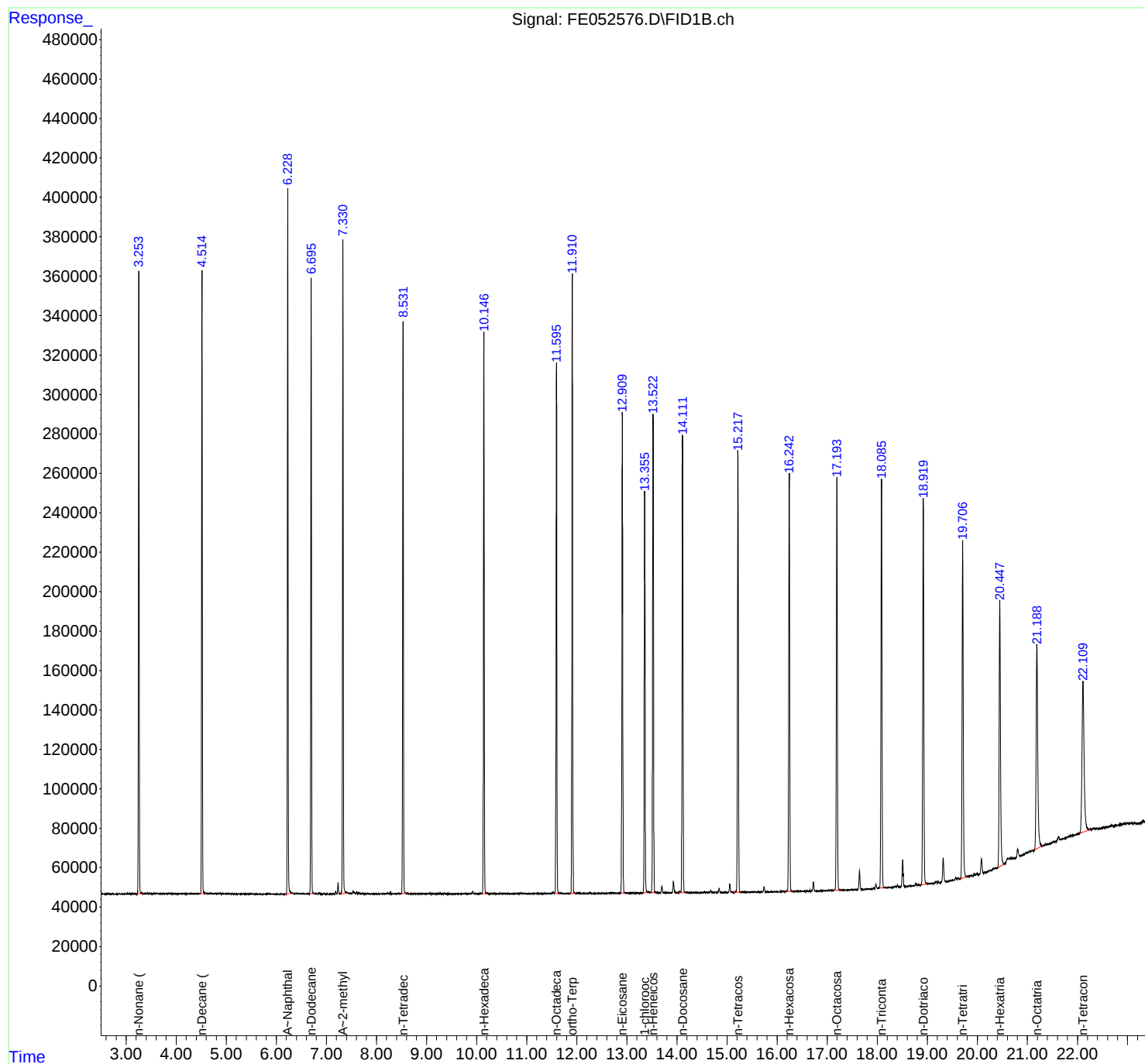
(m)=manual int.

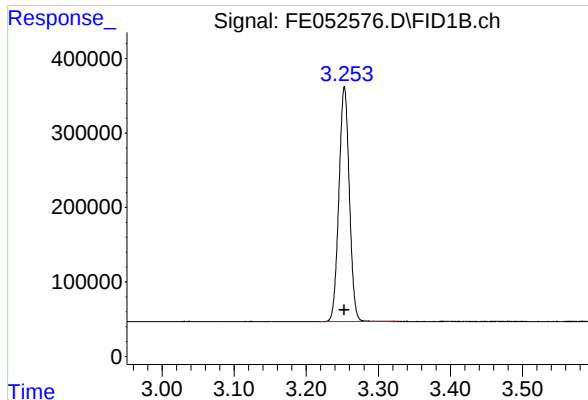
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052576.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:04
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Mar 03 12:32:58 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:32:42 2025
Response via : Initial Calibration
Integrator: ChemStation

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

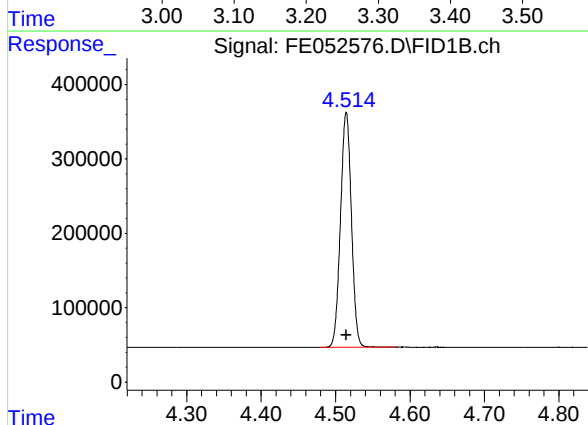




#1 n-Nonane (C9)

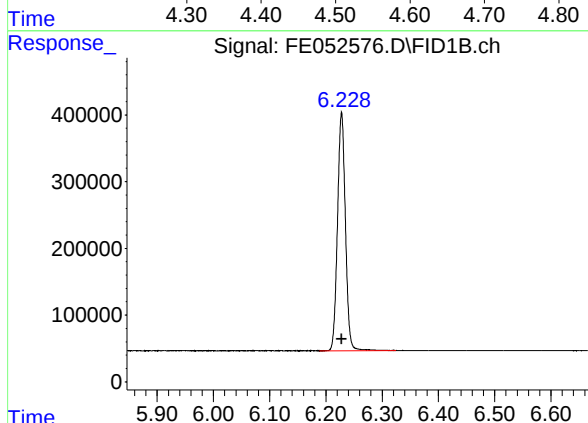
R.T.: 3.253 min
Delta R.T.: 0.000 min
Response: 3177459
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



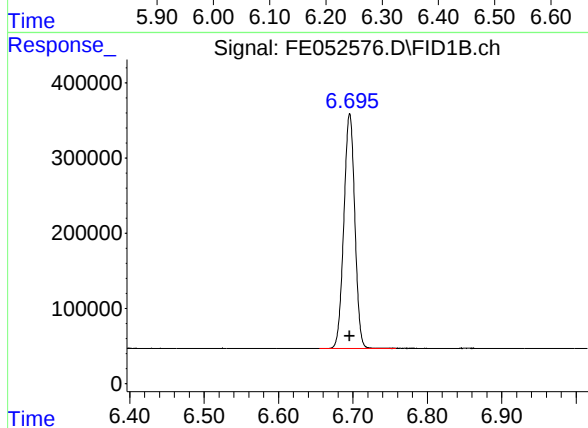
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 3222867
Conc: 20.00 ug/ml



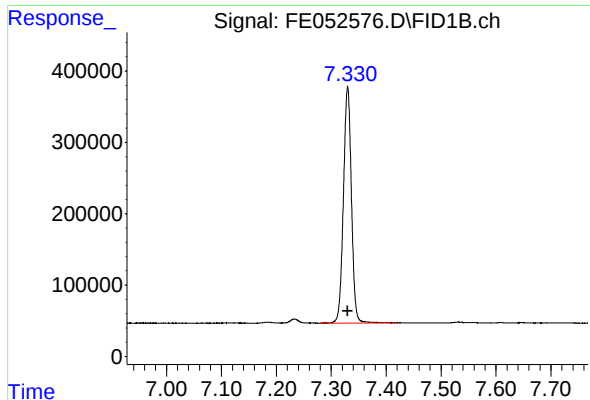
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 3490467
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

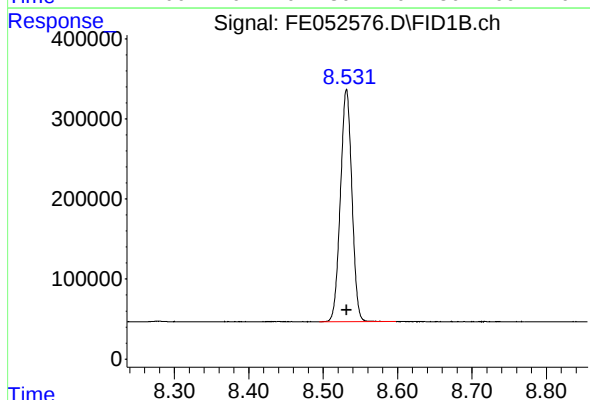
R.T.: 6.696 min
Delta R.T.: 0.000 min
Response: 3197479
Conc: 20.00 ug/ml



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

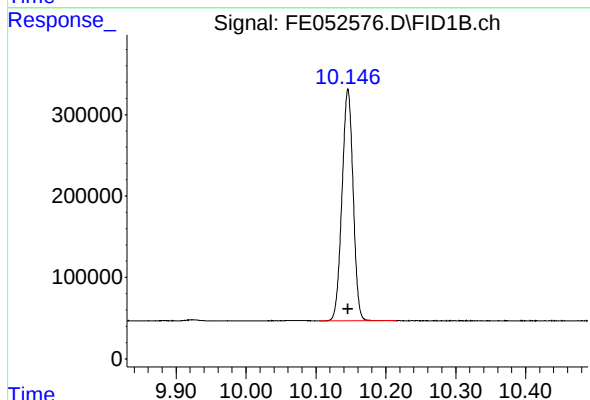
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 3336499
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



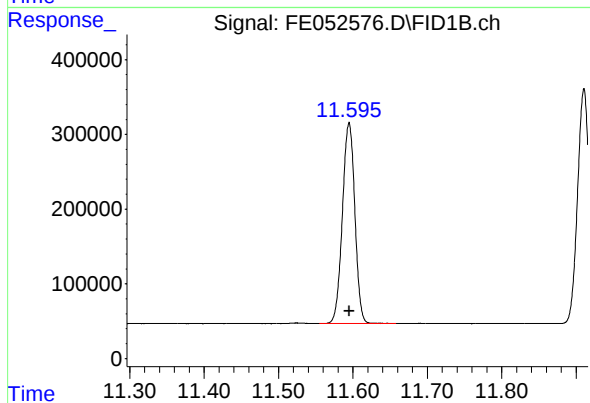
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 3109866
Conc: 20.00 ug/ml



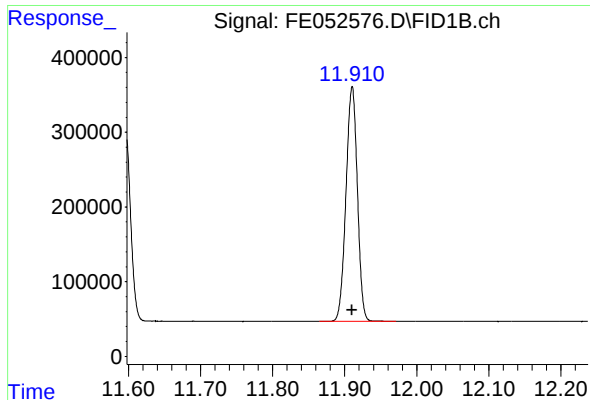
#7 n-Hexadecane (C16)

R.T.: 10.146 min
Delta R.T.: 0.000 min
Response: 3140454
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

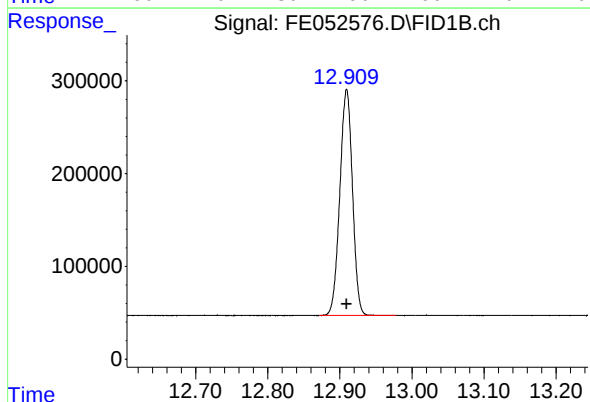
R.T.: 11.595 min
Delta R.T.: 0.000 min
Response: 3118030
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

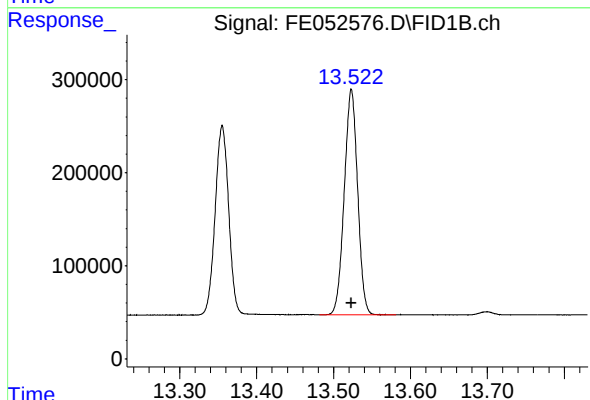
R.T.: 11.910 min
Delta R.T.: 0.000 min
Response: 3456693
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



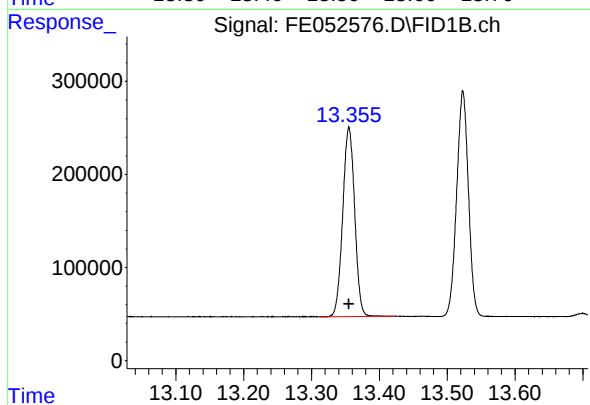
#10 n-Eicosane (C20)

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 2974997
Conc: 20.00 ug/ml



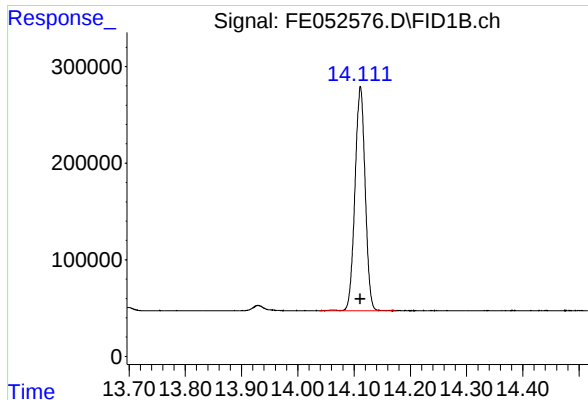
#11 n-Heneicosane (C21)

R.T.: 13.523 min
Delta R.T.: 0.000 min
Response: 2917184
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

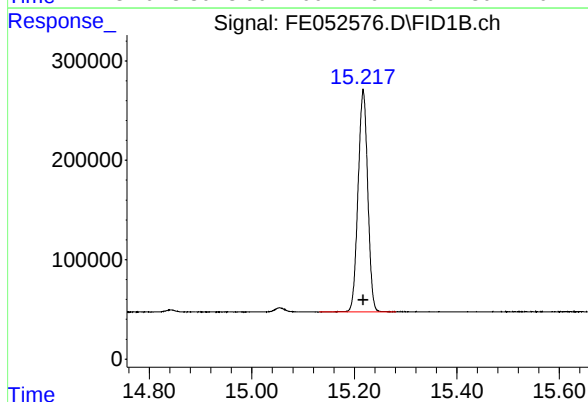
R.T.: 13.355 min
Delta R.T.: 0.000 min
Response: 2487317
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

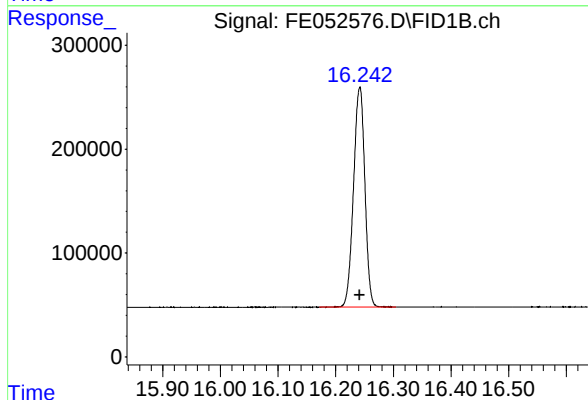
R.T.: 14.111 min
Delta R.T.: 0.000 min
Response: 2918322
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



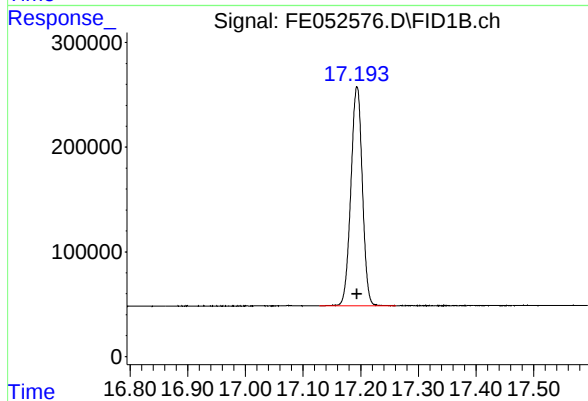
#14 n-Tetracosane (C24)

R.T.: 15.217 min
Delta R.T.: 0.000 min
Response: 2924292
Conc: 20.00 ug/ml



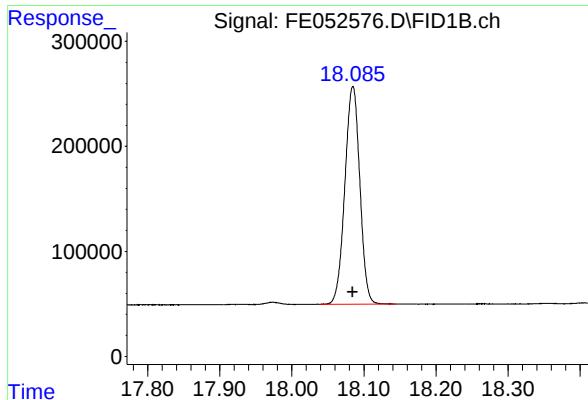
#15 n-Hexacosane (C26)

R.T.: 16.242 min
Delta R.T.: 0.000 min
Response: 2899563
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

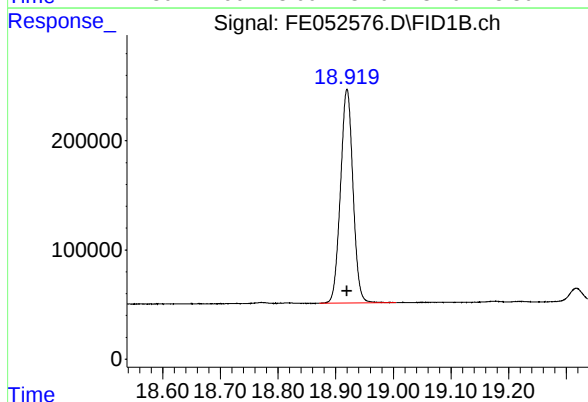
R.T.: 17.194 min
Delta R.T.: 0.000 min
Response: 2897161
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

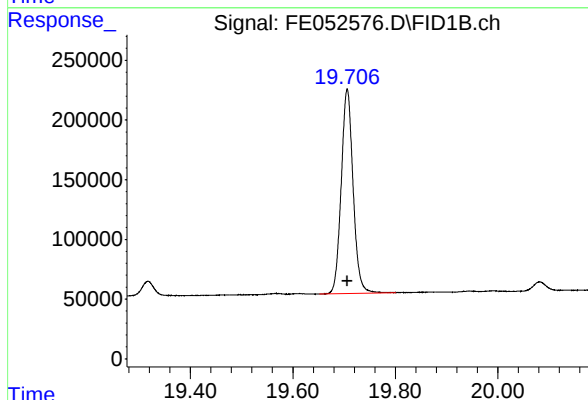
R.T.: 18.085 min
Delta R.T.: 0.000 min
Response: 2992644
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



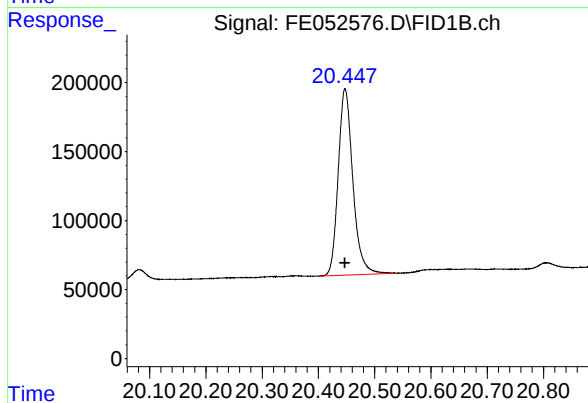
#18 n-Dotriacontane (C32)

R.T.: 18.920 min
Delta R.T.: 0.000 min
Response: 2947304
Conc: 20.00 ug/ml



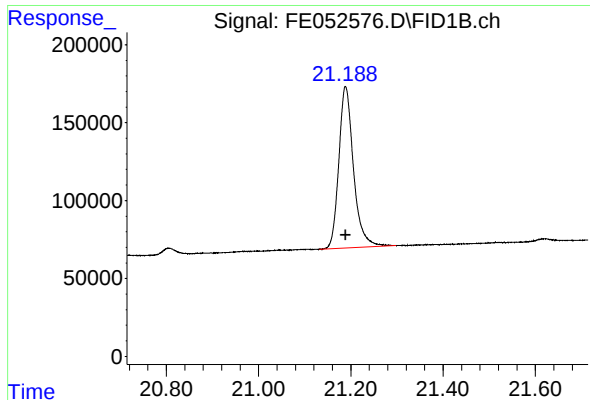
#19 n-Tetatriacontane (C34)

R.T.: 19.706 min
Delta R.T.: 0.000 min
Response: 2747820
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

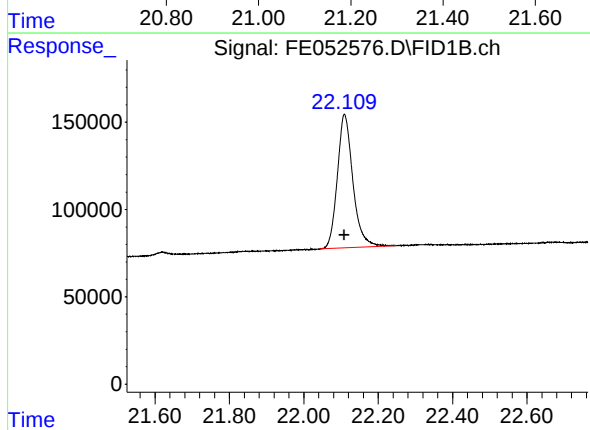
R.T.: 20.448 min
Delta R.T.: 0.000 min
Response: 2440276
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.189 min
Delta R.T.: 0.000 min
Response: 2284145
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.109 min
Delta R.T.: 0.000 min
Response: 2217832
Conc: 20.00 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052576.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 12:04
 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 030325.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	3.325	BB	314137	3177459	91.03%	4.896%
2	4.514	4.478	4.581	BB	315822	3222867	92.33%	4.966%
3	6.228	6.188	6.325	BB	355761	3490467	100.00%	5.378%
4	6.696	6.655	6.758	BB	311337	3197479	91.61%	4.927%
5	7.330	7.278	7.418	BB	331214	3336499	95.59%	5.141%
6	8.531	8.495	8.598	BB	289879	3109866	89.10%	4.792%
7	10.146	10.105	10.215	BB	282742	3140454	89.97%	4.839%
8	11.595	11.555	11.658	BB	268071	3118030	89.33%	4.804%
9	11.910	11.865	11.971	BB	315131	3456693	99.03%	5.326%
10	12.909	12.871	12.978	BB	241865	2974997	85.23%	4.584%
11	13.355	13.311	13.425	BB	202368	2487317	71.26%	3.833%
12	13.523	13.481	13.581	BB	241268	2917184	83.58%	4.495%
13	14.111	14.038	14.175	BB	232061	2918322	83.61%	4.497%
14	15.217	15.131	15.281	BB	222983	2924292	83.78%	4.506%
15	16.242	16.171	16.305	BB	211679	2899563	83.07%	4.468%
16	17.194	17.128	17.261	BB	210130	2897161	83.00%	4.464%
17	18.085	18.038	18.145	BB	207605	2992644	85.74%	4.611%
18	18.920	18.871	19.005	BB	195997	2947304	84.44%	4.541%
19	19.706	19.651	19.801	BB	170743	2747820	78.72%	4.234%
20	20.448	20.401	20.538	BV	134980	2440276	69.91%	3.760%
21	21.189	21.131	21.298	BB	103725	2284145	65.44%	3.520%
22	22.109	22.041	22.248	BB	76593	2217832	63.54%	3.417%
Sum of corrected areas:							64898671	

Aliphatic EPH 030325.M Tue Mar 04 04:15:00 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052577.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 12:34
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Mar 03 12:57:53 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 12:57:44 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.909	1779109	10.765 ug/ml
Spiked Amount 50.000		Recovery =	21.53%
12) S 1-chlorooctadecane (S...	13.354	1275538	10.683 ug/ml
Spiked Amount 50.000		Recovery =	21.37%
Target Compounds			
1) T n-Nonane (C9)	3.253	1633896	10.746 ug/ml
2) T n-Decane (C10)	4.514	1652277	10.732 ug/ml
3) T A~Naphthalene (C11.7)	6.228	1784418	10.682 ug/ml
4) T n-Dodecane (C12)	6.695	1640160	10.736 ug/ml
5) T A~2-methylnaphthalene...	7.330	1702988	10.657 ug/ml
6) T n-Tetradecane (C14)	8.531	1594378	10.737 ug/ml
7) T n-Hexadecane (C16)	10.145	1610203	10.737 ug/ml
8) T n-Octadecane (C18)	11.594	1601994	10.753 ug/ml
10) T n-Eicosane (C20)	12.909	1536447	10.794 ug/ml
11) T n-Heneicosane (C21)	13.522	1502197	10.771 ug/ml
13) T n-Docosane (C22)	14.111	1511879	10.835 ug/ml
14) T n-Tetracosane (C24)	15.218	1545839	10.994 ug/ml
15) T n-Hexacosane (C26)	16.242	1542744	11.054 ug/ml
16) T n-Octacosane (C28)	17.194	1547735	11.154 ug/ml
17) T n-Tricontane (C30)	18.083	1607077	11.294 ug/ml
18) T n-Dotriacontane (C32)	18.918	1583504	11.380 ug/ml
19) T n-Tetratriacontane (C34)	19.705	1456233	11.241 ug/ml
20) T n-Hexatriacontane (C36)	20.447	1283640	11.138 ug/ml
21) T n-Octatriacontane (C38)	21.188	1168118	10.818 ug/ml
22) T n-Tetracontane (C40)	22.109	1142101	10.805 ug/ml

(f)=RT Delta > 1/2 Window

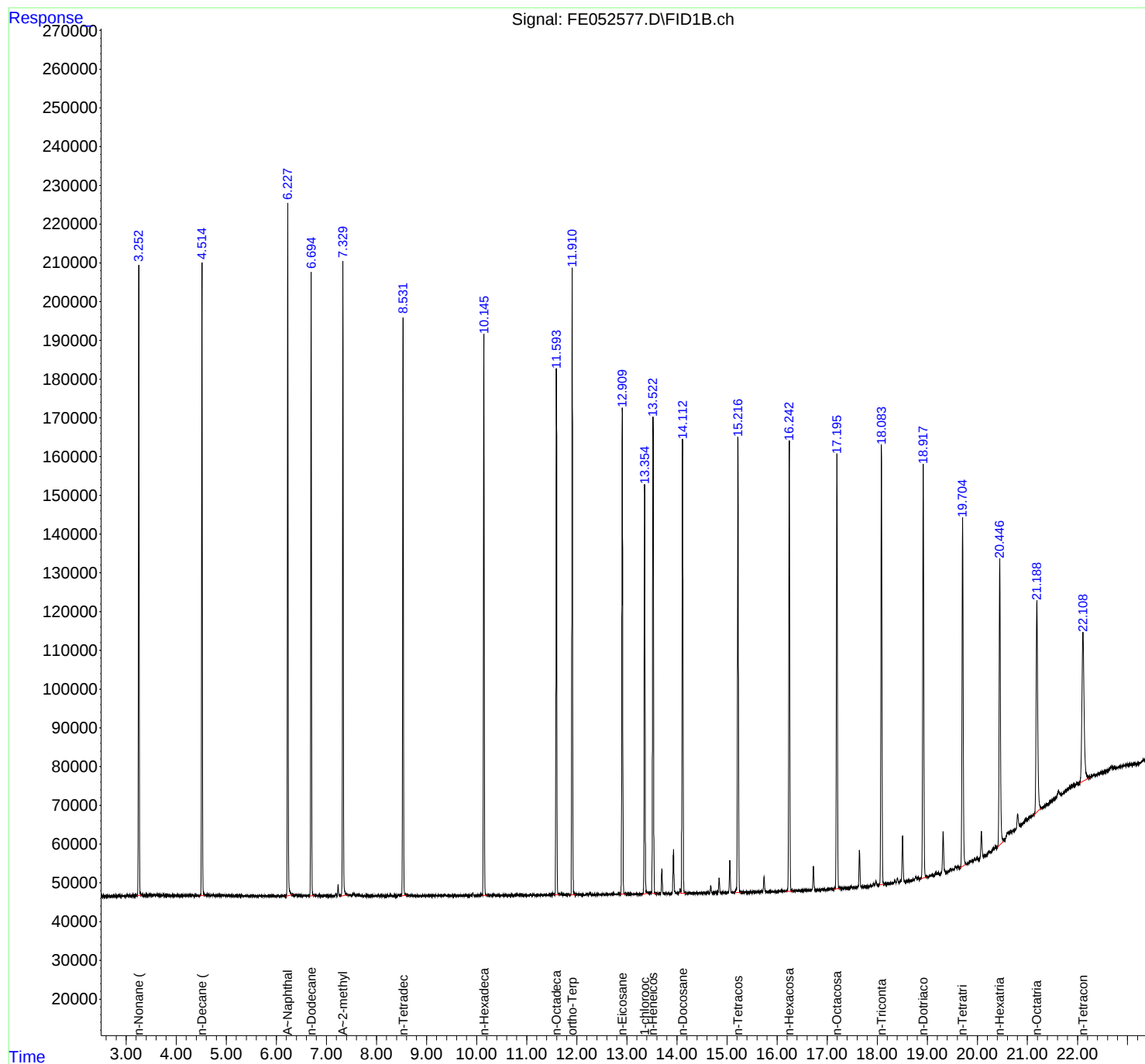
(m)=manual int.

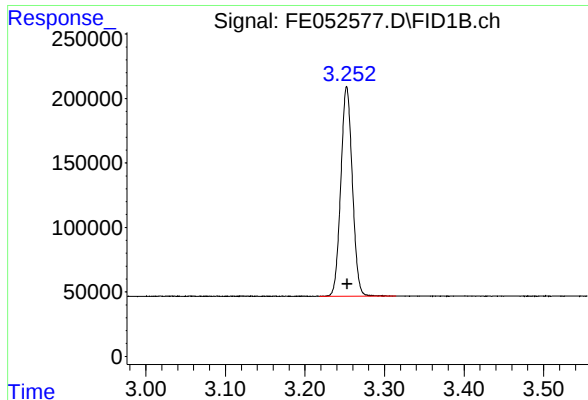
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052577.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:34
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Mar 03 12:57:53 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 12:57:44 2025
Response via : Initial Calibration
Integrator: ChemStation

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

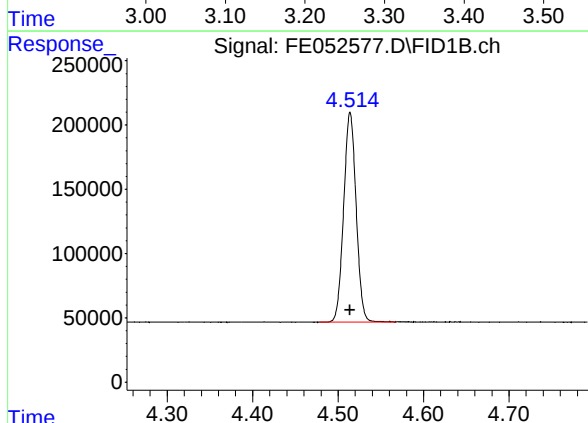




#1 n-Nonane (C9)

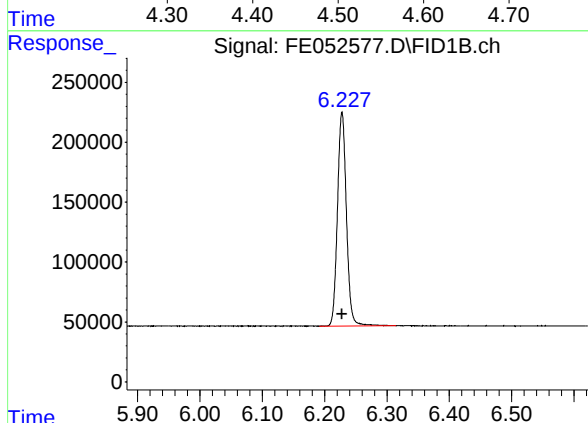
R.T.: 3.253 min
Delta R.T.: 0.000 min
Response: 1633896
Conc: 10.75 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



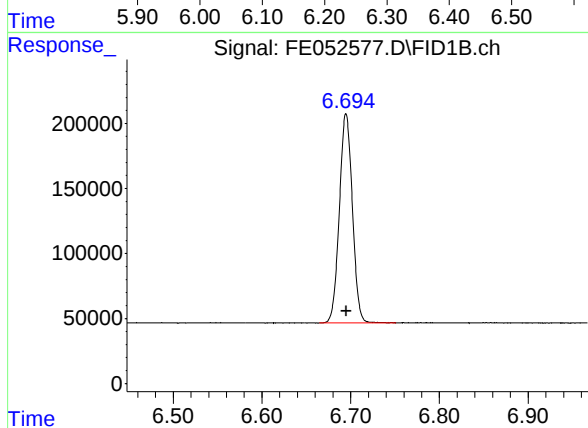
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 1652277
Conc: 10.73 ug/ml



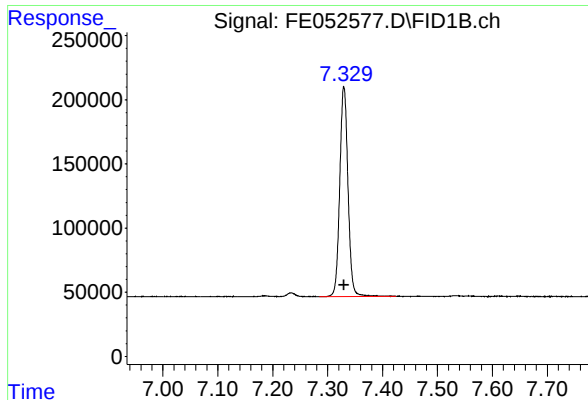
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 1784418
Conc: 10.68 ug/ml



#4 n-Dodecane (C12)

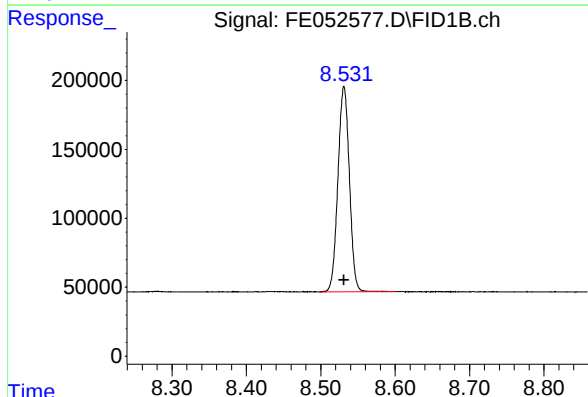
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 1640160
Conc: 10.74 ug/ml



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

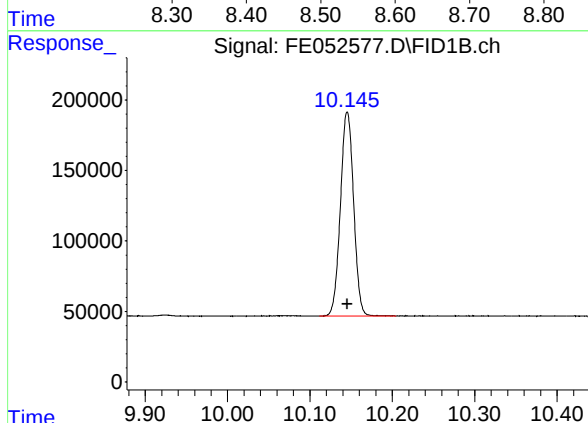
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 1702988
Conc: 10.66 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



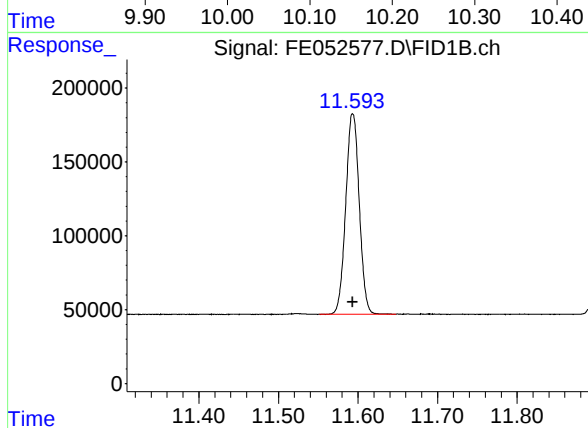
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 1594378
Conc: 10.74 ug/ml



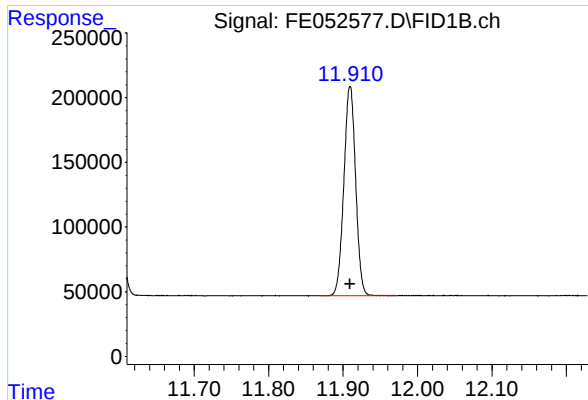
#7 n-Hexadecane (C16)

