

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

LAB CHRONICLE

OrderID:	Q1290	OrderDate:	2/4/2025 2:25:00 PM
Client:	Sciacca General Contractors, LLC	Project:	305 Central Ave, West Caldwell
Contact:	Rosanne Scirica	Location:	D11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1290-03	1	Solid	EPH_F2	NJEPH	02/04/25	02/05/25	02/05/25	02/04/25
Q1290-04	2	Solid	EPH_F2	NJEPH	02/04/25	02/05/25	02/05/25	02/04/25
Q1290-05	3	Solid	EPH_F2	NJEPH	02/04/25	02/05/25	02/05/25	02/04/25
Q1290-06	4	Solid	EPH_F2	NJEPH	02/04/25	02/05/25	02/05/25	02/04/25
Q1290-07	5	Solid	EPH_F2	NJEPH	02/04/25	02/05/25	02/05/25	02/04/25



QC SUMMARY

SOIL EPH SURROGATE RECOVERY

Lab Name: CHEMTECH Contract: SCIA01
Lab Code: CHEM CASE No.: Q1290 SAS No.: Q1290 SDG No.: Q1290
Run Number: FC020525AL

Client SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB166564BL	79	76		0
PB166564BS	78	73		0
PB166564BSD	79	74		0
1	65	63		0
1MS	56	53		0
1MSD	58	55		0
2	56	52		0
3	49	45		0
4	71	62		0
5	53	51		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:** Q1290 **SAS No :** Q1290 **SDG No:** Q1290
Sample No : Q1290-03MS **Datafile:** FC068197.D
Client ID : 1MS

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	35.5	11.1	42.0	87		(40-140)
Aliphatic C9-C28	118.2	6.56	89.0	70		(40-140)

SOLID EPH_F2 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Chemtech **Client:** Sciacca General Contractors, LLC
Lab Code: CHEM **Cas No:** Q1290 **SAS No :** Q1290 **SDG No:** Q1290
Sample No : Q1290-03MSD **Datafile:** FC068198.D
Client ID : 1MSD

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	35.5	11.1	42.6	89		1.82 (40-140) 25
Aliphatic C9-C28	118.4	6.56	89.7	70		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:** Q1290 **SAS No :** Q1290 **SDG No:** Q1290
Sample No : PB166564BS **Datafile:** FC068194.D
Client ID : PB166564BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS
Aliphatic C28-C40	30.0	21.8	73		(40-140)
Aliphatic C9-C28	99.9	70.3	71		(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:** Q1290 **SAS No :** Q1290 **SDG No:** Q1290
Sample No : PB166564BSD **Datafile:** FC068195.D
Client ID : PB166564BSD

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS	QC Limit Of RPD
Aliphatic C28-C40	30.0	22.3	74		2.3 (40-140)	50
Aliphatic C9-C28	99.9	71.0	72		1 (40-140)	50

4B
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166564BL

Lab Name: CHEMTECH

Contract: SCIA01

Lab Code: CHEM Case No.: Q1290

SAS No.: Q1290 SDG NO.: Q1290

Instrument ID: FID_C

Lab Sample ID: PB166564BL

Matrix: (soil/water) Solid

Date Extracted: 2/5/2025 9:25:00 AM

Level: (low/med) low

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

EPA SAMPLE NO.	LAB SAMPLE ID
PB166564BS	PB166564BS
1	Q1290-03
1MS	Q1290-03MS
1MSD	Q1290-03MSD
PB166564BSD	PB166564BSD
2	Q1290-04
3	Q1290-05
4	Q1290-06
5	Q1290-07

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	1	SDG No.:	Q1290
Lab Sample ID:	Q1290-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
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
02/05/25 09:25	02/05/25 15:22	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	6.56		1	2.04	4.73	mg/kg	FC068196.D
Total EPH	Total EPH	6.56			2.04	4.73	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:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	1	SDG No.:	Q1290
Lab Sample ID:	Q1290-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
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
FC068196.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.56		2.04	4.73	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.1		2.13	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.6		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-03	Acq On:	05 Feb 2025 15:22
Client Sample ID:	1	Operator:	YP/AJ
Data file:	FC068196.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	409367	2.956	300	ug/ml
Aliphatic C12-C16	6.378	9.761	962003	6.986	200	ug/ml
Aliphatic C16-C21	9.762	13.114	3298444	24.429	300	ug/ml
Aliphatic C21-C28	13.115	16.766	6585975	51.773	400	ug/ml
Aliphatic C28-C40	16.767	21.570	14593638	140.812	600	ug/ml
Aliphatic EPH	3.110	21.570	25849427	226.957		ug/ml
ortho-Terphenyl (SURR)	11.404	11.404	4900437	31.36		ug/ml
1-chlorooctadecane (SURR)	12.845	12.845	3754413	32.65		ug/ml
Aliphatic C9-C28	3.110	16.766	11255789	86.144	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068196.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 15:22
 Operator : YP/AJ
 Sample : Q1290-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:12:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.404	4900437	31.359 ug/mlm
Spiked Amount 50.000		Recovery =	62.72%
12) S 1-chlorooctadecane (S...	12.845	3754413	32.646 ug/ml
Spiked Amount 50.000		Recovery =	65.29%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068196.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 15:22
Operator : YP/AJ
Sample : Q1290-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

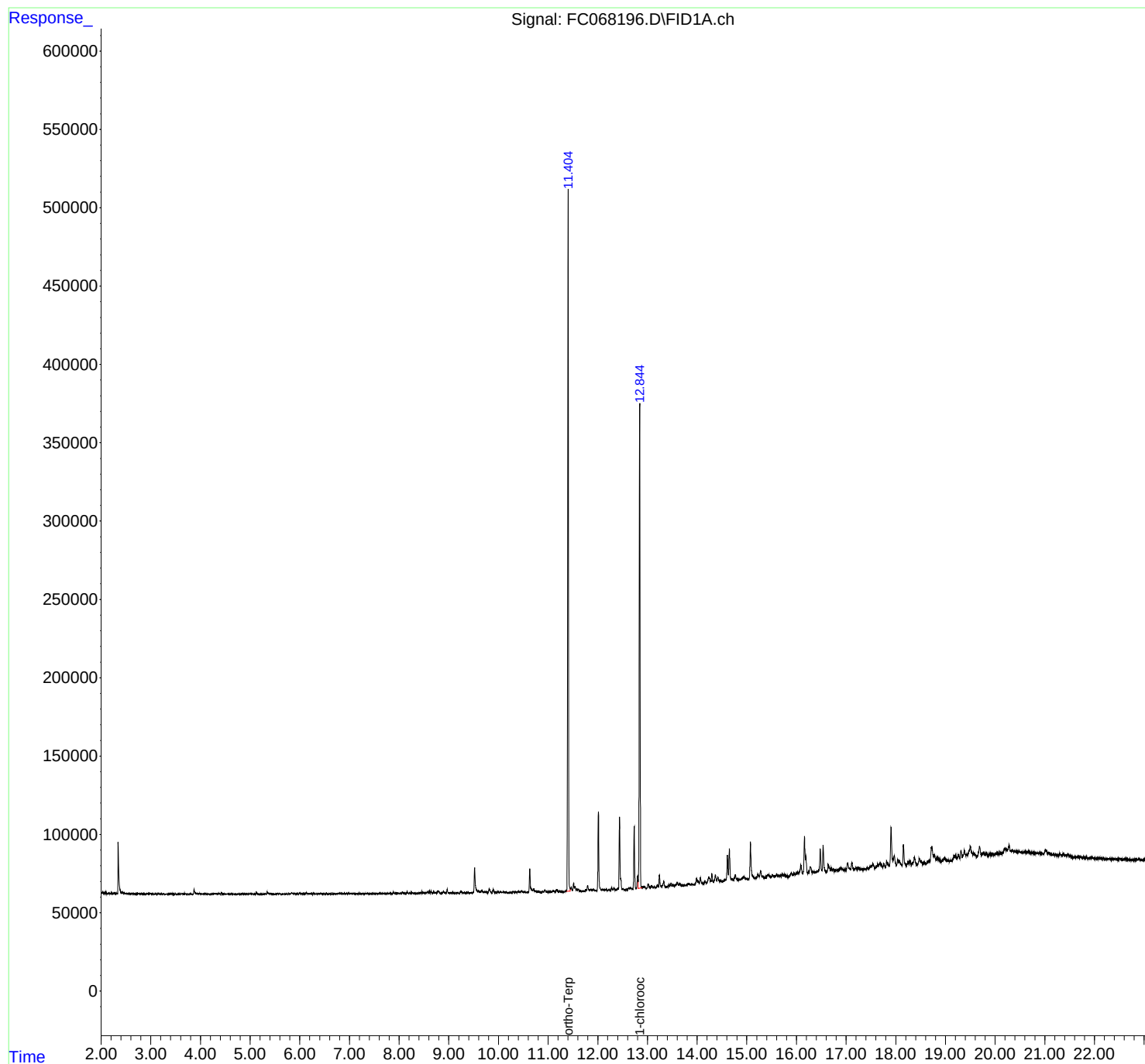
Instrument :
FID_C
ClientSampleId :
1

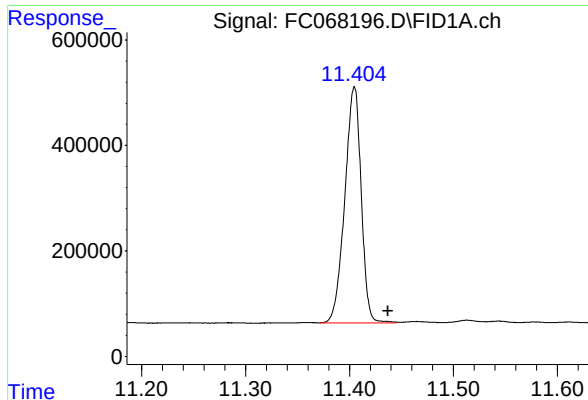
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:12:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





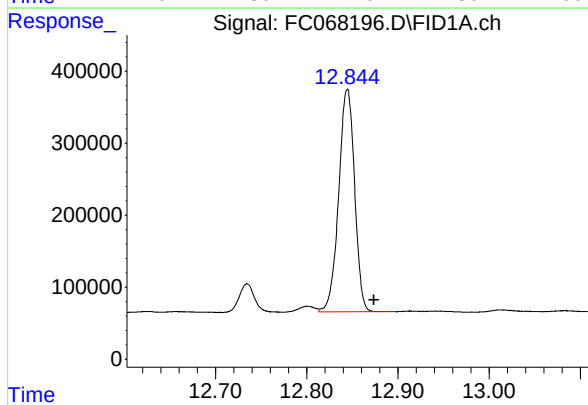
#9 ortho-Terphenyl (SURR)

R.T.: 11.404 min
Delta R.T.: -0.033 min
Response: 4900437
Conc: 31.36 ug/ml

Instrument :
FID_C
ClientSampleId :
1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#12 1-chlorooctadecane (SURR)

R.T.: 12.845 min
Delta R.T.: -0.029 min
Response: 3754413
Conc: 32.65 ug/ml

rteres

Instrument :

FID_C

ClientSampleId :

1

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068196.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 15:22
Sample : Q1290-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.149	3.078	3.194	PV	139	4586	0.09%	0.013%
2	3.209	3.194	3.241	VV	244	3965	0.08%	0.011%
3	3.259	3.241	3.269	VV	99	1075	0.02%	0.003%
4	3.308	3.269	3.344	VV	132	3529	0.07%	0.010%
5	3.359	3.344	3.368	VV	119	1125	0.02%	0.003%
6	3.408	3.368	3.428	PV	143	2771	0.06%	0.008%
7	3.441	3.428	3.458	VV	199	1666	0.03%	0.005%
8	3.468	3.458	3.484	VV	158	1228	0.02%	0.004%
9	3.503	3.484	3.558	VV	302	5491	0.11%	0.016%
10	3.583	3.558	3.611	VV	178	3896	0.08%	0.011%
11	3.637	3.611	3.711	VV	189	6382	0.13%	0.018%
12	3.715	3.711	3.767	VV	155	2640	0.05%	0.008%
13	3.805	3.767	3.848	VV	147	4735	0.10%	0.014%
14	3.871	3.848	3.924	PV	3074	46997	0.95%	0.136%
15	3.938	3.924	3.952	VV	508	6807	0.14%	0.020%
16	3.964	3.952	4.027	VV	411	12731	0.26%	0.037%
17	4.037	4.027	4.058	VV	256	3923	0.08%	0.011%
18	4.077	4.058	4.134	VV	409	9687	0.20%	0.028%
19	4.145	4.134	4.173	VV	207	2427	0.05%	0.007%
20	4.229	4.173	4.238	VV	165	3848	0.08%	0.011%
21	4.242	4.238	4.249	VV	145	725	0.01%	0.002%
22	4.268	4.249	4.286	VV	356	4569	0.09%	0.013%
23	4.305	4.286	4.354	VV	388	10776	0.22%	0.031%
24	4.368	4.354	4.393	VV	276	4257	0.09%	0.012%
25	4.420	4.393	4.471	VV	1053	16694	0.34%	0.048%
26	4.477	4.471	4.511	VV	211	4406	0.09%	0.013%
27	4.519	4.511	4.601	VV	190	6439	0.13%	0.019%
28	4.606	4.601	4.624	VV	116	1300	0.03%	0.004%
29	4.633	4.624	4.655	VV	190	2054	0.04%	0.006%
30	4.678	4.655	4.704	VV	145	2819	0.06%	0.008%
31	4.729	4.704	4.738	VV	170	2097	0.04%	0.006%
32	4.773	4.738	4.785	VV	223	3029	0.06%	0.009%
33	4.791	4.785	4.810	VV	64	677	0.01%	0.002%
34	4.852	4.810	4.878	PV	323	7841	0.16%	0.023%
35	4.906	4.878	4.928	VV	232	3391	0.07%	0.010%
36	4.939	4.928	4.984	VV	193	5057	0.10%	0.015%

					retention	area	conc	conc
37	4.990	4.984	5.001	VV	155	1425	0.03%	0.004%
38	5.024	5.001	5.061	VV	189	4972	0.04%	0.012%
39	5.064	5.061	5.088	VV	160	1449	0.03%	0.004%
40	5.125	5.088	5.174	VV	1394	23779	0.31%	0.044%
41	5.186	5.174	5.232	VV	193	4411	0.05%	0.007%
42	5.245	5.232	5.278	PV	135	1983	0.02%	0.003%
43	5.301	5.278	5.328	VV	287	4214	0.09%	0.012%
44	5.345	5.328	5.408	VV	1437	32310	0.65%	0.093%
45	5.416	5.408	5.443	VV	337	5476	0.11%	0.016%
46	5.462	5.443	5.518	VV	262	7822	0.16%	0.023%
47	5.549	5.518	5.566	VV	259	5215	0.11%	0.015%
48	5.574	5.566	5.621	VV	238	5199	0.10%	0.015%
49	5.682	5.621	5.721	VV	203	7101	0.14%	0.021%
50	5.745	5.721	5.765	VV	271	4441	0.09%	0.013%
51	5.775	5.765	5.807	VV	236	4571	0.09%	0.013%
52	5.837	5.807	5.888	VV	824	22179	0.45%	0.064%
53	5.894	5.888	5.926	VV	364	5638	0.11%	0.016%
54	5.950	5.926	5.969	VV	267	5128	0.10%	0.015%
55	6.002	5.969	6.046	VV	721	15134	0.31%	0.044%
56	6.061	6.046	6.107	VV	233	5700	0.12%	0.016%
57	6.132	6.107	6.235	VV	778	26775	0.54%	0.077%
58	6.243	6.235	6.260	VV	187	2099	0.04%	0.006%
59	6.279	6.260	6.333	VV	267	6706	0.14%	0.019%
60	6.378	6.333	6.460	VV	431	19309	0.39%	0.056%
61	6.471	6.460	6.491	VV	172	2579	0.05%	0.007%
62	6.497	6.491	6.505	VV	135	1045	0.02%	0.003%
63	6.513	6.505	6.521	VV	155	1048	0.02%	0.003%
64	6.555	6.521	6.586	VV	237	5810	0.12%	0.017%
65	6.600	6.586	6.638	VV	187	3052	0.06%	0.009%
66	6.670	6.638	6.734	VV	221	7911	0.16%	0.023%
67	6.775	6.734	6.784	VV	389	7712	0.16%	0.022%
68	6.801	6.784	6.822	VV	411	8060	0.16%	0.023%
69	6.833	6.822	6.867	VV	337	6855	0.14%	0.020%
70	6.895	6.867	6.925	VV	425	10171	0.21%	0.029%
71	6.973	6.925	7.012	VV	546	13532	0.27%	0.039%
72	7.029	7.012	7.057	VV	324	5142	0.10%	0.015%
73	7.071	7.057	7.121	VV	253	6780	0.14%	0.020%
74	7.136	7.121	7.157	VV	273	3547	0.07%	0.010%
75	7.200	7.157	7.303	VV	494	14459	0.29%	0.042%
76	7.322	7.303	7.337	PV	218	2446	0.05%	0.007%
77	7.367	7.337	7.408	VV	293	5545	0.11%	0.016%
78	7.477	7.408	7.495	VV	357	6866	0.14%	0.020%
79	7.509	7.495	7.524	VV	108	1651	0.03%	0.005%
80	7.533	7.524	7.545	PV	119	1102	0.02%	0.003%
81	7.558	7.545	7.573	VV	149	1687	0.03%	0.005%
82	7.595	7.573	7.604	VV	378	4153	0.08%	0.012%
83	7.620	7.604	7.683	VV	487	14649	0.30%	0.042%
84	7.697	7.683	7.747	VV	282	7387	0.15%	0.021%
85	7.766	7.747	7.773	VV	261	3358	0.07%	0.010%
86	7.791	7.773	7.805	VV	361	5374	0.11%	0.016%
87	7.819	7.805	7.844	VV	463	6375	0.13%	0.018%
88	7.885	7.844	7.908	VV	1075	15367	0.31%	0.044%
89	7.928	7.908	7.951	VV	446	8085	0.16%	0.023%

Instrument :

FID_C

ClientSampleId :

1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

90	7.978	7.951	8.000	VV	497	9581	0.19%	0.028%
91	8.016	8.000	8.039	VV	334	5933		
92	8.066	8.039	8.104	VV	1020	17828		
93	8.114	8.104	8.124	VV	243	2255		
94	8.165	8.124	8.201	VV	1210	22047		
95	8.210	8.201	8.226	VV	381	4688		
96	8.245	8.226	8.334	VV	862	19626	0.40%	0.057%
97	8.349	8.334	8.372	VV	230	3628	0.07%	0.010%
98	8.395	8.372	8.404	VV	327	3592	0.07%	0.010%
99	8.419	8.404	8.437	VV	484	6844	0.14%	0.020%
100	8.458	8.437	8.494	VV	1129	20318	0.41%	0.059%
101	8.507	8.494	8.524	VV	433	7415	0.15%	0.021%
102	8.543	8.524	8.550	VV	515	6951	0.14%	0.020%
103	8.570	8.550	8.586	VV	1509	20183	0.41%	0.058%
104	8.608	8.586	8.627	VV	1640	24874	0.50%	0.072%
105	8.645	8.627	8.670	VV	1534	20277	0.41%	0.059%
106	8.694	8.670	8.721	VV	871	16727	0.34%	0.048%
107	8.742	8.721	8.757	VV	657	9924	0.20%	0.029%
108	8.779	8.757	8.788	VV	1472	18280	0.37%	0.053%
109	8.797	8.788	8.834	VV	1671	20280	0.41%	0.059%
110	8.851	8.834	8.864	VV	232	3053	0.06%	0.009%
111	8.896	8.864	8.948	VV	1144	26745	0.54%	0.077%
112	8.969	8.948	9.011	VV	2695	33557	0.68%	0.097%
113	9.025	9.011	9.051	VV	225	3604	0.07%	0.010%
114	9.074	9.051	9.127	VV	499	9489	0.19%	0.027%
115	9.159	9.127	9.201	PV	232	4344	0.09%	0.013%
116	9.241	9.201	9.304	VV	1015	26561	0.54%	0.077%
117	9.317	9.304	9.362	VV	382	8681	0.18%	0.025%
118	9.390	9.362	9.428	VV	375	8477	0.17%	0.025%
119	9.445	9.428	9.464	VV	243	4304	0.09%	0.012%
120	9.521	9.464	9.640	VV	16172	298647	6.03%	0.863%
121	9.665	9.640	9.713	VV	1904	47570	0.96%	0.138%
122	9.731	9.713	9.788	VV	826	24663	0.50%	0.071%
123	9.814	9.788	9.865	VV	2838	53562	1.08%	0.155%
124	9.897	9.865	9.964	VV	2302	39225	0.79%	0.113%
125	9.988	9.964	10.011	VV	1000	14721	0.30%	0.043%
126	10.047	10.011	10.071	VV	682	14407	0.29%	0.042%
127	10.104	10.071	10.168	VV	608	22023	0.44%	0.064%
128	10.186	10.168	10.213	VV	308	4582	0.09%	0.013%
129	10.235	10.213	10.265	VV	279	4850	0.10%	0.014%
130	10.296	10.265	10.333	VV	836	18600	0.38%	0.054%
131	10.350	10.333	10.374	VV	531	8939	0.18%	0.026%
132	10.397	10.374	10.417	VV	1077	15999	0.32%	0.046%
133	10.438	10.417	10.448	VV	786	11788	0.24%	0.034%
134	10.466	10.448	10.521	VV	1253	26134	0.53%	0.076%
135	10.531	10.521	10.552	VV	356	4283	0.09%	0.012%
136	10.632	10.552	10.664	VV	15388	208015	4.20%	0.601%
137	10.674	10.664	10.692	VV	2001	27695	0.56%	0.080%
138	10.711	10.692	10.804	VV	2380	65792	1.33%	0.190%
139	10.827	10.804	10.846	VV	372	7640	0.15%	0.022%
140	10.851	10.846	10.873	VV	308	3998	0.08%	0.012%
141	10.894	10.873	10.912	VV	612	9278	0.19%	0.027%

Instrument :

FID_C

ClientSampleId :

1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Project Details						Financials		Performance	
Item ID	Category	Sub-Category	Item Name	Unit	Quantity	Unit Price	Total Price	Actual Cost	Profit Margin
142	10.933	10.912	11.011	VV	1571	33926	0.69%	0.098%	
143	11.028	11.011	11.051	VV	569	9556	0.69%	0.098%	
144	11.068	11.051	11.077	VV	421	5434	0.69%	0.098%	
145	11.096	11.077	11.111	VV	1102	14167	0.69%	0.098%	
146	11.120	11.111	11.144	VV	765	11061	0.69%	0.098%	
147	11.175	11.144	11.211	VV	1757	37742	0.69%	0.098%	
148	11.245	11.211	11.264	VV	629	13139	0.27%	0.038%	
149	11.286	11.264	11.310	VV	795	9892	0.20%	0.029%	
150	11.404	11.310	11.450	PV	449106	4951574	100.00%	14.315%	
151	11.464	11.450	11.490	VV	2945	48163	0.97%	0.139%	
152	11.513	11.490	11.531	VV	5363	77920	1.57%	0.225%	
153	11.543	11.531	11.564	VV	3690	48574	0.98%	0.140%	
154	11.578	11.564	11.595	VV	1841	25027	0.51%	0.072%	
155	11.611	11.595	11.668	VV	1802	30005	0.61%	0.087%	
156	11.699	11.668	11.714	VV	395	7372	0.15%	0.021%	
157	11.765	11.714	11.775	VV	1166	22263	0.45%	0.064%	
158	11.796	11.775	11.838	VV	3779	70155	1.42%	0.203%	
159	11.853	11.838	11.888	VV	1051	24949	0.50%	0.072%	
160	11.907	11.888	11.946	VV	1406	29050	0.59%	0.084%	
161	11.961	11.946	11.981	VV	472	6930	0.14%	0.020%	
162	12.013	11.981	12.087	VV	50391	634361	12.81%	1.834%	
163	12.103	12.087	12.131	VV	867	16799	0.34%	0.049%	
164	12.142	12.131	12.157	VV	555	7991	0.16%	0.023%	
165	12.173	12.157	12.195	VV	721	11183	0.23%	0.032%	
166	12.220	12.195	12.257	VV	751	15023	0.30%	0.043%	
167	12.281	12.257	12.301	PV	1974	25951	0.52%	0.075%	
168	12.326	12.301	12.348	VV	1853	29542	0.60%	0.085%	
169	12.363	12.348	12.378	VV	624	10182	0.21%	0.029%	
170	12.401	12.378	12.413	VV	1476	21310	0.43%	0.062%	
171	12.440	12.413	12.497	VV	46623	643549	13.00%	1.861%	
172	12.512	12.497	12.532	VV	690	9990	0.20%	0.029%	
173	12.544	12.532	12.561	VV	335	3120	0.06%	0.009%	
174	12.577	12.561	12.591	VV	389	3624	0.07%	0.010%	
175	12.624	12.591	12.641	PV	1536	24338	0.49%	0.070%	
176	12.658	12.641	12.703	VV	1313	29626	0.60%	0.086%	
177	12.735	12.703	12.773	VV	39912	466991	9.43%	1.350%	
178	12.801	12.773	12.813	VV	8496	112088	2.26%	0.324%	
179	12.845	12.813	12.897	VV	310497	3788970	76.52%	10.954%	
180	12.914	12.897	12.931	VV	1633	25483	0.51%	0.074%	
181	12.944	12.931	12.984	VV	1487	24838	0.50%	0.072%	
182	13.014	12.984	13.059	PV	2959	61497	1.24%	0.178%	
183	13.083	13.059	13.117	VV	1773	34102	0.69%	0.099%	
184	13.137	13.117	13.171	VV	1170	19543	0.39%	0.056%	
185	13.198	13.171	13.221	VV	2083	31998	0.65%	0.093%	
186	13.240	13.221	13.275	VV	8287	111932	2.26%	0.324%	
187	13.327	13.275	13.375	VV	3769	81704	1.65%	0.236%	
188	13.396	13.375	13.408	VV	496	6292	0.13%	0.018%	
189	13.437	13.408	13.458	VV	1689	29116	0.59%	0.084%	
190	13.473	13.458	13.494	VV	2507	33474	0.68%	0.097%	
191	13.514	13.494	13.535	VV	1495	23933	0.48%	0.069%	
192	13.599	13.535	13.624	VV	2819	71167	1.44%	0.206%	
193	13.646	13.624	13.711	VV	1898	48646	0.98%	0.141%	
194	13.729	13.711	13.755	VV	656	11343	0.23%	0.033%	

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

195	13.827	13.755	13.873	VV	1424	52113	1.05%	0.151%
196	13.891	13.873	13.922	VV	987	18671		
197	13.934	13.922	13.947	VV	537	6278		
198	13.987	13.947	14.043	VV	4507	127124		
199	14.065	14.043	14.108	VV	4545	88002		
200	14.160	14.108	14.191	VV	2151	60069		
201	14.237	14.191	14.273	VV	4438	134545	2.72%	0.389%
202	14.297	14.273	14.324	VV	6438	102086	2.06%	0.295%
203	14.367	14.324	14.396	VV	5601	126825	2.56%	0.367%
204	14.416	14.396	14.461	VV	4187	96887	1.96%	0.280%
205	14.482	14.461	14.513	VV	2066	44743	0.90%	0.129%
206	14.562	14.513	14.580	VV	2504	68577	1.38%	0.198%
207	14.609	14.580	14.629	VV	17657	259069	5.23%	0.749%
208	14.649	14.629	14.682	VV	21578	325080	6.57%	0.940%
209	14.701	14.682	14.726	VV	2428	56360	1.14%	0.163%
210	14.769	14.726	14.794	VV	4871	119171	2.41%	0.345%
211	14.803	14.794	14.826	VV	2271	32792	0.66%	0.095%
212	14.919	14.826	14.933	VV	3026	119722	2.42%	0.346%
213	14.945	14.933	15.032	VV	3093	117648	2.38%	0.340%
214	15.073	15.032	15.173	VV	24860	525298	10.61%	1.519%
215	15.226	15.173	15.249	VV	4023	123136	2.49%	0.356%
216	15.278	15.249	15.308	VV	6105	139306	2.81%	0.403%
217	15.319	15.308	15.349	VV	2805	51874	1.05%	0.150%
218	15.359	15.349	15.374	VV	1698	21687	0.44%	0.063%
219	15.421	15.374	15.494	VV	3449	171667	3.47%	0.496%
220	15.516	15.494	15.567	VV	2889	95679	1.93%	0.277%
221	15.607	15.567	15.629	VV	2985	86350	1.74%	0.250%
222	15.651	15.629	15.667	VV	2709	49275	1.00%	0.142%
223	15.714	15.667	15.737	VV	3528	98884	2.00%	0.286%
224	15.756	15.737	15.803	VV	2605	80527	1.63%	0.233%
225	15.814	15.803	15.831	VV	1629	21116	0.43%	0.061%
226	15.898	15.831	15.932	VV	3343	120405	2.43%	0.348%
227	15.952	15.932	15.971	VV	3190	58514	1.18%	0.169%
228	16.006	15.971	16.016	VV	3049	71203	1.44%	0.206%
229	16.035	16.016	16.052	VV	3501	67558	1.36%	0.195%
230	16.088	16.052	16.126	VV	7913	216649	4.38%	0.626%
231	16.160	16.126	16.231	VV	26140	632412	12.77%	1.828%
232	16.239	16.231	16.247	VV	2909	27766	0.56%	0.080%
233	16.282	16.247	16.315	VV	6364	178206	3.60%	0.515%
234	16.348	16.315	16.371	VV	2979	92416	1.87%	0.267%
235	16.377	16.371	16.398	VV	2807	43379	0.88%	0.125%
236	16.418	16.398	16.428	VV	3270	55276	1.12%	0.160%
237	16.478	16.428	16.510	VV	17349	355475	7.18%	1.028%
238	16.536	16.510	16.605	VV	19479	390248	7.88%	1.128%
239	16.641	16.605	16.688	VV	6975	222234	4.49%	0.642%
240	16.707	16.688	16.728	VV	4577	92451	1.87%	0.267%
241	16.740	16.728	16.764	VV	4054	72074	1.46%	0.208%
242	16.786	16.764	16.803	VV	3410	66970	1.35%	0.194%
243	16.834	16.803	16.858	VV	3168	96205	1.94%	0.278%
244	16.905	16.858	16.984	VV	4053	248280	5.01%	0.718%
245	16.989	16.984	16.994	VV	2933	16777	0.34%	0.049%
246	17.031	16.994	17.088	VV	7064	244031	4.93%	0.705%

Instrument :

FID_C

ClientSampleId :

1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

							Manual Integration	
							Reviewed By : Yogesh	
							Supervised By : Arun	
247	17.115	17.088	17.177	VV	7249	220371	4.45%	0.637%
248	17.195	17.177	17.224	VV	3788	94646		
249	17.242	17.224	17.250	VV	3234	46986		
250	17.268	17.250	17.398	VV	3470	223465		
251	17.430	17.398	17.453	VV	2982	87194		
252	17.534	17.453	17.581	VV	5138	288306		
253	17.635	17.581	17.658	VV	4947	171270	3.46%	0.495%
254	17.687	17.658	17.737	VV	5638	211352	4.27%	0.611%
255	17.759	17.737	17.788	VV	4960	109892	2.22%	0.318%
256	17.816	17.788	17.831	VV	6295	118828	2.40%	0.344%
257	17.839	17.831	17.863	VV	4828	81294	1.64%	0.235%
258	17.903	17.863	17.946	VV	27968	588487	11.88%	1.701%
259	17.969	17.946	18.014	VV	9620	261725	5.29%	0.757%
260	18.039	18.014	18.055	VV	6821	132037	2.67%	0.382%
261	18.074	18.055	18.126	VV	5974	196443	3.97%	0.568%
262	18.153	18.126	18.221	VV	16158	357079	7.21%	1.032%
263	18.241	18.221	18.261	VV	4976	99296	2.01%	0.287%
264	18.290	18.261	18.318	VV	5661	143351	2.90%	0.414%
265	18.375	18.318	18.409	VV	7720	266136	5.37%	0.769%
266	18.475	18.409	18.497	VV	6860	229032	4.63%	0.662%
267	18.513	18.497	18.538	VV	5207	104205	2.10%	0.301%
268	18.589	18.538	18.611	VV	3782	150963	3.05%	0.436%
269	18.636	18.611	18.648	VV	4391	81999	1.66%	0.237%
270	18.673	18.648	18.687	VV	4830	100554	2.03%	0.291%
271	18.725	18.687	18.754	VV	13879	397423	8.03%	1.149%
272	18.774	18.754	18.811	VV	8179	234575	4.74%	0.678%
273	18.839	18.811	18.865	VV	6511	180296	3.64%	0.521%
274	18.877	18.865	18.911	VV	5404	129247	2.61%	0.374%
275	18.976	18.911	19.120	VV	5860	537104	10.85%	1.553%
276	19.166	19.120	19.184	VV	7023	195543	3.95%	0.565%
277	19.201	19.184	19.230	VV	6886	163046	3.29%	0.471%
278	19.264	19.230	19.287	VV	7118	205662	4.15%	0.595%
279	19.312	19.287	19.336	VV	9639	217386	4.39%	0.628%
280	19.382	19.336	19.408	VV	9581	319592	6.45%	0.924%
281	19.499	19.408	19.550	VV	12225	701701	14.17%	2.029%
282	19.567	19.550	19.628	VV	7552	298966	6.04%	0.864%
283	19.687	19.628	19.726	VV	11365	451624	9.12%	1.306%
284	19.758	19.726	19.804	VV	7376	310094	6.26%	0.896%
285	19.823	19.804	19.877	VV	6626	263533	5.32%	0.762%
286	19.899	19.877	19.948	VV	7175	257792	5.21%	0.745%
287	19.954	19.948	19.968	VV	6178	71930	1.45%	0.208%
288	19.978	19.968	20.000	VV	5980	112932	2.28%	0.326%
289	20.012	20.000	20.034	VV	6658	121859	2.46%	0.352%
290	20.045	20.034	20.067	VV	6444	121730	2.46%	0.352%
291	20.099	20.067	20.148	VV	6761	298092	6.02%	0.862%
292	20.192	20.148	20.236	VV	9045	408245	8.24%	1.180%
293	20.281	20.236	20.307	VV	10994	379270	7.66%	1.096%
294	20.321	20.307	20.332	VV	7615	106047	2.14%	0.307%
295	20.360	20.332	20.378	VV	7701	199082	4.02%	0.576%
296	20.387	20.378	20.418	VV	6853	158779	3.21%	0.459%
297	20.429	20.418	20.444	VV	6505	101186	2.04%	0.293%
298	20.484	20.444	20.524	VV	6603	295786	5.97%	0.855%
299	20.598	20.524	20.621	VV	5982	332645	6.72%	0.962%

300	20.684	20.621	20.696	VV	6125	254514	5.14%	0.736%
301	20.701	20.696	20.748	VV	5629	162276		
302	20.759	20.748	20.811	VV	5416	181491		
303	20.832	20.811	20.841	VV	4704	82889		
304	20.857	20.841	20.894	VV	4862	142799		
305	20.904	20.894	20.914	VV	4339	51125		
306	20.939	20.914	20.981	VV	4603	164773	3.33%	0.476%
307	21.016	20.981	21.068	VV	6336	263396	5.32%	0.761%
308	21.077	21.068	21.086	VV	4229	43684	0.88%	0.126%
309	21.095	21.086	21.160	VV	4542	146931	2.97%	0.425%
310	21.185	21.160	21.210	VV	3188	82065	1.66%	0.237%
311	21.221	21.210	21.258	VV	3011	70183	1.42%	0.203%
312	21.262	21.258	21.273	VV	2340	18907	0.38%	0.055%
313	21.303	21.273	21.351	VV	3340	109780	2.22%	0.317%
314	21.368	21.351	21.428	VV	2669	97282	1.96%	0.281%
315	21.432	21.428	21.448	VV	2024	20912	0.42%	0.060%
316	21.469	21.448	21.602	VV	2123	92290	1.86%	0.267%
Sum of corrected areas:						34589971		

Instrument :
FID_C
ClientSampleId :
1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Aliphatic EPH 012425.M Thu Feb 06 04:40:57 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	2	SDG No.:	Q1290
Lab Sample ID:	Q1290-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
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
02/05/25 09:25	02/05/25 17:11	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	11.7		1	1.99	4.63	mg/kg	FC068199.D
Total EPH	Total EPH	11.7			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:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	2	SDG No.:	Q1290
Lab Sample ID:	Q1290-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.4
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
FC068199.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	11.7		1.99	4.63	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	35.1		2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.0		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.2		40 - 140	52%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-04	Acq On:	05 Feb 2025 17:11
Client Sample ID:	2	Operator:	YP/AJ
Data file:	FC068199.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	483020	3.488	300	ug/ml
Aliphatic C12-C16	6.378	9.761	922000	6.695	200	ug/ml
Aliphatic C16-C21	9.762	13.114	4443720	32.912	300	ug/ml
Aliphatic C21-C28	13.115	16.766	14327633	112.632	400	ug/ml
Aliphatic C28-C40	16.767	21.570	47214626	455.569	600	ug/ml
Aliphatic EPH	3.110	21.570	67390999	611.295		ug/ml
ortho-Terphenyl (SURR)	11.404	11.404	4097667	26.22		ug/ml
1-chlorooctadecane (SURR)	12.846	12.846	3215357	27.96		ug/ml
Aliphatic C9-C28	3.110	16.766	20176373	155.727	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068199.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 17:11
Operator : YP/AJ
Sample : Q1290-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
2

Integration File: autoint1.e
Quant Time: Feb 06 04:14:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.404	4097667	26.222 ug/ml
Spiked Amount	50.000	Recovery	= 52.44%
12) S 1-chlorooctadecane (S...	12.846	3215357	27.959 ug/ml
Spiked Amount	50.000	Recovery	= 55.92%

Target Compounds

(f)=RT Delta > 1/2 Window

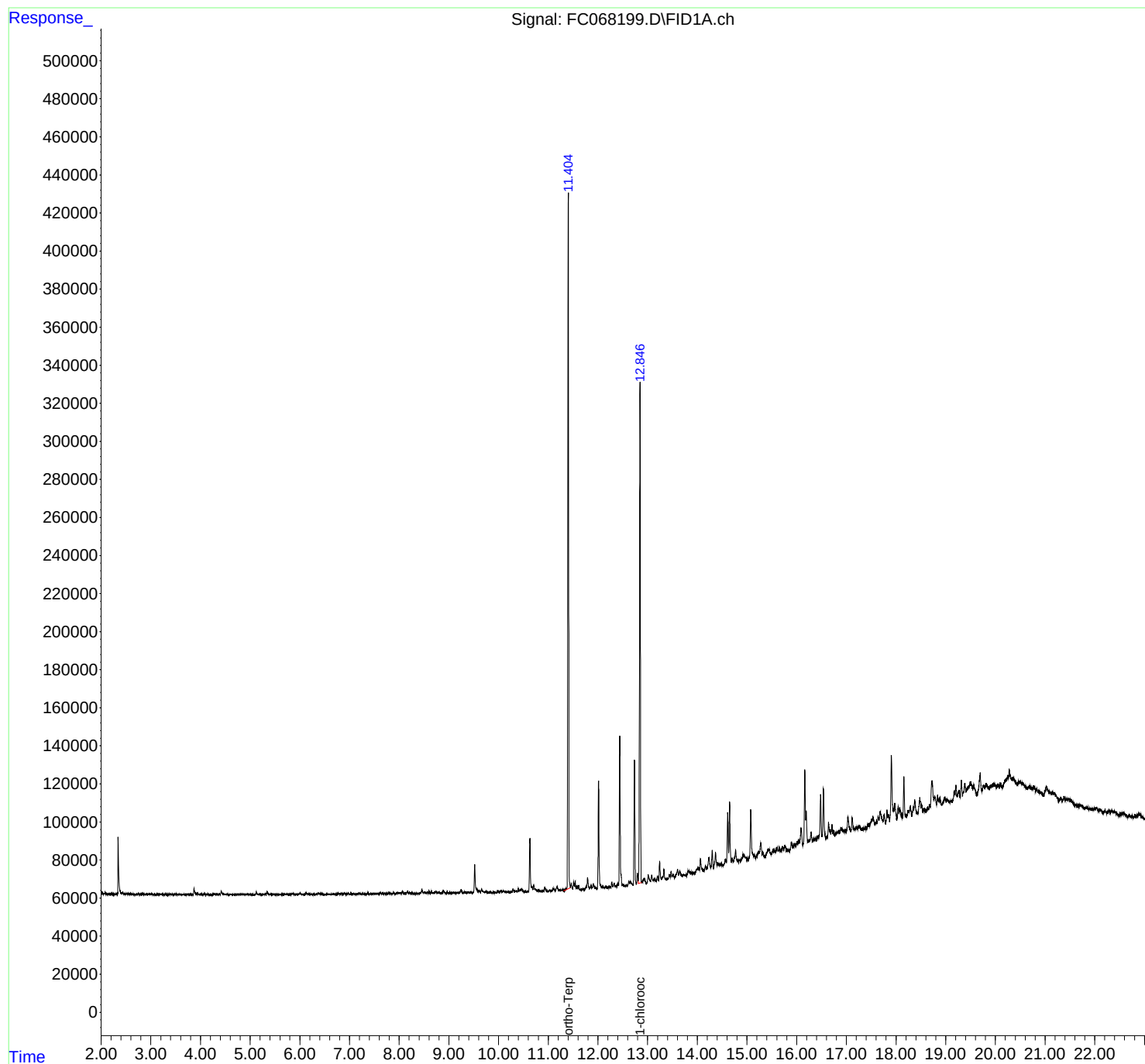
(m)=manual int.

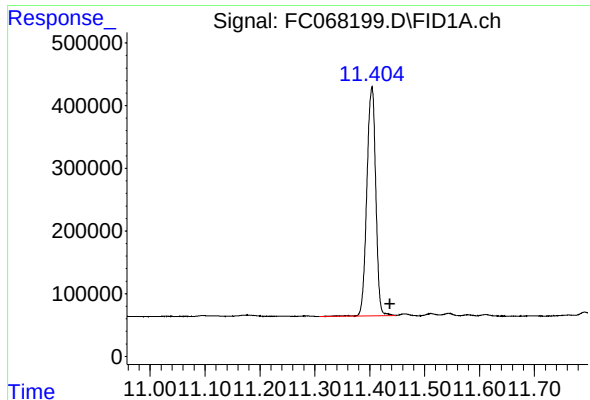
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068199.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 17:11
Operator : YP/AJ
Sample : Q1290-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
2

Integration File: autoint1.e
Quant Time: Feb 06 04:14:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

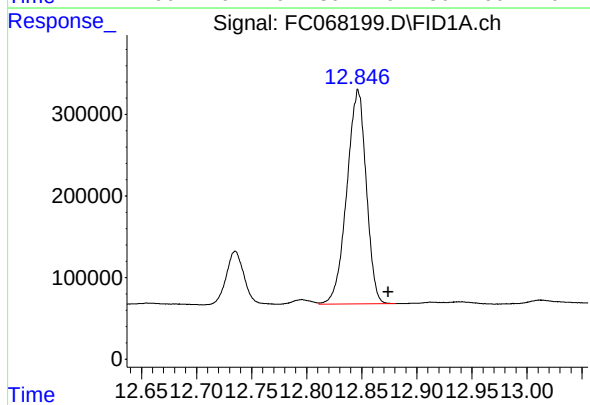




#9 ortho-Terphenyl (SURR)

R.T.: 11.404 min
Delta R.T.: -0.033 min
Response: 4097667
Conc: 26.22 ug/ml

Instrument :
FID_C
ClientSampleId :
2



#12 1-chlorooctadecane (SURR)

R.T.: 12.846 min
Delta R.T.: -0.028 min
Response: 3215357
Conc: 27.96 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068199.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 17:11
 Sample : Q1290-04
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.087	3.038	3.106	BV	116	841	0.02%	0.001%
2	3.128	3.106	3.148	PV	199	2752	0.07%	0.004%
3	3.161	3.148	3.184	VV	165	2379	0.06%	0.003%
4	3.208	3.184	3.236	VV	287	4124	0.10%	0.005%
5	3.241	3.236	3.249	VV	98	464	0.01%	0.001%
6	3.263	3.249	3.277	VV	97	1271	0.03%	0.002%
7	3.291	3.277	3.314	VV	140	2125	0.05%	0.003%
8	3.328	3.314	3.342	VV	122	1425	0.03%	0.002%
9	3.356	3.342	3.376	PV	147	2179	0.05%	0.003%
10	3.400	3.376	3.427	VV	225	4355	0.11%	0.006%
11	3.438	3.427	3.463	VV	150	2390	0.06%	0.003%
12	3.503	3.463	3.559	VV	398	10353	0.25%	0.014%
13	3.585	3.559	3.604	VV	315	4915	0.12%	0.007%
14	3.626	3.604	3.707	VV	210	7843	0.19%	0.010%
15	3.802	3.707	3.834	VV	197	6918	0.17%	0.009%
16	3.870	3.834	3.909	VV	3260	46548	1.12%	0.062%
17	3.921	3.909	4.047	VV	726	29742	0.72%	0.040%
18	4.072	4.047	4.205	VV	468	16197	0.39%	0.022%
19	4.214	4.205	4.251	VV	148	2369	0.06%	0.003%
20	4.270	4.251	4.281	VV	316	3828	0.09%	0.005%
21	4.292	4.281	4.325	VV	348	6715	0.16%	0.009%
22	4.338	4.325	4.354	VV	327	3834	0.09%	0.005%
23	4.371	4.354	4.395	VV	258	5019	0.12%	0.007%
24	4.418	4.395	4.501	VV	1944	37818	0.91%	0.050%
25	4.512	4.501	4.538	VV	218	4218	0.10%	0.006%
26	4.552	4.538	4.562	VV	236	2806	0.07%	0.004%
27	4.577	4.562	4.588	VV	194	2512	0.06%	0.003%
28	4.598	4.588	4.625	VV	207	3716	0.09%	0.005%
29	4.644	4.625	4.658	VV	245	3215	0.08%	0.004%
30	4.673	4.658	4.685	VV	202	2385	0.06%	0.003%
31	4.726	4.685	4.753	VV	193	5428	0.13%	0.007%
32	4.764	4.753	4.807	VV	164	3148	0.08%	0.004%
33	4.841	4.807	4.893	PV	347	10745	0.26%	0.014%
34	4.910	4.893	4.930	VV	278	4494	0.11%	0.006%
35	4.950	4.930	4.962	VV	266	3525	0.09%	0.005%
36	4.982	4.962	4.992	VV	176	2663	0.06%	0.004%

					rteres			
37	5.006	4.992	5.094	VV	264	5543	0.13%	0.007%
38	5.122	5.094	5.171	VV	1321	20630	0.50%	0.027%
39	5.183	5.171	5.234	VV	194	5435	0.13%	0.007%
40	5.242	5.234	5.254	VV	103	1076	0.03%	0.001%
41	5.301	5.254	5.320	VV	452	7145	0.17%	0.009%
42	5.341	5.320	5.399	VV	1822	34906	0.84%	0.046%
43	5.408	5.399	5.451	VV	383	6499	0.16%	0.009%
44	5.470	5.451	5.502	VV	282	5081	0.12%	0.007%
45	5.540	5.502	5.560	PV	255	4890	0.12%	0.006%
46	5.583	5.560	5.618	VV	256	5316	0.13%	0.007%
47	5.628	5.618	5.651	VV	182	2710	0.07%	0.004%
48	5.666	5.651	5.688	VV	301	4139	0.10%	0.006%
49	5.705	5.688	5.727	VV	213	3678	0.09%	0.005%
50	5.748	5.727	5.769	VV	288	5721	0.14%	0.008%
51	5.779	5.769	5.818	VV	225	5535	0.13%	0.007%
52	5.839	5.818	5.921	VV	646	21765	0.53%	0.029%
53	5.928	5.921	5.936	VV	198	1463	0.04%	0.002%
54	5.946	5.936	5.958	VV	197	2117	0.05%	0.003%
55	6.003	5.958	6.038	VV	846	17460	0.42%	0.023%
56	6.056	6.038	6.081	VV	311	5557	0.13%	0.007%
57	6.127	6.081	6.153	VV	1023	19200	0.46%	0.026%
58	6.170	6.153	6.188	VV	399	7009	0.17%	0.009%
59	6.202	6.188	6.219	VV	316	4568	0.11%	0.006%
60	6.228	6.219	6.255	VV	249	3075	0.07%	0.004%
61	6.278	6.255	6.326	VV	498	9485	0.23%	0.013%
62	6.367	6.326	6.411	VV	723	18599	0.45%	0.025%
63	6.425	6.411	6.450	VV	455	7972	0.19%	0.011%
64	6.466	6.450	6.486	VV	310	4961	0.12%	0.007%
65	6.508	6.486	6.531	VV	199	3783	0.09%	0.005%
66	6.549	6.531	6.578	VV	352	4856	0.12%	0.006%
67	6.600	6.578	6.640	VV	171	3791	0.09%	0.005%
68	6.668	6.640	6.687	PV	355	4627	0.11%	0.006%
69	6.701	6.687	6.711	VV	185	1360	0.03%	0.002%
70	6.765	6.711	6.817	VV	508	20341	0.49%	0.027%
71	6.833	6.817	6.860	VV	431	7185	0.17%	0.010%
72	6.894	6.860	6.924	VV	591	10945	0.26%	0.015%
73	6.937	6.924	6.952	VV	233	2958	0.07%	0.004%
74	6.976	6.952	7.002	VV	724	9809	0.24%	0.013%
75	7.027	7.002	7.054	VV	445	6535	0.16%	0.009%
76	7.074	7.054	7.121	PV	353	7816	0.19%	0.010%
77	7.136	7.121	7.155	VV	296	4065	0.10%	0.005%
78	7.175	7.155	7.183	VV	379	4672	0.11%	0.006%
79	7.198	7.183	7.235	VV	801	10952	0.26%	0.015%
80	7.266	7.235	7.294	VV	225	5254	0.13%	0.007%
81	7.322	7.294	7.340	VV	168	3174	0.08%	0.004%
82	7.366	7.340	7.398	VV	490	8480	0.20%	0.011%
83	7.418	7.398	7.448	VV	177	3178	0.08%	0.004%
84	7.479	7.448	7.494	VV	331	5431	0.13%	0.007%
85	7.509	7.494	7.526	VV	220	3144	0.08%	0.004%
86	7.536	7.526	7.544	VV	174	1680	0.04%	0.002%
87	7.564	7.544	7.588	VV	291	3710	0.09%	0.005%
88	7.621	7.588	7.688	VV	647	20660	0.50%	0.027%
89	7.701	7.688	7.708	VV	257	2534	0.06%	0.003%

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90	7.718	7.708	7.744	VV	263	3630	0.09%	0.005%
91	7.763	7.744	7.774	VV	357	3972	0.10%	0.005%
92	7.793	7.774	7.806	VV	442	6384	0.15%	0.008%
93	7.817	7.806	7.851	VV	454	5837	0.14%	0.008%
94	7.886	7.851	7.914	VV	905	13930	0.34%	0.019%
95	7.935	7.914	7.946	VV	252	3880	0.09%	0.005%
96	7.979	7.946	7.996	VV	683	14304	0.35%	0.019%
97	8.009	7.996	8.024	VV	455	6744	0.16%	0.009%
98	8.065	8.024	8.116	VV	1668	30088	0.73%	0.040%
99	8.163	8.116	8.198	VV	1429	26711	0.64%	0.035%
100	8.214	8.198	8.234	VV	665	9410	0.23%	0.013%
101	8.248	8.234	8.333	VV	475	13918	0.34%	0.018%
102	8.347	8.333	8.368	PV	158	2060	0.05%	0.003%
103	8.419	8.368	8.431	VV	553	8075	0.19%	0.011%
104	8.457	8.431	8.494	VV	2446	37353	0.90%	0.050%
105	8.509	8.494	8.523	VV	729	9195	0.22%	0.012%
106	8.534	8.523	8.561	VV	522	10437	0.25%	0.014%
107	8.600	8.561	8.625	VV	1191	23151	0.56%	0.031%
108	8.648	8.625	8.684	VV	1080	17109	0.41%	0.023%
109	8.700	8.684	8.716	VV	491	6271	0.15%	0.008%
110	8.737	8.716	8.781	VV	871	20726	0.50%	0.028%
111	8.801	8.781	8.851	VV	772	14825	0.36%	0.020%
112	8.885	8.851	8.949	VV	1480	32143	0.78%	0.043%
113	8.969	8.949	8.995	VV	709	8862	0.21%	0.012%
114	9.022	8.995	9.041	VV	310	4886	0.12%	0.006%
115	9.075	9.041	9.097	VV	418	8047	0.19%	0.011%
116	9.107	9.097	9.131	VV	276	2905	0.07%	0.004%
117	9.160	9.131	9.174	VV	391	5221	0.13%	0.007%
118	9.180	9.174	9.200	VV	146	1781	0.04%	0.002%
119	9.242	9.200	9.290	VV	1638	36720	0.89%	0.049%
120	9.319	9.290	9.366	VV	566	14542	0.35%	0.019%
121	9.391	9.366	9.434	VV	595	13239	0.32%	0.018%
122	9.443	9.434	9.471	VV	375	4740	0.11%	0.006%
123	9.521	9.471	9.638	VV	14889	262573	6.34%	0.349%
124	9.661	9.638	9.705	VV	2159	43561	1.05%	0.058%
125	9.733	9.705	9.743	VV	521	10513	0.25%	0.014%
126	9.757	9.743	9.793	VV	651	10384	0.25%	0.014%
127	9.829	9.793	9.870	VV	414	9621	0.23%	0.013%
128	9.901	9.870	9.911	PV	181	3196	0.08%	0.004%
129	9.939	9.911	9.948	VV	150	2175	0.05%	0.003%
130	9.987	9.948	10.020	VV	1251	21740	0.52%	0.029%
131	10.046	10.020	10.067	VV	1119	18418	0.44%	0.024%
132	10.092	10.067	10.214	VV	722	30784	0.74%	0.041%
133	10.234	10.214	10.265	VV	465	7017	0.17%	0.009%
134	10.291	10.265	10.334	VV	1745	32736	0.79%	0.044%
135	10.351	10.334	10.372	VV	674	11062	0.27%	0.015%
136	10.397	10.372	10.415	VV	1773	25772	0.62%	0.034%
137	10.436	10.415	10.450	VV	1405	22897	0.55%	0.030%
138	10.467	10.450	10.524	VV	1862	36322	0.88%	0.048%
139	10.533	10.524	10.554	VV	367	4106	0.10%	0.005%
140	10.579	10.554	10.587	PV	292	3317	0.08%	0.004%
141	10.631	10.587	10.663	VV	28115	358643	8.65%	0.477%

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142	10.673	10.663	10.690	VV	2821	36599	0.88%	0.049%
143	10.709	10.690	10.731	VV	3665	56618	1.37%	0.075%
144	10.741	10.731	10.778	VV	1486	29166	0.70%	0.039%
145	10.780	10.778	10.801	VV	749	8370	0.20%	0.011%
146	10.814	10.801	10.866	VV	517	13572	0.33%	0.018%
147	10.890	10.866	10.907	VV	531	8618	0.21%	0.011%
148	10.929	10.907	10.998	VV	2342	41635	1.00%	0.055%
149	11.029	10.998	11.048	VV	542	9616	0.23%	0.013%
150	11.065	11.048	11.077	VV	506	6541	0.16%	0.009%
151	11.096	11.077	11.138	VV	1742	36166	0.87%	0.048%
152	11.175	11.138	11.217	VV	2410	58043	1.40%	0.077%
153	11.243	11.217	11.261	VV	658	11600	0.28%	0.015%
154	11.285	11.261	11.308	VV	968	14017	0.34%	0.019%
155	11.358	11.308	11.370	PV	1365	26352	0.64%	0.035%
156	11.404	11.370	11.448	VV	367618	4144608	100.00%	5.508%
157	11.464	11.448	11.489	VV	4000	58923	1.42%	0.078%
158	11.512	11.489	11.528	VV	4545	61861	1.49%	0.082%
159	11.544	11.528	11.563	VV	4681	61768	1.49%	0.082%
160	11.578	11.563	11.595	VV	2389	29707	0.72%	0.039%
161	11.611	11.595	11.664	VV	2455	33415	0.81%	0.044%
162	11.697	11.664	11.718	VV	503	6282	0.15%	0.008%
163	11.792	11.718	11.838	VV	6300	121366	2.93%	0.161%
164	11.862	11.838	11.882	VV	1870	32421	0.78%	0.043%
165	11.906	11.882	11.945	VV	2676	55135	1.33%	0.073%
166	11.960	11.945	11.984	VV	624	9784	0.24%	0.013%
167	12.014	11.984	12.068	VV	56411	684113	16.51%	0.909%
168	12.078	12.068	12.088	VV	1009	11073	0.27%	0.015%
169	12.102	12.088	12.121	VV	954	15375	0.37%	0.020%
170	12.146	12.121	12.158	VV	685	11809	0.28%	0.016%
171	12.173	12.158	12.199	VV	872	13552	0.33%	0.018%
172	12.221	12.199	12.255	PV	1020	16488	0.40%	0.022%
173	12.279	12.255	12.301	PV	2968	38088	0.92%	0.051%
174	12.327	12.301	12.349	VV	2279	37386	0.90%	0.050%
175	12.364	12.349	12.377	VV	845	10886	0.26%	0.014%
176	12.401	12.377	12.414	VV	2028	28576	0.69%	0.038%
177	12.440	12.414	12.494	VV	79703	970475	23.42%	1.290%
178	12.509	12.494	12.531	VV	900	13178	0.32%	0.018%
179	12.543	12.531	12.557	PV	273	2617	0.06%	0.003%
180	12.576	12.557	12.589	VV	473	4097	0.10%	0.005%
181	12.624	12.589	12.639	PV	2380	35712	0.86%	0.047%
182	12.656	12.639	12.705	VV	2098	46576	1.12%	0.062%
183	12.735	12.705	12.774	VV	65539	740495	17.87%	0.984%
184	12.796	12.774	12.811	VV	5997	74890	1.81%	0.100%
185	12.846	12.811	12.881	VV	264773	3247864	78.36%	4.316%
186	12.914	12.881	12.928	VV	2509	46825	1.13%	0.062%
187	12.939	12.928	12.972	VV	2986	43194	1.04%	0.057%
188	13.013	12.972	13.058	PV	4678	102361	2.47%	0.136%
189	13.082	13.058	13.121	VV	4024	80573	1.94%	0.107%
190	13.138	13.121	13.163	VV	1928	33324	0.80%	0.044%
191	13.200	13.163	13.220	VV	3134	52383	1.26%	0.070%
192	13.242	13.220	13.279	VV	10737	153338	3.70%	0.204%
193	13.328	13.279	13.377	VV	5989	133583	3.22%	0.178%
194	13.395	13.377	13.411	VV	1037	15213	0.37%	0.020%

					rteres			
195	13.437	13.411	13.454	VV	2798	47176	1.14%	0.063%
196	13.473	13.454	13.494	VV	4164	63279	1.53%	0.084%
197	13.512	13.494	13.541	VV	2642	51987	1.25%	0.069%
198	13.600	13.541	13.623	VV	4903	124586	3.01%	0.166%
199	13.646	13.623	13.710	VV	3705	108924	2.63%	0.145%
200	13.723	13.710	13.771	VV	1488	43192	1.04%	0.057%
201	13.822	13.771	13.874	VV	3202	125010	3.02%	0.166%
202	13.891	13.874	13.910	VV	2097	35289	0.85%	0.047%
203	13.923	13.910	13.943	VV	1558	27106	0.65%	0.036%
204	14.019	13.943	14.042	VV	3703	161192	3.89%	0.214%
205	14.063	14.042	14.118	VV	8385	190833	4.60%	0.254%
206	14.162	14.118	14.185	VV	4103	115789	2.79%	0.154%
207	14.233	14.185	14.274	VV	8168	256682	6.19%	0.341%
208	14.299	14.274	14.325	VV	11650	193522	4.67%	0.257%
209	14.366	14.325	14.395	VV	10724	251286	6.06%	0.334%
210	14.416	14.395	14.431	VV	4545	90163	2.18%	0.120%
211	14.440	14.431	14.462	VV	4082	67848	1.64%	0.090%
212	14.481	14.462	14.504	VV	4562	92432	2.23%	0.123%
213	14.563	14.504	14.581	VV	5903	184475	4.45%	0.245%
214	14.610	14.581	14.630	VV	30543	459311	11.08%	0.610%
215	14.650	14.630	14.683	VV	35343	534321	12.89%	0.710%
216	14.702	14.683	14.726	VV	5823	125989	3.04%	0.167%
217	14.770	14.726	14.828	VV	10166	350296	8.45%	0.465%
218	14.839	14.828	14.844	VV	4296	40538	0.98%	0.054%
219	14.855	14.844	14.874	VV	4157	68570	1.65%	0.091%
220	14.921	14.874	14.934	VV	7118	194317	4.69%	0.258%
221	14.945	14.934	14.994	VV	6654	196869	4.75%	0.262%
222	15.000	14.994	15.019	VV	4569	60370	1.46%	0.080%
223	15.074	15.019	15.134	VV	29742	705983	17.03%	0.938%
224	15.144	15.134	15.169	VV	5510	98745	2.38%	0.131%
225	15.277	15.169	15.304	VV	11182	549954	13.27%	0.731%
226	15.319	15.304	15.342	VV	6289	121999	2.94%	0.162%
227	15.350	15.342	15.374	VV	4387	77334	1.87%	0.103%
228	15.424	15.374	15.498	VV	7353	438378	10.58%	0.583%
229	15.524	15.498	15.570	VV	7084	262533	6.33%	0.349%
230	15.604	15.570	15.627	VV	7643	224186	5.41%	0.298%
231	15.645	15.627	15.668	VV	7612	158087	3.81%	0.210%
232	15.677	15.668	15.688	VV	5946	70096	1.69%	0.093%
233	15.715	15.688	15.741	VV	7726	210820	5.09%	0.280%
234	15.767	15.741	15.814	VV	7783	279870	6.75%	0.372%
235	15.819	15.814	15.826	VV	5557	35432	0.85%	0.047%
236	15.896	15.826	15.917	VV	9195	347416	8.38%	0.462%
237	15.953	15.917	15.985	VV	8430	288030	6.95%	0.383%
238	16.037	15.985	16.051	VV	9819	333689	8.05%	0.443%
239	16.089	16.051	16.122	VV	15446	468423	11.30%	0.622%
240	16.163	16.122	16.182	VV	46222	786215	18.97%	1.045%
241	16.191	16.182	16.225	VV	24279	395573	9.54%	0.526%
242	16.235	16.225	16.241	VV	8212	76195	1.84%	0.101%
243	16.291	16.241	16.318	VV	12662	434703	10.49%	0.578%
244	16.342	16.318	16.352	VV	9050	173386	4.18%	0.230%
245	16.371	16.352	16.394	VV	9206	218071	5.26%	0.290%
246	16.417	16.394	16.432	VV	9816	210435	5.08%	0.280%

					rteres			
247	16.481	16.432	16.511	VV	31635	746663	18.02%	0.992%
248	16.538	16.511	16.601	VV	34649	838370	20.23%	1.114%
249	16.608	16.601	16.614	VV	9035	70346	1.70%	0.093%
250	16.641	16.614	16.686	VV	15776	521320	12.58%	0.693%
251	16.708	16.686	16.731	VV	14788	325848	7.86%	0.433%
252	16.741	16.731	16.764	VV	11586	210340	5.08%	0.280%
253	16.895	16.764	16.948	VV	12588	1163877	28.08%	1.547%
254	16.973	16.948	16.987	VV	11580	244047	5.89%	0.324%
255	17.033	16.987	17.091	VV	17328	778352	18.78%	1.034%
256	17.116	17.091	17.180	VV	16658	649529	15.67%	0.863%
257	17.197	17.180	17.228	VV	11472	314668	7.59%	0.418%
258	17.235	17.228	17.244	VV	11631	106737	2.58%	0.142%
259	17.265	17.244	17.314	VV	12316	453410	10.94%	0.603%
260	17.327	17.314	17.338	VV	9934	140957	3.40%	0.187%
261	17.385	17.338	17.403	VV	10588	383995	9.26%	0.510%
262	17.439	17.403	17.454	VV	12155	346084	8.35%	0.460%
263	17.533	17.454	17.571	VV	15618	912558	22.02%	1.213%
264	17.607	17.571	17.618	VV	13015	339195	8.18%	0.451%
265	17.639	17.618	17.656	VV	15055	317172	7.65%	0.421%
266	17.681	17.656	17.741	VV	17356	744325	17.96%	0.989%
267	17.763	17.741	17.791	VV	16009	396513	9.57%	0.527%
268	17.816	17.791	17.835	VV	17780	383434	9.25%	0.510%
269	17.847	17.835	17.869	VV	15139	292380	7.05%	0.389%
270	17.906	17.869	17.958	VV	46157	1271357	30.67%	1.689%
271	17.974	17.958	18.011	VV	20274	543209	13.11%	0.722%
272	18.041	18.011	18.058	VV	18735	436623	10.53%	0.580%
273	18.075	18.058	18.134	VV	17938	682969	16.48%	0.908%
274	18.157	18.134	18.184	VV	34042	641341	15.47%	0.852%
275	18.194	18.184	18.212	VV	13944	218417	5.27%	0.290%
276	18.242	18.212	18.265	VV	15777	466416	11.25%	0.620%
277	18.291	18.265	18.317	VV	17890	483266	11.66%	0.642%
278	18.374	18.317	18.414	VV	20645	953243	23.00%	1.267%
279	18.426	18.414	18.440	VV	13909	209871	5.06%	0.279%
280	18.478	18.440	18.501	VV	21184	638926	15.42%	0.849%
281	18.512	18.501	18.542	VV	17868	394900	9.53%	0.525%
282	18.558	18.542	18.571	VV	15466	260001	6.27%	0.346%
283	18.574	18.571	18.604	VV	15509	289751	6.99%	0.385%
284	18.640	18.604	18.657	VV	16027	461705	11.14%	0.614%
285	18.727	18.657	18.761	VV	29031	1318339	31.81%	1.752%
286	18.778	18.761	18.818	VV	20898	645248	15.57%	0.857%
287	18.835	18.818	18.862	VV	20598	501981	12.11%	0.667%
288	18.880	18.862	18.920	VV	19364	617970	14.91%	0.821%
289	18.982	18.920	19.034	VV	19127	1214244	29.30%	1.614%
290	19.040	19.034	19.072	VV	17992	386862	9.33%	0.514%
291	19.080	19.072	19.090	VV	16743	184567	4.45%	0.245%
292	19.114	19.090	19.126	VV	17188	361965	8.73%	0.481%
293	19.175	19.126	19.187	VV	22298	691106	16.67%	0.918%
294	19.206	19.187	19.228	VV	24204	534619	12.90%	0.710%
295	19.269	19.228	19.294	VV	21763	797833	19.25%	1.060%
296	19.315	19.294	19.338	VV	26919	596227	14.39%	0.792%
297	19.386	19.338	19.414	VV	25192	994207	23.99%	1.321%
298	19.489	19.414	19.544	VV	25287	1790191	43.19%	2.379%
299	19.565	19.544	19.639	VV	23918	1166536	28.15%	1.550%

					rteres			
300	19.693	19.639	19.734	VV	29365	1297801	31.31%	1.725%
301	19.762	19.734	19.794	VV	22516	773359	18.66%	1.028%
302	19.815	19.794	19.888	VV	23181	1200426	28.96%	1.595%
303	19.964	19.888	19.981	VV	22692	1214370	29.30%	1.614%
304	19.990	19.981	20.074	VV	22009	1170254	28.24%	1.555%
305	20.095	20.074	20.111	VV	22134	458587	11.06%	0.609%
306	20.117	20.111	20.136	VV	20972	309815	7.48%	0.412%
307	20.147	20.136	20.155	VV	20869	226875	5.47%	0.301%
308	20.247	20.155	20.261	VV	25501	1463166	35.30%	1.944%
309	20.277	20.261	20.331	VV	28112	1056550	25.49%	1.404%
310	20.342	20.331	20.358	VV	23985	380827	9.19%	0.506%
311	20.366	20.358	20.441	VV	23358	1079379	26.04%	1.434%
312	20.504	20.441	20.524	VV	21523	1030302	24.86%	1.369%
313	20.558	20.524	20.651	VV	20469	1412617	34.08%	1.877%
314	20.684	20.651	20.721	VV	18053	726211	17.52%	0.965%
315	20.729	20.721	20.757	VV	17151	357513	8.63%	0.475%
316	20.767	20.757	20.806	VV	17792	484869	11.70%	0.644%
317	20.834	20.806	20.864	VV	15841	525745	12.69%	0.699%
318	20.877	20.864	20.899	VV	14915	296106	7.14%	0.393%
319	20.908	20.899	20.973	VV	14123	574413	13.86%	0.763%
320	21.028	20.973	21.081	VV	16299	920335	22.21%	1.223%
321	21.094	21.081	21.128	VV	13281	351234	8.47%	0.467%
322	21.145	21.128	21.239	VV	12788	775358	18.71%	1.030%
323	21.316	21.282	21.344	VV	8918	309519	7.47%	0.411%
324	21.383	21.344	21.433	VV	9710	434872	10.49%	0.578%
325	21.446	21.433	21.461	VV	8323	127392	3.07%	0.169%
326	21.475	21.461	21.604	VV	8231	535608	12.92%	0.712%
327	21.622	21.604	21.658	VV	4297	118439	2.86%	0.157%
328	21.666	21.658	21.844	VV	3912	294347	7.10%	0.391%
329	21.858	21.844	21.882	VV	2072	31429	0.76%	0.042%
330	21.902	21.882	21.951	VV	1104	24549	0.59%	0.033%

Sum of corrected areas: 75253072

Aliphatic EPH 012425.M Thu Feb 06 04:42:36 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	3	SDG No.:	Q1290
Lab Sample ID:	Q1290-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
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
02/05/25 09:25	02/05/25 17:47	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	8.43		1	1.97	4.59	mg/kg	FC068200.D
Total EPH	Total EPH	8.43			1.97	4.59	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:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	3	SDG No.:	Q1290
Lab Sample ID:	Q1290-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
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
FC068200.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	8.43		1.97	4.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	32.9		2.07	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	24.3		40 - 140	49%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.6		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-05	Acq On:	05 Feb 2025 17:47
Client Sample ID:	3	Operator:	YP/AJ
Data file:	FC068200.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	473093	3.416	300	ug/ml
Aliphatic C12-C16	6.378	9.761	1015927	7.377	200	ug/ml
Aliphatic C16-C21	9.762	13.114	4800561	35.555	300	ug/ml
Aliphatic C21-C28	13.115	16.766	8570474	67.374	400	ug/ml
Aliphatic C28-C40	16.767	21.570	44630515	430.635	600	ug/ml
Aliphatic EPH	3.110	21.570	59490570	544.357		ug/ml
ortho-Terphenyl (SURR)	11.405	11.405	3531484	22.6		ug/ml
1-chlorooctadecane (SURR)	12.846	12.846	2797387	24.32		ug/ml
Aliphatic C9-C28	3.110	16.766	14860055	113.722	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068200.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 17:47
 Operator : YP/AJ
 Sample : Q1290-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 3

Integration File: autoint1.e
 Quant Time: Feb 06 04:14:34 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.405	3531484	22.599 ug/ml
Spiked Amount 50.000		Recovery =	45.20%
12) S 1-chlorooctadecane (S...	12.846	2797387	24.324 ug/ml
Spiked Amount 50.000		Recovery =	48.65%

Target Compounds

(f)=RT Delta > 1/2 Window

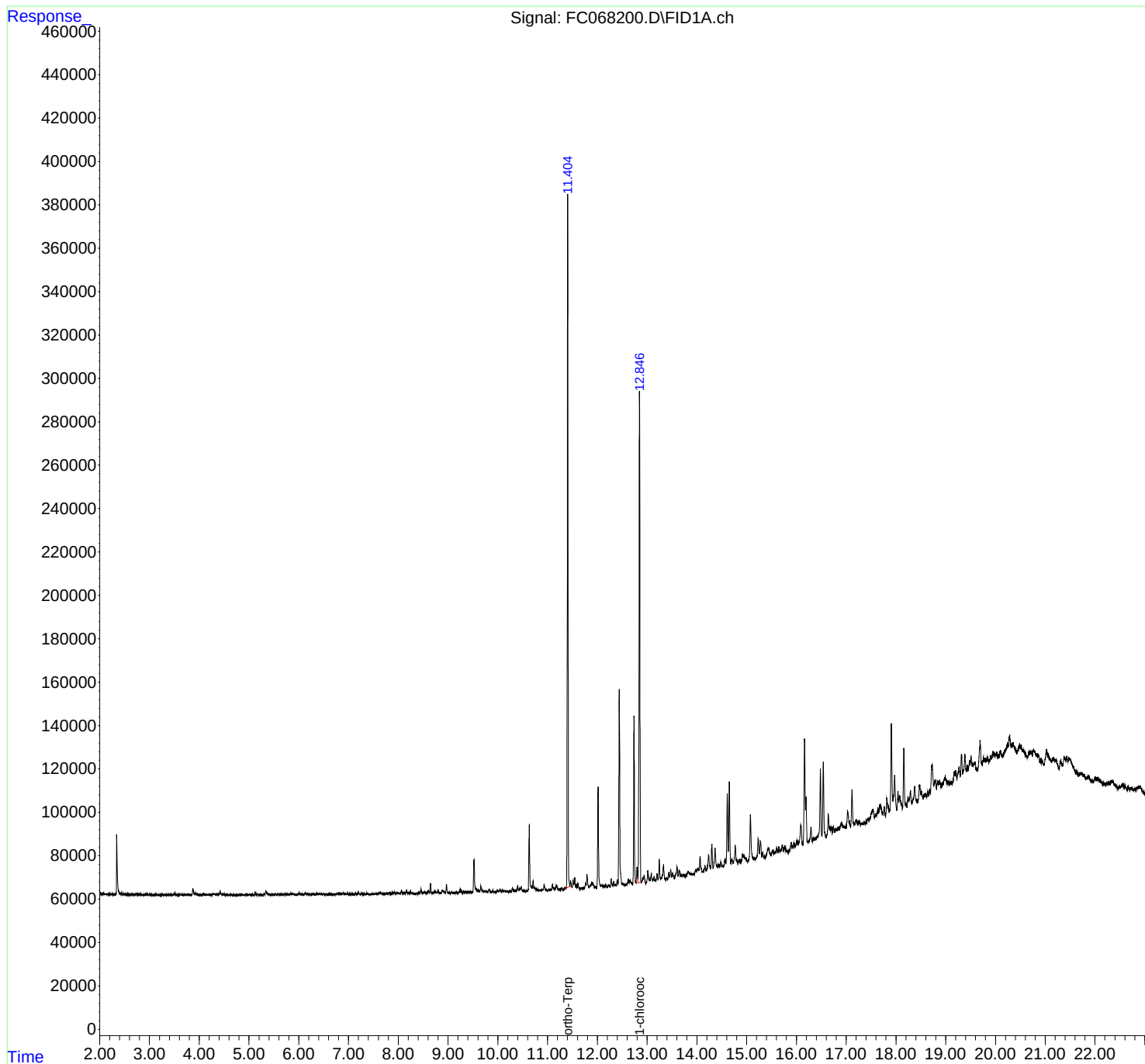
(m)=manual int.

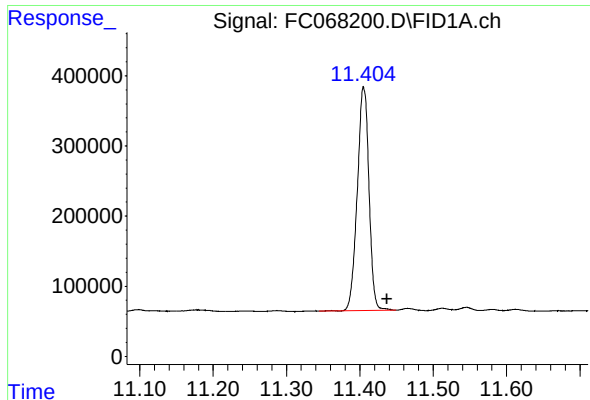
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068200.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 17:47
Operator : YP/AJ
Sample : Q1290-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
3

Integration File: autoint1.e
Quant Time: Feb 06 04:14:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

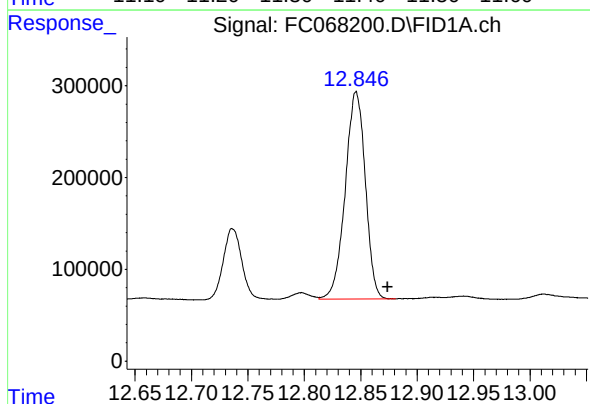




#9 ortho-Terphenyl (SURR)

R.T.: 11.405 min
Delta R.T.: -0.032 min
Response: 3531484
Conc: 22.60 ug/ml

Instrument :
FID_C
ClientSampleId :
3



#12 1-chlorooctadecane (SURR)

R.T.: 12.846 min
Delta R.T.: -0.028 min
Response: 2797387
Conc: 24.32 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068200.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 17:47
Sample : Q1290-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.090	3.038	3.111	BV	32	-56	-0.00%	-0.000%
2	3.122	3.111	3.144	PV	170	2370	0.07%	0.004%
3	3.155	3.144	3.197	VV	164	2974	0.08%	0.004%
4	3.210	3.197	3.285	VV	203	4398	0.12%	0.007%
5	3.326	3.285	3.344	PV	119	2003	0.06%	0.003%
6	3.359	3.344	3.378	VV	106	1385	0.04%	0.002%
7	3.405	3.378	3.420	VV	168	2242	0.06%	0.003%
8	3.438	3.420	3.476	VV	214	3217	0.09%	0.005%
9	3.502	3.476	3.554	VV	691	10878	0.30%	0.016%
10	3.579	3.554	3.598	VV	321	4099	0.11%	0.006%
11	3.618	3.598	3.677	VV	276	8650	0.24%	0.013%
12	3.695	3.677	3.737	VV	130	3681	0.10%	0.006%
13	3.744	3.737	3.791	VV	154	3433	0.10%	0.005%
14	3.799	3.791	3.841	VV	232	3043	0.08%	0.005%
15	3.872	3.841	3.907	PV	3061	44586	1.24%	0.067%
16	3.919	3.907	3.941	VV	785	12507	0.35%	0.019%
17	3.952	3.941	4.004	VV	472	12155	0.34%	0.018%
18	4.010	4.004	4.048	VV	264	5075	0.14%	0.008%
19	4.069	4.048	4.199	VV	495	18524	0.52%	0.028%
20	4.227	4.199	4.238	VV	201	3019	0.08%	0.005%
21	4.272	4.238	4.280	VV	355	4705	0.13%	0.007%
22	4.300	4.280	4.357	VV	418	14664	0.41%	0.022%
23	4.372	4.357	4.396	VV	309	5813	0.16%	0.009%
24	4.417	4.396	4.511	VV	1537	33251	0.93%	0.050%
25	4.521	4.511	4.534	VV	234	2572	0.07%	0.004%
26	4.550	4.534	4.586	VV	224	4481	0.12%	0.007%
27	4.632	4.586	4.658	VV	206	5885	0.16%	0.009%
28	4.666	4.658	4.675	VV	149	1259	0.04%	0.002%
29	4.694	4.675	4.752	VV	190	5868	0.16%	0.009%
30	4.764	4.752	4.786	VV	148	2069	0.06%	0.003%
31	4.799	4.786	4.811	VV	117	1059	0.03%	0.002%
32	4.849	4.811	4.889	PV	346	8003	0.22%	0.012%
33	4.905	4.889	4.935	VV	240	4797	0.13%	0.007%
34	4.945	4.935	4.987	VV	200	4317	0.12%	0.006%
35	5.005	4.987	5.054	VV	244	4848	0.14%	0.007%
36	5.063	5.054	5.078	VV	164	1360	0.04%	0.002%

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37	5.122	5.078	5.178	VV	1365	23465	0.65%	0.035%
38	5.183	5.178	5.216	VV	218	3413	0.10%	0.005%
39	5.244	5.216	5.277	VV	206	3948	0.11%	0.006%
40	5.301	5.277	5.316	PV	341	5135	0.14%	0.008%
41	5.340	5.316	5.397	VV	1876	36925	1.03%	0.055%
42	5.409	5.397	5.464	VV	337	8178	0.23%	0.012%
43	5.475	5.464	5.505	VV	287	4464	0.12%	0.007%
44	5.538	5.505	5.558	VV	273	5548	0.15%	0.008%
45	5.569	5.558	5.598	VV	197	3736	0.10%	0.006%
46	5.617	5.598	5.641	VV	183	3865	0.11%	0.006%
47	5.667	5.641	5.688	VV	314	5271	0.15%	0.008%
48	5.748	5.688	5.770	VV	387	12695	0.35%	0.019%
49	5.782	5.770	5.809	VV	231	3757	0.10%	0.006%
50	5.838	5.809	5.921	VV	653	24947	0.70%	0.037%
51	5.930	5.921	5.966	VV	252	5083	0.14%	0.008%
52	6.003	5.966	6.032	VV	813	15504	0.43%	0.023%
53	6.043	6.032	6.086	VV	246	5634	0.16%	0.008%
54	6.125	6.086	6.158	VV	928	16052	0.45%	0.024%
55	6.171	6.158	6.188	VV	344	5044	0.14%	0.008%
56	6.206	6.188	6.250	VV	249	5747	0.16%	0.009%
57	6.279	6.250	6.334	VV	345	5987	0.17%	0.009%
58	6.363	6.334	6.410	VV	616	15505	0.43%	0.023%
59	6.421	6.410	6.449	VV	374	6667	0.19%	0.010%
60	6.461	6.449	6.491	VV	242	3748	0.10%	0.006%
61	6.499	6.491	6.521	VV	129	1526	0.04%	0.002%
62	6.547	6.521	6.577	VV	225	3922	0.11%	0.006%
63	6.589	6.577	6.651	VV	125	2718	0.08%	0.004%
64	6.668	6.651	6.694	VV	236	3128	0.09%	0.005%
65	6.776	6.694	6.814	VV	443	16121	0.45%	0.024%
66	6.826	6.814	6.858	VV	315	5313	0.15%	0.008%
67	6.894	6.858	6.921	VV	507	9009	0.25%	0.013%
68	6.940	6.921	6.954	VV	229	2659	0.07%	0.004%
69	6.975	6.954	7.004	VV	838	8380	0.23%	0.013%
70	7.027	7.004	7.052	VV	348	5255	0.15%	0.008%
71	7.072	7.052	7.121	VV	344	6810	0.19%	0.010%
72	7.134	7.121	7.159	VV	265	4462	0.12%	0.007%
73	7.171	7.159	7.181	VV	267	3057	0.09%	0.005%
74	7.198	7.181	7.228	VV	784	11285	0.31%	0.017%
75	7.261	7.228	7.296	VV	266	5911	0.16%	0.009%
76	7.323	7.296	7.342	PV	159	2994	0.08%	0.004%
77	7.367	7.342	7.401	VV	475	6757	0.19%	0.010%
78	7.417	7.401	7.438	VV	172	1497	0.04%	0.002%
79	7.476	7.438	7.497	PV	288	4431	0.12%	0.007%
80	7.508	7.497	7.531	VV	128	1502	0.04%	0.002%
81	7.534	7.531	7.544	VV	154	749	0.02%	0.001%
82	7.562	7.544	7.579	VV	177	2501	0.07%	0.004%
83	7.596	7.579	7.603	VV	364	3309	0.09%	0.005%
84	7.620	7.603	7.635	VV	627	8639	0.24%	0.013%
85	7.641	7.635	7.691	VV	533	9136	0.25%	0.014%
86	7.716	7.691	7.735	VV	242	3673	0.10%	0.005%
87	7.759	7.735	7.776	VV	380	5431	0.15%	0.008%
88	7.792	7.776	7.805	VV	361	5046	0.14%	0.008%
89	7.820	7.805	7.854	VV	445	6467	0.18%	0.010%

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90	7.887	7.854	7.904	VV	674	9792	0.27%	0.015%
91	7.923	7.904	7.944	VV	714	10712	0.30%	0.016%
92	7.969	7.944	7.998	VV	592	14631	0.41%	0.022%
93	8.011	7.998	8.024	VV	388	5022	0.14%	0.008%
94	8.066	8.024	8.094	VV	1649	25535	0.71%	0.038%
95	8.114	8.094	8.124	VV	255	3816	0.11%	0.006%
96	8.165	8.124	8.197	VV	1800	29290	0.82%	0.044%
97	8.212	8.197	8.229	VV	462	6279	0.17%	0.009%
98	8.247	8.229	8.284	VV	1072	13721	0.38%	0.021%
99	8.311	8.284	8.333	VV	163	3155	0.09%	0.005%
100	8.421	8.333	8.434	PV	470	9294	0.26%	0.014%
101	8.458	8.434	8.491	VV	2166	31421	0.88%	0.047%
102	8.510	8.491	8.523	VV	560	9145	0.25%	0.014%
103	8.535	8.523	8.584	VV	514	15040	0.42%	0.022%
104	8.605	8.584	8.627	VV	1489	23409	0.65%	0.035%
105	8.649	8.627	8.677	VV	4522	53159	1.48%	0.079%
106	8.699	8.677	8.714	VV	466	7443	0.21%	0.011%
107	8.737	8.714	8.784	VV	964	24878	0.69%	0.037%
108	8.801	8.784	8.855	VV	1707	25870	0.72%	0.039%
109	8.886	8.855	8.947	VV	1567	39375	1.10%	0.059%
110	8.971	8.947	9.004	VV	4229	48262	1.35%	0.072%
111	9.023	9.004	9.038	VV	269	4029	0.11%	0.006%
112	9.078	9.038	9.131	VV	433	10877	0.30%	0.016%
113	9.157	9.131	9.194	VV	404	7167	0.20%	0.011%
114	9.242	9.194	9.291	PV	1617	39925	1.11%	0.060%
115	9.338	9.291	9.361	VV	533	15076	0.42%	0.023%
116	9.388	9.361	9.406	VV	658	11882	0.33%	0.018%
117	9.418	9.406	9.429	VV	364	4522	0.13%	0.007%
118	9.447	9.429	9.468	VV	442	6325	0.18%	0.009%
119	9.522	9.468	9.636	VV	15220	267326	7.45%	0.400%
120	9.661	9.636	9.712	VV	3096	56081	1.56%	0.084%
121	9.734	9.712	9.751	VV	609	12308	0.34%	0.018%
122	9.760	9.751	9.792	VV	538	9057	0.25%	0.014%
123	9.833	9.792	9.864	VV	1229	29367	0.82%	0.044%
124	9.899	9.864	9.951	VV	875	14367	0.40%	0.021%
125	9.990	9.951	10.016	VV	1192	18809	0.52%	0.028%
126	10.048	10.016	10.069	VV	1224	21502	0.60%	0.032%
127	10.097	10.069	10.177	VV	722	28851	0.80%	0.043%
128	10.192	10.177	10.217	VV	354	4457	0.12%	0.007%
129	10.236	10.217	10.268	VV	385	6232	0.17%	0.009%
130	10.293	10.268	10.338	VV	1515	28996	0.81%	0.043%
131	10.353	10.338	10.372	VV	677	9882	0.28%	0.015%
132	10.398	10.372	10.419	VV	2719	37804	1.05%	0.057%
133	10.438	10.419	10.450	VV	1466	20918	0.58%	0.031%
134	10.469	10.450	10.518	VV	2226	38872	1.08%	0.058%
135	10.533	10.518	10.557	VV	364	5455	0.15%	0.008%
136	10.632	10.557	10.690	PV	30641	411314	11.46%	0.615%
137	10.709	10.690	10.732	VV	4751	67763	1.89%	0.101%
138	10.742	10.732	10.771	VV	1787	29248	0.82%	0.044%
139	10.781	10.771	10.804	VV	808	14033	0.39%	0.021%
140	10.817	10.804	10.838	VV	560	8759	0.24%	0.013%
141	10.851	10.838	10.867	VV	486	6826	0.19%	0.010%

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142	10.892	10.867	10.909	VV	752	13323	0.37%	0.020%
143	10.931	10.909	11.005	VV	3004	54596	1.52%	0.082%
144	11.031	11.005	11.050	VV	636	11620	0.32%	0.017%
145	11.098	11.050	11.139	VV	2870	58561	1.63%	0.088%
146	11.178	11.139	11.221	VV	2353	58243	1.62%	0.087%
147	11.247	11.221	11.265	VV	743	12869	0.36%	0.019%
148	11.288	11.265	11.310	VV	1303	17001	0.47%	0.025%
149	11.360	11.310	11.371	PV	1187	22655	0.63%	0.034%
150	11.405	11.371	11.449	VV	321464	3588056	100.00%	5.365%
151	11.465	11.449	11.491	VV	4149	62844	1.75%	0.094%
152	11.513	11.491	11.528	VV	4322	60660	1.69%	0.091%
153	11.545	11.528	11.565	VV	5508	72494	2.02%	0.108%
154	11.580	11.565	11.596	VV	2498	30917	0.86%	0.046%
155	11.612	11.596	11.654	VV	2510	34236	0.95%	0.051%
156	11.667	11.654	11.681	VV	455	4956	0.14%	0.007%
157	11.699	11.681	11.718	VV	575	7760	0.22%	0.012%
158	11.765	11.718	11.776	VV	2669	37749	1.05%	0.056%
159	11.794	11.776	11.836	VV	6537	100858	2.81%	0.151%
160	11.904	11.836	11.948	VV	2705	98241	2.74%	0.147%
161	11.964	11.948	11.984	VV	653	7375	0.21%	0.011%
162	12.015	11.984	12.069	VV	46517	579215	16.14%	0.866%
163	12.083	12.069	12.094	VV	1092	14762	0.41%	0.022%
164	12.104	12.094	12.128	VV	1042	13105	0.37%	0.020%
165	12.149	12.128	12.160	VV	644	9812	0.27%	0.015%
166	12.173	12.160	12.198	VV	792	11097	0.31%	0.017%
167	12.221	12.198	12.254	PV	1015	16034	0.45%	0.024%
168	12.280	12.254	12.304	VV	3520	44936	1.25%	0.067%
169	12.328	12.304	12.350	VV	2380	34330	0.96%	0.051%
170	12.364	12.350	12.381	VV	857	12426	0.35%	0.019%
171	12.402	12.381	12.418	VV	2901	40359	1.12%	0.060%
172	12.441	12.418	12.494	VV	90262	1087139	30.30%	1.625%
173	12.508	12.494	12.530	VV	1263	16280	0.45%	0.024%
174	12.547	12.530	12.558	VV	310	3268	0.09%	0.005%
175	12.577	12.558	12.594	PV	731	6869	0.19%	0.010%
176	12.626	12.594	12.641	VV	2812	42826	1.19%	0.064%
177	12.658	12.641	12.708	VV	2267	44504	1.24%	0.067%
178	12.737	12.708	12.774	VV	77229	891750	24.85%	1.333%
179	12.797	12.774	12.813	VV	7608	92255	2.57%	0.138%
180	12.846	12.813	12.881	VV	225459	2823220	78.68%	4.221%
181	12.941	12.881	12.981	VV	3456	92140	2.57%	0.138%
182	13.013	12.981	13.056	PV	5457	103225	2.88%	0.154%
183	13.083	13.056	13.120	VV	3993	73816	2.06%	0.110%
184	13.138	13.120	13.163	VV	2208	30744	0.86%	0.046%
185	13.199	13.163	13.220	VV	3325	50295	1.40%	0.075%
186	13.243	13.220	13.278	VV	9533	128413	3.58%	0.192%
187	13.328	13.278	13.375	VV	7080	129425	3.61%	0.194%
188	13.396	13.375	13.414	VV	769	7761	0.22%	0.012%
189	13.437	13.414	13.455	PV	3337	43570	1.21%	0.065%
190	13.473	13.455	13.495	VV	4232	54574	1.52%	0.082%
191	13.513	13.495	13.548	VV	2550	37494	1.04%	0.056%
192	13.601	13.548	13.623	VV	5127	98433	2.74%	0.147%
193	13.643	13.623	13.694	VV	3033	61882	1.72%	0.093%
194	13.727	13.694	13.751	VV	868	18103	0.50%	0.027%

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195	13.762	13.751	13.778	VV	242	2811	0.08%	0.004%
196	13.826	13.778	13.875	PV	1746	50652	1.41%	0.076%
197	13.891	13.875	13.915	VV	681	9216	0.26%	0.014%
198	14.023	13.915	14.041	PV	2121	85969	2.40%	0.129%
199	14.063	14.041	14.117	VV	7605	125636	3.50%	0.188%
200	14.161	14.117	14.188	VV	2882	51339	1.43%	0.077%
201	14.234	14.188	14.274	VV	7229	159871	4.46%	0.239%
202	14.300	14.274	14.324	VV	11978	160511	4.47%	0.240%
203	14.365	14.324	14.414	VV	9641	190582	5.31%	0.285%
204	14.444	14.414	14.463	VV	1727	41620	1.16%	0.062%
205	14.482	14.463	14.504	VV	2842	41664	1.16%	0.062%
206	14.511	14.504	14.534	VV	928	13053	0.36%	0.020%
207	14.563	14.534	14.581	VV	3683	61899	1.73%	0.093%
208	14.609	14.581	14.630	VV	32906	454041	12.65%	0.679%
209	14.650	14.630	14.683	VV	39275	532954	14.85%	0.797%
210	14.701	14.683	14.721	VV	2894	48690	1.36%	0.073%
211	14.770	14.721	14.830	VV	8755	194610	5.42%	0.291%
212	14.854	14.830	14.878	VV	1983	37527	1.05%	0.056%
213	14.920	14.878	14.934	VV	4179	76058	2.12%	0.114%
214	14.946	14.934	14.964	VV	3772	51594	1.44%	0.077%
215	14.973	14.964	15.028	VV	2516	44546	1.24%	0.067%
216	15.075	15.028	15.171	VV	21399	400008	11.15%	0.598%
217	15.231	15.171	15.253	VV	9666	175218	4.88%	0.262%
218	15.278	15.253	15.307	VV	8003	152761	4.26%	0.228%
219	15.320	15.307	15.348	VV	2553	39043	1.09%	0.058%
220	15.363	15.348	15.378	VV	835	9720	0.27%	0.015%
221	15.444	15.378	15.491	VV	4133	152820	4.26%	0.228%
222	15.523	15.491	15.558	VV	2874	69716	1.94%	0.104%
223	15.607	15.558	15.627	VV	3420	84454	2.35%	0.126%
224	15.648	15.627	15.674	VV	3666	63118	1.76%	0.094%
225	15.713	15.674	15.741	VV	4047	98575	2.75%	0.147%
226	15.767	15.741	15.801	VV	3116	73654	2.05%	0.110%
227	15.811	15.801	15.835	VV	896	15026	0.42%	0.022%
228	15.897	15.835	15.931	VV	4421	110284	3.07%	0.165%
229	15.951	15.931	15.971	VV	3711	65430	1.82%	0.098%
230	16.006	15.971	16.024	VV	4556	104520	2.91%	0.156%
231	16.035	16.024	16.045	VV	3750	43600	1.22%	0.065%
232	16.088	16.045	16.122	VV	11388	294426	8.21%	0.440%
233	16.163	16.122	16.182	VV	49869	764475	21.31%	1.143%
234	16.191	16.182	16.224	VV	23676	320928	8.94%	0.480%
235	16.292	16.224	16.317	VV	9487	254478	7.09%	0.380%
236	16.335	16.317	16.381	VV	3836	132904	3.70%	0.199%
237	16.415	16.381	16.427	VV	4734	107759	3.00%	0.161%
238	16.481	16.427	16.510	VV	35115	613189	17.09%	0.917%
239	16.539	16.510	16.597	VV	38032	657333	18.32%	0.983%
240	16.640	16.597	16.668	VV	13342	310588	8.66%	0.464%
241	16.674	16.668	16.688	VV	7570	82277	2.29%	0.123%
242	16.703	16.688	16.723	VV	6914	128984	3.59%	0.193%
243	16.743	16.723	16.766	VV	7113	149649	4.17%	0.224%
244	16.785	16.766	16.804	VV	6098	121655	3.39%	0.182%
245	16.834	16.804	16.864	VV	6142	194567	5.42%	0.291%
246	16.906	16.864	16.983	VV	8417	463338	12.91%	0.693%

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247	17.030	16.983	17.088	VV	12345	498453	13.89%	0.745%
248	17.117	17.088	17.181	VV	22266	557998	15.55%	0.834%
249	17.200	17.181	17.234	VV	7737	218668	6.09%	0.327%
250	17.267	17.234	17.307	VV	6525	261750	7.30%	0.391%
251	17.324	17.307	17.334	VV	6024	90298	2.52%	0.135%
252	17.360	17.334	17.397	VV	6118	206672	5.76%	0.309%
253	17.439	17.397	17.448	VV	7139	192238	5.36%	0.287%
254	17.541	17.448	17.571	VV	11048	631055	17.59%	0.944%
255	17.640	17.571	17.654	VV	10977	432260	12.05%	0.646%
256	17.684	17.654	17.741	VV	12265	527779	14.71%	0.789%
257	17.762	17.741	17.790	VV	10926	252739	7.04%	0.378%
258	17.817	17.790	17.835	VV	14048	294199	8.20%	0.440%
259	17.843	17.835	17.868	VV	11165	190258	5.30%	0.284%
260	17.907	17.868	17.937	VV	48017	945017	26.34%	1.413%
261	17.974	17.937	18.015	VV	23862	703299	19.60%	1.052%
262	18.041	18.015	18.058	VV	16416	324478	9.04%	0.485%
263	18.073	18.058	18.130	VV	14209	499998	13.94%	0.748%
264	18.158	18.130	18.217	VV	35669	823795	22.96%	1.232%
265	18.240	18.217	18.258	VV	12575	273664	7.63%	0.409%
266	18.292	18.258	18.315	VV	15266	428312	11.94%	0.640%
267	18.376	18.315	18.418	VV	17124	746250	20.80%	1.116%
268	18.426	18.418	18.439	VV	10461	126542	3.53%	0.189%
269	18.475	18.439	18.549	VV	17134	872550	24.32%	1.305%
270	18.568	18.549	18.617	VV	12348	473391	13.19%	0.708%
271	18.639	18.617	18.657	VV	13296	289439	8.07%	0.433%
272	18.676	18.657	18.692	VV	14106	270432	7.54%	0.404%
273	18.725	18.692	18.764	VV	24839	848161	23.64%	1.268%
274	18.785	18.764	18.817	VV	18138	514769	14.35%	0.770%
275	18.838	18.817	18.860	VV	16758	403658	11.25%	0.604%
276	18.880	18.860	18.910	VV	17216	473036	13.18%	0.707%
277	18.921	18.910	18.940	VV	15150	268196	7.47%	0.401%
278	18.990	18.940	19.030	VV	18840	891847	24.86%	1.333%
279	19.040	19.030	19.074	VV	15639	400862	11.17%	0.599%
280	19.178	19.074	19.189	VV	19295	1104628	30.79%	1.652%
281	19.201	19.189	19.228	VV	19830	416101	11.60%	0.622%
282	19.268	19.228	19.289	VV	21044	688183	19.18%	1.029%
283	19.315	19.289	19.343	VV	26613	686941	19.15%	1.027%
284	19.384	19.343	19.418	VV	26015	953032	26.56%	1.425%
285	19.433	19.418	19.452	VV	21391	405596	11.30%	0.606%
286	19.481	19.452	19.491	VV	23366	504422	14.06%	0.754%
287	19.509	19.491	19.550	VV	24919	785304	21.89%	1.174%
288	19.580	19.550	19.638	VV	22016	1049345	29.25%	1.569%
289	19.691	19.638	19.737	VV	31125	1376249	38.36%	2.058%
290	19.758	19.737	19.772	VV	23325	462760	12.90%	0.692%
291	19.780	19.772	19.810	VV	22775	494769	13.79%	0.740%
292	19.844	19.810	19.865	VV	22585	708104	19.74%	1.059%
293	19.902	19.865	19.912	VV	22758	612788	17.08%	0.916%
294	19.951	19.912	19.978	VV	24623	898415	25.04%	1.343%
295	19.988	19.978	20.012	VV	23425	474794	13.23%	0.710%
296	20.027	20.012	20.051	VV	24110	530657	14.79%	0.793%
297	20.058	20.051	20.068	VV	22306	223173	6.22%	0.334%
298	20.101	20.068	20.152	VV	24279	1133514	31.59%	1.695%
299	20.182	20.152	20.211	VV	23885	822071	22.91%	1.229%

					rteres			
300	20.285	20.211	20.315	VV	29894	1657463	46.19%	2.478%
301	20.330	20.315	20.341	VV	26389	405744	11.31%	0.607%
302	20.358	20.341	20.439	VV	26789	1419248	39.55%	2.122%
303	20.487	20.439	20.651	VV	24949	2770124	77.20%	4.142%
304	20.703	20.651	20.741	VV	21447	1078946	30.07%	1.613%
305	20.768	20.741	20.825	VV	21673	1006912	28.06%	1.506%
306	20.840	20.825	20.851	VV	19066	283081	7.89%	0.423%
307	20.865	20.851	20.897	VV	18019	475550	13.25%	0.711%
308	20.910	20.897	20.978	VV	16583	709807	19.78%	1.061%
309	21.028	20.978	21.052	VV	19829	750722	20.92%	1.122%
310	21.061	21.052	21.131	VV	17789	738282	20.58%	1.104%
311	21.142	21.131	21.153	VV	14819	191668	5.34%	0.287%
312	21.168	21.153	21.211	VV	15567	501919	13.99%	0.750%
313	21.218	21.211	21.278	VV	14312	488054	13.60%	0.730%
314	21.311	21.278	21.351	VV	13506	512480	14.28%	0.766%
315	21.379	21.351	21.416	VV	14901	518808	14.46%	0.776%
316	21.432	21.416	21.461	VV	14403	356376	9.93%	0.533%
317	21.482	21.461	21.563	VV	13581	722862	20.15%	1.081%
318	21.571	21.563	21.611	VV	9301	222364	6.20%	0.332%
319	21.621	21.611	21.631	VV	6813	75200	2.10%	0.112%
320	21.642	21.631	21.680	VV	6251	157977	4.40%	0.236%
321	21.722	21.680	21.769	VV	5804	266603	7.43%	0.399%
322	21.789	21.769	21.808	VV	4610	86135	2.40%	0.129%
323	21.868	21.808	21.931	VV	3383	159708	4.45%	0.239%
324	21.938	21.931	21.967	VV	1107	10481	0.29%	0.016%
Sum of corrected areas:					66880265			

Aliphatic EPH 012425.M Thu Feb 06 04:42:53 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	4	SDG No.:	Q1290
Lab Sample ID:	Q1290-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
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
02/05/25 09:25	02/05/25 18:24	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	24.1		1	1.95	4.52	mg/kg	FC068201.D
Total EPH	Total EPH	24.1			1.95	4.52	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:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	4	SDG No.:	Q1290
Lab Sample ID:	Q1290-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
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
FC068201.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	24.1		1.95	4.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	43.2		2.04	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.4		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.0		40 - 140	62%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-06	Acq On:	05 Feb 2025 18:24
Client Sample ID:	4	Operator:	YP/AJ
Data file:	FC068201.D	Misc:	
Instrument:	FID_C	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	620743	4.482	300	ug/ml
Aliphatic C12-C16	6.378	9.761	1793644	13.025	200	ug/ml
Aliphatic C16-C21	9.762	13.114	16255747	120.396	300	ug/ml
Aliphatic C21-C28	13.115	16.766	23693573	186.259	400	ug/ml
Aliphatic C28-C40	16.767	21.570	59408321	573.224	600	ug/ml
Aliphatic EPH	3.110	21.570	101772028	897.386		ug/ml
ortho-Terphenyl (SURR)	11.407	11.407	4840379	30.98		ug/ml
1-chlorooctadecane (SURR)	12.848	12.848	4072965	35.42		ug/ml
Aliphatic C9-C28	3.110	16.766	42363707	324.162	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068201.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 18:24
 Operator : YP/AJ
 Sample : Q1290-06
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:14:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.407	4840379	30.975 ug/mlm
Spiked Amount	50.000	Recovery	= 61.95%
12) S 1-chlorooctadecane (S...	12.848	4072965	35.416 ug/ml
Spiked Amount	50.000	Recovery	= 70.83%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068201.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 18:24
Operator : YP/AJ
Sample : Q1290-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

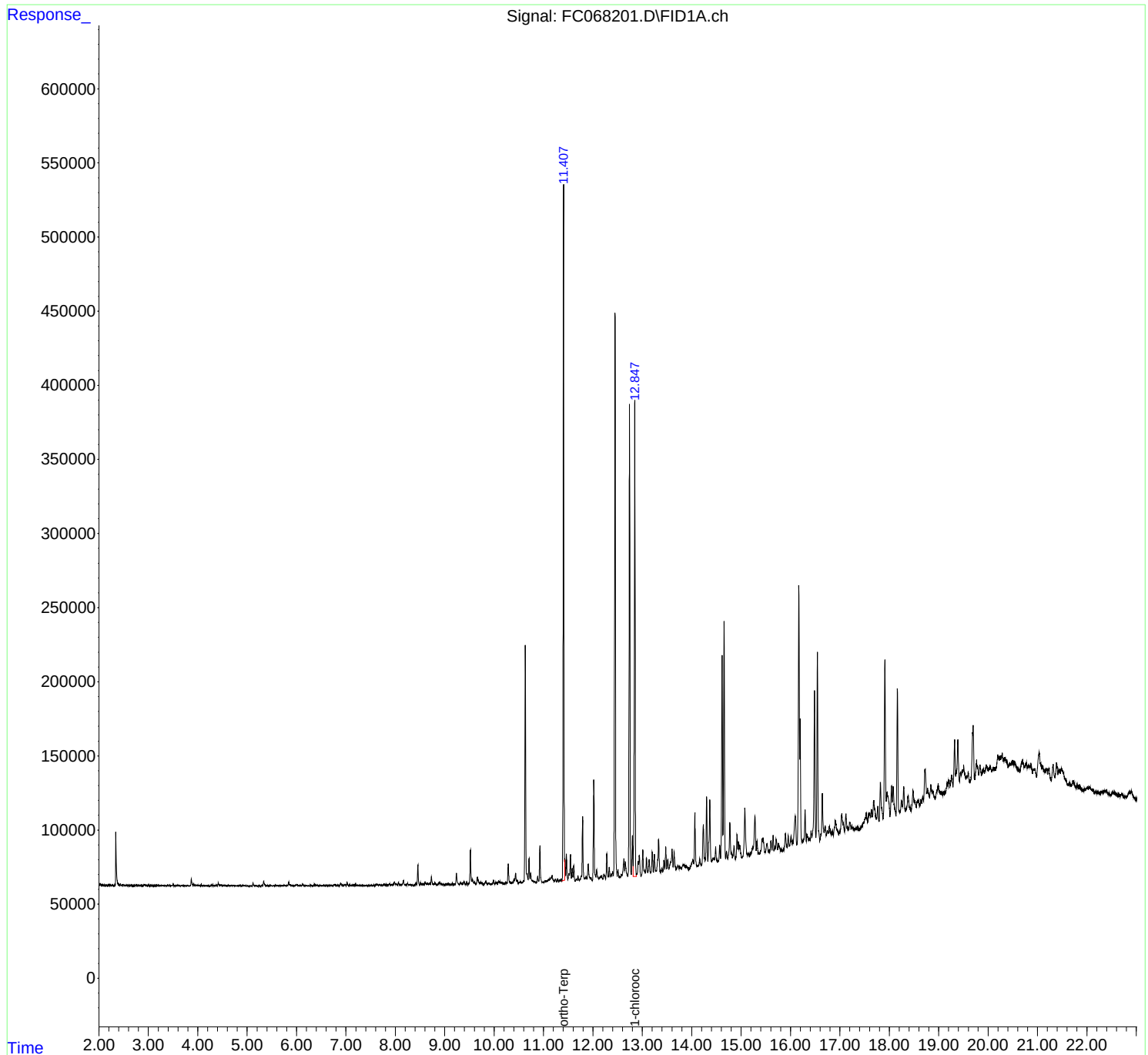
Instrument :
FID_C
ClientSampleId :
4

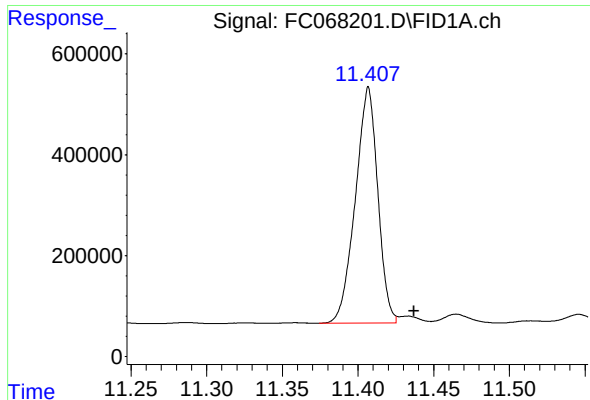
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:14:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





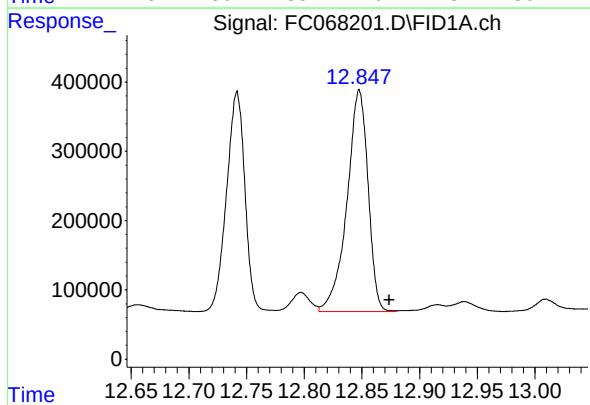
#9 ortho-Terphenyl (SURR)

R.T.: 11.407 min
Delta R.T.: -0.030 min
Response: 4840379
Conc: 30.98 ug/ml

Instrument :
FID_C
ClientSampleId :
4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#12 1-chlorooctadecane (SURR)

R.T.: 12.848 min
Delta R.T.: -0.026 min
Response: 4072965
Conc: 35.42 ug/ml

Instrument :

FID_C

ClientSampleId :

4

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052

Data File : FC068201.D

Signal(s) : FID1A.ch

Acq On : 05 Feb 2025 18:24

Sample : Q1290-06

Misc :

ALS Vial : 19 Sample Multiplier: 1

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Integration File: sample.E

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

Title : GC Extractables

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.116	3.100	3.190	PV	237	6542	0.13%	0.006%
2	3.211	3.190	3.318	VV	291	6781	0.14%	0.006%
3	3.328	3.318	3.374	PV	138	3376	0.07%	0.003%
4	3.400	3.374	3.428	VV	232	4803	0.10%	0.004%
5	3.440	3.428	3.461	VV	182	2138	0.04%	0.002%
6	3.503	3.461	3.540	VV	1240	14076	0.28%	0.013%
7	3.552	3.540	3.561	VV	174	1260	0.03%	0.001%
8	3.581	3.561	3.600	VV	341	5215	0.10%	0.005%
9	3.629	3.600	3.664	VV	286	5666	0.11%	0.005%
10	3.697	3.664	3.720	VV	272	4002	0.08%	0.004%
11	3.741	3.720	3.757	VV	187	1953	0.04%	0.002%
12	3.798	3.757	3.838	VV	233	5299	0.11%	0.005%
13	3.870	3.838	3.904	PV	4721	61083	1.22%	0.055%
14	3.917	3.904	4.008	VV	1144	30492	0.61%	0.027%
15	4.032	4.008	4.050	VV	441	6863	0.14%	0.006%
16	4.069	4.050	4.120	VV	703	11938	0.24%	0.011%
17	4.130	4.120	4.195	VV	149	3336	0.07%	0.003%
18	4.203	4.195	4.248	VV	107	1877	0.04%	0.002%
19	4.269	4.248	4.324	PV	471	15410	0.31%	0.014%
20	4.337	4.324	4.358	VV	374	5241	0.10%	0.005%
21	4.369	4.358	4.395	VV	340	5087	0.10%	0.005%
22	4.417	4.395	4.448	VV	2102	29970	0.60%	0.027%
23	4.465	4.448	4.508	VV	713	17178	0.34%	0.015%
24	4.521	4.508	4.532	VV	310	3675	0.07%	0.003%
25	4.550	4.532	4.585	VV	326	6522	0.13%	0.006%
26	4.621	4.585	4.663	VV	324	10437	0.21%	0.009%
27	4.675	4.663	4.700	VV	252	4473	0.09%	0.004%
28	4.716	4.700	4.750	VV	277	5506	0.11%	0.005%
29	4.763	4.750	4.785	VV	240	2845	0.06%	0.003%
30	4.791	4.785	4.809	VV	144	1586	0.03%	0.001%
31	4.857	4.809	4.886	VV	284	9447	0.19%	0.008%
32	4.905	4.886	4.940	VV	367	7462	0.15%	0.007%
33	4.950	4.940	4.962	VV	257	2649	0.05%	0.002%
34	4.979	4.962	4.993	VV	347	3847	0.08%	0.003%
35	5.004	4.993	5.078	VV	157	4947	0.10%	0.004%
36	5.089	5.078	5.100	VV	136	1129	0.02%	0.001%

					rters			
37	5.121	5.100	5.226	VV	2032	29911	0.60%	0.027%
38	5.248	5.226	5.281	PV	142	899		
39	5.300	5.281	5.313	PV	467	5530		
40	5.335	5.313	5.395	VV	3303	52561		
41	5.409	5.395	5.460	VV	457	9604		
42	5.481	5.460	5.517	VV	326	6548		
43	5.543	5.517	5.559	VV	282	5597	0.11%	0.005%
44	5.575	5.559	5.588	VV	635	6951	0.14%	0.006%
45	5.604	5.588	5.617	VV	354	5233	0.10%	0.005%
46	5.628	5.617	5.646	VV	292	3582	0.07%	0.003%
47	5.665	5.646	5.677	VV	318	3972	0.08%	0.004%
48	5.711	5.677	5.730	VV	389	9137	0.18%	0.008%
49	5.747	5.730	5.788	VV	478	9689	0.19%	0.009%
50	5.802	5.788	5.816	VV	292	3709	0.07%	0.003%
51	5.841	5.816	5.928	VV	2680	51883	1.03%	0.046%
52	6.003	5.928	6.039	VV	1052	27269	0.54%	0.024%
53	6.056	6.039	6.088	VV	395	7649	0.15%	0.007%
54	6.125	6.088	6.161	VV	1497	25763	0.51%	0.023%
55	6.171	6.161	6.187	VV	332	3869	0.08%	0.003%
56	6.201	6.187	6.250	VV	241	4917	0.10%	0.004%
57	6.279	6.250	6.325	PV	509	7642	0.15%	0.007%
58	6.359	6.325	6.409	VV	1171	24717	0.49%	0.022%
59	6.424	6.409	6.451	VV	504	8458	0.17%	0.008%
60	6.464	6.451	6.518	VV	277	6761	0.13%	0.006%
61	6.548	6.518	6.569	VV	495	6754	0.13%	0.006%
62	6.600	6.569	6.638	PV	291	6400	0.13%	0.006%
63	6.669	6.638	6.693	VV	458	6703	0.13%	0.006%
64	6.708	6.693	6.720	VV	212	1968	0.04%	0.002%
65	6.761	6.720	6.781	VV	705	15259	0.30%	0.014%
66	6.796	6.781	6.818	VV	622	10857	0.22%	0.010%
67	6.833	6.818	6.864	VV	495	8133	0.16%	0.007%
68	6.893	6.864	6.928	VV	2102	30806	0.61%	0.028%
69	6.934	6.928	6.957	VV	497	6467	0.13%	0.006%
70	6.976	6.957	7.003	VV	824	13813	0.28%	0.012%
71	7.025	7.003	7.053	VV	2415	29313	0.58%	0.026%
72	7.071	7.053	7.125	VV	649	14367	0.29%	0.013%
73	7.133	7.125	7.161	VV	406	6892	0.14%	0.006%
74	7.198	7.161	7.220	VV	1008	15065	0.30%	0.013%
75	7.265	7.220	7.355	VV	317	15369	0.31%	0.014%
76	7.368	7.355	7.408	VV	348	5631	0.11%	0.005%
77	7.418	7.408	7.455	PV	199	2098	0.04%	0.002%
78	7.477	7.455	7.496	PV	375	4531	0.09%	0.004%
79	7.529	7.496	7.551	VV	245	4892	0.10%	0.004%
80	7.558	7.551	7.581	VV	216	2773	0.06%	0.002%
81	7.618	7.581	7.665	VV	1175	27843	0.55%	0.025%
82	7.682	7.665	7.731	VV	601	14504	0.29%	0.013%
83	7.764	7.731	7.804	VV	836	21759	0.43%	0.019%
84	7.820	7.804	7.844	VV	666	9268	0.18%	0.008%
85	7.884	7.844	7.906	VV	1213	23852	0.48%	0.021%
86	7.926	7.906	7.937	VV	537	7726	0.15%	0.007%
87	7.982	7.937	7.998	VV	2436	41465	0.83%	0.037%
88	8.010	7.998	8.040	VV	1511	22786	0.45%	0.020%
89	8.066	8.040	8.094	VV	2120	29161	0.58%	0.026%

Instrument :

FID_C

ClientSampleId :

4

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

90	8.164	8.094	8.198	VV	3256	66172	1.32%	0.059%
91	8.215	8.198	8.229	VV	611	8948		
92	8.250	8.229	8.292	VV	1436	22190		
93	8.299	8.292	8.306	VV	261	1987		
94	8.310	8.306	8.328	VV	273	1344		
95	8.343	8.328	8.382	VV	260	3568		
96	8.419	8.382	8.434	PV	1262	18906	0.38%	0.017%
97	8.458	8.434	8.491	VV	13829	156455	3.12%	0.140%
98	8.509	8.491	8.524	VV	1400	19886	0.40%	0.018%
99	8.534	8.524	8.561	VV	1062	17167	0.34%	0.015%
100	8.574	8.561	8.585	VV	745	9564	0.19%	0.009%
101	8.607	8.585	8.629	VV	1756	30985	0.62%	0.028%
102	8.650	8.629	8.676	VV	1192	23245	0.46%	0.021%
103	8.698	8.676	8.712	VV	1584	21461	0.43%	0.019%
104	8.732	8.712	8.780	VV	5543	82198	1.64%	0.074%
105	8.801	8.780	8.845	VV	1719	30542	0.61%	0.027%
106	8.885	8.845	8.951	VV	1953	60024	1.20%	0.054%
107	8.971	8.951	8.998	VV	1112	12956	0.26%	0.012%
108	9.024	8.998	9.040	PV	895	11134	0.22%	0.010%
109	9.055	9.040	9.092	VV	749	15626	0.31%	0.014%
110	9.105	9.092	9.124	VV	362	4483	0.09%	0.004%
111	9.158	9.124	9.180	VV	1019	13904	0.28%	0.012%
112	9.239	9.180	9.291	VV	7967	124626	2.48%	0.112%
113	9.319	9.291	9.335	VV	1394	20206	0.40%	0.018%
114	9.353	9.335	9.367	VV	814	13788	0.27%	0.012%
115	9.389	9.367	9.431	VV	2369	40494	0.81%	0.036%
116	9.448	9.431	9.470	VV	1512	20592	0.41%	0.018%
117	9.521	9.470	9.547	VV	23406	293595	5.85%	0.263%
118	9.560	9.547	9.588	VV	3689	60123	1.20%	0.054%
119	9.598	9.588	9.632	VV	1482	29018	0.58%	0.026%
120	9.661	9.632	9.707	VV	5031	99649	1.99%	0.089%
121	9.735	9.707	9.785	VV	1414	37134	0.74%	0.033%
122	9.834	9.785	9.868	VV	2521	44958	0.90%	0.040%
123	9.897	9.868	9.948	VV	735	14194	0.28%	0.013%
124	9.988	9.948	10.013	PV	2854	38124	0.76%	0.034%
125	10.047	10.013	10.068	VV	1106	24840	0.49%	0.022%
126	10.095	10.068	10.107	VV	1895	28097	0.56%	0.025%
127	10.117	10.107	10.142	VV	1730	25663	0.51%	0.023%
128	10.157	10.142	10.180	VV	1011	14537	0.29%	0.013%
129	10.191	10.180	10.211	VV	225	2735	0.05%	0.002%
130	10.237	10.211	10.263	VV	1352	19868	0.40%	0.018%
131	10.287	10.263	10.336	VV	13318	170824	3.40%	0.153%
132	10.352	10.336	10.381	VV	867	16065	0.32%	0.014%
133	10.402	10.381	10.414	VV	3039	38573	0.77%	0.035%
134	10.437	10.414	10.457	VV	6754	101550	2.02%	0.091%
135	10.467	10.457	10.498	VV	2117	29224	0.58%	0.026%
136	10.536	10.498	10.553	VV	1213	19842	0.40%	0.018%
137	10.633	10.553	10.687	VV	156574	1882909	37.52%	1.686%
138	10.708	10.687	10.727	VV	16468	204582	4.08%	0.183%
139	10.740	10.727	10.776	VV	6335	95696	1.91%	0.086%
140	10.787	10.776	10.808	VV	1397	19846	0.40%	0.018%
141	10.819	10.808	10.838	VV	785	9774	0.19%	0.009%

Instrument :

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Manual IntegrationsAPPROVED

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				rters				
142	10.882	10.838	10.903	VV	4195	58095	1.16%	0.052%
143	10.927	10.903	11.002	VV	24980	318280	0.00%	0.000%
144	11.034	11.002	11.054	VV	1158	20263	0.00%	0.000%
145	11.070	11.054	11.080	VV	946	11853	0.00%	0.000%
146	11.098	11.080	11.111	VV	2118	28510	0.00%	0.000%
147	11.126	11.111	11.135	VV	2190	27393	0.00%	0.000%
148	11.173	11.135	11.220	VV	4489	122867	2.45%	0.110%
149	11.240	11.220	11.265	VV	2077	30262	0.60%	0.027%
150	11.286	11.265	11.307	VV	2232	25702	0.51%	0.023%
151	11.325	11.307	11.341	PV	1503	19274	0.38%	0.017%
152	11.359	11.341	11.372	VV	1808	22514	0.45%	0.020%
153	11.407	11.372	11.448	VV	468555	5018256	100.00%	4.494%
154	11.465	11.448	11.494	VV	18746	240879	4.80%	0.216%
155	11.514	11.494	11.524	VV	5267	68011	1.36%	0.061%
156	11.546	11.524	11.565	VV	18129	235418	4.69%	0.211%
157	11.581	11.565	11.596	VV	8688	102019	2.03%	0.091%
158	11.612	11.596	11.643	VV	10725	128263	2.56%	0.115%
159	11.664	11.643	11.677	VV	1584	19939	0.40%	0.018%
160	11.698	11.677	11.725	VV	3559	48604	0.97%	0.044%
161	11.792	11.725	11.838	VV	43315	602607	12.01%	0.540%
162	11.862	11.838	11.881	VV	2515	50316	1.00%	0.045%
163	11.904	11.881	11.948	VV	11192	184963	3.69%	0.166%
164	11.961	11.948	11.986	VV	1896	28054	0.56%	0.025%
165	12.018	11.986	12.058	PV	67425	834679	16.63%	0.747%
166	12.076	12.058	12.122	VV	6684	123527	2.46%	0.111%
167	12.151	12.122	12.162	VV	2360	39682	0.79%	0.036%
168	12.176	12.162	12.200	VV	2479	35549	0.71%	0.032%
169	12.222	12.200	12.256	VV	3717	66416	1.32%	0.059%
170	12.280	12.256	12.310	VV	17148	206280	4.11%	0.185%
171	12.331	12.310	12.351	VV	7767	103355	2.06%	0.093%
172	12.368	12.351	12.381	VV	3435	46874	0.93%	0.042%
173	12.399	12.381	12.414	VV	4784	66218	1.32%	0.059%
174	12.447	12.414	12.491	VV	379509	4370600	87.09%	3.914%
175	12.508	12.491	12.532	VV	5828	73111	1.46%	0.065%
176	12.577	12.532	12.588	VV	2415	41118	0.82%	0.037%
177	12.626	12.588	12.642	VV	12663	221532	4.41%	0.198%
178	12.656	12.642	12.706	VV	10569	190308	3.79%	0.170%
179	12.742	12.706	12.774	VV	317249	3532796	70.40%	3.164%
180	12.797	12.774	12.813	VV	28085	321788	6.41%	0.288%
181	12.848	12.813	12.880	VV	320124	4080568	81.31%	3.654%
182	12.916	12.880	12.924	VV	9902	126170	2.51%	0.113%
183	12.939	12.924	12.973	VV	14247	203353	4.05%	0.182%
184	13.009	12.973	13.058	PV	17676	280634	5.59%	0.251%
185	13.084	13.058	13.108	VV	11812	175770	3.50%	0.157%
186	13.137	13.108	13.170	VV	10575	169783	3.38%	0.152%
187	13.201	13.170	13.224	VV	15013	224721	4.48%	0.201%
188	13.243	13.224	13.285	VV	13411	202982	4.04%	0.182%
189	13.329	13.285	13.374	VV	23312	448237	8.93%	0.401%
190	13.397	13.374	13.414	VV	3467	49756	0.99%	0.045%
191	13.438	13.414	13.454	VV	8267	113248	2.26%	0.101%
192	13.474	13.454	13.496	VV	17568	224725	4.48%	0.201%
193	13.515	13.496	13.537	VV	9098	128286	2.56%	0.115%
194	13.601	13.537	13.623	VV	15528	371413	7.40%	0.333%

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Manual IntegrationsAPPROVED

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195	13.644	13.623	13.689	VV	13247	226391	4.51%	0.203%
196	13.723	13.689	13.741	VV	3855	83757		
197	13.760	13.741	13.785	VV	3024	57950		
198	13.828	13.785	13.870	VV	3980	149862		
199	13.884	13.870	13.951	VV	3003	70698		
200	14.022	13.951	14.039	PV	6008	167625		
201	14.063	14.039	14.127	VV	38121	534538	10.65%	0.479%
202	14.161	14.127	14.196	VV	5931	116566	2.32%	0.104%
203	14.234	14.196	14.274	VV	28469	531639	10.59%	0.476%
204	14.300	14.274	14.324	VV	46833	620008	12.36%	0.555%
205	14.365	14.324	14.408	VV	44220	770528	15.35%	0.690%
206	14.449	14.408	14.465	VV	4542	129116	2.57%	0.116%
207	14.483	14.465	14.533	VV	11710	198210	3.95%	0.178%
208	14.565	14.533	14.584	VV	12642	179893	3.58%	0.161%
209	14.613	14.584	14.633	VV	139509	1797919	35.83%	1.610%
210	14.654	14.633	14.685	VV	161978	2024777	40.35%	1.813%
211	14.704	14.685	14.729	VV	7279	125684	2.50%	0.113%
212	14.771	14.729	14.825	VV	26386	520832	10.38%	0.466%
213	14.856	14.825	14.885	VV	10051	174559	3.48%	0.156%
214	14.916	14.885	14.934	VV	17321	253136	5.04%	0.227%
215	14.948	14.934	14.962	VV	12078	161723	3.22%	0.145%
216	14.973	14.962	15.021	VV	9774	174150	3.47%	0.156%
217	15.075	15.021	15.126	VV	33801	679757	13.55%	0.609%
218	15.146	15.126	15.168	VV	3000	54199	1.08%	0.049%
219	15.279	15.168	15.304	VV	27350	712490	14.20%	0.638%
220	15.320	15.304	15.355	VV	10275	160490	3.20%	0.144%
221	15.360	15.355	15.376	VV	1849	20060	0.40%	0.018%
222	15.423	15.376	15.433	VV	11100	183961	3.67%	0.165%
223	15.445	15.433	15.484	VV	11353	204157	4.07%	0.183%
224	15.523	15.484	15.569	VV	7166	178841	3.56%	0.160%
225	15.604	15.569	15.625	VV	8222	144614	2.88%	0.130%
226	15.647	15.625	15.670	VV	11699	174188	3.47%	0.156%
227	15.710	15.670	15.736	VV	8629	178083	3.55%	0.159%
228	15.755	15.736	15.800	VV	5677	121357	2.42%	0.109%
229	15.815	15.800	15.831	VV	1391	13026	0.26%	0.012%
230	15.897	15.831	15.933	PV	11453	223714	4.46%	0.200%
231	15.953	15.933	15.975	VV	9759	137185	2.73%	0.123%
232	16.009	15.975	16.048	VV	8990	232269	4.63%	0.208%
233	16.095	16.048	16.128	VV	21296	559394	11.15%	0.501%
234	16.168	16.128	16.186	VV	176446	2506799	49.95%	2.245%
235	16.194	16.186	16.237	VV	87080	962976	19.19%	0.862%
236	16.247	16.237	16.258	VV	4346	50887	1.01%	0.046%
237	16.294	16.258	16.318	VV	24706	384496	7.66%	0.344%
238	16.337	16.318	16.370	VV	7865	180553	3.60%	0.162%
239	16.385	16.370	16.397	VV	4919	69811	1.39%	0.063%
240	16.415	16.397	16.434	VV	9744	152824	3.05%	0.137%
241	16.485	16.434	16.513	VV	103477	1598292	31.85%	1.431%
242	16.544	16.513	16.593	VV	129793	1776868	35.41%	1.591%
243	16.643	16.593	16.681	VV	33717	653240	13.02%	0.585%
244	16.699	16.681	16.727	VV	11030	230983	4.60%	0.207%
245	16.747	16.727	16.763	VV	7990	145347	2.90%	0.130%
246	16.786	16.763	16.831	VV	10431	305608	6.09%	0.274%

Instrument :

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Parameters									
247	16.848	16.831	16.871	VV	6886	132891	2.65%	0.119%	
248	16.909	16.871	16.985	VV	13268	545510	16.39%	0.736%	
249	17.037	16.985	17.090	VV	17361	609468	8.48%	0.381%	
250	17.121	17.090	17.151	VV	16466	372994	5.99%	0.269%	
251	17.156	17.151	17.174	VV	7518	89087	2.96%	0.133%	
252	17.199	17.174	17.225	VV	10072	246422	1.65%	0.074%	
253	17.241	17.225	17.261	VV	8194	148299	2.59%	0.117%	
254	17.270	17.261	17.286	VV	6275	82870			
255	17.306	17.286	17.327	VV	5730	130155			
256	17.348	17.327	17.398	VV	6429	216597	4.32%	0.194%	
257	17.529	17.398	17.562	VV	14388	822257	16.39%	0.736%	
258	17.604	17.562	17.622	VV	13784	425683	8.48%	0.381%	
259	17.644	17.622	17.659	VV	16000	300426	5.99%	0.269%	
260	17.685	17.659	17.745	VV	21431	747895	14.90%	0.670%	
261	17.767	17.745	17.790	VV	17333	328829	6.55%	0.294%	
262	17.821	17.790	17.873	VV	32428	862126	17.18%	0.772%	
263	17.910	17.873	17.938	VV	115428	1896660	37.80%	1.699%	
264	17.956	17.938	18.014	VV	25242	909893	18.13%	0.815%	
265	18.043	18.014	18.059	VV	29341	531039	10.58%	0.476%	
266	18.078	18.059	18.134	VV	28835	808303	16.11%	0.724%	
267	18.164	18.134	18.214	VV	92692	1595721	31.80%	1.429%	
268	18.246	18.214	18.271	VV	18191	491598	9.80%	0.440%	
269	18.292	18.271	18.323	VV	27119	564526	11.25%	0.506%	
270	18.383	18.323	18.443	VV	20364	994646	19.82%	0.891%	
271	18.479	18.443	18.541	VV	23409	949121	18.91%	0.850%	
272	18.573	18.541	18.586	VV	15967	383061	7.63%	0.343%	
273	18.595	18.586	18.619	VV	15613	280519	5.59%	0.251%	
274	18.641	18.619	18.660	VV	15167	348221	6.94%	0.312%	
275	18.678	18.660	18.692	VV	17880	315707	6.29%	0.283%	
276	18.724	18.692	18.758	VV	35354	1041915	20.76%	0.933%	
277	18.775	18.758	18.817	VV	22912	697714	13.90%	0.625%	
278	18.842	18.817	18.927	VV	24889	1272774	25.36%	1.140%	
279	18.991	18.927	19.045	VV	23651	1368595	27.27%	1.226%	
280	19.061	19.045	19.078	VV	19336	339125	6.76%	0.304%	
281	19.096	19.078	19.118	VV	18688	417200	8.31%	0.374%	
282	19.174	19.118	19.187	VV	23910	834181	16.62%	0.747%	
283	19.209	19.187	19.226	VV	24670	549117	10.94%	0.492%	
284	19.267	19.226	19.289	VV	28547	911814	18.17%	0.817%	
285	19.322	19.289	19.348	VV	50992	1244857	24.81%	1.115%	
286	19.388	19.348	19.420	VV	51065	1525358	30.40%	1.366%	
287	19.445	19.420	19.458	VV	29368	612589	12.21%	0.549%	
288	19.476	19.458	19.487	VV	30397	507104	10.11%	0.454%	
289	19.507	19.487	19.551	VV	32804	1096621	21.85%	0.982%	
290	19.569	19.551	19.577	VV	26032	386471	7.70%	0.346%	
291	19.598	19.577	19.635	VV	28164	857062	17.08%	0.768%	
292	19.697	19.635	19.732	VV	59083	2079896	41.45%	1.863%	
293	19.767	19.732	19.815	VV	34772	1437452	28.64%	1.287%	
294	19.836	19.815	19.873	VV	31379	978805	19.50%	0.877%	
295	19.906	19.873	19.926	VV	28592	860116	17.14%	0.770%	
296	19.964	19.926	20.001	VV	30620	1269850	25.30%	1.137%	
297	20.049	20.001	20.084	VV	28996	1365212	27.20%	1.223%	
298	20.111	20.084	20.132	VV	27572	770094	15.35%	0.690%	
299	20.195	20.132	20.268	VV	35930	2576040	51.33%	2.307%	

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300	20.287	20.268	20.321	VV	36525	1069366	21.31%	0.958%
301	20.342	20.321	20.361	VV	33152	772147	15.86%	0.958%
302	20.375	20.361	20.415	VV	30813	939627	18.86%	0.958%
303	20.439	20.415	20.466	VV	28417	851136	16.86%	0.958%
304	20.494	20.466	20.523	VV	30209	965200	19.86%	0.958%
305	20.536	20.523	20.642	VV	29003	1806172	35.86%	0.958%
306	20.695	20.642	20.731	VV	28923	1386163	27.62%	1.241%
307	20.739	20.731	20.744	VV	24879	193806	3.86%	0.174%
308	20.775	20.744	20.791	VV	26541	713781	14.22%	0.639%
309	20.824	20.791	20.840	VV	24200	695434	13.86%	0.623%
310	20.865	20.840	20.902	VV	25943	856684	17.07%	0.767%
311	20.923	20.902	20.941	VV	21551	494857	9.86%	0.443%
312	20.948	20.941	20.979	VV	21457	430212	8.57%	0.385%
313	21.034	20.979	21.088	VV	32358	1618952	32.26%	1.450%
314	21.100	21.088	21.145	VV	22847	687371	13.70%	0.616%
315	21.152	21.145	21.168	VV	19374	266836	5.32%	0.239%
316	21.184	21.168	21.208	VV	19997	452766	9.02%	0.405%
317	21.234	21.208	21.280	VV	19366	693952	13.83%	0.621%
318	21.317	21.280	21.353	VV	21622	711718	14.18%	0.637%
319	21.386	21.353	21.415	VV	22631	669287	13.34%	0.599%
320	21.442	21.415	21.461	VV	17632	459440	9.16%	0.411%
321	21.485	21.461	21.633	VV	17743	1237320	24.66%	1.108%
322	21.659	21.633	21.682	VV	7361	185782	3.70%	0.166%
323	21.715	21.682	21.783	VV	8213	356186	7.10%	0.319%
324	21.798	21.783	21.839	VV	5340	131589	2.62%	0.118%
325	21.854	21.839	21.931	VV	4793	104381	2.08%	0.093%
326	21.949	21.931	21.961	VV	1597	14477	0.29%	0.013%
327	21.973	21.961	21.979	PV	760	2350	0.05%	0.002%
Sum of corrected areas:					111665623			