R.T.: 10.145 min
Delta R.T.: 0.000 min
Response: 1610203
Conc: 10.74 ug/ml



#8 n-Octadecane (C18)

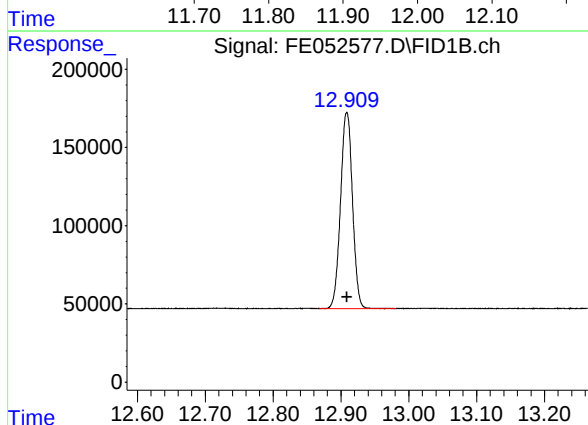
R.T.: 11.594 min
Delta R.T.: 0.000 min
Response: 1601994
Conc: 10.75 ug/ml



#9 ortho-Terphenyl (SURR)

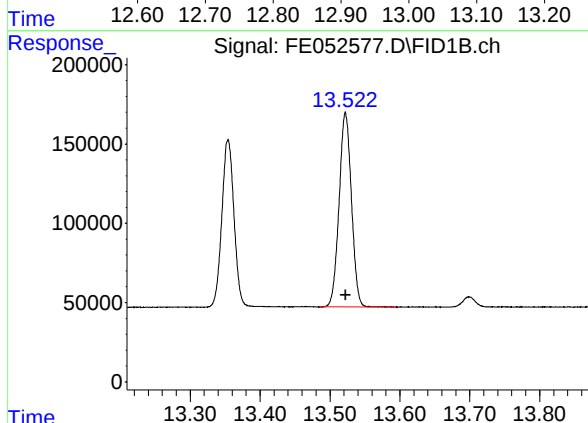
R.T.: 11.909 min
Delta R.T.: 0.000 min
Response: 1779109
Conc: 10.77 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



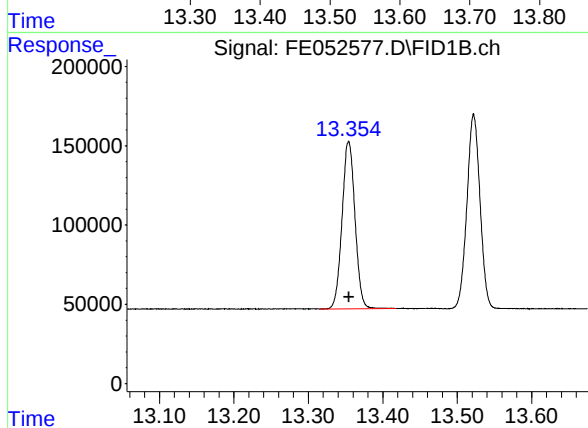
#10 n-Eicosane (C20)

R.T.: 12.909 min
Delta R.T.: 0.000 min
Response: 1536447
Conc: 10.79 ug/ml



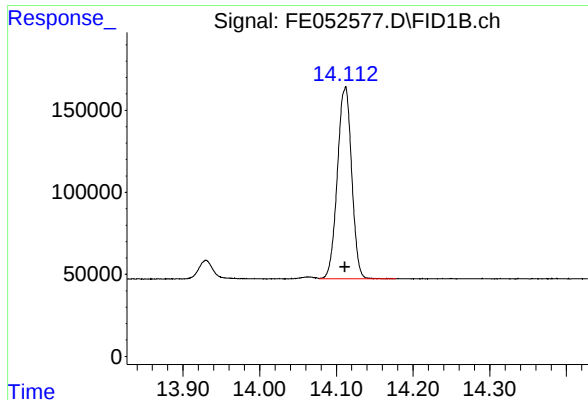
#11 n-Heneicosane (C21)

R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 1502197
Conc: 10.77 ug/ml



#12 1-chlorooctadecane (SURR)

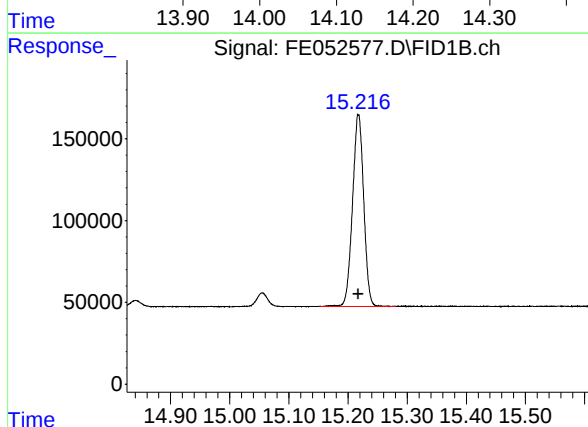
R.T.: 13.354 min
Delta R.T.: 0.000 min
Response: 1275538
Conc: 10.68 ug/ml



#13 n-Docosane (C22)

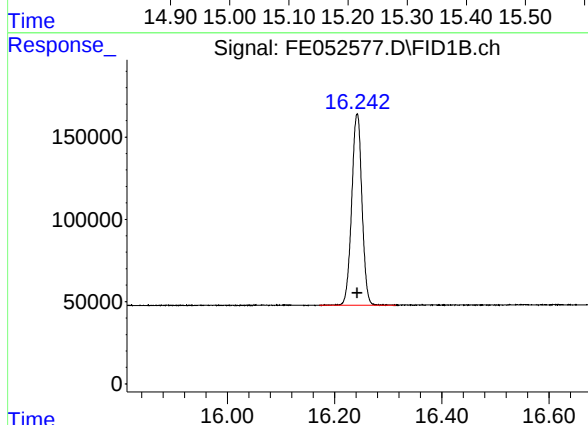
R.T.: 14.111 min
Delta R.T.: 0.000 min
Response: 1511879
Conc: 10.84 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



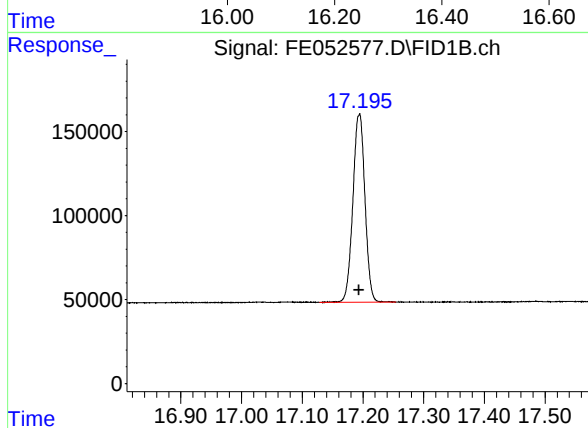
#14 n-Tetracosane (C24)

R.T.: 15.218 min
Delta R.T.: 0.000 min
Response: 1545839
Conc: 10.99 ug/ml



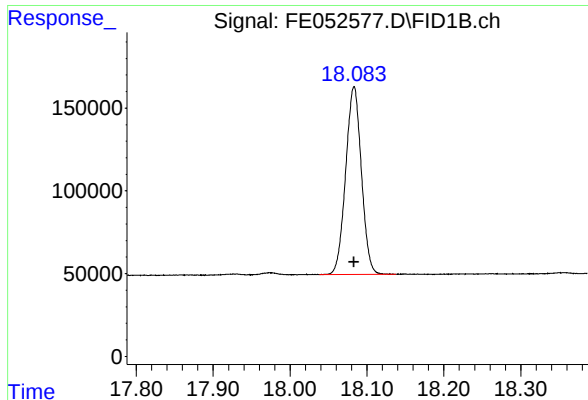
#15 n-Hexacosane (C26)

R.T.: 16.242 min
Delta R.T.: 0.000 min
Response: 1542744
Conc: 11.05 ug/ml



#16 n-Octacosane (C28)

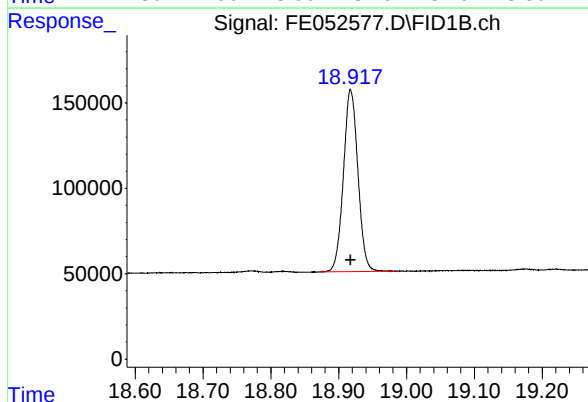
R.T.: 17.194 min
Delta R.T.: 0.000 min
Response: 1547735
Conc: 11.15 ug/ml



#17 n-Tricontane (C30)

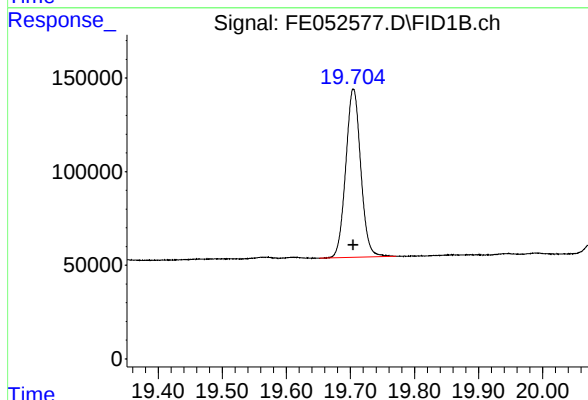
R.T.: 18.083 min
Delta R.T.: 0.000 min
Response: 1607077
Conc: 11.29 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



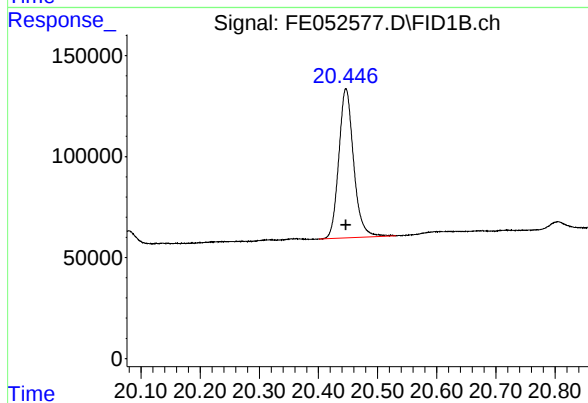
#18 n-Dotriacontane (C32)

R.T.: 18.918 min
Delta R.T.: 0.000 min
Response: 1583504
Conc: 11.38 ug/ml



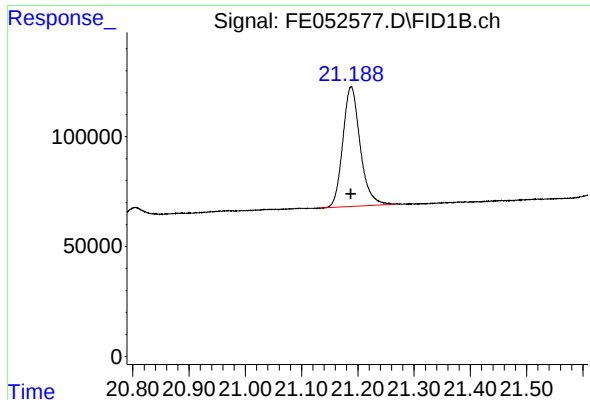
#19 n-Tetatriacontane (C34)

R.T.: 19.705 min
Delta R.T.: 0.000 min
Response: 1456233
Conc: 11.24 ug/ml



#20 n-Hexatriacontane (C36)

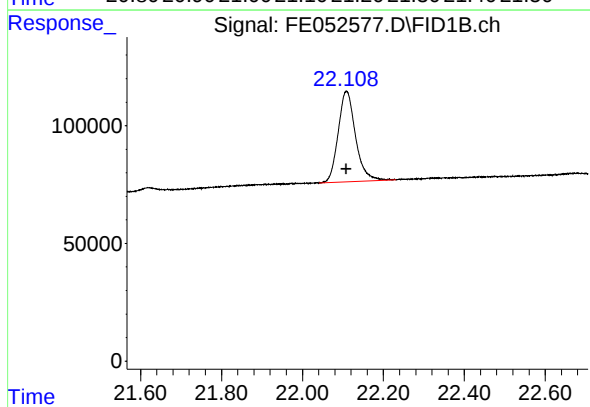
R.T.: 20.447 min
Delta R.T.: 0.000 min
Response: 1283640
Conc: 11.14 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.188 min
Delta R.T.: 0.000 min
Response: 1168118
Conc: 10.82 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.109 min
Delta R.T.: 0.000 min
Response: 1142101
Conc: 10.81 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052577.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 12:34
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.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	3.314	BB	161729	1633896	91.56%	4.848%
2	4.514	4.478	4.568	BB	162683	1652277	92.59%	4.903%
3	6.228	6.191	6.314	BB	178423	1784418	100.00%	5.295%
4	6.695	6.664	6.751	BB	160841	1640160	91.92%	4.867%
5	7.330	7.284	7.424	BB	162983	1702988	95.44%	5.053%
6	8.531	8.498	8.601	BB	148819	1594378	89.35%	4.731%
7	10.145	10.111	10.204	BB	145207	1610203	90.24%	4.778%
8	11.594	11.551	11.648	BB	135761	1601994	89.78%	4.753%
9	11.909	11.868	11.971	BB	162025	1779109	99.70%	5.279%
10	12.909	12.868	12.981	BB	125833	1536447	86.10%	4.559%
11	13.354	13.314	13.418	BB	105376	1275538	71.48%	3.785%
12	13.522	13.484	13.594	BB	122287	1502197	84.18%	4.457%
13	14.111	14.078	14.178	VB	116146	1511879	84.73%	4.486%
14	15.218	15.151	15.281	BB	117810	1545839	86.63%	4.587%
15	16.242	16.171	16.314	BB	116219	1542744	86.46%	4.578%
16	17.194	17.128	17.254	BB	112172	1547735	86.74%	4.592%
17	18.083	18.038	18.138	BB	113962	1607077	90.06%	4.768%
18	18.918	18.871	18.984	BB	106365	1583504	88.74%	4.698%
19	19.705	19.651	19.771	BB	90061	1456233	81.61%	4.321%
20	20.447	20.401	20.531	BB	73836	1283640	71.94%	3.809%
21	21.188	21.131	21.268	BB	54530	1168118	65.46%	3.466%
22	22.109	22.041	22.231	BB	38465	1142101	64.00%	3.389%
Sum of corrected areas:							33702476	

Aliphatic EPH 030325.M Tue Mar 04 04:15:29 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052578.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 13:04
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Mar 03 13:38:46 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:37:33 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.909	909430	5.394 ug/ml
Spiked Amount 50.000		Recovery =	10.79%
12) S 1-chlorooctadecane (S...	13.354	647768	5.335 ug/ml
Spiked Amount 50.000		Recovery =	10.67%
Target Compounds			
1) T n-Nonane (C9)	3.252	835200	5.387 ug/ml
2) T n-Decane (C10)	4.514	848233	5.399 ug/ml
3) T A~Naphthalene (C11.7)	6.228	898827	5.300 ug/ml
4) T n-Dodecane (C12)	6.695	837084	5.376 ug/ml
5) T A~2-methylnaphthalene...	7.330	855434	5.279 ug/ml
6) T n-Tetradecane (C14)	8.531	812990	5.373 ug/ml
7) T n-Hexadecane (C16)	10.145	822877	5.382 ug/ml
8) T n-Octadecane (C18)	11.593	823940	5.416 ug/ml
10) T n-Eicosane (C20)	12.908	782621	5.391 ug/ml
11) T n-Heneicosane (C21)	13.522	768847	5.402 ug/ml
13) T n-Docosane (C22)	14.110	767013	5.390 ug/ml
14) T n-Tetracosane (C24)	15.216	765651	5.350 ug/ml
15) T n-Hexacosane (C26)	16.241	763577	5.370 ug/ml
16) T n-Octacosane (C28)	17.192	779784	5.484 ug/ml
17) T n-Tricontane (C30)	18.083	846559	5.732 ug/ml
18) T n-Dotriacontane (C32)	18.917	846558	5.831 ug/ml
19) T n-Tetratriacontane (C34)	19.703	778580	5.777 ug/ml
20) T n-Hexatriacontane (C36)	20.445	665672	5.602 ug/ml
21) T n-Octatriacontane (C38)	21.185	613739	5.532 ug/ml
22) T n-Tetracontane (C40)	22.104	588940	5.447 ug/ml

(f)=RT Delta > 1/2 Window

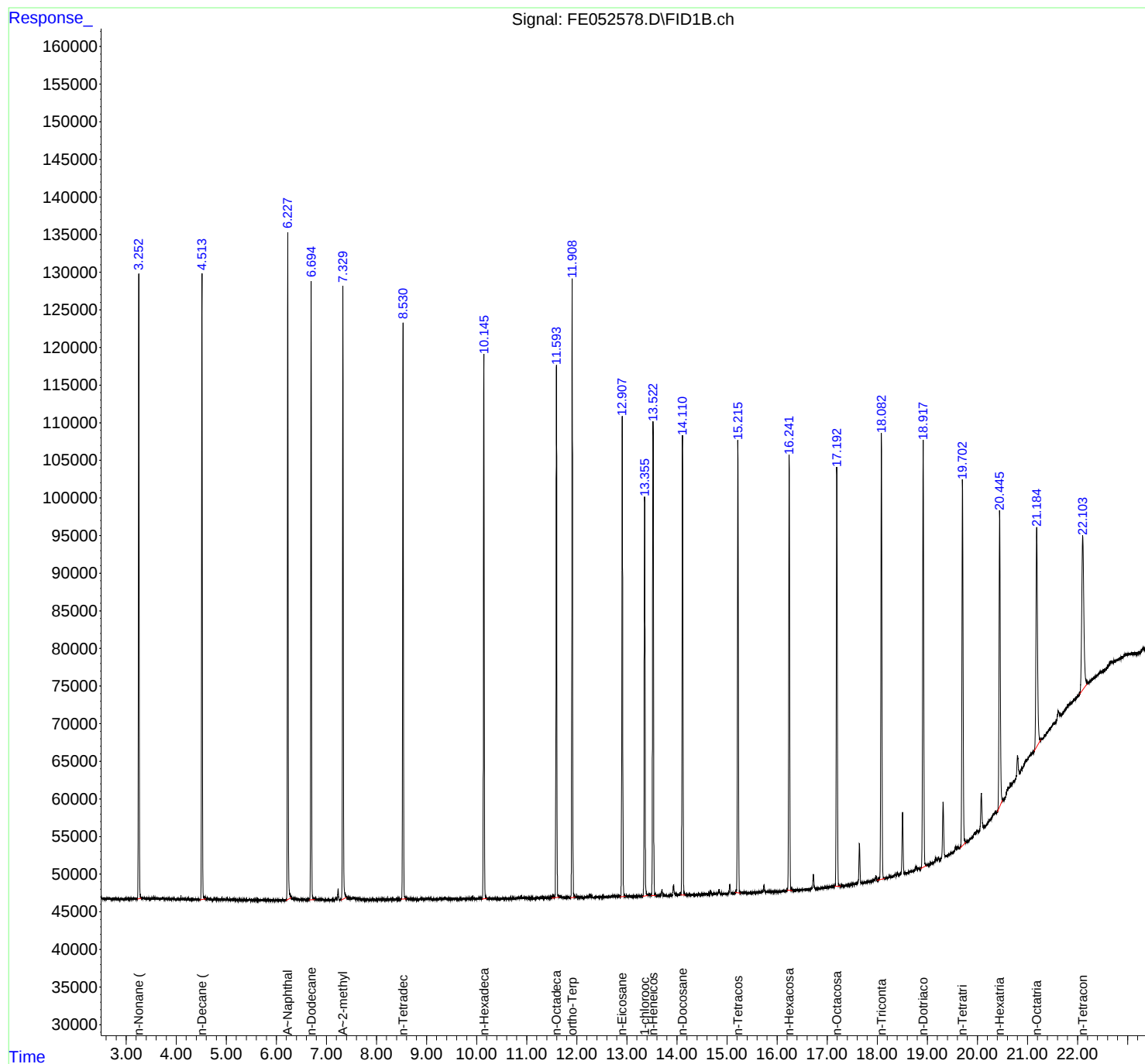
(m)=manual int.

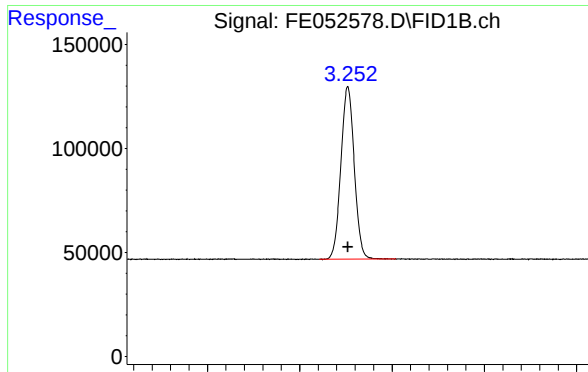
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052578.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:04
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Mar 03 13:38:46 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:37:33 2025
Response via : Initial Calibration
Integrator: ChemStation

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

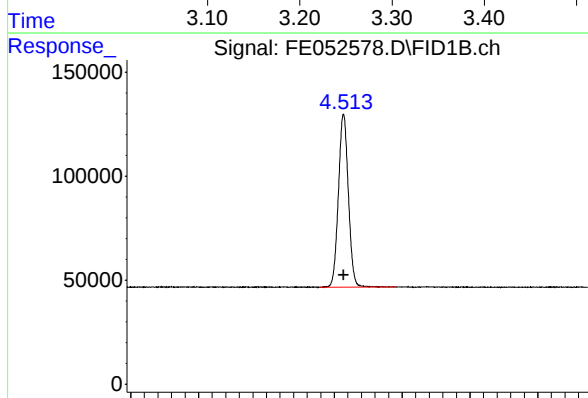




#1 n-Nonane (C9)

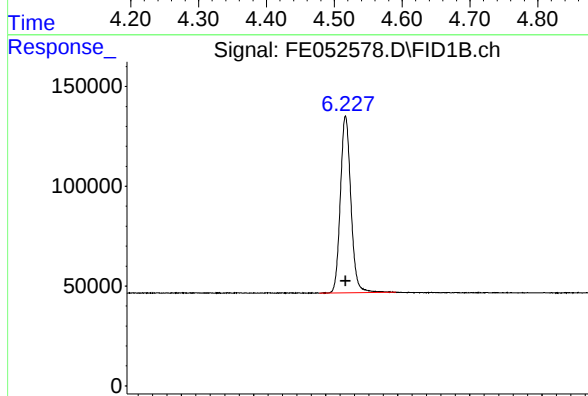
R.T.: 3.252 min
Delta R.T.: 0.000 min
Response: 835200
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



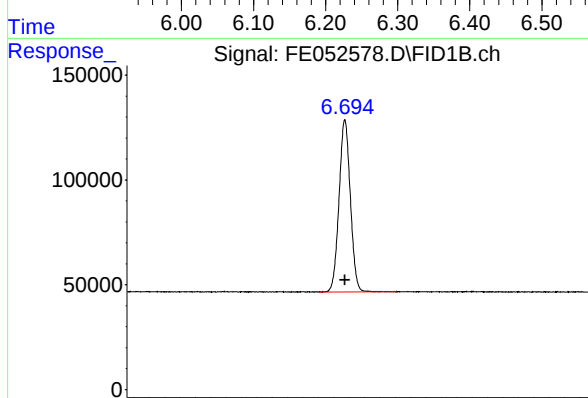
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 848233
Conc: 5.40 ug/ml



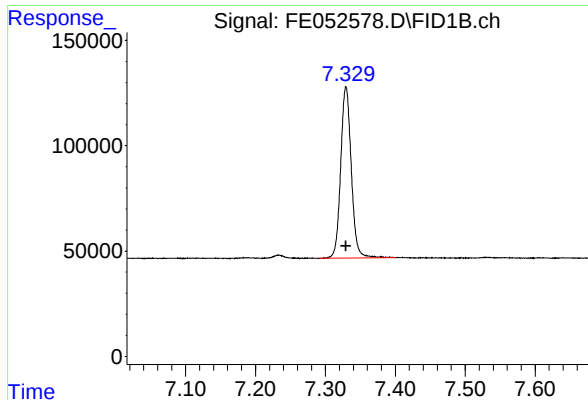
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 898827
Conc: 5.30 ug/ml



#4 n-Dodecane (C12)

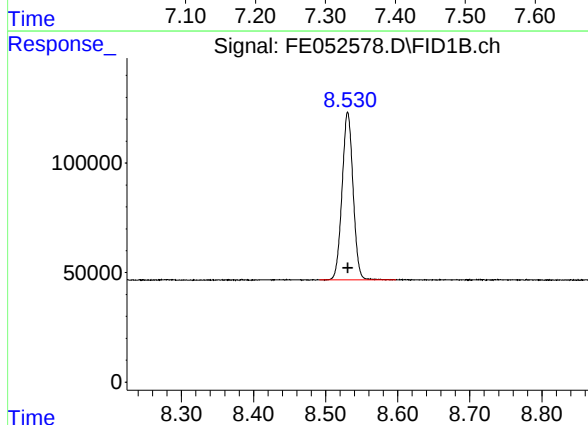
R.T.: 6.695 min
Delta R.T.: 0.000 min
Response: 837084
Conc: 5.38 ug/ml



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

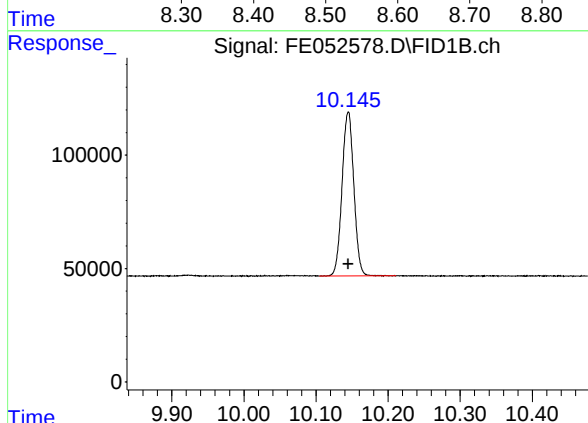
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 855434
Conc: 5.28 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



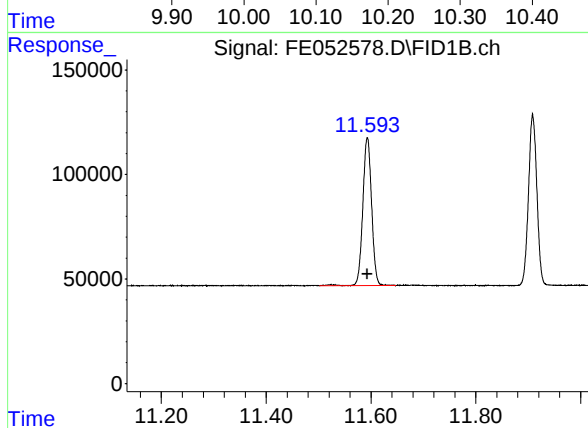
#6 n-Tetradecane (C14)

R.T.: 8.531 min
Delta R.T.: 0.000 min
Response: 812990
Conc: 5.37 ug/ml



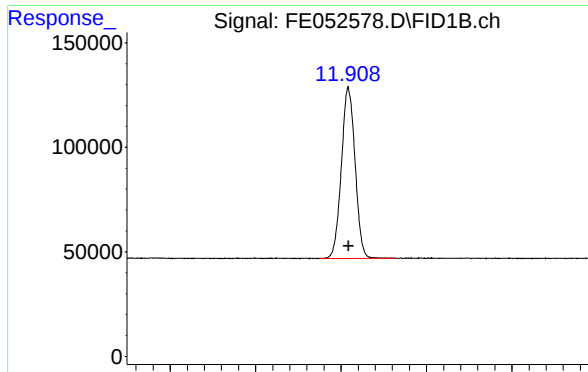
#7 n-Hexadecane (C16)

R.T.: 10.145 min
Delta R.T.: 0.000 min
Response: 822877
Conc: 5.38 ug/ml



#8 n-Octadecane (C18)

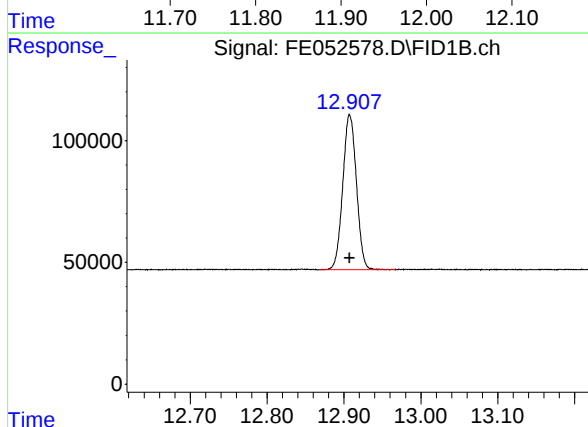
R.T.: 11.593 min
Delta R.T.: 0.000 min
Response: 823940
Conc: 5.42 ug/ml



#9 ortho-Terphenyl (SURR)

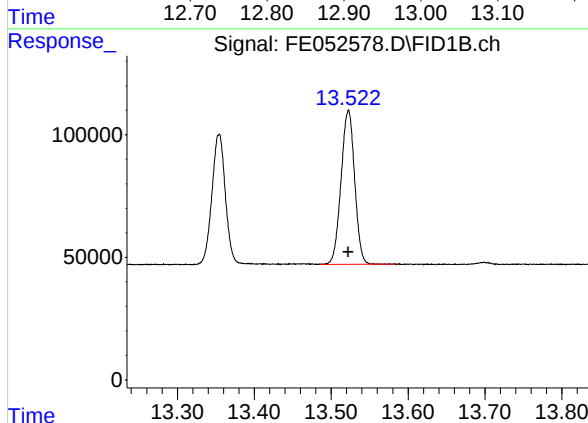
R.T.: 11.909 min
Delta R.T.: 0.000 min
Response: 909430
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



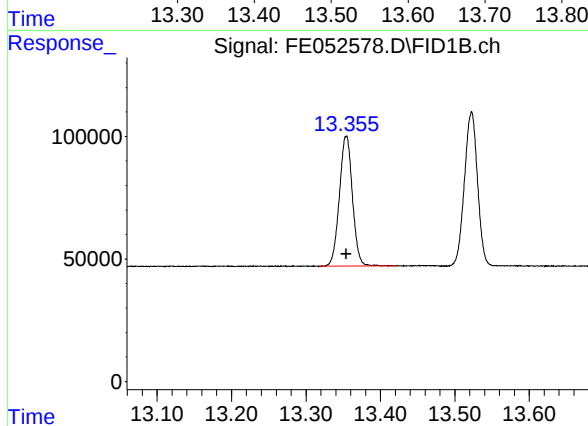
#10 n-Eicosane (C20)

R.T.: 12.908 min
Delta R.T.: 0.000 min
Response: 782621
Conc: 5.39 ug/ml



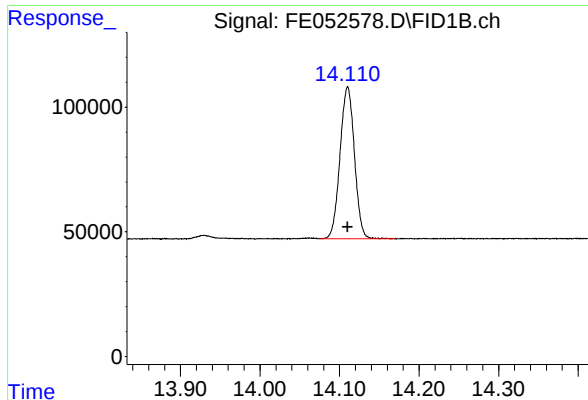
#11 n-Heneicosane (C21)

R.T.: 13.522 min
Delta R.T.: 0.000 min
Response: 768847
Conc: 5.40 ug/ml



#12 1-chlorooctadecane (SURR)

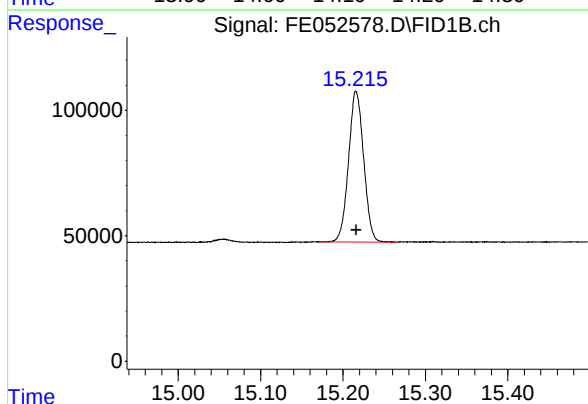
R.T.: 13.354 min
Delta R.T.: 0.000 min
Response: 647768
Conc: 5.33 ug/ml



#13 n-Docosane (C22)

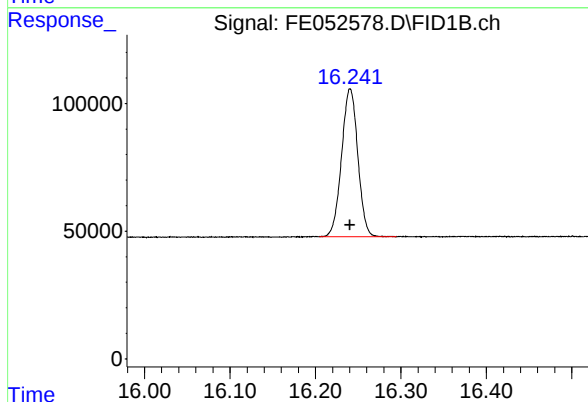
R.T.: 14.110 min
Delta R.T.: 0.000 min
Response: 767013
Conc: 5.39 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



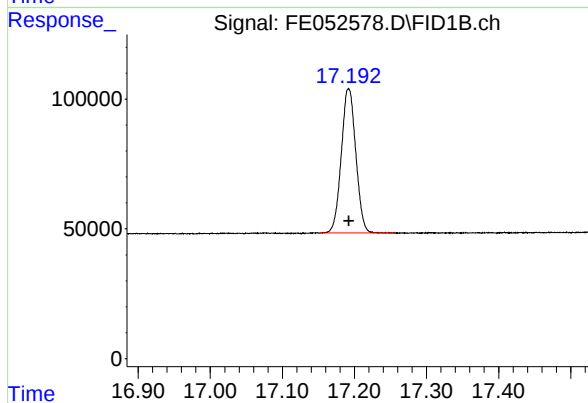
#14 n-Tetracosane (C24)

R.T.: 15.216 min
Delta R.T.: 0.000 min
Response: 765651
Conc: 5.35 ug/ml



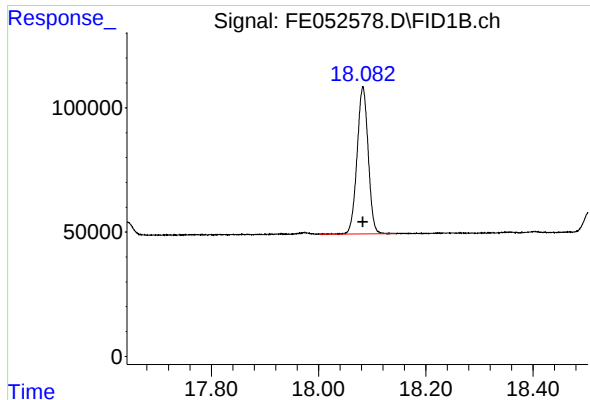
#15 n-Hexacosane (C26)

R.T.: 16.241 min
Delta R.T.: 0.000 min
Response: 763577
Conc: 5.37 ug/ml



#16 n-Octacosane (C28)

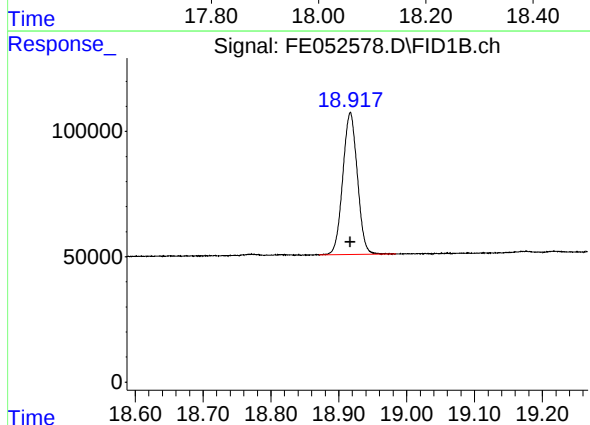
R.T.: 17.192 min
Delta R.T.: 0.000 min
Response: 779784
Conc: 5.48 ug/ml



#17 n-Tricontane (C30)

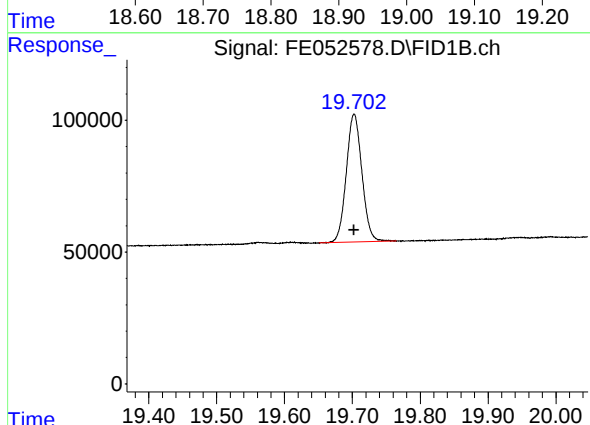
R.T.: 18.083 min
Delta R.T.: 0.000 min
Response: 846559
Conc: 5.73 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



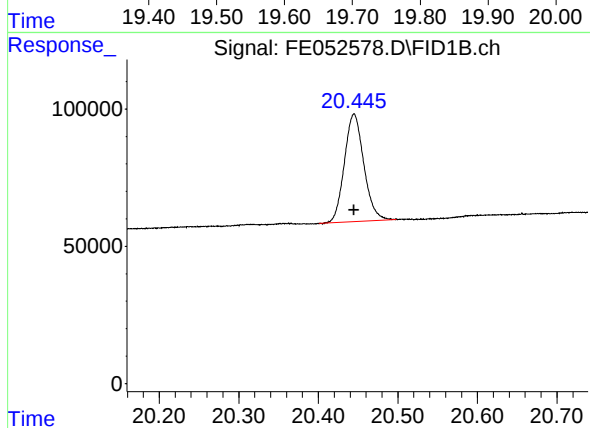
#18 n-Dotriacontane (C32)