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Aliphatic EPH 012425.M Thu Feb 06 04:43:11 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	5	SDG No.:	Q1290
Lab Sample ID:	Q1290-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
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
02/05/25 09:25	02/05/25 19:00	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	4.11	J	1	1.98	4.61	mg/kg	FC068202.D
Total EPH	Total EPH	4.11	J		1.98	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:	02/04/25
Project:	305 Central Ave, West Caldwell	Date Received:	02/04/25
Client Sample ID:	5	SDG No.:	Q1290
Lab Sample ID:	Q1290-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
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
FC068202.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.11	J	1.98	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.5		2.07	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	26.7		40 - 140	53%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.7		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-07	Acq On:	05 Feb 2025 19:00
Client Sample ID:	5	Operator:	YP/AJ
Data file:	FC068202.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	495988	3.581	300	ug/ml
Aliphatic C12-C16	6.378	9.761	790084	5.737	200	ug/ml
Aliphatic C16-C21	9.762	13.114	2536582	18.787	300	ug/ml
Aliphatic C21-C28	13.115	16.766	3696291	29.057	400	ug/ml
Aliphatic C28-C40	16.767	21.570	28950791	279.343	600	ug/ml
Aliphatic EPH	3.110	21.570	36469736	336.506		ug/ml
ortho-Terphenyl (SURR)	11.406	11.406	4020546	25.73		ug/ml
1-chlorooctadecane (SURR)	12.847	12.847	3072078	26.71		ug/ml
Aliphatic C9-C28	3.110	16.766	7518945	57.162	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068202.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 19:00
 Operator : YP/AJ
 Sample : Q1290-07
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 5

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:15:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.406	4020546	25.729 ug/mlm
Spiked Amount	50.000	Recovery	= 51.46%
12) S 1-chlorooctadecane (S...	12.847	3072078	26.713 ug/ml
Spiked Amount	50.000	Recovery	= 53.43%

Target Compounds

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068202.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 19:00
Operator : YP/AJ
Sample : Q1290-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

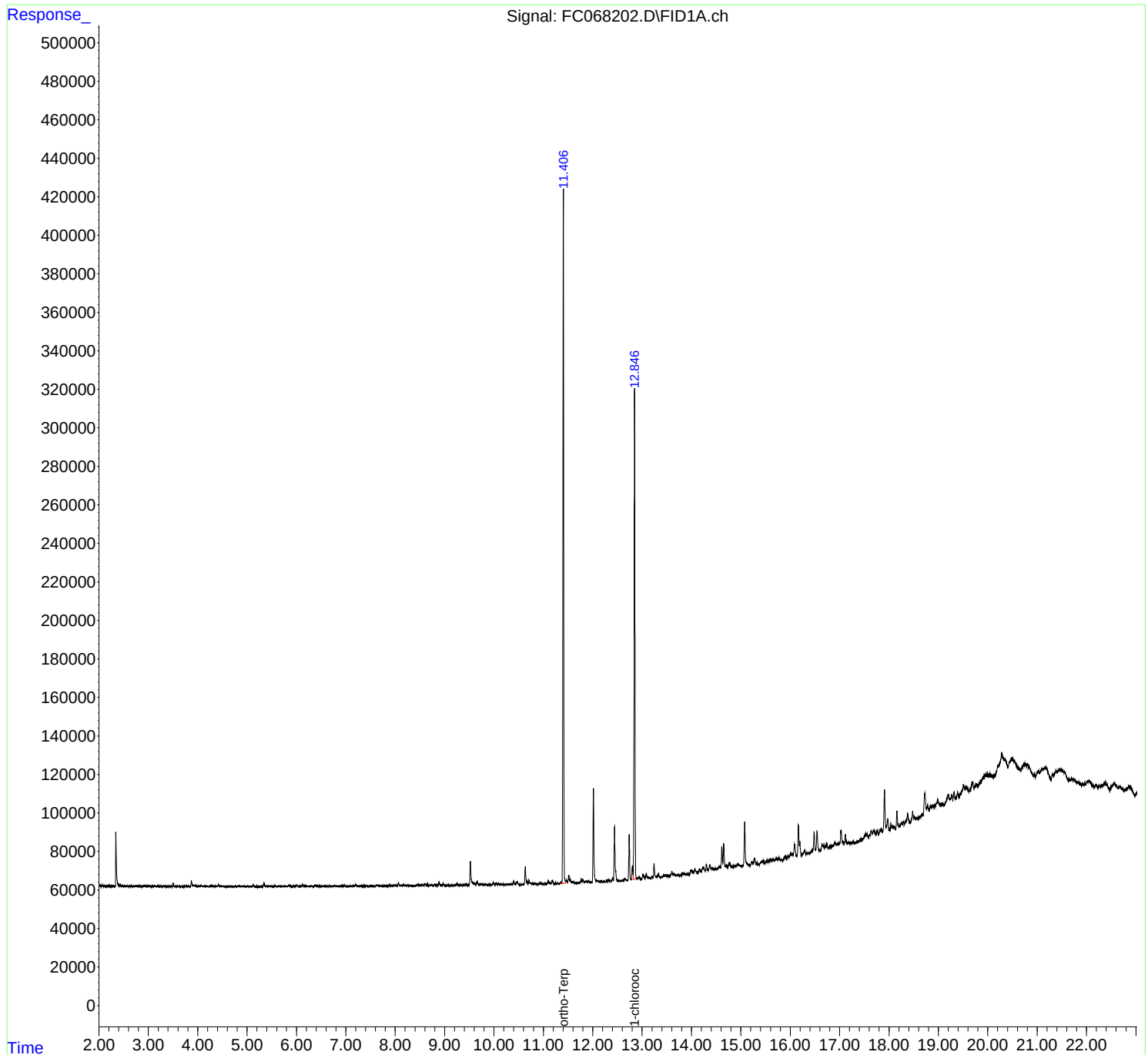
Instrument :
FID_C
ClientSampleId :
5

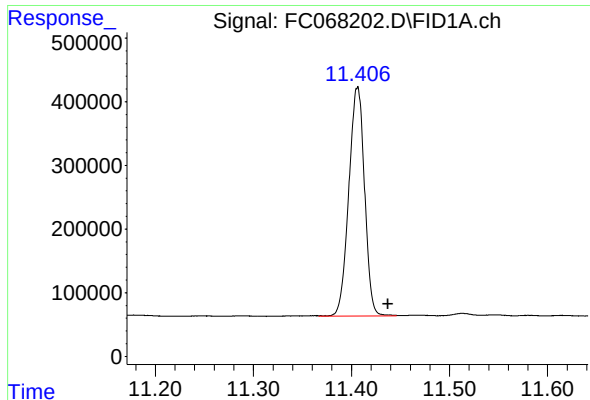
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:15:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





#9 ortho-Terphenyl (SURR)

R.T.: 11.406 min
Delta R.T.: -0.031 min
Response: 4020546
Conc: 25.73 ug/ml

Instrument :

FID_C

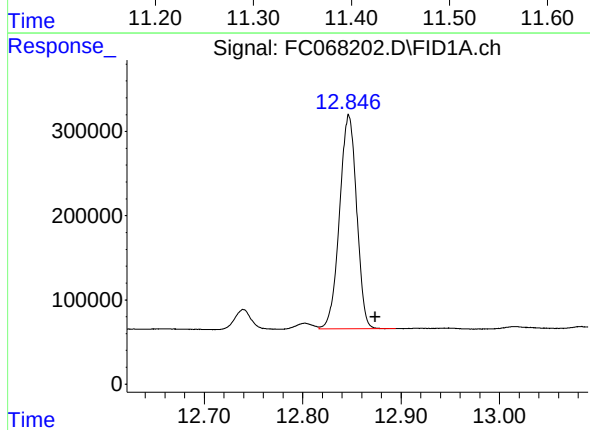
ClientSampleId :

5

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#12 1-chlorooctadecane (SURR)

R.T.: 12.847 min
Delta R.T.: -0.027 min
Response: 3072078
Conc: 26.71 ug/ml

Instrument :

FID_C

ClientSampleId :

5

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

rteres

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068202.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 19:00
Sample : Q1290-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.120	3.038	3.151	BV	217	2221	0.05%	0.005%
2	3.174	3.151	3.198	VV	130	2165	0.05%	0.005%
3	3.216	3.198	3.266	PV	199	3458	0.09%	0.008%
4	3.277	3.266	3.322	VV	51	1819	0.04%	0.004%
5	3.359	3.322	3.395	VV	166	4302	0.11%	0.010%
6	3.404	3.395	3.435	VV	135	1726	0.04%	0.004%
7	3.444	3.435	3.481	VV	125	2526	0.06%	0.006%
8	3.503	3.481	3.568	VV	1902	20656	0.51%	0.047%
9	3.582	3.568	3.618	VV	192	4547	0.11%	0.010%
10	3.631	3.618	3.685	VV	281	6301	0.16%	0.014%
11	3.693	3.685	3.725	VV	127	2063	0.05%	0.005%
12	3.744	3.725	3.755	PV	171	2035	0.05%	0.005%
13	3.799	3.755	3.850	VV	221	7546	0.19%	0.017%
14	3.872	3.850	3.907	VV	3211	43691	1.08%	0.099%
15	3.921	3.907	3.999	VV	897	25867	0.64%	0.059%
16	4.032	3.999	4.047	VV	304	6830	0.17%	0.015%
17	4.069	4.047	4.215	VV	506	23876	0.59%	0.054%
18	4.243	4.215	4.251	VV	198	3768	0.09%	0.009%
19	4.269	4.251	4.323	VV	443	14388	0.36%	0.033%
20	4.334	4.323	4.358	VV	385	6411	0.16%	0.015%
21	4.369	4.358	4.396	VV	352	5840	0.14%	0.013%
22	4.418	4.396	4.511	VV	1120	29242	0.72%	0.066%
23	4.524	4.511	4.565	VV	243	5746	0.14%	0.013%
24	4.578	4.565	4.601	VV	221	3262	0.08%	0.007%
25	4.615	4.601	4.652	VV	225	5302	0.13%	0.012%
26	4.660	4.652	4.682	VV	233	2917	0.07%	0.007%
27	4.689	4.682	4.750	VV	164	5383	0.13%	0.012%
28	4.759	4.750	4.811	VV	213	4648	0.11%	0.011%
29	4.845	4.811	4.887	VV	310	9941	0.25%	0.022%
30	4.911	4.887	4.965	VV	310	9583	0.24%	0.022%
31	5.009	4.965	5.041	VV	252	7119	0.18%	0.016%
32	5.056	5.041	5.097	PV	136	3267	0.08%	0.007%
33	5.122	5.097	5.176	VV	1347	20993	0.52%	0.047%
34	5.197	5.176	5.217	VV	187	3429	0.08%	0.008%
35	5.238	5.217	5.288	VV	175	4022	0.10%	0.009%
36	5.340	5.288	5.465	VV	1832	47650	1.18%	0.108%

					retention			
37	5.481	5.465	5.520	VV	283	5574	0.14%	0.013%
38	5.549	5.520	5.561	VV	275	4566		
39	5.574	5.561	5.605	VV	274	4910		
40	5.628	5.605	5.651	VV	306	5849		
41	5.668	5.651	5.699	VV	310	7009		
42	5.747	5.699	5.791	VV	330	11756		
43	5.807	5.791	5.818	VV	302	3873	0.10%	0.009%
44	5.839	5.818	5.962	VV	692	28046	0.69%	0.063%
45	6.002	5.962	6.061	VV	867	17811	0.44%	0.040%
46	6.125	6.061	6.156	VV	908	18491	0.46%	0.042%
47	6.170	6.156	6.249	VV	354	12239	0.30%	0.028%
48	6.279	6.249	6.333	VV	378	7989	0.20%	0.018%
49	6.365	6.333	6.394	VV	593	13335	0.33%	0.030%
50	6.407	6.394	6.416	VV	418	4890	0.12%	0.011%
51	6.425	6.416	6.492	VV	363	10838	0.27%	0.025%
52	6.499	6.492	6.522	VV	124	1834	0.05%	0.004%
53	6.549	6.522	6.578	VV	219	3619	0.09%	0.008%
54	6.596	6.578	6.638	VV	172	3805	0.09%	0.009%
55	6.667	6.638	6.692	VV	218	3969	0.10%	0.009%
56	6.708	6.692	6.727	VV	143	1642	0.04%	0.004%
57	6.777	6.727	6.815	VV	395	12523	0.31%	0.028%
58	6.829	6.815	6.863	VV	269	5003	0.12%	0.011%
59	6.894	6.863	6.915	VV	377	7225	0.18%	0.016%
60	6.936	6.915	6.955	VV	293	4955	0.12%	0.011%
61	6.976	6.955	7.011	VV	555	8402	0.21%	0.019%
62	7.028	7.011	7.052	VV	274	3293	0.08%	0.007%
63	7.071	7.052	7.117	VV	261	5780	0.14%	0.013%
64	7.139	7.117	7.157	VV	279	4929	0.12%	0.011%
65	7.199	7.157	7.230	VV	888	14999	0.37%	0.034%
66	7.241	7.230	7.248	VV	175	1587	0.04%	0.004%
67	7.258	7.248	7.278	VV	236	3024	0.07%	0.007%
68	7.285	7.278	7.302	VV	174	1773	0.04%	0.004%
69	7.368	7.302	7.406	VV	380	9937	0.25%	0.022%
70	7.419	7.406	7.450	VV	164	2781	0.07%	0.006%
71	7.477	7.450	7.501	VV	319	4673	0.12%	0.011%
72	7.531	7.501	7.548	VV	200	3519	0.09%	0.008%
73	7.560	7.548	7.588	VV	171	2235	0.06%	0.005%
74	7.621	7.588	7.634	PV	509	7701	0.19%	0.017%
75	7.646	7.634	7.698	VV	478	10615	0.26%	0.024%
76	7.713	7.698	7.738	VV	261	4401	0.11%	0.010%
77	7.766	7.738	7.780	VV	495	7645	0.19%	0.017%
78	7.798	7.780	7.808	VV	355	4536	0.11%	0.010%
79	7.818	7.808	7.841	VV	321	4685	0.12%	0.011%
80	7.888	7.841	7.906	VV	720	10626	0.26%	0.024%
81	7.923	7.906	7.945	VV	399	5887	0.15%	0.013%
82	7.983	7.945	8.025	VV	502	15158	0.37%	0.034%
83	8.066	8.025	8.101	VV	1852	29449	0.73%	0.067%
84	8.166	8.101	8.198	VV	991	23088	0.57%	0.052%
85	8.213	8.198	8.231	VV	374	6164	0.15%	0.014%
86	8.249	8.231	8.325	VV	499	12885	0.32%	0.029%
87	8.345	8.325	8.371	VV	190	3052	0.08%	0.007%
88	8.425	8.371	8.441	VV	432	8754	0.22%	0.020%
89	8.460	8.441	8.481	VV	898	13262	0.33%	0.030%

Instrument :

FID_C

ClientSampleId :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
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90	8.495	8.481	8.500	VV	381	4282	0.11%	0.010%
91	8.511	8.500	8.524	VV	511	5787		
92	8.539	8.524	8.580	VV	532	14203		
93	8.602	8.580	8.628	VV	1173	19259		
94	8.650	8.628	8.686	VV	1107	16593		
95	8.740	8.686	8.765	VV	482	14373		
96	8.802	8.765	8.844	VV	765	16143	0.40%	0.037%
97	8.886	8.844	8.949	VV	1971	38260	0.94%	0.087%
98	8.971	8.949	9.002	VV	847	12836	0.32%	0.029%
99	9.024	9.002	9.048	VV	308	4068	0.10%	0.009%
100	9.078	9.048	9.098	VV	267	5486	0.14%	0.012%
101	9.111	9.098	9.142	VV	237	3912	0.10%	0.009%
102	9.162	9.142	9.198	VV	281	5277	0.13%	0.012%
103	9.258	9.198	9.288	PV	825	24925	0.62%	0.056%
104	9.321	9.288	9.335	VV	476	8943	0.22%	0.020%
105	9.340	9.335	9.367	VV	478	5310	0.13%	0.012%
106	9.388	9.367	9.415	VV	427	7441	0.18%	0.017%
107	9.443	9.415	9.468	VV	385	7139	0.18%	0.016%
108	9.524	9.468	9.637	VV	12378	226665	5.59%	0.513%
109	9.662	9.637	9.718	VV	2232	45074	1.11%	0.102%
110	9.732	9.718	9.751	VV	521	8965	0.22%	0.020%
111	9.762	9.751	9.795	VV	496	7751	0.19%	0.018%
112	9.834	9.795	9.872	VV	618	15780	0.39%	0.036%
113	9.900	9.872	9.921	VV	461	7163	0.18%	0.016%
114	9.935	9.921	9.956	VV	188	2804	0.07%	0.006%
115	9.989	9.956	10.019	VV	1393	23844	0.59%	0.054%
116	10.047	10.019	10.071	VV	1132	19978	0.49%	0.045%
117	10.098	10.071	10.125	VV	625	14499	0.36%	0.033%
118	10.136	10.125	10.175	VV	480	9392	0.23%	0.021%
119	10.189	10.175	10.217	VV	330	5008	0.12%	0.011%
120	10.295	10.217	10.341	VV	551	21039	0.52%	0.048%
121	10.352	10.341	10.367	VV	427	5724	0.14%	0.013%
122	10.399	10.367	10.422	VV	2106	32524	0.80%	0.074%
123	10.470	10.422	10.525	VV	1709	42193	1.04%	0.095%
124	10.533	10.525	10.561	VV	271	3349	0.08%	0.008%
125	10.635	10.561	10.664	PV	9397	130055	3.21%	0.294%
126	10.676	10.664	10.695	VV	1690	23610	0.58%	0.053%
127	10.712	10.695	10.771	VV	1933	44190	1.09%	0.100%
128	10.784	10.771	10.802	VV	574	8757	0.22%	0.020%
129	10.817	10.802	10.841	VV	571	7674	0.19%	0.017%
130	10.848	10.841	10.883	VV	364	5201	0.13%	0.012%
131	10.899	10.883	10.918	VV	406	4701	0.12%	0.011%
132	10.936	10.918	10.975	VV	949	17171	0.42%	0.039%
133	10.986	10.975	11.008	VV	256	3742	0.09%	0.008%
134	11.028	11.008	11.051	VV	430	8300	0.20%	0.019%
135	11.068	11.051	11.076	VV	438	5076	0.13%	0.011%
136	11.099	11.076	11.145	VV	2127	37818	0.93%	0.086%
137	11.179	11.145	11.218	VV	1982	41329	1.02%	0.093%
138	11.247	11.218	11.271	VV	629	11335	0.28%	0.026%
139	11.289	11.271	11.311	VV	710	8641	0.21%	0.020%
140	11.406	11.311	11.453	PV	359691	4052332	100.00%	9.167%
141	11.468	11.453	11.489	VV	1654	26379	0.65%	0.060%

Instrument :

FID_C

ClientSampleId :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Parameters									
142	11.513	11.489	11.533	VV	4362	64101	1.58%	0.145%	
143	11.546	11.533	11.567	VV	2142	29483			
144	11.581	11.567	11.598	VV	1168	14942			
145	11.615	11.598	11.657	VV	1077	16373			
146	11.699	11.657	11.718	VV	321	6146			
147	11.766	11.718	11.781	VV	1984	30526			
148	11.798	11.781	11.835	VV	1924	35228	0.87%	0.080%	
149	11.866	11.835	11.890	VV	1005	21432	0.53%	0.048%	
150	11.911	11.890	11.947	VV	976	23057	0.57%	0.052%	
151	11.961	11.947	11.985	VV	390	6219	0.15%	0.014%	
152	12.016	11.985	12.092	VV	48876	611173	15.08%	1.383%	
153	12.105	12.092	12.127	VV	805	13203	0.33%	0.030%	
154	12.149	12.127	12.161	VV	543	9379	0.23%	0.021%	
155	12.176	12.161	12.201	VV	682	10604	0.26%	0.024%	
156	12.223	12.201	12.255	VV	573	10467	0.26%	0.024%	
157	12.283	12.255	12.301	PV	1086	14940	0.37%	0.034%	
158	12.329	12.301	12.351	VV	1317	22407	0.55%	0.051%	
159	12.370	12.351	12.380	VV	476	7139	0.18%	0.016%	
160	12.403	12.380	12.418	VV	2118	28028	0.69%	0.063%	
161	12.443	12.418	12.501	VV	28337	398455	9.83%	0.901%	
162	12.511	12.501	12.534	VV	523	6628	0.16%	0.015%	
163	12.547	12.534	12.562	VV	294	2696	0.07%	0.006%	
164	12.581	12.562	12.598	PV	379	4240	0.10%	0.010%	
165	12.627	12.598	12.641	VV	812	13283	0.33%	0.030%	
166	12.659	12.641	12.711	VV	1042	24156	0.60%	0.055%	
167	12.740	12.711	12.775	PV	23930	278430	6.87%	0.630%	
168	12.802	12.775	12.816	VV	7335	92795	2.29%	0.210%	
169	12.847	12.816	12.901	VV	253892	3102533	76.56%	7.018%	
170	12.918	12.901	12.930	VV	1102	16619	0.41%	0.038%	
171	12.945	12.930	12.975	VV	1139	18515	0.46%	0.042%	
172	13.016	12.975	13.059	PV	2820	58209	1.44%	0.132%	
173	13.083	13.059	13.128	VV	2607	52682	1.30%	0.119%	
174	13.140	13.128	13.165	VV	912	12460	0.31%	0.028%	
175	13.203	13.165	13.225	VV	1252	19846	0.49%	0.045%	
176	13.244	13.225	13.288	VV	7692	106037	2.62%	0.240%	
177	13.330	13.288	13.378	VV	2477	49090	1.21%	0.111%	
178	13.399	13.378	13.410	VV	361	3438	0.08%	0.008%	
179	13.440	13.410	13.458	VV	1371	19670	0.49%	0.044%	
180	13.476	13.458	13.495	VV	1488	19311	0.48%	0.044%	
181	13.516	13.495	13.551	VV	882	16487	0.41%	0.037%	
182	13.601	13.551	13.625	VV	2438	50270	1.24%	0.114%	
183	13.648	13.625	13.678	VV	1373	26670	0.66%	0.060%	
184	13.688	13.678	13.695	VV	374	3749	0.09%	0.008%	
185	13.732	13.695	13.754	VV	417	11044	0.27%	0.025%	
186	13.824	13.754	13.881	PV	1125	32525	0.80%	0.074%	
187	13.893	13.881	13.928	VV	523	6678	0.16%	0.015%	
188	13.986	13.928	14.005	PV	2157	36751	0.91%	0.083%	
189	14.024	14.005	14.046	VV	1449	29165	0.72%	0.066%	
190	14.068	14.046	14.110	VV	2591	50796	1.25%	0.115%	
191	14.164	14.110	14.191	VV	2090	43635	1.08%	0.099%	
192	14.236	14.191	14.274	VV	2857	84811	2.09%	0.192%	
193	14.301	14.274	14.335	VV	3964	68599	1.69%	0.155%	
194	14.371	14.335	14.401	VV	3491	80248	1.98%	0.182%	

Instrument :

FID_C

ClientSampleId :

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Manual IntegrationsAPPROVED

 Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

195	14.424	14.401	14.464	VV	1524	46942	1.16%	0.106%
196	14.485	14.464	14.500	VV	1307	21286		
197	14.515	14.500	14.523	VV	875	10617		
198	14.567	14.523	14.584	VV	2005	51192		
199	14.614	14.584	14.633	VV	11733	171730		
200	14.652	14.633	14.685	VV	13440	201920		
201	14.701	14.685	14.730	VV	2306	42880	1.06%	0.097%
202	14.772	14.730	14.832	VV	3224	100667	2.48%	0.228%
203	14.923	14.832	14.938	VV	1816	66447	1.64%	0.150%
204	14.950	14.938	15.016	VV	1764	45972	1.13%	0.104%
205	15.075	15.016	15.178	VV	23420	406473	10.03%	0.920%
206	15.224	15.178	15.250	VV	1902	51526	1.27%	0.117%
207	15.278	15.250	15.309	VV	3526	73008	1.80%	0.165%
208	15.322	15.309	15.378	VV	1123	16329	0.40%	0.037%
209	15.426	15.378	15.433	PV	1499	31386	0.77%	0.071%
210	15.447	15.433	15.495	VV	1690	38330	0.95%	0.087%
211	15.530	15.495	15.563	VV	1348	39075	0.96%	0.088%
212	15.593	15.563	15.631	VV	1732	48014	1.18%	0.109%
213	15.650	15.631	15.673	VV	1327	25374	0.63%	0.057%
214	15.718	15.673	15.741	VV	2207	48917	1.21%	0.111%
215	15.768	15.741	15.806	VV	1574	40892	1.01%	0.093%
216	15.813	15.806	15.847	VV	476	6538	0.16%	0.015%
217	15.897	15.847	15.931	PV	1778	42419	1.05%	0.096%
218	15.957	15.931	15.971	VV	1310	22176	0.55%	0.050%
219	16.008	15.971	16.034	VV	2985	67939	1.68%	0.154%
220	16.041	16.034	16.051	VV	1903	17964	0.44%	0.041%
221	16.087	16.051	16.121	VV	6988	143386	3.54%	0.324%
222	16.164	16.121	16.238	VV	16300	349346	8.62%	0.790%
223	16.294	16.238	16.317	VV	2343	64237	1.59%	0.145%
224	16.332	16.317	16.344	VV	824	9915	0.24%	0.022%
225	16.359	16.344	16.376	VV	766	12711	0.31%	0.029%
226	16.390	16.376	16.400	VV	680	8261	0.20%	0.019%
227	16.483	16.400	16.512	VV	10839	206209	5.09%	0.466%
228	16.542	16.512	16.602	VV	10756	193532	4.78%	0.438%
229	16.642	16.602	16.655	VV	3741	58733	1.45%	0.133%
230	16.669	16.655	16.688	VV	3105	46594	1.15%	0.105%
231	16.708	16.688	16.724	VV	2686	43636	1.08%	0.099%
232	16.742	16.724	16.765	VV	3737	52438	1.29%	0.119%
233	16.825	16.765	16.865	VV	1618	77382	1.91%	0.175%
234	16.911	16.865	16.932	VV	2776	87199	2.15%	0.197%
235	16.972	16.932	16.985	VV	2057	60379	1.49%	0.137%
236	17.028	16.985	17.086	VV	8431	224924	5.55%	0.509%
237	17.115	17.086	17.161	VV	5830	117684	2.90%	0.266%
238	17.172	17.161	17.188	VV	1342	18114	0.45%	0.041%
239	17.196	17.188	17.221	VV	1294	20857	0.51%	0.047%
240	17.231	17.221	17.247	VV	1062	13441	0.33%	0.030%
241	17.270	17.247	17.289	VV	1196	18905	0.47%	0.043%
242	17.507	17.289	17.518	PV	3228	153953	3.80%	0.348%
243	17.541	17.518	17.590	VV	3726	116123	2.87%	0.263%
244	17.639	17.590	17.658	VV	4496	126403	3.12%	0.286%
245	17.681	17.658	17.745	VV	4228	172479	4.26%	0.390%
246	17.767	17.745	17.788	VV	4186	71726	1.77%	0.162%

Instrument :

FID_C

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Manual IntegrationsAPPROVED

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					rters			
247	17.823	17.788	17.835	VV	3863	81592	2.01%	0.185%
248	17.850	17.835	17.868	VV	3788	65020		
249	17.908	17.868	17.945	VV	23836	451839	11.11%	0.535%
250	17.974	17.945	18.010	VV	8404	206264	5.83%	0.075%
251	18.040	18.010	18.068	VV	5139	125063	3.71%	0.127%
252	18.083	18.068	18.101	VV	4168	70958	1.39%	0.127%
253	18.114	18.101	18.134	VV	3549	56312	1.39%	0.127%
254	18.159	18.134	18.208	VV	11351	236381	5.83%	0.535%
255	18.219	18.208	18.228	VV	3708	39229	0.97%	0.089%
256	18.252	18.228	18.265	VV	4343	90621	2.24%	0.205%
257	18.291	18.265	18.311	VV	5113	117870	2.91%	0.267%
258	18.380	18.311	18.421	VV	8340	356153	8.79%	0.806%
259	18.428	18.421	18.436	VV	3908	33328	0.82%	0.075%
260	18.477	18.436	18.505	VV	9158	250294	6.18%	0.566%
261	18.511	18.505	18.552	VV	6304	150480	3.71%	0.340%
262	18.561	18.552	18.571	VV	5079	57427	1.42%	0.130%
263	18.595	18.571	18.604	VV	5401	96643	2.38%	0.219%
264	18.651	18.604	18.660	VV	5796	176125	4.35%	0.398%
265	18.675	18.660	18.691	VV	6757	113258	2.79%	0.256%
266	18.727	18.691	18.761	VV	16835	500856	12.36%	1.133%
267	18.778	18.761	18.811	VV	9936	267467	6.60%	0.605%
268	18.885	18.811	18.918	VV	10070	569119	14.04%	1.287%
269	18.926	18.918	18.938	VV	9739	112785	2.78%	0.255%
270	18.989	18.938	19.061	VV	11783	720289	17.77%	1.629%
271	19.070	19.061	19.080	VV	9135	100733	2.49%	0.228%
272	19.093	19.080	19.117	VV	9564	189041	4.66%	0.428%
273	19.169	19.117	19.181	VV	11965	372664	9.20%	0.843%
274	19.204	19.181	19.246	VV	12939	454337	11.21%	1.028%
275	19.278	19.246	19.291	VV	12498	306034	7.55%	0.692%
276	19.316	19.291	19.360	VV	13250	464970	11.47%	1.052%
277	19.388	19.360	19.411	VV	12503	349571	8.63%	0.791%
278	19.449	19.411	19.461	VV	12320	344819	8.51%	0.780%
279	19.507	19.461	19.537	VV	15928	645366	15.93%	1.460%
280	19.560	19.537	19.621	VV	15254	683313	16.86%	1.546%
281	19.637	19.621	19.653	VV	13434	241282	5.95%	0.546%
282	19.691	19.653	19.724	VV	16188	615618	15.19%	1.393%
283	19.758	19.724	19.800	VV	14743	639704	15.79%	1.447%
284	19.849	19.800	19.862	VV	16038	546087	13.48%	1.235%
285	19.907	19.862	19.919	VV	17822	563286	13.90%	1.274%
286	19.960	19.919	19.971	VV	18748	565866	13.96%	1.280%
287	19.987	19.971	20.025	VV	19599	575388	14.20%	1.302%
288	20.036	20.025	20.121	VV	18722	994072	24.53%	2.249%
289	20.284	20.121	20.345	VV	27818	2921988	72.11%	6.610%
290	20.356	20.345	20.399	VV	24230	723588	17.86%	1.637%
291	20.492	20.399	20.530	VV	23492	1735874	42.84%	3.927%
292	20.541	20.530	20.571	VV	22354	516003	12.73%	1.167%
293	20.580	20.571	20.608	VV	19696	410769	10.14%	0.929%
294	20.635	20.608	20.661	VV	17790	545896	13.47%	1.235%
295	20.745	20.661	20.768	VV	19235	1145255	28.26%	2.591%
296	20.780	20.768	20.791	VV	18859	257491	6.35%	0.582%
297	20.806	20.791	20.916	VV	18679	1163759	28.72%	2.633%
298	20.928	20.916	20.938	VV	12252	155261	3.83%	0.351%
299	21.030	20.938	21.046	VV	13708	793868	19.59%	1.796%

Instrument :

FID_C

ClientSampleId :

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Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 02/06/2025

					rters			
300	21.055	21.046	21.061	VV	12651	108426	2.68%	0.245%
301	21.101	21.061	21.121	VV	14191	487055	12.88%	0.245%
302	21.152	21.121	21.161	VV	14582	337153	8.54%	0.245%
303	21.176	21.161	21.188	VV	14544	225846	5.84%	0.245%
304	21.197	21.188	21.276	VV	14106	559373	13.64%	0.245%
305	21.308	21.276	21.342	VV	9755	349744	8.82%	0.245%
306	21.379	21.342	21.411	VV	11932	436710	10.78%	0.988%
307	21.443	21.411	21.455	VV	12020	286010	7.06%	0.647%
308	21.479	21.455	21.621	VV	11369	913629	22.55%	2.067%
309	21.632	21.621	21.644	VV	5134	65595	1.62%	0.148%
310	21.712	21.644	21.741	VV	4877	268846	6.63%	0.608%
311	21.755	21.741	21.815	VV	4309	143349	3.54%	0.324%
312	21.830	21.815	21.859	VV	2677	52146	1.29%	0.118%
313	21.871	21.859	21.915	VV	1505	28284	0.70%	0.064%
314	21.925	21.915	21.946	VV	885	11054	0.27%	0.025%
315	21.962	21.946	21.988	VV	838	11667	0.29%	0.026%

Sum of corrected areas: 44205544

Aliphatic EPH 012425.M Thu Feb 06 04:43:30 2025

Instrument :
FID_C
ClientSampleId :
5

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FC012425AL

AreaCount

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

AVG Response Factor

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

Concentration

Parameter Range	FC068103.D	FC068104.D	FC068105.D	FC068106.D	FC068107.D	
Aliphatic C9-C12	300.000	150.000	60.000	30.000	15.000	
Aliphatic C12-C16	200.000	100.000	40.000	20.000	10.000	
Aliphatic C16-C21	300.000	150.000	60.000	30.000	15.000	
Aliphatic C21-C28	400.000	200.000	80.000	40.000	20.000	
Aliphatic C28-C40	600.000	300.000	120.000	60.000	30.000	
Aliphatic EPH	1800.000	900.000	360.000	180.000	90.000	

Response Factor

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

Initial Calibration Report for SequenceID : FC012425AL

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

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

Instrument :
 FID_C
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

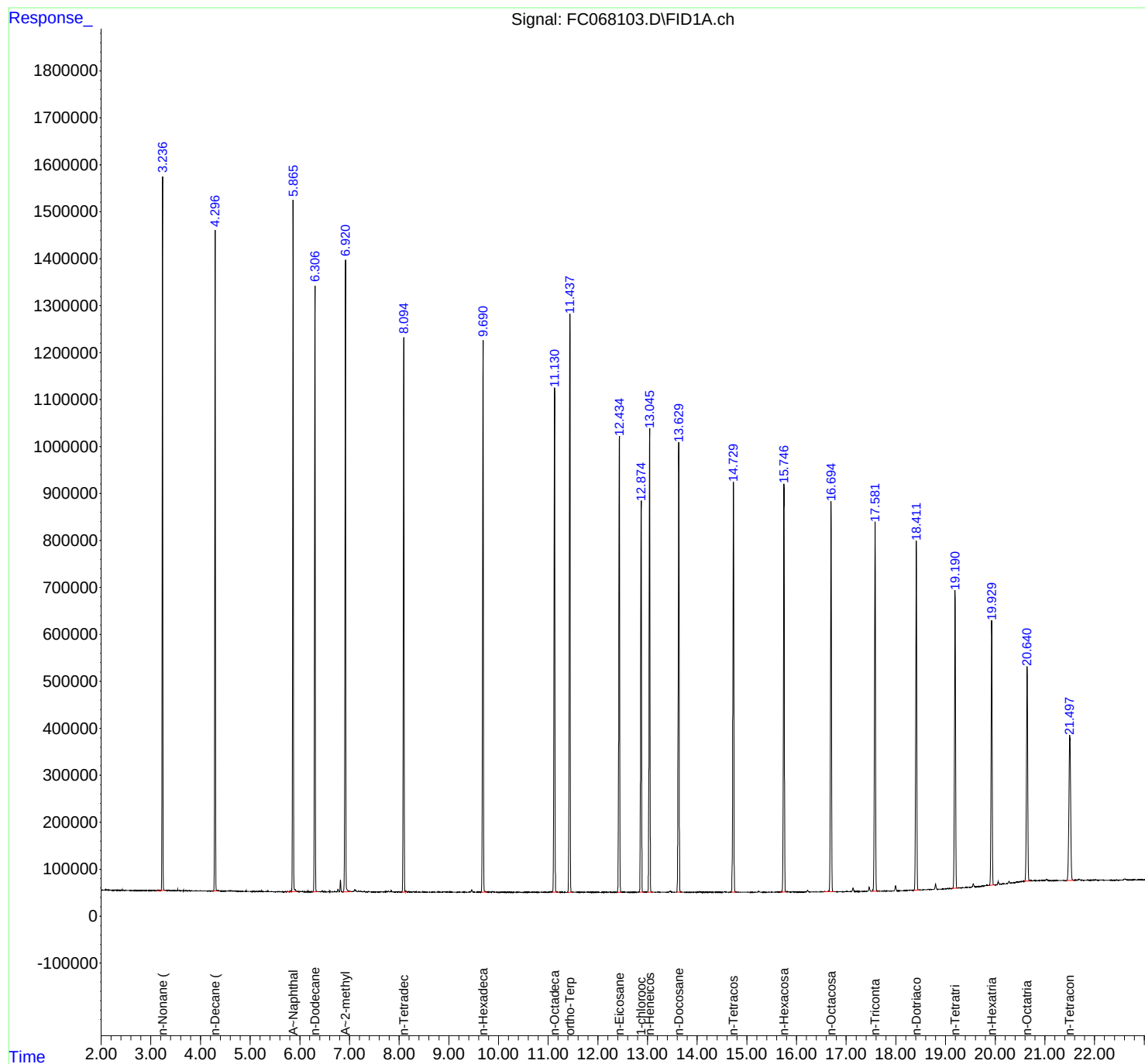
(m)=manual int.

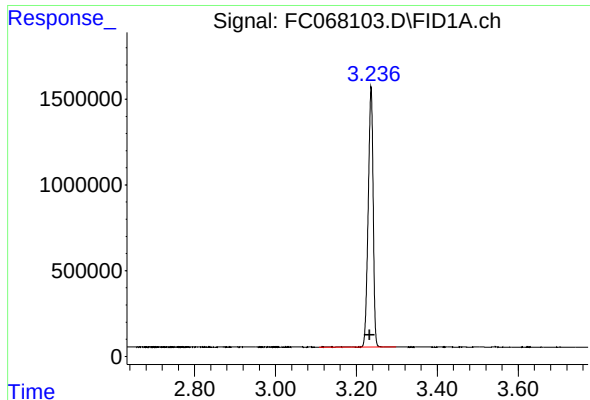
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068103.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 08:47
Operator : YP/AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1

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

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

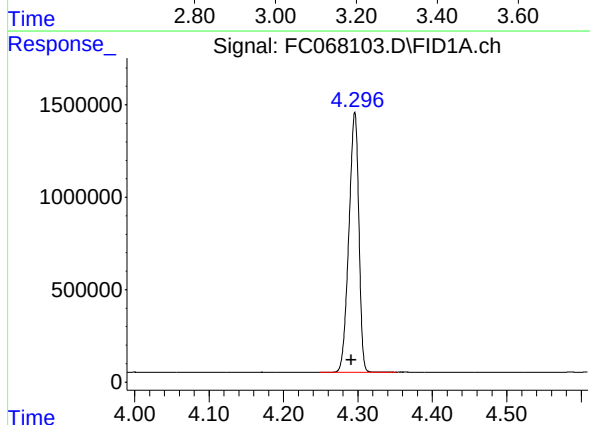




#1 n-Nonane (C9)

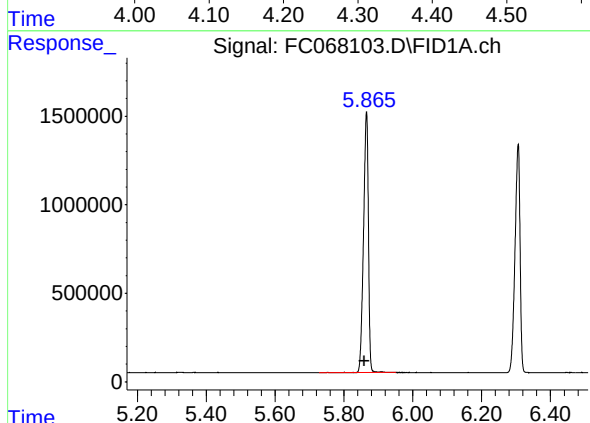
R.T.: 3.236 min
Delta R.T.: 0.003 min
Response: 12896666
Conc: 91.78 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



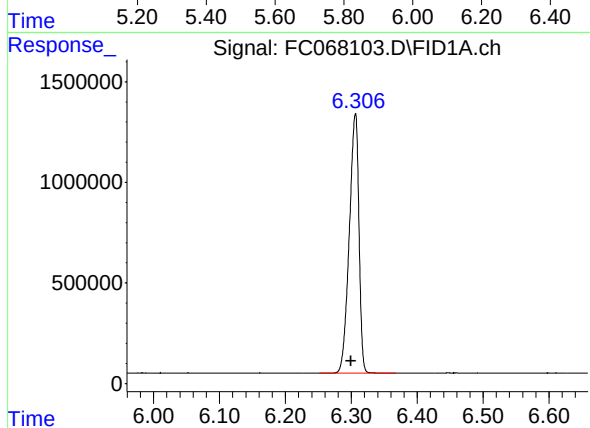
#2 n-Decane (C10)

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



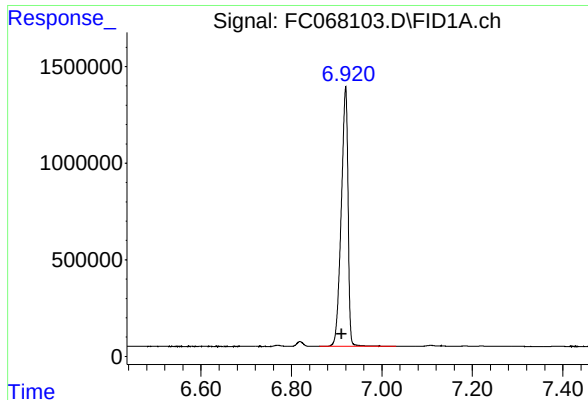
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

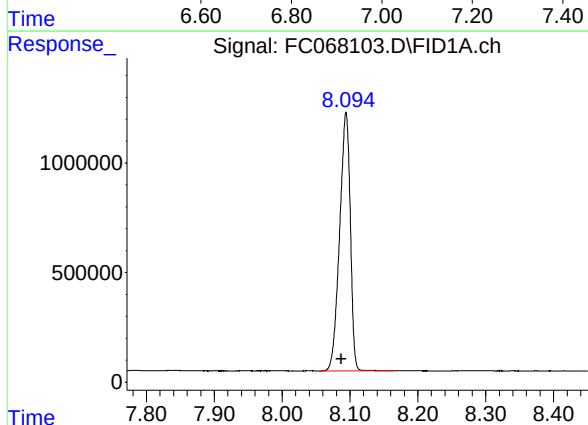
R.T.: 6.306 min
Delta R.T.: 0.006 min
Response: 13141173
Conc: 90.99 ug/ml



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

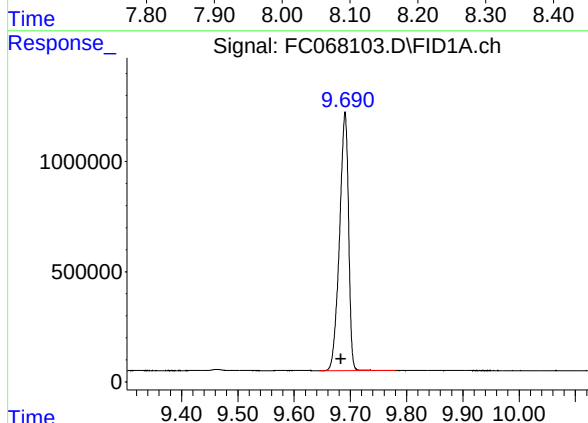
R.T.: 6.919 min
Delta R.T.: 0.008 min
Response: 14003977
Conc: 93.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



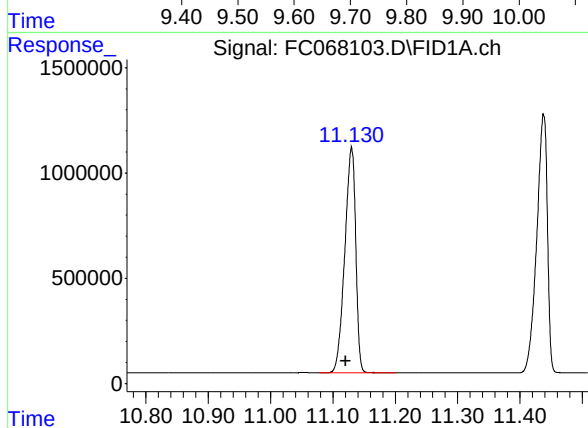
#6 n-Tetradecane (C14)

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



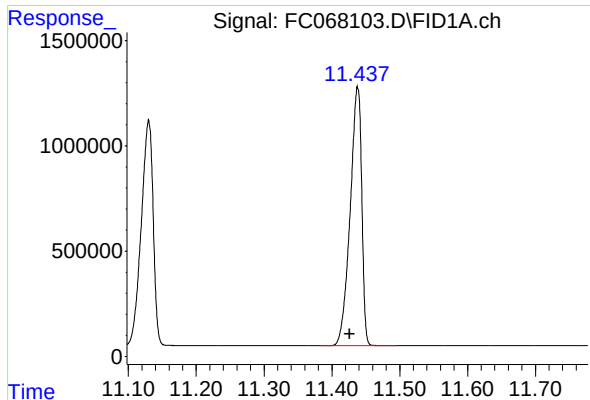
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

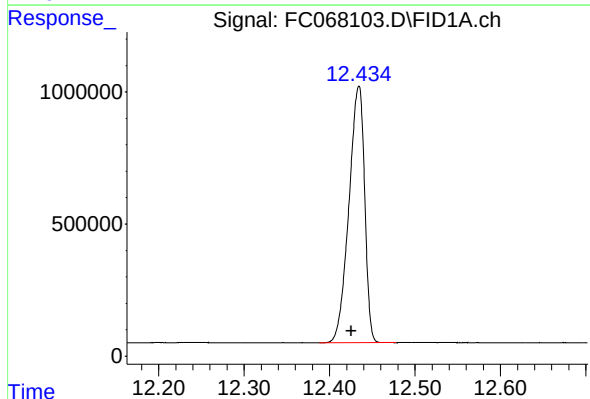
R.T.: 11.130 min
Delta R.T.: 0.009 min
Response: 13072737
Conc: 89.98 ug/ml



#9 ortho-Terphenyl (SURR)

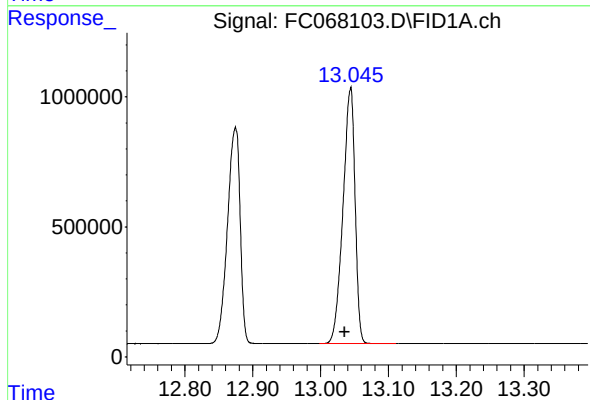
R.T.: 11.437 min
Delta R.T.: 0.011 min
Response: 14573832
Conc: 90.20 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



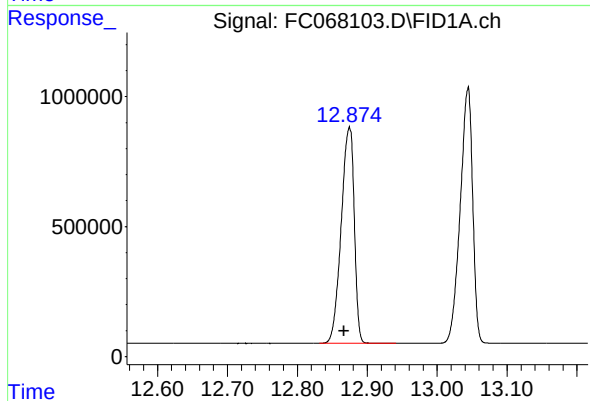
#10 n-Eicosane (C20)

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



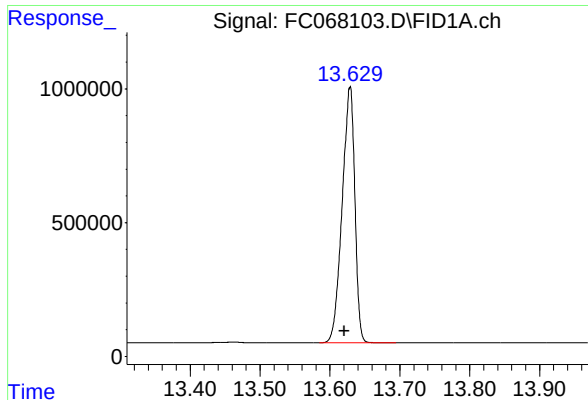
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

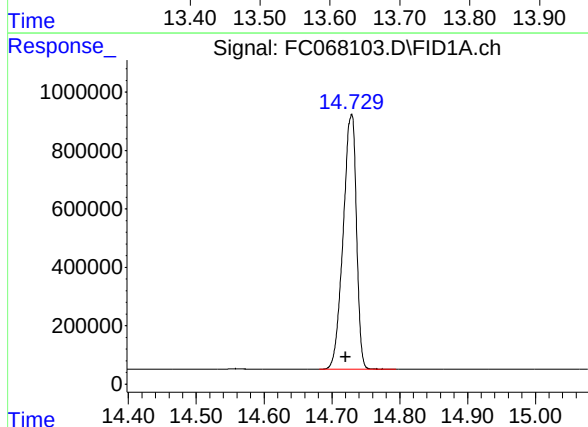
R.T.: 12.874 min
Delta R.T.: 0.007 min
Response: 10772279
Conc: 90.16 ug/ml



#13 n-Docosane (C22)

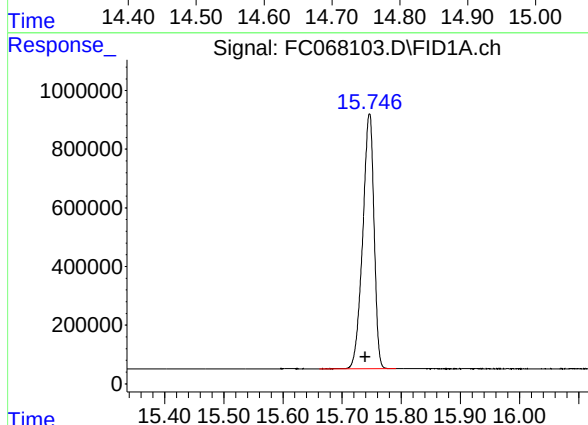
R.T.: 13.628 min
Delta R.T.: 0.008 min
Response: 12054623
Conc: 90.26 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



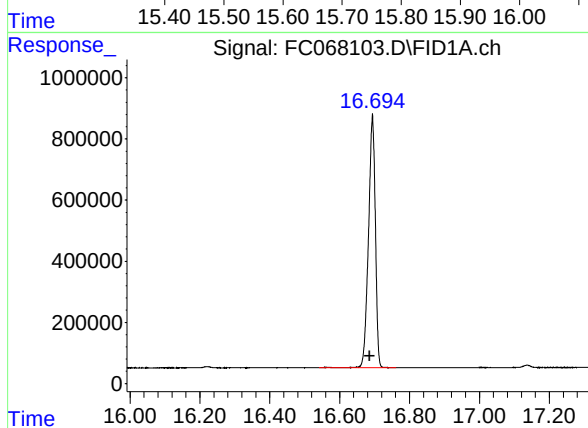
#14 n-Tetracosane (C24)

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



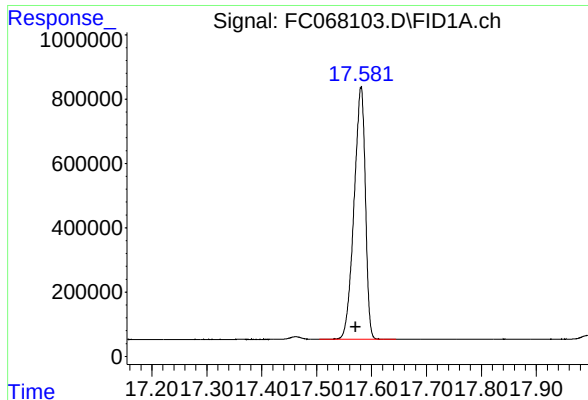
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

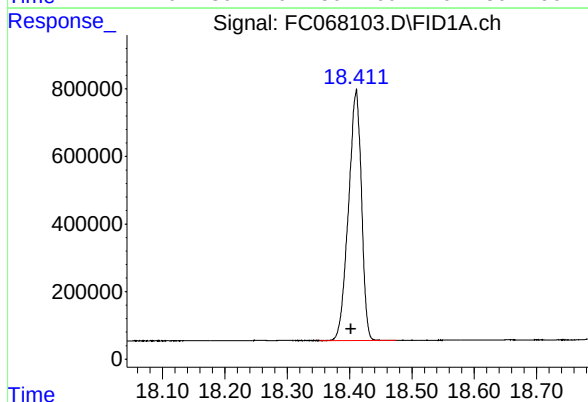
R.T.: 16.694 min
Delta R.T.: 0.008 min
Response: 11250832
Conc: 87.91 ug/ml



#17 n-Tricontane (C30)

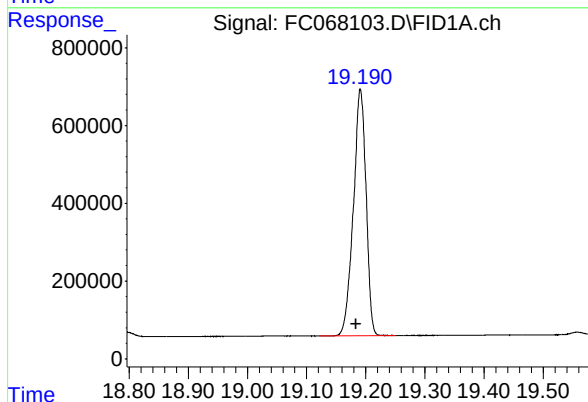
R.T.: 17.581 min
Delta R.T.: 0.009 min
Response: 11253721
Conc: 85.52 ug/ml

Instrument :
FID_C
ClientSampleId :
100 PPM ALIPHATIC HC STD1



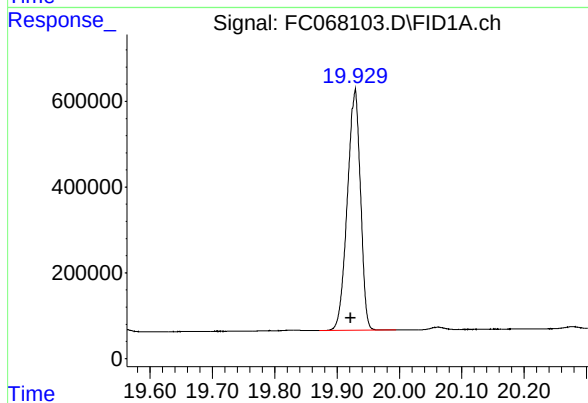
#18 n-Dotriacontane (C32)

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



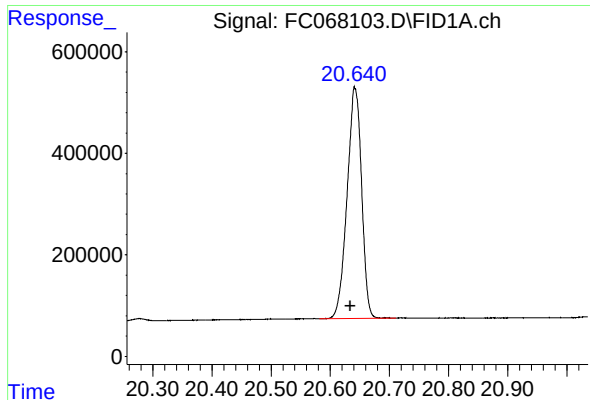
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

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



#21 n-Octatriacontane (C38)

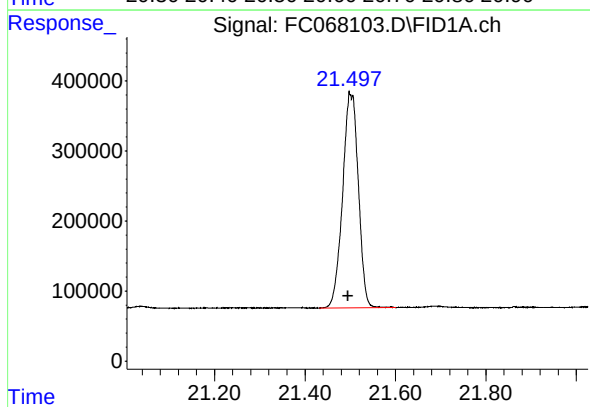
R.T.: 20.642 min
Delta R.T.: 0.008 min
Response: 7745753
Conc: 88.22 ug/ml

Instrument :

FID_C

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.236	3.108	3.298	BB	1476777	12896666	88.49%	4.995%
2	4.295	4.248	4.351	BB	1389988	13082082	89.76%	5.067%
3	5.865	5.728	5.951	BB	1463650	14453299	99.17%	5.598%
4	6.306	6.251	6.368	BB	1273767	13141173	90.17%	5.090%
5	6.919	6.861	7.031	BB	1308343	14003977	96.09%	5.424%
6	8.094	8.054	8.168	BB	1186157	12889444	88.44%	4.992%
7	9.690	9.644	9.781	BB	1180215	13113038	89.98%	5.079%
8	11.130	11.078	11.201	BB	1079467	13072737	89.70%	5.063%
9	11.437	11.381	11.494	BB	1234445	14573832	100.00%	5.645%
10	12.434	12.388	12.478	BB	978654	12431492	85.30%	4.815%
11	12.874	12.831	12.941	BB	832699	10772279	73.92%	4.172%
12	13.044	12.998	13.111	BB	991571	12187560	83.63%	4.720%
13	13.628	13.584	13.694	BB	957218	12054623	82.71%	4.669%
14	14.728	14.681	14.794	BB	869860	11873929	81.47%	4.599%
15	15.746	15.661	15.791	BB	868521	11563228	79.34%	4.479%
16	16.694	16.541	16.761	BB	818402	11250832	77.20%	4.358%
17	17.581	17.504	17.644	BB	789424	11253721	77.22%	4.359%
18	18.410	18.351	18.474	BB	740134	10723134	73.58%	4.153%
19	19.191	19.121	19.251	BB	633829	9454823	64.88%	3.662%
20	19.928	19.871	19.994	BB	551088	8235414	56.51%	3.190%
21	20.642	20.581	20.711	BB	456102	7745753	53.15%	3.000%
22	21.501	21.431	21.601	BB	302473	7415818	50.88%	2.872%
Sum of corrected areas:						258188854		

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

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

Instrument :
 FID_C
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

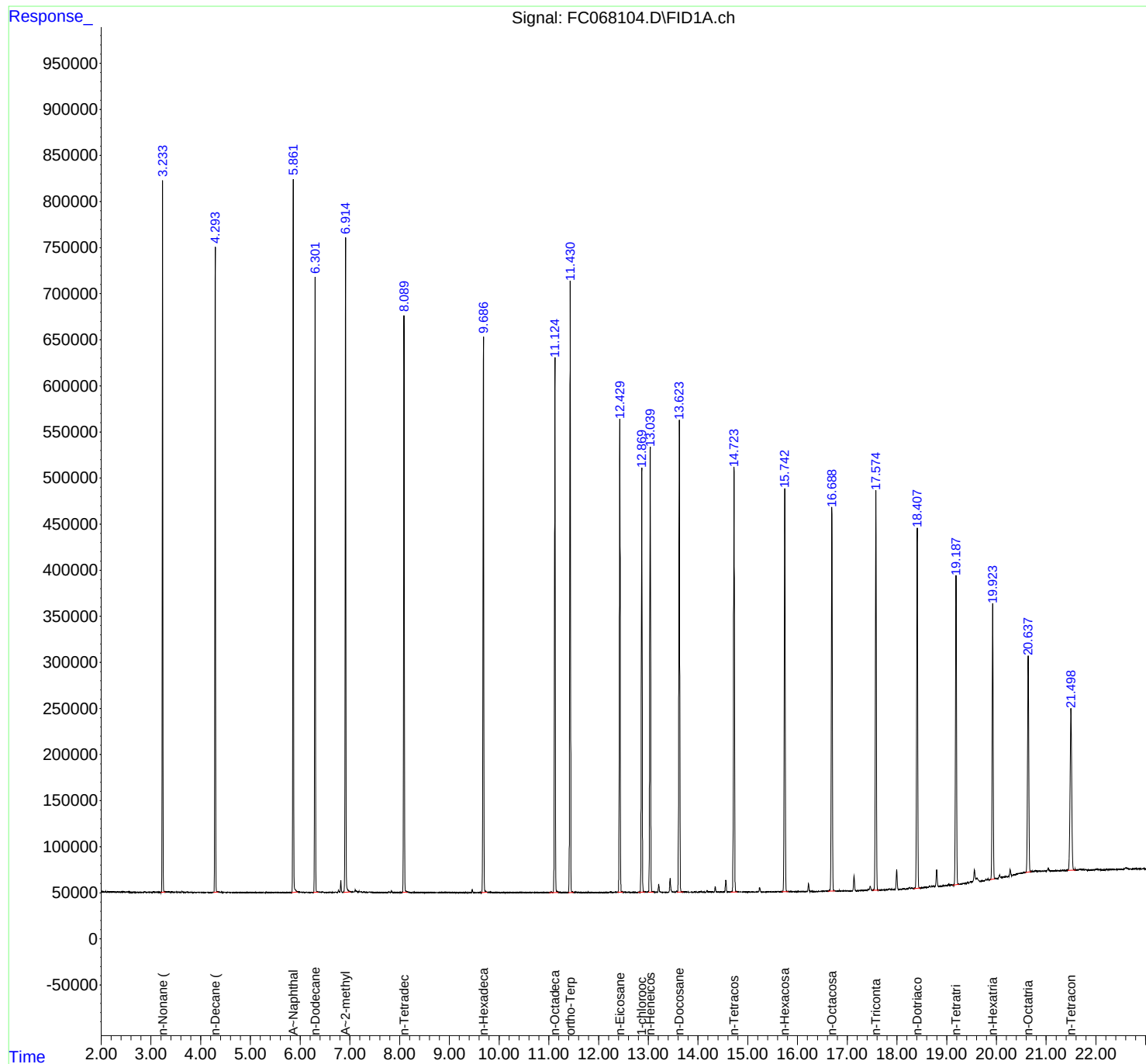
(m)=manual int.

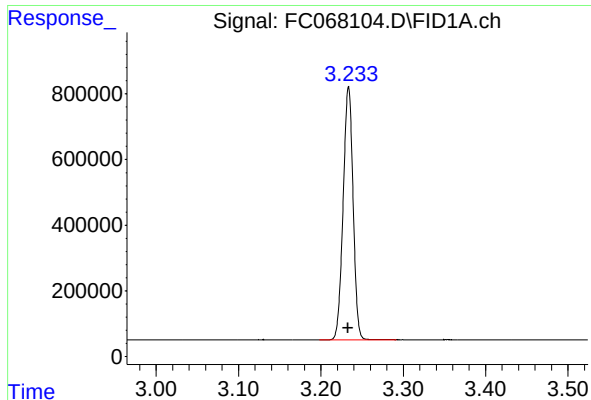
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068104.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:23
Operator : YP/AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2

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

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

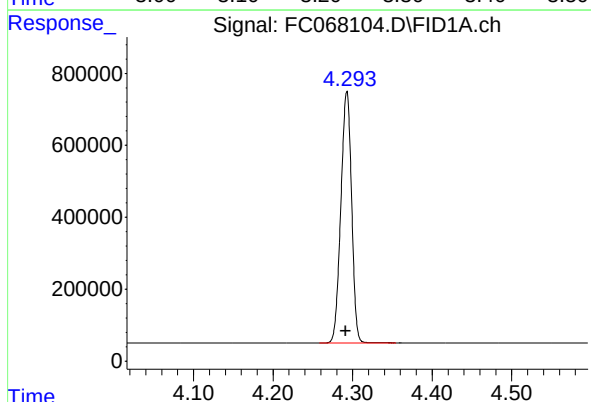




#1 n-Nonane (C9)

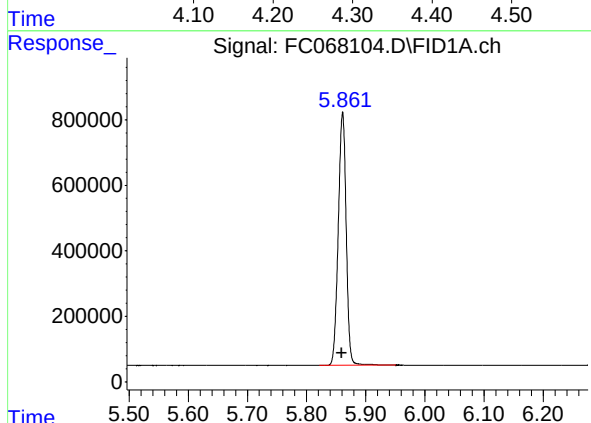
R.T.: 3.234 min
Delta R.T.: 0.000 min
Response: 6442775
Conc: 45.85 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



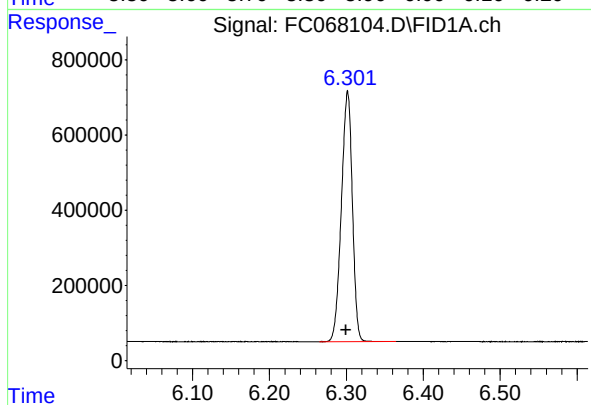
#2 n-Decane (C10)

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



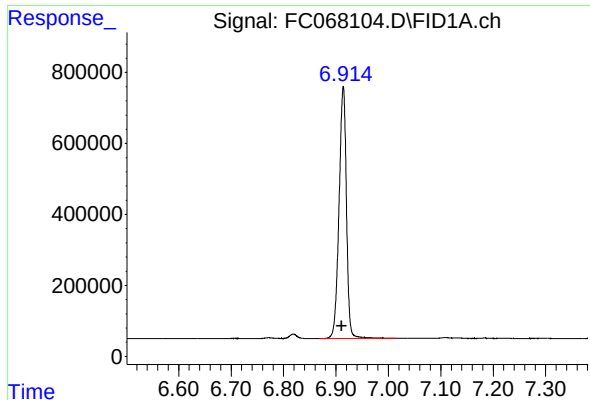
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

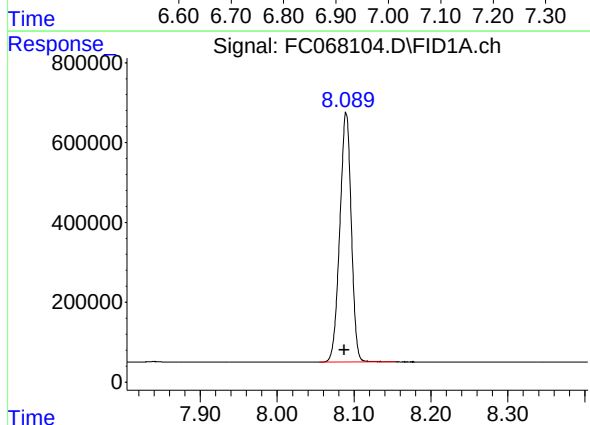
R.T.: 6.301 min
Delta R.T.: 0.002 min
Response: 6592781
Conc: 45.65 ug/ml



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

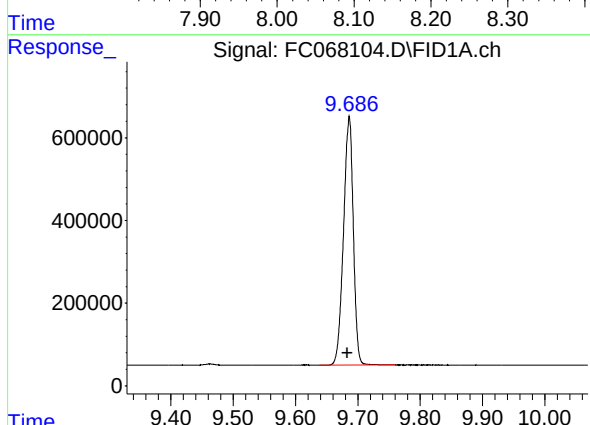
R.T.: 6.914 min
Delta R.T.: 0.003 min
Response: 6965539
Conc: 46.52 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



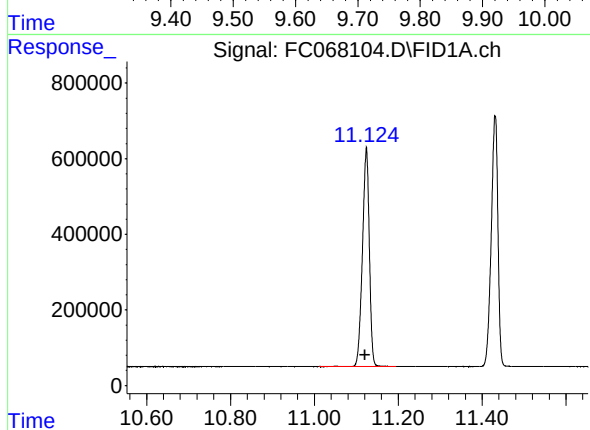
#6 n-Tetradecane (C14)

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



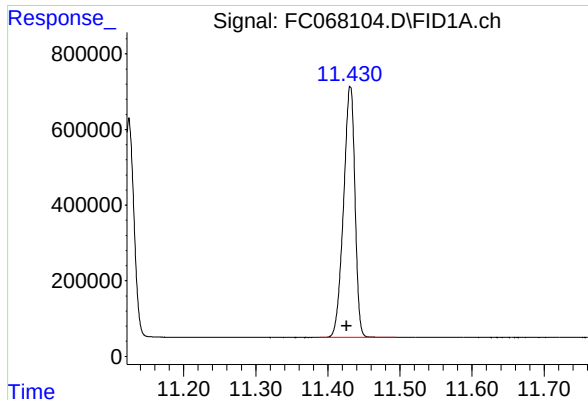
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

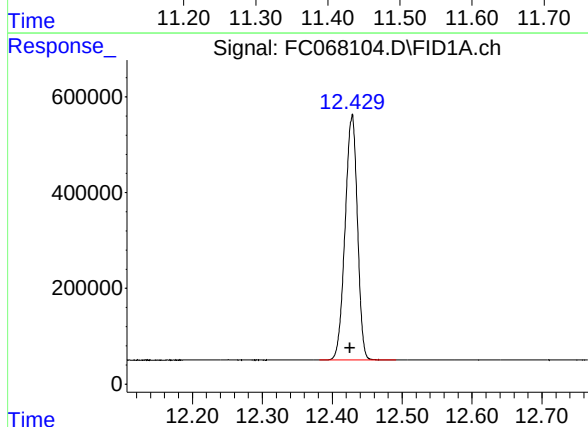
R.T.: 11.124 min
Delta R.T.: 0.003 min
Response: 6583402
Conc: 45.31 ug/ml



#9 ortho-Terphenyl (SURR)

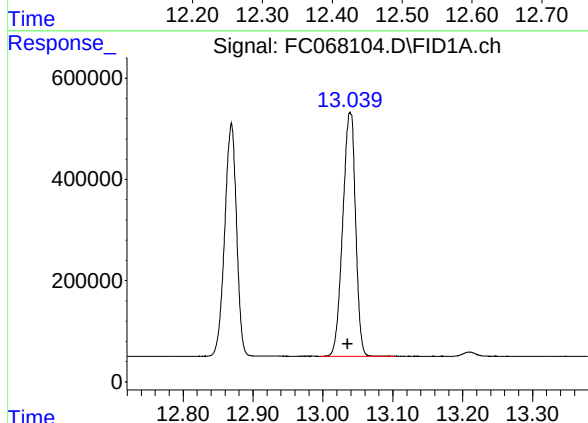
R.T.: 11.431 min
Delta R.T.: 0.005 min
Response: 7322791
Conc: 45.32 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



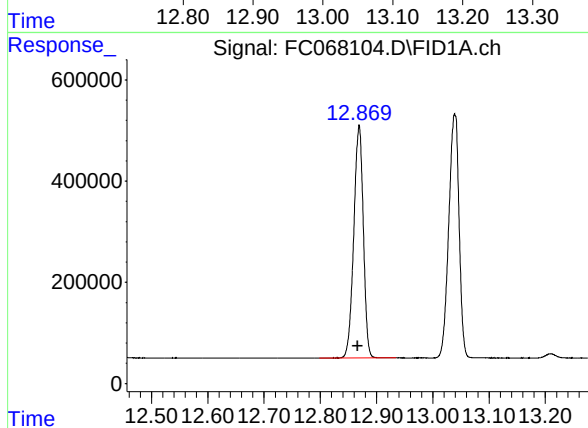
#10 n-Eicosane (C20)

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



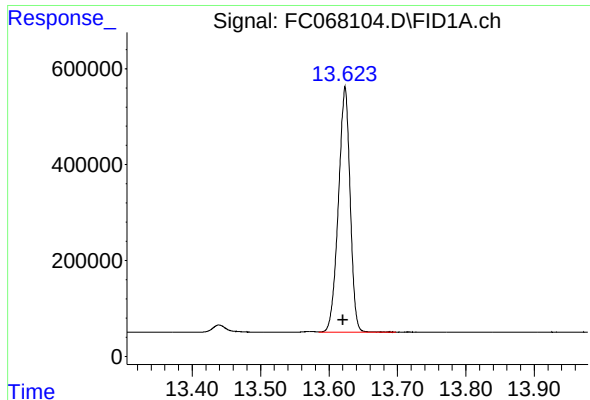
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

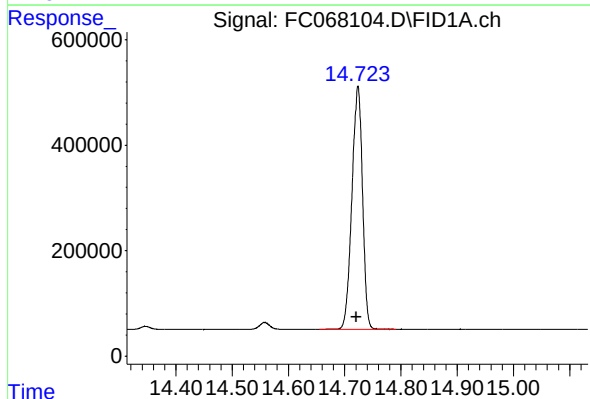
R.T.: 12.869 min
Delta R.T.: 0.002 min
Response: 5415134
Conc: 45.32 ug/ml



#13 n-Docosane (C22)

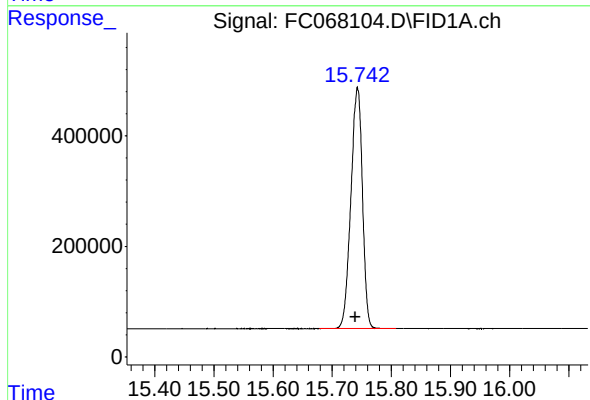
R.T.: 13.623 min
Delta R.T.: 0.003 min
Response: 6085749
Conc: 45.57 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



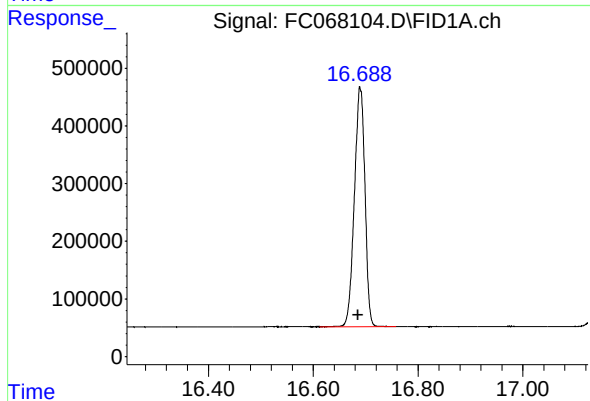
#14 n-Tetracosane (C24)

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



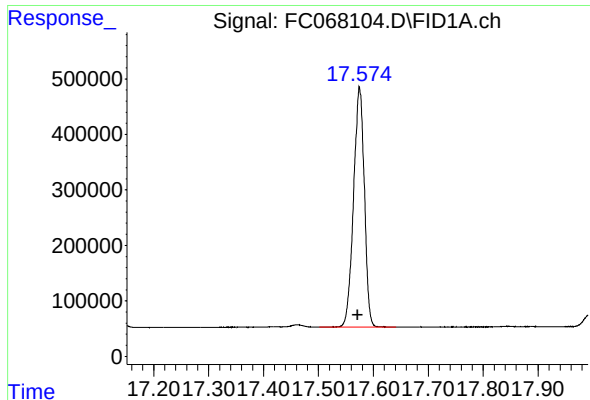
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

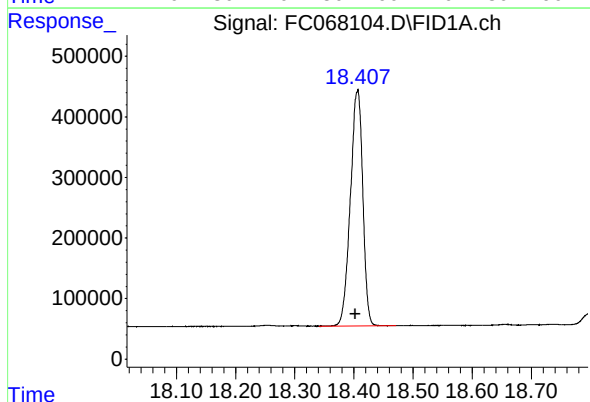
R.T.: 16.690 min
Delta R.T.: 0.004 min
Response: 5826695
Conc: 45.53 ug/ml



#17 n-Tricontane (C30)

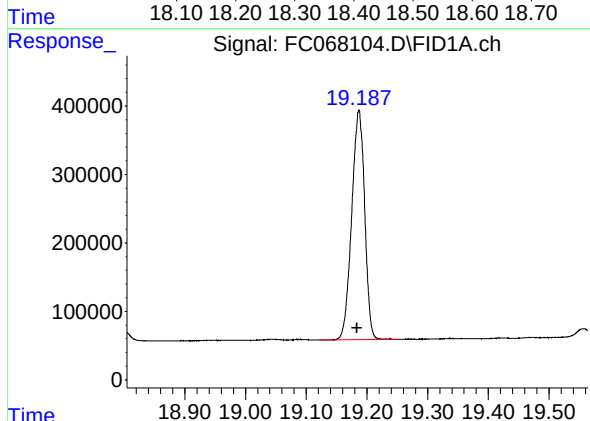
R.T.: 17.575 min
Delta R.T.: 0.004 min
Response: 5915990
Conc: 44.96 ug/ml

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



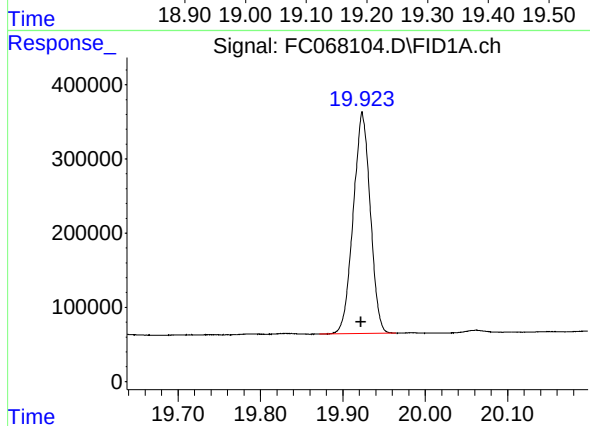
#18 n-Dotriacontane (C32)

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



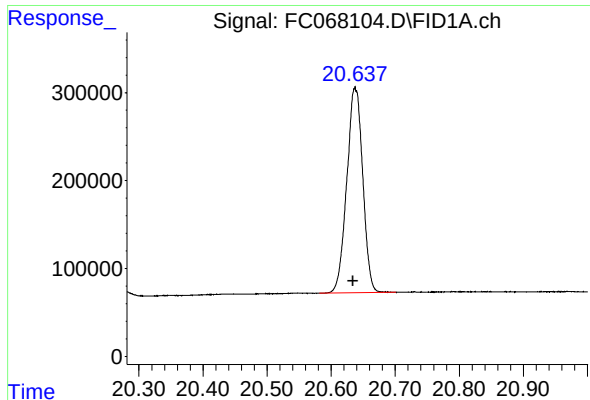
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

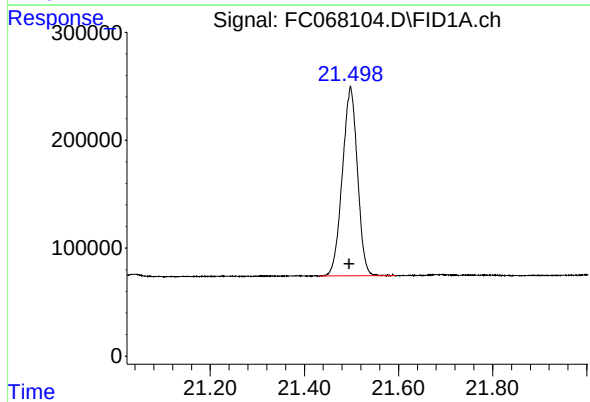
R.T.: 19.924 min
Delta R.T.: 0.002 min
Response: 4283541
Conc: 45.63 ug/ml



#21 n-Octatriacontane (C38)

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

Instrument :
FID_C
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.234	3.198	3.291	BB	774278	6442775	87.98%	4.912%
2	4.293	4.258	4.355	BB	693906	6559814	89.58%	5.001%
3	5.861	5.821	5.951	BB	772740	7202894	98.36%	5.492%
4	6.301	6.265	6.365	BB	662417	6592781	90.03%	5.027%
5	6.914	6.868	7.015	BB	713919	6965539	95.12%	5.311%
6	8.090	8.055	8.155	BB	627229	6460619	88.23%	4.926%
7	9.686	9.638	9.761	BB	591032	6574658	89.78%	5.013%
8	11.124	11.011	11.195	BB	577849	6583402	89.90%	5.019%
9	11.431	11.388	11.495	BB	668563	7322791	100.00%	5.583%
10	12.428	12.381	12.491	BB	508780	6256943	85.44%	4.770%
11	12.869	12.798	12.935	BB	454323	5415134	73.95%	4.129%
12	13.039	12.995	13.105	BB	483558	6131455	83.73%	4.675%
13	13.623	13.585	13.698	VB	513190	6085749	83.11%	4.640%
14	14.724	14.655	14.791	BB	462982	6046058	82.56%	4.610%
15	15.743	15.678	15.808	BB	432175	5918808	80.83%	4.513%
16	16.690	16.611	16.758	BB	414810	5826695	79.57%	4.442%
17	17.575	17.501	17.641	BB	432146	5915990	80.79%	4.511%
18	18.406	18.341	18.471	BB	388200	5678551	77.55%	4.329%
19	19.187	19.121	19.248	BB	335389	4970299	67.87%	3.789%
20	19.924	19.871	19.965	BB	294922	4283541	58.50%	3.266%
21	20.638	20.581	20.701	BB	232299	4034854	55.10%	3.076%
22	21.498	21.431	21.595	BB	175086	3890423	53.13%	2.966%
Sum of corrected areas:						131159772		

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

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

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

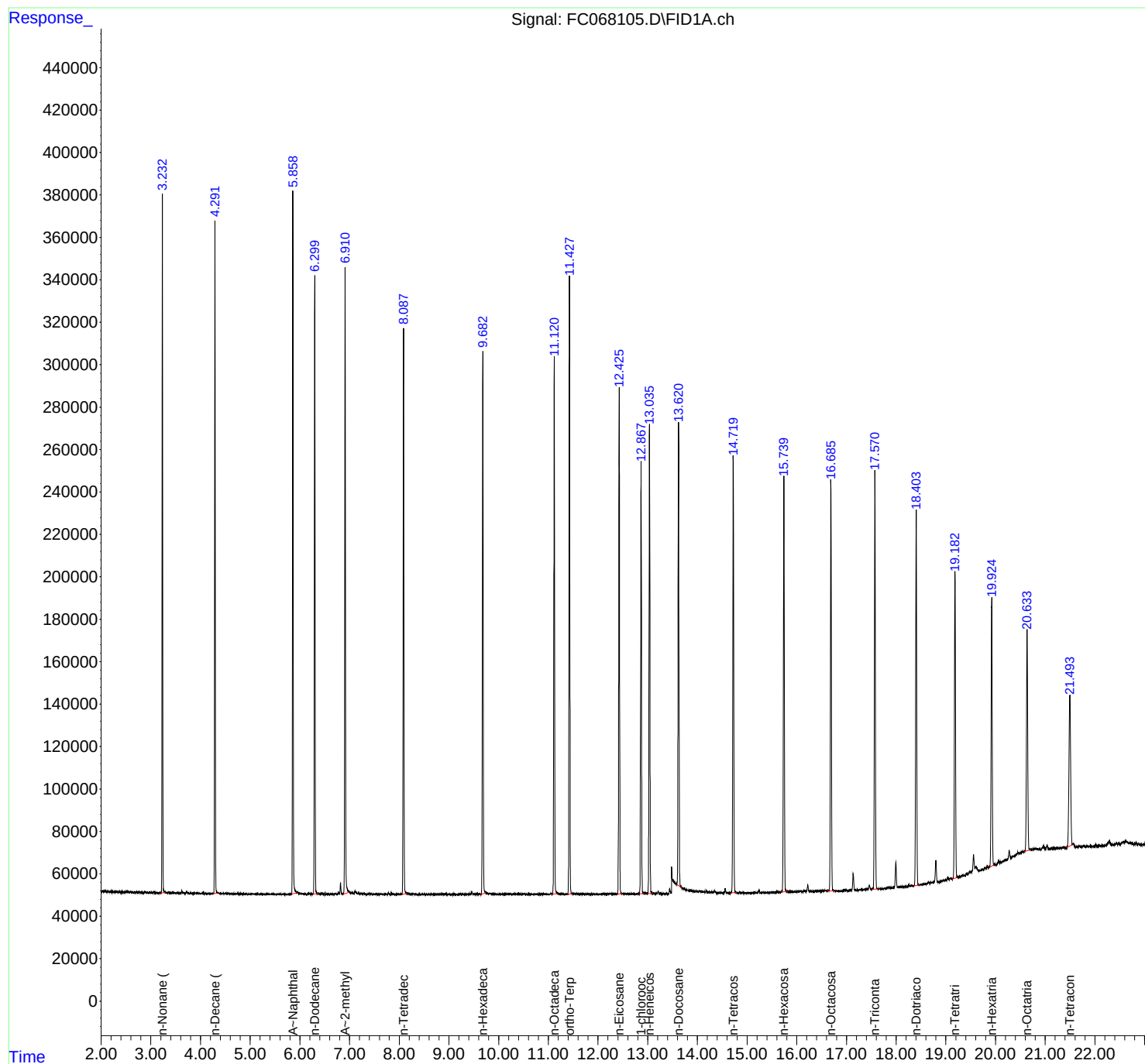
(m)=manual int.

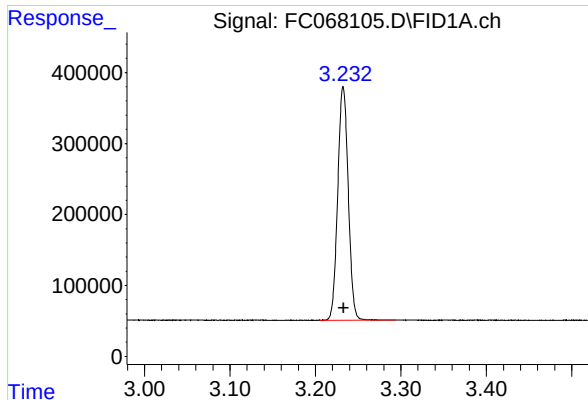
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068105.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 09:58
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3

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

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

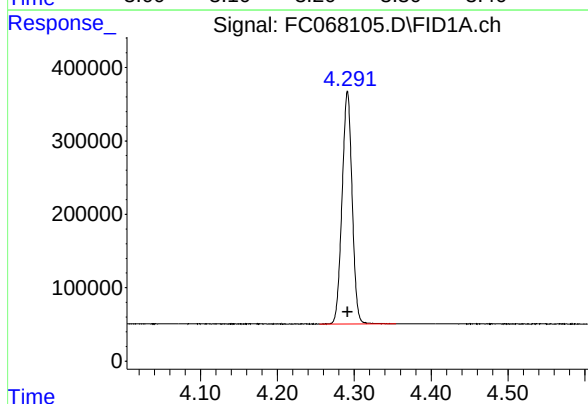




#1 n-Nonane (C9)

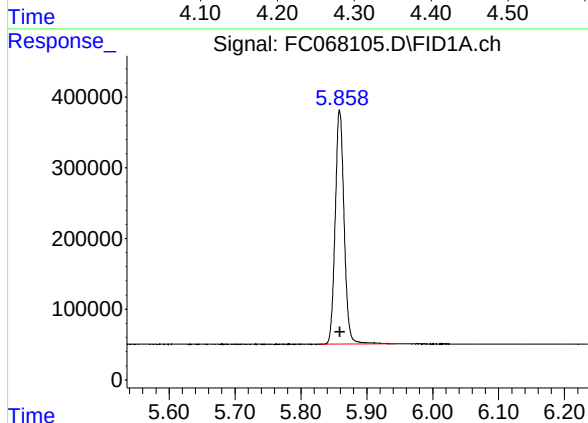
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 2810367
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



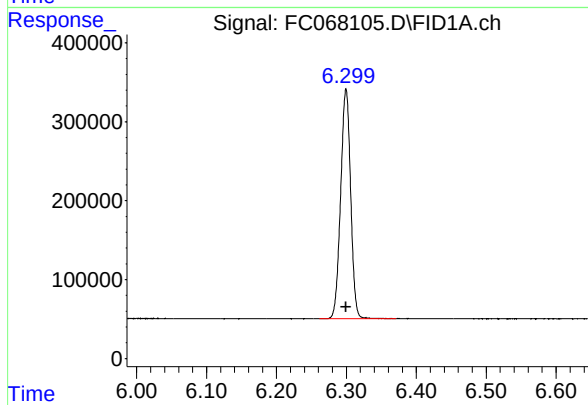
#2 n-Decane (C10)

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



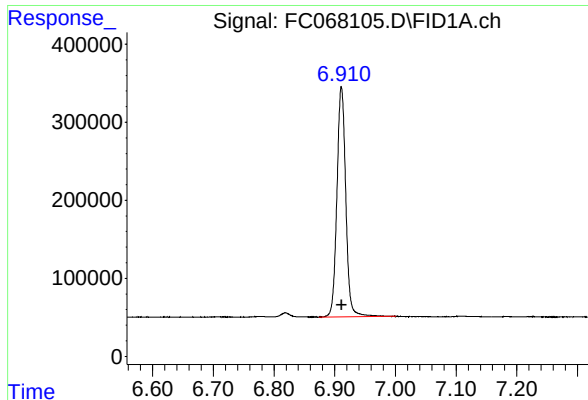
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

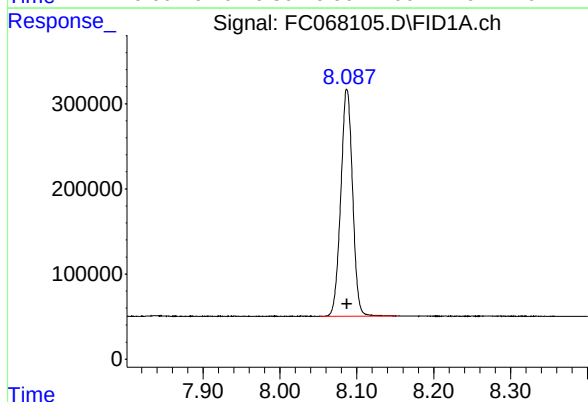
R.T.: 6.300 min
Delta R.T.: 0.000 min
Response: 2888346
Conc: 20.00 ug/ml



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

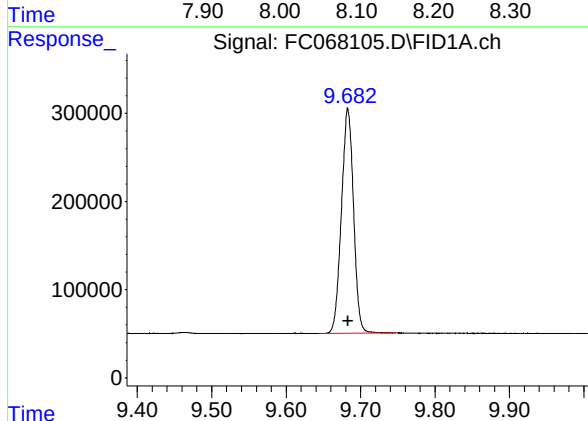
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 2994869
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



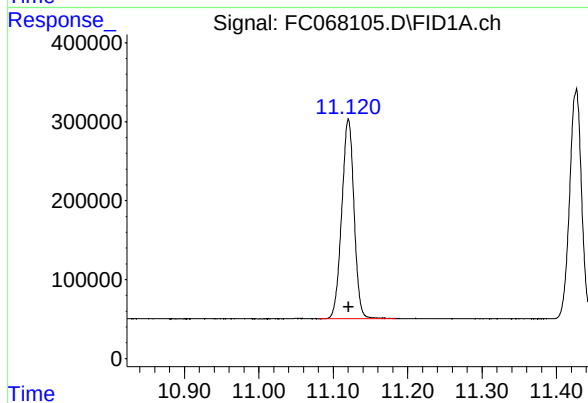
#6 n-Tetradecane (C14)

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



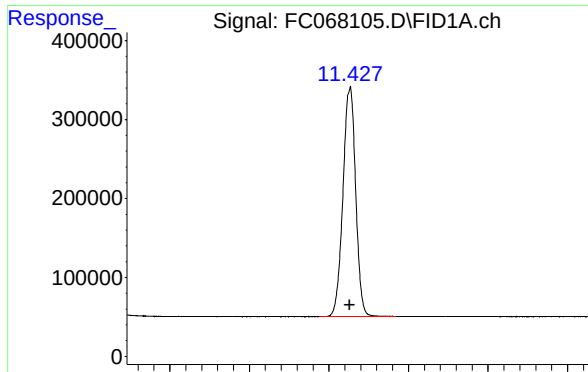
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

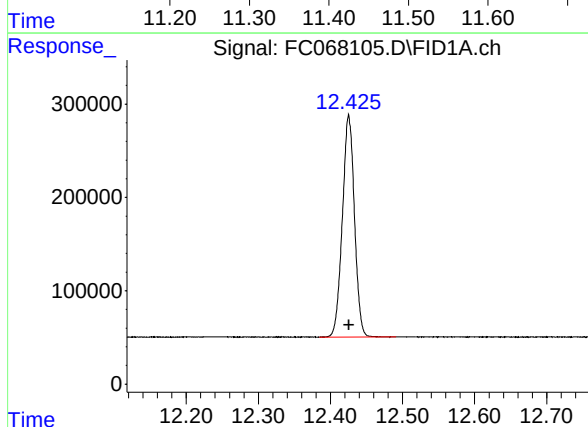
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 2905661
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

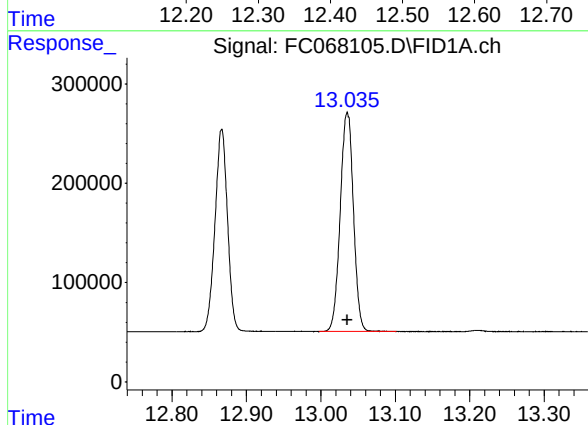
R.T.: 11.426 min
Delta R.T.: 0.000 min
Response: 3231539
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



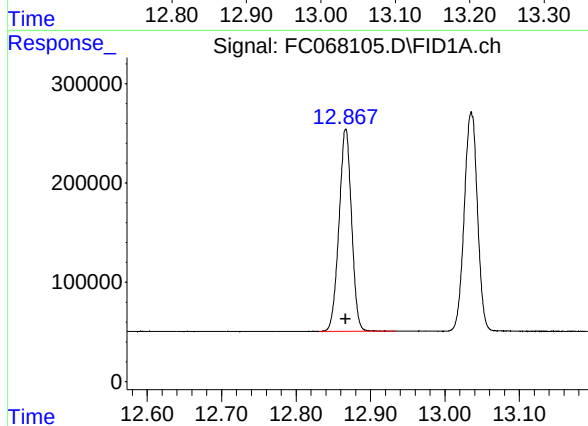
#10 n-Eicosane (C20)

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



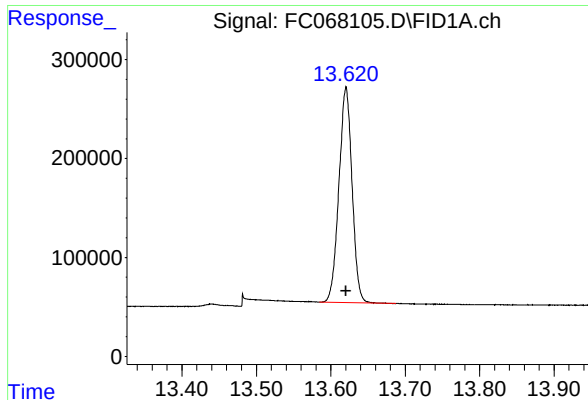
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

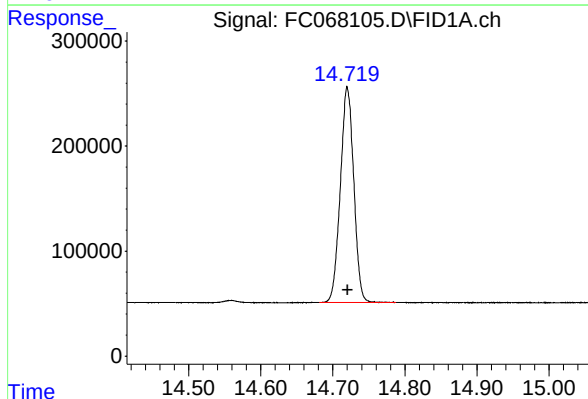
R.T.: 12.867 min
Delta R.T.: 0.000 min
Response: 2389546
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

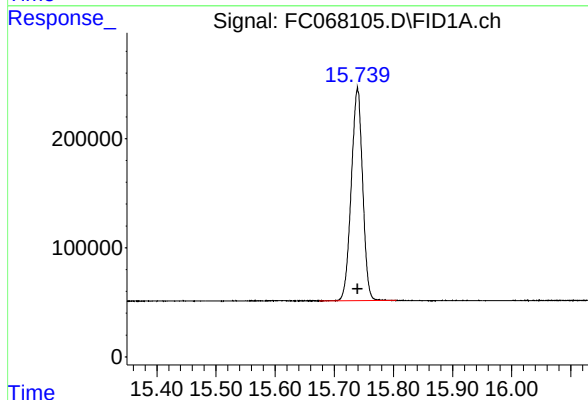
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 2671035
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



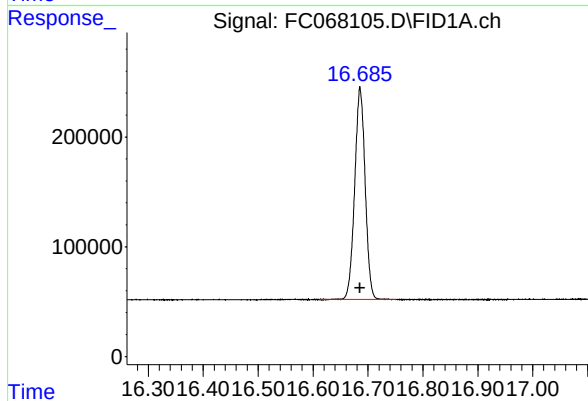
#14 n-Tetracosane (C24)

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



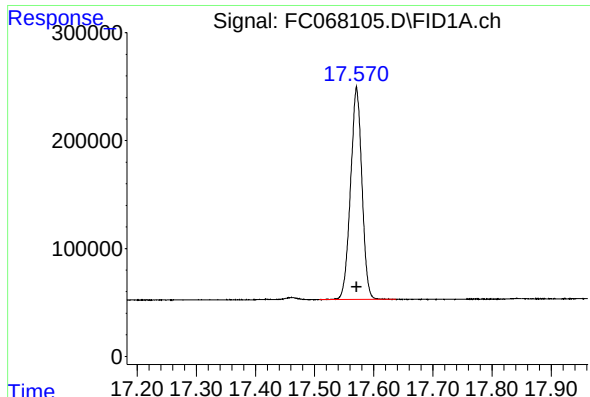
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

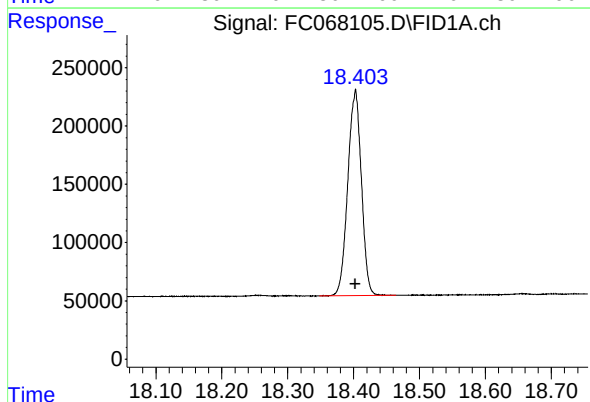
R.T.: 16.686 min
Delta R.T.: 0.000 min
Response: 2559534
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

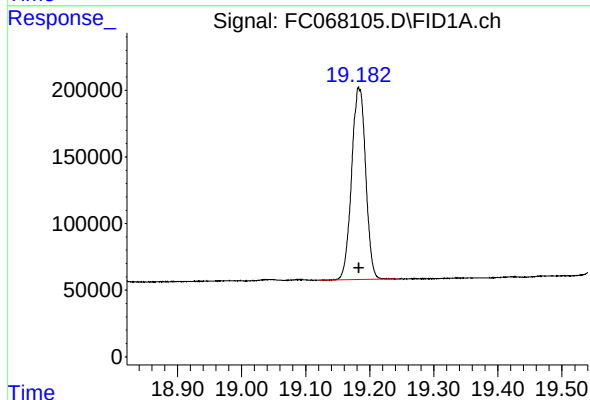
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 2631800
Conc: 20.00 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



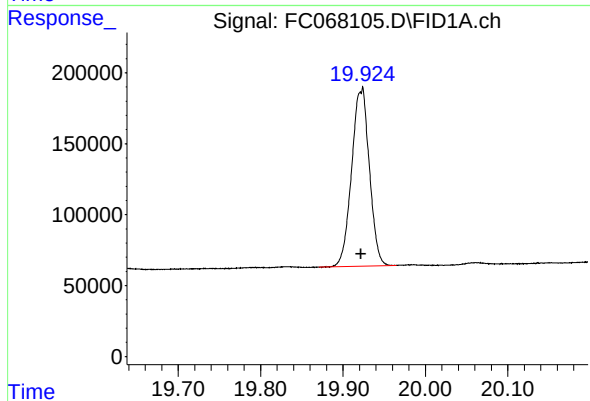
#18 n-Dotriacontane (C32)

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



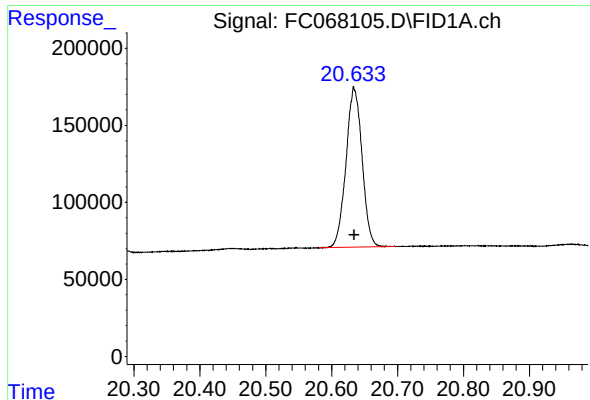
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

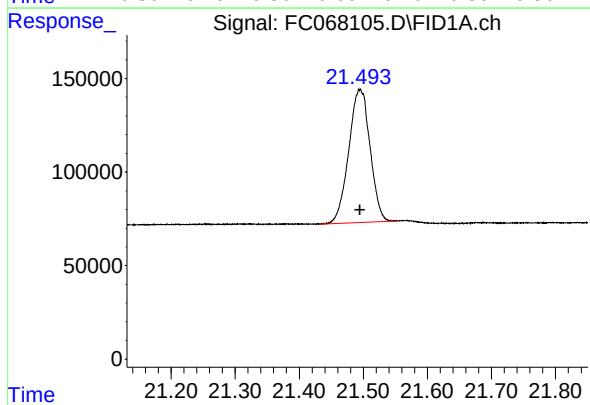
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 1877473
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

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

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

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

Instrument :
 FID_C
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

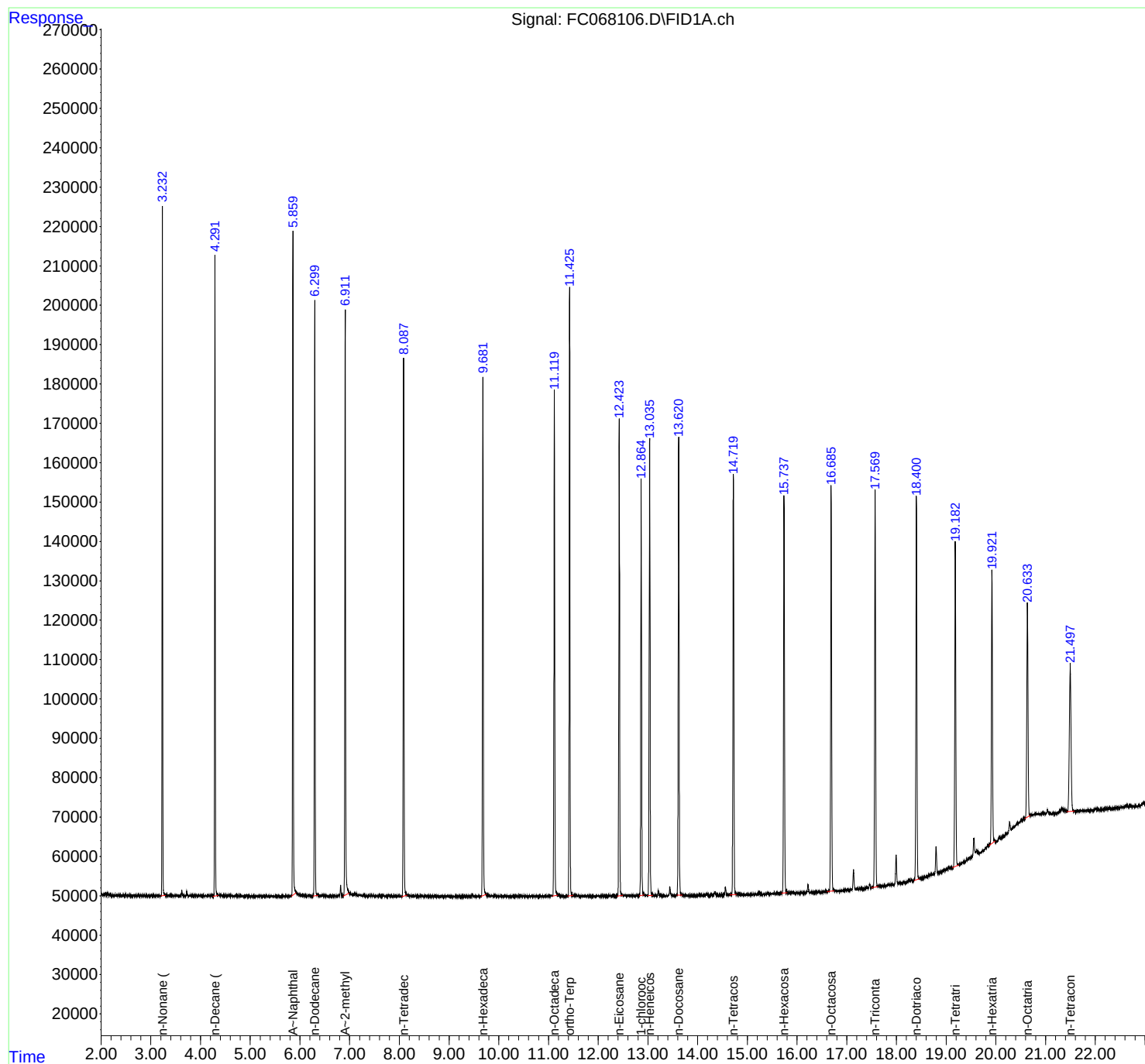
(m)=manual int.

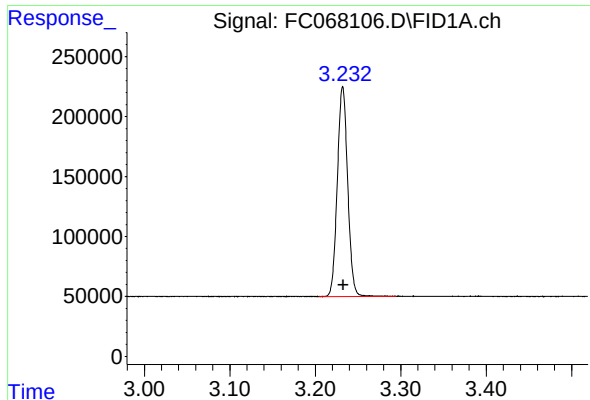
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068106.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 10:34
Operator : YP/AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4

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

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

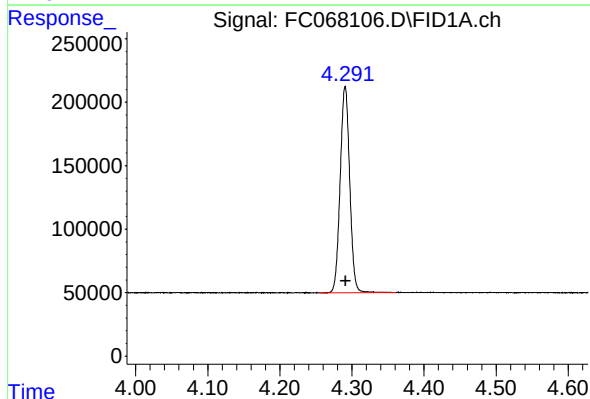




#1 n-Nonane (C9)

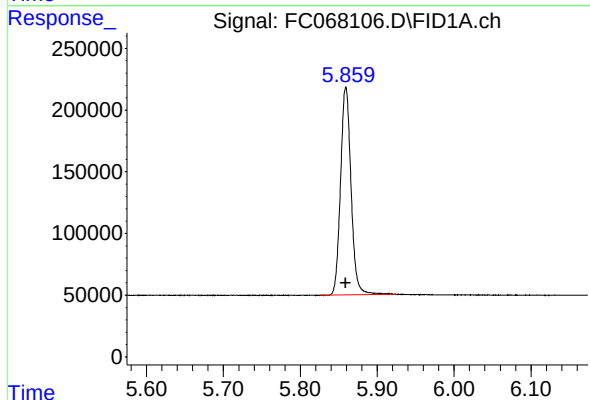
R.T.: 3.232 min
Delta R.T.: 0.000 min
Response: 1475263
Conc: 10.50 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



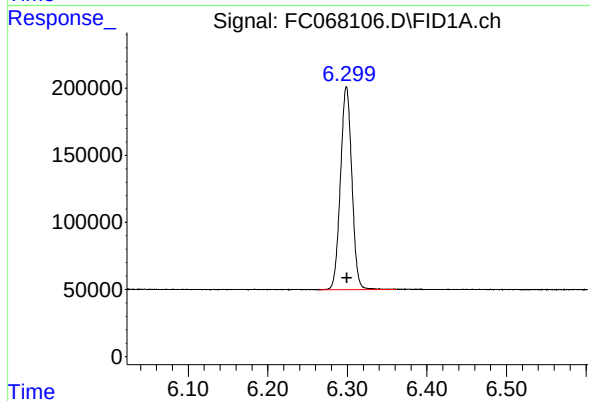
#2 n-Decane (C10)

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



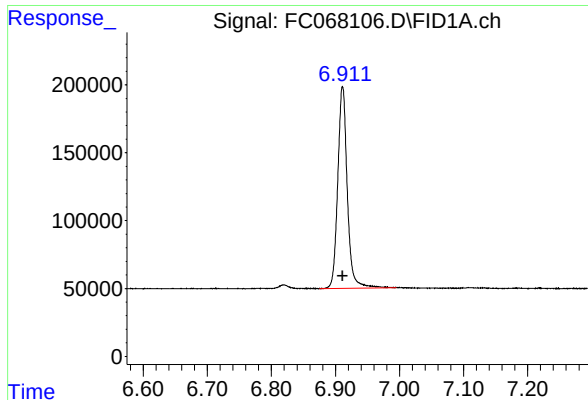
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

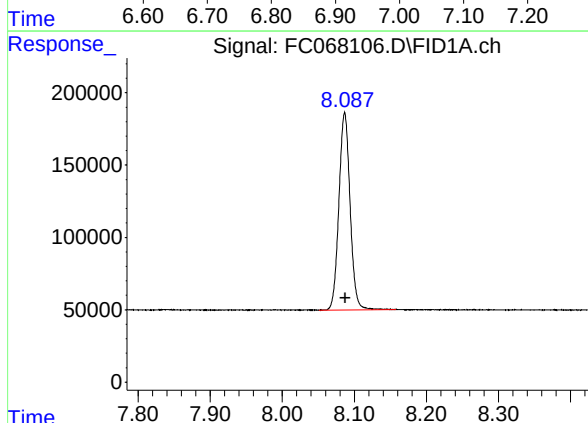
R.T.: 6.299 min
Delta R.T.: 0.000 min
Response: 1504156
Conc: 10.42 ug/ml



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

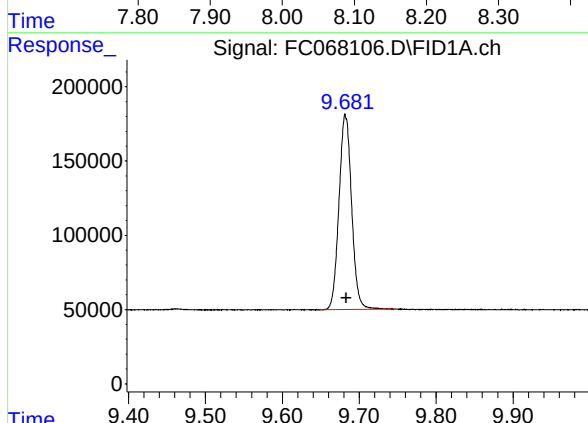
R.T.: 6.911 min
Delta R.T.: 0.000 min
Response: 1531057
Conc: 10.22 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



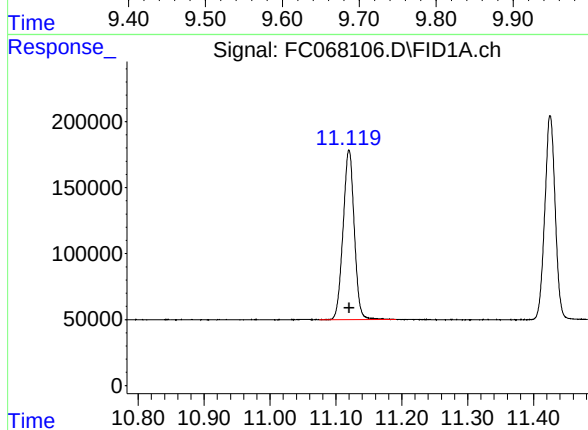
#6 n-Tetradecane (C14)

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



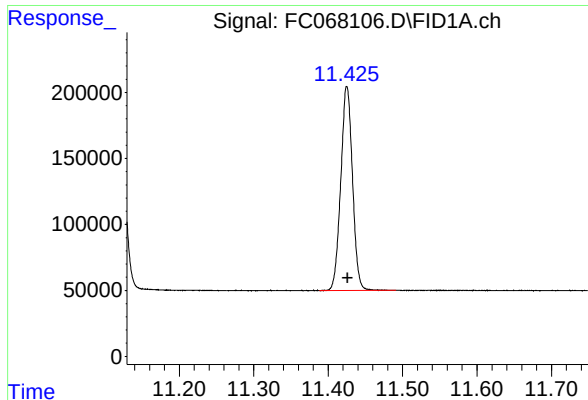
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

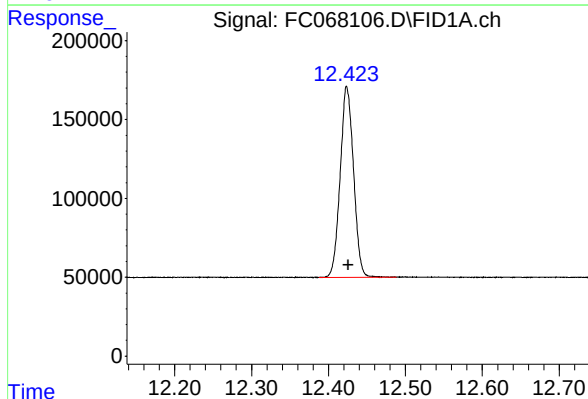
R.T.: 11.120 min
Delta R.T.: 0.000 min
Response: 1516982
Conc: 10.44 ug/ml



#9 ortho-Terphenyl (SURR)

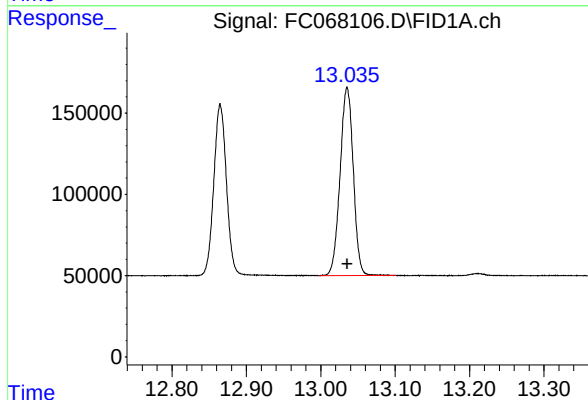
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 1693195
Conc: 10.48 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



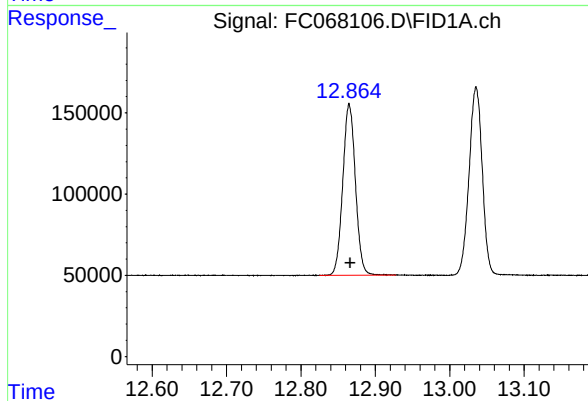
#10 n-Eicosane (C20)

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



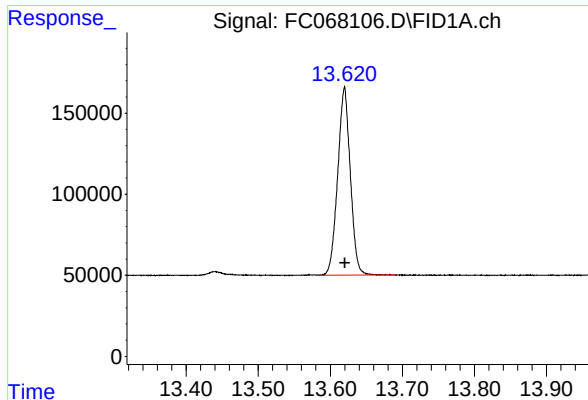
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

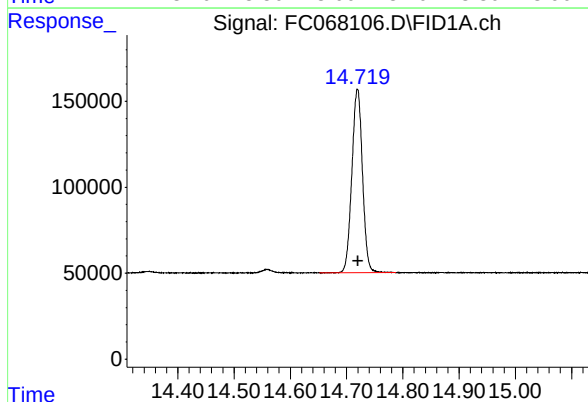
R.T.: 12.865 min
Delta R.T.: -0.002 min
Response: 1244032
Conc: 10.41 ug/ml



#13 n-Docosane (C22)

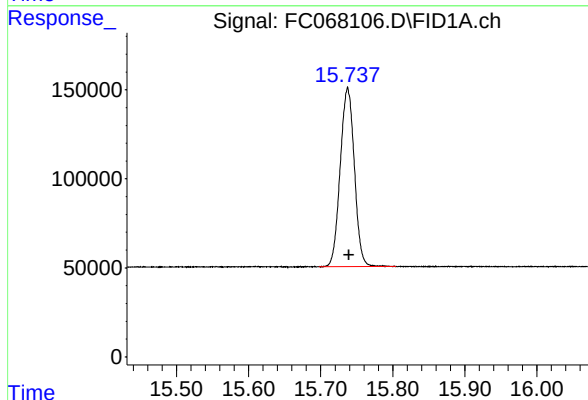
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 1411126
Conc: 10.57 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



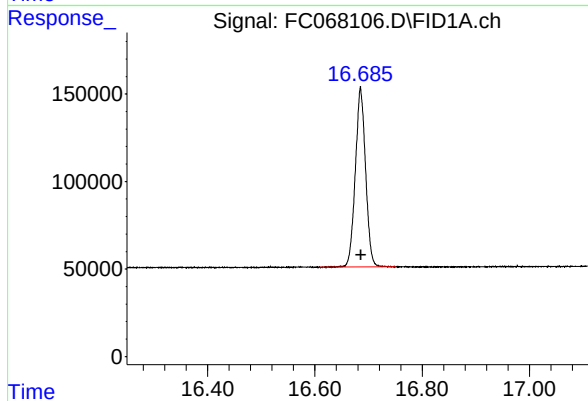
#14 n-Tetracosane (C24)

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



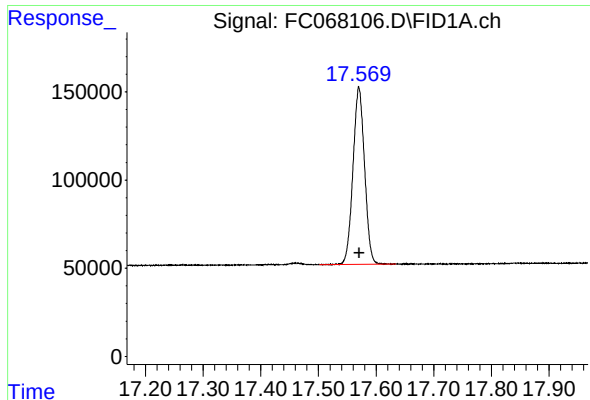
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

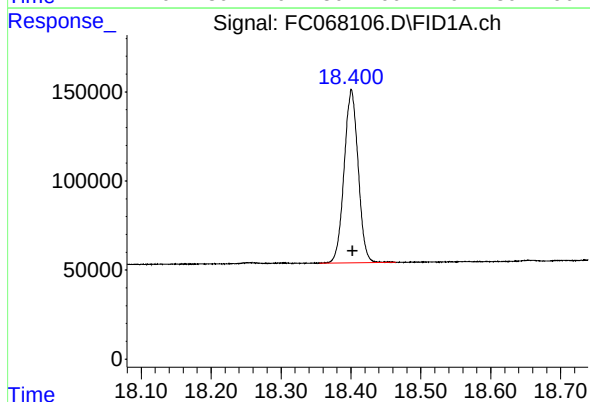
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 1362142
Conc: 10.64 ug/ml



#17 n-Tricontane (C30)

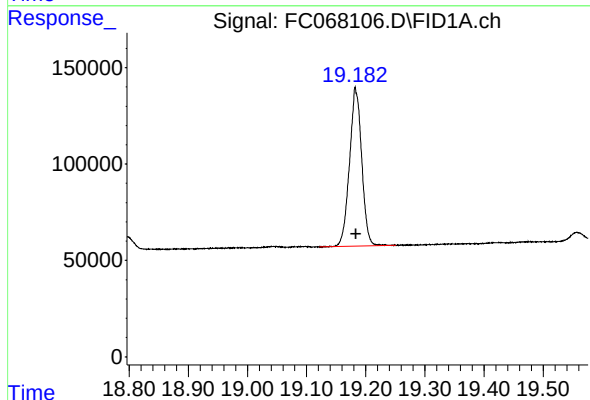
R.T.: 17.570 min
Delta R.T.: 0.000 min
Response: 1402454
Conc: 10.66 ug/ml

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



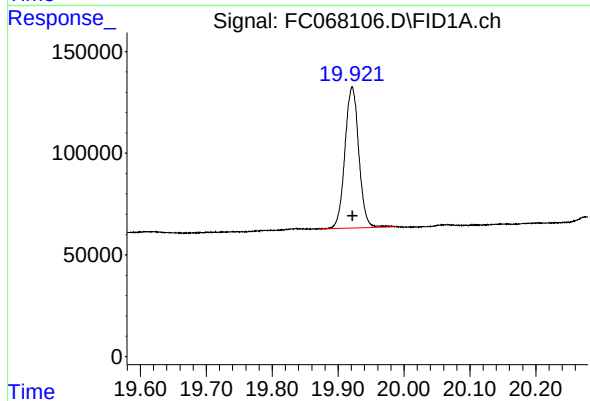
#18 n-Dotriacontane (C32)

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



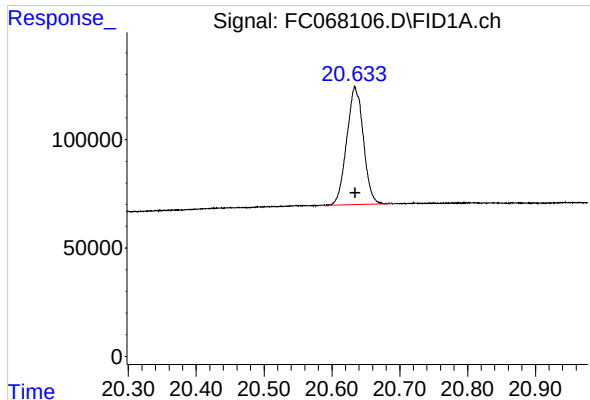
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

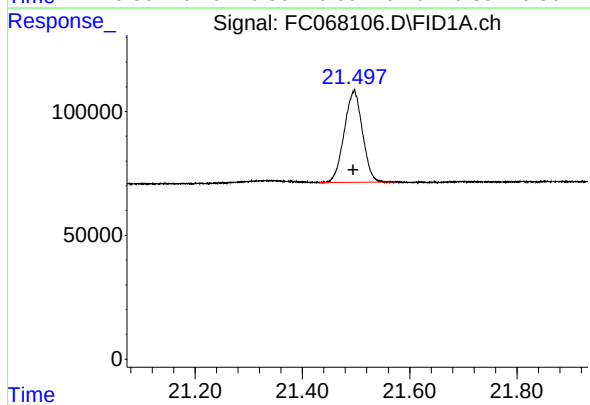
R.T.: 19.921 min
Delta R.T.: 0.000 min
Response: 1013341
Conc: 10.79 ug/ml



#21 n-Octatriacontane (C38)

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

Instrument :
FID_C
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.232	3.204	3.294	BB	173891	1475263	87.13%	4.886%
2	4.291	4.254	4.361	BB	162720	1496558	88.39%	4.956%
3	5.859	5.824	5.924	BB	168195	1594666	94.18%	5.281%
4	6.299	6.264	6.361	BB	150731	1504156	88.84%	4.981%
5	6.911	6.874	6.994	BB	149273	1531057	90.42%	5.071%
6	8.087	8.051	8.158	BB	136084	1470817	86.87%	4.871%
7	9.682	9.648	9.748	BB	131211	1497439	88.44%	4.959%
8	11.120	11.074	11.191	BB	128815	1516982	89.59%	5.024%
9	11.425	11.388	11.491	BB	155292	1693195	100.00%	5.608%
10	12.424	12.388	12.488	BB	120109	1453910	85.87%	4.815%
11	12.865	12.824	12.928	BB	105028	1244032	73.47%	4.120%
12	13.035	12.998	13.101	BB	115485	1431349	84.54%	4.740%
13	13.620	13.584	13.691	BB	115583	1411126	83.34%	4.673%
14	14.719	14.651	14.788	BB	106542	1400111	82.69%	4.637%
15	15.737	15.698	15.804	BB	100036	1370317	80.93%	4.538%
16	16.685	16.608	16.751	BB	102147	1362142	80.45%	4.511%
17	17.570	17.501	17.634	BB	100184	1402454	82.83%	4.645%
18	18.401	18.354	18.464	BB	97240	1354078	79.97%	4.484%
19	19.183	19.121	19.251	BB	79568	1175638	69.43%	3.893%
20	19.921	19.871	19.988	BB	69262	1013341	59.85%	3.356%
21	20.635	20.581	20.694	BB	53776	924019	54.57%	3.060%
22	21.497	21.431	21.574	BB	37309	872323	51.52%	2.889%
Sum of corrected areas:						30194970		

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

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

Instrument :
 FID_C
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

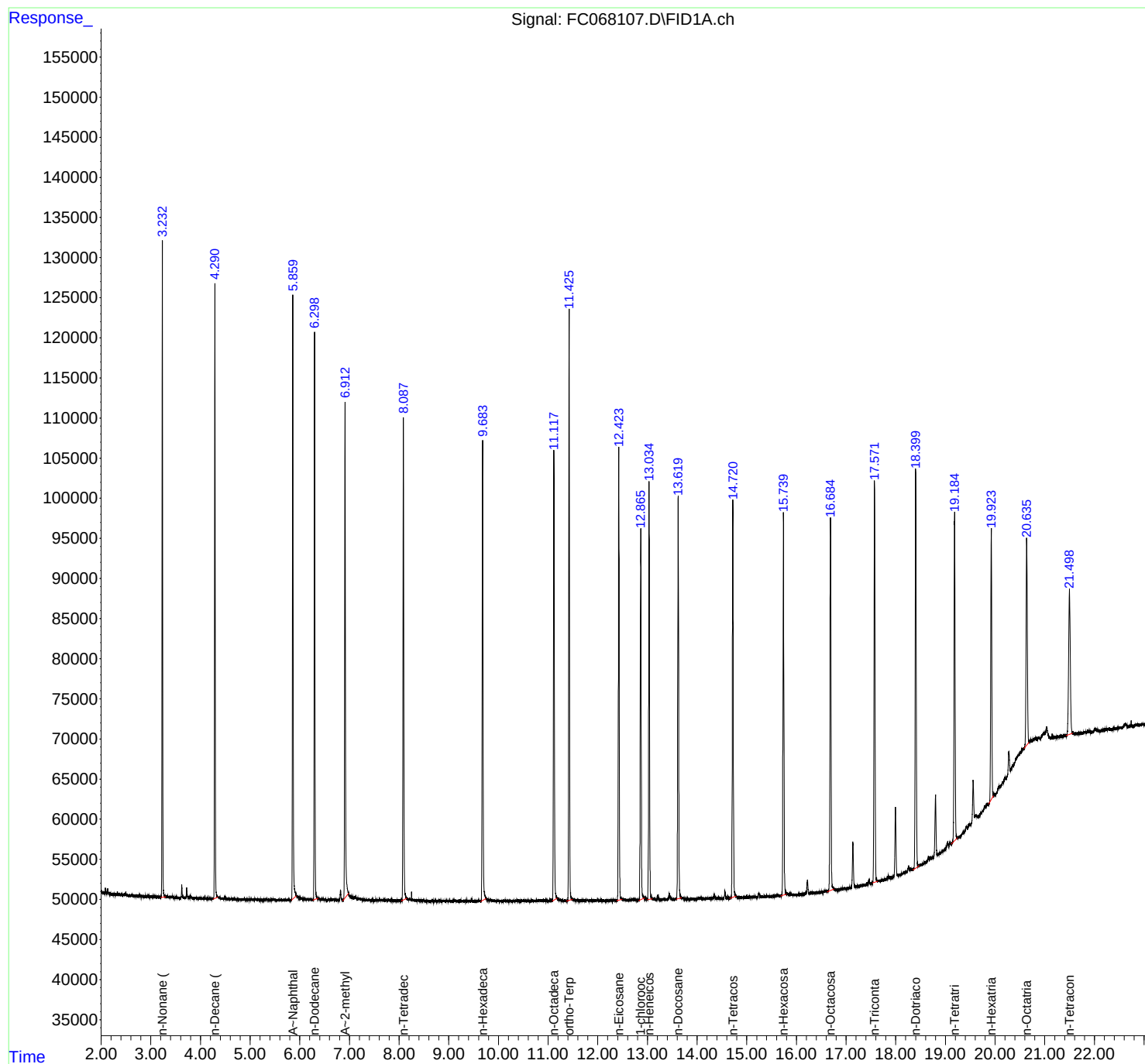
(m)=manual int.