R.T.: 18.917 min
Delta R.T.: 0.000 min
Response: 846558
Conc: 5.83 ug/ml



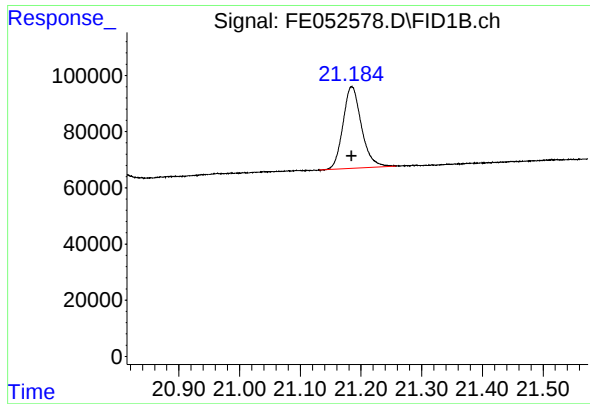
#19 n-Tetratriacontane (C34)

R.T.: 19.703 min
Delta R.T.: 0.000 min
Response: 778580
Conc: 5.78 ug/ml



#20 n-Hexatriacontane (C36)

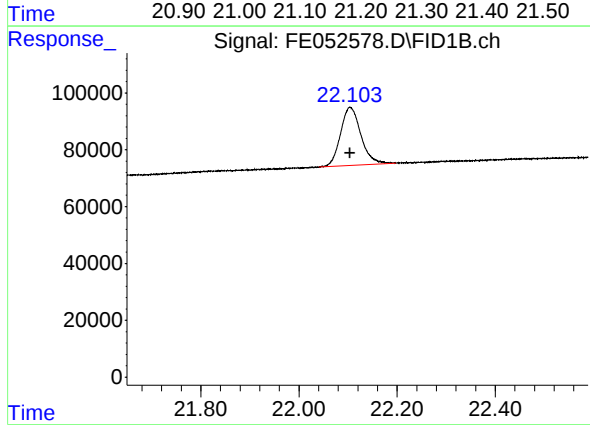
R.T.: 20.445 min
Delta R.T.: 0.000 min
Response: 665672
Conc: 5.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.185 min
Delta R.T.: 0.000 min
Response: 613739
Conc: 5.53 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.104 min
Delta R.T.: 0.000 min
Response: 588940
Conc: 5.45 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052578.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 13:04
 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 030325.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	3.304	BB	82567	835200	91.84%	4.839%
2	4.514	4.478	4.591	BB	83234	848233	93.27%	4.915%
3	6.228	6.191	6.298	BB	88505	898827	98.83%	5.208%
4	6.695	6.661	6.761	BB	82093	837084	92.04%	4.850%
5	7.330	7.291	7.401	BB	81098	855434	94.06%	4.956%
6	8.531	8.491	8.598	BB	76461	812990	89.40%	4.710%
7	10.145	10.104	10.211	BB	72313	822877	90.48%	4.768%
8	11.593	11.501	11.648	BB	70861	823940	90.60%	4.774%
9	11.909	11.874	11.964	BB	81463	909430	100.00%	5.269%
10	12.908	12.868	12.968	BB	63441	782621	86.06%	4.534%
11	13.354	13.318	13.421	BB	53208	647768	71.23%	3.753%
12	13.522	13.484	13.584	BB	62420	768847	84.54%	4.455%
13	14.110	14.074	14.171	BB	61042	767013	84.34%	4.444%
14	15.216	15.171	15.264	BB	59393	765651	84.19%	4.436%
15	16.241	16.204	16.294	BB	57980	763577	83.96%	4.424%
16	17.192	17.151	17.258	BB	55884	779784	85.74%	4.518%
17	18.083	18.001	18.144	BB	58718	846559	93.09%	4.905%
18	18.917	18.871	18.984	BB	56748	846558	93.09%	4.905%
19	19.703	19.651	19.764	BB	48522	778580	85.61%	4.511%
20	20.445	20.401	20.498	BB	39239	665672	73.20%	3.857%
21	21.185	21.131	21.258	BB	29081	613739	67.49%	3.556%
22	22.104	22.041	22.198	BB	20470	588940	64.76%	3.412%
Sum of corrected areas:							17259325	

Aliphatic EPH 030325.M Tue Mar 04 04:15:51 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
 Data File : FE052579.D
 Signal(s) : FID1B.ch
 Acq On : 03 Mar 2025 13:35
 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: Mar 03 14:00:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.911	3455691	20.498 ug/ml
Spiked Amount 50.000		Recovery =	41.00%
12) S 1-chlorooctadecane (S...	13.356	2497681	20.570 ug/ml
Spiked Amount 50.000		Recovery =	41.14%
Target Compounds			
1) T n-Nonane (C9)	3.252	3187537	20.558 ug/ml
2) T n-Decane (C10)	4.514	3233718	20.584 ug/ml
3) T A~Naphthalene (C11.7)	6.228	3492595	20.594 ug/ml
4) T n-Dodecane (C12)	6.696	3203904	20.578 ug/ml
5) T A~2-methylnaphthalene...	7.330	3339319	20.606 ug/ml
6) T n-Tetradecane (C14)	8.532	3105696	20.525 ug/ml
7) T n-Hexadecane (C16)	10.147	3133929	20.498 ug/ml
8) T n-Octadecane (C18)	11.595	3112121	20.455 ug/ml
10) T n-Eicosane (C20)	12.910	2971006	20.465 ug/ml
11) T n-Heneicosane (C21)	13.524	2915343	20.483 ug/ml
13) T n-Docosane (C22)	14.111	2909985	20.448 ug/ml
14) T n-Tetracosane (C24)	15.219	2928929	20.466 ug/ml
15) T n-Hexacosane (C26)	16.241	2909458	20.461 ug/ml
16) T n-Octacosane (C28)	17.194	2913880	20.492 ug/ml
17) T n-Tricontane (C30)	18.084	3032387	20.531 ug/ml
18) T n-Dotriacontane (C32)	18.919	2988204	20.583 ug/ml
19) T n-Tetratriacontane (C34)	19.705	2786554	20.675 ug/ml
20) T n-Hexatriacontane (C36)	20.448	2490703	20.961 ug/ml
21) T n-Octatriacontane (C38)	21.189	2317135	20.887 ug/ml
22) T n-Tetracontane (C40)	22.111	2256635	20.872 ug/ml

(f)=RT Delta > 1/2 Window

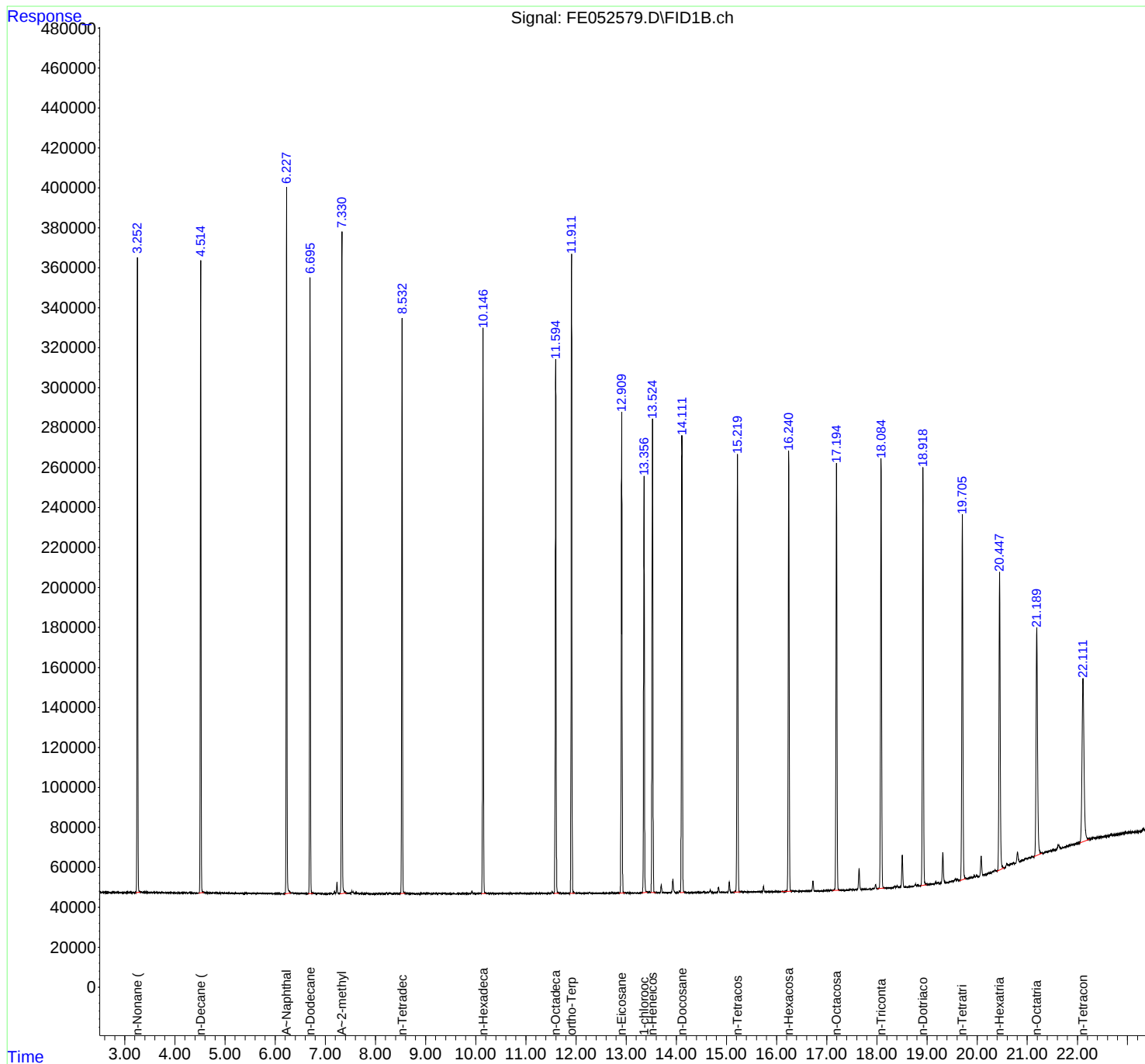
(m)=manual int.

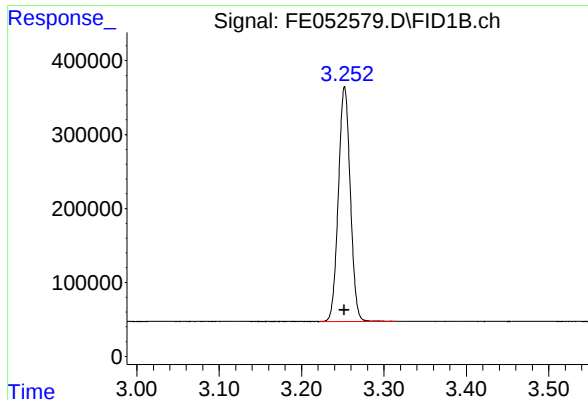
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052579.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:35
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Mar 03 14:00:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#1 n-Nonane (C9)

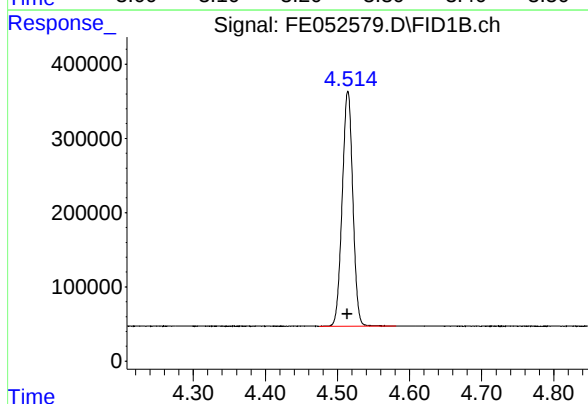
R.T.: 3.252 min
Delta R.T.: 0.000 min
Response: 3187537
Conc: 20.56 ug/ml

Instrument :

FID_E

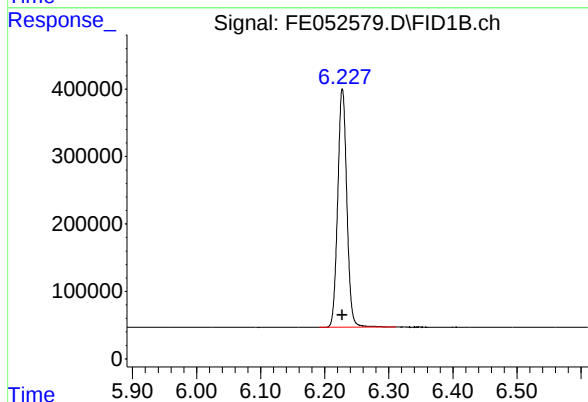
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



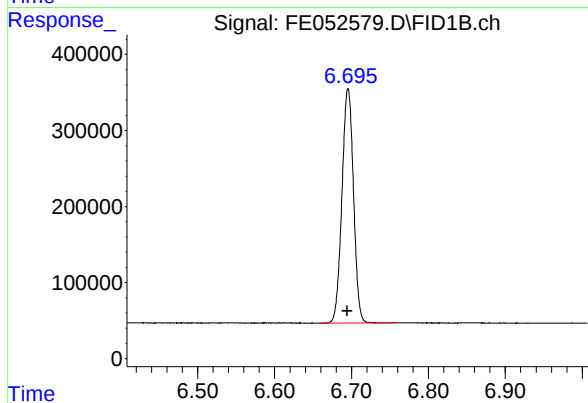
#2 n-Decane (C10)

R.T.: 4.514 min
Delta R.T.: 0.000 min
Response: 3233718
Conc: 20.58 ug/ml



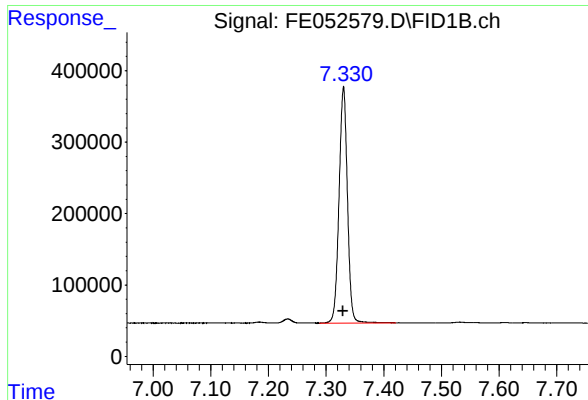
#3 A~Naphthalene (C11.7)

R.T.: 6.228 min
Delta R.T.: 0.000 min
Response: 3492595
Conc: 20.59 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.696 min
Delta R.T.: 0.000 min
Response: 3203904
Conc: 20.58 ug/ml



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

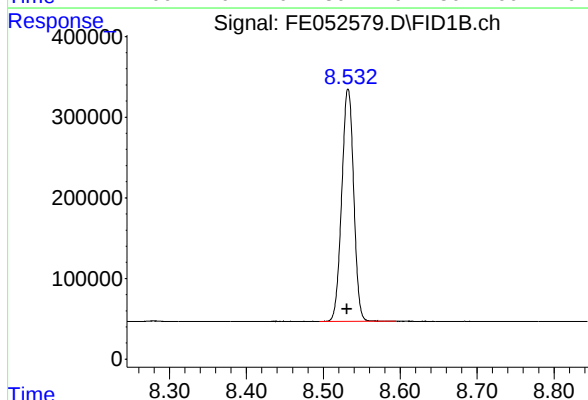
R.T.: 7.330 min
Delta R.T.: 0.000 min
Response: 3339319
Conc: 20.61 ug/ml

Instrument :

FID_E

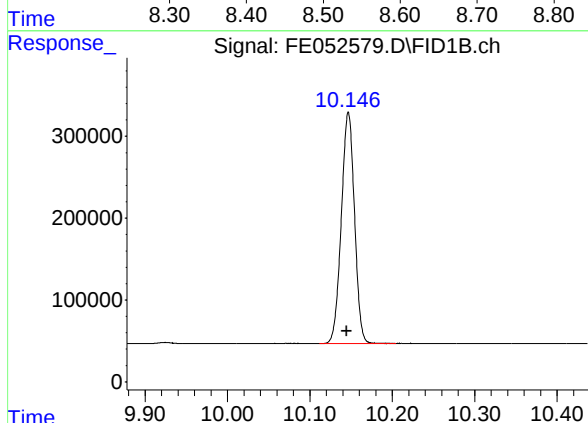
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



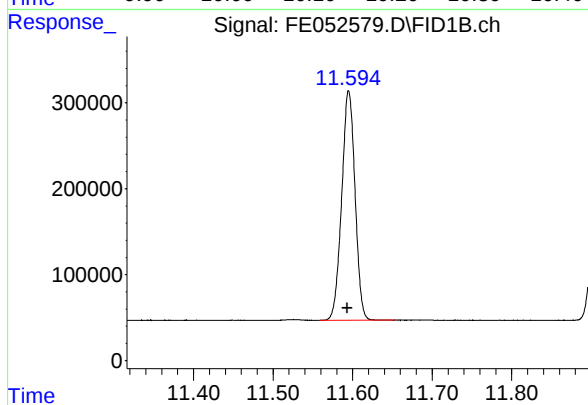
#6 n-Tetradecane (C14)

R.T.: 8.532 min
Delta R.T.: 0.001 min
Response: 3105696
Conc: 20.53 ug/ml



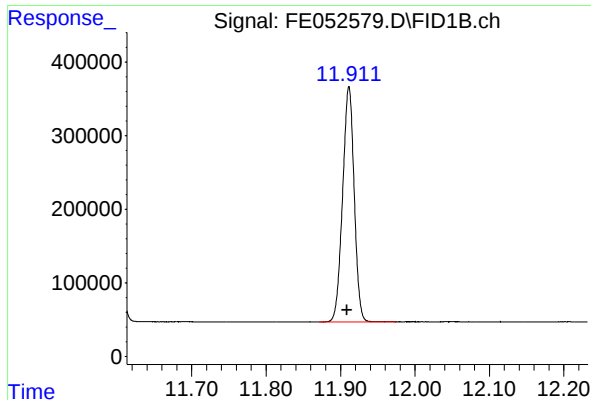
#7 n-Hexadecane (C16)

R.T.: 10.147 min
Delta R.T.: 0.002 min
Response: 3133929
Conc: 20.50 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.595 min
Delta R.T.: 0.002 min
Response: 3112121
Conc: 20.46 ug/ml



#9 ortho-Terphenyl (SURR)

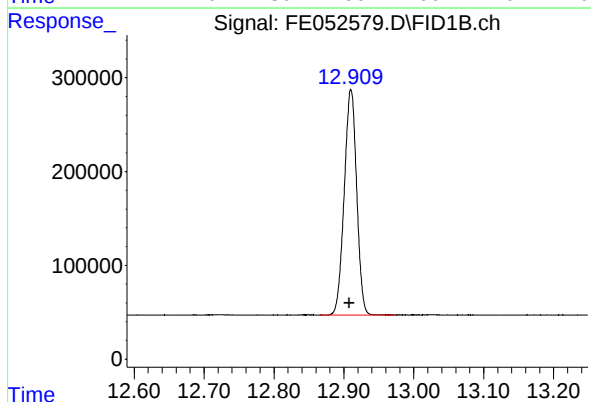
R.T.: 11.911 min
Delta R.T.: 0.003 min
Response: 3455691
Conc: 20.50 ug/ml

Instrument :

FID_E

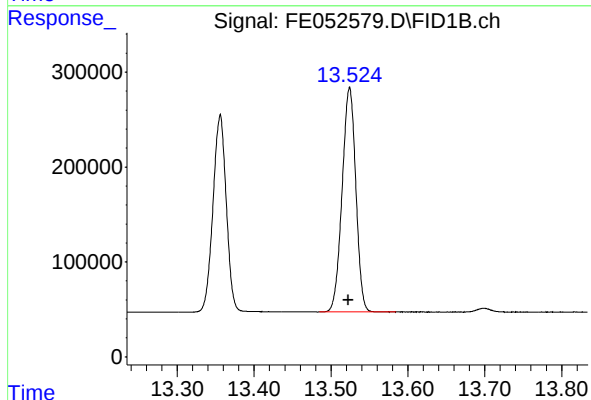
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



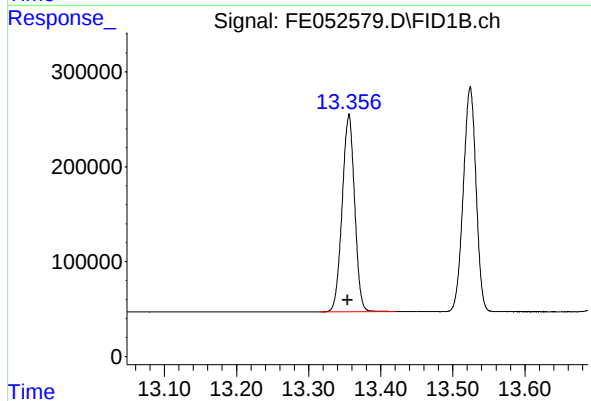
#10 n-Eicosane (C20)

R.T.: 12.910 min
Delta R.T.: 0.002 min
Response: 2971006
Conc: 20.47 ug/ml



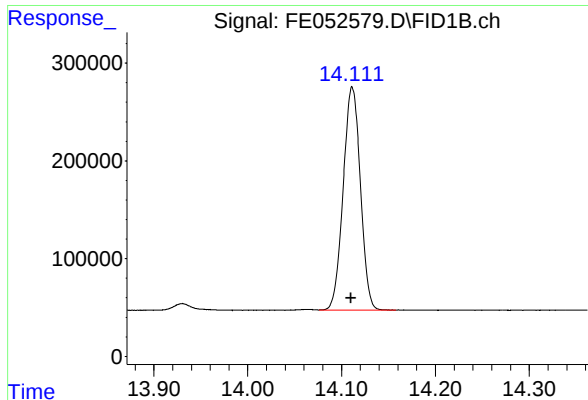
#11 n-Heneicosane (C21)

R.T.: 13.524 min
Delta R.T.: 0.002 min
Response: 2915343
Conc: 20.48 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.356 min
Delta R.T.: 0.002 min
Response: 2497681
Conc: 20.57 ug/ml



#13 n-Docosane (C22)

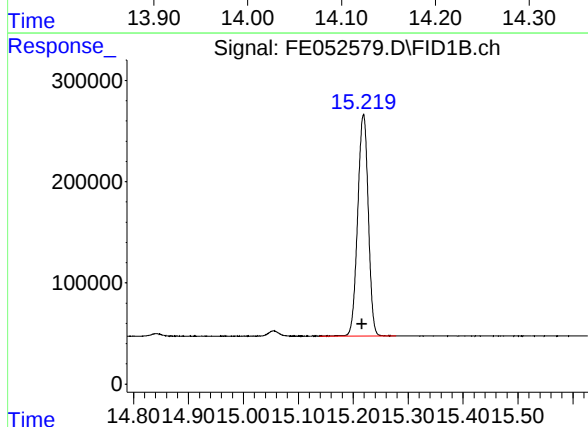
R.T.: 14.111 min
Delta R.T.: 0.001 min
Response: 2909985
Conc: 20.45 ug/ml

Instrument :

FID_E

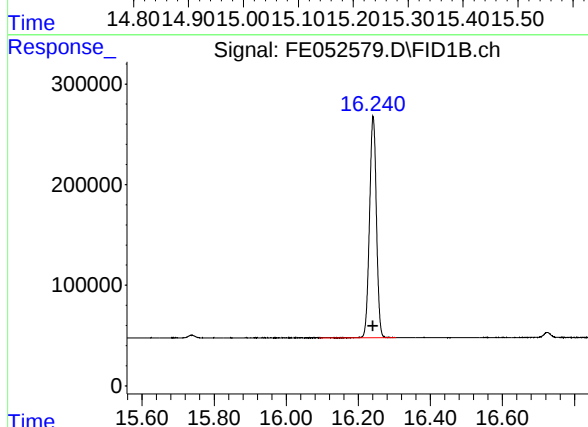
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



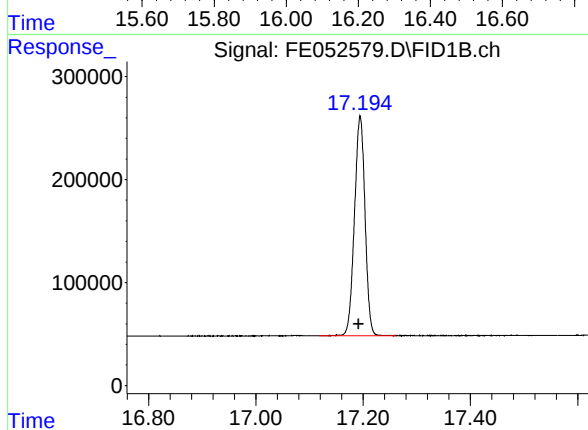
#14 n-Tetracosane (C24)

R.T.: 15.219 min
Delta R.T.: 0.003 min
Response: 2928929
Conc: 20.47 ug/ml



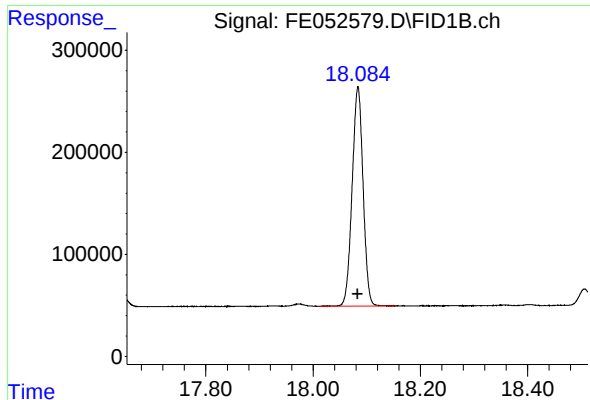
#15 n-Hexacosane (C26)

R.T.: 16.241 min
Delta R.T.: 0.000 min
Response: 2909458
Conc: 20.46 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.194 min
Delta R.T.: 0.002 min
Response: 2913880
Conc: 20.49 ug/ml



#17 n-Tricontane (C30)

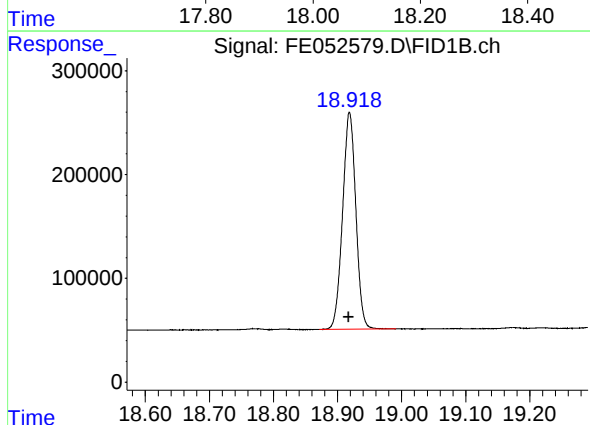
R.T.: 18.084 min
Delta R.T.: 0.001 min
Response: 3032387
Conc: 20.53 ug/ml

Instrument :

FID_E

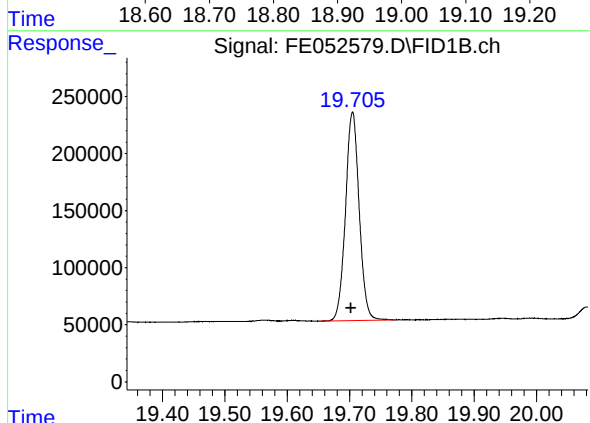
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



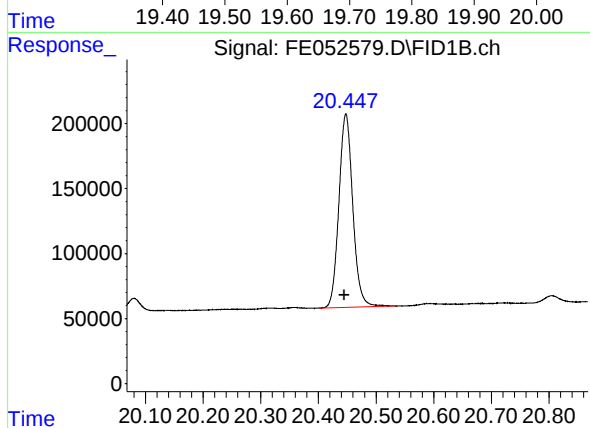
#18 n-Dotriacontane (C32)

R.T.: 18.919 min
Delta R.T.: 0.002 min
Response: 2988204
Conc: 20.58 ug/ml



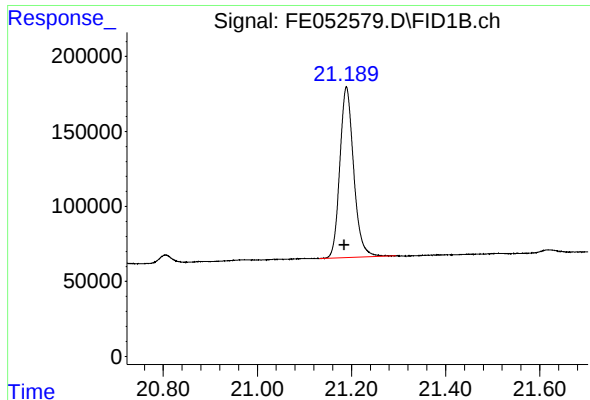
#19 n-Tetatriacontane (C34)

R.T.: 19.705 min
Delta R.T.: 0.002 min
Response: 2786554
Conc: 20.67 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.448 min
Delta R.T.: 0.003 min
Response: 2490703
Conc: 20.96 ug/ml



#21 n-Octatriacontane (C38)

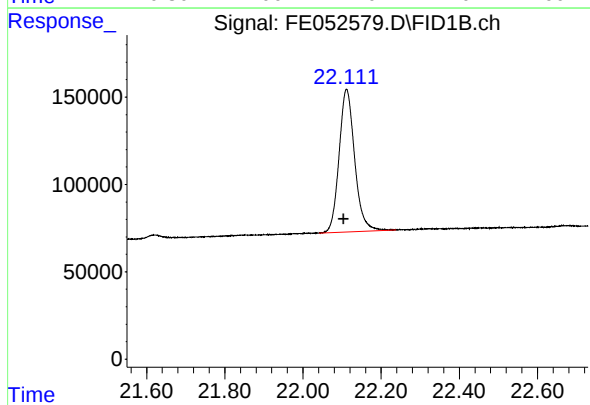
R.T.: 21.189 min
Delta R.T.: 0.005 min
Response: 2317135
Conc: 20.89 ug/ml

Instrument :

FID_E

ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.111 min
Delta R.T.: 0.007 min
Response: 2256635
Conc: 20.87 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE030325AL\
Data File : FE052579.D
Signal(s) : FID1B.ch
Acq On : 03 Mar 2025 13:35
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 030325.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	3.315	BB	316370	3187537	91.27%	4.890%
2	4.514	4.475	4.581	BB	317352	3233718	92.59%	4.961%
3	6.228	6.191	6.311	BB	353933	3492595	100.00%	5.358%
4	6.696	6.658	6.758	BB	308321	3203904	91.73%	4.915%
5	7.330	7.288	7.421	BB	330915	3339319	95.61%	5.123%
6	8.532	8.495	8.595	BB	289204	3105696	88.92%	4.765%
7	10.147	10.111	10.205	BB	283052	3133929	89.73%	4.808%
8	11.595	11.558	11.655	BB	267693	3112121	89.11%	4.774%
9	11.911	11.871	11.975	BB	320258	3455691	98.94%	5.302%
10	12.910	12.865	12.975	BB	241076	2971006	85.07%	4.558%
11	13.356	13.315	13.421	BB	205009	2497681	71.51%	3.832%
12	13.524	13.485	13.585	BB	236434	2915343	83.47%	4.473%
13	14.111	14.076	14.158	VB	228081	2909985	83.32%	4.464%
14	15.219	15.138	15.278	BB	218919	2928929	83.86%	4.493%
15	16.241	16.091	16.305	BB	220045	2909458	83.30%	4.464%
16	17.194	17.118	17.261	BB	212865	2913880	83.43%	4.470%
17	18.084	18.011	18.155	BB	215009	3032387	86.82%	4.652%
18	18.919	18.871	18.991	BB	209239	2988204	85.56%	4.584%
19	19.705	19.651	19.775	BB	182519	2786554	79.78%	4.275%
20	20.448	20.401	20.535	BB	148923	2490703	71.31%	3.821%
21	21.189	21.131	21.295	BB	113912	2317135	66.34%	3.555%
22	22.111	22.041	22.238	BB	81783	2256635	64.61%	3.462%
Sum of corrected areas:							65182406	

Aliphatic EPH 030325.M Tue Mar 04 04:16:17 2025

Continuing Calibration Report for SequenceID : FE031225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE052758.D

Aliphatic C12-C16	5731996.000	40.000	6.791	10.243	143299.900	152098.489	5.785
Aliphatic C9-C12	8650403.000	60.000	3.148	6.790	144173.383	155948.436	7.551
Aliphatic C16-C21	8178503.000	60.000	10.244	13.621	136308.383	146548.085	6.987
Aliphatic C21-C28	10776320.000	80.000	13.622	17.293	134704.000	142451.851	5.439
Aliphatic C28-C40	15100131.000	120.000	17.294	22.210	125834.425	127589.108	1.375
Aliphatic EPH	48437353.000	360.000	3.148	22.210	134548.203	141501.588	4.914

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	12 Mar 2025 11:29
Client Sample ID:		Operator:	YP\AJ
Data file:	FE052758.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.148	6.790	8650403.000	60.000	ug/ml
Aliphatic C12-C16	6.791	10.243	5731996.000	40.000	ug/ml
Aliphatic C16-C21	10.244	13.621	8178503.000	60.000	ug/ml
Aliphatic C21-C28	13.622	17.293	10776320.000	80.000	ug/ml
Aliphatic C28-C40	17.294	22.210	15100131.000	120.000	ug/ml
Aliphatic EPH	3.148	22.210	48437353.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052758.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 11:29
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Mar 13 03:54:01 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.908	3091267	18.336 ug/ml
Spiked Amount 50.000		Recovery =	36.67%
12) S 1-chlorooctadecane (S...	13.353	2276090	18.745 ug/ml
Spiked Amount 50.000		Recovery =	37.49%
Target Compounds			
1) T n-Nonane (C9)	3.247	2810921	18.129 ug/ml
2) T n-Decane (C10)	4.509	2924744	18.618 ug/ml
3) T A~Naphthalene (C11.7)	6.223	3145996	18.550 ug/ml
4) T n-Dodecane (C12)	6.691	2914738	18.720 ug/ml
5) T A~2-methylnaphthalene...	7.325	3015903	18.610 ug/ml
6) T n-Tetradecane (C14)	8.528	2849305	18.831 ug/ml
7) T n-Hexadecane (C16)	10.143	2882691	18.855 ug/ml
8) T n-Octadecane (C18)	11.592	2847973	18.719 ug/ml
10) T n-Eicosane (C20)	12.907	2698813	18.590 ug/ml
11) T n-Heneicosane (C21)	13.521	2631717	18.490 ug/ml
13) T n-Docosane (C22)	14.110	2641394	18.561 ug/ml
14) T n-Tetracosane (C24)	15.215	2693460	18.821 ug/ml
15) T n-Hexacosane (C26)	16.239	2688793	18.909 ug/ml
16) T n-Octacosane (C28)	17.192	2752673	19.358 ug/ml
17) T n-Tricontane (C30)	18.081	2888958	19.560 ug/ml
18) T n-Dotriacontane (C32)	18.915	2871164	19.777 ug/ml
19) T n-Tetratriacontane (C34)	19.700	2664977	19.773 ug/ml
20) T n-Hexatriacontane (C36)	20.443	2371487	19.958 ug/ml
21) T n-Octatriacontane (C38)	21.184	2201838	19.848 ug/ml
22) T n-Tetracontane (C40)	22.104	2101707	19.439 ug/ml