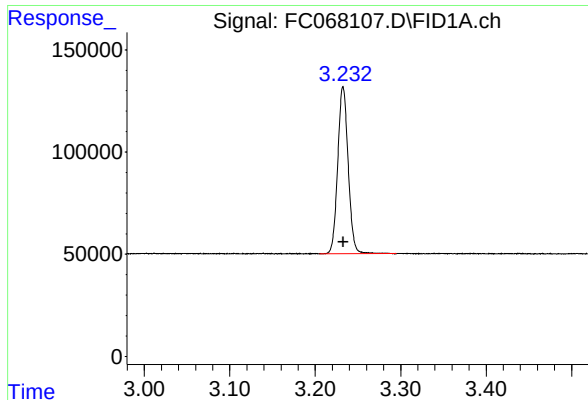
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068107.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:10
Operator : YP/AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5

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

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

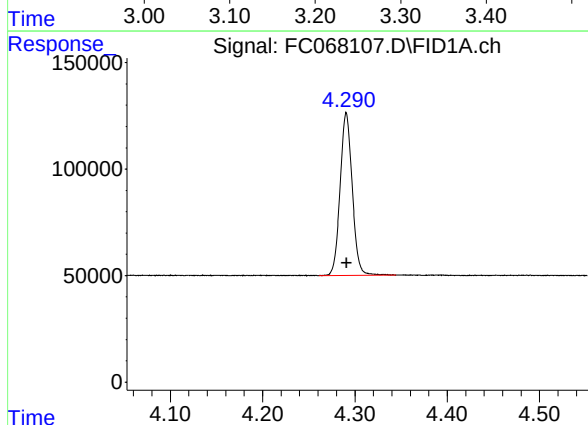




#1 n-Nonane (C9)

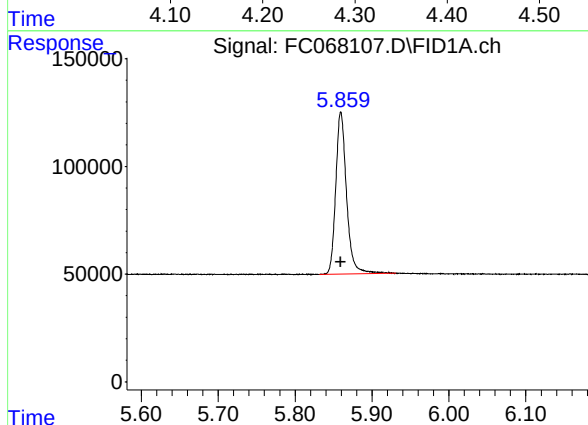
R.T.: 3.233 min
Delta R.T.: 0.000 min
Response: 694002
Conc: 4.94 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



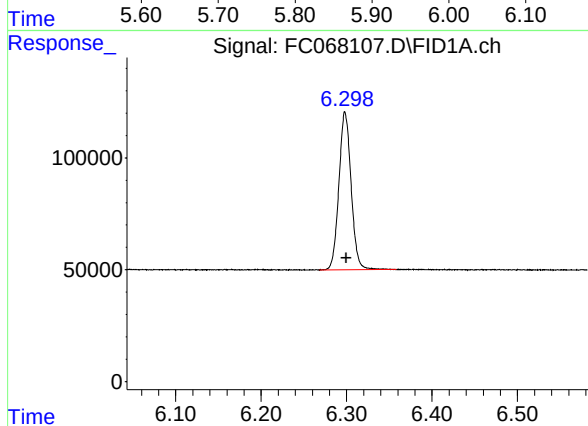
#2 n-Decane (C10)

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



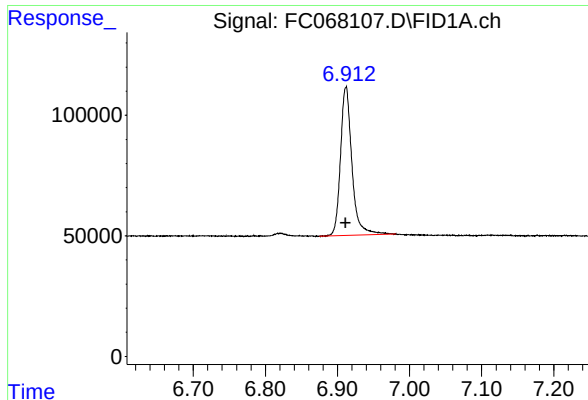
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

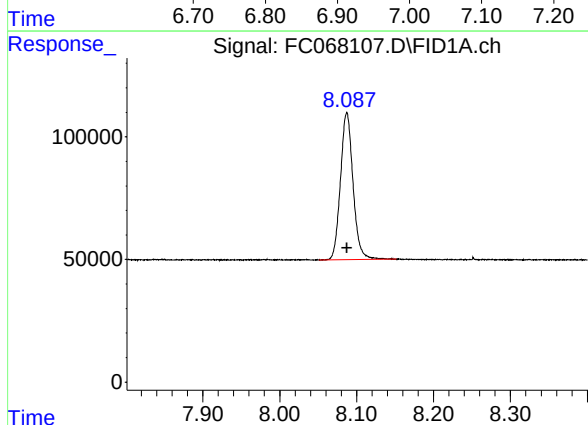
R.T.: 6.298 min
Delta R.T.: -0.001 min
Response: 701967
Conc: 4.86 ug/ml



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

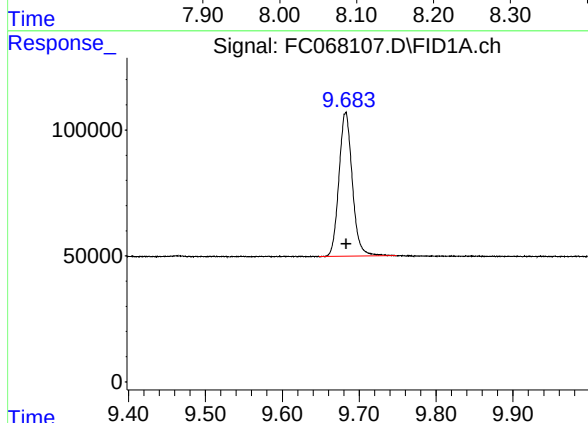
R.T.: 6.912 min
Delta R.T.: 0.000 min
Response: 679817
Conc: 4.54 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



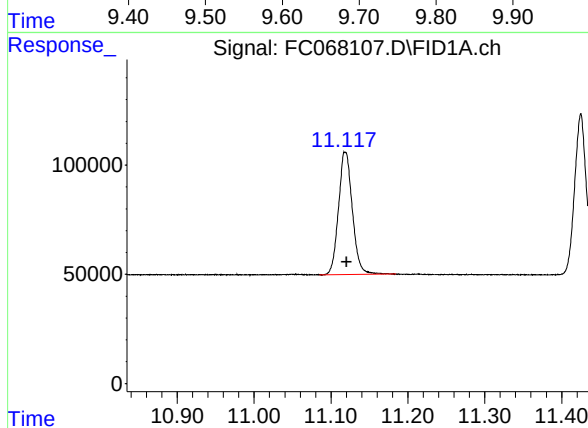
#6 n-Tetradecane (C14)

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



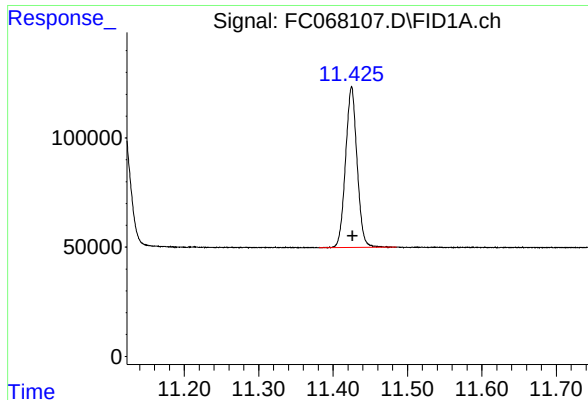
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

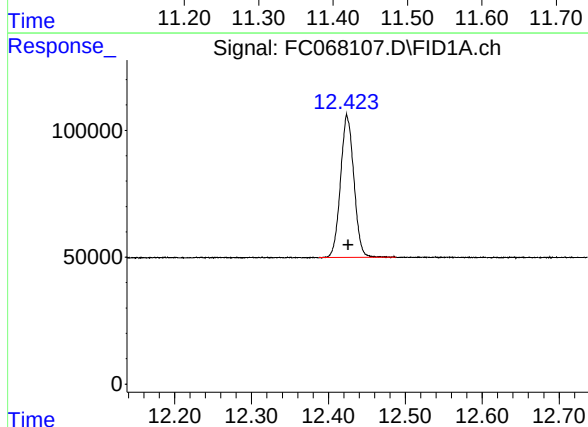
R.T.: 11.119 min
Delta R.T.: -0.002 min
Response: 701017
Conc: 4.83 ug/ml



#9 ortho-Terphenyl (SURR)

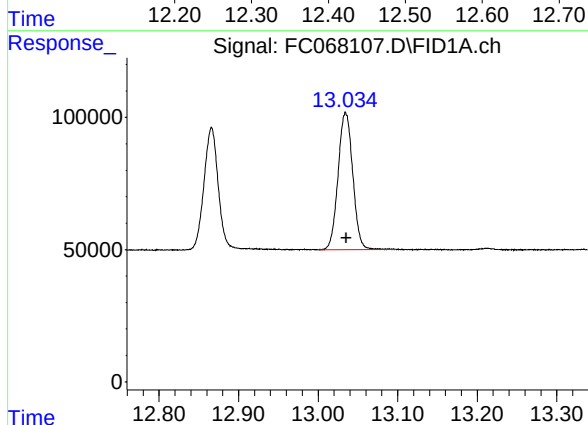
R.T.: 11.425 min
Delta R.T.: -0.001 min
Response: 791222
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



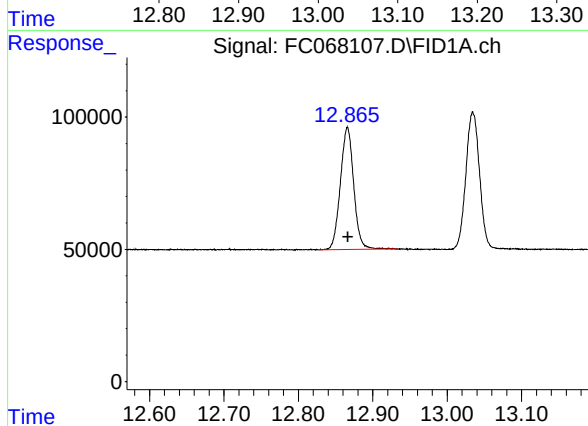
#10 n-Eicosane (C20)

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



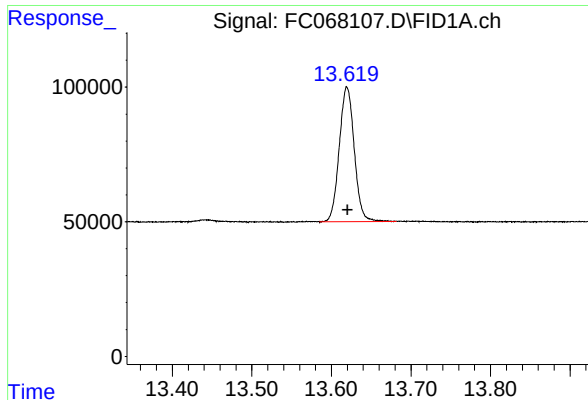
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

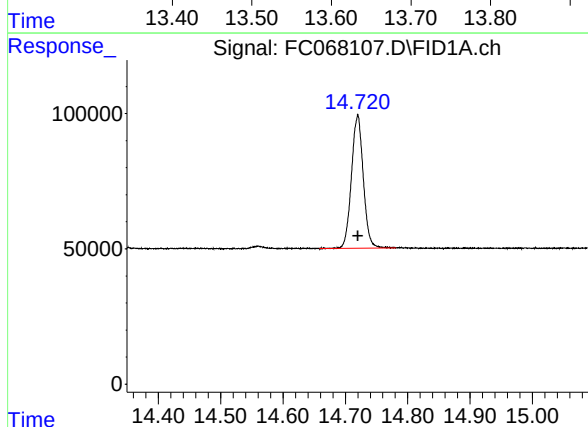
R.T.: 12.866 min
Delta R.T.: 0.000 min
Response: 575543
Conc: 4.82 ug/ml



#13 n-Docosane (C22)

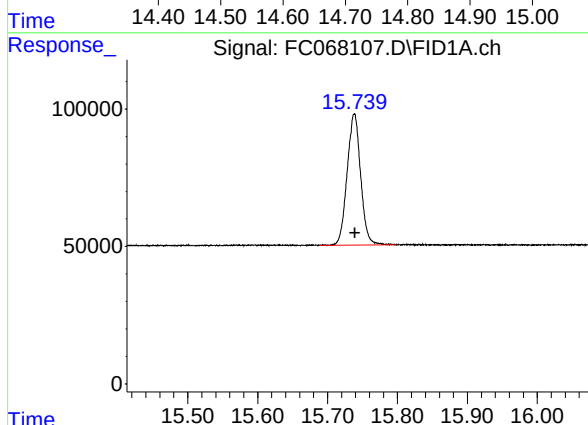
R.T.: 13.620 min
Delta R.T.: 0.000 min
Response: 653737
Conc: 4.90 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



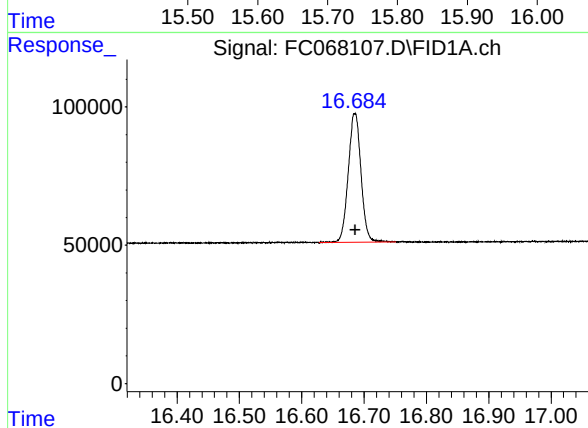
#14 n-Tetracosane (C24)

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



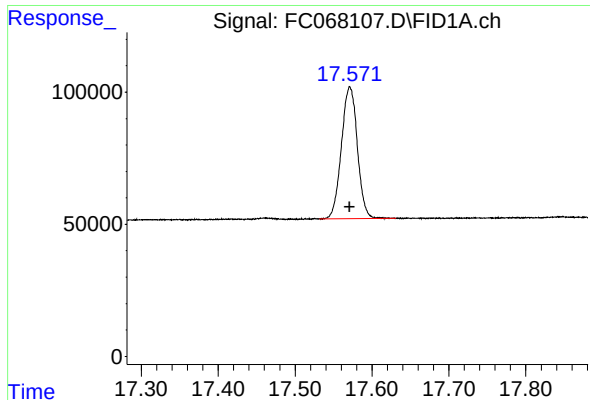
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

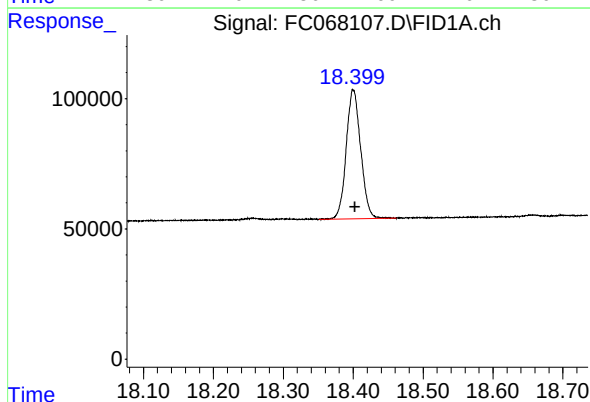
R.T.: 16.685 min
Delta R.T.: 0.000 min
Response: 660648
Conc: 5.16 ug/ml



#17 n-Tricontane (C30)

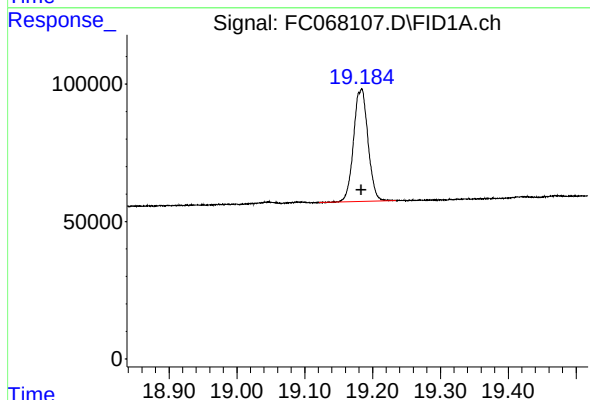
R.T.: 17.571 min
Delta R.T.: 0.000 min
Response: 717917
Conc: 5.46 ug/ml

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



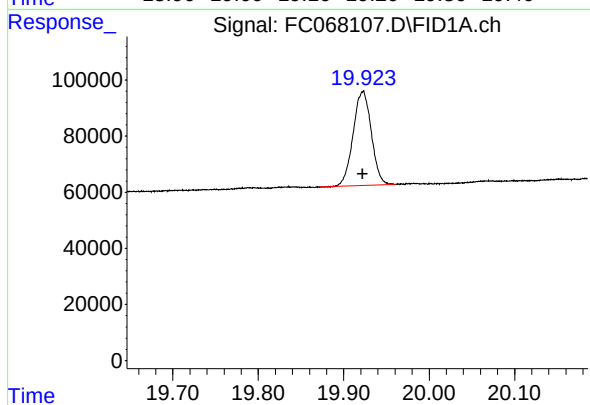
#18 n-Dotriacontane (C32)

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



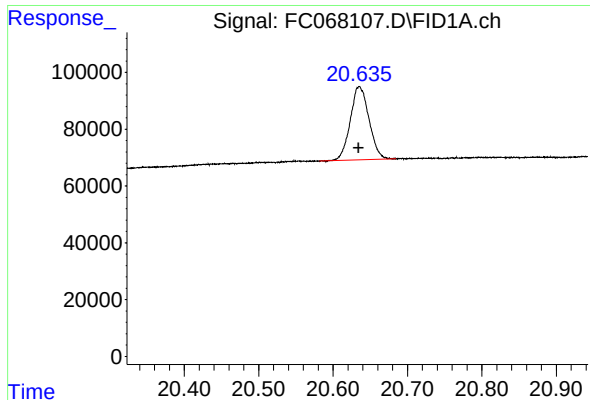
#19 n-Tetratriacontane (C34)

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



#20 n-Hexatriacontane (C36)

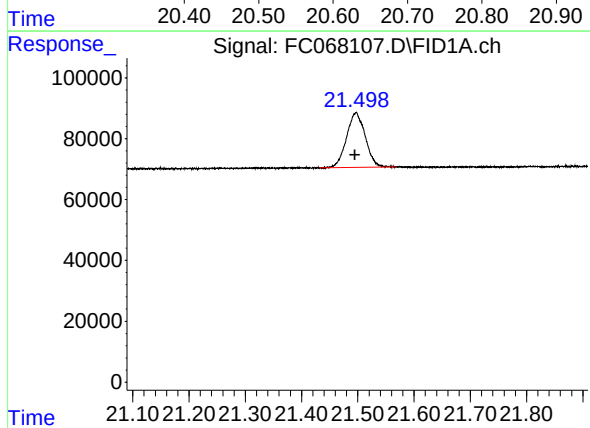
R.T.: 19.922 min
Delta R.T.: 0.000 min
Response: 497419
Conc: 5.30 ug/ml



#21 n-Octatriacontane (C38)

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

Instrument :
FID_C
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

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

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

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

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

Compound	R.T.	Response	Conc Units

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

(f)=RT Delta > 1/2 Window

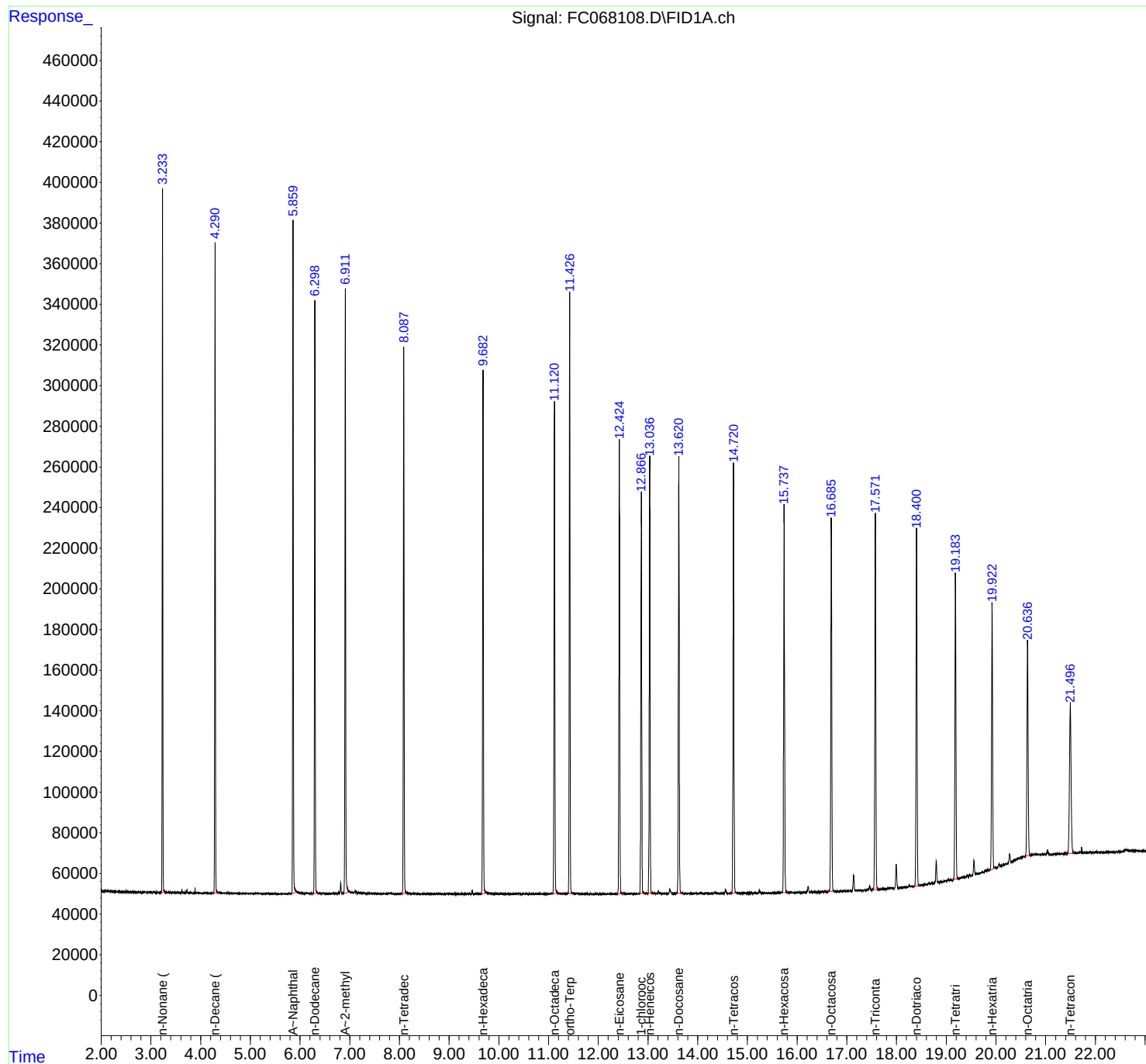
(m)=manual int.

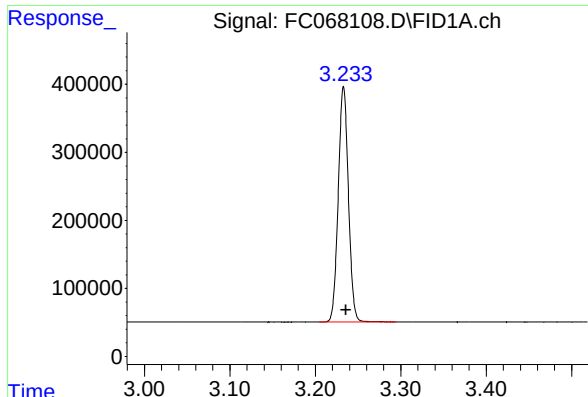
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC012425AL\
Data File : FC068108.D
Signal(s) : FID1A.ch
Acq On : 24 Jan 2025 11:46
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

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

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





#1 n-Nonane (C9)

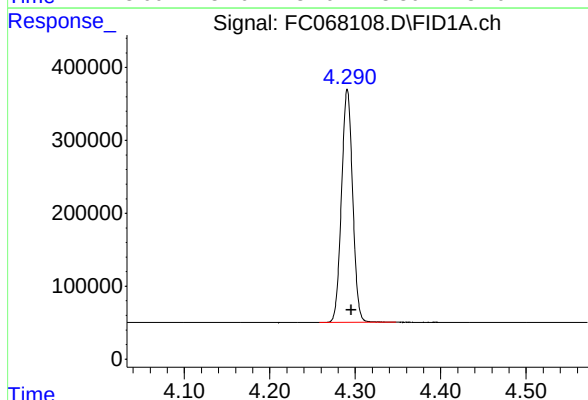
R.T.: 3.233 min
Delta R.T.: -0.003 min
Response: 2856850
Conc: 20.86 ug/ml

Instrument :

FID_C

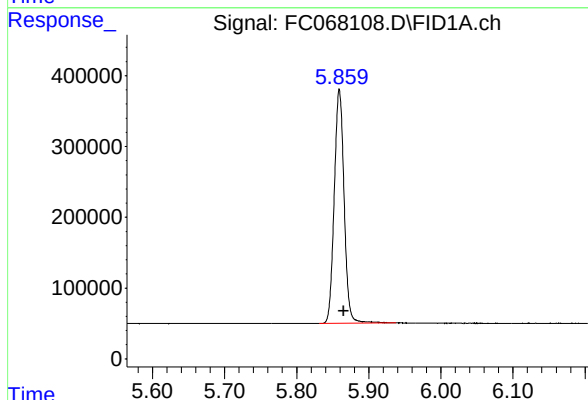
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



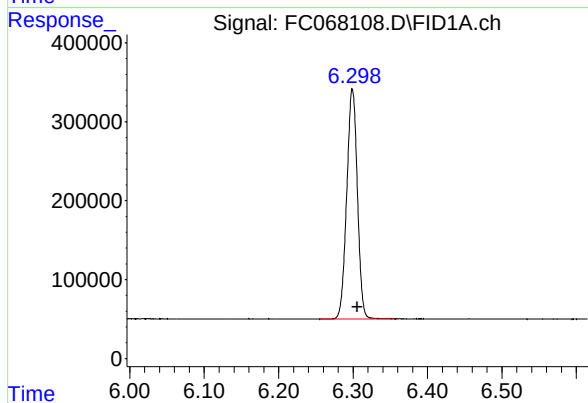
#2 n-Decane (C10)

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



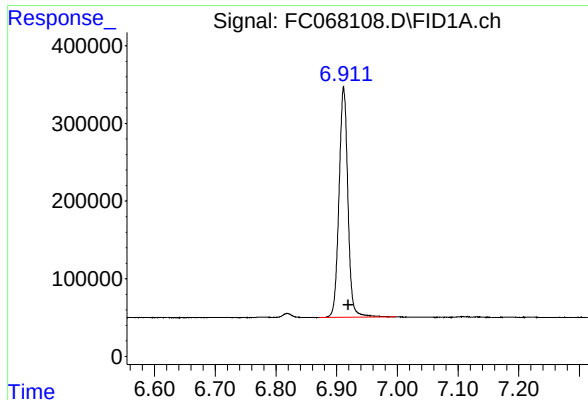
#3 A~Naphthalene (C11.7)

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



#4 n-Dodecane (C12)

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



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

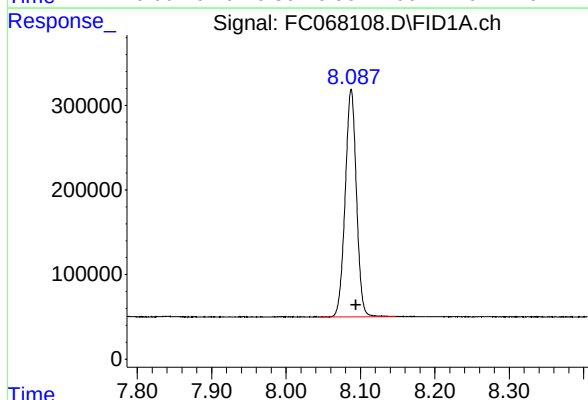
R.T.: 6.912 min
Delta R.T.: -0.008 min
Response: 3016045
Conc: 21.00 ug/ml

Instrument :

FID_C

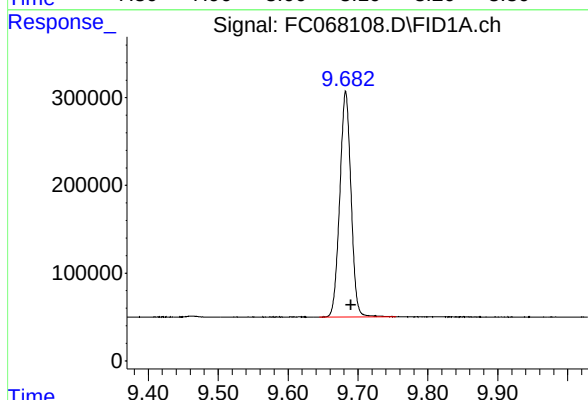
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



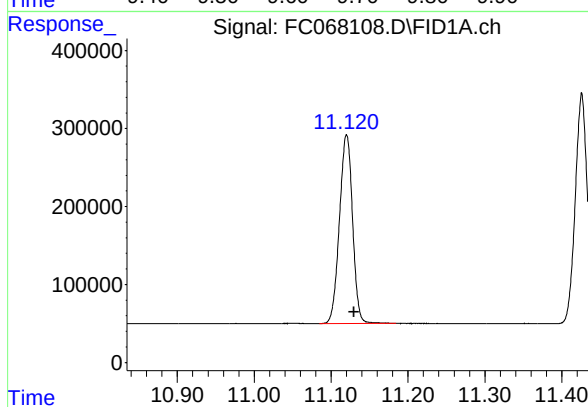
#6 n-Tetradecane (C14)

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



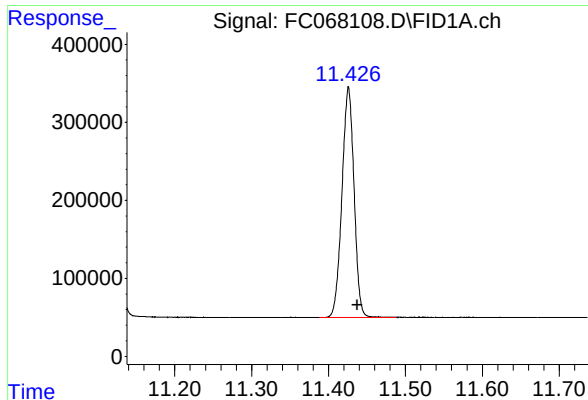
#7 n-Hexadecane (C16)

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



#8 n-Octadecane (C18)

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



#9 ortho-Terphenyl (SURR)

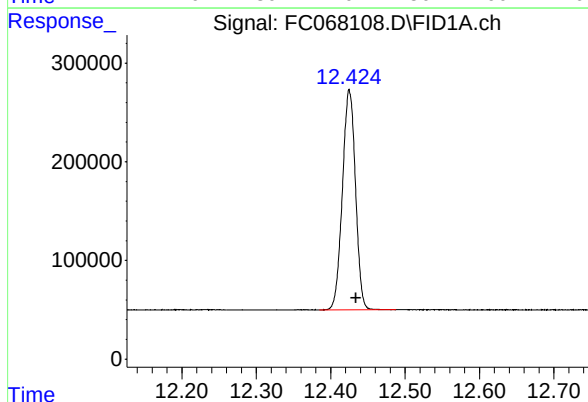
R.T.: 11.426 min
Delta R.T.: -0.011 min
Response: 3210149
Conc: 20.54 ug/ml

Instrument :

FID_C

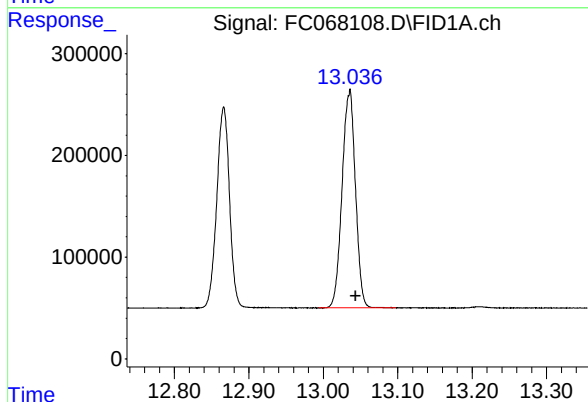
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



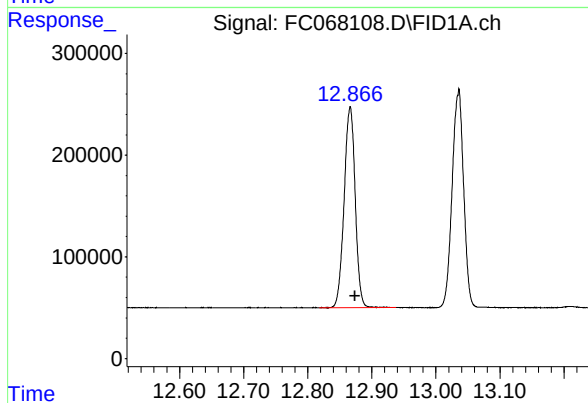
#10 n-Eicosane (C20)

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



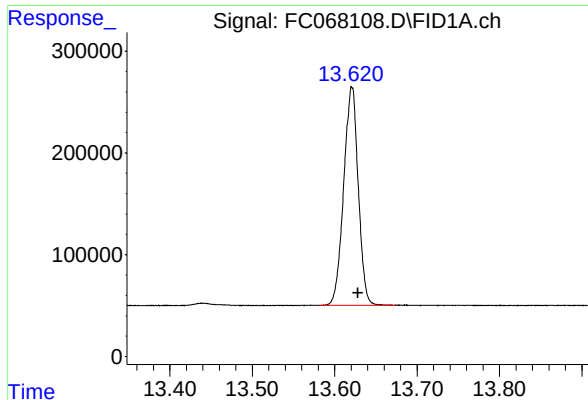
#11 n-Heneicosane (C21)

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



#12 1-chlorooctadecane (SURR)

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



#13 n-Docosane (C22)

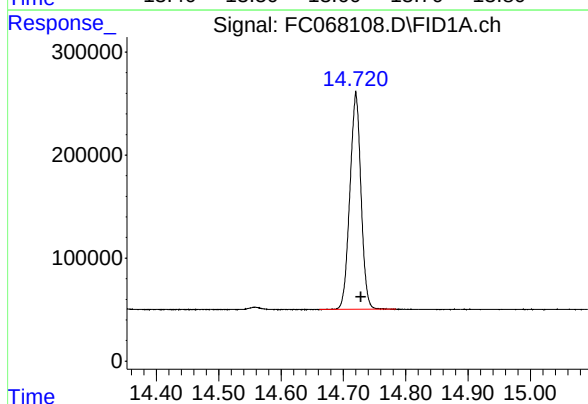
R.T.: 13.621 min
Delta R.T.: -0.008 min
Response: 2632473
Conc: 20.32 ug/ml

Instrument :

FID_C

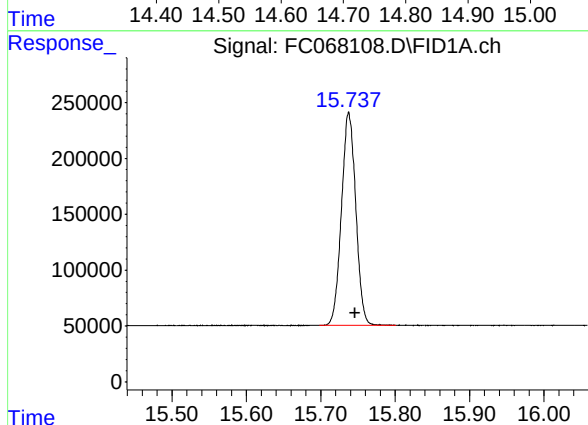
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



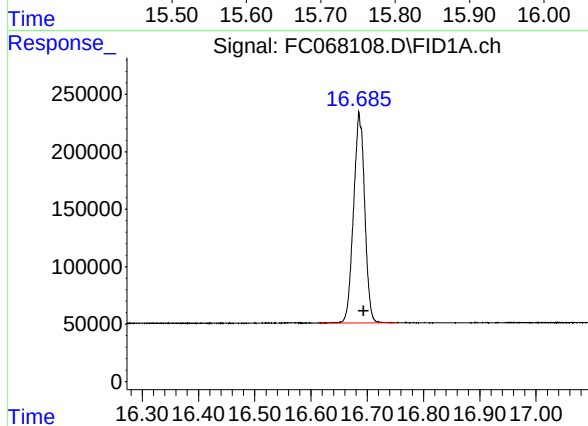
#14 n-Tetracosane (C24)

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



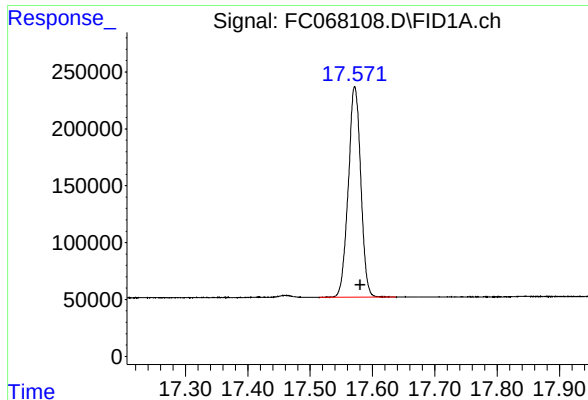
#15 n-Hexacosane (C26)

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



#16 n-Octacosane (C28)

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



#17 n-Tricontane (C30)

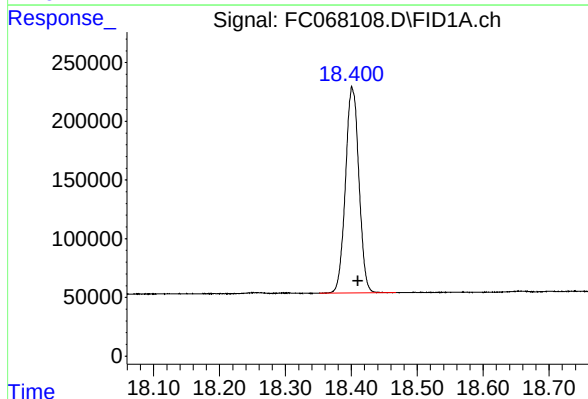
R.T.: 17.572 min
Delta R.T.: -0.009 min
Response: 2583068
Conc: 19.98 ug/ml

Instrument :

FID_C

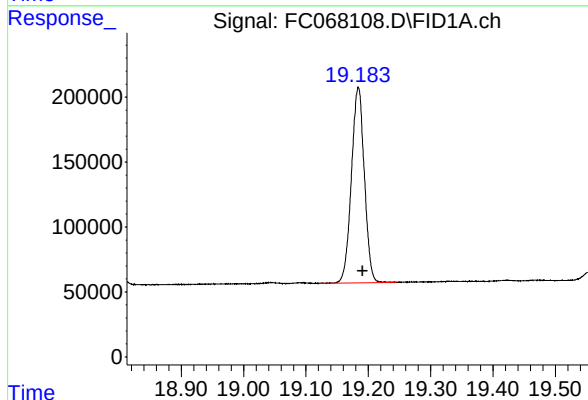
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



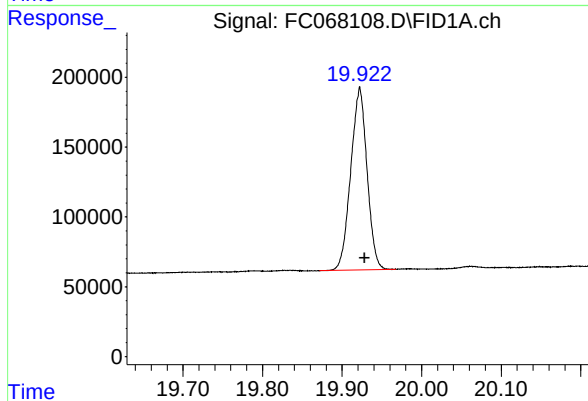
#18 n-Dotriacontane (C32)

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



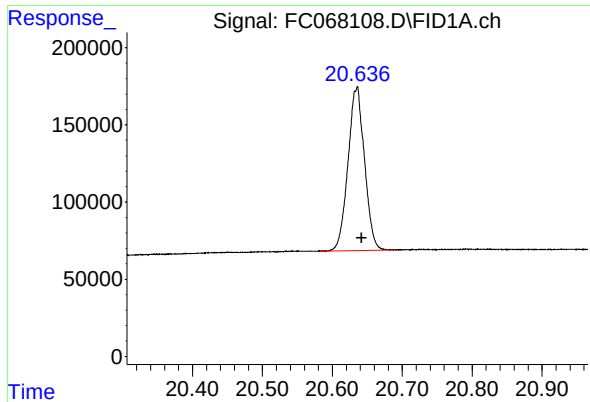
#19 n-Tetatriacontane (C34)

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



#20 n-Hexatriacontane (C36)

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



#21 n-Octatriacontane (C38)

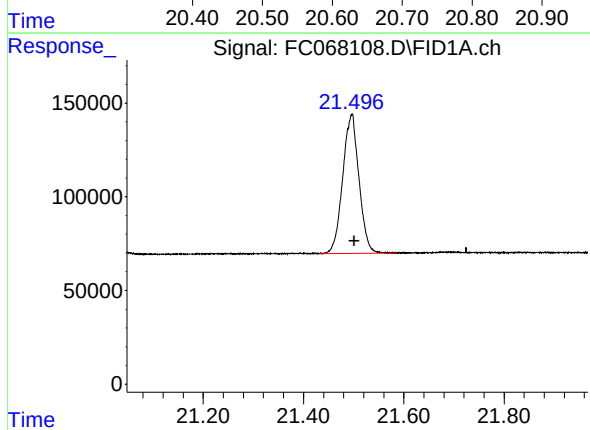
R.T.: 20.634 min
Delta R.T.: -0.008 min
Response: 1734577
Conc: 20.24 ug/ml

Instrument :

FID_C

ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

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

rteres

Area Percent Report

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

Integration File: autoint1.e

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

Signal : FID1A.ch

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

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

Continuing Calibration Report for SequenceID : FC020525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC068192.D

Aliphatic C9-C12	8486200.000	60.000	3.110	6.377	141436.667	138488.174	-2.129
Aliphatic C12-C16	5547848.000	40.000	6.378	9.761	138696.200	137713.071	-0.714
Aliphatic C16-C21	8097363.000	60.000	9.762	13.114	134956.050	135019.289	0.047
Aliphatic C21-C28	10470276.000	80.000	13.115	16.766	130878.450	127207.526	-2.886
Aliphatic C28-C40	13162033.000	120.000	16.767	21.570	109683.608	103638.860	-5.833
Aliphatic EPH	45763720.000	360.000	3.110	21.570	127121.444	123700.655	-2.765

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	05 Feb 2025 12:24
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068192.D	Misc:	
Instrument:	FID_C	ALS Vial:	3
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.110	6.377	8486200.000	60.000	ug/ml
Aliphatic C12-C16	6.378	9.761	5547848.000	40.000	ug/ml
Aliphatic C16-C21	9.762	13.114	8097363.000	60.000	ug/ml
Aliphatic C21-C28	13.115	16.766	10470276.000	80.000	ug/ml
Aliphatic C28-C40	16.767	21.570	13162033.000	120.000	ug/ml
Aliphatic EPH	3.110	21.570	45763720.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068192.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 12:24
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:11:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.403	3119950	19.966 ug/ml
Spiked Amount 50.000		Recovery =	39.93%
12) S 1-chlorooctadecane (S...	12.845	2303975	20.034 ug/ml
Spiked Amount 50.000		Recovery =	40.07%
Target Compounds			
1) T n-Nonane (C9)	3.210	2775024	20.265 ug/ml
2) T n-Decane (C10)	4.268	2860338	20.603 ug/ml
3) T A~Naphthalene (C11.7)	5.835	3127355	20.832 ug/ml
4) T n-Dodecane (C12)	6.277	2850838	20.407 ug/ml
5) T A~2-methylnaphthalene...	6.888	2953357	20.562 ug/ml
6) T n-Tetradecane (C14)	8.065	2757764	20.207 ug/ml
7) T n-Hexadecane (C16)	9.661	2790084	20.080 ug/ml
8) T n-Octadecane (C18)	11.098	2796089	19.984 ug/ml
10) T n-Eicosane (C20)	12.403	2679209	20.024 ug/ml
11) T n-Heneicosane (C21)	13.014	2622065	19.964 ug/ml
13) T n-Docosane (C22)	13.599	2622247	20.244 ug/mlm
14) T n-Tetracosane (C24)	14.699	2633919	20.516 ug/mlm
15) T n-Hexacosane (C26)	15.718	2606556	20.714 ug/ml
16) T n-Octacosane (C28)	16.666	2607554	20.848 ug/ml
17) T n-Tricontane (C30)	17.552	2724319	21.077 ug/ml
18) T n-Dotriacontane (C32)	18.382	2644135	21.151 ug/ml
19) T n-Tetratriacontane (C34)	19.164	2287235	21.085 ug/ml
20) T n-Hexatriacontane (C36)	19.903	1946785	21.036 ug/mlm
21) T n-Octatriacontane (C38)	20.614	1819500	21.234 ug/mlm
22) T n-Tetracontane (C40)	21.470	1740059	21.520 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068192.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 12:24
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

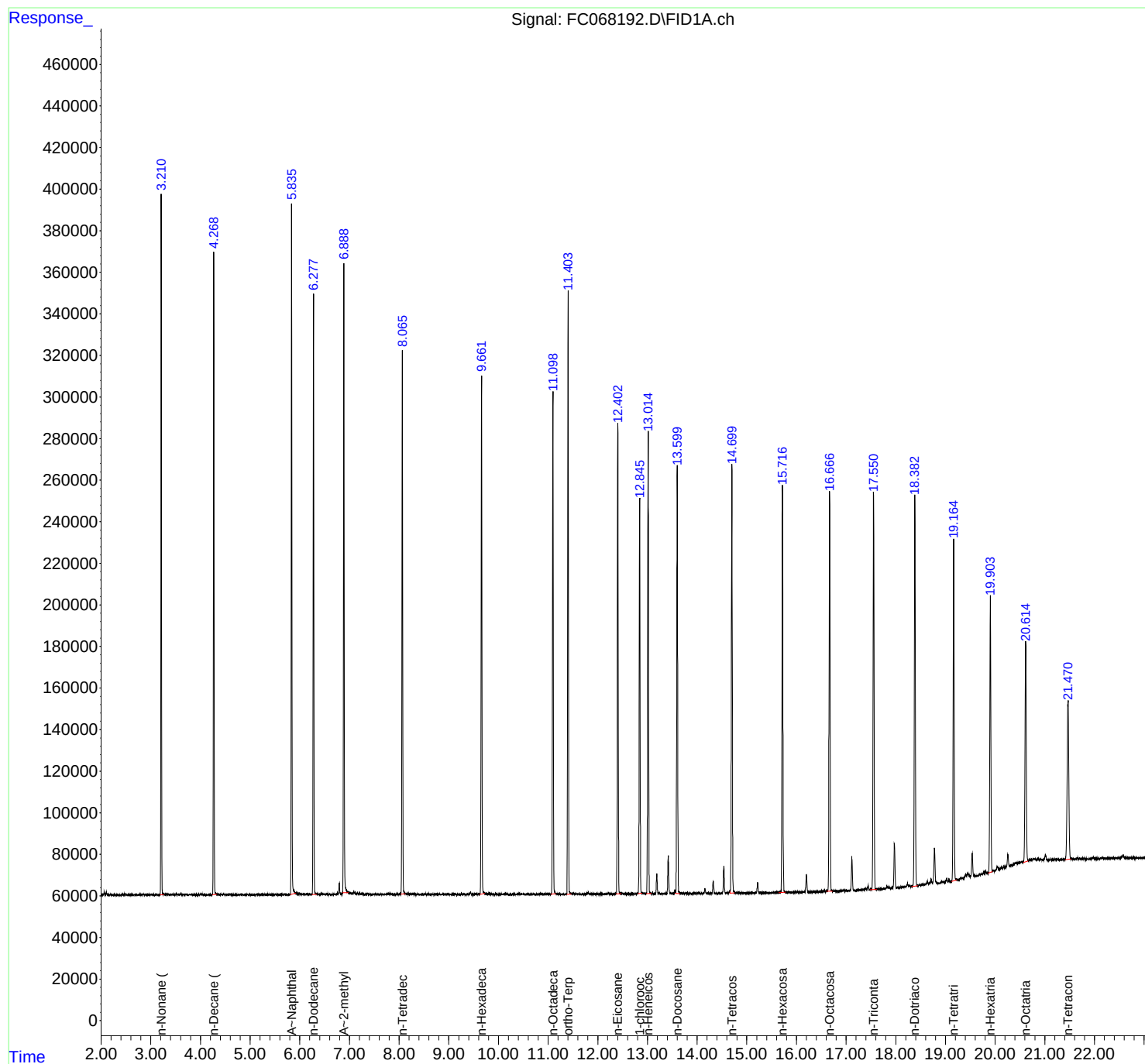
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

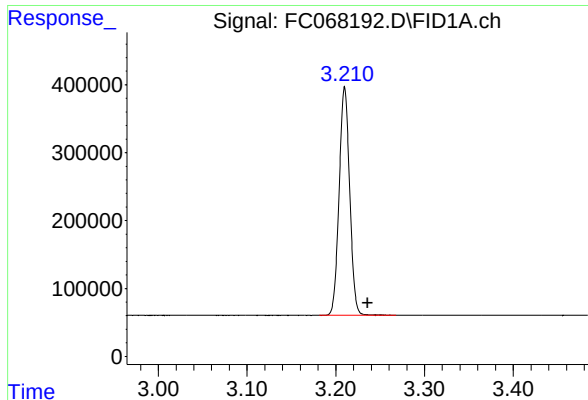
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:11:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





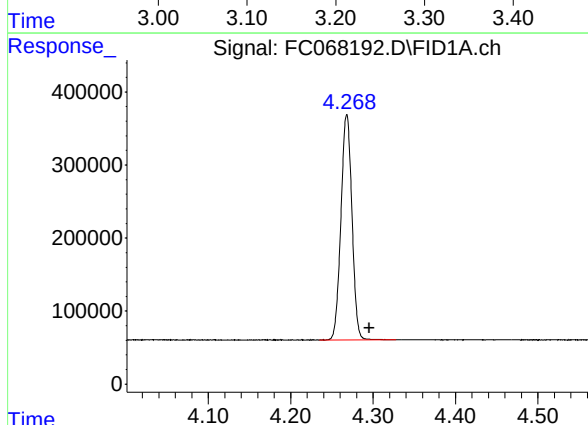
#1 n-Nonane (C9)

R.T.: 3.210 min
Delta R.T.: -0.026 min
Response: 2775024
Conc: 20.27 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

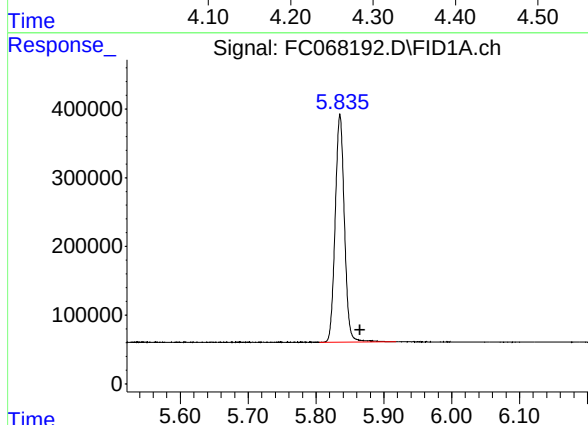
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



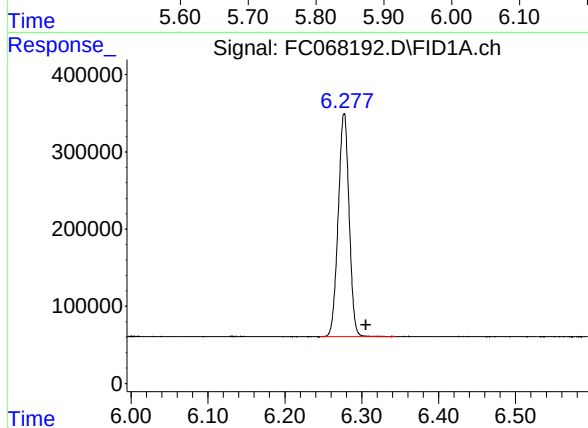
#2 n-Decane (C10)

R.T.: 4.268 min
Delta R.T.: -0.027 min
Response: 2860338
Conc: 20.60 ug/ml



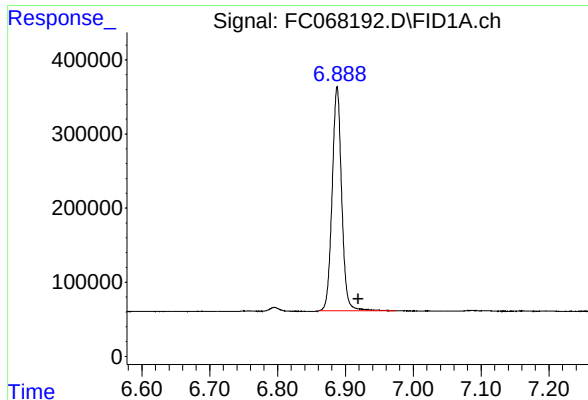
#3 A~Naphthalene (C11.7)

R.T.: 5.835 min
Delta R.T.: -0.030 min
Response: 3127355
Conc: 20.83 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.277 min
Delta R.T.: -0.028 min
Response: 2850838
Conc: 20.41 ug/ml



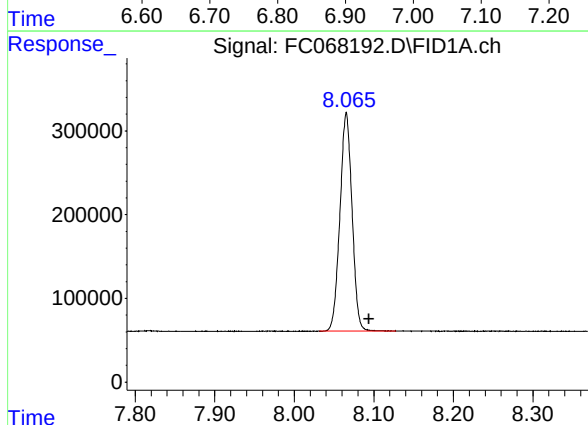
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.888 min
Delta R.T.: -0.032 min
Response: 2953357
Conc: 20.56 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

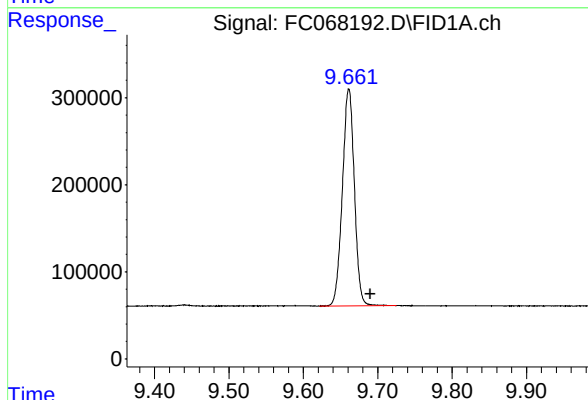
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



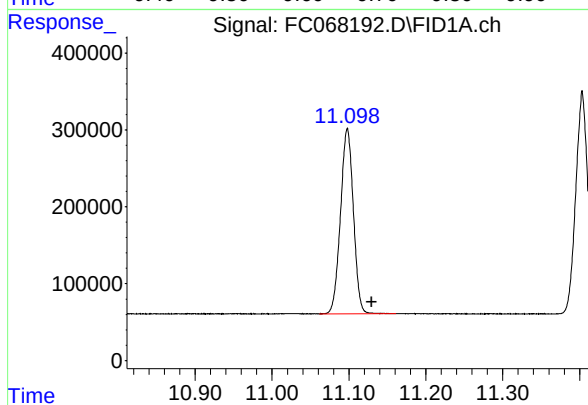
#6 n-Tetradecane (C14)

R.T.: 8.065 min
Delta R.T.: -0.029 min
Response: 2757764
Conc: 20.21 ug/ml



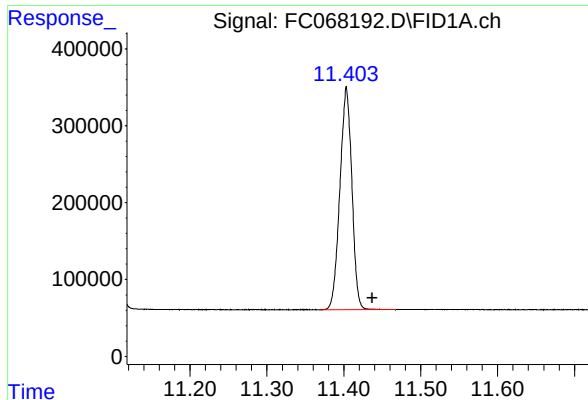
#7 n-Hexadecane (C16)

R.T.: 9.661 min
Delta R.T.: -0.029 min
Response: 2790084
Conc: 20.08 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.098 min
Delta R.T.: -0.032 min
Response: 2796089
Conc: 19.98 ug/ml



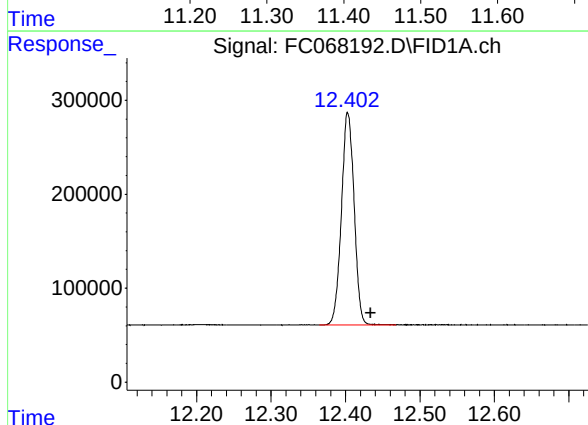
#9 ortho-Terphenyl (SURR)

R.T.: 11.403 min
Delta R.T.: -0.034 min
Response: 3119950
Conc: 19.97 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

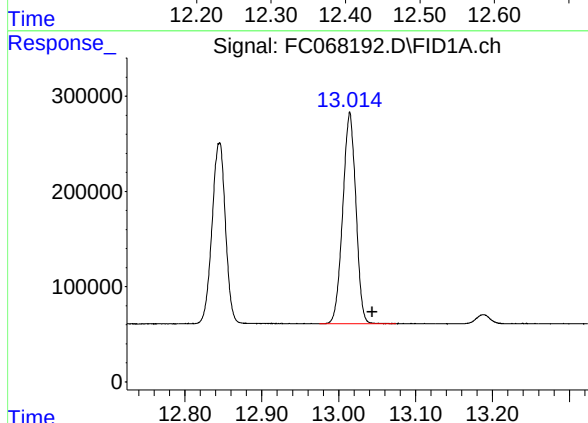
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



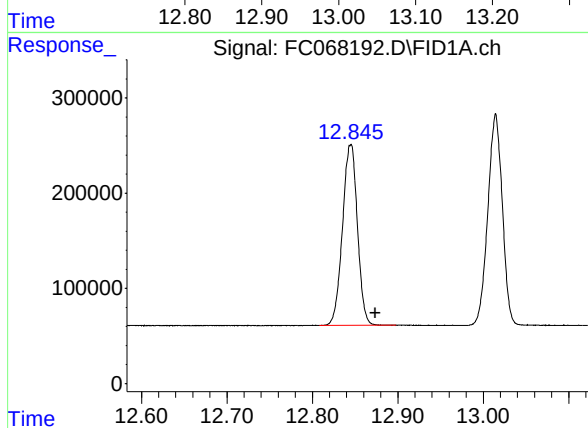
#10 n-Eicosane (C20)

R.T.: 12.403 min
Delta R.T.: -0.030 min
Response: 2679209
Conc: 20.02 ug/ml



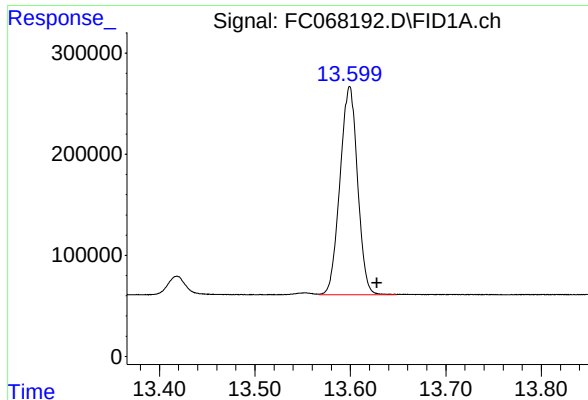
#11 n-Heneicosane (C21)

R.T.: 13.014 min
Delta R.T.: -0.029 min
Response: 2622065
Conc: 19.96 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.845 min
Delta R.T.: -0.029 min
Response: 2303975
Conc: 20.03 ug/ml



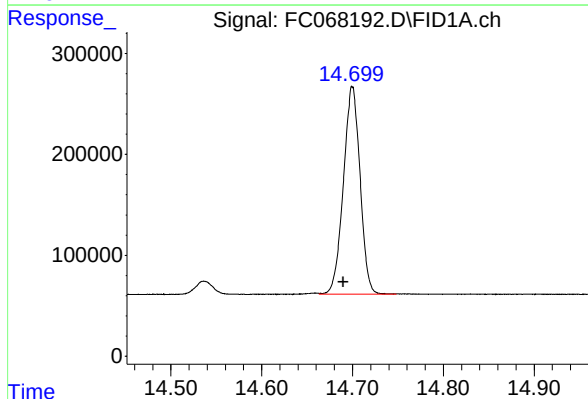
#13 n-Docosane (C22)

R.T.: 13.599 min
Delta R.T.: -0.029 min
Response: 2622247
Conc: 20.24 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

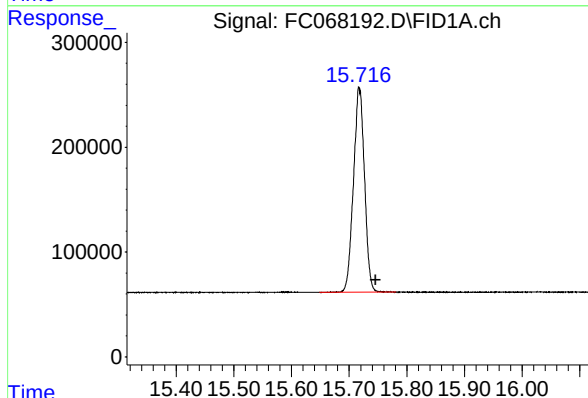
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



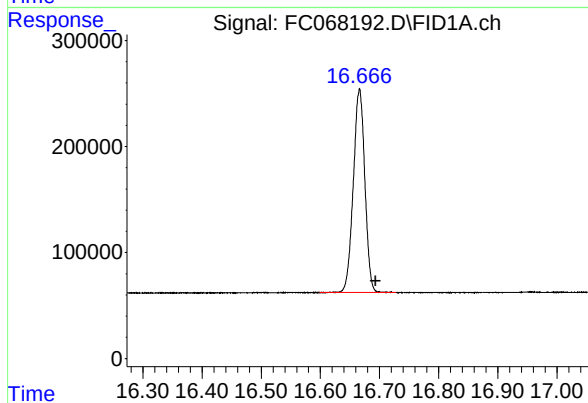
#14 n-Tetracosane (C24)

R.T.: 14.699 min
Delta R.T.: 0.009 min
Response: 2633919
Conc: 20.52 ug/ml



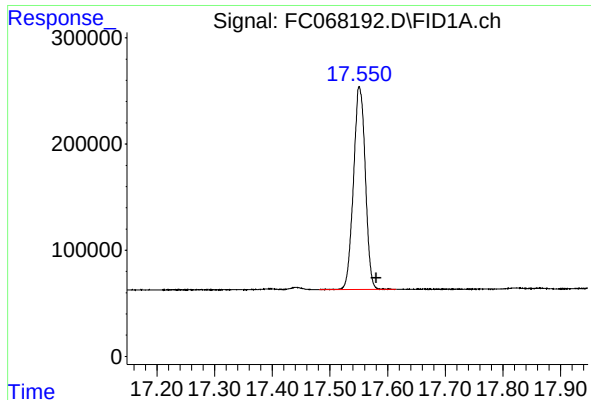
#15 n-Hexacosane (C26)

R.T.: 15.718 min
Delta R.T.: -0.028 min
Response: 2606556
Conc: 20.71 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.666 min
Delta R.T.: -0.028 min
Response: 2607554
Conc: 20.85 ug/ml



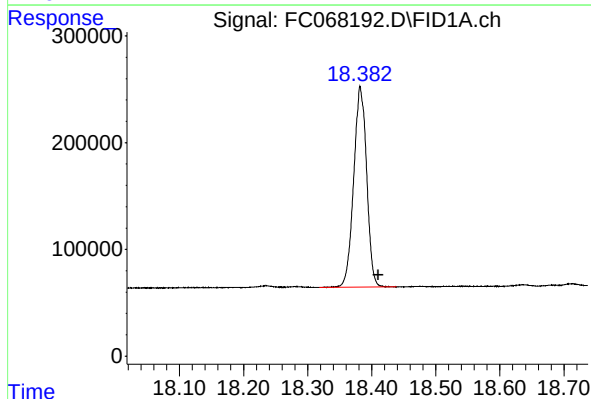
#17 n-Tricontane (C30)

R.T.: 17.552 min
Delta R.T.: -0.029 min
Response: 2724319
Conc: 21.08 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

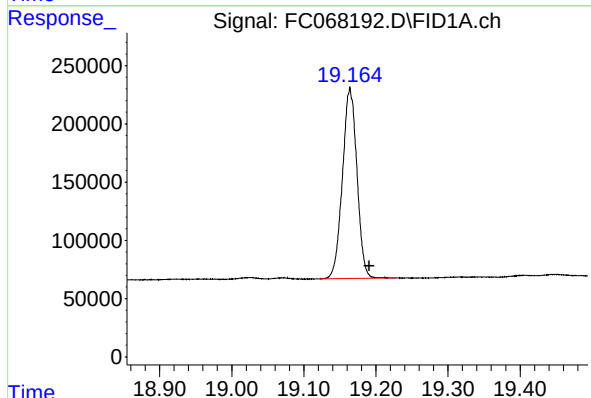
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



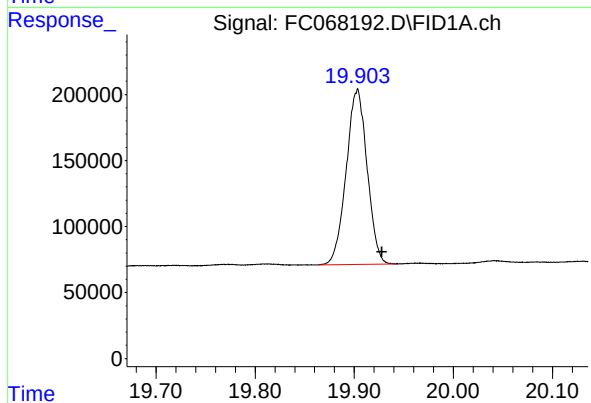
#18 n-Dotriacontane (C32)

R.T.: 18.382 min
Delta R.T.: -0.028 min
Response: 2644135
Conc: 21.15 ug/ml



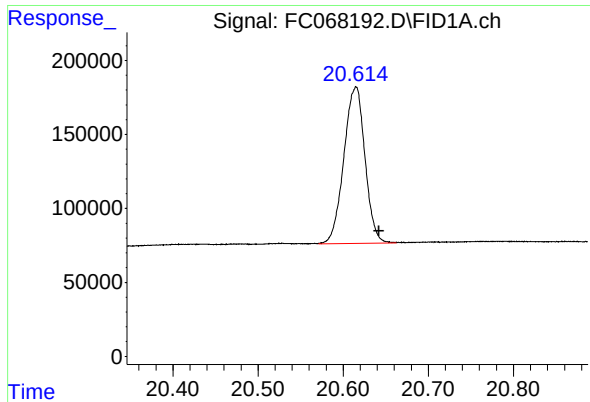
#19 n-Tetratriacontane (C34)

R.T.: 19.164 min
Delta R.T.: -0.027 min
Response: 2287235
Conc: 21.09 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.903 min
Delta R.T.: -0.025 min
Response: 1946785
Conc: 21.04 ug/ml m



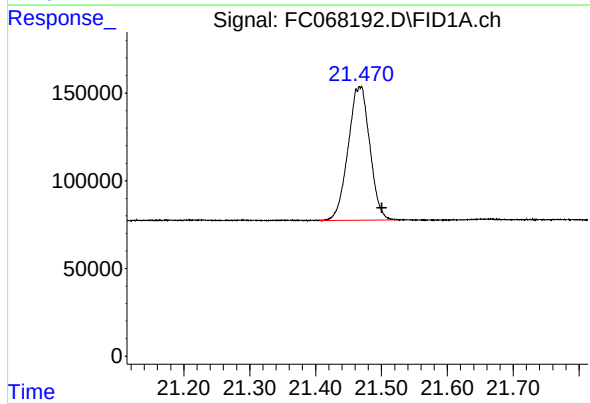
#21 n-Octatriacontane (C38)

R.T.: 20.614 min
Delta R.T.: -0.028 min
Response: 1819500
Conc: 21.23 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#22 n-Tetracontane (C40)

R.T.: 21.470 min
Delta R.T.: -0.032 min
Response: 1740059
Conc: 21.52 ug/ml m

rteres

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

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068192.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 12:24
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.210	3.181	3.268	BB	333348	2775024	88.73%	4.868%
2	4.268	4.235	4.328	BB	308840	2860338	91.46%	5.018%
3	5.835	5.805	5.918	BB	329530	3127355	100.00%	5.486%
4	6.277	6.245	6.345	BB	290962	2850838	91.16%	5.001%
5	6.888	6.861	6.975	BB	301477	2953357	94.44%	5.181%
6	8.065	8.031	8.128	BB	258244	2757764	88.18%	4.838%
7	9.661	9.621	9.725	BB	249733	2790084	89.22%	4.895%
8	11.098	11.061	11.161	BB	240741	2796089	89.41%	4.905%
9	11.403	11.368	11.468	BB	286463	3119950	99.76%	5.473%
10	12.403	12.365	12.468	BB	224452	2679209	85.67%	4.700%
11	12.845	12.808	12.898	BB	190504	2303975	73.67%	4.042%
12	13.014	12.975	13.075	BB	221075	2622065	83.84%	4.600%
13	13.599	13.521	13.665	BB	203299	2637091	84.32%	4.626%
14	14.700	14.618	14.765	BB	205478	2637678	84.34%	4.627%
15	15.718	15.648	15.781	BB	194379	2606556	83.35%	4.573%
16	16.666	16.598	16.728	BB	190934	2607554	83.38%	4.574%
17	17.552	17.481	17.615	BB	190912	2724319	87.11%	4.779%
18	18.382	18.318	18.438	BB	187009	2644135	84.55%	4.638%
19	19.164	19.121	19.228	BB	161697	2287235	73.14%	4.012%
20	19.903	19.871	19.941	BB	131901	1922272	61.47%	3.372%
21	20.614	20.581	20.675	BB	104103	1751755	56.01%	3.073%
22	21.467	21.431	21.541	BB	72484	1549656	49.55%	2.718%
Sum of corrected areas:						57004298		