(f)=RT Delta > 1/2 Window

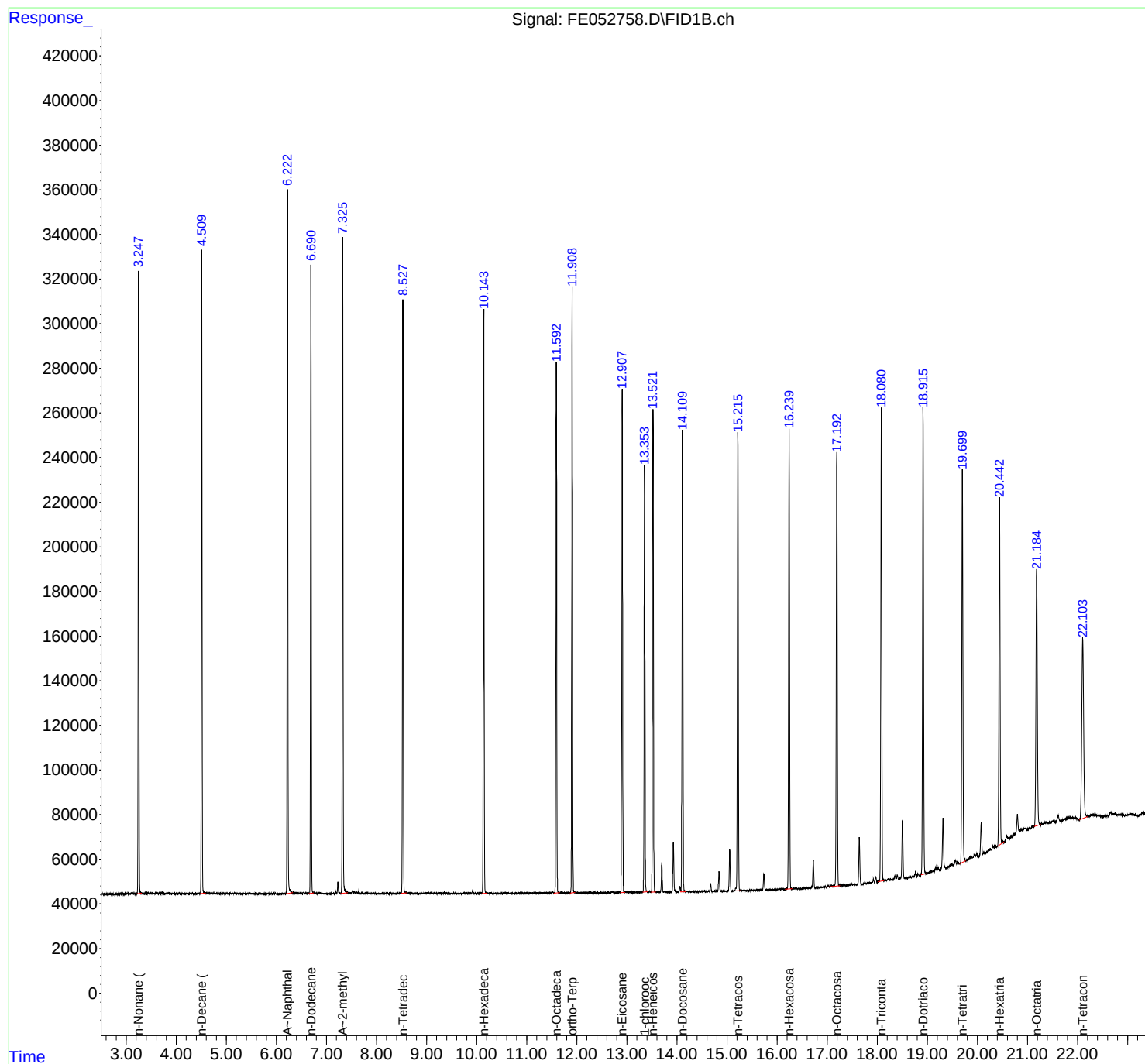
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052758.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 11:29
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Mar 13 03:54:01 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052758.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 11:29
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.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	3.247	3.208	3.314	BB	278356	2810921	89.35%	4.687%
2	4.509	4.474	4.588	BB	285967	2924744	92.97%	4.877%
3	6.223	6.181	6.324	BB	313335	3145996	100.00%	5.246%
4	6.691	6.644	6.748	BB	280444	2914738	92.65%	4.861%
5	7.325	7.284	7.424	BB	293453	3015903	95.86%	5.029%
6	8.528	8.491	8.594	BB	265827	2849305	90.57%	4.751%
7	10.143	10.101	10.204	BB	262789	2882691	91.63%	4.807%
8	11.592	11.548	11.654	BB	238725	2847973	90.53%	4.749%
9	11.908	11.861	11.964	BB	269665	3091267	98.26%	5.155%
10	12.907	12.868	12.968	BB	226089	2698813	85.79%	4.501%
11	13.353	13.311	13.418	BB	191404	2276090	72.35%	3.796%
12	13.521	13.481	13.581	BB	215776	2631717	83.65%	4.389%
13	14.110	14.076	14.174	VB	206224	2641394	83.96%	4.405%
14	15.215	15.144	15.278	BB	205528	2693460	85.62%	4.492%
15	16.239	16.164	16.304	BB	202769	2688793	85.47%	4.484%
16	17.192	16.978	17.261	BB	193863	2752673	87.50%	4.590%
17	18.081	18.011	18.134	BB	212153	2888958	91.83%	4.818%
18	18.915	18.871	18.981	BB	208641	2871164	91.26%	4.788%
19	19.700	19.651	19.768	BB	175412	2664977	84.71%	4.444%
20	20.443	20.401	20.528	BB	155814	2371487	75.38%	3.955%
21	21.184	21.131	21.258	BB	115169	2201838	69.99%	3.672%
22	22.104	22.041	22.201	BB	80994	2101707	66.81%	3.505%
Sum of corrected areas:						59966607		

Aliphatic EPH 030325.M Thu Mar 13 05:39:22 2025

Continuing Calibration Report for SequenceID : FE031225AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE052771.D

Aliphatic C12-C16	5691567.000	40.000	6.791	10.243	142289.175	152098.489	6.449
Aliphatic C9-C12	5804698.000	60.000	3.148	6.790	96744.967	155948.436	37.963
Aliphatic C16-C21	8107573.000	60.000	10.244	13.621	135126.217	146548.085	7.794
Aliphatic C21-C28	10769149.000	80.000	13.622	17.293	134614.363	142451.851	5.502
Aliphatic C28-C40	15618020.000	120.000	17.294	22.210	130150.167	127589.108	-2.007
Aliphatic EPH	45991007.000	360.000	3.148	22.210	127752.797	141501.588	9.716

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	12 Mar 2025 18:39
Client Sample ID:		Operator:	YP\AJ
Data file:	FE052771.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.148	6.790	5804698.000	60.000	ug/ml
Aliphatic C12-C16	6.791	10.243	5691567.000	40.000	ug/ml
Aliphatic C16-C21	10.244	13.621	8107573.000	60.000	ug/ml
Aliphatic C21-C28	13.622	17.293	10769149.000	80.000	ug/ml
Aliphatic C28-C40	17.294	22.210	15618020.000	120.000	ug/ml
Aliphatic EPH	3.148	22.210	45991007.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052771.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 18:39
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Mar 13 07:46:22 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

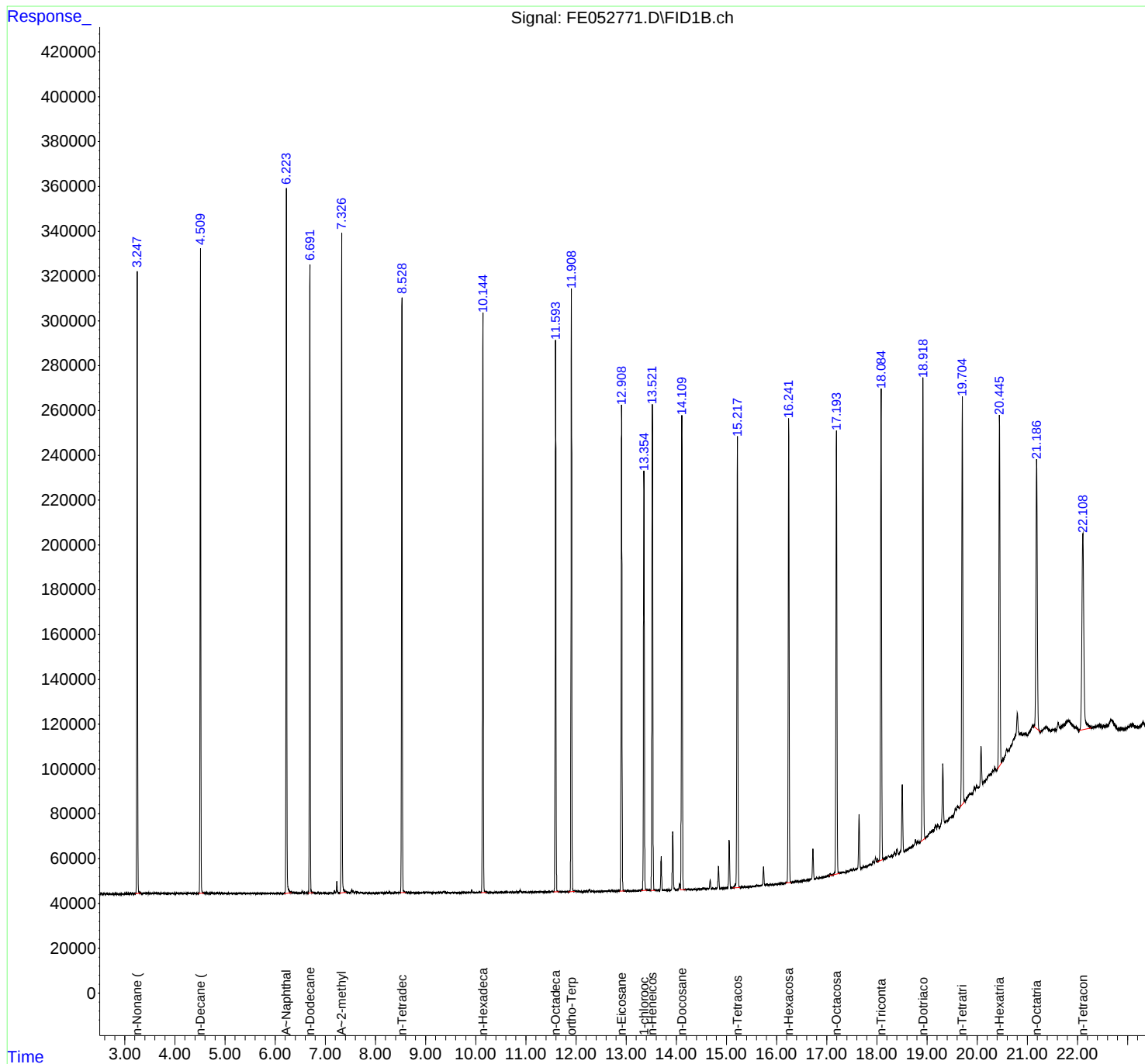
System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.909	3047637	18.078 ug/ml
Spiked Amount 50.000		Recovery =	36.16%
12) S 1-chlorooctadecane (S...	13.354	2276006	18.744 ug/ml
Spiked Amount 50.000		Recovery =	37.49%
Target Compounds			
1) T n-Nonane (C9)	3.248	2794918	18.026 ug/ml
2) T n-Decane (C10)	4.509	2907791	18.510 ug/ml
3) T A~Naphthalene (C11.7)	6.224	3119032	18.391 ug/ml
4) T n-Dodecane (C12)	6.691	2896907	18.606 ug/ml
5) T A~2-methylnaphthalene...	7.327	2983440	18.410 ug/ml
6) T n-Tetradecane (C14)	8.529	2831815	18.715 ug/ml
7) T n-Hexadecane (C16)	10.144	2859752	18.705 ug/ml
8) T n-Octadecane (C18)	11.593	2821531	18.545 ug/ml
10) T n-Eicosane (C20)	12.908	2674872	18.425 ug/ml
11) T n-Heneicosane (C21)	13.522	2611170	18.346 ug/ml
13) T n-Docosane (C22)	14.111	2620155	18.412 ug/ml
14) T n-Tetracosane (C24)	15.217	2692287	18.813 ug/ml
15) T n-Hexacosane (C26)	16.241	2685510	18.886 ug/ml
16) T n-Octacosane (C28)	17.193	2771197	19.489 ug/ml
17) T n-Tricontane (C30)	18.084	2943127	19.926 ug/ml
18) T n-Dotriacontane (C32)	18.918	2950134	20.321 ug/ml
19) T n-Tetratriacontane (C34)	19.704	2702165	20.049 ug/ml
20) T n-Hexatriacontane (C36)	20.445	2402327	20.218 ug/ml
21) T n-Octatriacontane (C38)	21.187	2252592	20.305 ug/ml
22) T n-Tetracontane (C40)	22.109	2367675	21.899 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

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\FE031225AL\
Data File : FE052771.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 18:39
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.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	3.214	3.311	BB	277187	2794918	89.61%	4.642%
2	4.509	4.474	4.578	BB	287138	2907791	93.23%	4.829%
3	6.224	6.181	6.328	BB	313992	3119032	100.00%	5.180%
4	6.691	6.658	6.758	BB	279958	2896907	92.88%	4.811%
5	7.327	7.288	7.418	BB	294047	2983440	95.65%	4.955%
6	8.529	8.494	8.598	BB	266076	2831815	90.79%	4.703%
7	10.144	10.101	10.211	BB	257915	2859752	91.69%	4.749%
8	11.593	11.551	11.658	BB	245044	2821531	90.46%	4.686%
9	11.909	11.844	11.968	BB	269786	3047637	97.71%	5.062%
10	12.908	12.868	12.964	BB	213431	2674872	85.76%	4.442%
11	13.354	13.298	13.421	BB	186491	2276006	72.97%	3.780%
12	13.522	13.484	13.581	BB	215372	2611170	83.72%	4.337%
13	14.111	14.077	14.178	VB	211272	2620155	84.01%	4.352%
14	15.217	15.124	15.274	BB	201828	2692287	86.32%	4.471%
15	16.241	16.181	16.284	BB	207106	2685510	86.10%	4.460%
16	17.193	17.051	17.258	BB	198742	2771197	88.85%	4.602%
17	18.084	18.004	18.124	BV	211598	2943127	94.36%	4.888%
18	18.918	18.871	18.971	BV	206181	2950134	94.58%	4.900%
19	19.704	19.651	19.741	BV	182000	2702165	86.63%	4.488%
20	20.445	20.401	20.485	BV	156175	2402327	77.02%	3.990%
21	21.187	21.131	21.264	BV	120037	2252592	72.22%	3.741%
22	22.109	22.041	22.281	BB	87576	2367675	75.91%	3.932%
Sum of corrected areas:							60212035	

Aliphatic EPH 030325.M Thu Mar 13 05:42:40 2025



QC SAMPLE DATA

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	PB167096BL	SDG No.:	Q1542
Lab Sample ID:	PB167096BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 12:08	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1	1.72	4.00	mg/kg	FE052759.D
Total EPH	Total EPH	1.72	U		1.72	4.00	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	PB167096BL	SDG No.:	Q1542
Lab Sample ID:	PB167096BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052759.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.72	U	1.72	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.3		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167096BL	Acq On:	12 Mar 2025 12:08
Client Sample ID:	PB167096BL	Operator:	YP\AJ
Data file:	FE052759.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.148	6.790	0	0	300	ug/ml
Aliphatic C12-C16	6.791	10.243	0	0	200	ug/ml
Aliphatic C16-C21	10.244	13.621	0	0	300	ug/ml
Aliphatic C21-C28	13.622	17.293	0	0	400	ug/ml
Aliphatic C28-C40	17.294	22.210	0	0	600	ug/ml
Aliphatic EPH	3.148	22.210	0	0		ug/ml
ortho-Terphenyl (SURR)	11.911	11.911	6364868	37.75		ug/ml
1-chlorooctadecane (SURR)	13.356	13.356	4768449	39.27		ug/ml
Aliphatic C9-C28	3.148	17.293	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052759.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 12:08
Operator : YP\AJ
Sample : PB167096BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167096BL

Integration File: autoint1.e
Quant Time: Mar 13 03:54:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.911	6364868	37.754 ug/ml
Spiked Amount	50.000	Recovery	= 75.51%
12) S 1-chlorooctadecane (S...	13.356	4768449	39.270 ug/ml
Spiked Amount	50.000	Recovery	= 78.54%

Target Compounds

(f)=RT Delta > 1/2 Window

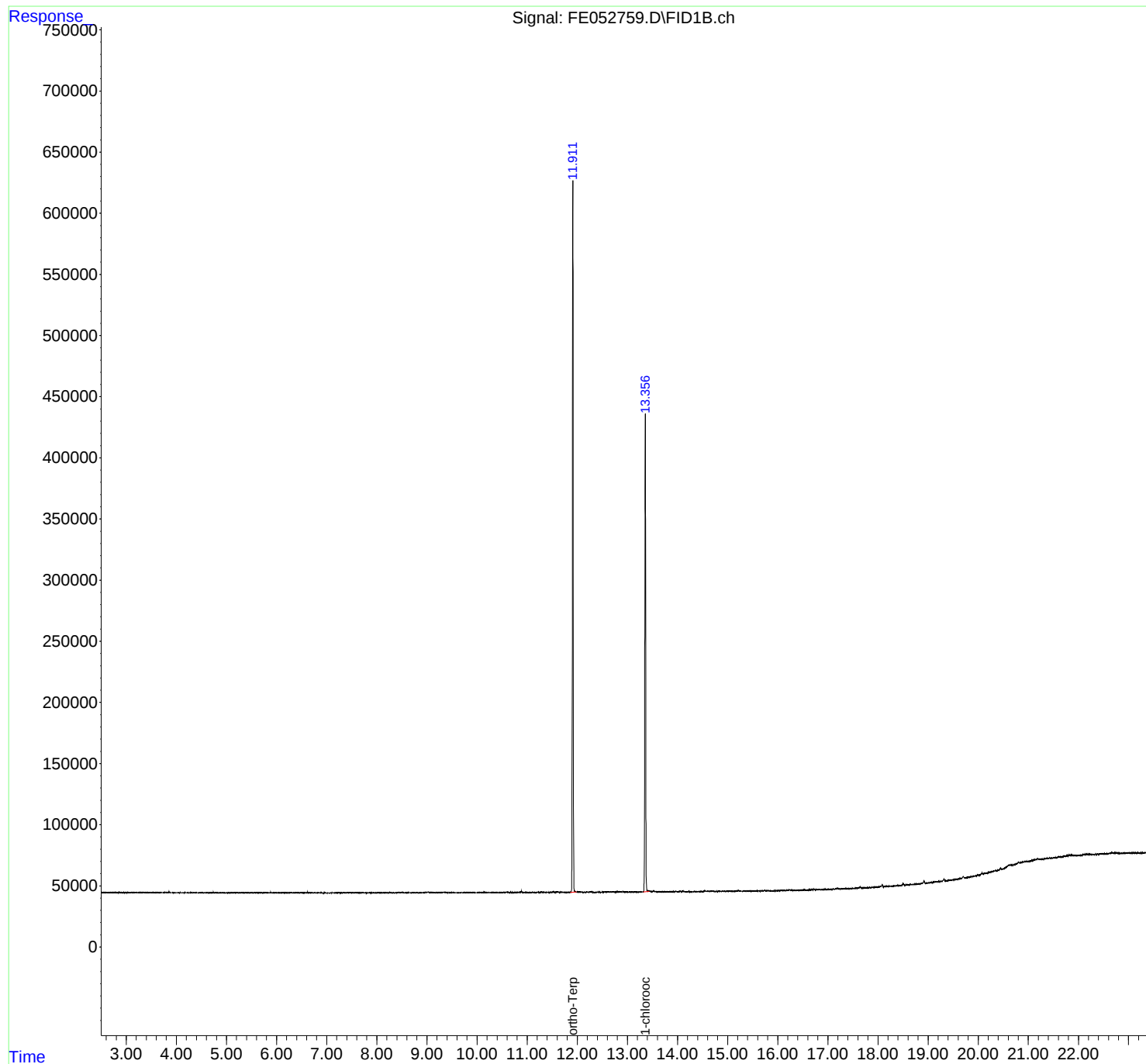
(m)=manual int.

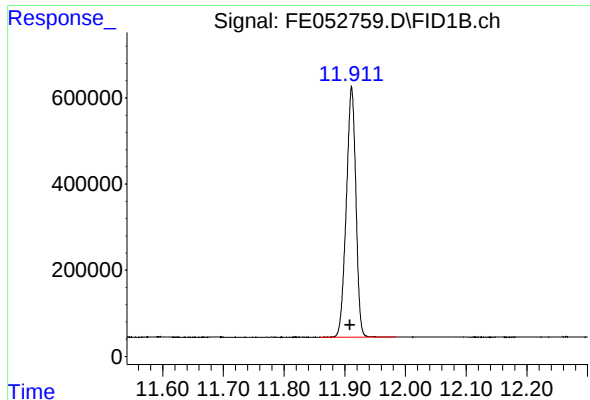
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052759.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 12:08
Operator : YP\AJ
Sample : PB167096BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167096BL

Integration File: autoint1.e
Quant Time: Mar 13 03:54:30 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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

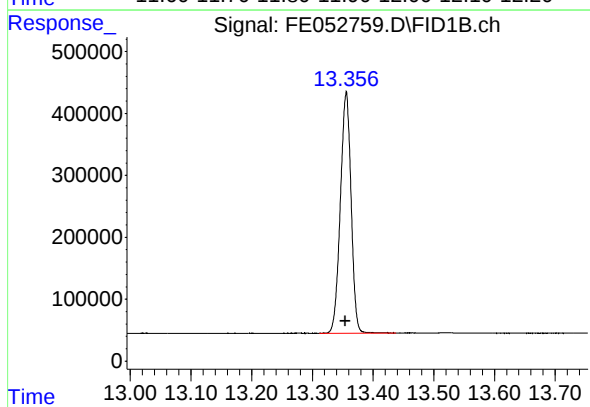




#9 ortho-Terphenyl (SURR)

R.T.: 11.911 min
Delta R.T.: 0.003 min
Response: 6364868
Conc: 37.75 ug/ml

Instrument :
FID_E
ClientSampleId :
PB167096BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.356 min
Delta R.T.: 0.002 min
Response: 4768449
Conc: 39.27 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052759.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 12:08
Sample : PB167096BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.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	11.911	11.858	11.984	BB	578512	6364868	100.00%	57.170%
2	13.356	13.311	13.438	BB	385738	4768449	74.92%	42.830%
Sum of corrected areas:							11133317	

Aliphatic EPH 030325.M Thu Mar 13 05:39:39 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	PB167096BS	SDG No.:	Q1542
Lab Sample ID:	PB167096BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 12:38	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	86.2	E	1	1.72	3.99	mg/kg	FE052760.D
Total EPH	Total EPH	86.2			1.72	3.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	PB167096BS	SDG No.:	Q1542
Lab Sample ID:	PB167096BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052760.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	86.2	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	30.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.6		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.2		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167096BS	Acq On:	12 Mar 2025 12:38
Client Sample ID:	PB167096BS	Operator:	YP\AJ
Data file:	FE052760.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.148	6.790	36927368	236.792	300	ug/ml
Aliphatic C12-C16	6.791	10.243	44013354	289.374	200	ug/ml
Aliphatic C16-C21	10.244	13.621	48577415	331.478	300	ug/ml
Aliphatic C21-C28	13.622	17.293	61991616	435.176	400	ug/ml
Aliphatic C28-C40	17.294	22.210	57981009	454.435	600	ug/ml
Aliphatic EPH	3.148	22.210	249490762	1750		ug/ml
ortho-Terphenyl (SURR)	11.910	11.910	6439185	38.2		ug/ml
1-chlorooctadecane (SURR)	13.354	13.354	4926215	40.57		ug/ml
Aliphatic C9-C28	3.148	17.293	191509753	1290	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052760.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 12:38
 Operator : YP\AJ
 Sample : PB167096BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB167096BS

Integration File: autoint1.e
 Quant Time: Mar 13 03:54:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.910	6439185	38.195 ug/ml
Spiked Amount 50.000		Recovery =	76.39%
12) S 1-chlorooctadecane (S...	13.354	4926215	40.570 ug/ml
Spiked Amount 50.000		Recovery =	81.14%
Target Compounds			
1) T n-Nonane (C9)	3.271	6883916	44.398 ug/ml
2) T n-Decane (C10)	4.521	7190585	45.772 ug/ml
3) T A~Naphthalene (C11.7)	6.226	7861734	46.357 ug/ml
4) T n-Dodecane (C12)	6.693	7242321	46.515 ug/ml
5) T A~2-methylnaphthalene...	7.327	7082526	43.704 ug/ml
6) T n-Tetradecane (C14)	8.531	7163235	47.342 ug/ml
7) T n-Hexadecane (C16)	10.144	6969792	45.588 ug/ml
8) T n-Octadecane (C18)	11.594	6871648	45.166 ug/ml
10) T n-Eicosane (C20)	12.909	6899738	47.527 ug/ml
11) T n-Heneicosane (C21)	13.523	6599453	46.368 ug/ml
13) T n-Docosane (C22)	14.111	6549986	46.026 ug/ml
14) T n-Tetracosane (C24)	15.205	13485479	94.232 ug/ml
15) T n-Hexacosane (C26)	16.245	6431171	45.228 ug/ml
16) T n-Octacosane (C28)	17.194	6484128	45.600 ug/ml
17) T n-Tricontane (C30)	18.087	6494708	43.972 ug/ml
18) T n-Dotriacontane (C32)	18.919	6392577	44.032 ug/ml
19) T n-Tetratriacontane (C34)	19.704	6175646	45.820 ug/ml
20) T n-Hexatriacontane (C36)	20.445	5470963	46.043 ug/ml
21) T n-Octatriacontane (C38)	21.187	4939001	44.521 ug/ml
22) T n-Tetracontane (C40)	22.106	4498182	41.605 ug/ml

(f)=RT Delta > 1/2 Window

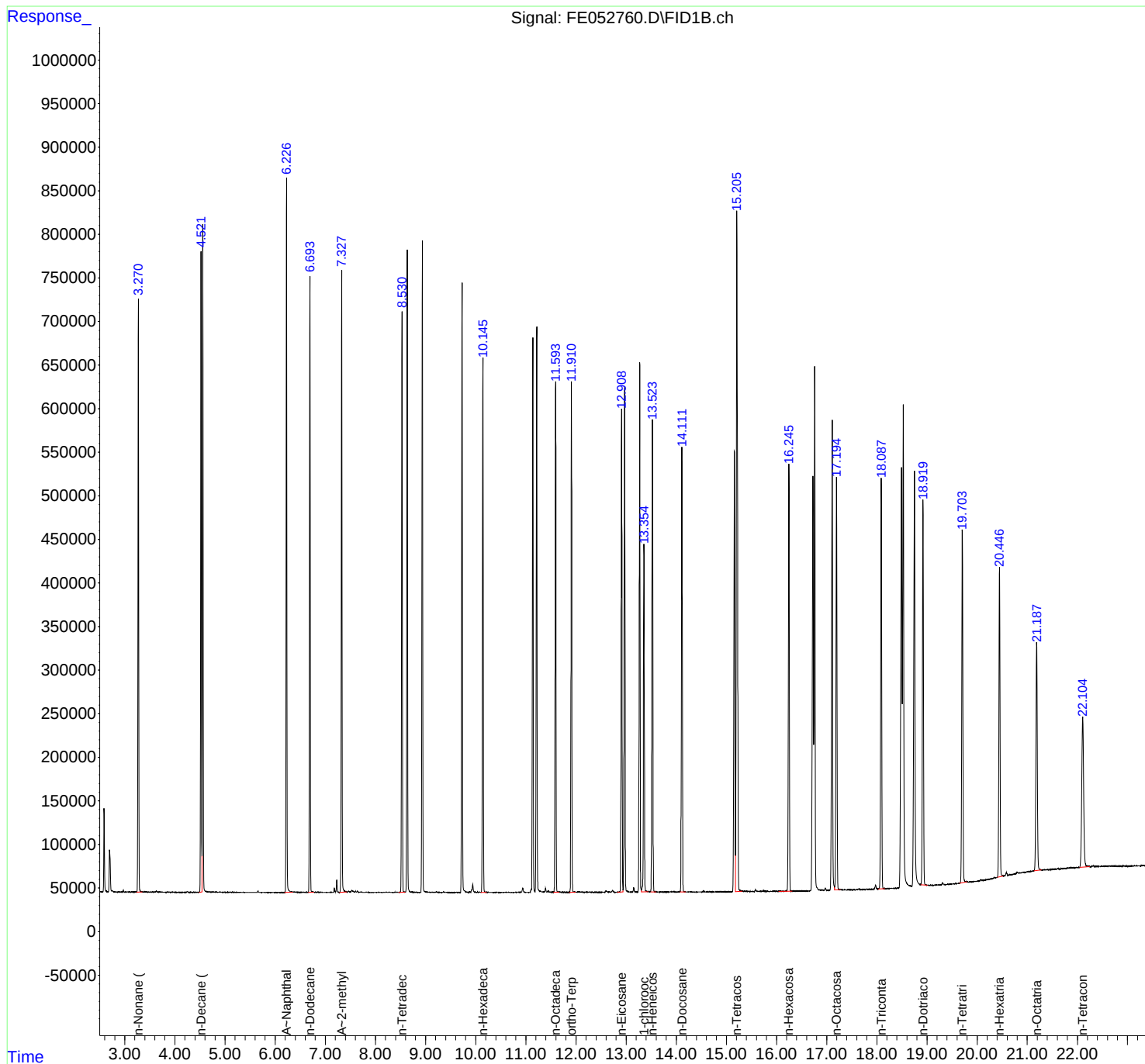
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052760.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 12:38
Operator : YP\AJ
Sample : PB167096BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167096BS

Integration File: autoint1.e
Quant Time: Mar 13 03:54:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052760.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 12:38
 Sample : PB167096BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.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	3.271	3.235	3.351	BB	680912	6883916	51.05%	2.639%
2	4.521	4.481	4.538	BV	734660	7190585	53.32%	2.757%
3	4.556	4.538	4.628	VB	760294	7748812	57.46%	2.971%
4	6.226	6.185	6.351	BB	808612	7861734	58.30%	3.014%
5	6.693	6.658	6.775	BB	710120	7242321	53.70%	2.776%
6	7.327	7.278	7.431	PB	715749	7082526	52.52%	2.715%
7	8.531	8.461	8.595	BB	670369	7163235	53.12%	2.746%
8	8.635	8.605	8.731	BB	735283	7513694	55.72%	2.880%
9	8.937	8.898	9.025	BB	755948	7802146	57.86%	2.991%
10	9.729	9.688	9.818	BB	699719	7481961	55.48%	2.868%
11	10.144	10.101	10.221	BB	613162	6969792	51.68%	2.672%
12	11.141	11.078	11.181	BV	638246	7123434	52.82%	2.731%
13	11.217	11.181	11.338	VB	647424	7124468	52.83%	2.731%
14	11.594	11.548	11.665	BB	584049	6871648	50.96%	2.634%
15	11.910	11.865	11.991	BB	587961	6439185	47.75%	2.468%
16	12.909	12.825	12.937	BV	556257	6899738	51.16%	2.645%
17	12.970	12.937	13.068	VB	584814	6970595	51.69%	2.672%
18	13.270	13.228	13.303	BV	611240	6988079	51.82%	2.679%
19	13.354	13.303	13.441	VB	398119	4926215	36.53%	1.888%
20	13.523	13.485	13.601	BB	543532	6599453	48.94%	2.530%
21	14.111	14.071	14.188	BB	510375	6549986	48.57%	2.511%
22	15.158	15.111	15.178	BV	505499	6936909	51.44%	2.659%
23	15.205	15.178	15.321	VB	776696	13485479	100.00%	5.170%
24	16.245	16.045	16.315	BB	489541	6431171	47.69%	2.465%
25	16.724	16.648	16.740	BV	476719	7269833	53.91%	2.787%
26	16.760	16.740	16.875	VB	608913	7496501	55.59%	2.874%
27	17.108	17.048	17.155	BV	534861	7337609	54.41%	2.813%
28	17.194	17.155	17.275	VB	472937	6484128	48.08%	2.486%
29	18.087	18.021	18.158	BB	472673	6494708	48.16%	2.490%
30	18.490	18.398	18.506	BV	484031	7801253	57.85%	2.991%
31	18.526	18.506	18.688	VB	557968	8282361	61.42%	3.175%
32	18.749	18.688	18.870	BBA	471041	7926318	58.78%	3.039%
33	18.919	18.871	19.011	BB	441179	6392577	47.40%	2.451%
34	19.704	19.651	19.805	BB	405318	6175646	45.79%	2.367%
35	20.446	20.401	20.521	BB	356443	5470963	40.57%	2.097%
36	21.187	21.131	21.285	BB	262557	4939001	36.62%	1.893%

rters
37 22.106 22.041 22.251 BB 172445 4498182 33.36% 1.724%
Sum of corrected areas: 260856161

Aliphatic EPH 030325.M Thu Mar 13 05:40:07 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	PB167096BSD	SDG No.:	Q1542
Lab Sample ID:	PB167096BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 13:08	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	85.1	E	1	1.72	3.99	mg/kg	FE052761.D
Total EPH	Total EPH	85.1			1.72	3.99	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	PB167096BSD	SDG No.:	Q1542
Lab Sample ID:	PB167096BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052761.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	85.1	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	30.6		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.8		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.5		40 - 140	77%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB167096BSD	Acq On:	12 Mar 2025 13:08
Client Sample ID:	PB167096BSD	Operator:	YP\AJ
Data file:	FE052761.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.148	6.790	37018209	237.375	300	ug/ml
Aliphatic C12-C16	6.791	10.243	43652401	287.001	200	ug/ml
Aliphatic C16-C21	10.244	13.621	47761092	325.907	300	ug/ml
Aliphatic C21-C28	13.622	17.293	60921196	427.662	400	ug/ml
Aliphatic C28-C40	17.294	22.210	58558991	458.965	600	ug/ml
Aliphatic EPH	3.148	22.210	247911889	1740		ug/ml
ortho-Terphenyl (SURR)	11.909	11.909	6482531	38.45		ug/ml
1-chlorooctadecane (SURR)	13.353	13.353	4958357	40.83		ug/ml
Aliphatic C9-C28	3.148	17.293	189352898	1280	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052761.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 13:08
 Operator : YP\AJ
 Sample : PB167096BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB167096BSD

Integration File: autoint1.e
 Quant Time: Mar 13 03:55:17 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.909	6482531	38.452 ug/ml
Spiked Amount 50.000		Recovery =	76.90%
12) S 1-chlorooctadecane (S...	13.353	4958357	40.834 ug/ml
Spiked Amount 50.000		Recovery =	81.67%
Target Compounds			
1) T n-Nonane (C9)	3.271	6896044	44.476 ug/ml
2) T n-Decane (C10)	4.521	7221106	45.966 ug/ml
3) T A~Naphthalene (C11.7)	6.226	7863001	46.364 ug/ml
4) T n-Dodecane (C12)	6.693	7260973	46.635 ug/ml
5) T A~2-methylnaphthalene...	7.327	7071061	43.633 ug/ml
6) T n-Tetradecane (C14)	8.529	7132460	47.138 ug/ml
7) T n-Hexadecane (C16)	10.143	6898796	45.123 ug/ml
8) T n-Octadecane (C18)	11.593	6783367	44.586 ug/ml
10) T n-Eicosane (C20)	12.908	6796643	46.817 ug/ml
11) T n-Heneicosane (C21)	13.522	6492340	45.615 ug/ml
13) T n-Docosane (C22)	14.110	6436584	45.230 ug/ml
14) T n-Tetracosane (C24)	15.204	13240859	92.523 ug/ml
15) T n-Hexacosane (C26)	16.243	6310354	44.378 ug/ml
16) T n-Octacosane (C28)	17.194	6377640	44.851 ug/ml
17) T n-Tricontane (C30)	18.085	6437149	43.582 ug/ml
18) T n-Dotriacontane (C32)	18.917	6403115	44.105 ug/ml
19) T n-Tetratriacontane (C34)	19.703	6251755	46.385 ug/ml
20) T n-Hexatriacontane (C36)	20.445	5629489	47.377 ug/ml
21) T n-Octatriacontane (C38)	21.185	5212794	46.989 ug/ml
22) T n-Tetracontane (C40)	22.106	4864640	44.995 ug/ml

(f)=RT Delta > 1/2 Window

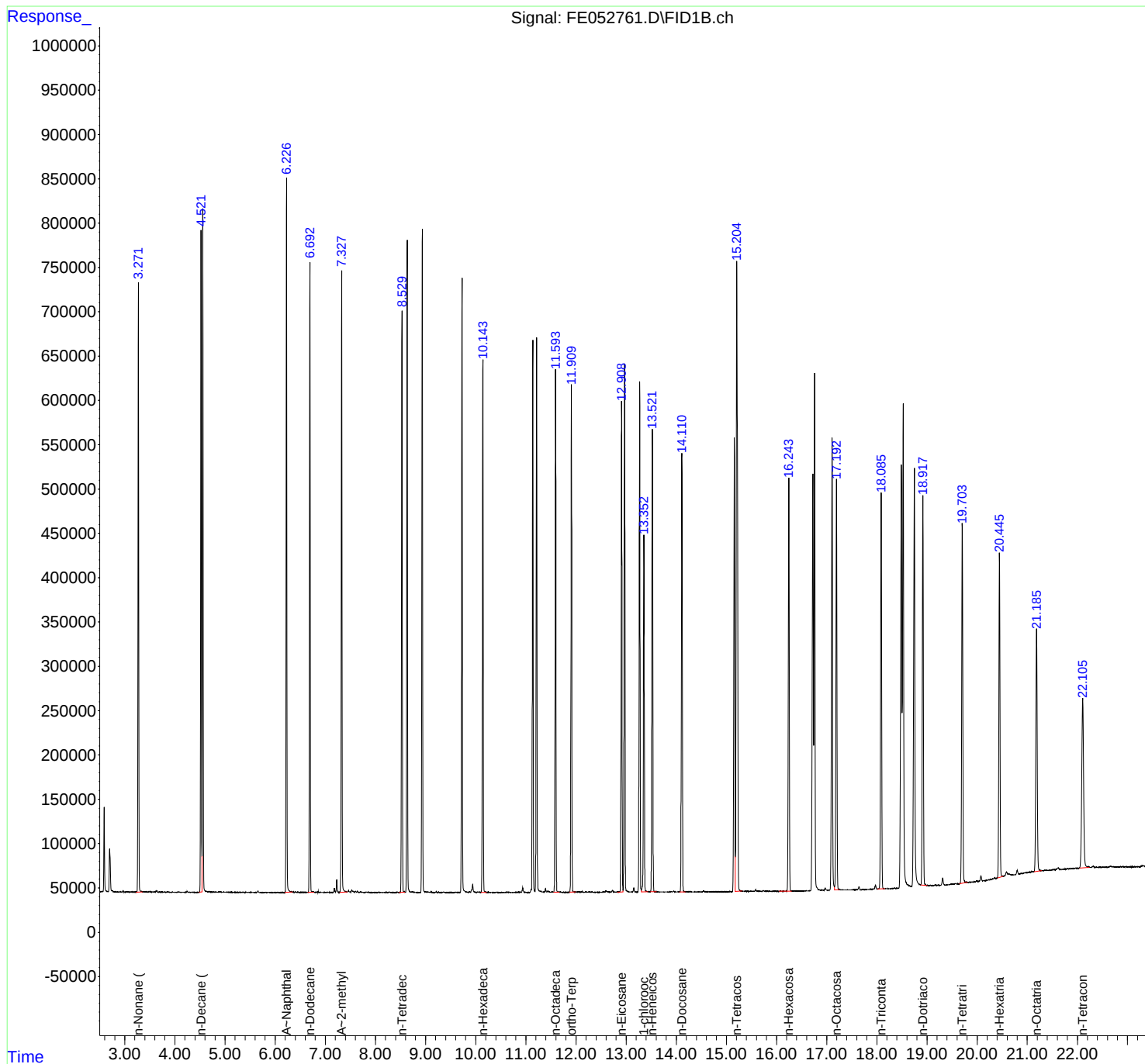
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052761.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 13:08
Operator : YP\AJ
Sample : PB167096BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB167096BSD