Aliphatic EPH 012425.M Thu Feb 06 04:37:38 2025

Continuing Calibration Report for SequenceID : FC020525AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV

File ID : FC068204.D

Aliphatic C9-C12	8760040.000	60.000	3.110	6.377	146000.667	138488.174	-5.425
Aliphatic C12-C16	5699246.000	40.000	6.378	9.761	142481.150	137713.071	-3.462
Aliphatic C16-C21	8210418.000	60.000	9.762	13.114	136840.300	135019.289	-1.349
Aliphatic C21-C28	10240163.000	80.000	13.115	16.766	128002.038	127207.526	-0.625
Aliphatic C28-C40	12674624.000	120.000	16.767	21.570	105621.867	103638.860	-1.913
Aliphatic EPH	45584491.000	360.000	3.110	21.570	126623.586	123700.655	-2.363

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	05 Feb 2025 20:48
Client Sample ID:		Operator:	YP/AJ
Data file:	FC068204.D	Misc:	
Instrument:	FID_C	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.110	6.377	8760040.000	60.000	ug/ml
Aliphatic C12-C16	6.378	9.761	5699246.000	40.000	ug/ml
Aliphatic C16-C21	9.762	13.114	8210418.000	60.000	ug/ml
Aliphatic C21-C28	13.115	16.766	10240163.000	80.000	ug/ml
Aliphatic C28-C40	16.767	21.570	12674624.000	120.000	ug/ml
Aliphatic EPH	3.110	21.570	45584491.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068204.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 20:48
 Operator : YP/AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:15:49 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.405	3132699	20.047 ug/ml
Spiked Amount 50.000		Recovery =	40.09%
12) S 1-chlorooctadecane (S...	12.846	2329568	20.257 ug/ml
Spiked Amount 50.000		Recovery =	40.51%
Target Compounds			
1) T n-Nonane (C9)	3.211	2891515	21.116 ug/ml
2) T n-Decane (C10)	4.269	2938719	21.167 ug/ml
3) T A~Naphthalene (C11.7)	5.837	3212215	21.397 ug/ml
4) T n-Dodecane (C12)	6.278	2929806	20.972 ug/ml
5) T A~2-methylnaphthalene...	6.889	3047950	21.220 ug/ml
6) T n-Tetradecane (C14)	8.066	2838228	20.796 ug/ml
7) T n-Hexadecane (C16)	9.662	2861018	20.591 ug/ml
8) T n-Octadecane (C18)	11.100	2851041	20.377 ug/ml
10) T n-Eicosane (C20)	12.406	2710717	20.259 ug/ml
11) T n-Heneicosane (C21)	13.016	2648660	20.166 ug/ml
13) T n-Docosane (C22)	13.600	2624856	20.264 ug/mlm
14) T n-Tetracosane (C24)	14.701	2594061	20.205 ug/ml
15) T n-Hexacosane (C26)	15.720	2536221	20.155 ug/ml
16) T n-Octacosane (C28)	16.668	2485025	19.869 ug/ml
17) T n-Tricontane (C30)	17.553	2520724	19.502 ug/ml
18) T n-Dotriacontane (C32)	18.386	2431577	19.451 ug/ml
19) T n-Tetratriacontane (C34)	19.167	2151922	19.838 ug/ml
20) T n-Hexatriacontane (C36)	19.905	1874092	20.251 ug/ml
21) T n-Octatriacontane (C38)	20.618	1835250	21.418 ug/mlm
22) T n-Tetracontane (C40)	21.469	1861059	23.016 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068204.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 20:48
Operator : YP/AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

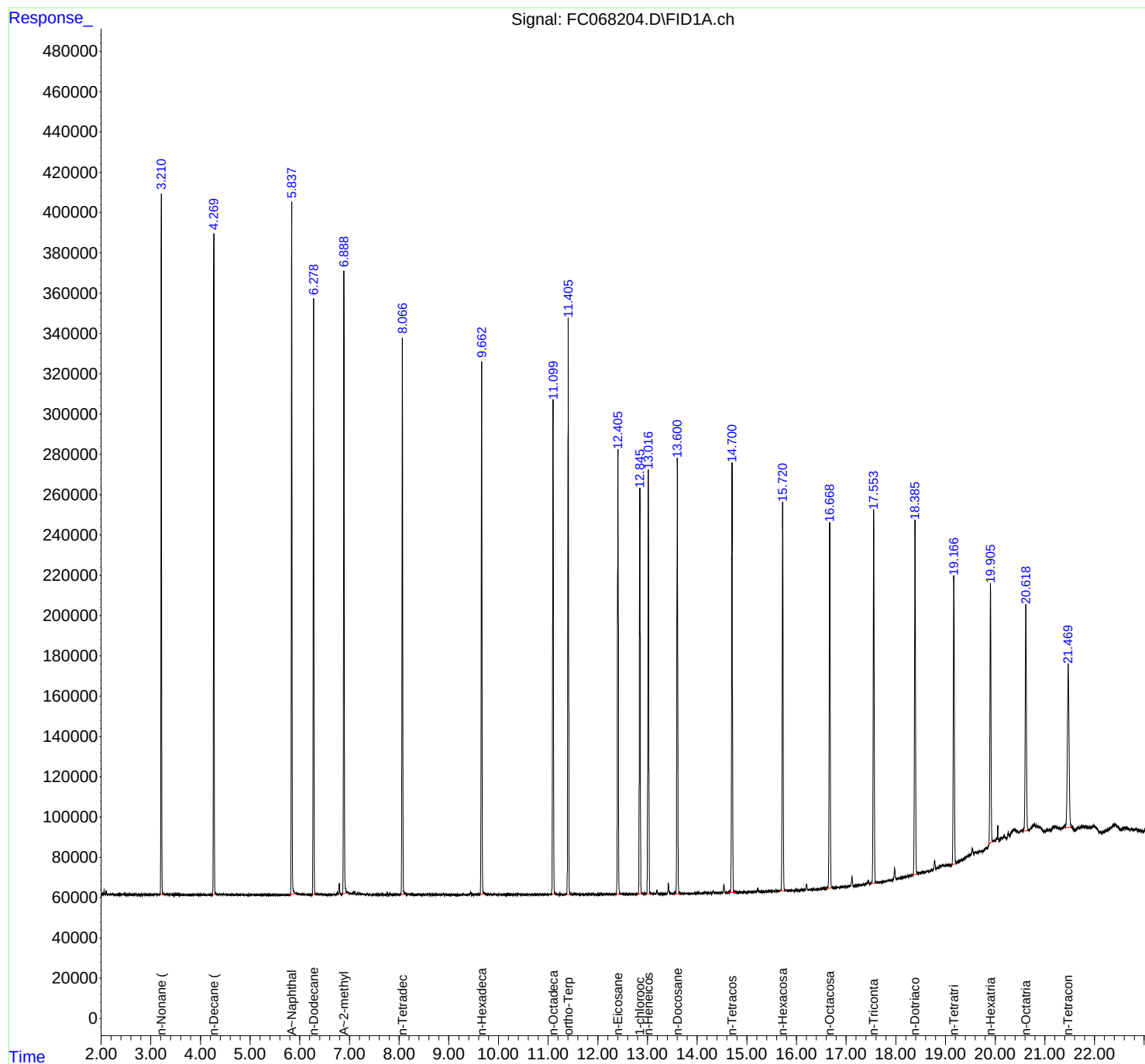
Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

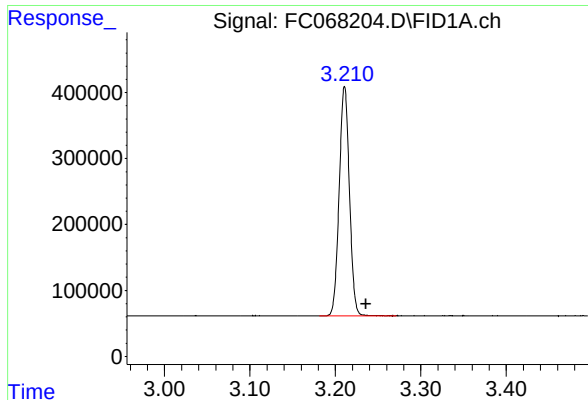
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:15:49 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





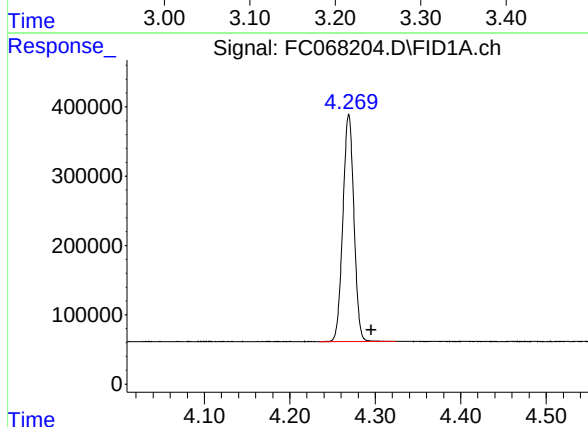
#1 n-Nonane (C9)

R.T.: 3.211 min
Delta R.T.: -0.025 min
Response: 2891515
Conc: 21.12 ug/ml

Instrument : FID_C
ClientSampleId : 20 PPM ALIPHATIC HC STD

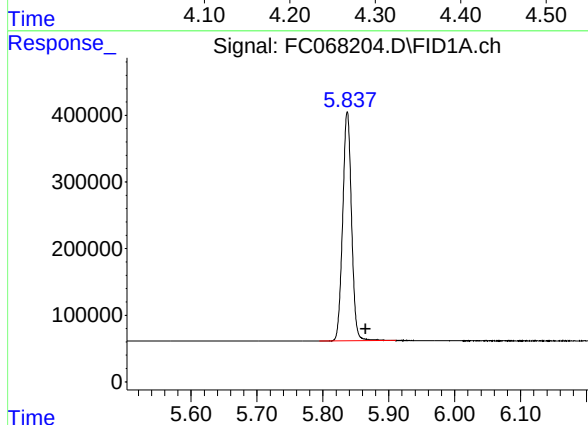
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



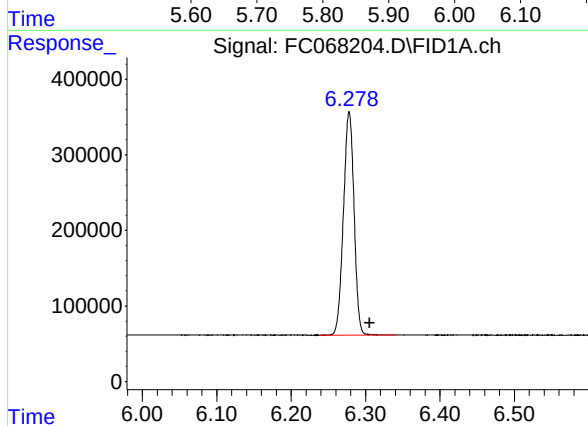
#2 n-Decane (C10)

R.T.: 4.269 min
Delta R.T.: -0.026 min
Response: 2938719
Conc: 21.17 ug/ml



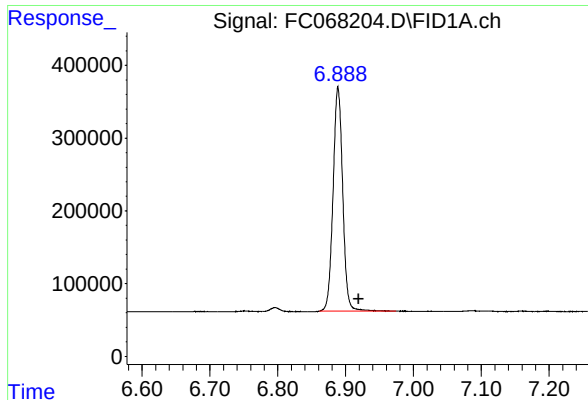
#3 A~Naphthalene (C11.7)

R.T.: 5.837 min
Delta R.T.: -0.028 min
Response: 3212215
Conc: 21.40 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.278 min
Delta R.T.: -0.028 min
Response: 2929806
Conc: 20.97 ug/ml



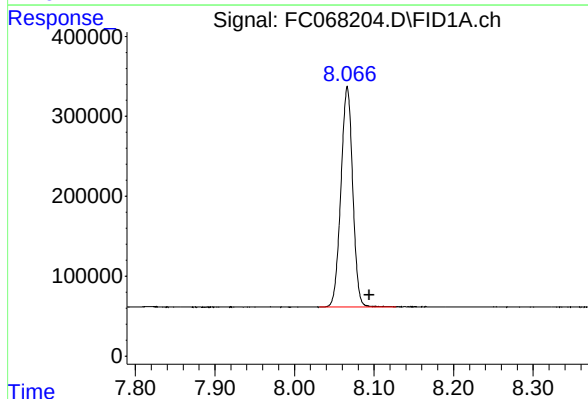
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.889 min
Delta R.T.: -0.030 min
Response: 3047950
Conc: 21.22 ug/ml

Instrument : FID_C
ClientSampleId : 20 PPM ALIPHATIC HC STD

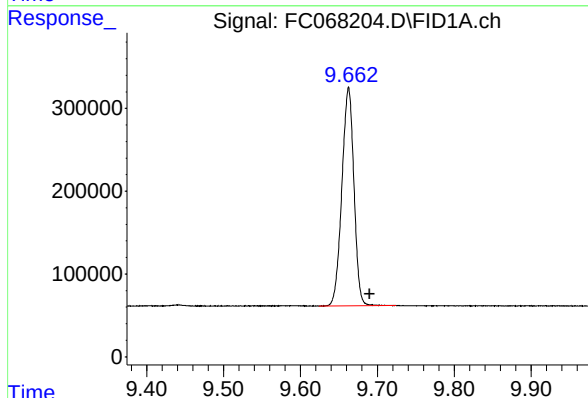
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



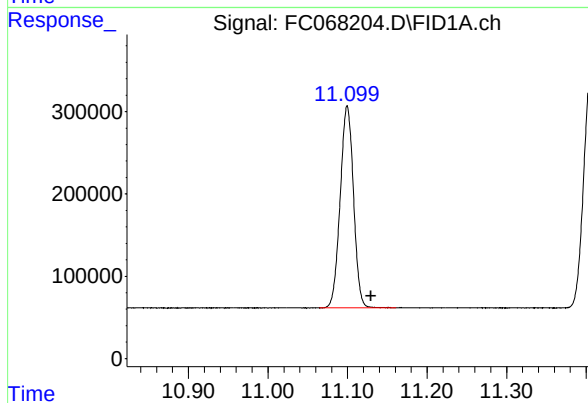
#6 n-Tetradecane (C14)

R.T.: 8.066 min
Delta R.T.: -0.028 min
Response: 2838228
Conc: 20.80 ug/ml



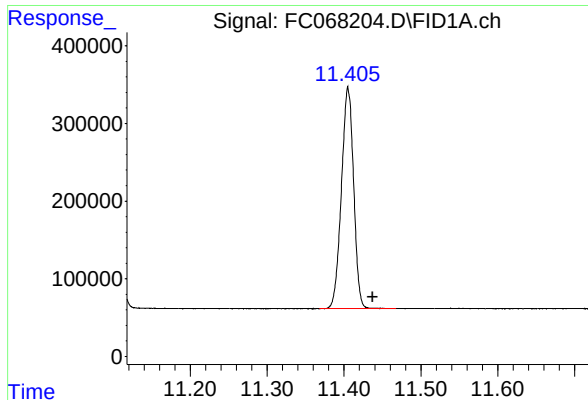
#7 n-Hexadecane (C16)

R.T.: 9.662 min
Delta R.T.: -0.028 min
Response: 2861018
Conc: 20.59 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.100 min
Delta R.T.: -0.030 min
Response: 2851041
Conc: 20.38 ug/ml



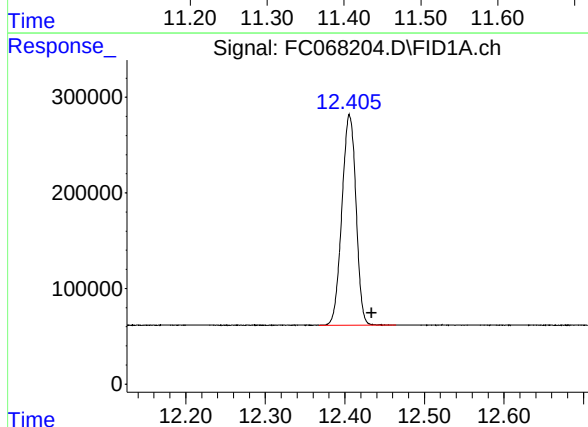
#9 ortho-Terphenyl (SURR)

R.T.: 11.405 min
Delta R.T.: -0.032 min
Response: 3132699
Conc: 20.05 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

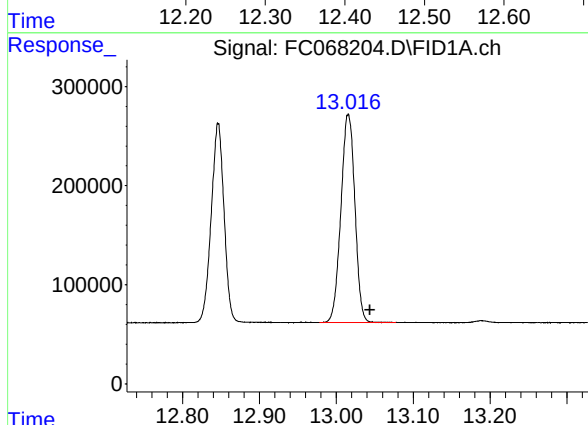
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



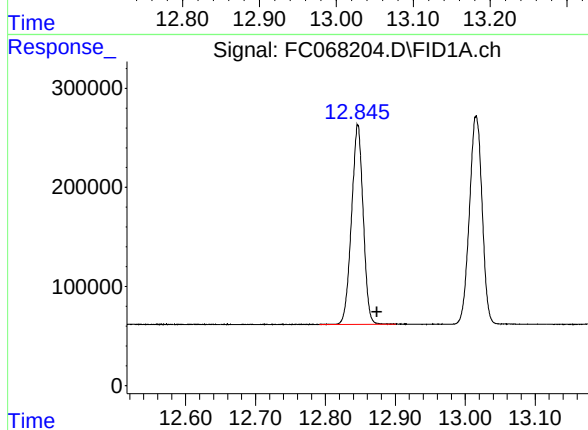
#10 n-Eicosane (C20)

R.T.: 12.406 min
Delta R.T.: -0.028 min
Response: 2710717
Conc: 20.26 ug/ml



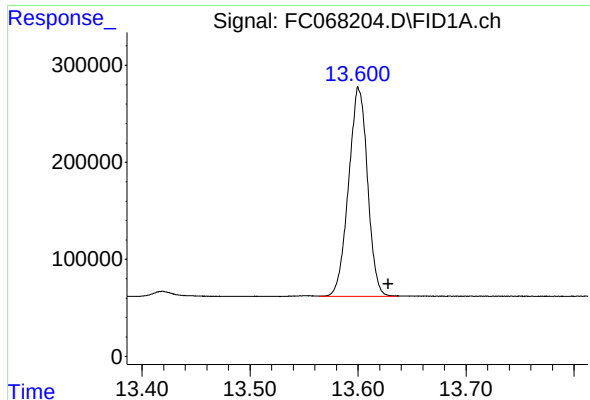
#11 n-Heneicosane (C21)

R.T.: 13.016 min
Delta R.T.: -0.028 min
Response: 2648660
Conc: 20.17 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.846 min
Delta R.T.: -0.028 min
Response: 2329568
Conc: 20.26 ug/ml



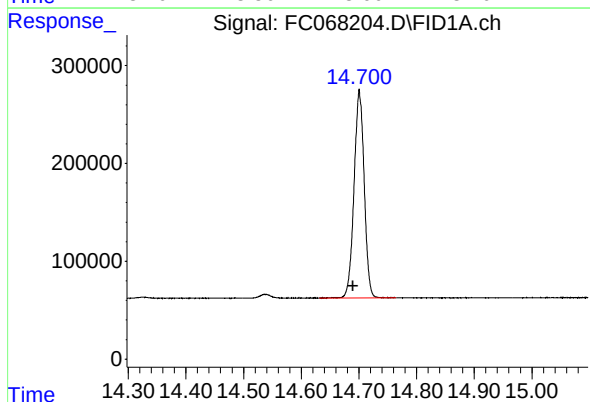
#13 n-Docosane (C22)

R.T.: 13.600 min
Delta R.T.: -0.028 min
Response: 2624856
Conc: 20.26 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

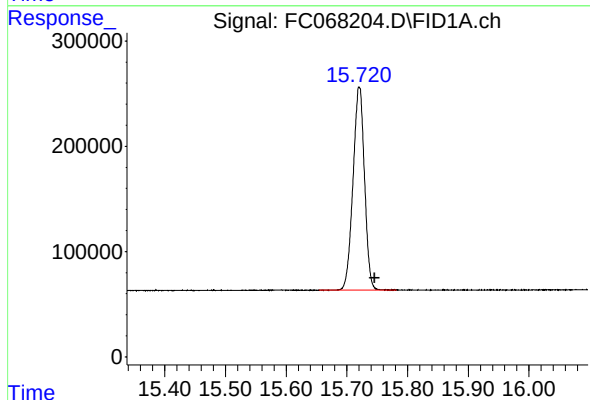
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



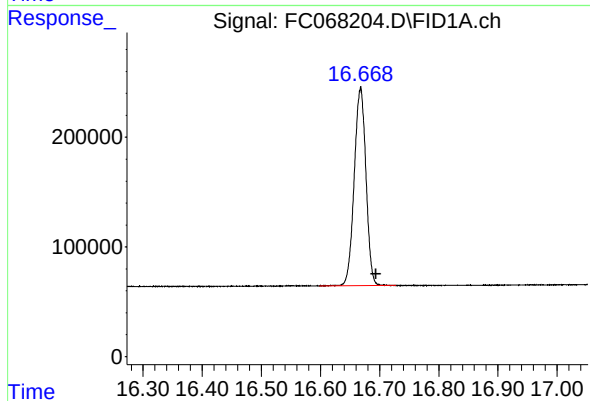
#14 n-Tetracosane (C24)

R.T.: 14.701 min
Delta R.T.: 0.011 min
Response: 2594061
Conc: 20.21 ug/ml



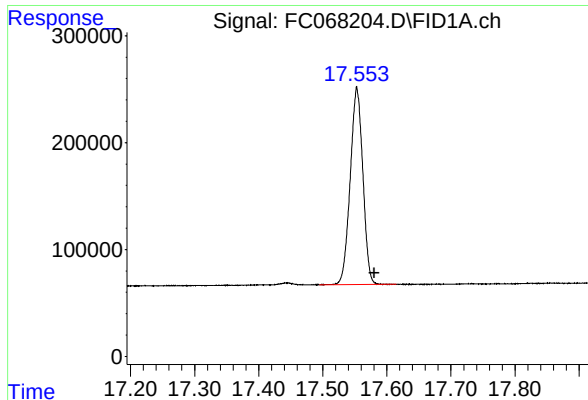
#15 n-Hexacosane (C26)

R.T.: 15.720 min
Delta R.T.: -0.026 min
Response: 2536221
Conc: 20.15 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.668 min
Delta R.T.: -0.026 min
Response: 2485025
Conc: 19.87 ug/ml



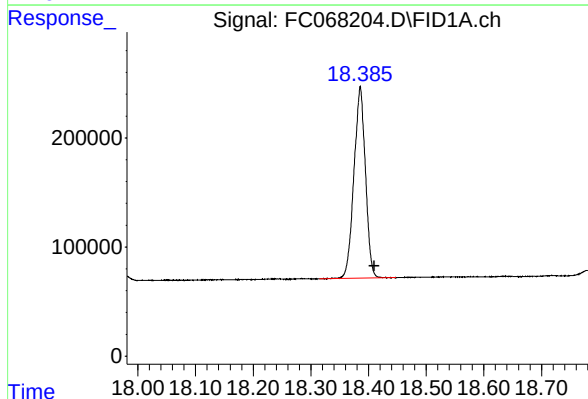
#17 n-Tricontane (C30)

R.T.: 17.553 min
 Delta R.T.: -0.027 min
 Response: 2520724
 Conc: 19.50 ug/ml

Instrument : FID_C
 ClientSampleId : 20 PPM ALIPHATIC HC STD

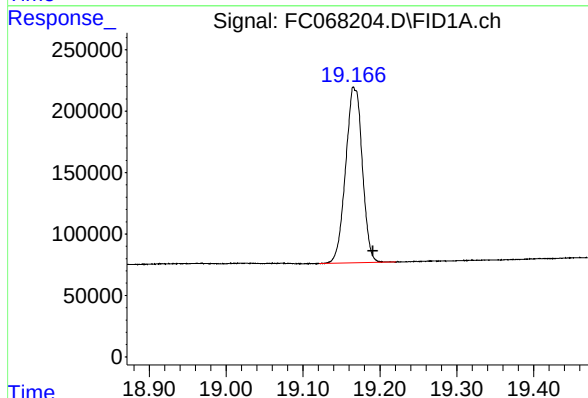
Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025



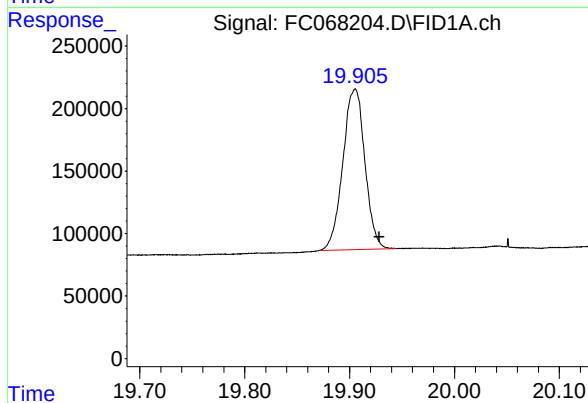
#18 n-Dotriacontane (C32)

R.T.: 18.386 min
 Delta R.T.: -0.025 min
 Response: 2431577
 Conc: 19.45 ug/ml



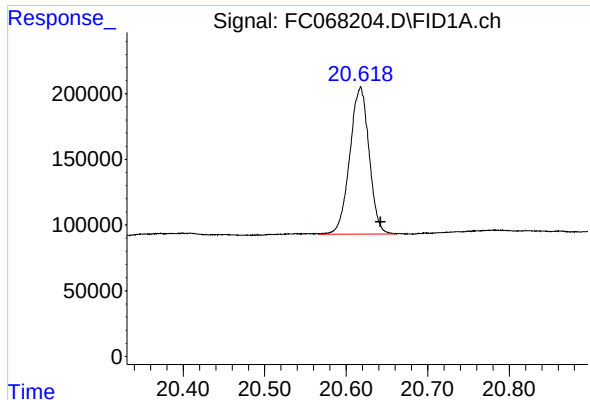
#19 n-Tetratriacontane (C34)

R.T.: 19.167 min
 Delta R.T.: -0.024 min
 Response: 2151922
 Conc: 19.84 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.905 min
 Delta R.T.: -0.024 min
 Response: 1874092
 Conc: 20.25 ug/ml



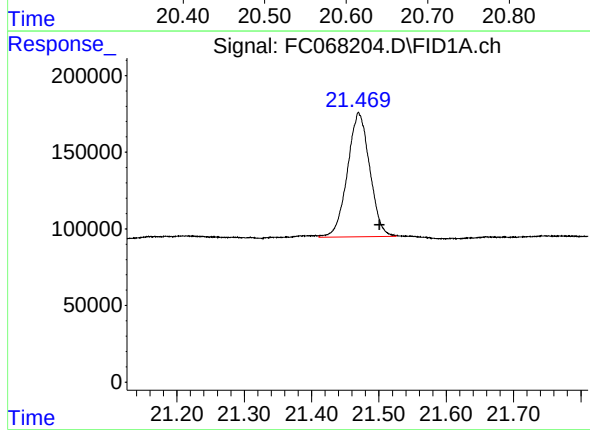
#21 n-Octatriacontane (C38)

R.T.: 20.618 min
Delta R.T.: -0.024 min
Response: 1835250
Conc: 21.42 ug/ml

Instrument :
FID_C
ClientSampleId :
20 PPM ALIPHATIC HC STD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#22 n-Tetracontane (C40)

R.T.: 21.469 min
Delta R.T.: -0.032 min
Response: 1861059
Conc: 23.02 ug/ml m

rters

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

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068204.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 20:48
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.211	3.181	3.271	BB	348246	2891515	90.02%	5.061%
2	4.269	4.234	4.324	BB	325048	2938719	91.49%	5.143%
3	5.837	5.794	5.911	BB	344281	3212215	100.00%	5.622%
4	6.278	6.238	6.341	BB	295172	2929806	91.21%	5.128%
5	6.889	6.861	6.974	BB	305925	3047950	94.89%	5.334%
6	8.066	8.031	8.128	BB	275176	2838228	88.36%	4.967%
7	9.662	9.624	9.724	BB	259799	2861018	89.07%	5.007%
8	11.100	11.064	11.161	BB	244085	2851041	88.76%	4.990%
9	11.405	11.368	11.468	BB	283874	3132699	97.52%	5.483%
10	12.406	12.368	12.464	BB	219574	2710717	84.39%	4.744%
11	12.846	12.791	12.901	BB	201187	2329568	72.52%	4.077%
12	13.016	12.978	13.078	BB	210960	2648660	82.46%	4.636%
13	13.601	13.528	13.654	BB	214602	2631074	81.91%	4.605%
14	14.701	14.631	14.764	BB	210582	2594061	80.76%	4.540%
15	15.720	15.654	15.781	BB	193900	2536221	78.96%	4.439%
16	16.668	16.598	16.728	BB	180215	2485025	77.36%	4.349%
17	17.553	17.494	17.614	BB	182818	2520724	78.47%	4.412%
18	18.386	18.314	18.448	BB	173144	2431577	75.70%	4.256%
19	19.167	19.121	19.221	BB	141297	2151922	66.99%	3.766%
20	19.905	19.871	19.944	BB	127973	1874092	58.34%	3.280%
21	20.617	20.581	20.681	BB	111051	1793926	55.85%	3.140%
22	21.470	21.431	21.588	BB	78116	1727677	53.78%	3.024%
Sum of corrected areas:						57138435		

Aliphatic EPH 012425.M Thu Feb 06 04:40:12 2025



QC SAMPLE DATA

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	PB166564BL	SDG No.:	Q1290
Lab Sample ID:	PB166564BL	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
02/05/25 09:25	02/05/25 13:32	PB166564

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	FC068193.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:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	PB166564BL	SDG No.:	Q1290
Lab Sample ID:	PB166564BL	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
FC068193.D	1	02/05/25	02/05/25	PB166564

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)	39.5		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.1		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166564BL	Acq On:	05 Feb 2025 13:32
Client Sample ID:	PB166564BL	Operator:	YP/AJ
Data file:	FC068193.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	0	0	300	ug/ml
Aliphatic C12-C16	6.378	9.761	0	0	200	ug/ml
Aliphatic C16-C21	9.762	13.114	0	0	300	ug/ml
Aliphatic C21-C28	13.115	16.766	0	0	400	ug/ml
Aliphatic C28-C40	16.767	21.570	0	0	600	ug/ml
Aliphatic EPH	3.110	21.570	0	0		ug/ml
ortho-Terphenyl (SURR)	11.405	11.405	5957437	38.12		ug/ml
1-chlorooctadecane (SURR)	12.847	12.847	4539321	39.47		ug/ml
Aliphatic C9-C28	3.110	16.766	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068193.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 13:32
Operator : YP/AJ
Sample : PB166564BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166564BL

Integration File: autoint1.e
Quant Time: Feb 06 04:11:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.405	5957437	38.123 ug/ml
Spiked Amount	50.000	Recovery	= 76.25%
12) S 1-chlorooctadecane (S...	12.847	4539321	39.471 ug/ml
Spiked Amount	50.000	Recovery	= 78.94%

Target Compounds

(f)=RT Delta > 1/2 Window

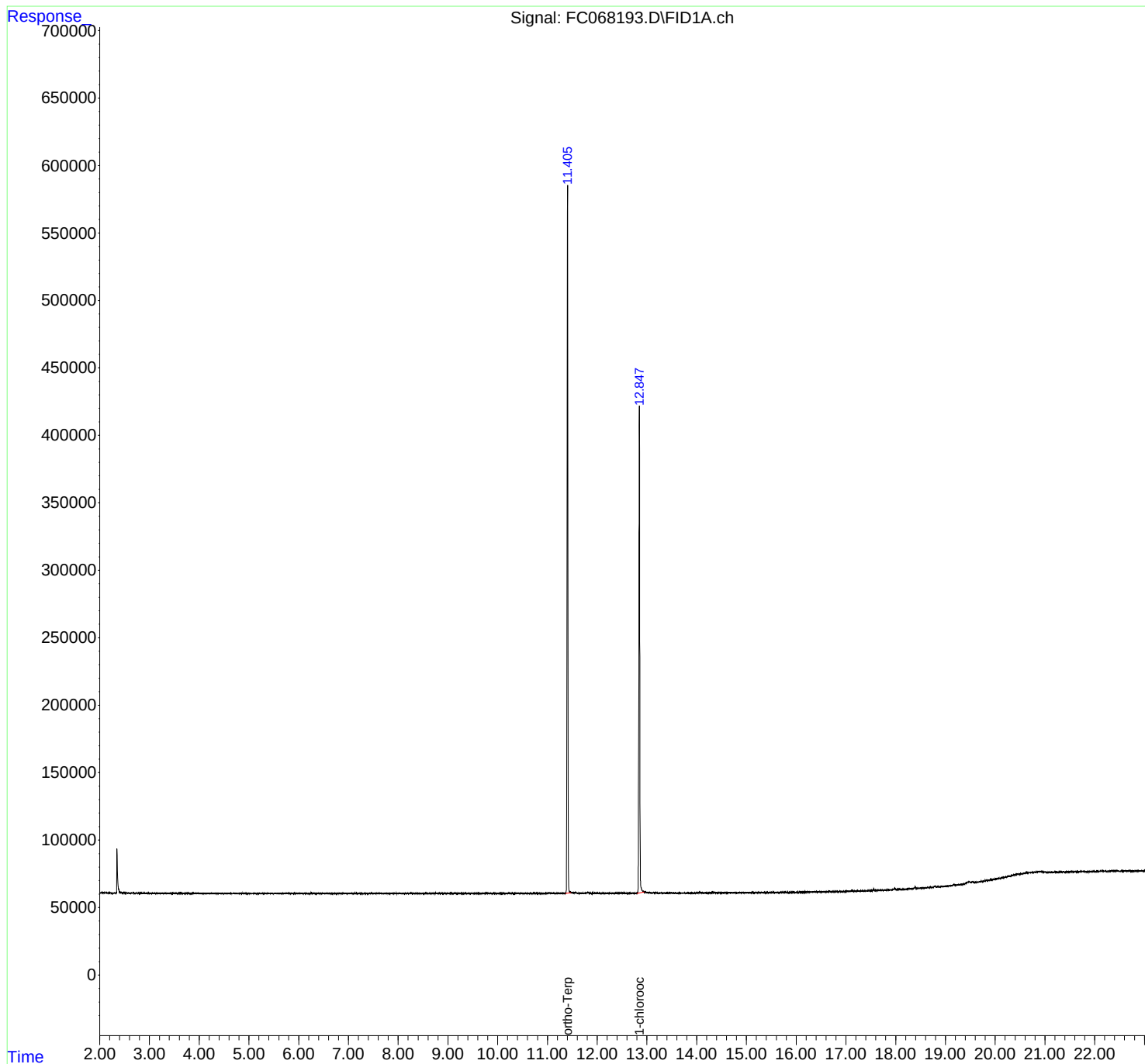
(m)=manual int.

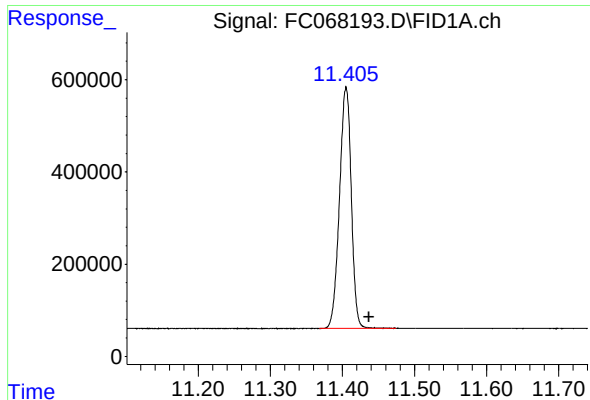
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068193.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 13:32
Operator : YP/AJ
Sample : PB166564BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_C
ClientSampleId :
PB166564BL

Integration File: autoint1.e
Quant Time: Feb 06 04:11:43 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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

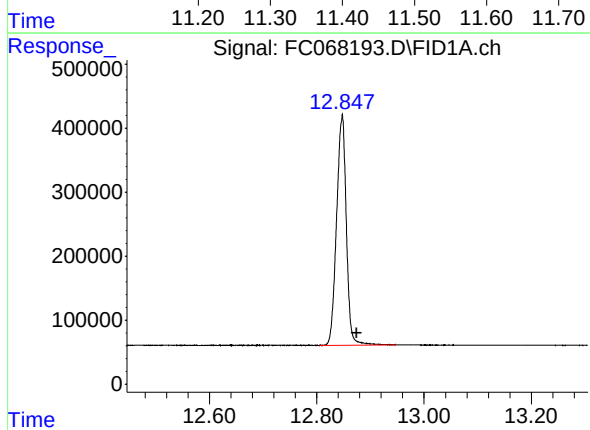




#9 ortho-Terphenyl (SURR)

R.T.: 11.405 min
Delta R.T.: -0.032 min
Response: 5957437
Conc: 38.12 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BL



#12 1-chlorooctadecane (SURR)

R.T.: 12.847 min
Delta R.T.: -0.027 min
Response: 4539321
Conc: 39.47 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068193.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 13:32
Sample : PB166564BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.405	11.368	11.474	BB	523407	5957437	100.00%	56.755%
2	12.847	12.804	12.948	BB	359900	4539321	76.20%	43.245%
Sum of corrected areas:							10496758	

Aliphatic EPH 012425.M Thu Feb 06 04:37:58 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC		Date Collected:		
Project:	305 Central Ave, West Caldwell		Date Received:		
Client Sample ID:	PB166564BS		SDG No.:	Q1290	
Lab Sample ID:	PB166564BS		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
02/05/25 09:25	02/05/25 14:08	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	70.3		1	1.72	3.99	mg/kg	FC068194.D
Total EPH	Total EPH	70.3			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:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	PB166564BS	SDG No.:	Q1290
Lab Sample ID:	PB166564BS	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
FC068194.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	70.3		1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	21.8		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.5		40 - 140	73%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166564BS	Acq On:	05 Feb 2025 14:08
Client Sample ID:	PB166564BS	Operator:	YP/AJ
Data file:	FC068194.D	Misc:	
Instrument:	FID_C	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	26716777	192.917	300	ug/ml
Aliphatic C12-C16	6.378	9.761	33678707	244.557	200	ug/ml
Aliphatic C16-C21	9.762	13.114	37209362	275.586	300	ug/ml
Aliphatic C21-C28	13.115	16.766	43388184	341.082	400	ug/ml
Aliphatic C28-C40	16.767	21.570	33837598	326.495	600	ug/ml
Aliphatic EPH	3.110	21.570	174830628	1380		ug/ml
ortho-Terphenyl (SURR)	11.405	11.405	5699610	36.47		ug/ml
1-chlorooctadecane (SURR)	12.845	12.845	4467921	38.85		ug/ml
Aliphatic C9-C28	3.110	16.766	140993030	1050	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068194.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 14:08
 Operator : YP/AJ
 Sample : PB166564BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_C

ClientSampleId :

PB166564BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e

Quant Time: Feb 06 04:11:59 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M

Quant Title : GC Extractables

QLast Update : Sat Jan 25 04:31:18 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.405	5699610	36.474 ug/ml
Spiked Amount 50.000		Recovery =	72.95%
12) S 1-chlorooctadecane (S...	12.845	4467921	38.851 ug/ml
Spiked Amount 50.000		Recovery =	77.70%
Target Compounds			
1) T n-Nonane (C9)	3.226	4810724	35.132 ug/ml
2) T n-Decane (C10)	4.276	5076272	36.564 ug/mlm
3) T A~Naphthalene (C11.7)	5.839	5961720	39.711 ug/ml
4) T n-Dodecane (C12)	6.279	5150451	36.868 ug/ml
5) T A~2-methylnaphthalene...	6.890	5361567	37.328 ug/ml
6) T n-Tetradecane (C14)	8.068	5206607	38.150 ug/ml
7) T n-Hexadecane (C16)	9.662	5110018	36.776 ug/ml
8) T n-Octadecane (C18)	11.100	5040307	36.024 ug/ml
10) T n-Eicosane (C20)	12.445	5432917	40.604 ug/ml
11) T n-Heneicosane (C21)	13.015	4842924	36.873 ug/ml
13) T n-Docosane (C22)	13.599	4773113	36.848 ug/ml
14) T n-Tetracosane (C24)	14.658	9757578	76.002 ug/mlm
15) T n-Hexacosane (C26)	15.719	4527593	35.980 ug/ml
16) T n-Octacosane (C28)	16.665	4451461	35.591 ug/ml
17) T n-Tricontane (C30)	17.553	4370022	33.809 ug/ml
18) T n-Dotriacontane (C32)	18.383	4043558	32.345 ug/ml
19) T n-Tetratriacontane (C34)	19.164	3556049	32.782 ug/ml
20) T n-Hexatriacontane (C36)	19.901	2893667	31.268 ug/mlm
21) T n-Octatriacontane (C38)	20.612	2441874	28.497 ug/mlm
22) T n-Tetracontane (C40)	21.465	2156192	26.666 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068194.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 14:08
Operator : YP/AJ
Sample : PB166564BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_C

Client SampleId :

PB166564BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e

Quant Time: Feb 06 04:11:59 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M

Quant Title : GC Extractables

QLast Update : Sat Jan 25 04:31:18 2025

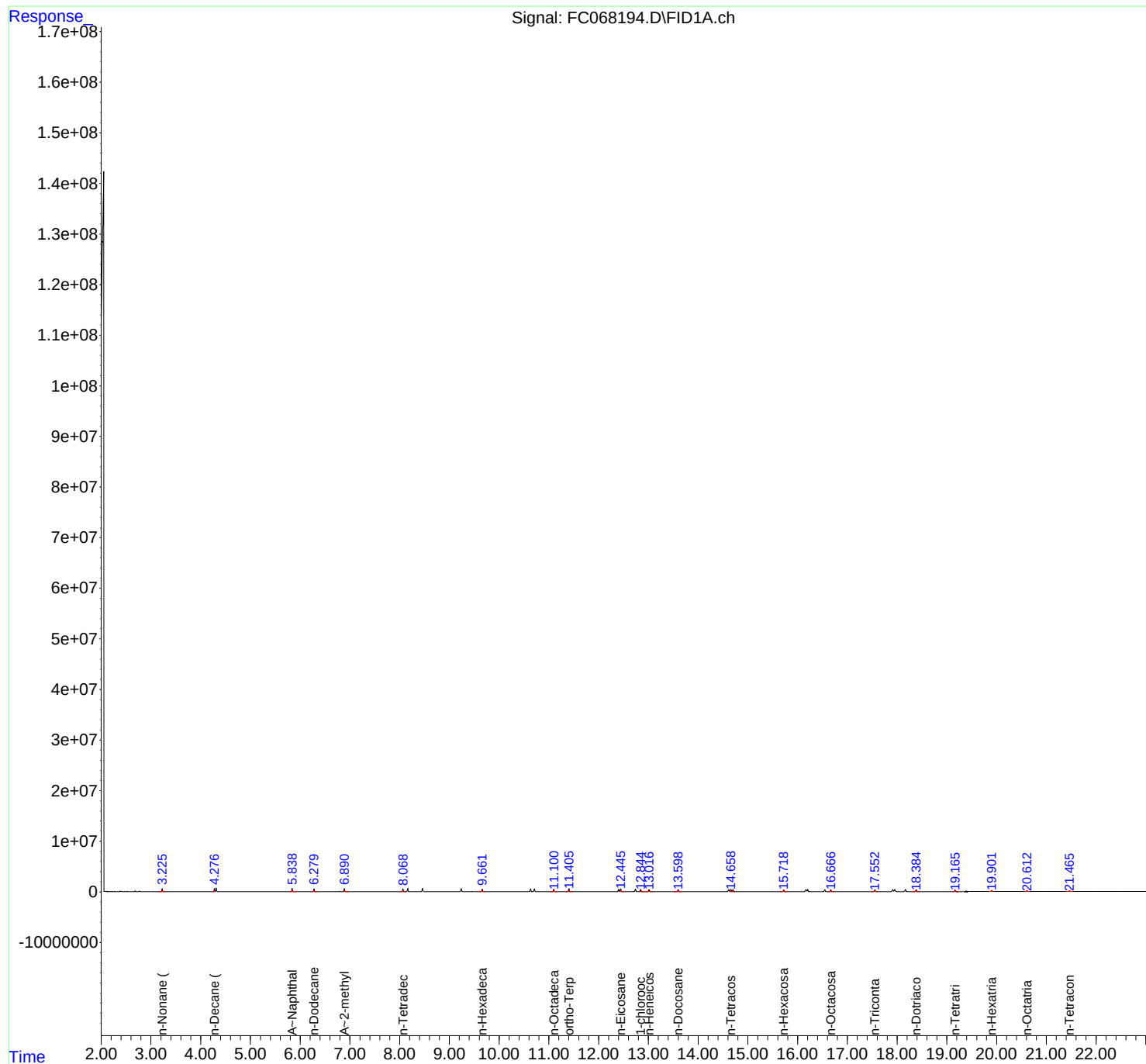
Response via : Initial Calibration

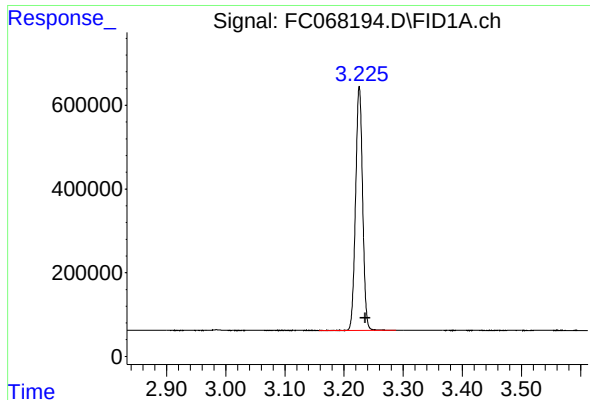
Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um





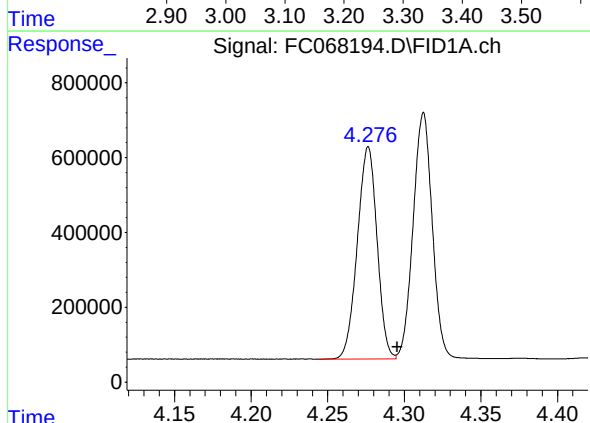
#1 n-Nonane (C9)

R.T.: 3.226 min
Delta R.T.: -0.010 min
Response: 4810724
Conc: 35.13 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BS

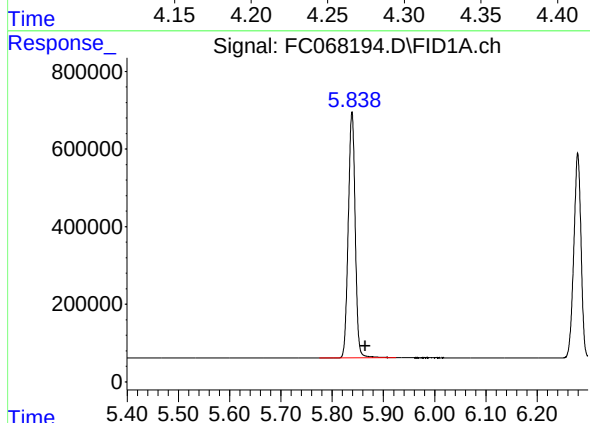
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



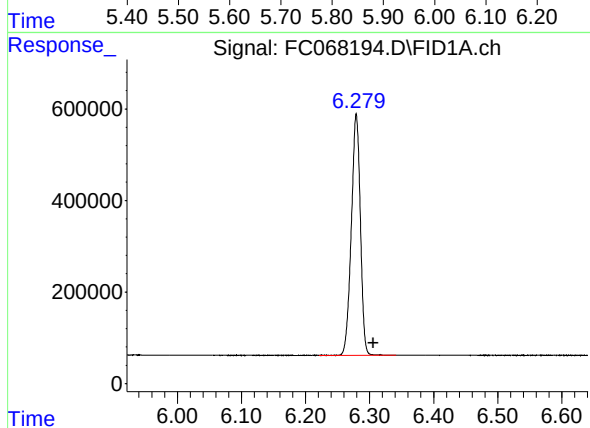
#2 n-Decane (C10)

R.T.: 4.276 min
Delta R.T.: -0.019 min
Response: 5076272
Conc: 36.56 ug/ml



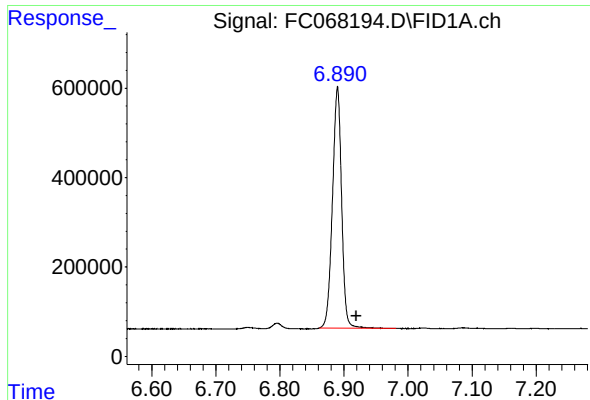
#3 A~Naphthalene (C11.7)

R.T.: 5.839 min
Delta R.T.: -0.026 min
Response: 5961720
Conc: 39.71 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.279 min
Delta R.T.: -0.026 min
Response: 5150451
Conc: 36.87 ug/ml



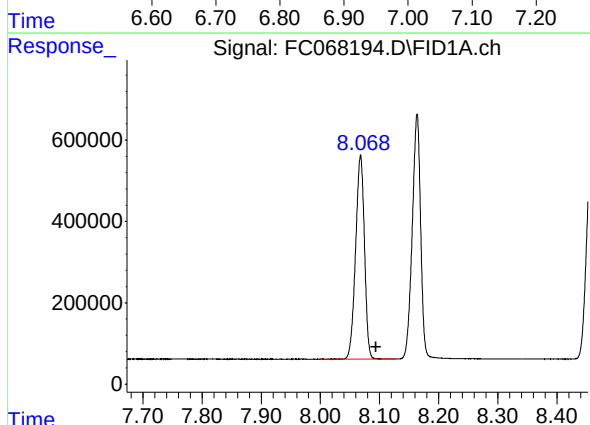
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.890 min
Delta R.T.: -0.029 min
Response: 5361567
Conc: 37.33 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BS

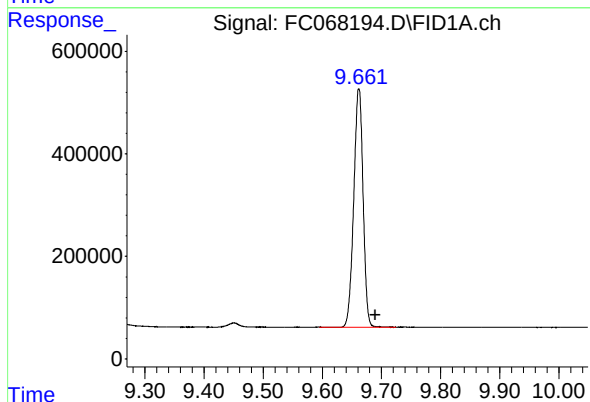
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



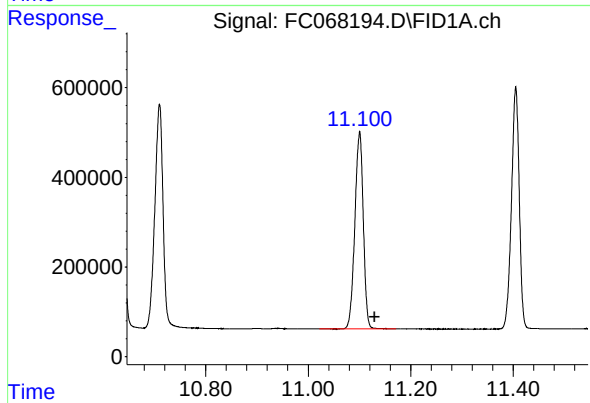
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: -0.026 min
Response: 5206607
Conc: 38.15 ug/ml



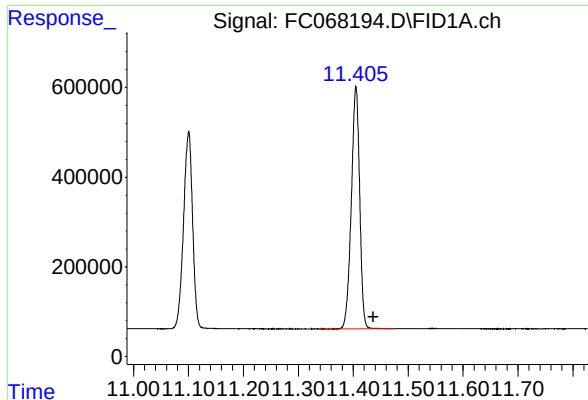
#7 n-Hexadecane (C16)

R.T.: 9.662 min
Delta R.T.: -0.028 min
Response: 5110018
Conc: 36.78 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.100 min
Delta R.T.: -0.030 min
Response: 5040307
Conc: 36.02 ug/ml



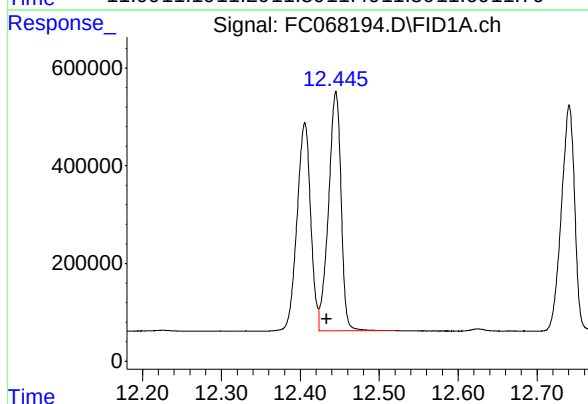
#9 ortho-Terphenyl (SURR)

R.T.: 11.405 min
Delta R.T.: -0.032 min
Response: 5699610
Conc: 36.47 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BS

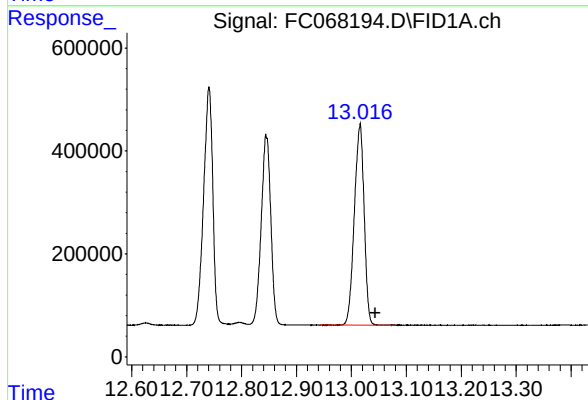
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



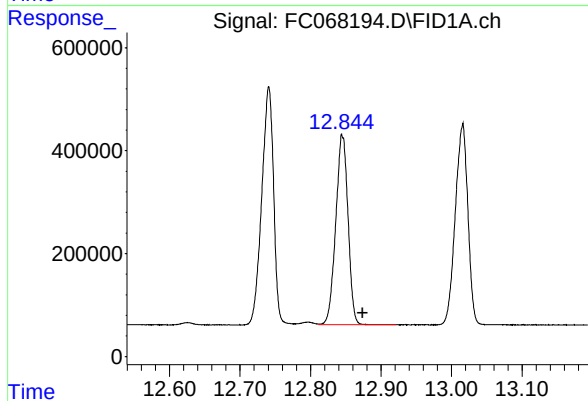
#10 n-Eicosane (C20)

R.T.: 12.445 min
Delta R.T.: 0.011 min
Response: 5432917
Conc: 40.60 ug/ml



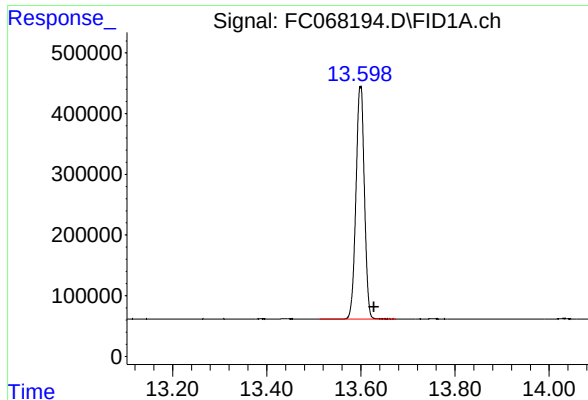
#11 n-Heneicosane (C21)

R.T.: 13.015 min
Delta R.T.: -0.028 min
Response: 4842924
Conc: 36.87 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.845 min
Delta R.T.: -0.029 min
Response: 4467921
Conc: 38.85 ug/ml



#13 n-Docosane (C22)

R.T.: 13.599 min
Delta R.T.: -0.029 min
Response: 4773113
Conc: 36.85 ug/ml

Instrument :

FID_C

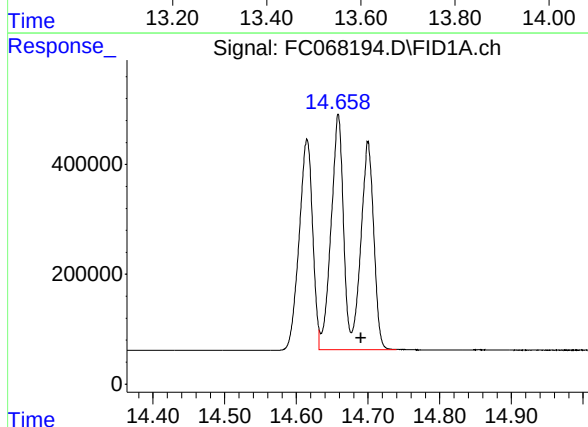
ClientSampleId :

PB166564BS

Manual Integrations

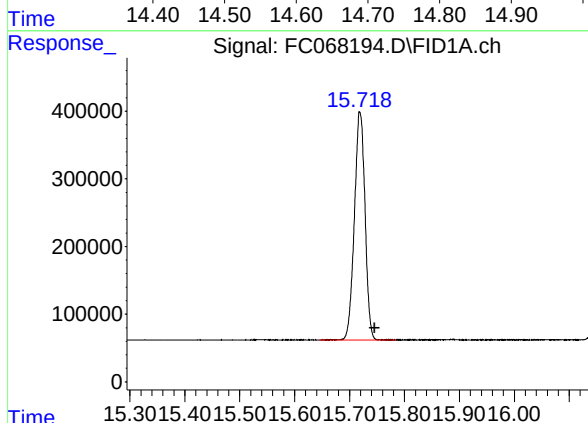
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



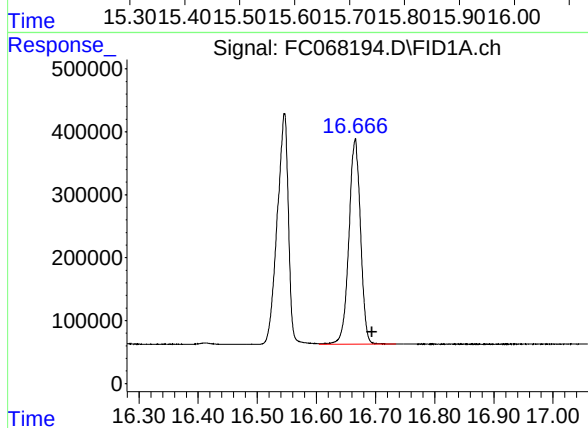
#14 n-Tetracosane (C24)

R.T.: 14.658 min
Delta R.T.: -0.032 min
Response: 9757578
Conc: 76.00 ug/ml m



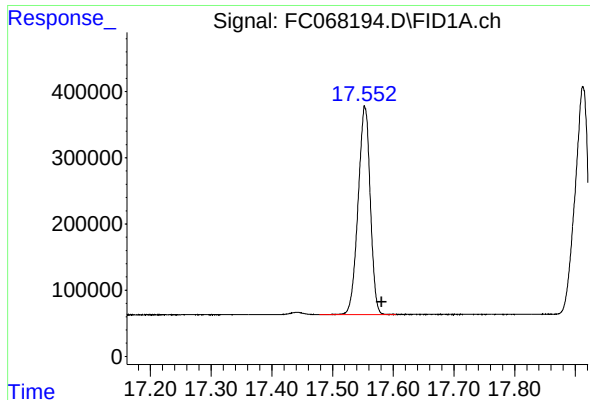
#15 n-Hexacosane (C26)

R.T.: 15.719 min
Delta R.T.: -0.027 min
Response: 4527593
Conc: 35.98 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.665 min
Delta R.T.: -0.028 min
Response: 4451461
Conc: 35.59 ug/ml



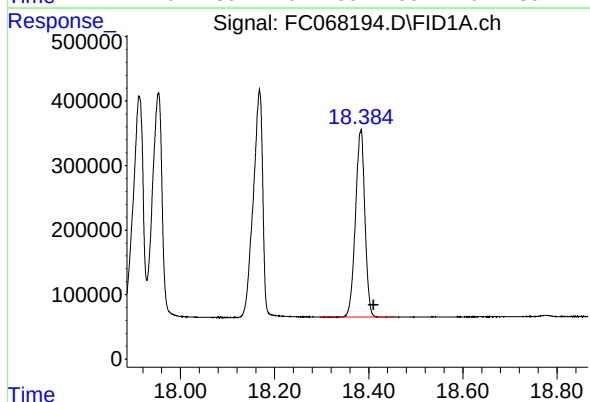
#17 n-Tricontane (C30)

R.T.: 17.553 min
Delta R.T.: -0.027 min
Response: 4370022
Conc: 33.81 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BS

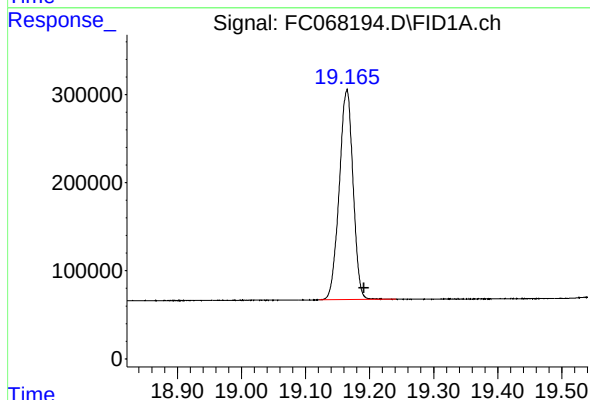
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



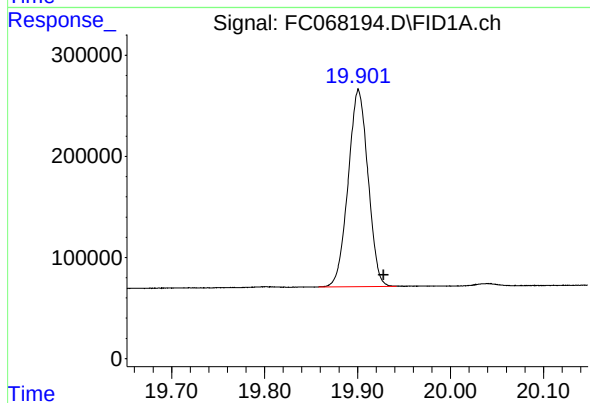
#18 n-Dotriacontane (C32)

R.T.: 18.383 min
Delta R.T.: -0.027 min
Response: 4043558
Conc: 32.35 ug/ml



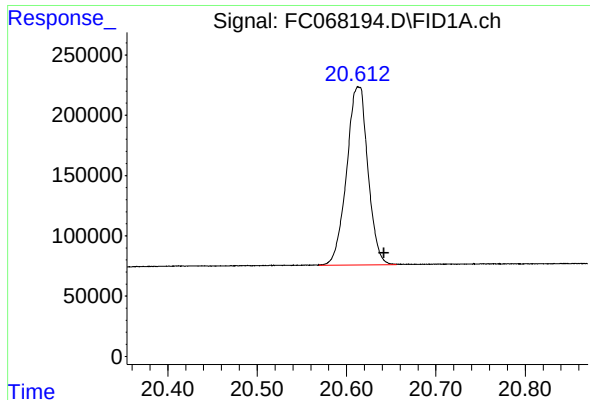
#19 n-Tetratriacontane (C34)

R.T.: 19.164 min
Delta R.T.: -0.027 min
Response: 3556049
Conc: 32.78 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.901 min
Delta R.T.: -0.028 min
Response: 2893667
Conc: 31.27 ug/ml m



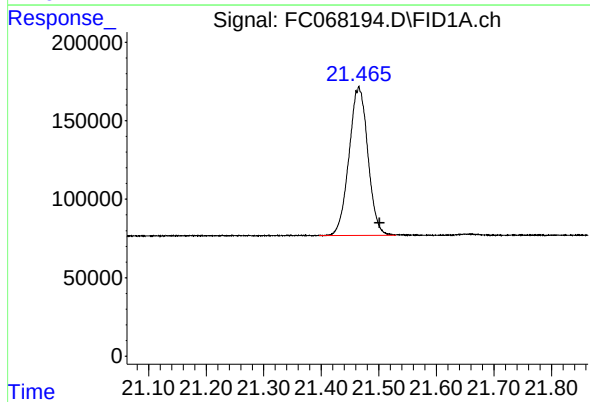
#21 n-Octatriacontane (C38)

R.T.: 20.612 min
Delta R.T.: -0.030 min
Response: 2441874
Conc: 28.50 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#22 n-Tetracontane (C40)

R.T.: 21.465 min
Delta R.T.: -0.036 min
Response: 2156192
Conc: 26.67 ug/ml m

rteres

Instrument :

FID_C

ClientSampleId :

PB166564BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068194.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 14:08
Sample : PB166564BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.226	3.158	3.288	BB	577907	4810724	78.91%	2.600%
2	4.276	4.218	4.294	BV	568706	5068650	83.14%	2.740%
3	4.312	4.294	4.361	VV	649699	5725232	93.91%	3.095%
4	5.839	5.775	5.925	BB	631974	5961720	97.79%	3.223%
5	6.279	6.221	6.341	BB	523270	5150451	84.48%	2.784%
6	6.890	6.861	6.981	BB	540157	5361567	87.95%	2.898%
7	8.068	7.998	8.128	BB	500622	5206607	85.40%	2.814%
8	8.163	8.135	8.245	BB	607516	5951196	97.62%	3.217%
9	8.459	8.385	8.531	BB	614315	6096492	100.00%	3.295%
10	9.239	9.171	9.341	BB	548104	5952827	97.64%	3.218%
11	9.662	9.595	9.725	BB	467373	5110018	83.82%	2.762%
12	10.634	10.535	10.676	BV	535307	5692667	93.38%	3.077%
13	10.710	10.676	10.811	VB	506326	5669913	93.00%	3.065%
14	11.100	11.021	11.171	BB	443657	5040307	82.68%	2.725%
15	11.405	11.338	11.478	BB	538333	5699610	93.49%	3.081%
16	12.405	12.318	12.424	BV	424118	5126177	84.08%	2.771%
17	12.445	12.424	12.521	VB	488594	5432917	89.12%	2.937%
18	12.741	12.661	12.778	BV	464413	5404457	88.65%	2.921%
19	12.845	12.812	12.921	VB	370260	4467921	73.29%	2.415%
20	13.015	12.941	13.081	BB	385594	4842924	79.44%	2.618%
21	13.599	13.511	13.675	BB	385747	4773113	78.29%	2.580%
22	14.615	14.535	14.635	BV	383819	5075557	83.25%	2.744%
23	14.658	14.635	14.677	VV	429645	5057144	82.95%	2.734%
24	14.700	14.677	14.775	VB	376169	4705216	77.18%	2.543%
25	15.719	15.645	15.785	BB	340037	4527593	74.27%	2.447%
26	16.167	16.075	16.182	BV	344624	4943998	81.10%	2.672%
27	16.201	16.182	16.295	VB	429519	5038686	82.65%	2.724%
28	16.545	16.465	16.605	BV	363455	4815416	78.99%	2.603%
29	16.665	16.605	16.735	VB	322203	4451461	73.02%	2.406%
30	17.553	17.478	17.605	BB	313439	4370022	71.68%	2.362%
31	17.913	17.828	17.929	BV	343997	5030756	82.52%	2.719%
32	17.953	17.929	18.035	VB	350925	4930793	80.88%	2.665%
33	18.167	18.075	18.255	BB	352804	4919710	80.70%	2.659%
34	18.383	18.295	18.458	BB	293548	4043558	66.33%	2.186%
35	19.164	19.121	19.241	BB	238162	3556049	58.33%	1.922%
36	19.901	19.871	19.951	BB	192770	2816833	46.20%	1.523%

rters
37 20.613 20.581 20.675 BB 146319 2342302 38.42% 1.266%
38 21.465 21.431 21.545 BB 87789 1827575 29
Sum of corrected areas: 1849