Integration File: autoint1.e
Quant Time: Mar 13 03:55:17 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052761.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 13:08
Sample : PB167096BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.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	3.271	3.228	3.358	BB	687252	6896044	52.08%	2.659%
2	4.521	4.481	4.538	BV	746343	7221106	54.54%	2.784%
3	4.556	4.538	4.631	VB	766439	7777085	58.74%	2.999%
4	6.226	6.188	6.348	BB	796312	7863001	59.38%	3.032%
5	6.693	6.651	6.771	BB	704347	7260973	54.84%	2.800%
6	7.327	7.284	7.441	PB	705548	7071061	53.40%	2.726%
7	8.529	8.468	8.591	BB	649770	7132460	53.87%	2.750%
8	8.634	8.594	8.734	BB	740397	7448888	56.26%	2.872%
9	8.934	8.894	9.011	BB	749010	7716715	58.28%	2.975%
10	9.727	9.641	9.828	BB	694918	7384481	55.77%	2.847%
11	10.143	10.104	10.214	BB	606450	6898796	52.10%	2.660%
12	11.140	11.071	11.180	BV	628944	7000552	52.87%	2.699%
13	11.216	11.180	11.328	VB	618430	6997080	52.84%	2.698%
14	11.593	11.551	11.668	BB	589342	6783367	51.23%	2.615%
15	11.909	11.868	11.984	BB	564551	6482531	48.96%	2.500%
16	12.908	12.824	12.936	BV	552651	6796643	51.33%	2.621%
17	12.969	12.936	13.061	VB	590536	6836756	51.63%	2.636%
18	13.269	13.224	13.302	BV	574478	6854354	51.77%	2.643%
19	13.353	13.302	13.438	VB	401320	4958357	37.45%	1.912%
20	13.522	13.481	13.598	BB	520883	6492340	49.03%	2.503%
21	14.110	14.068	14.184	BB	496707	6436584	48.61%	2.482%
22	15.156	15.108	15.177	BV	512637	6826223	51.55%	2.632%
23	15.204	15.177	15.314	VB	708685	13240859	100.00%	5.105%
24	16.243	16.044	16.304	BB	465809	6310354	47.66%	2.433%
25	16.723	16.654	16.739	BV	473630	7131575	53.86%	2.750%
26	16.758	16.739	16.874	VB	585009	7387976	55.80%	2.849%
27	17.106	17.044	17.154	BV	515097	7209985	54.45%	2.780%
28	17.194	17.154	17.261	VB	464890	6377640	48.17%	2.459%
29	18.085	18.014	18.161	BB	448452	6437149	48.62%	2.482%
30	18.488	18.288	18.504	BV	476683	7776148	58.73%	2.998%
31	18.525	18.504	18.691	VV	545212	8138108	61.46%	3.138%
32	18.747	18.691	18.871	PBA	472905	7845793	59.25%	3.025%
33	18.917	18.871	19.008	BB	437574	6403115	48.36%	2.469%
34	19.703	19.651	19.808	BB	407728	6251755	47.22%	2.411%
35	20.445	20.401	20.521	BB	364679	5629489	42.52%	2.171%
36	21.185	21.131	21.291	BB	273255	5212794	39.37%	2.010%

						rteres		
37	22.106	22.041	22.241	BB	191654	4864640	36.74%	1.876%
					Sum of corrected areas:		259352774	

Aliphatic EPH 030325.M Thu Mar 13 05:41:08 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	5MS	SDG No.:	Q1542
Lab Sample ID:	Q1542-07MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 16:08	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	107	E	1	1.99	4.63	mg/kg	FE052767.D
Total EPH	Total EPH	107			1.99	4.63	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	5MS	SDG No.:	Q1542
Lab Sample ID:	Q1542-07MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052767.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	107	E	1.99	4.63	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	78.1	E	2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.6		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.2		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-07MS	Acq On:	12 Mar 2025 16:08
Client Sample ID:	5MS	Operator:	YP\AJ
Data file:	FE052767.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	3.148	6.790	35514024	227.729	300	ug/ml
Aliphatic C12-C16	6.791	10.243	42736755	280.981	200	ug/ml
Aliphatic C16-C21	10.244	13.621	49074176	334.867	300	ug/ml
Aliphatic C21-C28	13.622	17.293	77215930	542.049	400	ug/ml
Aliphatic C28-C40	17.294	22.210	129368611	1010	600	ug/ml
Aliphatic EPH	3.148	22.210	333909496	2400		ug/ml
ortho-Terphenyl (SURR)	11.910	11.910	5091163	30.2		ug/ml
1-chlorooctadecane (SURR)	13.355	13.355	3959468	32.61		ug/ml
Aliphatic C9-C28	3.148	17.293	204540885	1390	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052767.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 16:08
 Operator : YP\AJ
 Sample : Q1542-07MS
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 SMS

Integration File: autoint1.e
 Quant Time: Mar 13 03:57:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.910	5091163	30.199 ug/ml
Spiked Amount 50.000		Recovery =	60.40%
12) S 1-chlorooctadecane (S...	13.355	3959468	32.608 ug/ml
Spiked Amount 50.000		Recovery =	65.22%
Target Compounds			
1) T n-Nonane (C9)	3.269	6602093	42.580 ug/ml
2) T n-Decane (C10)	4.521	6754648	42.997 ug/ml
3) T A~Naphthalene (C11.7)	6.228	7240544	42.694 ug/ml
4) T n-Dodecane (C12)	6.694	6686549	42.945 ug/ml
5) T A~2-methylnaphthalene...	7.328	6514614	40.199 ug/ml
6) T n-Tetradecane (C14)	8.531	6569796	43.420 ug/ml
7) T n-Hexadecane (C16)	10.145	6362729	41.617 ug/ml
8) T n-Octadecane (C18)	11.594	6278337	41.267 ug/ml
10) T n-Eicosane (C20)	12.910	6347342	43.722 ug/ml
11) T n-Heneicosane (C21)	13.524	6069153	42.642 ug/ml
13) T n-Docosane (C22)	14.113	6080172	42.725 ug/ml
14) T n-Tetracosane (C24)	15.208	12760531	89.167 ug/ml
15) T n-Hexacosane (C26)	16.247	6263808	44.051 ug/ml
16) T n-Octacosane (C28)	17.199	6332388	44.533 ug/ml
17) T n-Tricontane (C30)	18.091	6229368	42.176 ug/ml
18) T n-Dotriacontane (C32)	18.923	6218547	42.834 ug/ml
19) T n-Tetratriacontane (C34)	19.710	6314078	46.848 ug/ml
20) T n-Hexatriacontane (C36)	20.452	5928545	49.894 ug/ml
21) T n-Octatriacontane (C38)	21.195	6118868	55.157 ug/ml
22) T n-Tetracontane (C40)	22.119	6901903	63.838 ug/ml

(f)=RT Delta > 1/2 Window

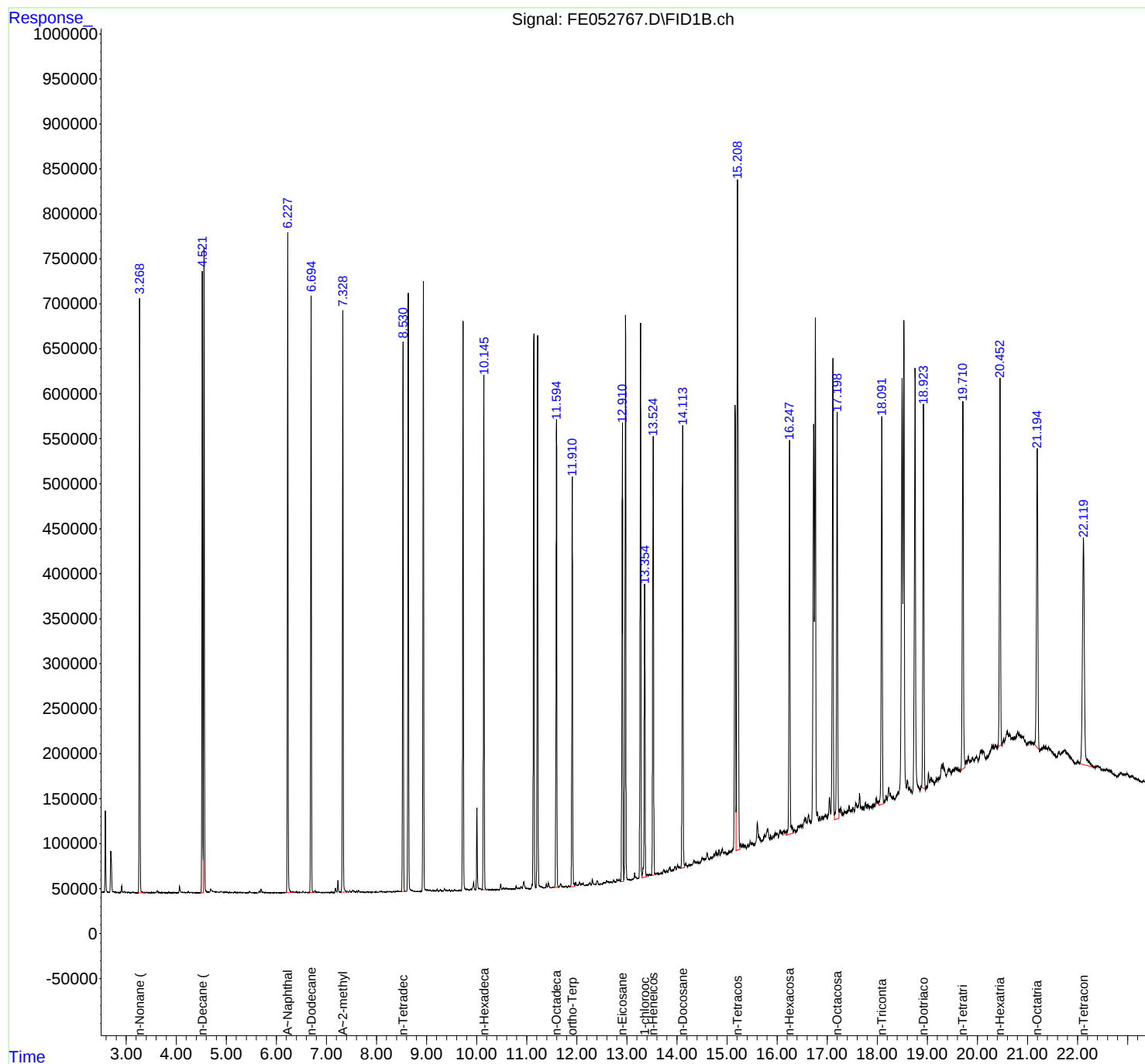
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052767.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 16:08
Operator : YP\AJ
Sample : Q1542-07MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5MS

Integration File: autoint1.e
Quant Time: Mar 13 03:57:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052767.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 16:08
Sample : Q1542-07MS
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.910	2.838	2.947	BV	7219	77666	0.60%	0.023%
2	2.966	2.947	2.984	VV	1565	16444	0.13%	0.005%
3	3.005	2.984	3.027	VV	574	8969	0.07%	0.003%
4	3.049	3.027	3.104	VV	393	9903	0.08%	0.003%
5	3.136	3.104	3.176	PV	495	9545	0.07%	0.003%
6	3.186	3.176	3.216	VV	97	1284	0.01%	0.000%
7	3.269	3.216	3.367	PV	656446	6613006	51.01%	1.927%
8	3.381	3.367	3.401	VV	375	6904	0.05%	0.002%
9	3.411	3.401	3.429	VV	661	7083	0.05%	0.002%
10	3.438	3.429	3.460	VV	359	4508	0.03%	0.001%
11	3.482	3.460	3.498	VV	384	6195	0.05%	0.002%
12	3.511	3.498	3.528	VV	340	4478	0.03%	0.001%
13	3.547	3.528	3.563	VV	561	6149	0.05%	0.002%
14	3.579	3.563	3.591	VV	442	4937	0.04%	0.001%
15	3.619	3.591	3.695	VV	1946	40605	0.31%	0.012%
16	3.713	3.695	3.740	VV	491	6970	0.05%	0.002%
17	3.750	3.740	3.811	VV	279	5847	0.05%	0.002%
18	3.850	3.811	3.868	VV	537	9717	0.07%	0.003%
19	3.873	3.868	3.891	VV	283	2764	0.02%	0.001%
20	3.900	3.891	3.921	VV	174	1551	0.01%	0.000%
21	3.951	3.921	3.961	PV	347	4222	0.03%	0.001%
22	3.973	3.961	4.037	VV	365	7695	0.06%	0.002%
23	4.067	4.037	4.118	VV	7414	99520	0.77%	0.029%
24	4.129	4.118	4.141	VV	564	7155	0.06%	0.002%
25	4.161	4.141	4.207	VV	537	14709	0.11%	0.004%
26	4.242	4.207	4.267	VV	1296	19717	0.15%	0.006%
27	4.286	4.267	4.339	VV	845	17126	0.13%	0.005%
28	4.351	4.339	4.404	VV	237	6243	0.05%	0.002%
29	4.414	4.404	4.441	VV	163	2769	0.02%	0.001%
30	4.460	4.441	4.479	VV	128	2256	0.02%	0.001%
31	4.521	4.479	4.538	VV	689960	6759797	52.15%	1.970%
32	4.556	4.538	4.656	VV	712191	7236950	55.83%	2.109%
33	4.689	4.656	4.787	VV	4210	139917	1.08%	0.041%
34	4.801	4.787	4.815	VV	1216	18924	0.15%	0.006%
35	4.827	4.815	4.865	VV	1099	26383	0.20%	0.008%
36	4.893	4.865	4.961	VV	1874	54707	0.42%	0.016%

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37	4.982	4.961	5.007	VV	689	17026	0.13%	0.005%
38	5.027	5.007	5.053	VV	731	16128	0.12%	0.005%
39	5.068	5.053	5.090	VV	523	9536	0.07%	0.003%
40	5.102	5.090	5.118	VV	357	5280	0.04%	0.002%
41	5.161	5.118	5.207	VV	688	22698	0.18%	0.007%
42	5.225	5.207	5.257	VV	423	10144	0.08%	0.003%
43	5.276	5.257	5.291	VV	352	6026	0.05%	0.002%
44	5.304	5.291	5.324	VV	388	5660	0.04%	0.002%
45	5.337	5.324	5.391	VV	406	10141	0.08%	0.003%
46	5.402	5.391	5.418	VV	183	2439	0.02%	0.001%
47	5.433	5.418	5.440	VV	192	2111	0.02%	0.001%
48	5.463	5.440	5.521	VV	1993	30320	0.23%	0.009%
49	5.532	5.521	5.633	VV	265	6873	0.05%	0.002%
50	5.658	5.633	5.676	PV	2073	23922	0.18%	0.007%
51	5.695	5.676	5.726	VV	4146	50669	0.39%	0.015%
52	5.733	5.726	5.755	VV	562	8042	0.06%	0.002%
53	5.773	5.755	5.808	VV	458	9685	0.07%	0.003%
54	5.819	5.808	5.828	VV	203	2279	0.02%	0.001%
55	5.845	5.828	5.871	VV	320	5856	0.05%	0.002%
56	5.918	5.871	5.956	VV	264	9306	0.07%	0.003%
57	5.974	5.956	6.019	VV	257	7053	0.05%	0.002%
58	6.046	6.019	6.060	VV	216	3334	0.03%	0.001%
59	6.076	6.060	6.095	VV	120	1766	0.01%	0.001%
60	6.104	6.095	6.118	VV	105	1130	0.01%	0.000%
61	6.134	6.118	6.155	VV	195	3162	0.02%	0.001%
62	6.228	6.155	6.324	PV	735448	7260554	56.01%	2.116%
63	6.334	6.324	6.364	VV	891	15147	0.12%	0.004%
64	6.403	6.364	6.438	VV	1056	27190	0.21%	0.008%
65	6.455	6.438	6.474	VV	541	8613	0.07%	0.003%
66	6.486	6.474	6.504	VV	393	5828	0.04%	0.002%
67	6.530	6.504	6.564	VV	1642	24990	0.19%	0.007%
68	6.582	6.564	6.597	VV	433	7239	0.06%	0.002%
69	6.610	6.597	6.640	VV	356	6980	0.05%	0.002%
70	6.694	6.640	6.750	VV	665946	6706371	51.73%	1.955%
71	6.772	6.750	6.827	VV	2464	40438	0.31%	0.012%
72	6.846	6.827	6.874	VV	821	12943	0.10%	0.004%
73	6.880	6.874	6.908	VV	269	3545	0.03%	0.001%
74	6.917	6.908	6.934	VV	143	1211	0.01%	0.000%
75	6.978	6.934	6.997	VV	223	4968	0.04%	0.001%
76	7.022	6.997	7.071	VV	286	5291	0.04%	0.002%
77	7.105	7.071	7.134	PV	388	7487	0.06%	0.002%
78	7.182	7.134	7.207	VV	4910	58614	0.45%	0.017%
79	7.230	7.207	7.283	VV	13647	158674	1.22%	0.046%
80	7.328	7.283	7.401	VV	644842	6528692	50.36%	1.903%
81	7.413	7.401	7.444	VV	1303	24872	0.19%	0.007%
82	7.466	7.444	7.485	VV	2224	29201	0.23%	0.009%
83	7.528	7.485	7.544	VV	2560	53023	0.41%	0.015%
84	7.553	7.544	7.580	VV	1564	20782	0.16%	0.006%
85	7.605	7.580	7.624	VV	1428	21762	0.17%	0.006%
86	7.642	7.624	7.664	VV	2459	29733	0.23%	0.009%
87	7.700	7.664	7.753	VV	750	22043	0.17%	0.006%
88	7.770	7.753	7.790	VV	208	3220	0.02%	0.001%
89	7.816	7.790	7.848	VV	1049	14266	0.11%	0.004%

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90	7.867	7.848	7.888	VV	277	4081	0.03%	0.001%
91	7.928	7.888	7.961	VV	574	8069	0.06%	0.002%
92	7.984	7.961	8.000	VV	296	2264	0.02%	0.001%
93	8.017	8.000	8.028	PV	122	1185	0.01%	0.000%
94	8.098	8.028	8.121	VV	1026	28641	0.22%	0.008%
95	8.130	8.121	8.160	VV	425	6558	0.05%	0.002%
96	8.173	8.160	8.198	VV	245	3408	0.03%	0.001%
97	8.218	8.198	8.237	VV	916	11882	0.09%	0.003%
98	8.277	8.237	8.308	VV	793	17424	0.13%	0.005%
99	8.346	8.308	8.364	VV	822	13362	0.10%	0.004%
100	8.422	8.364	8.463	VV	1029	37008	0.29%	0.011%
101	8.475	8.463	8.484	VV	697	7498	0.06%	0.002%
102	8.531	8.484	8.574	VV	609893	6601498	50.92%	1.924%
103	8.635	8.574	8.703	VV	662431	6924464	53.42%	2.018%
104	8.715	8.703	8.738	VV	1346	22203	0.17%	0.006%
105	8.750	8.738	8.807	VV	805	20026	0.15%	0.006%
106	8.817	8.807	8.841	VV	250	3041	0.02%	0.001%
107	8.859	8.841	8.867	PV	213	1557	0.01%	0.000%
108	8.891	8.867	8.900	VV	584	7505	0.06%	0.002%
109	8.937	8.900	8.973	VV	681858	7132815	55.02%	2.079%
110	8.985	8.973	9.038	VV	2205	65328	0.50%	0.019%
111	9.070	9.038	9.108	VV	1601	48175	0.37%	0.014%
112	9.124	9.108	9.141	VV	1176	15818	0.12%	0.005%
113	9.154	9.141	9.164	VV	672	8340	0.06%	0.002%
114	9.212	9.164	9.241	VV	2475	47335	0.37%	0.014%
115	9.276	9.241	9.314	VV	1894	33270	0.26%	0.010%
116	9.359	9.314	9.424	VV	2537	57635	0.44%	0.017%
117	9.449	9.424	9.478	VV	1287	17151	0.13%	0.005%
118	9.507	9.478	9.528	VV	447	6705	0.05%	0.002%
119	9.561	9.528	9.580	VV	1513	20554	0.16%	0.006%
120	9.594	9.580	9.626	VV	494	7895	0.06%	0.002%
121	9.647	9.626	9.678	VV	706	12805	0.10%	0.004%
122	9.730	9.678	9.793	VV	637041	6871462	53.01%	2.003%
123	9.807	9.793	9.850	VV	1600	39898	0.31%	0.012%
124	9.880	9.850	9.900	VV	1538	31940	0.25%	0.009%
125	9.942	9.900	9.981	VV	9276	161564	1.25%	0.047%
126	10.007	9.981	10.041	VV	91420	975166	7.52%	0.284%
127	10.050	10.041	10.064	VV	2196	26644	0.21%	0.008%
128	10.077	10.064	10.109	VV	2053	37577	0.29%	0.011%
129	10.145	10.109	10.201	VV	566815	6396677	49.34%	1.864%
130	10.244	10.201	10.280	VV	842	25171	0.19%	0.007%
131	10.314	10.280	10.355	PV	795	17324	0.13%	0.005%
132	10.388	10.355	10.407	VV	565	10165	0.08%	0.003%
133	10.419	10.407	10.443	VV	400	4502	0.03%	0.001%
134	10.482	10.443	10.509	VV	6387	79818	0.62%	0.023%
135	10.532	10.509	10.555	VV	2095	34884	0.27%	0.010%
136	10.589	10.555	10.601	VV	1494	29239	0.23%	0.009%
137	10.617	10.601	10.642	VV	1353	23730	0.18%	0.007%
138	10.658	10.642	10.671	VV	792	10526	0.08%	0.003%
139	10.679	10.671	10.706	VV	905	10109	0.08%	0.003%
140	10.730	10.706	10.754	VV	714	12183	0.09%	0.004%
141	10.789	10.754	10.828	VV	3581	62407	0.48%	0.018%

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142	10.840	10.828	10.861	VV	1442	19486	0.15%	0.006%
143	10.885	10.861	10.912	VV	2910	51367	0.40%	0.015%
144	10.942	10.912	11.058	VV	7973	177920	1.37%	0.052%
145	11.143	11.058	11.183	PV	610714	6979412	53.84%	2.034%
146	11.218	11.183	11.271	VV	608852	6609924	50.99%	1.926%
147	11.285	11.271	11.327	VV	2059	50222	0.39%	0.015%
148	11.338	11.327	11.354	VV	723	10530	0.08%	0.003%
149	11.394	11.354	11.414	VV	4767	67395	0.52%	0.020%
150	11.434	11.414	11.476	VV	5626	83769	0.65%	0.024%
151	11.523	11.476	11.538	VV	1043	21822	0.17%	0.006%
152	11.594	11.538	11.631	VV	522156	6301983	48.61%	1.837%
153	11.680	11.631	11.704	VV	4269	89919	0.69%	0.026%
154	11.716	11.704	11.733	VV	1694	20528	0.16%	0.006%
155	11.747	11.733	11.768	VV	904	12284	0.09%	0.004%
156	11.785	11.768	11.813	VV	1673	23854	0.18%	0.007%
157	11.837	11.813	11.860	PV	2017	27732	0.21%	0.008%
158	11.910	11.860	11.961	VV	460485	5109486	39.42%	1.489%
159	11.978	11.961	12.002	VV	5144	71926	0.55%	0.021%
160	12.059	12.002	12.078	VV	4839	106871	0.82%	0.031%
161	12.094	12.078	12.108	VV	3038	39014	0.30%	0.011%
162	12.125	12.108	12.161	VV	3459	55861	0.43%	0.016%
163	12.205	12.161	12.222	VV	1128	25347	0.20%	0.007%
164	12.265	12.222	12.288	VV	2871	65961	0.51%	0.019%
165	12.310	12.288	12.338	VV	6584	90940	0.70%	0.027%
166	12.349	12.338	12.378	VV	1265	21516	0.17%	0.006%
167	12.406	12.378	12.439	VV	4775	87006	0.67%	0.025%
168	12.482	12.439	12.504	PV	1019	18693	0.14%	0.005%
169	12.537	12.504	12.554	PV	1637	33176	0.26%	0.010%
170	12.565	12.554	12.578	VV	1439	18980	0.15%	0.006%
171	12.597	12.578	12.615	VV	3721	57482	0.44%	0.017%
172	12.624	12.615	12.665	VV	2151	44221	0.34%	0.013%
173	12.685	12.665	12.708	VV	1194	24355	0.19%	0.007%
174	12.735	12.708	12.778	VV	3170	54351	0.42%	0.016%
175	12.802	12.778	12.819	VV	3856	48881	0.38%	0.014%
176	12.849	12.819	12.869	VV	3166	60755	0.47%	0.018%
177	12.910	12.869	12.939	VV	508792	6349360	48.98%	1.850%
178	12.972	12.939	13.044	VV	622340	7381471	56.94%	2.151%
179	13.057	13.044	13.081	VV	749	11910	0.09%	0.003%
180	13.104	13.081	13.118	PV	1195	14398	0.11%	0.004%
181	13.154	13.118	13.216	VV	7378	134007	1.03%	0.039%
182	13.272	13.216	13.302	VV	612256	7120297	54.93%	2.075%
183	13.355	13.302	13.386	VV	327721	3977894	30.69%	1.159%
184	13.405	13.386	13.424	VV	3068	51583	0.40%	0.015%
185	13.443	13.424	13.486	VV	2458	64005	0.49%	0.019%
186	13.524	13.486	13.582	VV	486888	6114443	47.17%	1.782%
187	13.607	13.582	13.644	VV	1545	39161	0.30%	0.011%
188	13.665	13.644	13.675	VV	1118	12488	0.10%	0.004%
189	13.689	13.675	13.707	VV	1339	13287	0.10%	0.004%
190	13.733	13.707	13.772	PV	3716	81185	0.63%	0.024%
191	13.795	13.772	13.817	VV	1792	30023	0.23%	0.009%
192	13.859	13.817	13.886	VV	5370	114935	0.89%	0.033%
193	13.900	13.886	13.911	VV	853	11028	0.09%	0.003%
194	13.965	13.911	13.986	VV	4346	88336	0.68%	0.026%

					rteres			
195	14.010	13.986	14.071	VV	5586	141413	1.09%	0.041%
196	14.113	14.071	14.154	VV	491189	6109831	47.13%	1.781%
197	14.175	14.154	14.218	VV	4538	100872	0.78%	0.029%
198	14.255	14.218	14.271	VV	2098	46814	0.36%	0.014%
199	14.345	14.271	14.371	VV	5376	164278	1.27%	0.048%
200	14.410	14.371	14.431	VV	3166	87300	0.67%	0.025%
201	14.445	14.431	14.458	VV	1858	25182	0.19%	0.007%
202	14.501	14.458	14.541	VV	5710	188556	1.45%	0.055%
203	14.555	14.541	14.565	VV	4297	59981	0.46%	0.017%
204	14.601	14.565	14.636	VV	9593	237295	1.83%	0.069%
205	14.676	14.636	14.693	VV	4665	103649	0.80%	0.030%
206	14.707	14.693	14.716	VV	3578	45661	0.35%	0.013%
207	14.738	14.716	14.753	VV	6749	115411	0.89%	0.034%
208	14.775	14.753	14.791	VV	8452	153500	1.18%	0.045%
209	14.801	14.791	14.820	VV	5987	93398	0.72%	0.027%
210	14.839	14.820	14.860	VV	9822	159760	1.23%	0.047%
211	14.906	14.860	14.938	VV	10337	309109	2.38%	0.090%
212	14.961	14.938	14.984	VV	5839	136646	1.05%	0.040%
213	14.992	14.984	15.010	VV	3869	52447	0.40%	0.015%
214	15.029	15.010	15.037	VV	4458	59368	0.46%	0.017%
215	15.075	15.037	15.090	VV	5236	141455	1.09%	0.041%
216	15.161	15.090	15.181	VV	498873	7001443	54.01%	2.041%
217	15.208	15.181	15.261	VV	743548	12963181	100.00%	3.778%
218	15.270	15.261	15.300	VV	9577	199972	1.54%	0.058%
219	15.317	15.300	15.336	VV	9067	167386	1.29%	0.049%
220	15.358	15.336	15.387	VV	7570	184138	1.42%	0.054%
221	15.417	15.387	15.438	VV	7798	172632	1.33%	0.050%
222	15.463	15.438	15.484	VV	10273	217872	1.68%	0.063%
223	15.500	15.484	15.525	VV	7949	172133	1.33%	0.050%
224	15.535	15.525	15.551	VV	5957	88845	0.69%	0.026%
225	15.604	15.551	15.681	VV	28993	1036309	7.99%	0.302%
226	15.752	15.681	15.774	VV	12960	538638	4.16%	0.157%
227	15.811	15.774	15.853	VV	19413	654550	5.05%	0.191%
228	15.873	15.853	15.897	VV	10774	217970	1.68%	0.064%
229	15.921	15.897	15.937	VV	9711	196354	1.51%	0.057%
230	15.970	15.937	15.981	VV	11548	272193	2.10%	0.079%
231	15.998	15.981	16.031	VV	11343	295633	2.28%	0.086%
232	16.066	16.031	16.096	VV	13610	443393	3.42%	0.129%
233	16.136	16.096	16.154	VV	12332	383432	2.96%	0.112%
234	16.167	16.154	16.181	VV	11008	168868	1.30%	0.049%
235	16.247	16.181	16.329	VV	444321	6861502	52.93%	2.000%
236	16.345	16.329	16.362	VV	10095	185618	1.43%	0.054%
237	16.375	16.362	16.394	VV	8904	154665	1.19%	0.045%
238	16.423	16.394	16.438	VV	13357	299232	2.31%	0.087%
239	16.473	16.438	16.487	VV	13245	375221	2.89%	0.109%
240	16.500	16.487	16.514	VV	12968	194812	1.50%	0.057%
241	16.565	16.514	16.597	VV	20479	807716	6.23%	0.235%
242	16.625	16.597	16.674	VV	22377	799433	6.17%	0.233%
243	16.730	16.674	16.746	VV	454205	7883224	60.81%	2.298%
244	16.763	16.746	16.792	VV	578652	7293165	56.26%	2.126%
245	16.803	16.792	16.838	VV	23040	492013	3.80%	0.143%
246	16.853	16.838	16.875	VV	17382	338714	2.61%	0.099%

rteres								
247	16.893	16.875	16.903	VV	16718	251986	1.94%	0.073%
248	16.909	16.903	16.927	VV	15572	217661	1.68%	0.063%
249	16.970	16.927	16.997	VV	17941	665380	5.13%	0.194%
250	17.045	16.997	17.071	VV	35875	980677	7.57%	0.286%
251	17.113	17.071	17.146	VV	527717	7640689	58.94%	2.227%
252	17.199	17.146	17.235	VV	459853	6852803	52.86%	1.997%
253	17.247	17.235	17.259	VV	18570	253341	1.95%	0.074%
254	17.274	17.259	17.298	VV	20528	409928	3.16%	0.119%
255	17.352	17.298	17.398	VV	15665	855403	6.60%	0.249%
256	17.439	17.398	17.462	VV	19691	630079	4.86%	0.184%
257	17.491	17.462	17.503	VV	15596	362086	2.79%	0.106%
258	17.516	17.503	17.548	VV	17937	407199	3.14%	0.119%
259	17.571	17.548	17.598	VV	21368	564980	4.36%	0.165%
260	17.646	17.598	17.674	VV	29994	951666	7.34%	0.277%
261	17.681	17.674	17.700	VV	16249	223870	1.73%	0.065%
262	17.717	17.700	17.737	VV	14990	315170	2.43%	0.092%
263	17.761	17.737	17.798	VV	19039	582001	4.49%	0.170%
264	17.815	17.798	17.838	VV	17080	361039	2.79%	0.105%
265	17.858	17.838	17.882	VV	14064	348382	2.69%	0.102%
266	17.918	17.882	17.928	VV	14319	359304	2.77%	0.105%
267	17.979	17.928	18.005	VV	21905	751781	5.80%	0.219%
268	18.020	18.005	18.031	VV	17209	259667	2.00%	0.076%
269	18.091	18.031	18.144	VV	444558	7115894	54.89%	2.074%
270	18.176	18.144	18.193	VV	21787	509839	3.93%	0.149%
271	18.229	18.193	18.251	VV	28657	792387	6.11%	0.231%
272	18.263	18.251	18.304	VV	22653	612932	4.73%	0.179%
273	18.318	18.304	18.353	VV	17729	472354	3.64%	0.138%
274	18.417	18.353	18.428	VV	22223	834673	6.44%	0.243%
275	18.496	18.428	18.512	VV	483794	8877875	68.49%	2.587%
276	18.532	18.512	18.584	VV	539053	8432225	65.05%	2.458%
277	18.601	18.584	18.634	VV	32311	803902	6.20%	0.234%
278	18.643	18.634	18.671	VV	22815	466747	3.60%	0.136%
279	18.680	18.671	18.701	VV	19684	320054	2.47%	0.093%
280	18.756	18.701	18.852	VV	482058	9236545	71.25%	2.692%
281	18.923	18.852	18.963	VV	445744	7473197	57.65%	2.178%
282	18.980	18.963	18.998	VV	19385	378068	2.92%	0.110%
283	19.023	18.998	19.049	VV	34109	813086	6.27%	0.237%
284	19.074	19.049	19.104	VV	28461	845853	6.53%	0.247%
285	19.111	19.104	19.148	VV	24399	587847	4.53%	0.171%
286	19.212	19.148	19.221	VV	24934	1038850	8.01%	0.303%
287	19.286	19.221	19.301	VV	39559	1416691	10.93%	0.413%
288	19.317	19.301	19.380	VV	40217	1551738	11.97%	0.452%
289	19.422	19.380	19.480	VV	32425	1775744	13.70%	0.518%
290	19.508	19.480	19.530	VV	31013	894510	6.90%	0.261%
291	19.566	19.530	19.597	VV	32330	1222273	9.43%	0.356%
292	19.609	19.597	19.662	VV	30075	1092661	8.43%	0.318%
293	19.710	19.662	19.755	VV	436452	7908712	61.01%	2.305%
294	19.773	19.755	19.793	VV	36955	803300	6.20%	0.234%
295	19.819	19.793	19.865	VV	40693	1557276	12.01%	0.454%
296	19.903	19.865	19.931	VV	38666	1436533	11.08%	0.419%
297	19.983	19.931	20.021	VV	38676	1937577	14.95%	0.565%
298	20.061	20.021	20.072	VV	43065	1172076	9.04%	0.342%
299	20.089	20.072	20.102	VV	42561	763611	5.89%	0.223%

						rters		
300	20.123	20.102	20.172	VV	42389	1601295	12.35%	0.467%
301	20.195	20.172	20.208	VV	35358	727582	5.61%	0.212%
302	20.289	20.208	20.334	VV	46171	3100726	23.92%	0.904%
303	20.352	20.334	20.394	VV	45676	1570292	12.11%	0.458%
304	20.401	20.394	20.408	VV	43483	356887	2.75%	0.104%
305	20.452	20.408	20.488	VV	450601	8006759	61.77%	2.334%
306	20.519	20.488	20.540	VV	49631	1481890	11.43%	0.432%
307	20.593	20.540	20.634	VV	56941	2931139	22.61%	0.854%
308	20.650	20.634	20.673	VV	52693	1212897	9.36%	0.353%
309	20.703	20.673	20.721	VV	49111	1373419	10.59%	0.400%
310	20.742	20.721	20.751	VV	47450	844275	6.51%	0.246%
311	20.804	20.751	20.821	VV	53528	2094265	16.16%	0.610%
312	20.831	20.821	20.878	VV	50654	1665072	12.84%	0.485%
313	20.891	20.878	20.980	VV	47663	2683833	20.70%	0.782%
314	20.992	20.980	20.999	VV	38224	423801	3.27%	0.124%
315	21.025	20.999	21.037	VV	38768	867101	6.69%	0.253%
316	21.051	21.037	21.075	VV	39344	842926	6.50%	0.246%
317	21.104	21.075	21.125	VV	37531	1103673	8.51%	0.322%
318	21.195	21.125	21.245	VV	363131	8370466	64.57%	2.440%
319	21.326	21.245	21.348	VV	29853	1718976	13.26%	0.501%
320	21.361	21.348	21.400	VV	28785	855784	6.60%	0.249%
321	21.419	21.400	21.576	VV	27422	2265838	17.48%	0.660%
322	21.628	21.576	21.655	VV	19217	783842	6.05%	0.228%
323	21.746	21.655	21.958	VV	19372	2271035	17.52%	0.662%
324	21.993	21.958	22.043	VV	3341	97181	0.75%	0.028%
					Sum of corrected areas:		343119403	

Aliphatic EPH 030325.M Thu Mar 13 05:48:28 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	5MSD	SDG No.:	Q1542
Lab Sample ID:	Q1542-07MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/12/25 08:55	03/12/25 16:39	PB167096

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	106	E	1	1.99	4.61	mg/kg	FE052768.D
Total EPH	Total EPH	106			1.99	4.61	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C28 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C28 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:	Sciacca General Contractors, LLC	Date Collected:	
Project:	248 Union St., Lodi	Date Received:	
Client Sample ID:	5MSD	SDG No.:	Q1542
Lab Sample ID:	Q1542-07MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_F2
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052768.D	1	03/12/25	03/12/25	PB167096

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	106	E	1.99	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	77.9	E	2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.8		40 - 140	62%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.8		40 - 140	58%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1542-07MSD	Acq On:	12 Mar 2025 16:39
Client Sample ID:	5MSD	Operator:	YP\AJ
Data file:	FE052768.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	3.148	6.790	35276454	226.206	300	ug/ml
Aliphatic C12-C16	6.791	10.243	43042985	282.994	200	ug/ml
Aliphatic C16-C21	10.244	13.621	49787028	339.732	300	ug/ml
Aliphatic C21-C28	13.622	17.293	74919001	525.925	400	ug/ml
Aliphatic C28-C40	17.294	22.210	129167062	1010	600	ug/ml
Aliphatic EPH	3.148	22.210	332192530	2390		ug/ml
ortho-Terphenyl (SURR)	11.910	11.910	4850913	28.77		ug/ml
1-chlorooctadecane (SURR)	13.355	13.355	3740611	30.81		ug/ml
Aliphatic C9-C28	3.148	17.293	203025468	1370	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052768.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 16:39
 Operator : YP\AJ
 Sample : Q1542-07MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5MSD

Integration File: autoint1.e
 Quant Time: Mar 13 03:57:59 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Quant Title : GC Extractables
 QLast Update : Mon Mar 03 13:39:39 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.910	4850913	28.774 ug/ml
Spiked Amount 50.000		Recovery =	57.55%
12) S 1-chlorooctadecane (S...	13.355	3740611	30.806 ug/ml
Spiked Amount 50.000		Recovery =	61.61%
Target Compounds			
1) T n-Nonane (C9)	3.267	6522922	42.070 ug/ml
2) T n-Decane (C10)	4.521	6692382	42.601 ug/ml
3) T A~Naphthalene (C11.7)	6.227	7224554	42.600 ug/ml
4) T n-Dodecane (C12)	6.694	6650600	42.714 ug/ml
5) T A~2-methylnaphthalene...	7.328	6536511	40.335 ug/ml
6) T n-Tetradecane (C14)	8.531	6569740	43.419 ug/ml
7) T n-Hexadecane (C16)	10.145	6380210	41.731 ug/ml
8) T n-Octadecane (C18)	11.595	6347145	41.719 ug/ml
10) T n-Eicosane (C20)	12.911	6412640	44.172 ug/ml
11) T n-Heneicosane (C21)	13.525	6156367	43.255 ug/ml
13) T n-Docosane (C22)	14.114	6162937	43.307 ug/ml
14) T n-Tetracosane (C24)	15.209	12990654	90.775 ug/ml
15) T n-Hexacosane (C26)	16.248	6427385	45.201 ug/ml
16) T n-Octacosane (C28)	17.200	6394559	44.970 ug/ml
17) T n-Tricontane (C30)	18.091	6331319	42.866 ug/ml
18) T n-Dotriacontane (C32)	18.923	6443534	44.383 ug/ml
19) T n-Tetratriacontane (C34)	19.710	6463589	47.957 ug/ml
20) T n-Hexatriacontane (C36)	20.453	6183381	52.038 ug/ml
21) T n-Octatriacontane (C38)	21.196	6249897	56.338 ug/ml
22) T n-Tetracontane (C40)	22.122	6613110	61.167 ug/ml

(f)=RT Delta > 1/2 Window

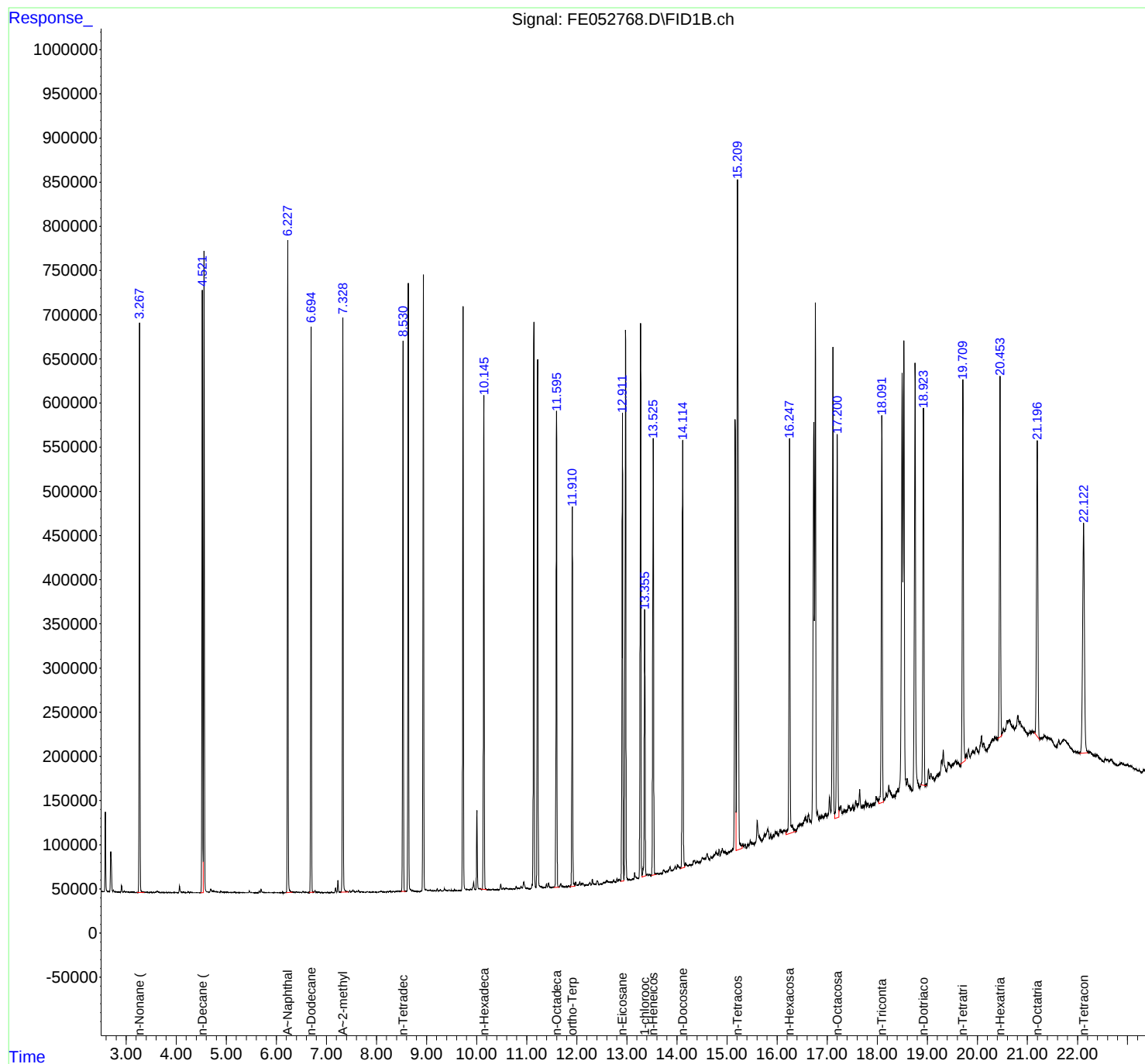
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
Data File : FE052768.D
Signal(s) : FID1B.ch
Acq On : 12 Mar 2025 16:39
Operator : YP\AJ
Sample : Q1542-07MSD
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5MSD

Integration File: autoint1.e
Quant Time: Mar 13 03:57:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
Quant Title : GC Extractables
QLast Update : Mon Mar 03 13:39:39 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE031225AL\
 Data File : FE052768.D
 Signal(s) : FID1B.ch
 Acq On : 12 Mar 2025 16:39
 Sample : Q1542-07MSD
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 030325.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.909	2.874	2.946	PV	7454	83516	0.63%	0.024%
2	2.964	2.946	2.982	VV	1623	17621	0.13%	0.005%
3	3.004	2.982	3.023	VV	658	9631	0.07%	0.003%
4	3.050	3.023	3.108	VV	368	9118	0.07%	0.003%
5	3.135	3.108	3.198	PV	493	9457	0.07%	0.003%
6	3.202	3.198	3.228	VV	127	887	0.01%	0.000%
7	3.267	3.228	3.368	PV	645179	6536557	49.49%	1.917%
8	3.383	3.368	3.398	VV	401	6076	0.05%	0.002%
9	3.408	3.398	3.463	VV	584	11603	0.09%	0.003%
10	3.477	3.463	3.527	VV	363	9114	0.07%	0.003%
11	3.547	3.527	3.564	VV	539	5891	0.04%	0.002%
12	3.618	3.564	3.689	VV	1852	42034	0.32%	0.012%
13	3.712	3.689	3.738	VV	480	5866	0.04%	0.002%
14	3.754	3.738	3.800	VV	186	4192	0.03%	0.001%
15	3.850	3.800	3.891	VV	475	12564	0.10%	0.004%
16	3.898	3.891	3.924	VV	146	1244	0.01%	0.000%
17	3.951	3.924	3.960	PV	369	3897	0.03%	0.001%
18	3.974	3.960	4.018	VV	416	7391	0.06%	0.002%
19	4.028	4.018	4.040	PV	120	1141	0.01%	0.000%
20	4.066	4.040	4.118	VV	7530	101337	0.77%	0.030%
21	4.126	4.118	4.142	VV	567	7725	0.06%	0.002%
22	4.152	4.142	4.199	VV	581	13016	0.10%	0.004%
23	4.241	4.199	4.265	VV	1408	20126	0.15%	0.006%
24	4.285	4.265	4.335	VV	831	16201	0.12%	0.005%
25	4.346	4.335	4.403	VV	196	6069	0.05%	0.002%
26	4.414	4.403	4.440	VV	162	2119	0.02%	0.001%
27	4.452	4.440	4.484	VV	145	2382	0.02%	0.001%
28	4.521	4.484	4.538	VV	682045	6695763	50.70%	1.964%
29	4.556	4.538	4.621	VV	717620	7168890	54.28%	2.102%
30	4.630	4.621	4.657	VV	1178	17653	0.13%	0.005%
31	4.689	4.657	4.786	VV	4415	142314	1.08%	0.042%
32	4.801	4.786	4.865	VV	1298	46765	0.35%	0.014%
33	4.893	4.865	4.969	VV	1862	58073	0.44%	0.017%
34	4.979	4.969	5.011	VV	655	15312	0.12%	0.004%
35	5.026	5.011	5.050	VV	726	13855	0.10%	0.004%
36	5.070	5.050	5.121	VV	538	15428	0.12%	0.005%

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37	5.160	5.121	5.207	VV	763	20680	0.16%	0.006%
38	5.235	5.207	5.262	VV	385	10238	0.08%	0.003%
39	5.271	5.262	5.288	VV	318	4164	0.03%	0.001%
40	5.303	5.288	5.322	VV	339	5627	0.04%	0.002%
41	5.339	5.322	5.352	VV	444	5843	0.04%	0.002%
42	5.366	5.352	5.384	VV	275	3744	0.03%	0.001%
43	5.462	5.384	5.492	VV	1974	30375	0.23%	0.009%
44	5.500	5.492	5.520	VV	331	3842	0.03%	0.001%
45	5.532	5.520	5.577	VV	247	4266	0.03%	0.001%
46	5.595	5.577	5.634	VV	91	1407	0.01%	0.000%
47	5.658	5.634	5.678	PV	2128	23301	0.18%	0.007%
48	5.695	5.678	5.726	VV	4064	50354	0.38%	0.015%
49	5.734	5.726	5.753	VV	577	7149	0.05%	0.002%
50	5.774	5.753	5.827	VV	466	11341	0.09%	0.003%
51	5.851	5.827	5.887	VV	329	7018	0.05%	0.002%
52	5.917	5.887	5.934	VV	299	5076	0.04%	0.001%
53	5.948	5.934	6.004	VV	283	8270	0.06%	0.002%
54	6.019	6.004	6.061	VV	264	3687	0.03%	0.001%
55	6.125	6.061	6.154	VV	470	5918	0.04%	0.002%
56	6.227	6.154	6.322	PV	738151	7261979	54.99%	2.130%
57	6.334	6.322	6.368	VV	848	17630	0.13%	0.005%
58	6.403	6.368	6.441	VV	1096	26723	0.20%	0.008%
59	6.455	6.441	6.478	VV	498	8592	0.07%	0.003%
60	6.487	6.478	6.506	VV	385	5479	0.04%	0.002%
61	6.530	6.506	6.559	VV	1716	24331	0.18%	0.007%
62	6.581	6.559	6.608	VV	475	10714	0.08%	0.003%
63	6.611	6.608	6.628	VV	424	3909	0.03%	0.001%
64	6.636	6.628	6.658	VV	328	4465	0.03%	0.001%
65	6.694	6.658	6.748	VV	642911	6667376	50.48%	1.955%
66	6.772	6.748	6.827	VV	2531	41471	0.31%	0.012%
67	6.845	6.827	6.904	VV	781	16717	0.13%	0.005%
68	6.917	6.904	6.937	VV	204	2177	0.02%	0.001%
69	6.977	6.937	7.006	VV	234	5483	0.04%	0.002%
70	7.021	7.006	7.081	PV	393	6734	0.05%	0.002%
71	7.106	7.081	7.129	VV	428	7516	0.06%	0.002%
72	7.182	7.129	7.207	VV	5055	60932	0.46%	0.018%
73	7.230	7.207	7.285	VV	13772	162294	1.23%	0.048%
74	7.328	7.285	7.400	VV	644788	6551828	49.61%	1.922%
75	7.412	7.400	7.442	VV	1321	24767	0.19%	0.007%
76	7.466	7.442	7.484	VV	2247	30870	0.23%	0.009%
77	7.529	7.484	7.544	VV	2692	54183	0.41%	0.016%
78	7.553	7.544	7.584	VV	1666	22683	0.17%	0.007%
79	7.606	7.584	7.624	VV	1467	21830	0.17%	0.006%
80	7.643	7.624	7.666	VV	2443	30404	0.23%	0.009%
81	7.700	7.666	7.749	VV	841	23317	0.18%	0.007%
82	7.766	7.749	7.794	VV	279	4723	0.04%	0.001%
83	7.817	7.794	7.848	VV	985	14830	0.11%	0.004%
84	7.867	7.848	7.891	VV	305	5262	0.04%	0.002%
85	7.928	7.891	7.959	VV	546	8583	0.06%	0.003%
86	7.977	7.959	8.001	VV	143	2353	0.02%	0.001%
87	8.014	8.001	8.029	PV	121	1516	0.01%	0.000%
88	8.074	8.029	8.084	VV	843	14144	0.11%	0.004%
89	8.098	8.084	8.119	VV	1063	14708	0.11%	0.004%

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90	8.130	8.119	8.161	VV	469	7315	0.06%	0.002%
91	8.172	8.161	8.191	VV	288	3430	0.03%	0.001%
92	8.219	8.191	8.237	VV	949	12152	0.09%	0.004%
93	8.277	8.237	8.313	VV	841	18394	0.14%	0.005%
94	8.345	8.313	8.371	VV	822	15145	0.11%	0.004%
95	8.422	8.371	8.468	VV	996	37446	0.28%	0.011%
96	8.531	8.468	8.590	VV	626514	6611988	50.06%	1.939%
97	8.636	8.590	8.704	VV	680888	6978328	52.84%	2.047%
98	8.715	8.704	8.738	VV	1426	21687	0.16%	0.006%
99	8.751	8.738	8.800	VV	860	17917	0.14%	0.005%
100	8.814	8.800	8.841	VV	228	2825	0.02%	0.001%
101	8.892	8.841	8.904	PV	583	9022	0.07%	0.003%
102	8.937	8.904	8.974	VV	700702	7195665	54.48%	2.110%
103	8.985	8.974	9.037	VV	2185	62875	0.48%	0.018%
104	9.070	9.037	9.104	VV	1689	46965	0.36%	0.014%
105	9.124	9.104	9.141	VV	1169	16414	0.12%	0.005%
106	9.154	9.141	9.168	VV	660	9087	0.07%	0.003%
107	9.180	9.168	9.193	VV	773	9977	0.08%	0.003%
108	9.213	9.193	9.239	VV	2667	36144	0.27%	0.011%
109	9.275	9.239	9.334	VV	1837	36637	0.28%	0.011%
110	9.359	9.334	9.426	VV	2538	54975	0.42%	0.016%
111	9.449	9.426	9.471	VV	1362	16924	0.13%	0.005%
112	9.507	9.471	9.528	PV	440	7329	0.06%	0.002%
113	9.561	9.528	9.624	VV	1497	28387	0.21%	0.008%
114	9.647	9.624	9.681	VV	669	14139	0.11%	0.004%
115	9.730	9.681	9.793	VV	668167	6950651	52.63%	2.038%
116	9.809	9.793	9.848	VV	1558	39756	0.30%	0.012%
117	9.881	9.848	9.900	VV	1589	33039	0.25%	0.010%
118	9.942	9.900	9.981	VV	9491	163191	1.24%	0.048%
119	10.007	9.981	10.064	VV	90254	1024149	7.75%	0.300%
120	10.077	10.064	10.110	VV	2069	37598	0.28%	0.011%
121	10.145	10.110	10.206	VV	557320	6435580	48.73%	1.887%
122	10.246	10.206	10.278	VV	845	23528	0.18%	0.007%
123	10.311	10.278	10.352	PV	713	16570	0.13%	0.005%
124	10.392	10.352	10.409	VV	569	10165	0.08%	0.003%
125	10.418	10.409	10.446	VV	284	3792	0.03%	0.001%
126	10.483	10.446	10.509	PV	6554	81735	0.62%	0.024%
127	10.533	10.509	10.558	VV	2152	36545	0.28%	0.011%
128	10.587	10.558	10.602	VV	1455	29272	0.22%	0.009%
129	10.616	10.602	10.643	VV	1270	23121	0.18%	0.007%
130	10.659	10.643	10.667	VV	783	8628	0.07%	0.003%
131	10.679	10.667	10.704	VV	884	12342	0.09%	0.004%
132	10.731	10.704	10.764	VV	766	14399	0.11%	0.004%
133	10.790	10.764	10.826	VV	3525	60964	0.46%	0.018%
134	10.840	10.826	10.858	VV	1375	19277	0.15%	0.006%
135	10.886	10.858	10.913	VV	3184	54141	0.41%	0.016%
136	10.942	10.913	10.991	VV	8129	162542	1.23%	0.048%
137	11.004	10.991	11.027	VV	706	12793	0.10%	0.004%
138	11.039	11.027	11.061	VV	511	5787	0.04%	0.002%
139	11.143	11.061	11.184	PV	647834	7079287	53.60%	2.076%
140	11.219	11.184	11.271	VV	599273	6702274	50.75%	1.966%
141	11.285	11.271	11.327	VV	2155	51002	0.39%	0.015%

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142	11.342	11.327	11.352	VV	786	9576	0.07%	0.003%
143	11.395	11.352	11.415	VV	4749	68443	0.52%	0.020%
144	11.436	11.415	11.488	VV	5647	86863	0.66%	0.025%
145	11.524	11.488	11.544	VV	1045	21438	0.16%	0.006%
146	11.595	11.544	11.644	VV	533231	6366904	48.21%	1.867%
147	11.681	11.644	11.704	VV	4539	83545	0.63%	0.025%
148	11.717	11.704	11.734	VV	1521	20412	0.15%	0.006%
149	11.745	11.734	11.764	VV	815	9837	0.07%	0.003%
150	11.787	11.764	11.813	VV	1461	21457	0.16%	0.006%
151	11.837	11.813	11.861	PV	1835	25710	0.19%	0.008%
152	11.910	11.861	11.938	VV	432129	4830782	36.58%	1.417%
153	11.946	11.938	11.962	VV	4056	43940	0.33%	0.013%
154	11.979	11.962	12.002	VV	5177	72795	0.55%	0.021%
155	12.060	12.002	12.079	VV	4870	107337	0.81%	0.031%
156	12.095	12.079	12.109	VV	3141	39106	0.30%	0.011%
157	12.125	12.109	12.164	VV	3486	54646	0.41%	0.016%
158	12.204	12.164	12.221	VV	1103	23911	0.18%	0.007%
159	12.265	12.221	12.288	VV	2957	67991	0.51%	0.020%
160	12.311	12.288	12.339	VV	6634	93100	0.70%	0.027%
161	12.351	12.339	12.371	VV	1282	18721	0.14%	0.005%
162	12.407	12.371	12.441	VV	4795	93031	0.70%	0.027%
163	12.481	12.441	12.504	PV	946	17909	0.14%	0.005%
164	12.540	12.504	12.574	VV	1789	52898	0.40%	0.016%
165	12.598	12.574	12.616	VV	3843	61634	0.47%	0.018%
166	12.624	12.616	12.661	VV	2121	42960	0.33%	0.013%
167	12.685	12.661	12.709	VV	1377	26272	0.20%	0.008%
168	12.735	12.709	12.781	VV	3012	53559	0.41%	0.016%
169	12.803	12.781	12.821	VV	4224	49633	0.38%	0.015%
170	12.850	12.821	12.871	VV	3275	62188	0.47%	0.018%
171	12.911	12.871	12.939	VV	530494	6428366	48.67%	1.885%
172	12.973	12.939	13.043	VV	625668	7473966	56.59%	2.192%
173	13.051	13.043	13.079	VV	961	13213	0.10%	0.004%
174	13.102	13.079	13.117	PV	1210	15175	0.11%	0.004%
175	13.155	13.117	13.222	VV	7730	146858	1.11%	0.043%
176	13.273	13.222	13.303	VV	633953	7205539	54.56%	2.113%
177	13.355	13.303	13.387	VV	303880	3819956	28.92%	1.120%
178	13.404	13.387	13.426	VV	3302	58764	0.44%	0.017%
179	13.443	13.426	13.486	VV	2780	70599	0.53%	0.021%
180	13.525	13.486	13.584	VV	496424	6217590	47.08%	1.823%
181	13.608	13.584	13.644	VV	1933	52978	0.40%	0.016%
182	13.665	13.644	13.676	VV	1745	21478	0.16%	0.006%
183	13.691	13.676	13.706	VV	1696	19715	0.15%	0.006%
184	13.735	13.706	13.771	PV	4263	103818	0.79%	0.030%
185	13.801	13.771	13.814	VV	1996	39453	0.30%	0.012%
186	13.861	13.814	13.888	VV	5893	131714	1.00%	0.039%
187	13.901	13.888	13.913	VV	1661	14593	0.11%	0.004%
188	13.965	13.913	13.988	VV	4310	101993	0.77%	0.030%
189	14.009	13.988	14.039	VV	5775	109088	0.83%	0.032%
190	14.049	14.039	14.074	VV	2387	39512	0.30%	0.012%
191	14.114	14.074	14.157	VV	482976	6186753	46.84%	1.814%
192	14.175	14.157	14.219	VV	4793	100288	0.76%	0.029%
193	14.258	14.219	14.277	VV	1633	45578	0.35%	0.013%
194	14.346	14.277	14.373	VV	5102	149798	1.13%	0.044%

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195	14.409	14.373	14.435	VV	2779	78451	0.59%	0.023%
196	14.447	14.435	14.458	VV	1202	15267	0.12%	0.004%
197	14.502	14.458	14.541	VV	5556	169668	1.28%	0.050%
198	14.554	14.541	14.574	VV	4072	70788	0.54%	0.021%
199	14.601	14.574	14.653	VV	9016	217493	1.65%	0.064%
200	14.677	14.653	14.691	VV	3834	55955	0.42%	0.016%
201	14.743	14.691	14.755	VV	5626	139709	1.06%	0.041%
202	14.777	14.755	14.820	VV	7939	220566	1.67%	0.065%
203	14.840	14.820	14.862	VV	9592	142602	1.08%	0.042%
204	14.906	14.862	14.945	VV	9607	284675	2.16%	0.083%
205	14.964	14.945	15.008	VV	4762	129991	0.98%	0.038%
206	15.080	15.008	15.090	VV	3735	151659	1.15%	0.044%
207	15.112	15.090	15.122	VV	6054	90155	0.68%	0.026%
208	15.162	15.122	15.182	VV	486984	6920281	52.40%	2.030%
209	15.209	15.182	15.302	VV	751687	13206944	100.00%	3.873%
210	15.318	15.302	15.340	VV	7582	139907	1.06%	0.041%
211	15.358	15.340	15.391	VV	6193	142119	1.08%	0.042%
212	15.413	15.391	15.436	VV	5932	123820	0.94%	0.036%
213	15.462	15.436	15.482	VV	9259	182499	1.38%	0.054%
214	15.494	15.482	15.541	VV	6843	187892	1.42%	0.055%
215	15.603	15.541	15.694	VV	29578	1000602	7.58%	0.293%
216	15.749	15.694	15.771	VV	11594	393529	2.98%	0.115%
217	15.811	15.771	15.853	VV	16574	589654	4.46%	0.173%
218	15.873	15.853	15.895	VV	9283	170245	1.29%	0.050%
219	15.925	15.895	15.943	VV	8208	187860	1.42%	0.055%
220	15.962	15.943	15.974	VV	10849	167453	1.27%	0.049%
221	15.994	15.974	16.021	VV	10387	250283	1.90%	0.073%
222	16.058	16.021	16.102	VV	11436	445620	3.37%	0.131%
223	16.129	16.102	16.144	VV	10278	231202	1.75%	0.068%
224	16.154	16.144	16.178	VV	9496	178544	1.35%	0.052%
225	16.248	16.178	16.334	VV	449666	6800831	51.49%	1.995%
226	16.341	16.334	16.384	VV	7804	191509	1.45%	0.056%
227	16.570	16.384	16.596	VV	18567	1465078	11.09%	0.430%
228	16.626	16.596	16.683	VV	20036	736994	5.58%	0.216%
229	16.732	16.683	16.747	VV	459335	7792478	59.00%	2.285%
230	16.764	16.747	16.795	VV	596950	7273355	55.07%	2.133%
231	16.807	16.795	16.838	VV	20013	389334	2.95%	0.114%
232	16.851	16.838	16.878	VV	13464	293259	2.22%	0.086%
233	16.895	16.878	16.919	VV	13758	314223	2.38%	0.092%
234	16.972	16.919	16.998	VV	14948	596511	4.52%	0.175%
235	17.046	16.998	17.071	VV	33013	852016	6.45%	0.250%
236	17.114	17.071	17.148	VV	541205	7564947	57.28%	2.219%
237	17.200	17.148	17.234	VV	441207	6738010	51.02%	1.976%
238	17.246	17.234	17.252	VV	15707	163963	1.24%	0.048%
239	17.274	17.252	17.294	VV	18482	397279	3.01%	0.117%
240	17.359	17.294	17.395	VV	12283	686761	5.20%	0.201%
241	17.440	17.395	17.471	VV	16366	621436	4.71%	0.182%
242	17.516	17.471	17.536	VV	15897	494839	3.75%	0.145%
243	17.573	17.536	17.595	VV	20123	531685	4.03%	0.156%
244	17.611	17.595	17.624	VV	15952	251258	1.90%	0.074%
245	17.648	17.624	17.705	VV	30865	813967	6.16%	0.239%
246	17.718	17.705	17.732	VV	12741	179871	1.36%	0.053%

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247	17.767	17.732	17.792	VV	15445	454131	3.44%	0.133%
248	17.817	17.792	17.842	VV	12654	323852	2.45%	0.095%
249	17.866	17.842	17.884	VV	10265	240801	1.82%	0.071%
250	17.916	17.884	17.927	VV	10748	244986	1.85%	0.072%
251	17.946	17.927	17.954	VV	10809	154778	1.17%	0.045%
252	17.978	17.954	18.018	VV	17559	537752	4.07%	0.158%
253	18.025	18.018	18.031	VV	14097	106492	0.81%	0.031%
254	18.091	18.031	18.124	VV	447867	6844022	51.82%	2.007%
255	18.135	18.124	18.142	VV	12335	122585	0.93%	0.036%
256	18.181	18.142	18.204	VV	17031	540214	4.09%	0.158%
257	18.230	18.204	18.308	VV	26110	1112852	8.43%	0.326%
258	18.333	18.308	18.357	VV	13647	371125	2.81%	0.109%
259	18.410	18.357	18.427	VV	19856	667052	5.05%	0.196%
260	18.497	18.427	18.513	VV	489766	8938214	67.68%	2.621%
261	18.532	18.513	18.588	VV	524377	8366779	63.35%	2.454%
262	18.601	18.588	18.628	VV	27096	559344	4.24%	0.164%
263	18.637	18.628	18.706	VV	19425	756053	5.72%	0.222%
264	18.756	18.706	18.853	VV	501308	8948696	67.76%	2.624%
265	18.923	18.853	18.968	VV	439856	7478437	56.63%	2.193%
266	18.975	18.968	18.983	VV	15130	132793	1.01%	0.039%
267	19.023	18.983	19.051	VV	31496	903284	6.84%	0.265%
268	19.072	19.051	19.101	VV	25988	688659	5.21%	0.202%
269	19.120	19.101	19.141	VV	21287	470120	3.56%	0.138%
270	19.207	19.141	19.223	VV	22560	1004158	7.60%	0.294%
271	19.237	19.223	19.250	VV	23806	366704	2.78%	0.108%
272	19.285	19.250	19.298	VV	37010	881028	6.67%	0.258%
273	19.319	19.298	19.378	VV	48622	1610947	12.20%	0.472%
274	19.421	19.378	19.473	VV	32881	1639302	12.41%	0.481%
275	19.501	19.473	19.513	VV	29867	672622	5.09%	0.197%
276	19.564	19.513	19.606	VV	32530	1681711	12.73%	0.493%
277	19.619	19.606	19.668	VV	29244	1018279	7.71%	0.299%
278	19.710	19.668	19.758	VV	461843	8015641	60.69%	2.351%
279	19.779	19.758	19.797	VV	36597	793780	6.01%	0.233%
280	19.823	19.797	19.858	VV	41241	1322984	10.02%	0.388%
281	19.912	19.858	19.948	VV	38132	1927430	14.59%	0.565%
282	19.978	19.948	20.034	VV	41221	1928832	14.60%	0.566%
283	20.082	20.034	20.104	VV	51914	1826663	13.83%	0.536%
284	20.125	20.104	20.193	VV	43565	2008933	15.21%	0.589%
285	20.242	20.193	20.249	VV	39605	1247544	9.45%	0.366%
286	20.287	20.249	20.301	VV	44271	1298011	9.83%	0.381%
287	20.316	20.301	20.330	VV	44680	774950	5.87%	0.227%
288	20.353	20.330	20.408	VV	46620	2055921	15.57%	0.603%
289	20.453	20.408	20.488	VV	456926	8321837	63.01%	2.441%
290	20.517	20.488	20.539	VV	53277	1549203	11.73%	0.454%
291	20.592	20.539	20.609	VV	60933	2312765	17.51%	0.678%
292	20.630	20.609	20.737	VV	61223	4273808	32.36%	1.253%
293	20.749	20.737	20.754	VV	50016	496643	3.76%	0.146%
294	20.805	20.754	20.834	VV	63304	2677806	20.28%	0.785%
295	20.854	20.834	20.996	VV	56118	4600764	34.84%	1.349%
296	21.003	20.996	21.013	VV	39181	397264	3.01%	0.117%
297	21.058	21.013	21.074	VV	40276	1459597	11.05%	0.428%
298	21.098	21.074	21.150	VV	41080	1783907	13.51%	0.523%
299	21.196	21.150	21.246	VV	369164	8159485	61.78%	2.393%

						rteres		
300	21.264	21.246	21.279	VV	30658	595768	4.51%	0.175%
301	21.338	21.279	21.394	VV	31935	2070456	15.68%	0.607%
302	21.419	21.394	21.461	VV	27847	1084794	8.21%	0.318%
303	21.471	21.461	21.561	VV	26338	1259440	9.54%	0.369%
304	21.572	21.561	21.594	VV	15992	304782	2.31%	0.089%
305	21.628	21.594	21.654	VV	22164	675930	5.12%	0.198%
306	21.730	21.654	21.921	VV	20964	2345557	17.76%	0.688%
307	21.938	21.921	21.948	VV	4189	60500	0.46%	0.018%
308	21.956	21.948	22.003	VV	3930	92484	0.70%	0.027%
309	22.013	22.003	22.038	VV	2372	25994	0.20%	0.008%
					Sum of corrected areas:		340972615	

Aliphatic EPH 030325.M Thu Mar 13 05:48:55 2025



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

Manual Integration Report

Sequence:

FE030325AL

Instrument

FID_e

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



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

Manual Integration Report

Sequence:	FE031225AL	Instrument	FID_e
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1535-01DL	FE052756.D	1-chlorooctadecane (SURR)	yogesh	3/13/2025 7:48:11 AM	Ankita	3/13/2025 9:27:42	Peak Integrated by Software

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE030325AL

Review By	yogesh	Review On	3/3/2025 1:02:44 PM
Supervise By	mohammad	Supervise On	3/7/2025 1:35:41 AM
SubDirectory	FE030325AL	HP Acquire Method	HP Processing Method FE030325AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052572.D	03 Mar 2025 08:32	YP\AJ	Ok
2	I.BLK	FE052573.D	03 Mar 2025 09:02	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE052574.D	03 Mar 2025 11:03	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE052575.D	03 Mar 2025 11:34	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE052576.D	03 Mar 2025 12:04	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE052577.D	03 Mar 2025 12:34	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE052578.D	03 Mar 2025 13:04	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE052579.D	03 Mar 2025 13:35	YP\AJ	Ok
9	I.BLK	FE052580.D	03 Mar 2025 14:05	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE052581.D	03 Mar 2025 14:35	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE031225AL

Review By	yogesh	Review On	3/12/2025 10:37:48 AM
Supervise By	Ankita	Supervise On	3/13/2025 9:27:48 AM
SubDirectory	FE031225AL	HP Acquire Method	HP Processing Method FE030325AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC Internal Standard/PEM	PP24176		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE052753.D	12 Mar 2025 07:51	YP\AJ	Ok
2	I.BLK	FE052754.D	12 Mar 2025 08:21	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE052755.D	12 Mar 2025 08:51	YP\AJ	Ok
4	Q1535-01DL	FE052756.D	12 Mar 2025 09:21	YP\AJ	Ok,M
5	I.BLK	FE052757.D	12 Mar 2025 10:58	YP\AJ	Ok
6	20 PPM ALIPHATIC HC STD	FE052758.D	12 Mar 2025 11:29	YP\AJ	Ok
7	PB167096BL	FE052759.D	12 Mar 2025 12:08	YP\AJ	Ok
8	PB167096BS	FE052760.D	12 Mar 2025 12:38	YP\AJ	Ok
9	PB167096BSD	FE052761.D	12 Mar 2025 13:08	YP\AJ	Ok
10	Q1542-03	FE052762.D	12 Mar 2025 13:38	YP\AJ	Ok
11	Q1542-04	FE052763.D	12 Mar 2025 14:08	YP\AJ	Ok
12	Q1542-05	FE052764.D	12 Mar 2025 14:37	YP\AJ	Ok
13	Q1542-06	FE052765.D	12 Mar 2025 15:08	YP\AJ	Ok
14	Q1542-07	FE052766.D	12 Mar 2025 15:38	YP\AJ	Ok
15	Q1542-07MS	FE052767.D	12 Mar 2025 16:08	YP\AJ	Ok
16	Q1542-07MSD	FE052768.D	12 Mar 2025 16:39	YP\AJ	Ok
17	Q1542-08	FE052769.D	12 Mar 2025 17:09	YP\AJ	Ok
18	I.BLK	FE052770.D	12 Mar 2025 18:09	YP\AJ	Ok
19	20 PPM ALIPHATIC HC STD	FE052771.D	12 Mar 2025 18:39	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE030325AL

Review By	yogesh	Review On	3/3/2025 1:02:44 PM
Supervise By	mohammad	Supervise On	3/7/2025 1:35:41 AM
SubDirectory	FE030325AL	HP Acquire Method	HP Processing Method FE030325AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178		
CCC	PP24176		
Internal Standard/PEM	PP24174,PP24179		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE052572.D	03 Mar 2025 08:32		YP\AJ	Ok
2	I.BLK	I.BLK	FE052573.D	03 Mar 2025 09:02		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE052574.D	03 Mar 2025 11:03		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE052575.D	03 Mar 2025 11:34		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052576.D	03 Mar 2025 12:04		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE052577.D	03 Mar 2025 12:34		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE052578.D	03 Mar 2025 13:04		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052579.D	03 Mar 2025 13:35		YP\AJ	Ok
9	I.BLK	I.BLK	FE052580.D	03 Mar 2025 14:05		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052581.D	03 Mar 2025 14:35		YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE031225AL

Review By	yogesh	Review On	3/12/2025 10:37:48 AM
Supervise By	Ankita	Supervise On	3/13/2025 9:27:48 AM
SubDirectory	FE031225AL	HP Acquire Method	HP Processing Method FE030325AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC Internal Standard/PEM	PP24176
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE052753.D	12 Mar 2025 07:51		YP\AJ	Ok
2	I.BLK	I.BLK	FE052754.D	12 Mar 2025 08:21		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052755.D	12 Mar 2025 08:51		YP\AJ	Ok
4	Q1535-01DL	SU-03-03102025DL	FE052756.D	12 Mar 2025 09:21		YP\AJ	Ok,M
5	I.BLK	I.BLK	FE052757.D	12 Mar 2025 10:58		YP\AJ	Ok
6	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052758.D	12 Mar 2025 11:29		YP\AJ	Ok
7	PB167096BL	PB167096BL	FE052759.D	12 Mar 2025 12:08		YP\AJ	Ok
8	PB167096BS	PB167096BS	FE052760.D	12 Mar 2025 12:38		YP\AJ	Ok
9	PB167096BSD	PB167096BSD	FE052761.D	12 Mar 2025 13:08		YP\AJ	Ok
10	Q1542-03	1	FE052762.D	12 Mar 2025 13:38		YP\AJ	Ok
11	Q1542-04	2	FE052763.D	12 Mar 2025 14:08		YP\AJ	Ok
12	Q1542-05	3	FE052764.D	12 Mar 2025 14:37		YP\AJ	Ok
13	Q1542-06	4	FE052765.D	12 Mar 2025 15:08		YP\AJ	Ok
14	Q1542-07	5	FE052766.D	12 Mar 2025 15:38		YP\AJ	Ok
15	Q1542-07MS	5MS	FE052767.D	12 Mar 2025 16:08	FE052766.D	YP\AJ	Ok
16	Q1542-07MSD	5MSD	FE052768.D	12 Mar 2025 16:39	FE052766.D!FE052767.D	YP\AJ	Ok
17	Q1542-08	6	FE052769.D	12 Mar 2025 17:09		YP\AJ	Ok
18	I.BLK	I.BLK	FE052770.D	12 Mar 2025 18:09		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE031225AL

Review By	yogesh	Review On	3/12/2025 10:37:48 AM
Supervise By	Ankita	Supervise On	3/13/2025 9:27:48 AM
SubDirectory	FE031225AL	HP Acquire Method	HP Processing Method FE030325AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24170,PP24175,PP24176,PP24177,PP24178
CCC Internal Standard/PEM	PP24176
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24174,PP24179

19	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE052771.D	12 Mar 2025 18:39		YP\AJ	Ok
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M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/12/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 03/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 105
Time OUT: 08:14
Out Date: 03/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134991

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
Q1542-01	WASTE	1	1.15	8.70	9.85	8.57	85.3	
Q1542-02	VOC	2	1.15	8.83	9.98	8.75	86.1	
Q1542-03	1	3	1.16	8.74	9.9	8.6	85.1	
Q1542-04	2	4	1.15	8.82	9.97	8.84	87.2	
Q1542-05	3	5	1.15	8.42	9.57	8.24	84.2	
Q1542-06	4	6	1.15	8.84	9.99	8.86	87.2	
Q1542-07	5	7	1.17	8.44	9.61	8.46	86.4	
Q1542-08	6	8	1.16	8.82	9.98	8.68	85.3	
Q1544-01	1A-1B-1C	9	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-02	2A-2B-2C	10	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-03	3A-3B-3C	11	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-04	4A-4B-4C	12	1.00	1.00	2.00	2.00	100.0	caluk
Q1544-05	5A-5B-5C	13	1.00	1.00	2.00	2.00	100.0	caluk
Q1545-01	BU-02-031125	14	1.16	9.18	10.34	10.01	96.4	
Q1545-02	BU-02-031125	15	1.17	9.27	10.44	10.06	95.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

JB 134991

WorkList Name : %1-031125 WorkList ID : 188174 Department : Wet-Chemistry Date : 03-11-2025 08:11:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1542-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1542-08	6	Solid	Percent Solids	Cool 4 deg C	SCIA01	F11	03/10/2025	Chemtech -SO
Q1544-01	1A-1B-1C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-02	2A-2B-2C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-03	3A-3B-3C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-04	4A-4B-4C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1544-05	5A-5B-5C	Solid	Percent Solids	Cool 4 deg C	ATCE02	F11	03/11/2025	Chemtech -SO
Q1545-01	BU-02-031125	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/11/2025	Chemtech -SO
Q1545-02	BU-02-031125	Solid	Percent Solids	Cool 4 deg C	PSEG05	I41	03/11/2025	Chemtech -SO

Date/Time 03/11/25 15:35

Raw Sample Received by: JB 134991

Raw Sample Relinquished by: JB 134991

Date/Time 03/11/25

Raw Sample Received by: JB 134991

Raw Sample Relinquished by: JB 134991

SOP ID:	MNJDEP-EPH-7		
Clean Up SOP #:	N/A	Extraction Start Date :	03/12/2025
Matrix :	Solid	Extraction Start Time :	08:55
Weigh By:	EH	Extraction By:	RJ
Balance check:	RJ	Extraction End Date :	03/12/2025
Balance ID:	EX-SC-2	Filter By:	RJ
pH Strip Lot#:	N/A	Extraction End Time :	12:00
		Concentration By:	EH
		Supervisor By :	RUPESH
Extraction Method:	☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet		

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24207
Surrogate	1.0ML	100 PPM	PP24210
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2593
Sand	N/A	E2865
Methylene Chloride	N/A	E3878
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673.