Aliphatic EPH 012425.M Thu Feb 06 04:38:36 2025

Instrument :

FID_C

ClientSampleId :

PB166564BS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	PB166564BSD	SDG No.:	Q1290
Lab Sample ID:	PB166564BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
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
02/05/25 09:25	02/05/25 14:45	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	71.0		1	1.72	3.99	mg/kg	FC068195.D
Total EPH	Total EPH	71.0			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:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	PB166564BSD	SDG No.:	Q1290
Lab Sample ID:	PB166564BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
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
FC068195.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	71.0		1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.3		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.4		40 - 140	79%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.9		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB166564BSD	Acq On:	05 Feb 2025 14:45
Client Sample ID:	PB166564BSD	Operator:	YP/AJ
Data file:	FC068195.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	27099981	195.684	300	ug/ml
Aliphatic C12-C16	6.378	9.761	34151231	247.988	200	ug/ml
Aliphatic C16-C21	9.762	13.114	37631322	278.711	300	ug/ml
Aliphatic C21-C28	13.115	16.766	43665155	343.259	400	ug/ml
Aliphatic C28-C40	16.767	21.570	34635739	334.196	600	ug/ml
Aliphatic EPH	3.110	21.570	177183428	1400		ug/ml
ortho-Terphenyl (SURR)	11.406	11.406	5760453	36.86		ug/ml
1-chlorooctadecane (SURR)	12.846	12.846	4525216	39.35		ug/ml
Aliphatic C9-C28	3.110	16.766	142547689	1070	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068195.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 14:45
 Operator : YP/AJ
 Sample : PB166564BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

FID_C

ClientSampleId :

PB166564BSD

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e

Quant Time: Feb 06 04:12:26 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M

Quant Title : GC Extractables

QLast Update : Sat Jan 25 04:31:18 2025

Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.406	5760453	36.863 ug/ml
Spiked Amount 50.000		Recovery =	73.73%
12) S 1-chlorooctadecane (S...	12.846	4525216	39.349 ug/ml
Spiked Amount 50.000		Recovery =	78.70%
Target Compounds			
1) T n-Nonane (C9)	3.226	4871569	35.576 ug/ml
2) T n-Decane (C10)	4.276	5155762	37.137 ug/mlm
3) T A~Naphthalene (C11.7)	5.839	6043020	40.253 ug/ml
4) T n-Dodecane (C12)	6.279	5237886	37.494 ug/ml
5) T A~2-methylnaphthalene...	6.890	5444266	37.904 ug/ml
6) T n-Tetradecane (C14)	8.068	5291165	38.769 ug/ml
7) T n-Hexadecane (C16)	9.662	5185676	37.321 ug/ml
8) T n-Octadecane (C18)	11.101	5108922	36.514 ug/ml
10) T n-Eicosane (C20)	12.445	5486081	41.002 ug/ml
11) T n-Heneicosane (C21)	13.016	4907938	37.368 ug/ml
13) T n-Docosane (C22)	13.601	4825396	37.252 ug/ml
14) T n-Tetracosane (C24)	14.659	9792029	76.270 ug/mlm
15) T n-Hexacosane (C26)	15.720	4561804	36.252 ug/ml
16) T n-Octacosane (C28)	16.667	4476448	35.791 ug/ml
17) T n-Tricontane (C30)	17.554	4392486	33.983 ug/ml
18) T n-Dotriacontane (C32)	18.382	4087426	32.696 ug/ml
19) T n-Tetratriacontane (C34)	19.164	3644627	33.599 ug/ml
20) T n-Hexatriacontane (C36)	19.903	3024579	32.683 ug/mlm
21) T n-Octatriacontane (C38)	20.613	2606537	30.419 ug/mlm
22) T n-Tetracontane (C40)	21.464	2329340	28.807 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068195.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 14:45
Operator : YP/AJ
Sample : PB166564BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

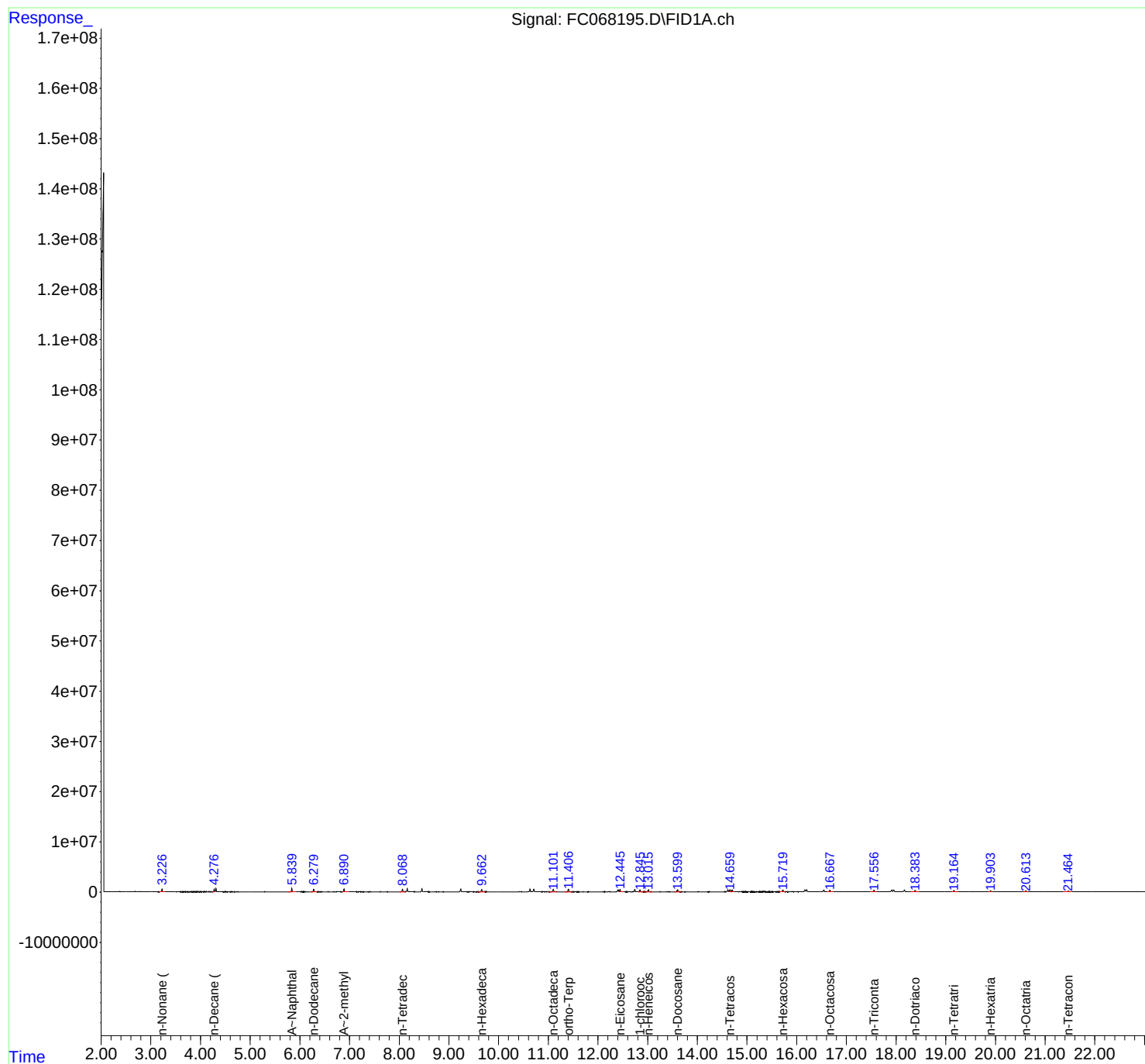
Instrument :
FID_C
ClientSampleId :
PB166564BSD

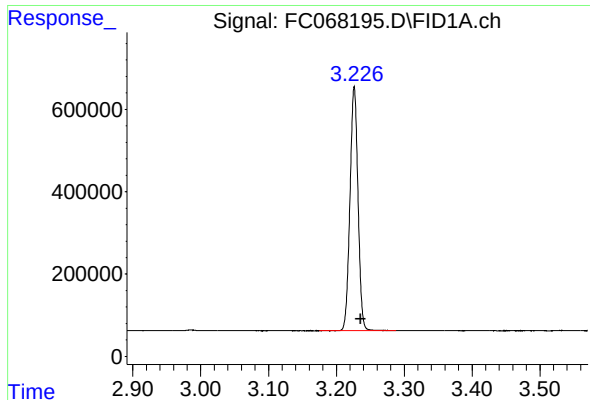
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:12:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





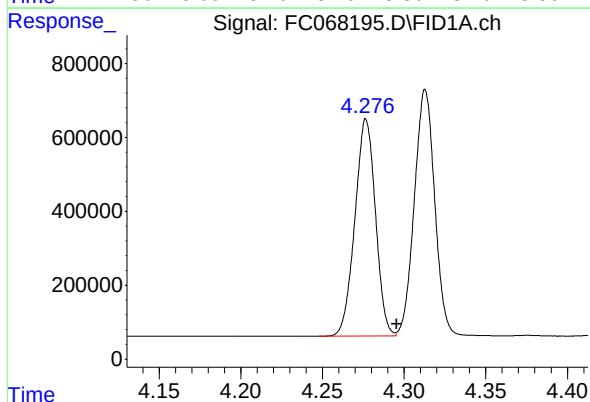
#1 n-Nonane (C9)

R.T.: 3.226 min
Delta R.T.: -0.010 min
Response: 4871569
Conc: 35.58 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BSD

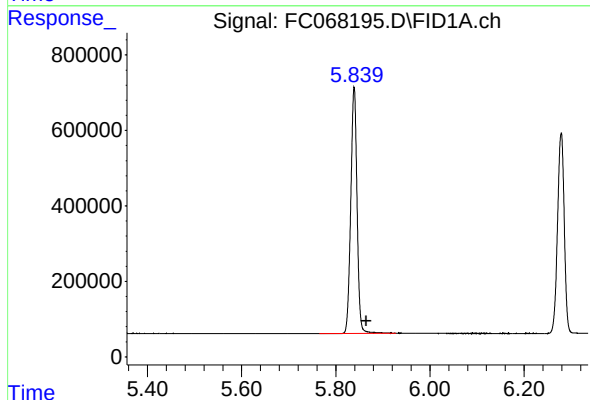
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



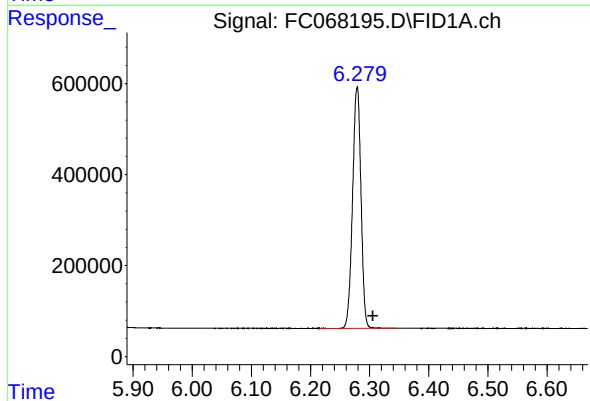
#2 n-Decane (C10)

R.T.: 4.276 min
Delta R.T.: -0.019 min
Response: 5155762
Conc: 37.14 ug/ml



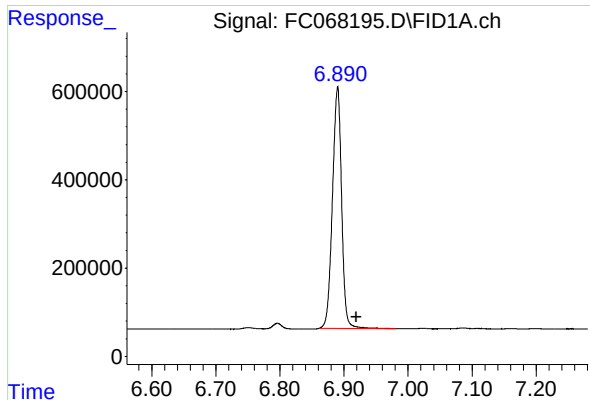
#3 A~Naphthalene (C11.7)

R.T.: 5.839 min
Delta R.T.: -0.026 min
Response: 6043020
Conc: 40.25 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.279 min
Delta R.T.: -0.027 min
Response: 5237886
Conc: 37.49 ug/ml



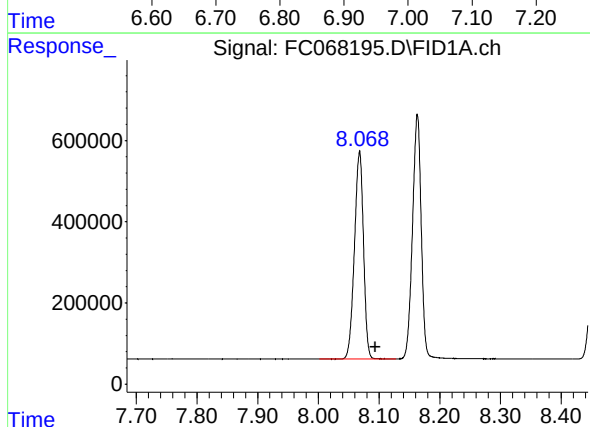
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.890 min
Delta R.T.: -0.029 min
Response: 5444266
Conc: 37.90 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BSD

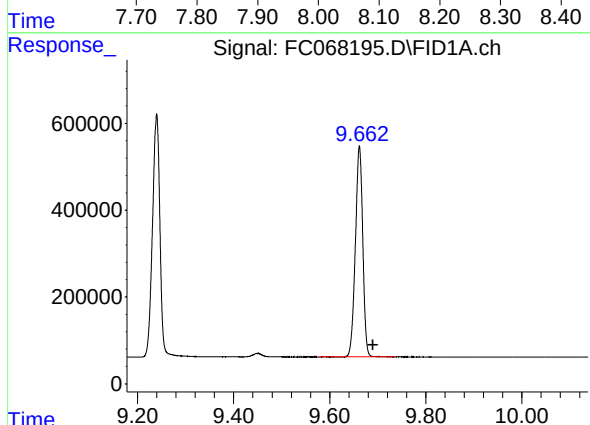
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



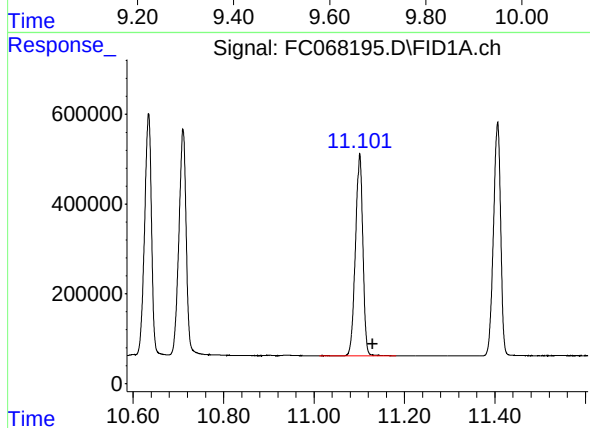
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: -0.026 min
Response: 5291165
Conc: 38.77 ug/ml



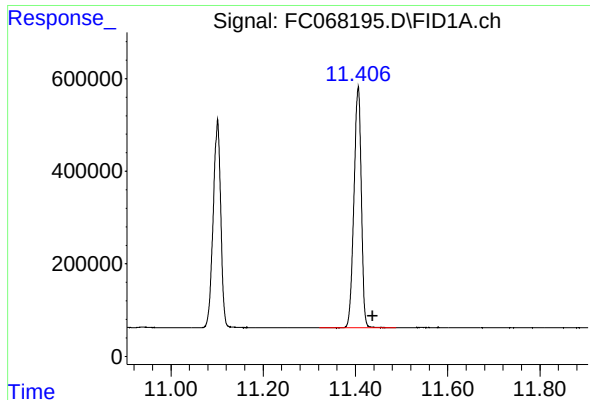
#7 n-Hexadecane (C16)

R.T.: 9.662 min
Delta R.T.: -0.028 min
Response: 5185676
Conc: 37.32 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.101 min
Delta R.T.: -0.029 min
Response: 5108922
Conc: 36.51 ug/ml



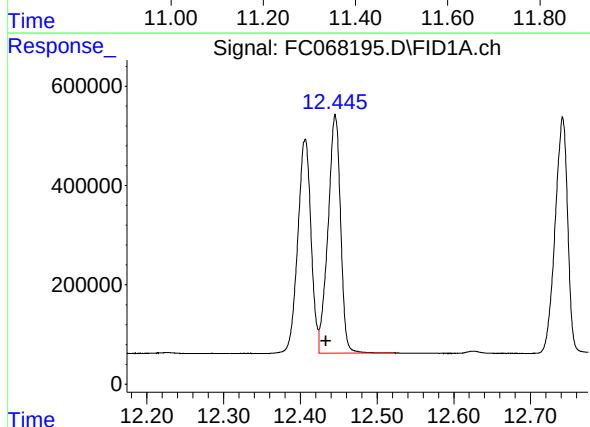
#9 ortho-Terphenyl (SURR)

R.T.: 11.406 min
Delta R.T.: -0.031 min
Response: 5760453
Conc: 36.86 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BSD

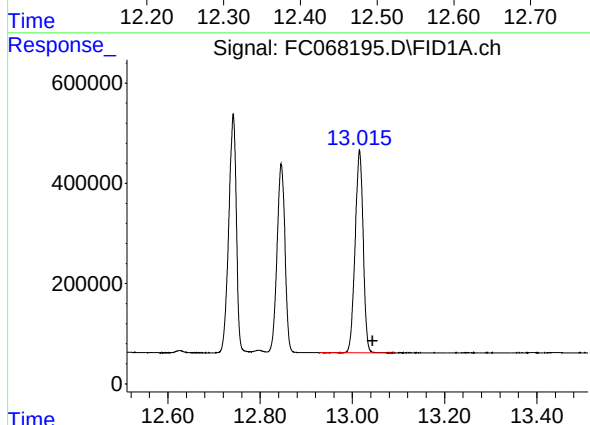
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



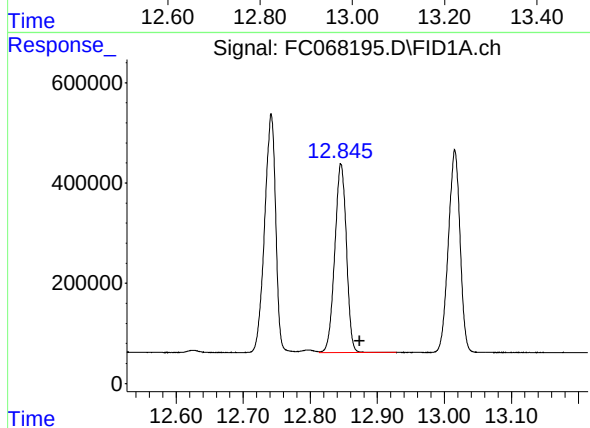
#10 n-Eicosane (C20)

R.T.: 12.445 min
Delta R.T.: 0.012 min
Response: 5486081
Conc: 41.00 ug/ml



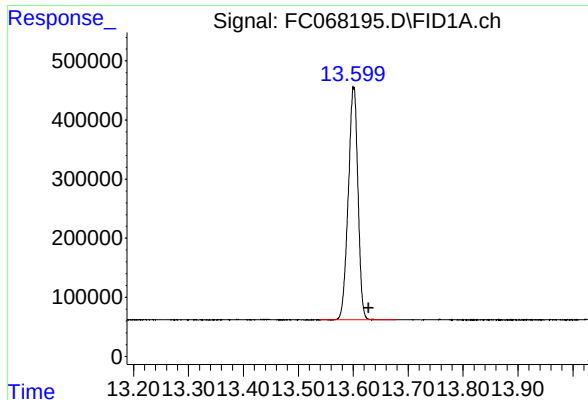
#11 n-Heneicosane (C21)

R.T.: 13.016 min
Delta R.T.: -0.028 min
Response: 4907938
Conc: 37.37 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.846 min
Delta R.T.: -0.028 min
Response: 4525216
Conc: 39.35 ug/ml



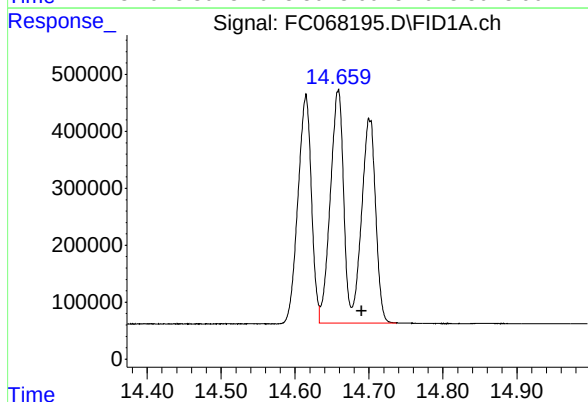
#13 n-Docosane (C22)

R.T.: 13.601 min
Delta R.T.: -0.027 min
Response: 4825396
Conc: 37.25 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BSD

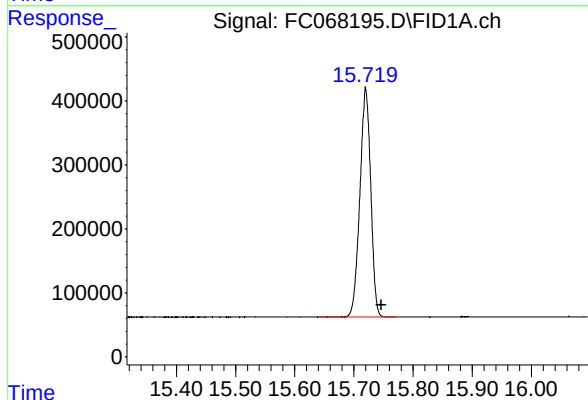
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



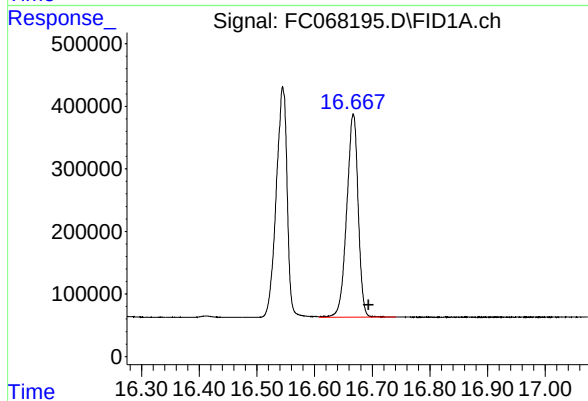
#14 n-Tetracosane (C24)

R.T.: 14.659 min
Delta R.T.: -0.031 min
Response: 9792029
Conc: 76.27 ug/ml



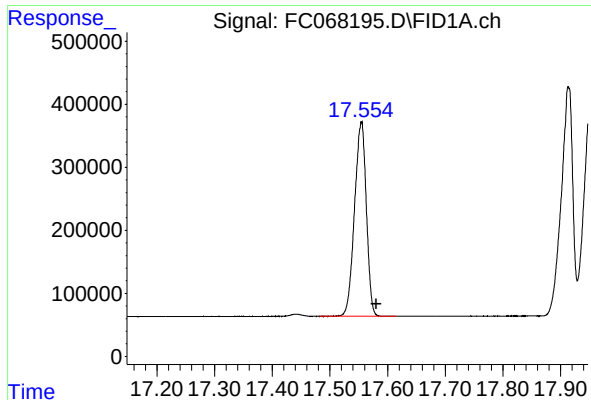
#15 n-Hexacosane (C26)

R.T.: 15.720 min
Delta R.T.: -0.026 min
Response: 4561804
Conc: 36.25 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.667 min
Delta R.T.: -0.027 min
Response: 4476448
Conc: 35.79 ug/ml



#17 n-Tricontane (C30)

R.T.: 17.554 min
Delta R.T.: -0.026 min
Response: 4392486
Conc: 33.98 ug/ml

Instrument :

FID_C

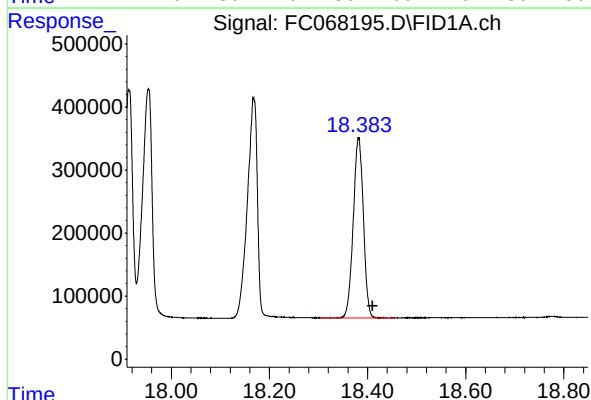
ClientSampleId :

PB166564BSD

Manual Integrations

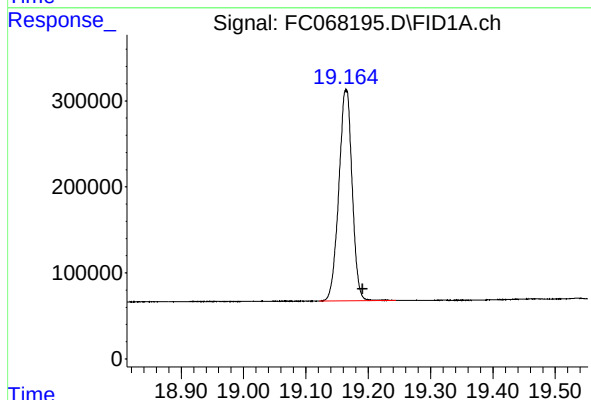
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



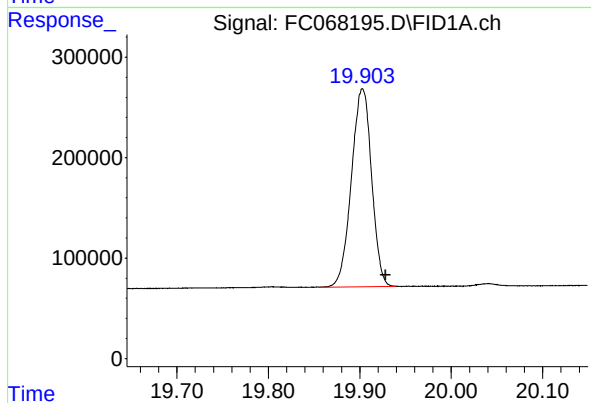
#18 n-Dotriacontane (C32)

R.T.: 18.382 min
Delta R.T.: -0.029 min
Response: 4087426
Conc: 32.70 ug/ml



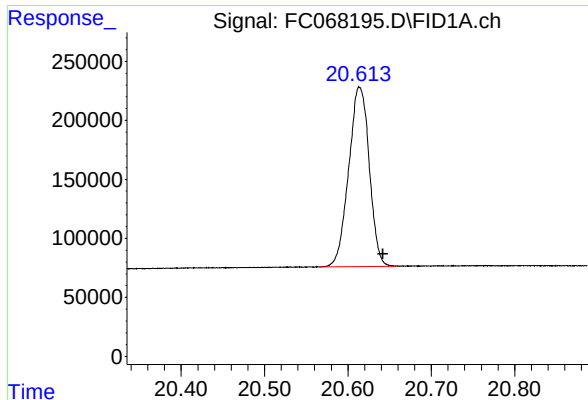
#19 n-Tetratriacontane (C34)

R.T.: 19.164 min
Delta R.T.: -0.027 min
Response: 3644627
Conc: 33.60 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.903 min
Delta R.T.: -0.026 min
Response: 3024579
Conc: 32.68 ug/ml m



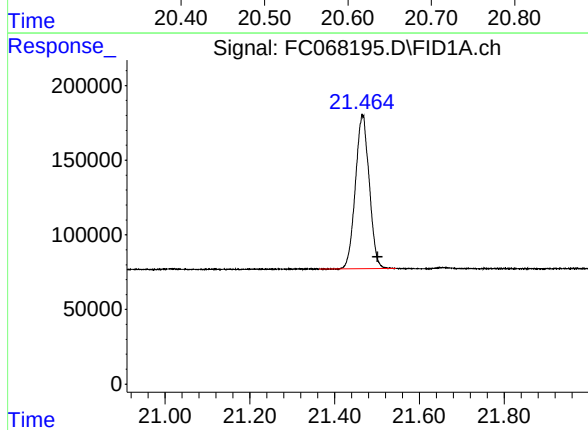
#21 n-Octatriacontane (C38)

R.T.: 20.613 min
Delta R.T.: -0.029 min
Response: 2606537
Conc: 30.42 ug/ml

Instrument :
FID_C
ClientSampleId :
PB166564BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



#22 n-Tetracontane (C40)

R.T.: 21.464 min
Delta R.T.: -0.037 min
Response: 2329340
Conc: 28.81 ug/ml m

rteres

Instrument :

FID_C

ClientSampleId :

PB166564BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :Ankita Jodhani 02/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068195.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 14:45
Sample : PB166564BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.226	3.175	3.288	BB	586554	4871569	78.83%	2.599%
2	4.277	4.211	4.295	BV	583973	5140963	83.18%	2.742%
3	4.313	4.295	4.361	VV	664626	5806543	93.95%	3.097%
4	5.839	5.765	5.928	BB	651222	6043020	97.78%	3.223%
5	6.279	6.215	6.345	BB	530248	5237886	84.75%	2.794%
6	6.890	6.861	6.981	BB	551062	5444266	88.09%	2.904%
7	8.068	8.001	8.128	BV	511198	5291165	85.62%	2.822%
8	8.163	8.128	8.248	PB	606979	6025783	97.50%	3.214%
9	8.459	8.388	8.535	BB	612413	6180177	100.00%	3.297%
10	9.240	9.155	9.341	BB	562273	6024164	97.48%	3.213%
11	9.662	9.578	9.738	BB	484839	5185676	83.91%	2.766%
12	10.634	10.538	10.676	BV	543678	5755932	93.14%	3.070%
13	10.710	10.676	10.821	VB	506708	5741490	92.90%	3.063%
14	11.101	11.011	11.181	BB	449049	5108922	82.67%	2.725%
15	11.406	11.321	11.488	BB	514192	5760453	93.21%	3.073%
16	12.406	12.298	12.424	BV	431645	5186362	83.92%	2.767%
17	12.445	12.424	12.525	VB	479012	5486081	88.77%	2.926%
18	12.741	12.665	12.779	BV	474093	5444597	88.10%	2.904%
19	12.846	12.813	12.928	VB	375828	4525216	73.22%	2.414%
20	13.016	12.928	13.095	BB	401884	4907938	79.41%	2.618%
21	13.601	13.538	13.678	BB	395196	4825396	78.08%	2.574%
22	14.614	14.518	14.634	BV	401469	5095038	82.44%	2.718%
23	14.658	14.634	14.677	VV	411699	5076168	82.14%	2.708%
24	14.701	14.677	14.778	VB	359240	4754606	76.93%	2.536%
25	15.720	15.641	15.771	BB	353983	4561804	73.81%	2.433%
26	16.167	16.081	16.182	BV	344823	4958331	80.23%	2.645%
27	16.201	16.182	16.298	VB	400754	5078126	82.17%	2.709%
28	16.545	16.445	16.608	BV	369499	4839238	78.30%	2.581%
29	16.667	16.608	16.741	VB	325385	4476448	72.43%	2.388%
30	17.554	17.481	17.615	BB	308784	4392486	71.07%	2.343%
31	17.914	17.821	17.930	BV	365651	5069522	82.03%	2.704%
32	17.953	17.930	18.048	VB	369391	4978209	80.55%	2.655%
33	18.168	18.071	18.255	BB	350136	4953353	80.15%	2.642%
34	18.382	18.301	18.458	BB	286055	4087426	66.14%	2.180%
35	19.164	19.121	19.245	BB	245649	3644627	58.97%	1.944%
36	19.903	19.871	19.948	BB	195868	2955384	47.82%	1.576%

rteres
 37 20.614 20.581 20.661 BB 149865 2517918 40.74% 1.343%
 38 21.466 21.431 21.548 BB 97829 2036814 32
 Sum of corrected areas: 1874

Aliphatic EPH 012425.M Thu Feb 06 04:39:10 2025

Instrument :
 FID_C
 ClientSampleId :
 PB166564BSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	1MS	SDG No.:	Q1290
Lab Sample ID:	Q1290-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
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
02/05/25 09:25	02/05/25 15:58	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	89.0		1	2.03	4.73	mg/kg	FC068197.D
Total EPH	Total EPH	89.0			2.03	4.73	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:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	1MS	SDG No.:	Q1290
Lab Sample ID:	Q1290-03MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
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
FC068197.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	89.0		2.03	4.73	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	42.0		2.13	2.36	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.0		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.7		40 - 140	53%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-03MS	Acq On:	05 Feb 2025 15:58
Client Sample ID:	1MS	Operator:	YP/AJ
Data file:	FC068197.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	28021190	202.336	300	ug/ml
Aliphatic C12-C16	6.378	9.761	35399267	257.051	200	ug/ml
Aliphatic C16-C21	9.762	13.114	39836414	295.042	300	ug/ml
Aliphatic C21-C28	13.115	16.766	47466782	373.144	400	ug/ml
Aliphatic C28-C40	16.767	21.570	55160908	532.242	600	ug/ml
Aliphatic EPH	3.110	21.570	205884561	1660		ug/ml
ortho-Terphenyl (SURR)	11.404	11.404	4169262	26.68		ug/ml
1-chlorooctadecane (SURR)	12.845	12.845	3219479	27.99		ug/ml
Aliphatic C9-C28	3.110	16.766	150723653	1130	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068197.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 15:58
 Operator : YP/AJ
 Sample : Q1290-03MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 1MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:13:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.404	4169262	26.680 ug/ml
Spiked Amount 50.000		Recovery =	53.36%
12) S 1-chlorooctadecane (S...	12.845	3219479	27.995 ug/ml
Spiked Amount 50.000		Recovery =	55.99%
Target Compounds			
1) T n-Nonane (C9)	3.225	5000439	36.517 ug/ml
2) T n-Decane (C10)	4.276	5202713	37.475 ug/mlm
3) T A~Naphthalene (C11.7)	5.839	6042333	40.248 ug/ml
4) T n-Dodecane (C12)	6.280	5216755	37.343 ug/ml
5) T A~2-methylnaphthalene...	6.891	5412878	37.686 ug/ml
6) T n-Tetradecane (C14)	8.068	5247505	38.449 ug/ml
7) T n-Hexadecane (C16)	9.662	5111196	36.785 ug/ml
8) T n-Octadecane (C18)	11.100	4972539	35.539 ug/ml
10) T n-Eicosane (C20)	12.446	5845829	43.690 ug/ml
11) T n-Heneicosane (C21)	13.015	4782445	36.413 ug/ml
13) T n-Docosane (C22)	13.600	4707339	36.340 ug/mlm
14) T n-Tetracosane (C24)	14.658	9851546	76.734 ug/mlm
15) T n-Hexacosane (C26)	15.721	4495366	35.724 ug/ml
16) T n-Octacosane (C28)	16.667	4444165	35.533 ug/ml
17) T n-Tricontane (C30)	17.554	4359529	33.728 ug/ml
18) T n-Dotriacontane (C32)	18.384	4374678	34.994 ug/ml
19) T n-Tetratriacontane (C34)	19.167	4312595	39.756 ug/ml
20) T n-Hexatriacontane (C36)	19.906	4086835	44.161 ug/ml
21) T n-Octatriacontane (C38)	20.618	4071720	47.518 ug/mlm
22) T n-Tetracontane (C40)	21.473	4072767	50.368 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068197.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 15:58
Operator : YP/AJ
Sample : Q1290-03MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

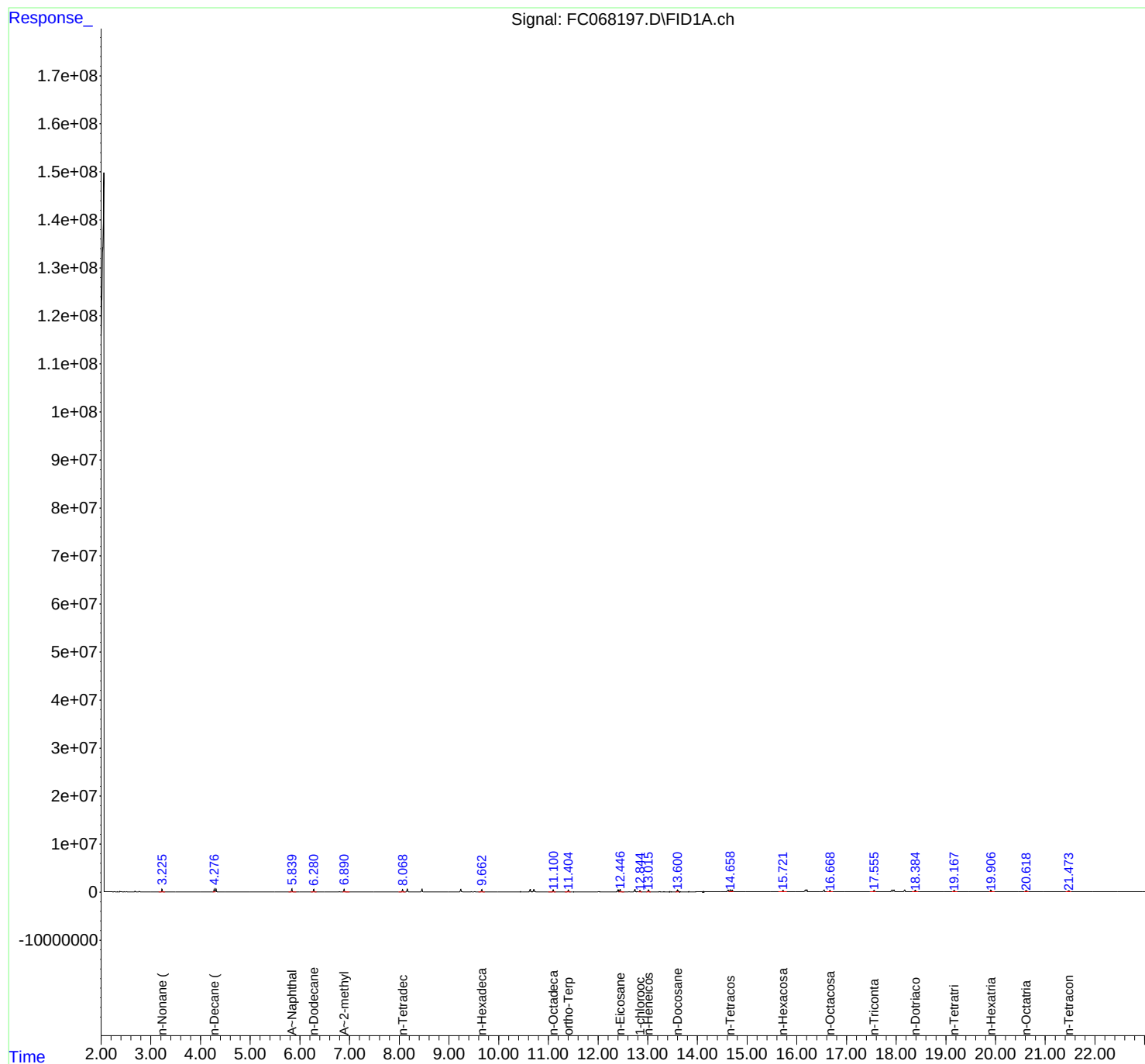
Instrument :
FID_C
ClientSampleId :
1MS

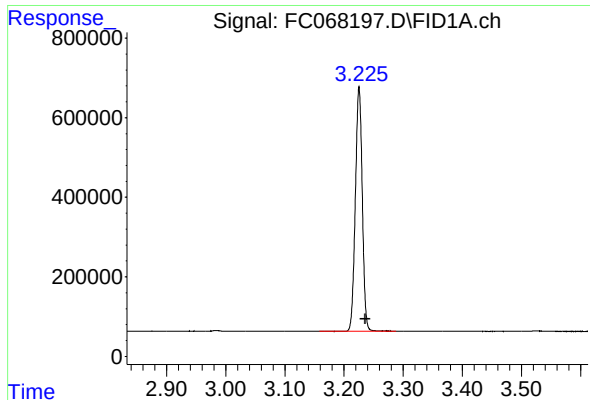
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:13:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





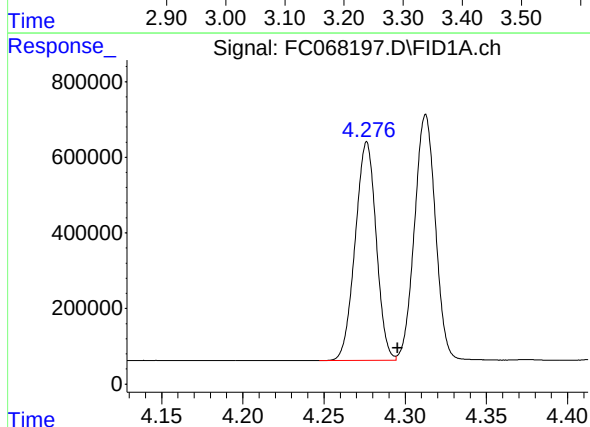
#1 n-Nonane (C9)

R.T.: 3.225 min
Delta R.T.: -0.011 min
Response: 5000439
Conc: 36.52 ug/ml

Instrument :
FID_C
ClientSampleId :
1MS

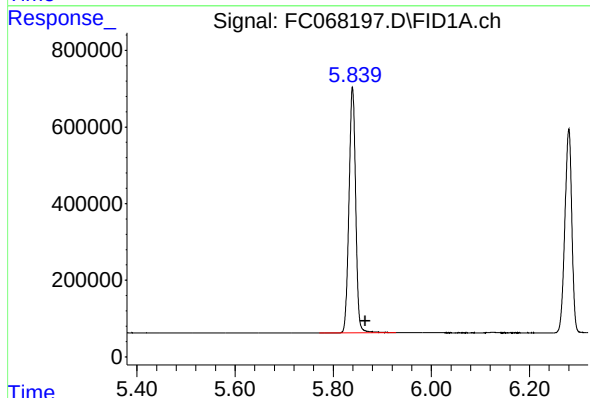
Manual Integrations
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Supervised By :Ankita Jodhani 02/06/2025



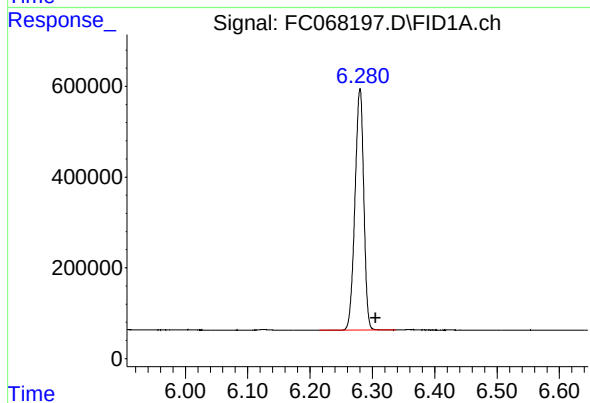
#2 n-Decane (C10)

R.T.: 4.276 min
Delta R.T.: -0.019 min
Response: 5202713
Conc: 37.47 ug/ml



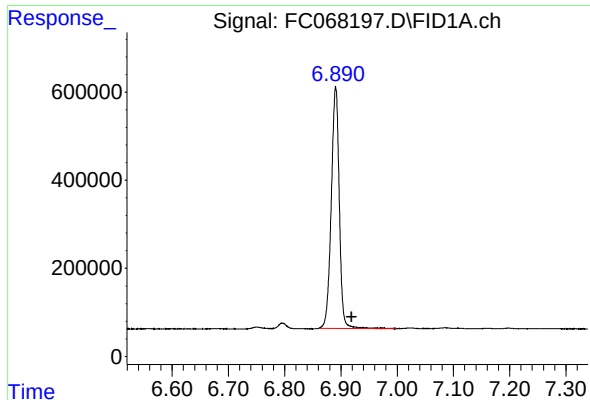
#3 A~Naphthalene (C11.7)

R.T.: 5.839 min
Delta R.T.: -0.026 min
Response: 6042333
Conc: 40.25 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.280 min
Delta R.T.: -0.026 min
Response: 5216755
Conc: 37.34 ug/ml



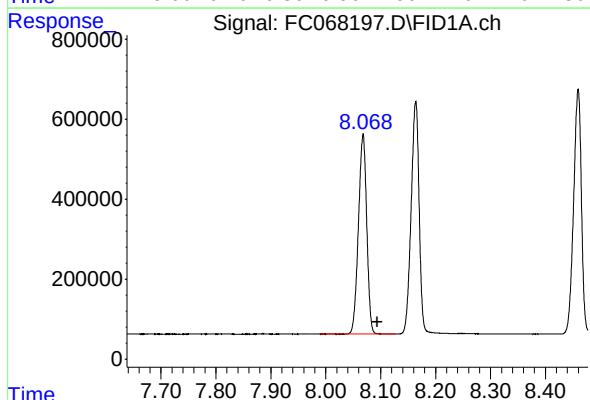
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.891 min
Delta R.T.: -0.029 min
Response: 5412878
Conc: 37.69 ug/ml

Instrument :
FID_C
ClientSampleId :
1MS

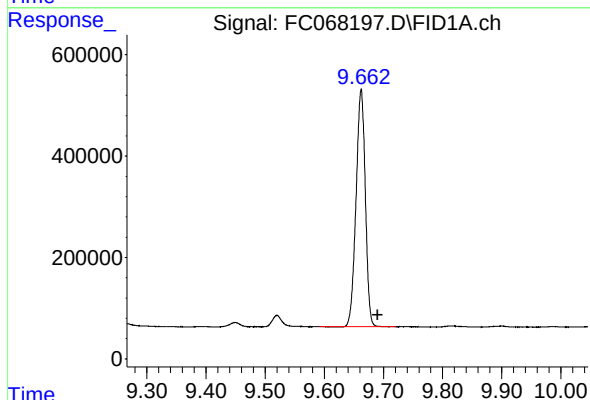
Manual Integrations
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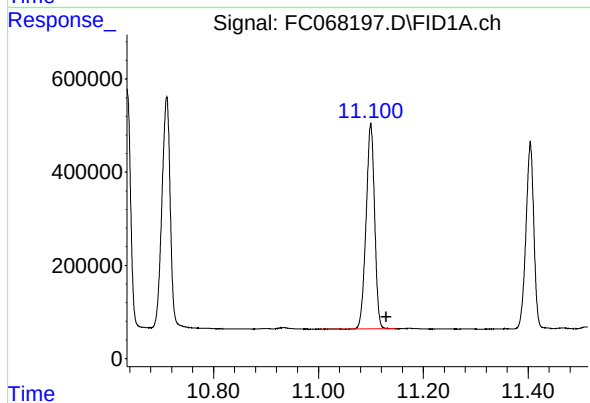
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: -0.026 min
Response: 5247505
Conc: 38.45 ug/ml



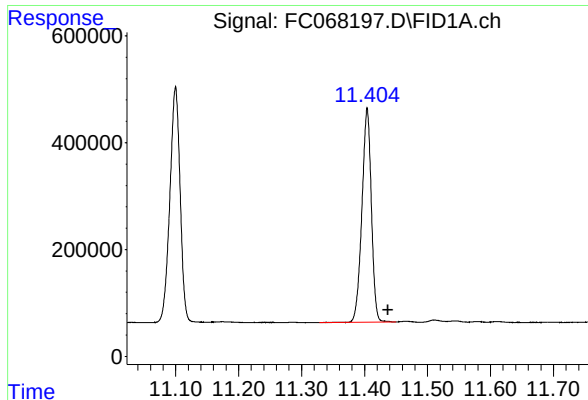
#7 n-Hexadecane (C16)

R.T.: 9.662 min
Delta R.T.: -0.028 min
Response: 5111196
Conc: 36.78 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.100 min
Delta R.T.: -0.030 min
Response: 4972539
Conc: 35.54 ug/ml



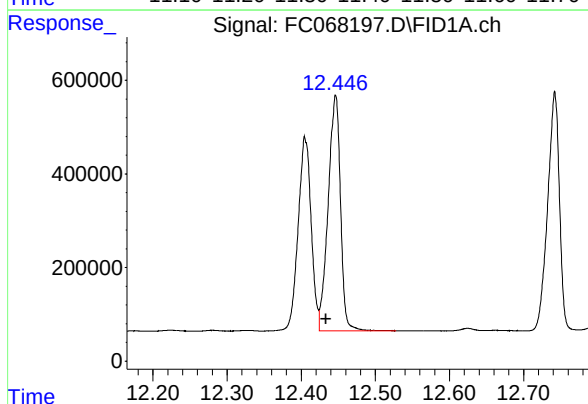
#9 ortho-Terphenyl (SURR)

R.T.: 11.404 min
Delta R.T.: -0.033 min
Response: 4169262
Conc: 26.68 ug/ml

Instrument :
FID_C
ClientSampleId :
1MS

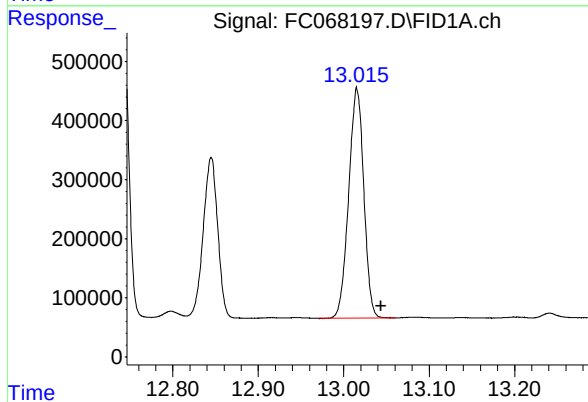
Manual Integrations
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Supervised By :Ankita Jodhani 02/06/2025



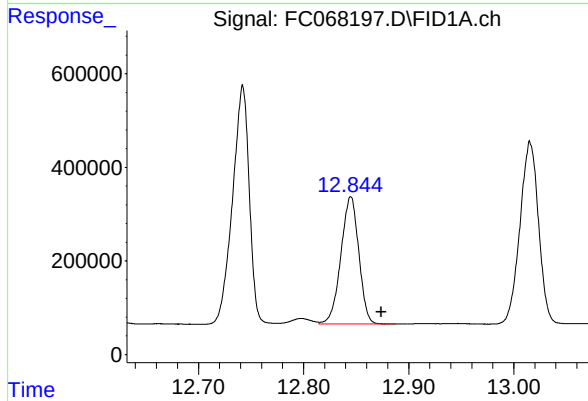
#10 n-Eicosane (C20)

R.T.: 12.446 min
Delta R.T.: 0.012 min
Response: 5845829
Conc: 43.69 ug/ml



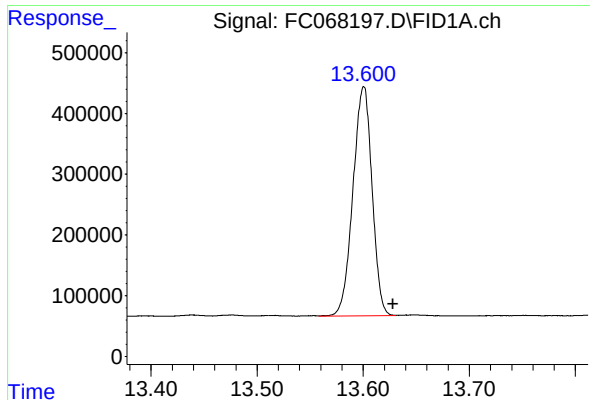
#11 n-Heneicosane (C21)

R.T.: 13.015 min
Delta R.T.: -0.028 min
Response: 4782445
Conc: 36.41 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.845 min
Delta R.T.: -0.029 min
Response: 3219479
Conc: 27.99 ug/ml



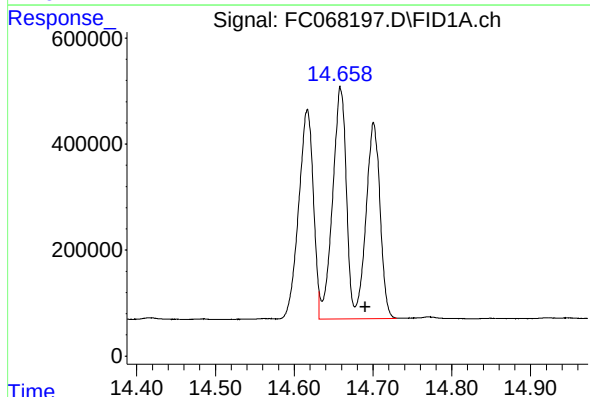
#13 n-Docosane (C22)

R.T.: 13.600 min
Delta R.T.: -0.028 min
Response: 4707339
Conc: 36.34 ug/ml

Instrument :
FID_C
ClientSampleId :
1MS

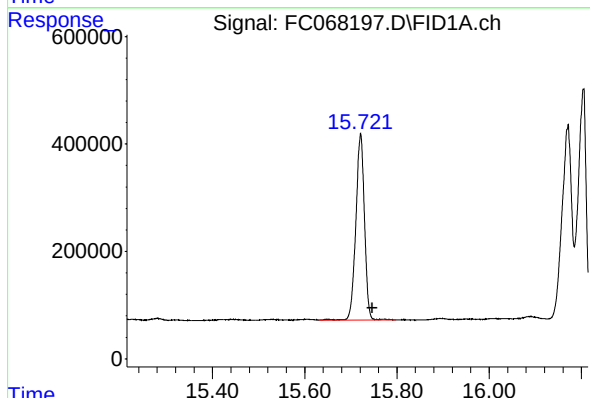
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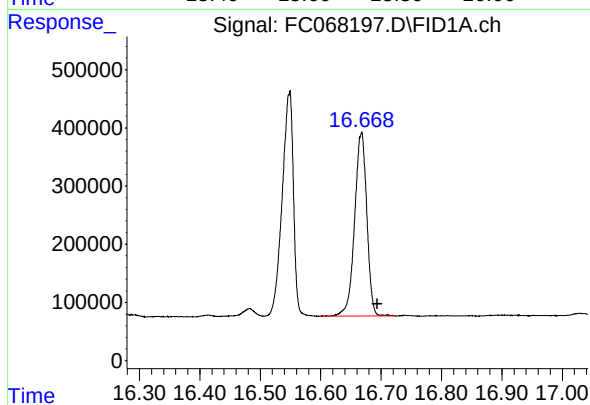
#14 n-Tetracosane (C24)

R.T.: 14.658 min
Delta R.T.: -0.032 min
Response: 9851546
Conc: 76.73 ug/ml m



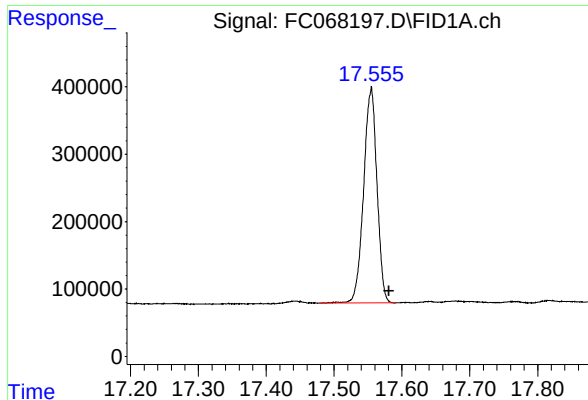
#15 n-Hexacosane (C26)

R.T.: 15.721 min
Delta R.T.: -0.025 min
Response: 4495366
Conc: 35.72 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.667 min
Delta R.T.: -0.027 min
Response: 4444165
Conc: 35.53 ug/ml



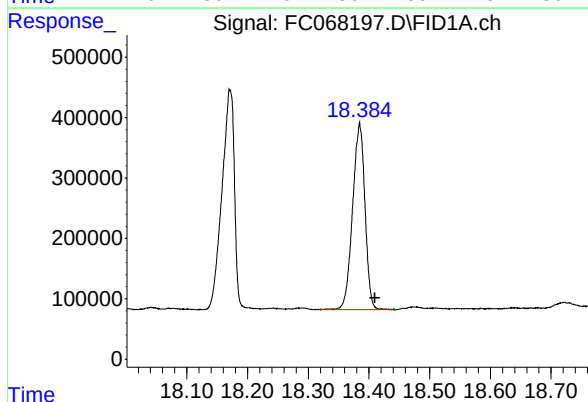
#17 n-Tricontane (C30)

R.T.: 17.554 min
Delta R.T.: -0.026 min
Response: 4359529
Conc: 33.73 ug/ml

Instrument :
FID_C
ClientSampleId :
1MS

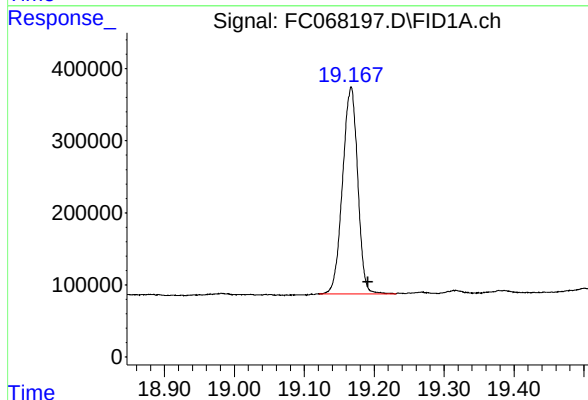
Manual Integrations
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Supervised By :Ankita Jodhani 02/06/2025



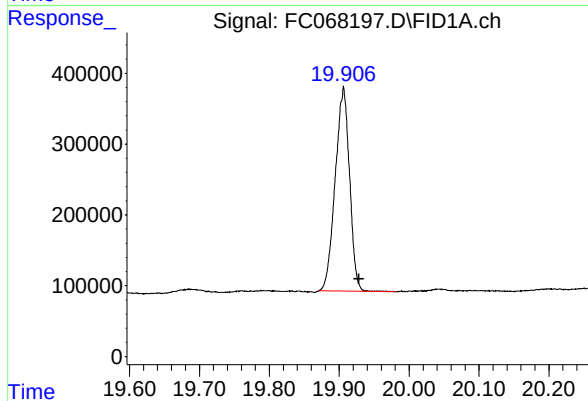
#18 n-Dotriacontane (C32)

R.T.: 18.384 min
Delta R.T.: -0.026 min
Response: 4374678
Conc: 34.99 ug/ml



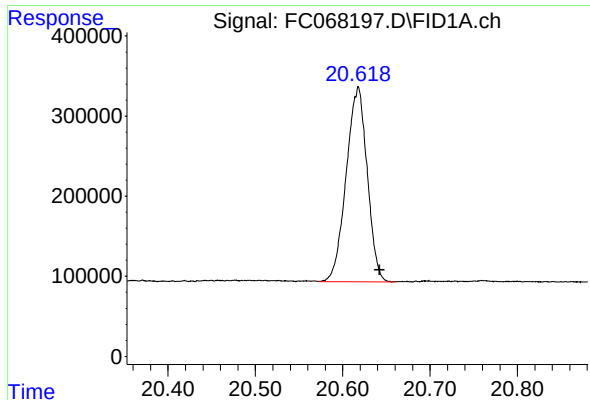
#19 n-Tetratriacontane (C34)

R.T.: 19.167 min
Delta R.T.: -0.024 min
Response: 4312595
Conc: 39.76 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.906 min
Delta R.T.: -0.023 min
Response: 4086835
Conc: 44.16 ug/ml



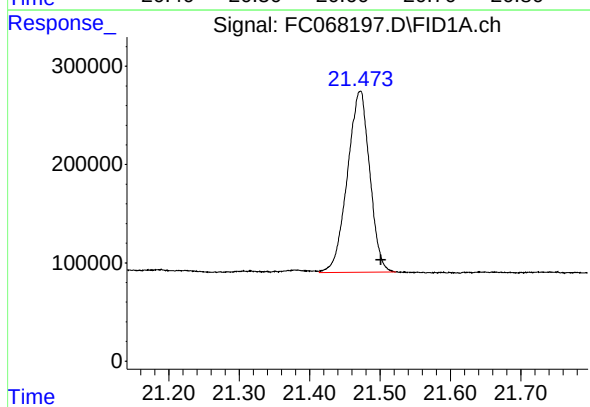
#21 n-Octatriacontane (C38)

R.T.: 20.618 min
Delta R.T.: -0.024 min
Response: 4071720
Conc: 47.52 ug/ml

Instrument :
FID_C
ClientSampleId :
1MS

Manual Integrations
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Supervised By :Ankita Jodhani 02/06/2025



#22 n-Tetracontane (C40)

R.T.: 21.473 min
Delta R.T.: -0.029 min
Response: 4072767
Conc: 50.37 ug/ml m

rteres

Instrument :

FID_C

ClientSampleId :

1MS

Area Percent Report

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Supervised By :Ankita Jodhani 02/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068197.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 15:58
Sample : Q1290-03MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.022	3.005	3.033	BV	195	1289	0.02%	0.001%
2	3.051	3.033	3.095	VV	259	4126	0.07%	0.002%
3	3.122	3.095	3.194	PV	340	9474	0.15%	0.004%
4	3.225	3.194	3.331	VV	608409	5032268	81.61%	2.359%
5	3.344	3.331	3.384	VV	545	9898	0.16%	0.005%
6	3.399	3.384	3.418	VV	321	6137	0.10%	0.003%
7	3.423	3.418	3.445	VV	375	3836	0.06%	0.002%
8	3.526	3.445	3.578	VV	1125	31499	0.51%	0.015%
9	3.589	3.578	3.653	VV	206	6578	0.11%	0.003%
10	3.663	3.653	3.690	VV	132	1799	0.03%	0.001%
11	3.710	3.690	3.775	VV	393	8629	0.14%	0.004%
12	3.791	3.775	3.839	PV	379	7626	0.12%	0.004%
13	3.877	3.839	3.956	VV	3954	68764	1.12%	0.032%
14	3.967	3.956	4.025	VV	490	12230	0.20%	0.006%
15	4.041	4.025	4.062	VV	925	11421	0.19%	0.005%
16	4.080	4.062	4.125	VV	563	9715	0.16%	0.005%
17	4.148	4.125	4.164	VV	165	2767	0.04%	0.001%
18	4.183	4.164	4.210	VV	139	1580	0.03%	0.001%
19	4.225	4.210	4.243	PV	123	1277	0.02%	0.001%
20	4.276	4.243	4.294	VV	577908	5202254	84.36%	2.438%
21	4.313	4.294	4.360	VV	646450	5865221	95.11%	2.749%
22	4.375	4.360	4.398	VV	2453	31522	0.51%	0.015%
23	4.419	4.398	4.514	VV	4207	62759	1.02%	0.029%
24	4.525	4.514	4.538	VV	405	4337	0.07%	0.002%
25	4.552	4.538	4.585	VV	395	6254	0.10%	0.003%
26	4.621	4.585	4.659	VV	291	9058	0.15%	0.004%
27	4.704	4.659	4.715	VV	220	4909	0.08%	0.002%
28	4.732	4.715	4.761	VV	237	4735	0.08%	0.002%
29	4.769	4.761	4.785	VV	183	1775	0.03%	0.001%
30	4.864	4.785	4.890	VV	393	12948	0.21%	0.006%
31	4.918	4.890	4.963	VV	266	7246	0.12%	0.003%
32	4.984	4.963	5.001	VV	291	4268	0.07%	0.002%
33	5.012	5.001	5.088	VV	261	6692	0.11%	0.003%
34	5.125	5.088	5.185	VV	1647	22938	0.37%	0.011%
35	5.199	5.185	5.230	VV	137	2473	0.04%	0.001%
36	5.253	5.230	5.280	VV	177	2093	0.03%	0.001%

					retention			
37	5.302	5.280	5.320	VV	1538	16088	0.26%	0.008%
38	5.338	5.320	5.451	VV	2934	46519		
39	5.458	5.451	5.471	VV	185	1651		
40	5.480	5.471	5.525	VV	180	2765		
41	5.541	5.525	5.593	VV	171	4237		
42	5.605	5.593	5.618	VV	136	1152		
43	5.631	5.618	5.645	PV	142	1621	0.03%	0.001%
44	5.649	5.645	5.701	VV	145	3319	0.05%	0.002%
45	5.706	5.701	5.774	VV	139	4869	0.08%	0.002%
46	5.782	5.774	5.798	VV	157	1238	0.02%	0.001%
47	5.839	5.798	5.974	VV	636407	6107390	99.04%	2.863%
48	6.002	5.974	6.051	VV	1107	28522	0.46%	0.013%
49	6.059	6.051	6.073	VV	404	4381	0.07%	0.002%
50	6.082	6.073	6.101	VV	384	4980	0.08%	0.002%
51	6.125	6.101	6.228	VV	1578	35877	0.58%	0.017%
52	6.234	6.228	6.244	VV	228	1895	0.03%	0.001%
53	6.280	6.244	6.340	VV	537582	5244897	85.05%	2.458%
54	6.359	6.340	6.411	VV	1468	32809	0.53%	0.015%
55	6.425	6.411	6.485	VV	678	16550	0.27%	0.008%
56	6.495	6.485	6.534	VV	331	7053	0.11%	0.003%
57	6.556	6.534	6.585	VV	361	7648	0.12%	0.004%
58	6.598	6.585	6.648	VV	278	8081	0.13%	0.004%
59	6.681	6.648	6.724	VV	422	9974	0.16%	0.005%
60	6.751	6.724	6.775	PV	4072	53521	0.87%	0.025%
61	6.796	6.775	6.851	VV	13418	147448	2.39%	0.069%
62	6.891	6.851	6.965	VV	552595	5495079	89.11%	2.576%
63	6.973	6.965	7.003	VV	1764	30448	0.49%	0.014%
64	7.023	7.003	7.042	VV	2203	32255	0.52%	0.015%
65	7.085	7.042	7.148	VV	2625	78237	1.27%	0.037%
66	7.161	7.148	7.180	VV	1433	18418	0.30%	0.009%
67	7.198	7.180	7.222	VV	1804	23581	0.38%	0.011%
68	7.256	7.222	7.306	VV	775	24136	0.39%	0.011%
69	7.318	7.306	7.337	VV	278	4157	0.07%	0.002%
70	7.365	7.337	7.452	VV	930	23013	0.37%	0.011%
71	7.476	7.452	7.511	VV	316	5474	0.09%	0.003%
72	7.524	7.511	7.538	VV	231	1996	0.03%	0.001%
73	7.620	7.538	7.668	VV	663	20493	0.33%	0.010%
74	7.683	7.668	7.735	VV	391	6317	0.10%	0.003%
75	7.762	7.735	7.782	VV	634	8579	0.14%	0.004%
76	7.795	7.782	7.803	VV	296	3094	0.05%	0.001%
77	7.821	7.803	7.845	VV	488	6607	0.11%	0.003%
78	7.886	7.845	7.905	VV	875	10624	0.17%	0.005%
79	7.926	7.905	7.946	VV	360	6035	0.10%	0.003%
80	7.973	7.946	7.998	VV	450	9489	0.15%	0.004%
81	8.009	7.998	8.031	VV	331	3896	0.06%	0.002%
82	8.068	8.031	8.128	VV	499188	5273697	85.52%	2.472%
83	8.164	8.128	8.233	VV	586607	5966384	96.75%	2.797%
84	8.247	8.233	8.333	VV	1795	55039	0.89%	0.026%
85	8.351	8.333	8.381	VV	556	10772	0.17%	0.005%
86	8.459	8.381	8.553	VV	604716	6166566	100.00%	2.890%
87	8.571	8.553	8.588	VV	1715	27089	0.44%	0.013%
88	8.608	8.588	8.627	VV	1666	28658	0.46%	0.013%
89	8.645	8.627	8.675	VV	1651	26336	0.43%	0.012%