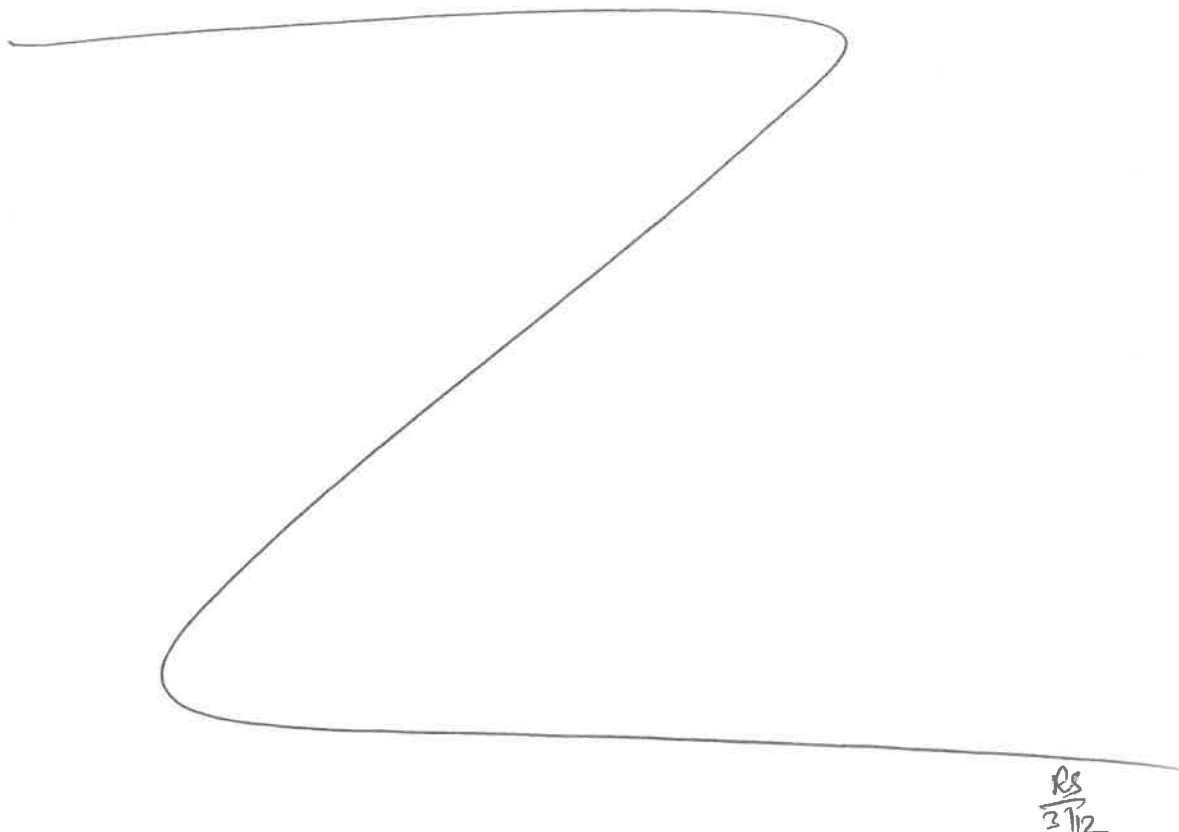
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/12/25	RS (Ext-lab)	Y-P. PESTIPD
12:05	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-7

Concentration Date: 03/12/2025

Sample ID	Client Sample ID	Test	g/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167096BL	PB167096BL	EPH_F2	30.01	N/A	ritesh	Evelyn	2			U2-1
PB167096BS	PB167096BS	EPH_F2	30.02	N/A	ritesh	Evelyn	2			2
PB167096BSD	PB167096BSD	EPH_F2	30.02	N/A	ritesh	Evelyn	2			3
Q1542-03	1	EPH_F2	30.06	N/A	ritesh	Evelyn	2			4
Q1542-04	2	EPH_F2	30.05	N/A	ritesh	Evelyn	2			5
Q1542-05	3	EPH_F2	30.02	N/A	ritesh	Evelyn	2			6
Q1542-06	4	EPH_F2	30.08	N/A	ritesh	Evelyn	2			U3-1
Q1542-07	5	EPH_F2	30.03	N/A	ritesh	Evelyn	2			2
Q1542-07MS	5MS	EPH_F2	30.06	N/A	ritesh	Evelyn	2			3
Q1542-07MS D	5MSD	EPH_F2	30.07	N/A	ritesh	Evelyn	2			4
Q1542-08	6	EPH_F2	30.04	N/A	ritesh	Evelyn	2			5



RS
3/12

47096
96047
558

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1542F WorkList ID : 188220 Department : Extraction Date : 03-12-2025 08:33:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1542-03	1	Solid	EPH_F2	Cool 4 deg C	SCIA01	F11	03/10/2025	NJEPH
Q1542-04	2	Solid	EPH_F2	Cool 4 deg C	SCIA01	F11	03/10/2025	NJEPH
Q1542-05	3	Solid	EPH_F2	Cool 4 deg C	SCIA01	F11	03/10/2025	NJEPH
Q1542-06	4	Solid	EPH_F2	Cool 4 deg C	SCIA01	F11	03/10/2025	NJEPH
Q1542-07	5	Solid	EPH_F2	Cool 4 deg C	SCIA01	F11	03/10/2025	NJEPH
Q1542-08	6	Solid	EPH_F2	Cool 4 deg C	SCIA01	F11	03/10/2025	NJEPH

Date/Time 03/12/25 8:45
Raw Sample Received by: RJ (Felt-Lab)
Raw Sample Relinquished by: OP SM

Date/Time 03/12/25 9:10
Raw Sample Received by: OP SM
Raw Sample Relinquished by: RS (Felt-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q1542

Test : EPH_F2

Prepbatch ID : PB167096,

Sequence ID/Qc Batch ID: FE031225AL,

Standard ID :

EP2591,EP2593,PP24170,PP24174,PP24175,PP24176,PP24177,PP24178,PP24179,PP24207,PP24210,

Chemical ID :

E2865,E3551,E3876,E3878,P12363,P12981,P12983,P12984,P13279,P13602,P13614,P13615,P13638,P13639,P13640,P13641,P13642,P13644,P13650,P13651,P13663,P13671,P13680,P13685,P13715,P13717,P13802,P13803,P13809,P13828,P13836,P13840,P13842,P13846,P13855,P13858,P13859,P13860,W3177,

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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2591	02/26/2025	08/14/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel
02/26/2025								

FROM 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 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	EP2593	03/07/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel
(EX-SC-2)								

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>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24170	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.25000ml of P12981 + 0.25000ml of P13671 + 1.25000ml of P12363 + 23.25000ml of W3177 = 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)	PP24174	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.25000ml of P12983 + 0.25000ml of P13650 + 2.50000ml of P13279 + 22.00000ml of W3177 = 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	PP24175	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.50000ml of W3177 + 0.50000ml of PP24170 = 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	PP24176	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24170 = 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	PP24177	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
02/03/2025								

FROM 0.90000ml of W3177 + 0.10000ml of PP24170 = 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	PP24178	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
02/03/2025								

FROM 0.90000ml of W3177 + 0.10000ml of PP24175 = 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)	PP24179	02/03/2025	08/03/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/03/2025

FROM 0.80000ml of W3177 + 0.20000ml of PP24174 = 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>
1330	100 PPM NJEPH Spike Solution	PP24207	02/26/2025	08/26/2025	Yogesh Patel	None	None	Ankita Jodhani
								02/27/2025

FROM 5.00000ml of P13638 + 5.00000ml of P13639 + 5.00000ml of P13640 + 5.00000ml of P13641 + 5.00000ml of P13642 + 5.00000ml of P13644 + 5.00000ml of P13715 + 5.00000ml of P13717 + 5.00000ml of P13802 + 5.00000ml of P13803 + 5.00000ml of P13809 + 5.00000ml of P13828 + 5.00000ml of P13836 + 5.00000ml of P13840 + 5.00000ml of P13842 + 5.00000ml of P13846 + 5.00000ml of P13855 + 5.00000ml of P13858 + 5.00000ml of P13859 + 5.00000ml of P13860 = Final Quantity: 100.000 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>
1339	100 PPM NJEPH Surrogate Spike	PP24210	02/27/2025	08/27/2025	Yogesh Patel	None	None	Abdul Mirza 03/06/2025
<u>FROM</u>	1.25000ml of P12984 + 1.25000ml of P13602 + 1.25000ml of P13614 + 1.25000ml of P13615 + 1.25000ml of P13651 + 1.25000ml of P13663 + 1.25000ml of P13680 + 1.25000ml of P13685 + 490.00000ml of E3876 = Final Quantity: 500.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	08/03/2025	02/03/2025 / yogesh	03/16/2023 / Yogesh	P12363

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/03/2025	02/03/2025 / yogesh	12/20/2023 / Yogesh	P12981

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/03/2025	02/03/2025 / yogesh	12/20/2023 / Yogesh	P12983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	08/27/2025	02/27/2025 / yogesh	12/20/2023 / Yogesh	P12984

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	08/03/2025	02/03/2025 / yogesh	04/11/2024 / yogesh	P13279

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	08/27/2025	02/27/2025 / yogesh	10/16/2024 / yogesh	P13602

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	08/27/2025	02/27/2025 / yogesh	10/16/2024 / yogesh	P13614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	08/27/2025	02/27/2025 / yogesh	10/16/2024 / yogesh	P13615

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13638

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13639

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13640

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13641

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13642

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	08/26/2025	02/26/2025 / yogesh	10/16/2024 / yogesh	P13644

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/27/2025	02/27/2025 / yogesh	10/16/2024 / yogesh	P13651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/27/2025	02/27/2025 / yogesh	10/16/2024 / yogesh	P13663

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/03/2025	02/03/2025 / yogesh	10/16/2024 / yogesh	P13671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	08/27/2025	02/27/2025 / yogesh	10/16/2024 / yogesh	P13680

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13685

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	08/26/2025	02/26/2025 / yogesh	10/24/2024 / yogesh	P13715

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	10/24/2024 / yogesh	P13717

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13802

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13803

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13809

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13828

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13836

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13840

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13855

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13858

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13859

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	08/26/2025	02/26/2025 / yogesh	12/09/2024 / yogesh	P13860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

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

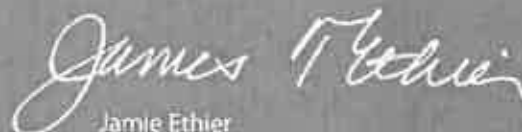
Certificate of Analysis

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.**

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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

 **avantors**™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 2/12/25

E 3876



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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02\%$	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3878

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30540 **Lot No.:** A0190424

Description : NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 25°C nominal

Handling: Sonicate prior to use. **Ship:** Ambient

P12361
↓
P12370 } Y.P.
031/6/23

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Nonane (C9) CAS # 111-84-2 Purity 99% (Lot SHBN5361)	2,014.0 µg/mL	+/- 11.8193 +/- 50.0027 +/- 59.9491	µg/mL Gravimetric Unstressed Stressed
2	n-Decane (C10) CAS # 124-18-5 Purity 99% (Lot SHBN8619)	2,014.7 µg/mL	+/- 11.8232 +/- 50.0193 +/- 59.9689	µg/mL Gravimetric Unstressed Stressed
3	Naphthalene CAS # 91-20-3 Purity 99% (Lot MKCH0219)	2,015.3 µg/mL	+/- 11.8271 +/- 50.0358 +/- 59.9888	µg/mL Gravimetric Unstressed Stressed
4	n-Dodecane (C12) CAS # 112-40-3 Purity 99% (Lot SHBN7174)	2,008.0 µg/mL	+/- 11.7841 +/- 49.8538 +/- 59.7705	µg/mL Gravimetric Unstressed Stressed
5	2-Methylnaphthalene CAS # 91-57-6 Purity 96% (Lot STBK0259)	2,007.0 µg/mL	+/- 11.7784 +/- 49.8299 +/- 59.7419	µg/mL Gravimetric Unstressed Stressed
6	n-Tetradecane (C14) CAS # 629-59-4 Purity 99% (Lot STBK2282)	2,016.7 µg/mL	+/- 11.8349 +/- 50.0689 +/- 60.0284	µg/mL Gravimetric Unstressed Stressed
7	n-Hexadecane (C16) CAS # 544-76-3 Purity 98% (Lot SHBM4146)	2,014.9 µg/mL	+/- 11.8244 +/- 50.0246 +/- 59.9753	µg/mL Gravimetric Unstressed Stressed

8	n-Octadecane (C18) CAS # 593-45-3 Purity 97%	(Lot VZKOJ)	2,004.7 µg/mL	+/-	11.7645	µg/mL	Gravimetric
				+/-	49.7710	µg/mL	Unstressed
				+/-	59.6712	µg/mL	Stressed
9	n-Eicosane (C20) CAS # 112-95-8 Purity 99%	(Lot MKCF7888)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
10	n-Heneicosane (C21) CAS # 629-94-7 Purity 99%	(Lot MKCL3226)	2,000.7 µg/mL	+/-	11.7410	µg/mL	Gravimetric
				+/-	49.6717	µg/mL	Unstressed
				+/-	59.5522	µg/mL	Stressed
11	n-Docosane (C22) CAS # 629-97-0 Purity 99%	(Lot MKCL8918)	2,005.3 µg/mL	+/-	11.7684	µg/mL	Gravimetric
				+/-	49.7876	µg/mL	Unstressed
				+/-	59.6911	µg/mL	Stressed
12	n-Tetracosane (C24) CAS # 646-31-1 Purity 99%	(Lot MKCN2863)	2,018.0 µg/mL	+/-	11.8428	µg/mL	Gravimetric
				+/-	50.1020	µg/mL	Unstressed
				+/-	60.0681	µg/mL	Stressed
13	n-Hexacosane (C26) CAS # 630-01-3 Purity 99%	(Lot MKCD4540)	2,014.0 µg/mL	+/-	11.8193	µg/mL	Gravimetric
				+/-	50.0027	µg/mL	Unstressed
				+/-	59.9491	µg/mL	Stressed
14	n-Octacosane (C28) CAS # 630-02-4 Purity 99%	(Lot BCCG0084)	2,002.0 µg/mL	+/-	11.7489	µg/mL	Gravimetric
				+/-	49.7048	µg/mL	Unstressed
				+/-	59.5919	µg/mL	Stressed
15	n-Triacontane (C30) CAS # 638-68-6 Purity 97%	(Lot MKCQ9436)	2,011.1 µg/mL	+/-	11.8025	µg/mL	Gravimetric
				+/-	49.9316	µg/mL	Unstressed
				+/-	59.8637	µg/mL	Stressed
16	n-Dotriacontane (C32) CAS # 544-85-4 Purity 99%	(Lot BCBW0661)	2,012.0 µg/mL	+/-	11.8075	µg/mL	Gravimetric
				+/-	49.9531	µg/mL	Unstressed
				+/-	59.8895	µg/mL	Stressed
17	n-Tetratriacontane (C34) CAS # 14167-59-0 Purity 99%	(Lot OML4N)	2,006.7 µg/mL	+/-	11.7762	µg/mL	Gravimetric
				+/-	49.8207	µg/mL	Unstressed
				+/-	59.7308	µg/mL	Stressed
18	n-Hexatriacontane (C36) CAS # 630-06-8 Purity 99%	(Lot Z27H018)	2,017.3 µg/mL	+/-	11.8388	µg/mL	Gravimetric
				+/-	50.0855	µg/mL	Unstressed
				+/-	60.0483	µg/mL	Stressed
19	n-Octatriacontane (C38) CAS # 7194-85-6 Purity 96%	(Lot 0000145137)	2,017.3 µg/mL	+/-	11.8385	µg/mL	Gravimetric
				+/-	50.0842	µg/mL	Unstressed
				+/-	60.0467	µg/mL	Stressed
20	n-Tetracontane (C40) CAS # 4181-95-7 Purity 99%	(Lot BSBME)	2,008.7 µg/mL	+/-	11.7880	µg/mL	Gravimetric
				+/-	49.8703	µg/mL	Unstressed
				+/-	59.7903	µg/mL	Stressed
Solvent: Hexane/Carbon disulfide (80:20)							
	CAS # 110-54-3/75-15-0						
	Purity 99%						

Column:
30m x 0.25mm x 0.25µm
Pxx-5 (cat.#10223)

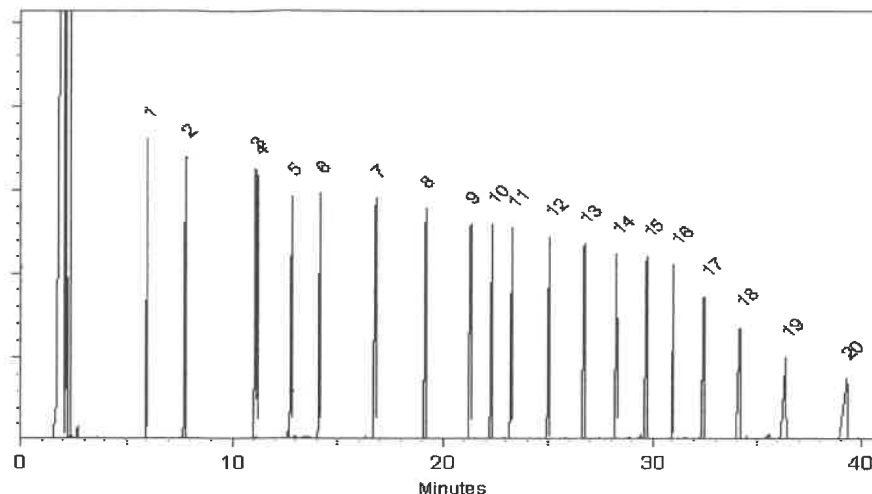
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022 Balance: 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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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:

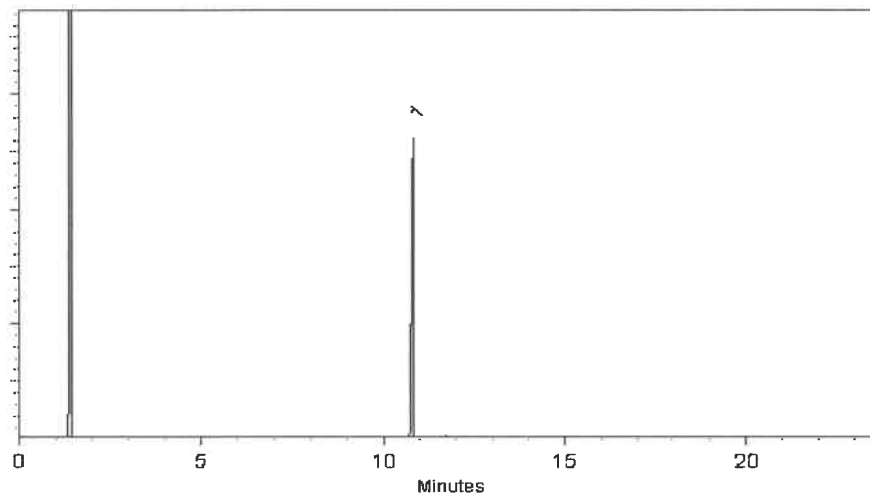
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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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: 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)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

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CAS # 75-09-2
Purity 99%

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Column:

30m x 0.25mm x 0.25µm
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75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

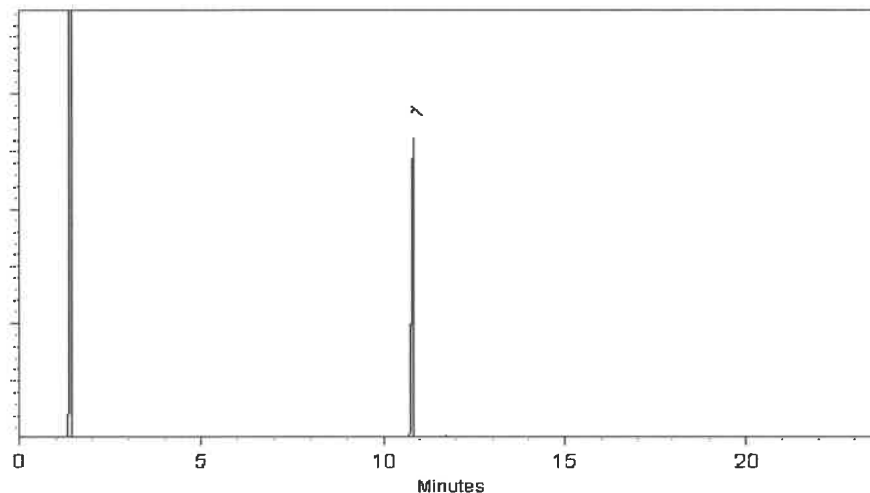
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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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

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1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul
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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)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

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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
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

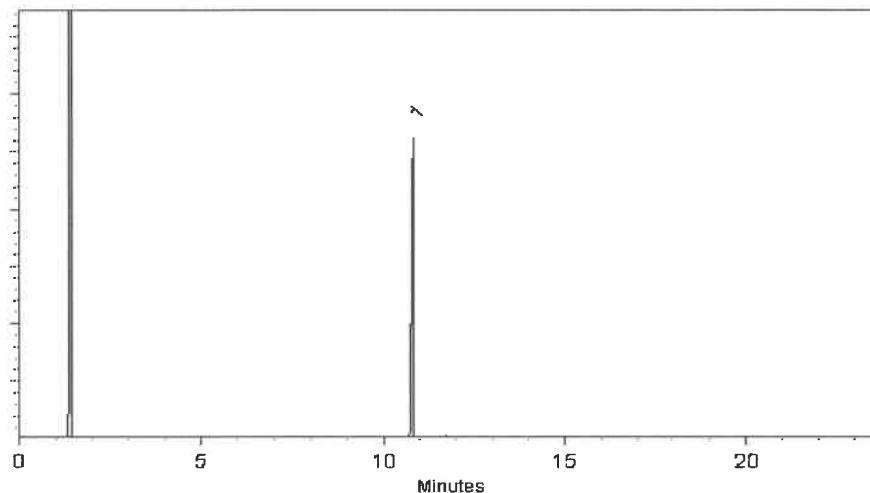
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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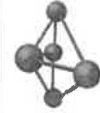
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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	(RM#)	Lot Number	DIL Factor	Initial Vol. (mL)	Initial Conc (µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
																(Solvent Safety Info. On Attached pg.)	
																OSHA PEL (TWA)	
																CAS#	
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	0.013	NA	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	0.013	NA	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	0.013	NA	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	0.013	NA	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	0.013	NA	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	0.013	NA	NA	NA	1000.3	4.1	589-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	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	0.013	NA	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	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Triacosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	0.013	NA	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	0.013	NA	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	0.013	NA	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	0.013	NA	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	0.013	NA	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetraacontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	0.013	NA	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	0.013	NA	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	0.013	NA	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	0.013	NA	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. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

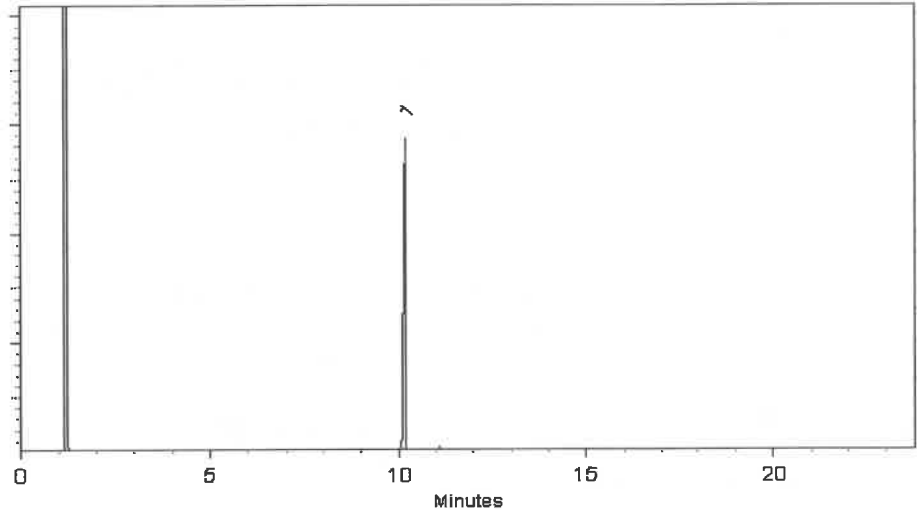
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

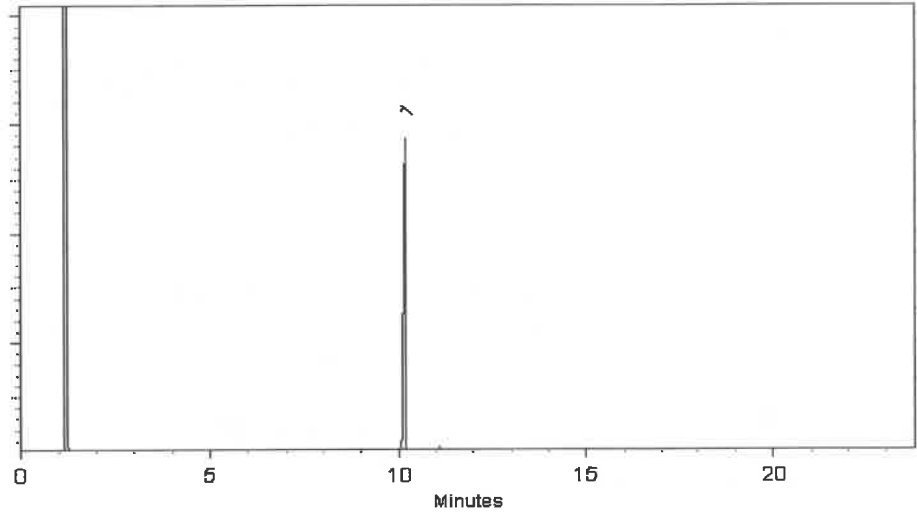
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31098 **Lot No.:** A0213283

Description : 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2031 **Storage:** 10°C or colder

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	15018900	99%	10,058.0 µg/mL	+/- 565.0578

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

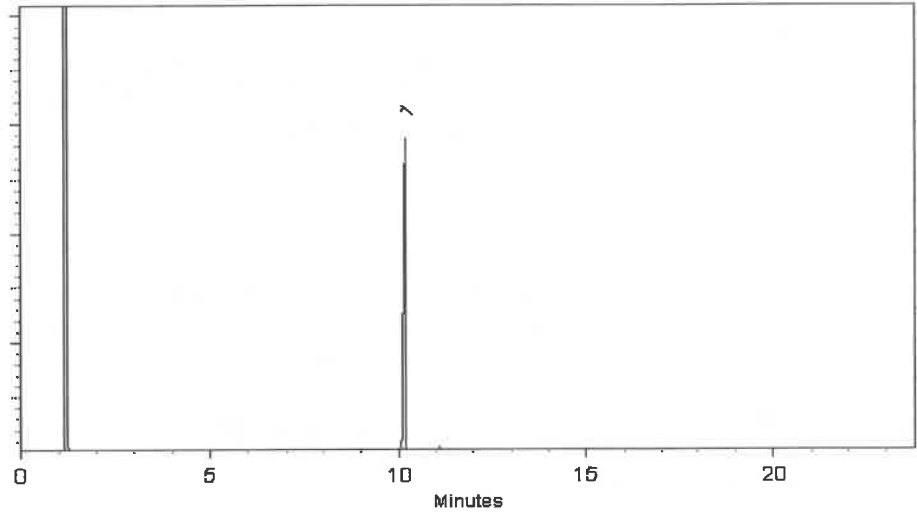
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

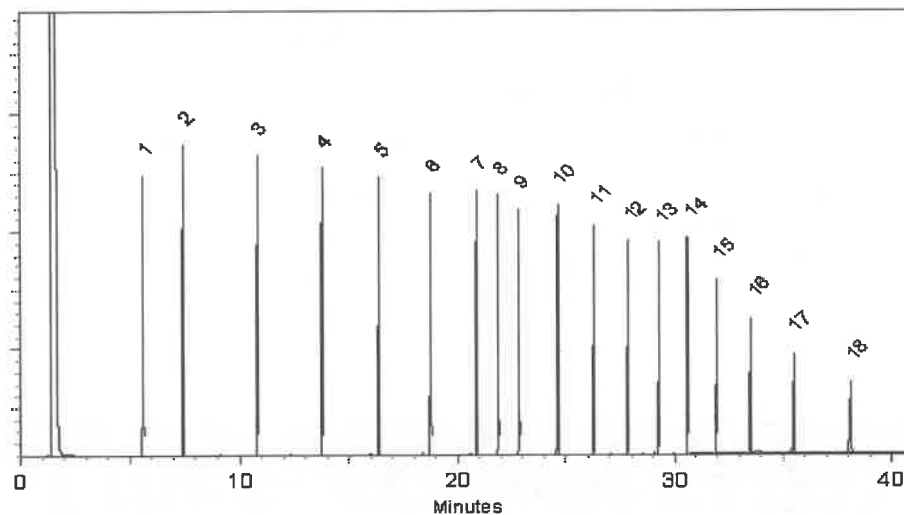
FID

Split Vent:

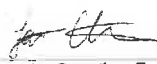
2 ml/min.

Inj. Vol

1µl

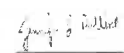


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane**CAS #** 109-66-0**Purity** 99%

Quality Confirmation Test

Column:30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)**Carrier Gas:**

hydrogen-constant pressure 10 psi.

Temp. Program:40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)**Inj. Temp:**

250°C

Det. Temp:

330°C

Det. Type:

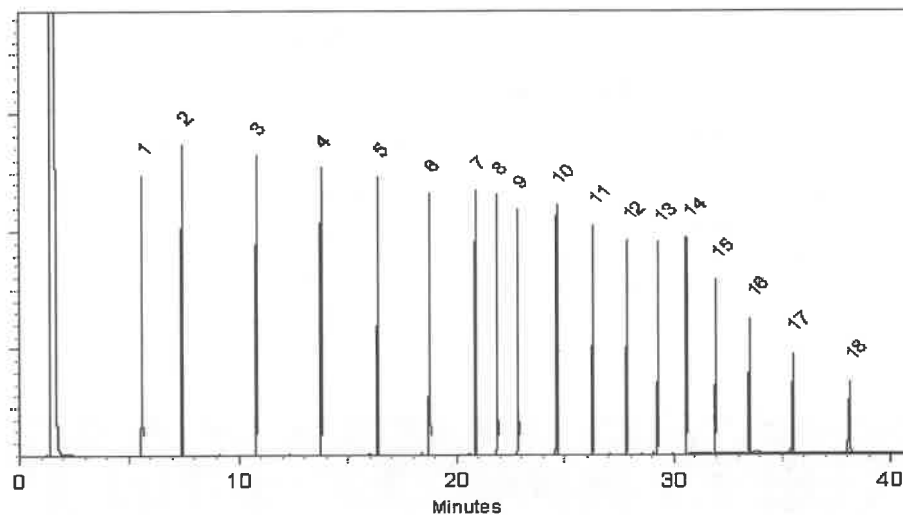
FID

Split Vent:

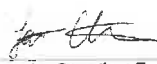
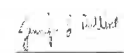
2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I**Date Mixed:** 07-May-2024**Balance Serial #** 1128360905
Jennifer Pollino - Operations Tech III - ARM QC**Date Passed:** 09-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
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P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

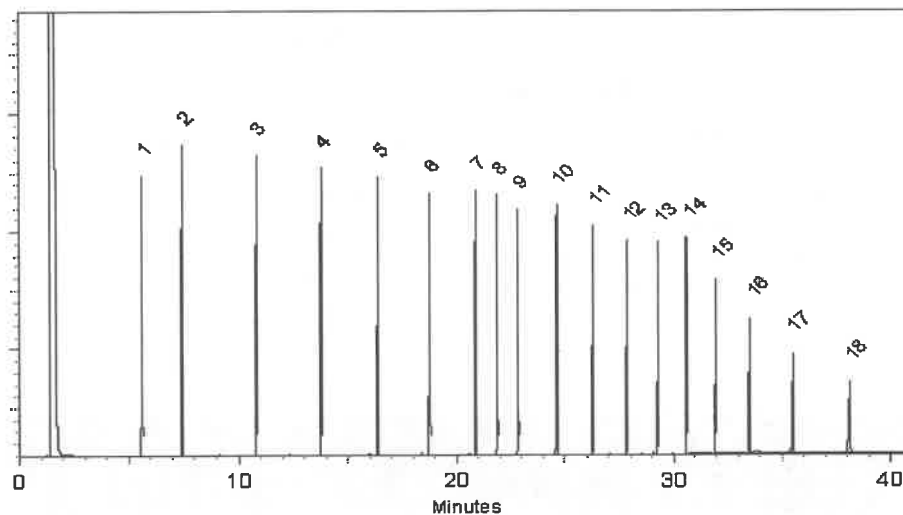
FID

Split Vent:

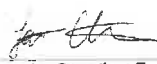
2 ml/min.

Inj. Vol

1µl

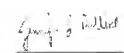


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
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P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

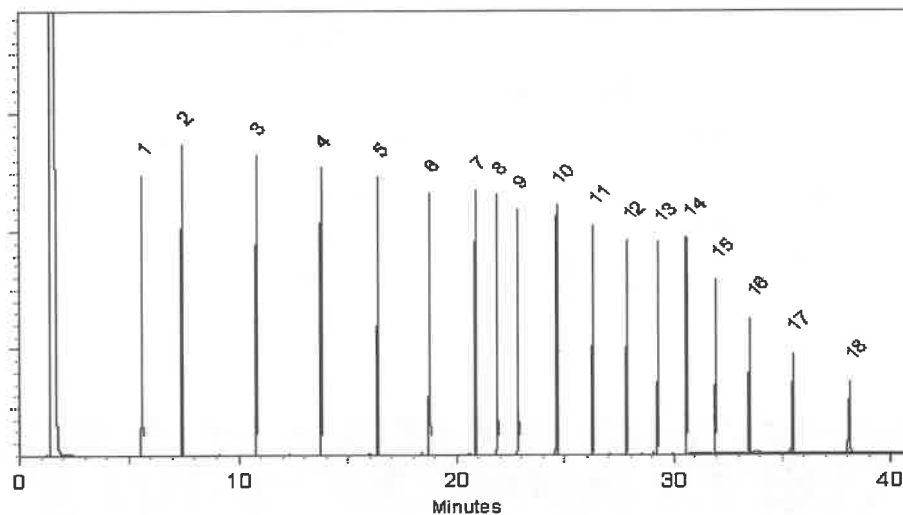
FID

Split Vent:

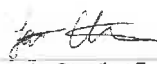
2 ml/min.

Inj. Vol

1µl

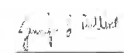


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane**CAS #** 109-66-0**Purity** 99%

Quality Confirmation Test

Column:30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)**Carrier Gas:**

hydrogen-constant pressure 10 psi.

Temp. Program:40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)**Inj. Temp:**

250°C

Det. Temp:

330°C

Det. Type:

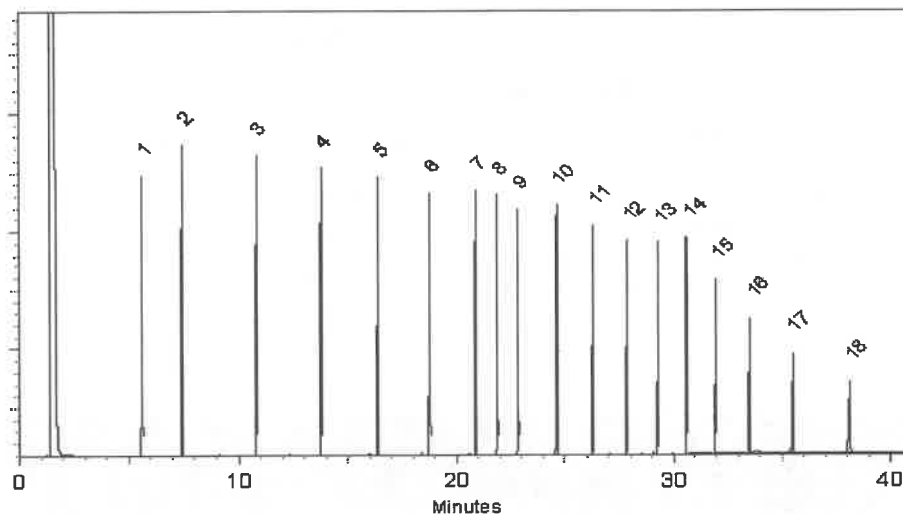
FID

Split Vent:

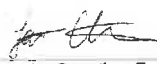
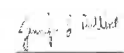
2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I**Date Mixed:** 07-May-2024**Balance Serial #** 1128360905
Jennifer Pollino - Operations Tech III - ARM QC**Date Passed:** 09-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30542 **Lot No.:** A0211112

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13625
↓
P13644 } Y.P.
10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.9 µg/mL	+/- 5.1891
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	200.7 µg/mL	+/- 5.1857
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.4 µg/mL	+/- 5.1771
4	n-Tetradecane (C14)	629-59-4	STBK5437	99%	200.7 µg/mL	+/- 5.1839
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.6 µg/mL	+/- 5.1822
6	n-Octadecane (C18)	593-45-3	UE5NG	98%	200.4 µg/mL	+/- 5.1782
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.4 µg/mL	+/- 5.1771
8	n-Heneicosane (C21)	629-94-7	MKCL3226	99%	200.5 µg/mL	+/- 5.1796
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.6 µg/mL	+/- 5.1814
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.5 µg/mL	+/- 5.1805
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCG0084	99%	200.5 µg/mL	+/- 5.1796
13	n-Triacontane (C30)	638-68-6	MKCQ9436	97%	200.4 µg/mL	+/- 5.1763
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.4 µg/mL	+/- 5.1779
15	n-Tetratriacontane (C34)	14167-59-0	D3MZN	99%	200.5 µg/mL	+/- 5.1805
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000145137	96%	200.5 µg/mL	+/- 5.1808

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

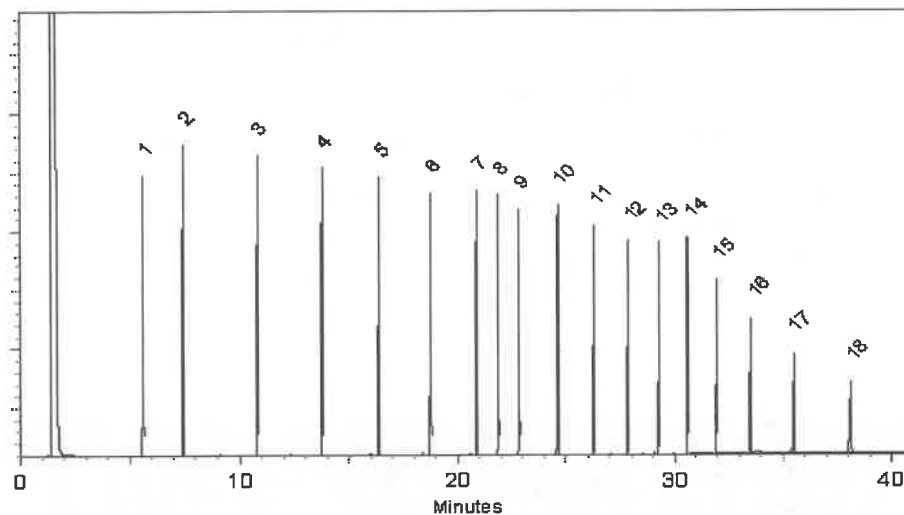
FID

Split Vent:

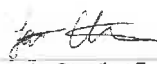
2 ml/min.

Inj. Vol

1µl

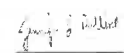


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Laith Clemente - Operations Technician I

Date Mixed: 07-May-2024

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

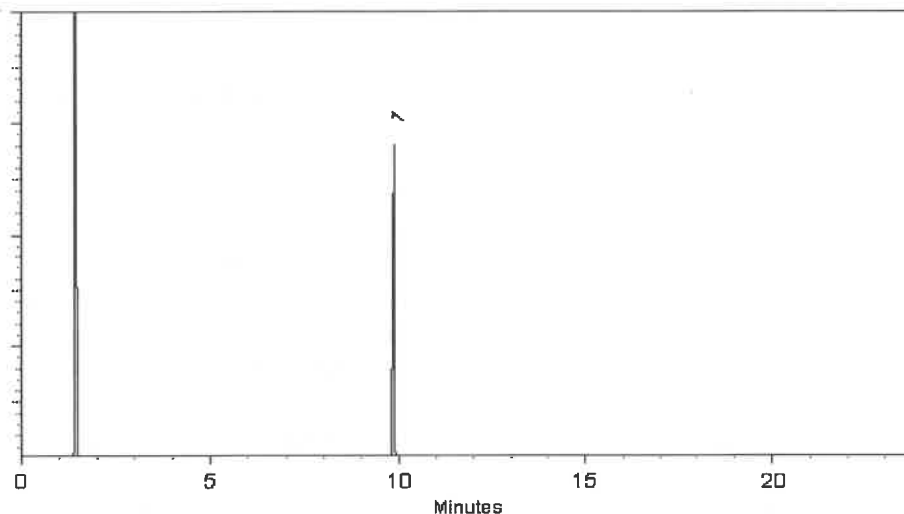
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

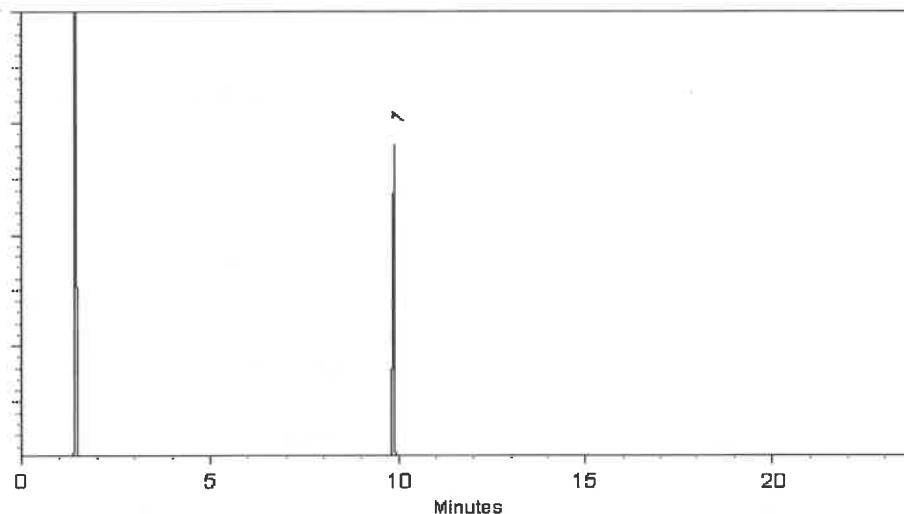
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

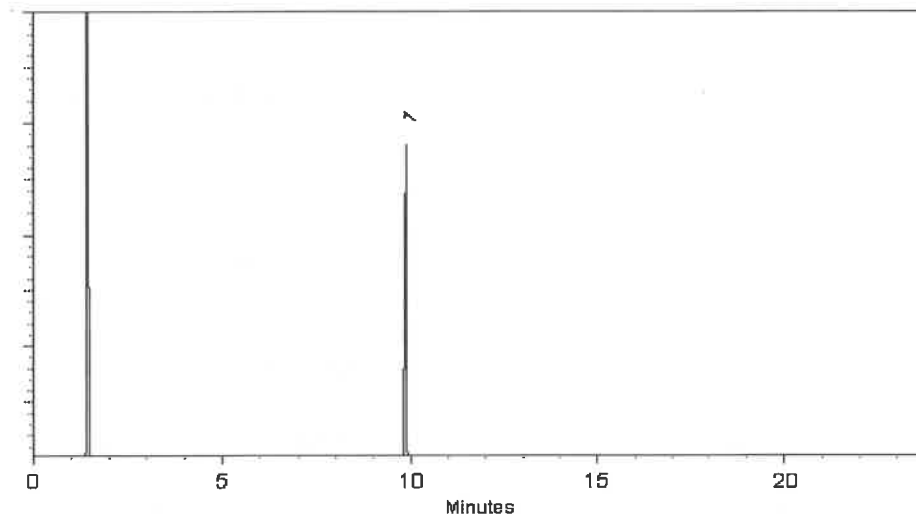
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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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Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

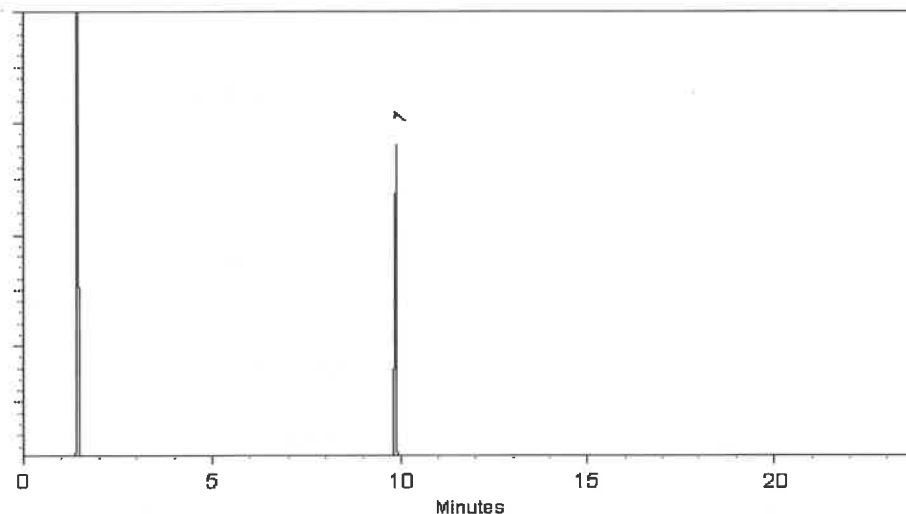
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Catalog No. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

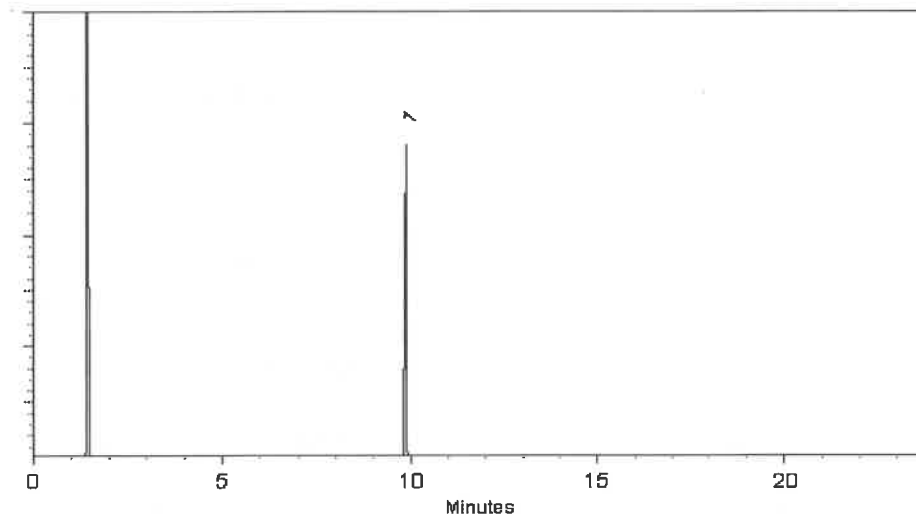
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity 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. : 31097 **Lot No.:** A0216631
Description : o-Terphenyl Standard
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,065.0 µg/mL	+/- 453.3336

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

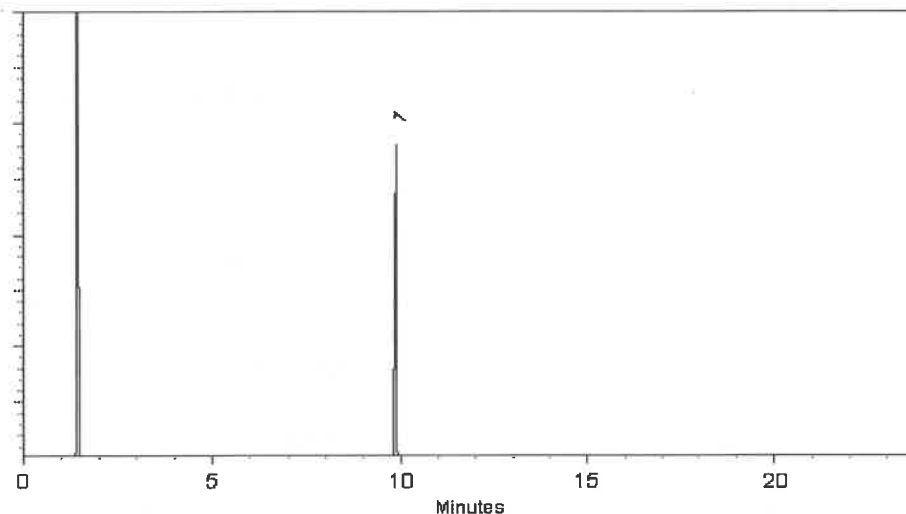
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

P13408
↓
P13716 } Y.P.
10/26/24

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
Rbx-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.)

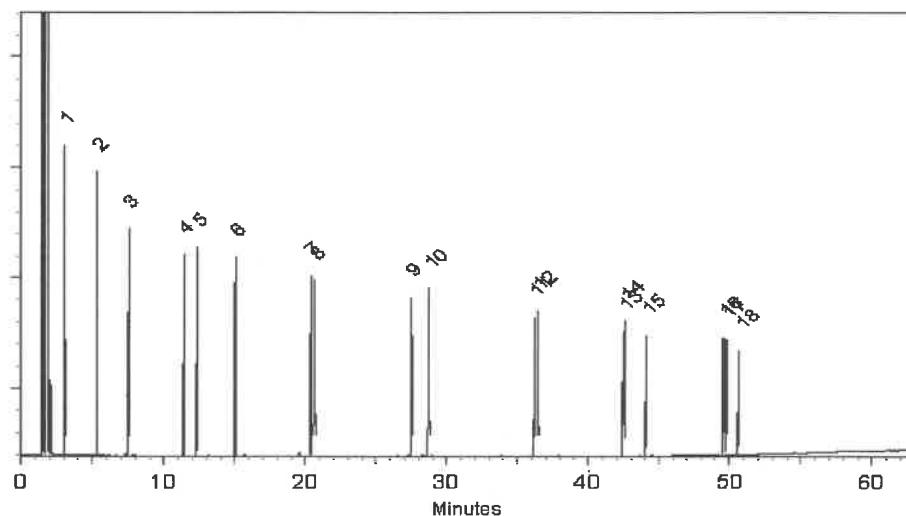
Inj. Temp:
250°C

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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30543

Lot No.: A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : September 30, 2030

Storage: 10°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

p137A } 7.P
↓
p13727 } 10/24/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKQC4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

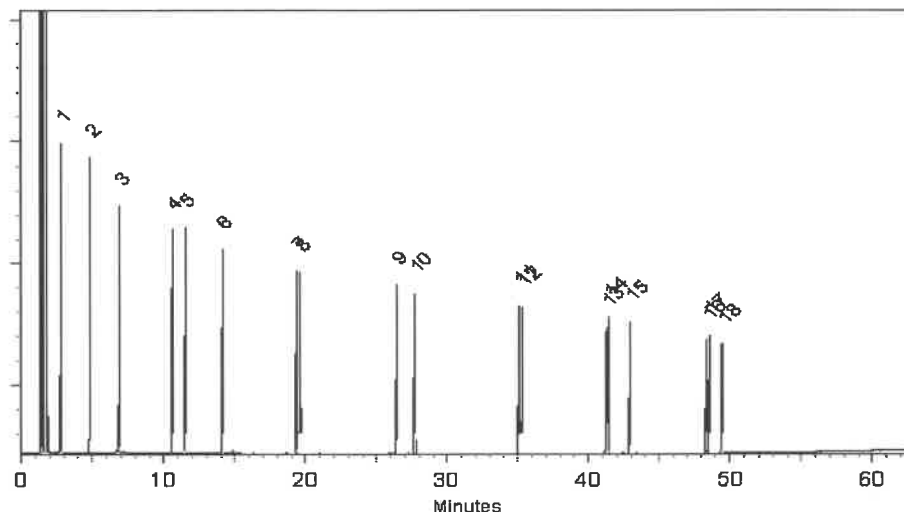
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13829 } YIP
12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
 30m x 0.25mm x 0.25µm
 Rtx-5 (cat.#10223)
Carrier Gas:
 hydrogen-constant pressure 10 psi.

Temp. Program:
 40°C (hold 2 min.) to 330°C
 @ 10°C/min. (hold 10 min.)

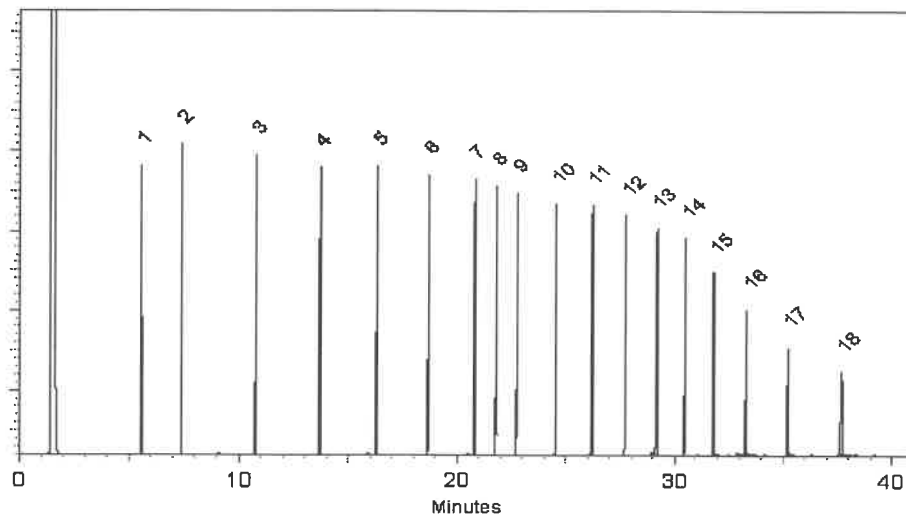
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13829 } YIP
12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
 30m x 0.25mm x 0.25µm
 Rtx-5 (cat.#10223)
Carrier Gas:
 hydrogen-constant pressure 10 psi.

Temp. Program:
 40°C (hold 2 min.) to 330°C
 @ 10°C/min. (hold 10 min.)

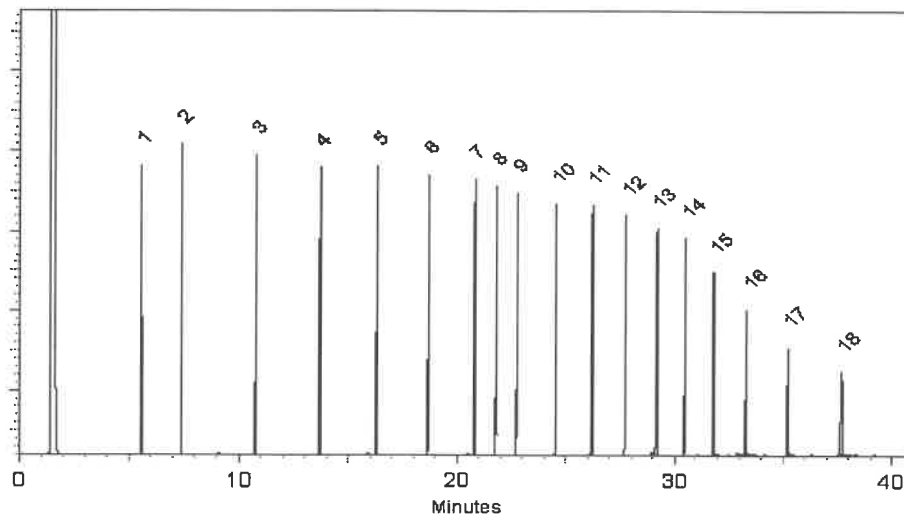
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13829 } YIP
12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
 30m x 0.25mm x 0.25µm
 Rtx-5 (cat.#10223)
Carrier Gas:
 hydrogen-constant pressure 10 psi.

Temp. Program:
 40°C (hold 2 min.) to 330°C
 @ 10°C/min. (hold 10 min.)

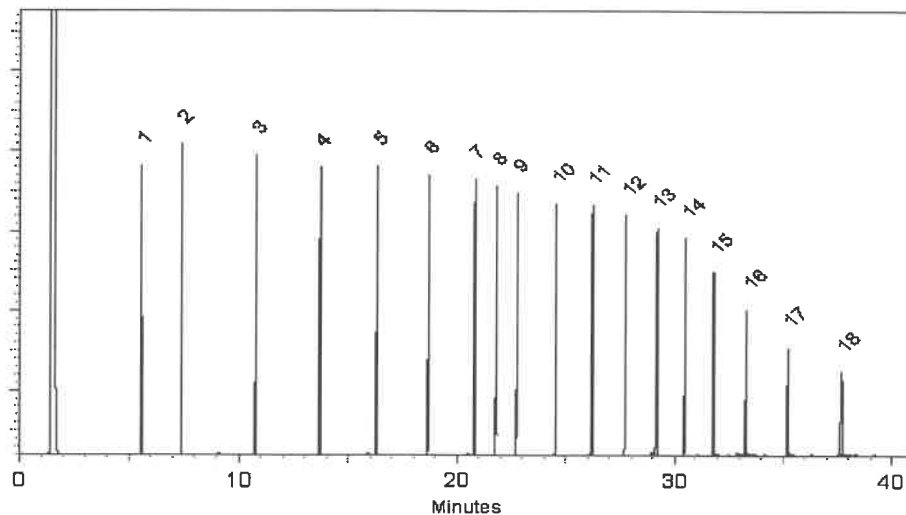
Inj. Temp:
 250°C

Det. Temp:
 330°C

Det. Type:
 FID

Split Vent:
 2 ml/min.

Inj. Vol
 1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin
 Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505

Jennifer Pollino
 Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2031 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

P13800
↓
P13829 } YIP
12/09/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Nonane (C9)	111-84-2	SHBP9752	99%	200.7 µg/mL	+/- 5.1839
2	n-Decane (C10)	124-18-5	SHBQ1342	99%	201.0 µg/mL	+/- 5.1917
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.5 µg/mL	+/- 5.1805
4	n-Tetradecane (C14)	629-59-4	STBL0465	99%	200.5 µg/mL	+/- 5.1805
5	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	200.7 µg/mL	+/- 5.1857
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.7 µg/mL	+/- 5.1857
7	n-Eicosane (C20)	112-95-8	MKCN8767	97%	200.9 µg/mL	+/- 5.1888
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.5 µg/mL	+/- 5.1805
9	n-Docosane (C22)	629-97-0	MKCQ3882	99%	200.5 µg/mL	+/- 5.1788
10	n-Tetracosane (C24)	646-31-1	MKCS9978	99%	200.6 µg/mL	+/- 5.1822
11	n-Hexacosane (C26)	630-01-3	MKCQ4814	99%	200.5 µg/mL	+/- 5.1796
12	n-Octacosane (C28)	630-02-4	BCCJ4566	99%	200.6 µg/mL	+/- 5.1822
13	n-Triacontane (C30)	638-68-6	MKCV7007	98%	201.1 µg/mL	+/- 5.1942
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.9 µg/mL	+/- 5.1891
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.8 µg/mL	+/- 5.1865
16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	199.3 µg/mL	+/- 5.1477

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: n-Pentane
CAS # 109-66-0
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

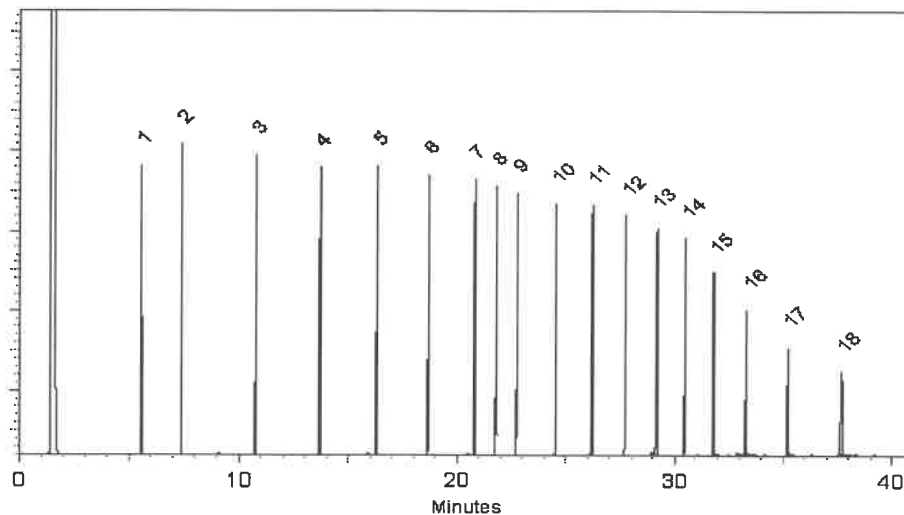
Inj. Temp:
250°C

Det. Temp:
330°C

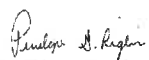
Det. Type:
FID

Split Vent:
2 ml/min.

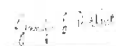
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 03-Oct-2024 **Balance Serial #** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 07-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, 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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

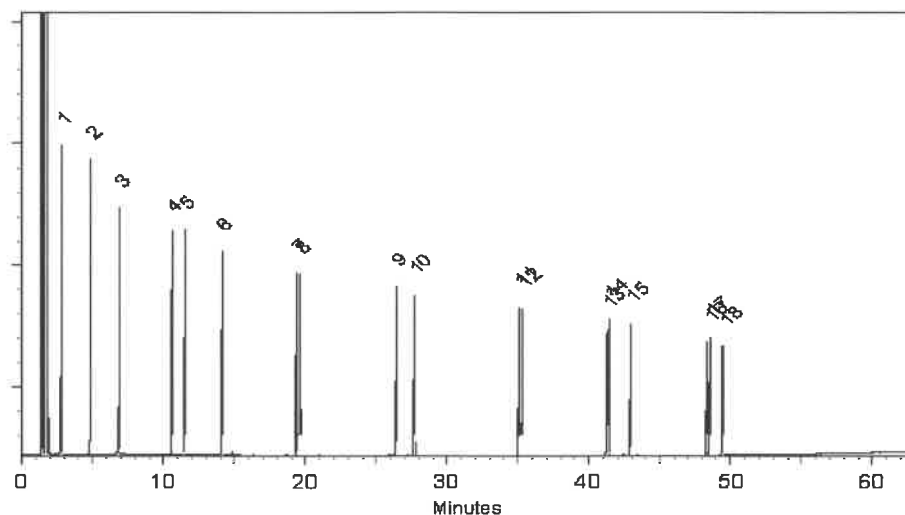
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

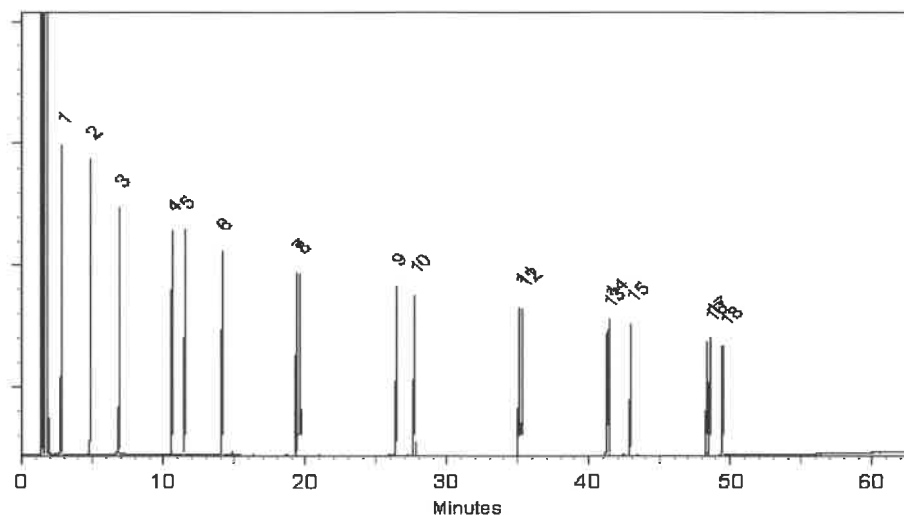
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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
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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

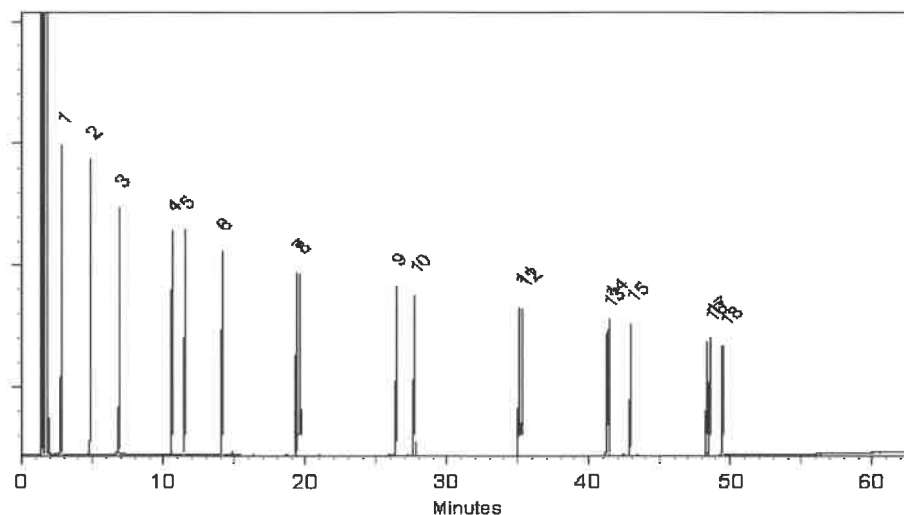
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix
NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
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11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

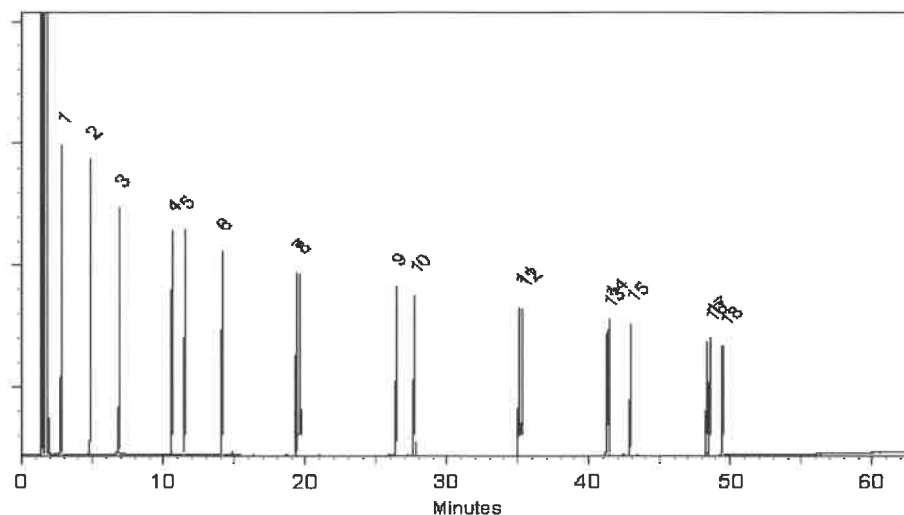
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Manufacturing Notes:

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Handling Notes:

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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix
NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
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3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
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9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
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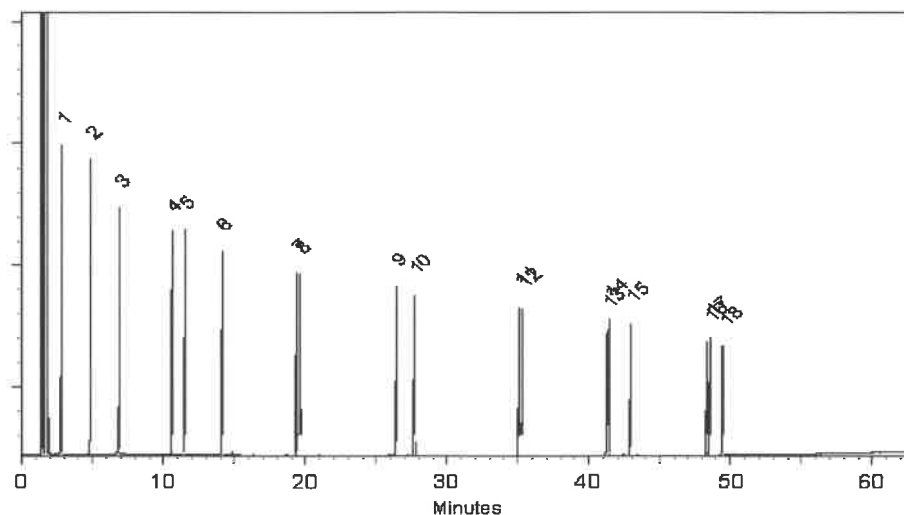
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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Catalog No. : 30543 **Lot No.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix
NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
2	Naphthalene	91-20-3	STBL1057	99%	200.0 µg/mL	+/- 9.0114
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V18H	95%	199.1 µg/mL	+/- 8.9717
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

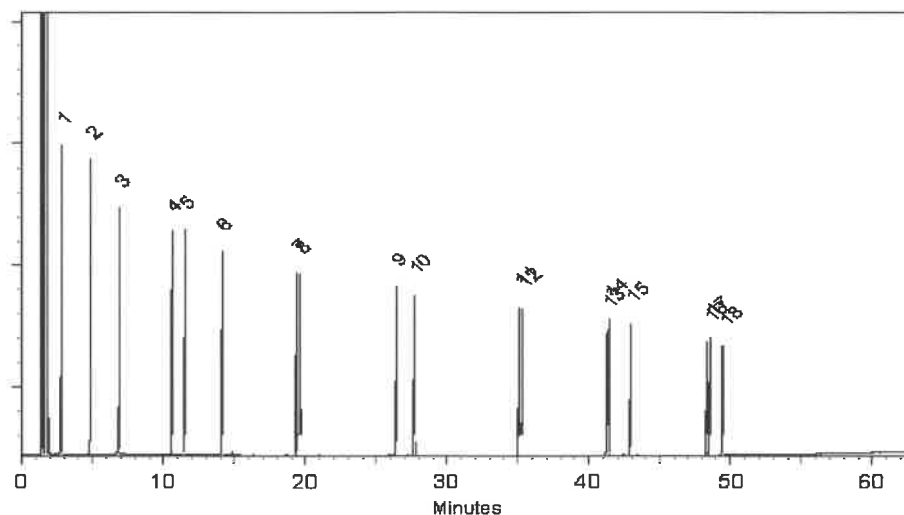
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- 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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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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.:** A0217838

Description : NJEPH Aromatics Matrix Spike Mix
NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13835
2
P13860 } Y-P.
12/09/12

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	201.6 µg/mL	+/- 9.0835
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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.)

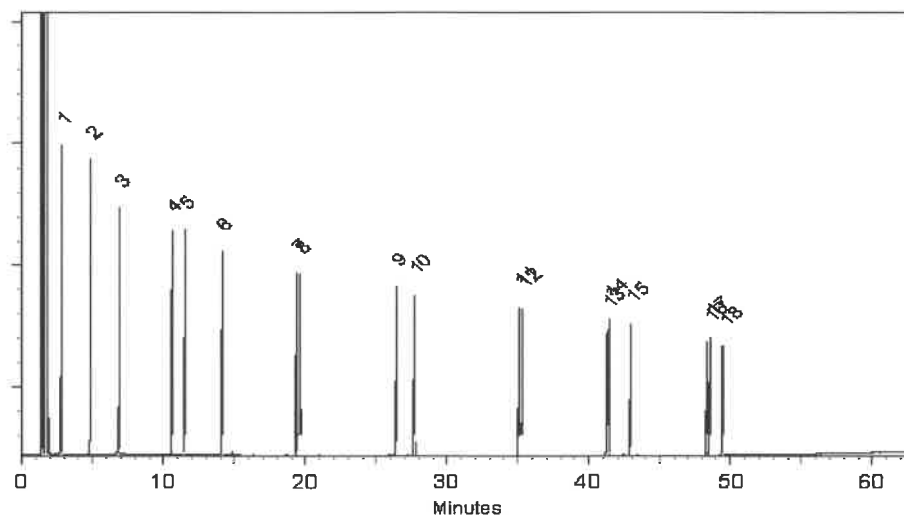
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Inj. Vol
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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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Catalog No. : 30543 **Lot No.:** A0217838

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NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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P13835
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P13860 } Y-P.
12/09/12

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Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

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30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

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100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)

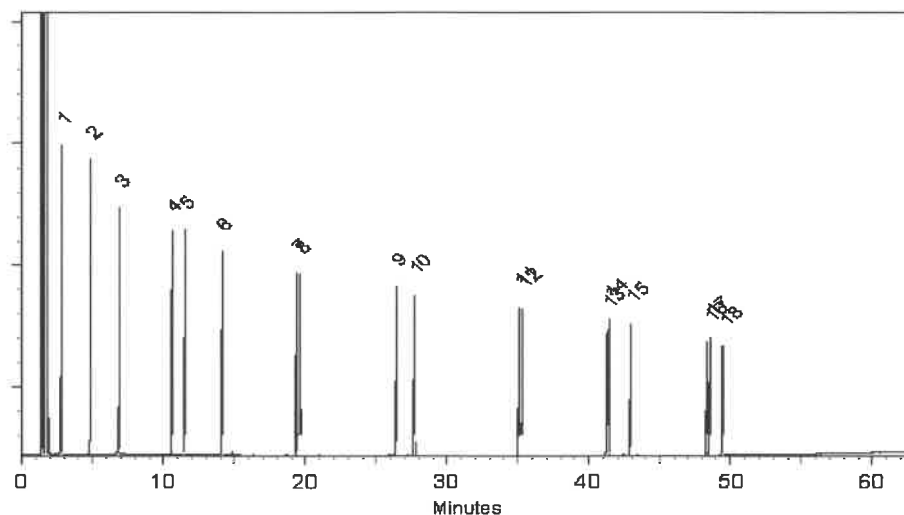
Inj. Temp:
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Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Rebecca Gingerich
Rebecca Gingerich - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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

Jamie Croak
Director Quality Operations, Bioscience Production



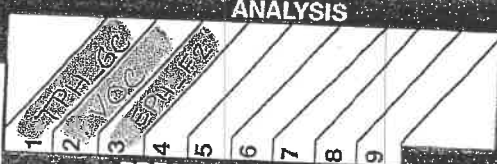
SHIPPING DOCUMENTS

CHEMTECH CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

248 Union St, Lodi

Chemtech Project Number Q1542
COC Number

CLIENT INFORMATION				PROJECT INFORMATION				BILLING INFORMATION								
Report to be sent to:				PROJECT NAME:				BILL TO:								
COMPANY:				PROJECT #:				ADDRESS:								
ADDRESS:				LOCATION:				CITY:								
CITY:				PROJECT MANAGER:				ATTENTION:								
STATE:				E-MAIL:				STATE:								
ZIP:				PHONE:				ZIP:								
PHONE:				FAX:				PHONE:								
FAX:				FAX:				FAX:								
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				ANALYSIS								
FAX (RUSH) _____ DAYS*				☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data) ☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP ☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ EDD FORMAT ☐ Other _____												
HARDCOPY (DATA PACKAGE): _____ DAYS*																
EDD: _____ DAYS*																
*TO BE APPROVED BY CHEMTECH																
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS																
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles	PRESERVATIVES									COMMENTS	
			COMP	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	WASTE			3-10	2:45	1										
2.	VOC			3-10	2:45	1										
3.	1			3-10	2:45	1										
4.	2			3-10	2:45	1										
5.	3			3-10	2:45	1										
6.	4			3-10	2:45	1										
7.	5			3-10	2:45	1										
8.	6			3-10	2:45	1										
9.				3-10	2:45	1										
10.				3-10	2:45	1										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or collars at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>7-2°</u>										
1.		3-11-25		3-11-25		Comments:										
RELINQUISHED BY		DATE/TIME		RECEIVED BY												
2.		3-11-25		3-11-25												
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY												
3.		3-11-25		3-11-25												
Page _____ of _____						CLIENT: ☐ Hand Delivered ☐ Other: _____						Shipment Complete ☐ YES ☐ NO				
CHEMTECH: ☐ Picked Up																

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

100g tank

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1542	SCIA01	Order Date : 3/11/2025 11:00:00 AM	Project Mgr :
Client Name : Sciacca General Contractor		Project Name : 248 Union St., Lodi	Report Type : Results Only
Client Contact : Rosanne Scirica		Receive Date/Time : 3/11/2025 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Sciacca General Contractor		Purchase Order : 11:13am	Hard Copy Date :
Invoice Contact : Rosanne Scirica			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1542-02	VOC	Solid	03/10/2025	08:30	VOC-TCLVOA-10		8260D	10 Bus. Days	

JAR

stored in r2A
Fr 2702

Relinquished By :

Date / Time :

[Signature]
3-11-25 1150

Received By :

Date / Time :

[Signature]
3-11-25 12:50

Storage Area : VOA Refridgerator Room