Instrument :

FID_C

ClientSampleId :

1MS

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90	8.696	8.675	8.716	VV	1108	18899	0.31%	0.009%
91	8.734	8.716	8.760	VV	1428	24084		
92	8.799	8.760	8.835	VV	1646	38041		
93	8.887	8.835	8.948	VV	1400	36729		
94	8.970	8.948	9.007	VV	2503	28848		
95	9.021	9.007	9.061	PV	227	4446		
96	9.077	9.061	9.101	VV	378	5374	0.09%	0.003%
97	9.119	9.101	9.131	VV	200	2783	0.05%	0.001%
98	9.157	9.131	9.171	VV	334	4924	0.08%	0.002%
99	9.182	9.171	9.198	VV	233	2261	0.04%	0.001%
100	9.240	9.198	9.367	VV	570550	5958276	96.62%	2.793%
101	9.393	9.367	9.421	VV	1015	23463	0.38%	0.011%
102	9.449	9.421	9.493	VV	9084	133784	2.17%	0.063%
103	9.520	9.493	9.578	VV	23435	299148	4.85%	0.140%
104	9.595	9.578	9.628	VV	1055	20844	0.34%	0.010%
105	9.662	9.628	9.722	VV	465610	5157539	83.64%	2.417%
106	9.738	9.722	9.788	VV	907	23080	0.37%	0.011%
107	9.815	9.788	9.868	VV	2455	46410	0.75%	0.022%
108	9.900	9.868	9.955	VV	2116	34026	0.55%	0.016%
109	9.987	9.955	10.013	VV	1117	14626	0.24%	0.007%
110	10.045	10.013	10.066	VV	651	11452	0.19%	0.005%
111	10.103	10.066	10.143	VV	556	17620	0.29%	0.008%
112	10.157	10.143	10.172	VV	333	4082	0.07%	0.002%
113	10.189	10.172	10.212	VV	249	3580	0.06%	0.002%
114	10.238	10.212	10.267	VV	272	5245	0.09%	0.002%
115	10.290	10.267	10.336	VV	1112	20784	0.34%	0.010%
116	10.354	10.336	10.381	VV	509	9539	0.15%	0.004%
117	10.399	10.381	10.406	VV	1181	12720	0.21%	0.006%
118	10.434	10.406	10.461	VV	5286	96430	1.56%	0.045%
119	10.467	10.461	10.498	VV	1224	16311	0.26%	0.008%
120	10.517	10.498	10.555	VV	349	8511	0.14%	0.004%
121	10.635	10.555	10.677	PV	517627	5808667	94.20%	2.723%
122	10.710	10.677	10.874	VV	503586	5697931	92.40%	2.671%
123	10.900	10.874	10.914	VV	1596	25192	0.41%	0.012%
124	10.933	10.914	11.008	VV	3505	65880	1.07%	0.031%
125	11.031	11.008	11.055	VV	685	12446	0.20%	0.006%
126	11.100	11.055	11.148	VV	439882	5019522	81.40%	2.353%
127	11.174	11.148	11.214	VV	1832	44225	0.72%	0.021%
128	11.241	11.214	11.265	VV	617	13353	0.22%	0.006%
129	11.286	11.265	11.309	VV	625	9256	0.15%	0.004%
130	11.360	11.309	11.370	PV	937	16374	0.27%	0.008%
131	11.404	11.370	11.450	VV	401329	4209535	68.26%	1.973%
132	11.466	11.450	11.489	VV	2557	38122	0.62%	0.018%
133	11.511	11.489	11.530	VV	4637	69190	1.12%	0.032%
134	11.544	11.530	11.564	VV	3061	43777	0.71%	0.021%
135	11.580	11.564	11.595	VV	1872	23920	0.39%	0.011%
136	11.612	11.595	11.654	VV	1859	26077	0.42%	0.012%
137	11.694	11.654	11.717	VV	409	8377	0.14%	0.004%
138	11.764	11.717	11.775	VV	1035	17822	0.29%	0.008%
139	11.796	11.775	11.841	VV	3529	63612	1.03%	0.030%
140	11.859	11.841	11.891	VV	840	18884	0.31%	0.009%
141	11.907	11.891	11.948	VV	1333	24157	0.39%	0.011%

Instrument :

FID_C

ClientSampleId :

1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

				rters				
142	11.966	11.948	11.985	VV	382	4873	0.08%	0.002%
143	12.014	11.985	12.068	VV	47599	574514		
144	12.088	12.068	12.126	VV	1574	40329		
145	12.142	12.126	12.155	VV	590	8948		
146	12.173	12.155	12.200	VV	622	12725		
147	12.224	12.200	12.257	VV	2031	32861		
148	12.280	12.257	12.301	PV	1896	23477	0.38%	0.011%
149	12.328	12.301	12.348	VV	1613	23583	0.38%	0.011%
150	12.406	12.348	12.424	VV	415394	5072638	82.26%	2.378%
151	12.446	12.424	12.558	VV	493132	5883167	95.40%	2.758%
152	12.577	12.558	12.595	VV	486	5554	0.09%	0.003%
153	12.625	12.595	12.645	VV	5577	69843	1.13%	0.033%
154	12.661	12.645	12.705	VV	1347	26647	0.43%	0.012%
155	12.742	12.705	12.775	VV	506710	5654210	91.69%	2.650%
156	12.798	12.775	12.815	VV	12500	171696	2.78%	0.080%
157	12.845	12.815	12.888	VV	272918	3247320	52.66%	1.522%
158	12.915	12.888	12.931	VV	1294	23413	0.38%	0.011%
159	12.945	12.931	12.978	VV	1322	20802	0.34%	0.010%
160	13.015	12.978	13.061	PV	388337	4801537	77.86%	2.251%
161	13.083	13.061	13.120	VV	1848	37477	0.61%	0.018%
162	13.139	13.120	13.174	VV	1075	17497	0.28%	0.008%
163	13.202	13.174	13.220	VV	1759	26642	0.43%	0.012%
164	13.241	13.220	13.278	VV	8453	107681	1.75%	0.050%
165	13.328	13.278	13.373	VV	3293	67470	1.09%	0.032%
166	13.395	13.373	13.414	VV	669	9103	0.15%	0.004%
167	13.439	13.414	13.457	VV	2102	27833	0.45%	0.013%
168	13.475	13.457	13.497	VV	1978	28452	0.46%	0.013%
169	13.514	13.497	13.537	VV	1182	16958	0.28%	0.008%
170	13.600	13.537	13.635	VV	380862	4739268	76.85%	2.221%
171	13.648	13.635	13.701	VV	1761	31702	0.51%	0.015%
172	13.753	13.701	13.792	VV	772	19787	0.32%	0.009%
173	13.823	13.792	13.873	VV	964	27239	0.44%	0.013%
174	13.890	13.873	13.917	VV	567	8225	0.13%	0.004%
175	13.927	13.917	13.951	VV	215	2423	0.04%	0.001%
176	13.987	13.951	14.018	PV	4004	73082	1.19%	0.034%
177	14.028	14.018	14.045	VV	1611	21984	0.36%	0.010%
178	14.065	14.045	14.108	VV	4180	66758	1.08%	0.031%
179	14.161	14.108	14.184	VV	1818	33932	0.55%	0.016%
180	14.235	14.184	14.275	VV	3709	109925	1.78%	0.052%
181	14.299	14.275	14.326	VV	5333	80348	1.30%	0.038%
182	14.366	14.326	14.395	VV	5054	99272	1.61%	0.047%
183	14.417	14.395	14.465	VV	3751	76360	1.24%	0.036%
184	14.484	14.465	14.518	VV	1601	28898	0.47%	0.014%
185	14.563	14.518	14.577	VV	1920	44219	0.72%	0.021%
186	14.617	14.577	14.636	VV	396026	5226315	84.75%	2.450%
187	14.659	14.636	14.678	VV	438244	5224750	84.73%	2.449%
188	14.701	14.678	14.735	VV	370748	4612217	74.79%	2.162%
189	14.771	14.735	14.821	VV	4788	128449	2.08%	0.060%
190	14.850	14.821	14.898	VV	1702	59611	0.97%	0.028%
191	14.922	14.898	15.015	VV	2352	106087	1.72%	0.050%
192	15.074	15.015	15.167	VV	21145	418492	6.79%	0.196%
193	15.186	15.167	15.195	VV	1043	14270	0.23%	0.007%
194	15.226	15.195	15.250	VV	3059	69487	1.13%	0.033%

Instrument :

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Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 02/06/2025

195	15.281	15.250	15.306	VV	4568	89332	1.45%	0.042%
196	15.322	15.306	15.359	VV	1605	30359		
197	15.444	15.359	15.492	VV	2245	92795		
198	15.528	15.492	15.569	VV	2087	55327		
199	15.606	15.569	15.631	VV	2170	47903		
200	15.649	15.631	15.666	VV	1645	25027		
201	15.721	15.666	15.756	VV	345659	4479167	72.64%	2.099%
202	15.772	15.756	15.798	VV	1623	28056	0.45%	0.013%
203	15.814	15.798	15.839	VV	510	7894	0.13%	0.004%
204	15.896	15.839	15.927	PV	2708	60242	0.98%	0.028%
205	15.951	15.927	15.980	VV	1676	36453	0.59%	0.017%
206	16.011	15.980	16.022	VV	2128	40566	0.66%	0.019%
207	16.032	16.022	16.050	VV	2092	32072	0.52%	0.015%
208	16.088	16.050	16.125	VV	5876	148788	2.41%	0.070%
209	16.170	16.125	16.185	VV	362136	5276215	85.56%	2.473%
210	16.203	16.185	16.248	VV	439557	5121711	83.06%	2.401%
211	16.279	16.248	16.315	VV	5439	144388	2.34%	0.068%
212	16.329	16.315	16.343	VV	2166	30237	0.49%	0.014%
213	16.357	16.343	16.390	VV	1766	43635	0.71%	0.020%
214	16.413	16.390	16.431	VV	4224	65389	1.06%	0.031%
215	16.482	16.431	16.506	VV	15102	266088	4.32%	0.125%
216	16.548	16.506	16.597	VV	387148	5094591	82.62%	2.388%
217	16.667	16.597	16.726	VV	318222	4574747	74.19%	2.144%
218	16.741	16.726	16.768	VV	2621	51064	0.83%	0.024%
219	16.791	16.768	16.829	VV	2023	65226	1.06%	0.031%
220	16.837	16.829	16.860	VV	1762	29160	0.47%	0.014%
221	16.906	16.860	16.944	VV	2602	108075	1.75%	0.051%
222	16.971	16.944	16.991	VV	1806	47949	0.78%	0.022%
223	17.029	16.991	17.088	VV	5438	168400	2.73%	0.079%
224	17.116	17.088	17.158	VV	5960	132112	2.14%	0.062%
225	17.197	17.158	17.231	VV	2450	77678	1.26%	0.036%
226	17.266	17.231	17.291	VV	1971	57394	0.93%	0.027%
227	17.312	17.291	17.327	VV	1223	23618	0.38%	0.011%
228	17.345	17.327	17.371	VV	1494	31139	0.50%	0.015%
229	17.389	17.371	17.408	VV	1342	27512	0.45%	0.013%
230	17.442	17.408	17.481	VV	5025	125106	2.03%	0.059%
231	17.554	17.481	17.591	VV	319406	4486979	72.76%	2.103%
232	17.606	17.591	17.621	VV	2493	40382	0.65%	0.019%
233	17.640	17.621	17.656	VV	3872	64994	1.05%	0.030%
234	17.678	17.656	17.741	VV	4364	160013	2.59%	0.075%
235	17.764	17.741	17.790	VV	3371	71155	1.15%	0.033%
236	17.818	17.790	17.871	VV	4846	151786	2.46%	0.071%
237	17.917	17.871	17.933	VV	370185	5604775	90.89%	2.627%
238	17.955	17.933	18.017	VV	379463	5260288	85.30%	2.466%
239	18.041	18.017	18.061	VV	6981	130863	2.12%	0.061%
240	18.074	18.061	18.118	VV	5184	138234	2.24%	0.065%
241	18.171	18.118	18.224	VV	368576	5405981	87.67%	2.534%
242	18.241	18.224	18.270	VV	4919	112718	1.83%	0.053%
243	18.290	18.270	18.313	VV	5179	102187	1.66%	0.048%
244	18.384	18.313	18.443	VV	309584	4538525	73.60%	2.127%
245	18.475	18.443	18.501	VV	6019	154218	2.50%	0.072%
246	18.509	18.501	18.532	VV	4276	68105	1.10%	0.032%

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Manual IntegrationsAPPROVED

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Supervised By :Ankita Jodhani 02/06/2025

rteres									
247	18.545	18.532	18.618	VV	3226	155938	2.53%	0.073%	
248	18.639	18.618	18.661	VV	4227	93772			
249	18.677	18.661	18.691	VV	4092	70195			
250	18.722	18.691	18.756	VV	13163	353031			
251	18.775	18.756	18.811	VV	8348	216238			
252	18.837	18.811	18.863	VV	6222	161702			
253	18.880	18.863	18.931	VV	5181	178597	2.90%	0.084%	
254	18.982	18.931	19.031	VV	6504	292962	4.75%	0.137%	
255	19.048	19.031	19.070	VV	4270	96688	1.57%	0.045%	
256	19.167	19.070	19.231	VV	294831	4790458	77.68%	2.245%	
257	19.267	19.231	19.290	VV	7343	216700	3.51%	0.102%	
258	19.316	19.290	19.355	VV	9595	273350	4.43%	0.128%	
259	19.384	19.355	19.438	VV	9034	357970	5.81%	0.168%	
260	19.501	19.438	19.552	VV	12140	575757	9.34%	0.270%	
261	19.567	19.552	19.620	VV	7361	264902	4.30%	0.124%	
262	19.687	19.620	19.735	VV	11271	543279	8.81%	0.255%	
263	19.795	19.735	19.825	VV	8929	442374	7.17%	0.207%	
264	19.841	19.825	19.863	VV	8376	178362	2.89%	0.084%	
265	19.906	19.863	19.982	VV	287644	4638013	75.21%	2.174%	
266	20.043	19.982	20.078	VV	10339	480510	7.79%	0.225%	
267	20.088	20.078	20.151	VV	8242	334271	5.42%	0.157%	
268	20.200	20.151	20.227	VV	10259	408596	6.63%	0.192%	
269	20.277	20.227	20.332	VV	13048	666310	10.81%	0.312%	
270	20.344	20.332	20.365	VV	8960	177643	2.88%	0.083%	
271	20.371	20.365	20.431	VV	9321	320526	5.20%	0.150%	
272	20.476	20.431	20.575	VV	9098	705824	11.45%	0.331%	
273	20.617	20.575	20.677	VV	250997	4474349	72.56%	2.097%	
274	20.760	20.677	20.967	VV	7663	1034613	16.78%	0.485%	
275	21.022	20.967	21.161	VV	7094	638421	10.35%	0.299%	
276	21.185	21.161	21.261	VV	4679	215371	3.49%	0.101%	
277	21.313	21.261	21.343	VV	3026	116149	1.88%	0.054%	
278	21.380	21.343	21.411	VV	3663	116163	1.88%	0.054%	
279	21.471	21.411	21.615	VV	185874	4187302	67.90%	1.963%	
Sum of corrected areas:					213346823				

Instrument :

FID_C

ClientSampleId :

1MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Aliphatic EPH 012425.M Thu Feb 06 04:41:50 2025

Report of Analysis

Client:	Sciaccia General Contractors, LLC	Date Collected:	
Project:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	1MSD	SDG No.:	Q1290
Lab Sample ID:	Q1290-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
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
02/05/25 09:25	02/05/25 16:35	PB166564

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C28	Aliphatic C9-C28	89.7		1	2.04	4.73	mg/kg	FC068198.D
Total EPH	Total EPH	89.7			2.04	4.73	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:	305 Central Ave, West Caldwell	Date Received:	
Client Sample ID:	1MSD	SDG No.:	Q1290
Lab Sample ID:	Q1290-03MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.4
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
FC068198.D	1	02/05/25	02/05/25	PB166564

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	89.7		2.04	4.73	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	42.6		2.13	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	28.9		40 - 140	58%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.5		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1290-03MSD	Acq On:	05 Feb 2025 16:35
Client Sample ID:	1MSD	Operator:	YP/AJ
Data file:	FC068198.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.110	6.377	28437691	205.344	300	ug/ml
Aliphatic C12-C16	6.378	9.761	35947207	261.03	200	ug/ml
Aliphatic C16-C21	9.762	13.114	40203007	297.758	300	ug/ml
Aliphatic C21-C28	13.115	16.766	47345137	372.188	400	ug/ml
Aliphatic C28-C40	16.767	21.570	56014285	540.476	600	ug/ml
Aliphatic EPH	3.110	21.570	207947327	1680		ug/ml
ortho-Terphenyl (SURR)	11.404	11.404	4301527	27.53		ug/ml
1-chlorooctadecane (SURR)	12.846	12.846	3325967	28.92		ug/ml
Aliphatic C9-C28	3.110	16.766	151933042	1140	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
 Data File : FC068198.D
 Signal(s) : FID1A.ch
 Acq On : 05 Feb 2025 16:35
 Operator : YP/AJ
 Sample : Q1290-03MSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_C
 ClientSampleId :
 1MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
 Quant Time: Feb 06 04:13:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
 Quant Title : GC Extractables
 QLast Update : Sat Jan 25 04:31:18 2025
 Response via : Initial Calibration
 Integrator: ChemStation

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

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
9) S ortho-Terphenyl (SURR)	11.404	4301527	27.527 ug/ml
Spiked Amount 50.000		Recovery =	55.05%
12) S 1-chlorooctadecane (S...	12.846	3325967	28.921 ug/ml
Spiked Amount 50.000		Recovery =	57.84%
Target Compounds			
1) T n-Nonane (C9)	3.225	5059240	36.947 ug/ml
2) T n-Decane (C10)	4.276	5274752	37.994 ug/mlm
3) T A~Naphthalene (C11.7)	5.840	6134009	40.859 ug/ml
4) T n-Dodecane (C12)	6.280	5306399	37.985 ug/ml
5) T A~2-methylnaphthalene...	6.891	5502320	38.308 ug/ml
6) T n-Tetradecane (C14)	8.068	5346178	39.172 ug/ml
7) T n-Hexadecane (C16)	9.663	5199295	37.419 ug/ml
8) T n-Octadecane (C18)	11.100	5041796	36.034 ug/ml
10) T n-Eicosane (C20)	12.447	5875470	43.912 ug/ml
11) T n-Heneicosane (C21)	13.015	4832091	36.791 ug/ml
13) T n-Docosane (C22)	13.601	4735002	36.554 ug/ml
14) T n-Tetracosane (C24)	14.659	9772123	76.115 ug/mlm
15) T n-Hexacosane (C26)	15.721	4480247	35.604 ug/ml
16) T n-Octacosane (C28)	16.667	4461707	35.673 ug/ml
17) T n-Tricontane (C30)	17.553	4371445	33.820 ug/ml
18) T n-Dotriacontane (C32)	18.384	4404616	35.234 ug/ml
19) T n-Tetratriacontane (C34)	19.166	4348329	40.086 ug/ml
20) T n-Hexatriacontane (C36)	19.904	4127988	44.606 ug/ml
21) T n-Octatriacontane (C38)	20.617	4121303	48.097 ug/mlm
22) T n-Tetracontane (C40)	21.472	4095664	50.652 ug/mlm

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC020525AL\
Data File : FC068198.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 16:35
Operator : YP/AJ
Sample : Q1290-03MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

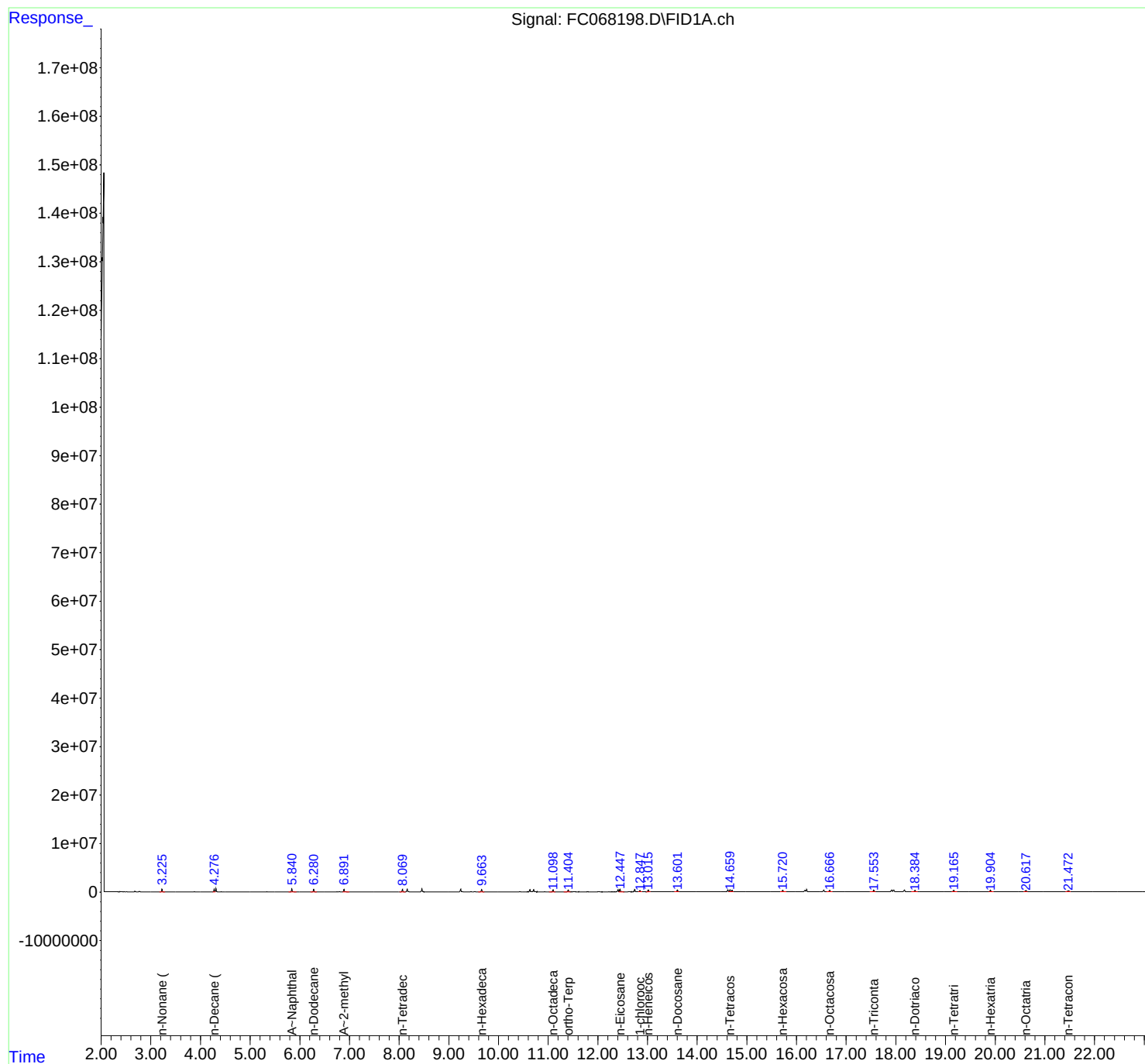
Instrument :
FID_C
ClientSampleId :
1MSD

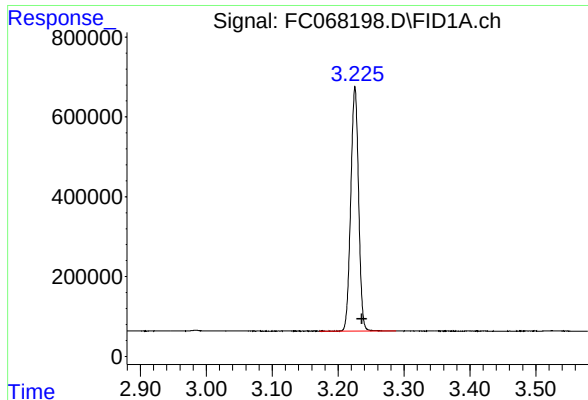
Manual Integrations
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Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Integration File: autoint1.e
Quant Time: Feb 06 04:13:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_C\Method\Aliphatic EPH 012425.M
Quant Title : GC Extractables
QLast Update : Sat Jan 25 04:31:18 2025
Response via : Initial Calibration
Integrator: ChemStation

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





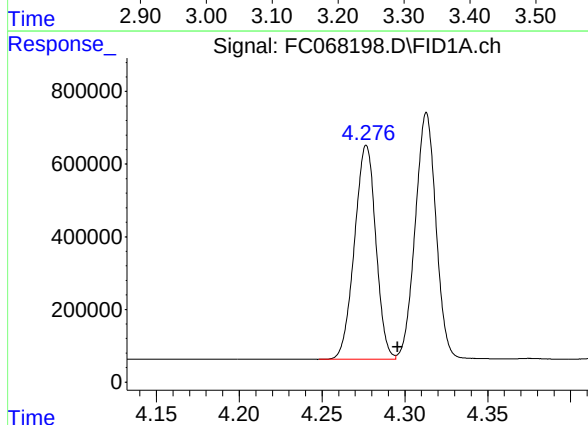
#1 n-Nonane (C9)

R.T.: 3.225 min
Delta R.T.: -0.011 min
Response: 5059240
Conc: 36.95 ug/ml

Instrument :
FID_C
ClientSampleId :
1MSD

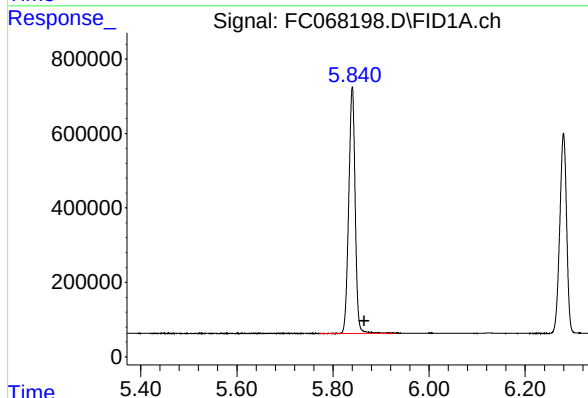
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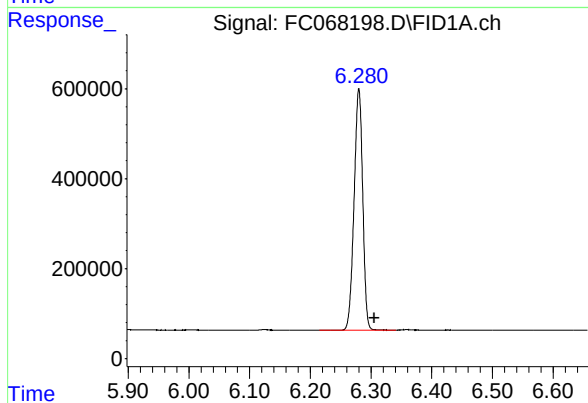
#2 n-Decane (C10)

R.T.: 4.276 min
Delta R.T.: -0.019 min
Response: 5274752
Conc: 37.99 ug/ml



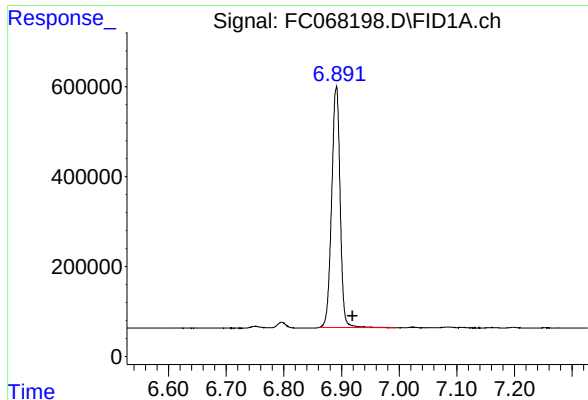
#3 A~Naphthalene (C11.7)

R.T.: 5.840 min
Delta R.T.: -0.025 min
Response: 6134009
Conc: 40.86 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.280 min
Delta R.T.: -0.026 min
Response: 5306399
Conc: 37.98 ug/ml



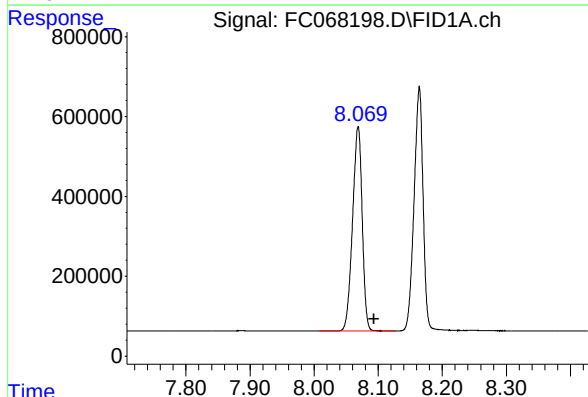
#5 A~2-methylnaphthalene (C12.89)

R.T.: 6.891 min
Delta R.T.: -0.028 min
Response: 5502320
Conc: 38.31 ug/ml

Instrument :
FID_C
ClientSampleId :
1MSD

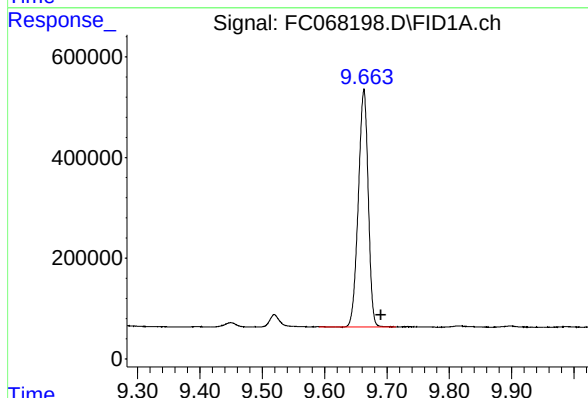
Manual Integrations
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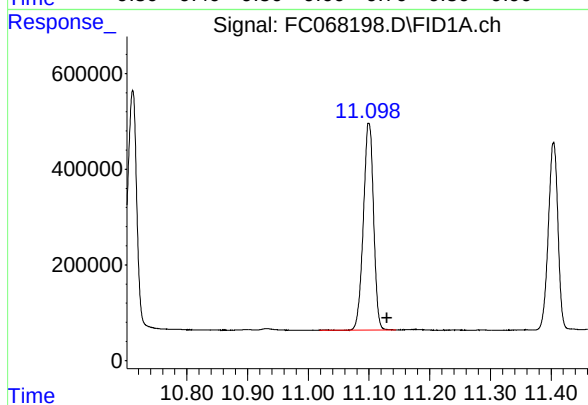
#6 n-Tetradecane (C14)

R.T.: 8.068 min
Delta R.T.: -0.026 min
Response: 5346178
Conc: 39.17 ug/ml



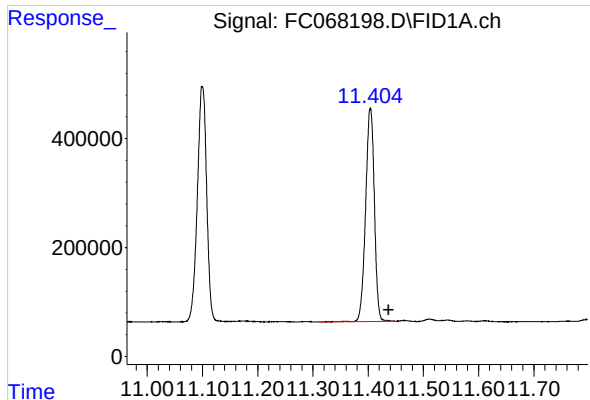
#7 n-Hexadecane (C16)

R.T.: 9.663 min
Delta R.T.: -0.027 min
Response: 5199295
Conc: 37.42 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.100 min
Delta R.T.: -0.030 min
Response: 5041796
Conc: 36.03 ug/ml



#9 ortho-Terphenyl (SURR)

R.T.: 11.404 min
Delta R.T.: -0.033 min
Response: 4301527
Conc: 27.53 ug/ml

Instrument :

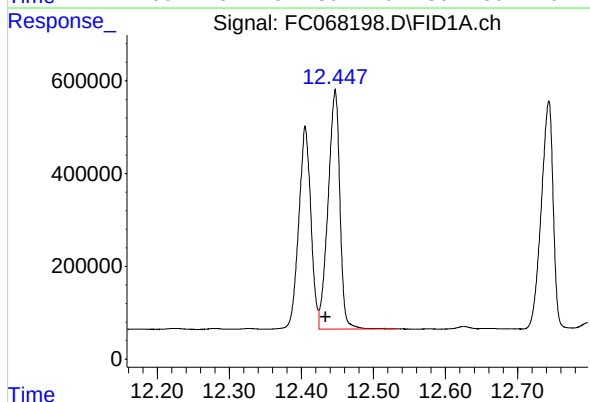
FID_C

ClientSampleId :

1MSD

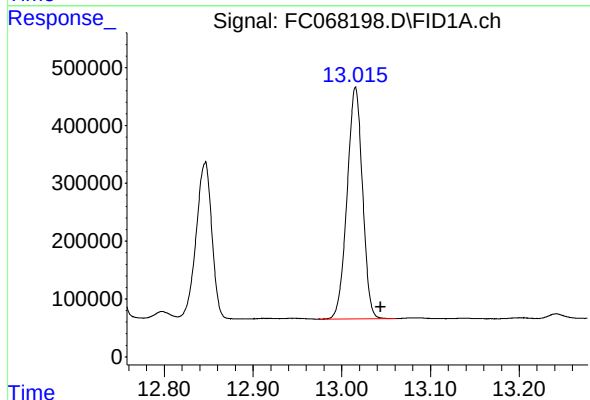
Manual Integrations
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Supervised By :Ankita Jodhani 02/06/2025



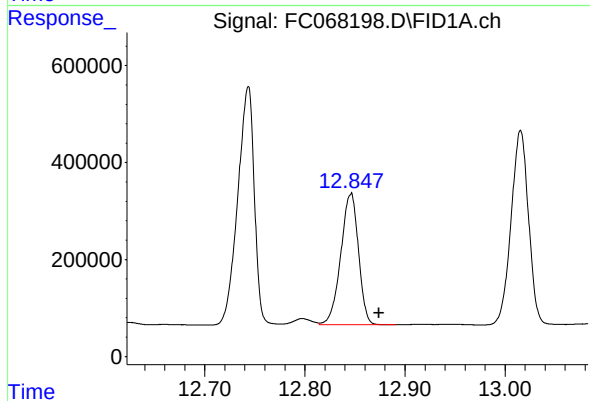
#10 n-Eicosane (C20)

R.T.: 12.447 min
Delta R.T.: 0.013 min
Response: 5875470
Conc: 43.91 ug/ml



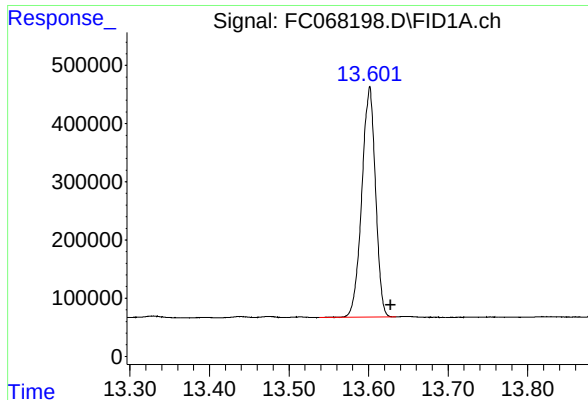
#11 n-Heneicosane (C21)

R.T.: 13.015 min
Delta R.T.: -0.028 min
Response: 4832091
Conc: 36.79 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 12.846 min
Delta R.T.: -0.028 min
Response: 3325967
Conc: 28.92 ug/ml



#13 n-Docosane (C22)

R.T.: 13.601 min
Delta R.T.: -0.027 min
Response: 4735002
Conc: 36.55 ug/ml

Instrument :

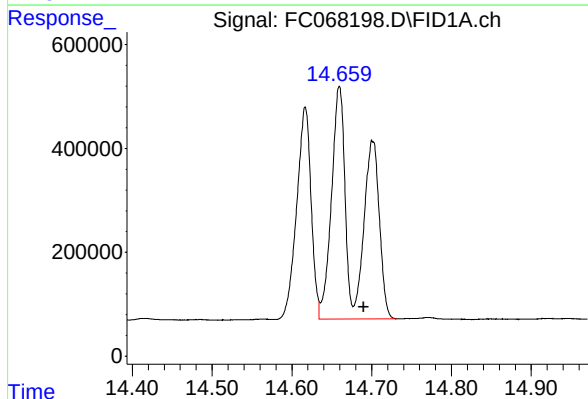
FID_C

ClientSampleId :

1MSD

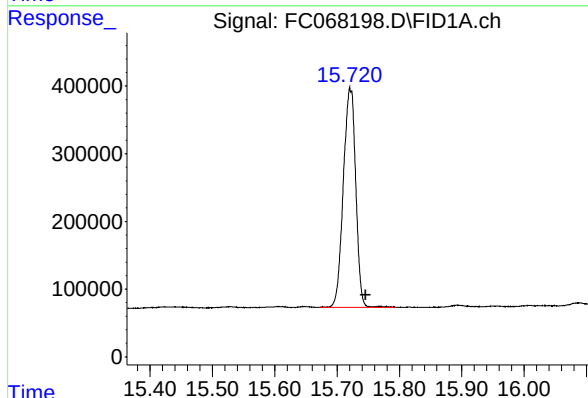
Manual Integrations
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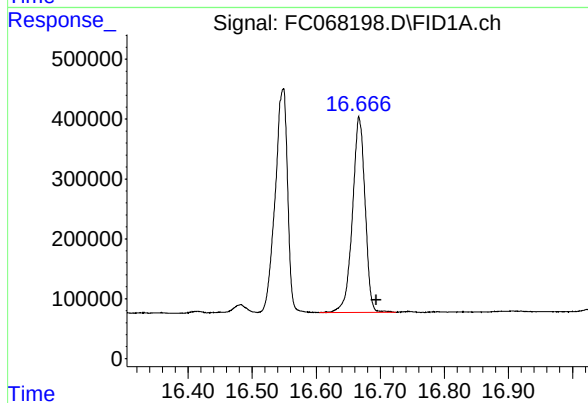
#14 n-Tetracosane (C24)

R.T.: 14.659 min
Delta R.T.: -0.031 min
Response: 9772123
Conc: 76.12 ug/ml



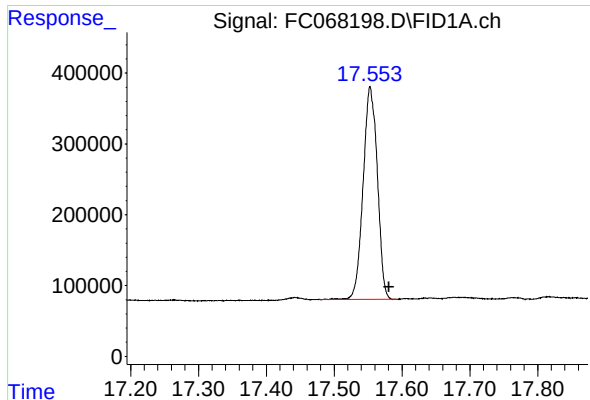
#15 n-Hexacosane (C26)

R.T.: 15.721 min
Delta R.T.: -0.025 min
Response: 4480247
Conc: 35.60 ug/ml



#16 n-Octacosane (C28)

R.T.: 16.667 min
Delta R.T.: -0.027 min
Response: 4461707
Conc: 35.67 ug/ml



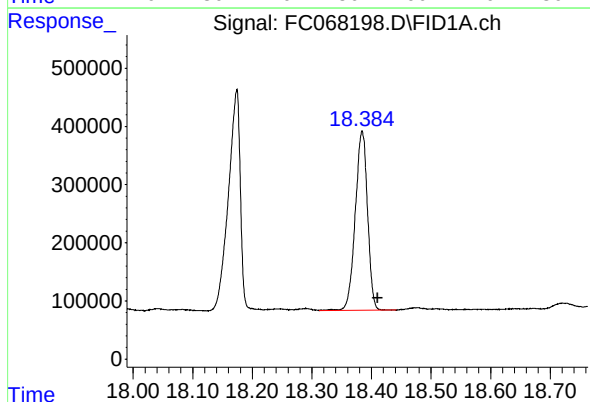
#17 n-Tricontane (C30)

R.T.: 17.553 min
Delta R.T.: -0.027 min
Response: 4371445
Conc: 33.82 ug/ml

Instrument :
FID_C
ClientSampleId :
1MSD

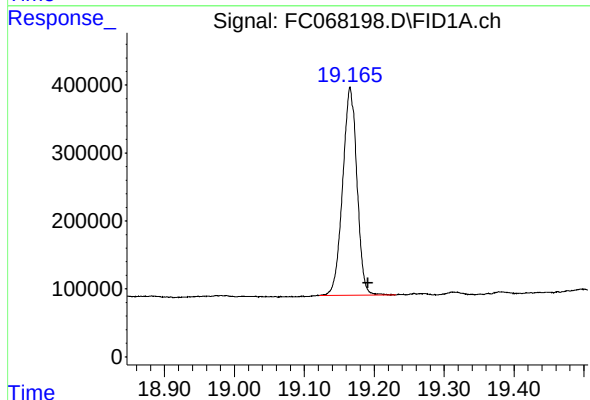
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025



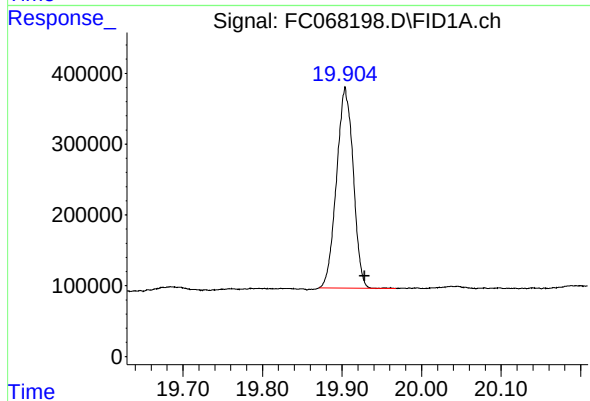
#18 n-Dotriacontane (C32)

R.T.: 18.384 min
Delta R.T.: -0.026 min
Response: 4404616
Conc: 35.23 ug/ml



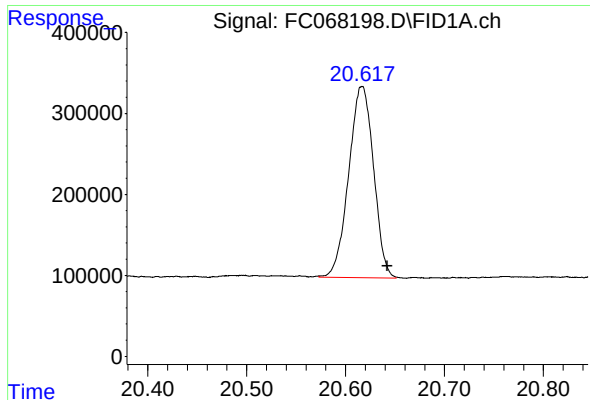
#19 n-Tetratriacontane (C34)

R.T.: 19.166 min
Delta R.T.: -0.025 min
Response: 4348329
Conc: 40.09 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 19.904 min
Delta R.T.: -0.024 min
Response: 4127988
Conc: 44.61 ug/ml



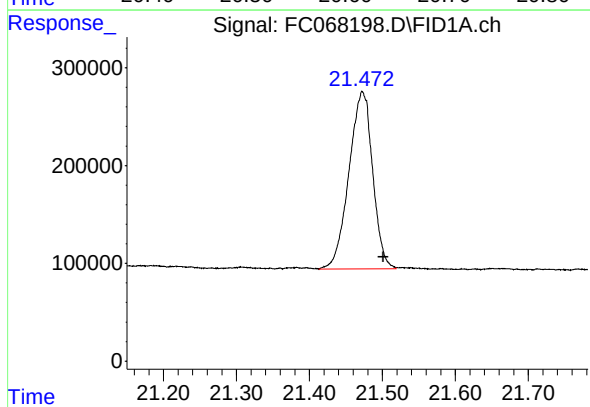
#21 n-Octatriacontane (C38)

R.T.: 20.617 min
Delta R.T.: -0.025 min
Response: 4121303
Conc: 48.10 ug/ml

Instrument :
FID_C
ClientSampleId :
1MSD

Manual Integrations
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Supervised By :Ankita Jodhani 02/06/2025



#22 n-Tetracontane (C40)

R.T.: 21.472 min
Delta R.T.: -0.029 min
Response: 4095664
Conc: 50.65 ug/ml

rteres

Instrument :

FID_C

ClientSampleId :

1MSD

Area Percent Report

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Supervised By :Ankita Jodhani 02/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_C\Data\FC02052
Data File : FC068198.D
Signal(s) : FID1A.ch
Acq On : 05 Feb 2025 16:35
Sample : Q1290-03MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File: sample.E

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

Signal : FID1A.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.022	3.004	3.032	BV	127	1134	0.02%	0.001%
2	3.053	3.032	3.097	VV	314	4784	0.08%	0.002%
3	3.122	3.097	3.146	PV	283	4859	0.08%	0.002%
4	3.163	3.146	3.198	VV	199	3851	0.06%	0.002%
5	3.225	3.198	3.330	VV	603852	5088617	81.52%	2.360%
6	3.343	3.330	3.384	VV	574	11861	0.19%	0.005%
7	3.398	3.384	3.413	VV	402	5737	0.09%	0.003%
8	3.422	3.413	3.448	VV	415	5350	0.09%	0.002%
9	3.458	3.448	3.467	VV	262	2509	0.04%	0.001%
10	3.483	3.467	3.506	VV	424	8214	0.13%	0.004%
11	3.525	3.506	3.573	VV	1189	22788	0.37%	0.011%
12	3.589	3.573	3.611	VV	315	4773	0.08%	0.002%
13	3.624	3.611	3.691	VV	144	5205	0.08%	0.002%
14	3.709	3.691	3.741	PV	478	6948	0.11%	0.003%
15	3.752	3.741	3.770	VV	185	2163	0.03%	0.001%
16	3.792	3.770	3.834	VV	339	7404	0.12%	0.003%
17	3.877	3.834	3.914	VV	4200	55406	0.89%	0.026%
18	3.923	3.914	3.955	VV	949	15489	0.25%	0.007%
19	3.966	3.955	4.020	VV	446	10405	0.17%	0.005%
20	4.040	4.020	4.063	VV	961	11264	0.18%	0.005%
21	4.078	4.063	4.140	VV	487	8107	0.13%	0.004%
22	4.153	4.140	4.184	VV	135	1484	0.02%	0.001%
23	4.191	4.184	4.231	VV	132	1514	0.02%	0.001%
24	4.277	4.231	4.294	VV	592888	5279196	84.57%	2.448%
25	4.313	4.294	4.360	VV	675805	5948234	95.29%	2.758%
26	4.375	4.360	4.400	VV	2479	31077	0.50%	0.014%
27	4.419	4.400	4.465	VV	4188	50799	0.81%	0.024%
28	4.475	4.465	4.514	VV	375	7751	0.12%	0.004%
29	4.526	4.514	4.538	VV	362	3785	0.06%	0.002%
30	4.550	4.538	4.588	VV	326	5468	0.09%	0.003%
31	4.620	4.588	4.638	VV	203	4477	0.07%	0.002%
32	4.648	4.638	4.673	VV	177	2533	0.04%	0.001%
33	4.686	4.673	4.711	VV	196	2795	0.04%	0.001%
34	4.732	4.711	4.750	VV	236	3439	0.06%	0.002%
35	4.792	4.750	4.814	VV	155	3599	0.06%	0.002%
36	4.862	4.814	4.898	PV	402	12609	0.20%	0.006%

					retention				
37	4.910	4.898	4.932	VV	335	4761	0.08%	0.002%	
38	4.948	4.932	4.971	VV	247	4585			
39	4.983	4.971	5.001	VV	254	3158			
40	5.013	5.001	5.081	VV	226	6221			
41	5.125	5.081	5.172	VV	1779	23512			
42	5.183	5.172	5.216	VV	192	3581			
43	5.225	5.216	5.281	VV	134	3817	0.06%	0.002%	
44	5.302	5.281	5.324	VV	1532	16969	0.27%	0.008%	
45	5.338	5.324	5.395	VV	3162	44402	0.71%	0.021%	
46	5.415	5.395	5.456	VV	353	7991	0.13%	0.004%	
47	5.477	5.456	5.521	VV	249	6022	0.10%	0.003%	
48	5.536	5.521	5.596	VV	207	8157	0.13%	0.004%	
49	5.630	5.596	5.654	VV	208	4770	0.08%	0.002%	
50	5.672	5.654	5.682	VV	221	2762	0.04%	0.001%	
51	5.701	5.682	5.728	VV	232	5323	0.09%	0.002%	
52	5.746	5.728	5.775	VV	261	5326	0.09%	0.002%	
53	5.840	5.775	5.984	VV	666469	6206506	99.43%	2.878%	
54	6.003	5.984	6.044	VV	1070	23525	0.38%	0.011%	
55	6.055	6.044	6.078	VV	426	6936	0.11%	0.003%	
56	6.087	6.078	6.095	VV	314	2950	0.05%	0.001%	
57	6.125	6.095	6.154	VV	1600	24617	0.39%	0.011%	
58	6.166	6.154	6.244	VV	434	14748	0.24%	0.007%	
59	6.280	6.244	6.341	VV	537683	5334628	85.46%	2.474%	
60	6.359	6.341	6.408	VV	1534	32714	0.52%	0.015%	
61	6.424	6.408	6.454	VV	725	13898	0.22%	0.006%	
62	6.467	6.454	6.485	VV	427	6231	0.10%	0.003%	
63	6.495	6.485	6.534	VV	374	8422	0.13%	0.004%	
64	6.555	6.534	6.578	VV	406	8492	0.14%	0.004%	
65	6.597	6.578	6.653	VV	385	12370	0.20%	0.006%	
66	6.682	6.653	6.724	VV	432	11055	0.18%	0.005%	
67	6.750	6.724	6.775	VV	4210	55484	0.89%	0.026%	
68	6.796	6.775	6.851	VV	13402	151742	2.43%	0.070%	
69	6.891	6.851	7.003	VV	538499	5616192	89.97%	2.604%	
70	7.024	7.003	7.043	VV	2307	34489	0.55%	0.016%	
71	7.085	7.043	7.144	VV	2689	80850	1.30%	0.037%	
72	7.161	7.144	7.180	VV	1513	21356	0.34%	0.010%	
73	7.198	7.180	7.224	VV	1938	25415	0.41%	0.012%	
74	7.254	7.224	7.314	VV	855	27956	0.45%	0.013%	
75	7.320	7.314	7.338	VV	340	3978	0.06%	0.002%	
76	7.366	7.338	7.396	VV	962	17614	0.28%	0.008%	
77	7.406	7.396	7.454	VV	343	8690	0.14%	0.004%	
78	7.476	7.454	7.495	VV	374	6272	0.10%	0.003%	
79	7.524	7.495	7.574	VV	303	8127	0.13%	0.004%	
80	7.618	7.574	7.635	VV	798	14710	0.24%	0.007%	
81	7.644	7.635	7.667	VV	477	6956	0.11%	0.003%	
82	7.683	7.667	7.703	VV	374	5567	0.09%	0.003%	
83	7.717	7.703	7.729	VV	204	2200	0.04%	0.001%	
84	7.761	7.729	7.783	PV	620	8288	0.13%	0.004%	
85	7.794	7.783	7.808	VV	338	3899	0.06%	0.002%	
86	7.820	7.808	7.847	VV	569	6398	0.10%	0.003%	
87	7.887	7.847	7.906	VV	989	13455	0.22%	0.006%	
88	7.925	7.906	7.951	VV	363	6916	0.11%	0.003%	
89	7.980	7.951	7.995	VV	470	8991	0.14%	0.004%	

Instrument :

FID_C

ClientSampleId :

1MSD

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Supervised By :Ankita Jodhani 02/06/2025

					rters				
90	8.009	7.995	8.028	VV	365	4977	0.08%	0.002%	
91	8.068	8.028	8.128	VV	511274	5366490	85.12%	2.712%	
92	8.164	8.128	8.232	VV	613619	6040949	96.61%	2.658%	
93	8.247	8.232	8.334	VV	1837	57156	0.03%	0.001%	
94	8.350	8.334	8.379	VV	510	10395	0.05%	0.002%	
95	8.460	8.379	8.553	VV	626709	6242140	100.56%	2.793%	
96	8.572	8.553	8.587	VV	1863	27233	0.44%	0.013%	
97	8.608	8.587	8.628	VV	1732	29508	0.47%	0.014%	
98	8.646	8.628	8.672	VV	1653	25198	0.40%	0.012%	
99	8.695	8.672	8.715	VV	1060	18983	0.30%	0.009%	
100	8.732	8.715	8.761	VV	1496	24729	0.40%	0.011%	
101	8.799	8.761	8.837	VV	1696	38292	0.61%	0.018%	
102	8.887	8.837	8.928	VV	1471	33096	0.53%	0.015%	
103	8.930	8.928	8.947	VV	380	2577	0.04%	0.001%	
104	8.970	8.947	9.008	VV	2479	28748	0.46%	0.013%	
105	9.024	9.008	9.038	VV	244	2509	0.04%	0.001%	
106	9.048	9.038	9.059	VV	142	1388	0.02%	0.001%	
107	9.076	9.059	9.108	VV	347	5013	0.08%	0.002%	
108	9.121	9.108	9.130	VV	95	1052	0.02%	0.000%	
109	9.155	9.130	9.198	VV	271	5949	0.10%	0.003%	
110	9.240	9.198	9.367	VV	577817	6022577	96.48%	2.793%	
111	9.394	9.367	9.417	VV	1116	23087	0.37%	0.011%	
112	9.450	9.417	9.494	VV	9125	137082	2.20%	0.064%	
113	9.519	9.494	9.576	VV	25072	310134	4.97%	0.144%	
114	9.594	9.576	9.628	VV	1123	22913	0.37%	0.011%	
115	9.663	9.628	9.715	VV	471949	5240955	83.96%	2.430%	
116	9.734	9.715	9.785	VV	1011	28064	0.45%	0.013%	
117	9.815	9.785	9.867	VV	2644	50260	0.81%	0.023%	
118	9.898	9.867	9.948	VV	2310	37985	0.61%	0.018%	
119	9.959	9.948	9.963	VV	190	1297	0.02%	0.001%	
120	9.988	9.963	10.018	VV	1098	16459	0.26%	0.008%	
121	10.047	10.018	10.068	VV	661	13778	0.22%	0.006%	
122	10.101	10.068	10.144	VV	698	21041	0.34%	0.010%	
123	10.155	10.144	10.174	VV	466	6008	0.10%	0.003%	
124	10.189	10.174	10.214	VV	296	4579	0.07%	0.002%	
125	10.235	10.214	10.264	PV	393	6174	0.10%	0.003%	
126	10.290	10.264	10.341	VV	1215	25325	0.41%	0.012%	
127	10.352	10.341	10.381	VV	593	11045	0.18%	0.005%	
128	10.399	10.381	10.407	VV	1351	14394	0.23%	0.007%	
129	10.434	10.407	10.458	VV	5586	97240	1.56%	0.045%	
130	10.467	10.458	10.517	VV	1234	22477	0.36%	0.010%	
131	10.533	10.517	10.554	VV	396	5444	0.09%	0.003%	
132	10.635	10.554	10.677	PV	510134	5848186	93.69%	2.712%	
133	10.710	10.677	10.871	VV	505413	5732905	91.84%	2.658%	
134	10.899	10.871	10.914	VV	1626	26320	0.42%	0.012%	
135	10.932	10.914	10.981	VV	3755	59609	0.95%	0.028%	
136	10.992	10.981	11.003	VV	317	3701	0.06%	0.002%	
137	11.029	11.003	11.050	VV	631	11660	0.19%	0.005%	
138	11.100	11.050	11.146	VV	434174	5088815	81.52%	2.360%	
139	11.174	11.146	11.215	VV	1849	44828	0.72%	0.021%	
140	11.245	11.215	11.268	VV	561	12224	0.20%	0.006%	
141	11.287	11.268	11.310	VV	647	7755	0.12%	0.004%	

Instrument :

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142	11.359	11.310	11.370	PV	977	17255	0.28%	0.008%
143	11.404	11.370	11.450	VV	393872	4342812	69.06%	2.373%
144	11.465	11.450	11.489	VV	2583	37690	0.07%	0.002%
145	11.511	11.489	11.530	VV	5147	70888	0.07%	0.002%
146	11.544	11.530	11.564	VV	3272	45481	0.07%	0.002%
147	11.579	11.564	11.595	VV	1789	23436	0.08%	0.003%
148	11.611	11.595	11.654	VV	1954	25742	0.41%	0.012%
149	11.699	11.654	11.716	PV	407	8203	0.13%	0.004%
150	11.764	11.716	11.775	VV	1158	18572	0.30%	0.009%
151	11.795	11.775	11.841	VV	4004	66301	1.06%	0.031%
152	11.861	11.841	11.885	VV	978	18849	0.30%	0.009%
153	11.907	11.885	11.950	VV	1260	27042	0.43%	0.013%
154	11.963	11.950	11.983	VV	303	3897	0.06%	0.002%
155	12.014	11.983	12.067	VV	48162	602121	9.65%	0.279%
156	12.086	12.067	12.128	VV	1716	42148	0.68%	0.020%
157	12.138	12.128	12.159	VV	622	9835	0.16%	0.005%
158	12.174	12.159	12.198	VV	745	11233	0.18%	0.005%
159	12.225	12.198	12.256	VV	2013	33206	0.53%	0.015%
160	12.280	12.256	12.303	PV	2074	25582	0.41%	0.012%
161	12.328	12.303	12.351	VV	1755	26389	0.42%	0.012%
162	12.406	12.351	12.424	VV	433897	5117518	81.98%	2.373%
163	12.447	12.424	12.560	VV	518887	5914696	94.75%	2.743%
164	12.578	12.560	12.591	VV	536	6952	0.11%	0.003%
165	12.625	12.591	12.646	VV	5653	74249	1.19%	0.034%
166	12.659	12.646	12.702	VV	1427	28283	0.45%	0.013%
167	12.743	12.702	12.776	VV	501851	5665239	90.76%	2.627%
168	12.798	12.776	12.814	VV	13329	175751	2.82%	0.081%
169	12.846	12.814	12.891	VV	269224	3354454	53.74%	1.555%
170	12.916	12.891	12.930	VV	1307	22821	0.37%	0.011%
171	12.945	12.930	12.978	VV	1378	22965	0.37%	0.011%
172	13.015	12.978	13.061	PV	400274	4850797	77.71%	2.249%
173	13.083	13.061	13.119	VV	1923	40357	0.65%	0.019%
174	13.138	13.119	13.178	VV	1204	19839	0.32%	0.009%
175	13.202	13.178	13.219	VV	1786	25800	0.41%	0.012%
176	13.242	13.219	13.281	VV	8454	115072	1.84%	0.053%
177	13.329	13.281	13.375	VV	3265	67861	1.09%	0.031%
178	13.394	13.375	13.412	VV	691	7480	0.12%	0.003%
179	13.439	13.412	13.457	PV	2027	28508	0.46%	0.013%
180	13.474	13.457	13.495	VV	2161	28107	0.45%	0.013%
181	13.514	13.495	13.535	VV	1323	17766	0.28%	0.008%
182	13.601	13.535	13.634	VV	394293	4774545	76.49%	2.214%
183	13.647	13.634	13.707	VV	1698	31089	0.50%	0.014%
184	13.728	13.707	13.737	VV	406	4803	0.08%	0.002%
185	13.753	13.737	13.791	VV	557	10549	0.17%	0.005%
186	13.826	13.791	13.854	VV	930	20314	0.33%	0.009%
187	13.860	13.854	13.871	VV	338	3138	0.05%	0.001%
188	13.890	13.871	13.921	VV	629	9522	0.15%	0.004%
189	13.986	13.921	14.044	PV	4089	95981	1.54%	0.045%
190	14.064	14.044	14.118	VV	4058	66641	1.07%	0.031%
191	14.161	14.118	14.194	VV	1752	31330	0.50%	0.015%
192	14.235	14.194	14.275	VV	3674	101195	1.62%	0.047%
193	14.300	14.275	14.326	VV	5656	79259	1.27%	0.037%
194	14.366	14.326	14.398	VV	5352	98955	1.59%	0.046%

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195	14.415	14.398	14.461	VV	3576	70508	1.13%	0.033%
196	14.484	14.461	14.521	VV	1522	27361		
197	14.564	14.521	14.577	VV	1935	39689		
198	14.617	14.577	14.636	VV	412835	5230926	83.82%	2.002%
199	14.659	14.636	14.678	VV	449905	5225765	83.82%	2.002%
200	14.701	14.678	14.734	VV	346815	4627666	74.41%	1.877%
201	14.771	14.734	14.827	VV	4602	122536	1.96%	0.057%
202	14.850	14.827	14.898	VV	1542	46423	0.74%	0.022%
203	14.921	14.898	14.934	VV	2226	35635	0.57%	0.017%
204	14.945	14.934	15.017	VV	2071	55289	0.89%	0.026%
205	15.073	15.017	15.168	VV	21677	403540	6.46%	0.187%
206	15.223	15.168	15.248	VV	2750	71262	1.14%	0.033%
207	15.280	15.248	15.306	VV	4429	88184	1.41%	0.041%
208	15.321	15.306	15.347	VV	1607	20874	0.33%	0.010%
209	15.361	15.347	15.369	PV	366	2791	0.04%	0.001%
210	15.424	15.369	15.489	VV	1977	78114	1.25%	0.036%
211	15.528	15.489	15.558	VV	1860	42871	0.69%	0.020%
212	15.607	15.558	15.628	VV	1821	46761	0.75%	0.022%
213	15.648	15.628	15.669	VV	1805	26923	0.43%	0.012%
214	15.721	15.669	15.758	VV	323887	4487773	71.89%	2.081%
215	15.768	15.758	15.804	VV	1479	24530	0.39%	0.011%
216	15.815	15.804	15.850	VV	389	4319	0.07%	0.002%
217	15.894	15.850	15.934	PV	2835	59743	0.96%	0.028%
218	15.952	15.934	15.984	VV	1515	30316	0.49%	0.014%
219	16.009	15.984	16.018	VV	2230	31766	0.51%	0.015%
220	16.035	16.018	16.055	VV	1948	37847	0.61%	0.018%
221	16.088	16.055	16.128	VV	5582	136786	2.19%	0.063%
222	16.169	16.128	16.185	VV	351853	5275053	84.51%	2.446%
223	16.204	16.185	16.250	VV	457064	5169887	82.82%	2.397%
224	16.279	16.250	16.314	VV	4930	126981	2.03%	0.059%
225	16.328	16.314	16.341	VV	1657	22695	0.36%	0.011%
226	16.358	16.341	16.377	VV	1491	25626	0.41%	0.012%
227	16.414	16.377	16.432	VV	3689	62936	1.01%	0.029%
228	16.481	16.432	16.507	VV	14506	248435	3.98%	0.115%
229	16.547	16.507	16.604	VV	375212	5112699	81.91%	2.371%
230	16.667	16.604	16.724	VV	324323	4545825	72.82%	2.108%
231	16.744	16.724	16.771	VV	2368	41048	0.66%	0.019%
232	16.789	16.771	16.806	VV	1631	28583	0.46%	0.013%
233	16.828	16.806	16.867	VV	1414	43623	0.70%	0.020%
234	16.906	16.867	16.985	VV	2499	117024	1.87%	0.054%
235	17.028	16.985	17.090	VV	4856	148820	2.38%	0.069%
236	17.115	17.090	17.181	VV	5830	121455	1.95%	0.056%
237	17.198	17.181	17.218	VV	1707	27459	0.44%	0.013%
238	17.263	17.218	17.301	VV	1560	42496	0.68%	0.020%
239	17.443	17.301	17.474	VV	4379	111623	1.79%	0.052%
240	17.553	17.474	17.591	VV	296519	4465259	71.53%	2.071%
241	17.642	17.591	17.657	VV	3107	86669	1.39%	0.040%
242	17.686	17.657	17.740	VV	3725	129731	2.08%	0.060%
243	17.765	17.740	17.792	VV	2851	57462	0.92%	0.027%
244	17.815	17.792	17.869	VV	4101	123026	1.97%	0.057%
245	17.918	17.869	17.934	VV	373519	5673847	90.90%	2.631%
246	17.956	17.934	18.018	VV	397162	5248053	84.07%	2.434%

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				rters				
247	18.041	18.018	18.059	VV	5937	108762	1.74%	0.050%
248	18.082	18.059	18.121	VV	4272	121144		
249	18.173	18.121	18.219	VV	390647	5412949	86	
250	18.246	18.219	18.268	VV	4587	114009	3	
251	18.290	18.268	18.312	VV	5146	99426	1	
252	18.384	18.312	18.441	VV	309799	4549597	72	
253	18.476	18.441	18.501	VV	6028	147499	2.36%	0.068%
254	18.508	18.501	18.538	VV	3971	69985	1.12%	0.032%
255	18.643	18.538	18.651	VV	3610	188047	3.01%	0.087%
256	18.673	18.651	18.685	VV	4042	71265	1.14%	0.033%
257	18.723	18.685	18.756	VV	12850	363614	5.83%	0.169%
258	18.776	18.756	18.811	VV	8269	218781	3.50%	0.101%
259	18.840	18.811	18.858	VV	5849	145308	2.33%	0.067%
260	18.882	18.858	18.914	VV	5680	162047	2.60%	0.075%
261	18.983	18.914	19.048	VV	5569	368251	5.90%	0.171%
262	19.054	19.048	19.074	VV	3944	62502	1.00%	0.029%
263	19.166	19.074	19.231	VV	309325	4855621	77.79%	2.252%
264	19.239	19.231	19.244	VV	6491	50824	0.81%	0.024%
265	19.270	19.244	19.291	VV	7788	195711	3.14%	0.091%
266	19.315	19.291	19.358	VV	9676	299846	4.80%	0.139%
267	19.381	19.358	19.410	VV	9875	260742	4.18%	0.121%
268	19.498	19.410	19.519	VV	13393	661955	10.60%	0.307%
269	19.528	19.519	19.588	VV	10128	355009	5.69%	0.165%
270	19.594	19.588	19.609	VV	8099	91330	1.46%	0.042%
271	19.615	19.609	19.635	VV	6917	98461	1.58%	0.046%
272	19.685	19.635	19.734	VV	11699	505938	8.11%	0.235%
273	19.761	19.734	19.771	VV	8623	175408	2.81%	0.081%
274	19.794	19.771	19.816	VV	9036	233818	3.75%	0.108%
275	19.827	19.816	19.858	VV	8654	212069	3.40%	0.098%
276	19.904	19.858	19.945	VV	288752	4588047	73.50%	2.128%
277	19.955	19.945	19.980	VV	9144	185580	2.97%	0.086%
278	20.039	19.980	20.069	VV	11167	498686	7.99%	0.231%
279	20.079	20.069	20.084	VV	8622	79617	1.28%	0.037%
280	20.097	20.084	20.152	VV	8822	326729	5.23%	0.152%
281	20.194	20.152	20.213	VV	11486	371694	5.95%	0.172%
282	20.222	20.213	20.233	VV	11429	133273	2.14%	0.062%
283	20.280	20.233	20.332	VV	14923	716153	11.47%	0.332%
284	20.340	20.332	20.371	VV	10678	244943	3.92%	0.114%
285	20.380	20.371	20.414	VV	10078	238428	3.82%	0.111%
286	20.427	20.414	20.438	VV	9317	129250	2.07%	0.060%
287	20.447	20.438	20.461	VV	9412	121268	1.94%	0.056%
288	20.495	20.461	20.522	VV	10400	354799	5.68%	0.165%
289	20.532	20.522	20.565	VV	9708	241780	3.87%	0.112%
290	20.617	20.565	20.661	VV	244037	4546924	72.84%	2.108%
291	20.670	20.661	20.704	VV	7251	175620	2.81%	0.081%
292	20.711	20.704	20.743	VV	6881	157599	2.52%	0.073%
293	20.762	20.743	20.796	VV	8045	234704	3.76%	0.109%
294	20.806	20.796	20.841	VV	7442	193177	3.09%	0.090%
295	20.871	20.841	20.899	VV	7505	244420	3.92%	0.113%
296	20.908	20.899	20.978	VV	6318	253134	4.06%	0.117%
297	21.028	20.978	21.083	VV	7080	372449	5.97%	0.173%
298	21.098	21.083	21.122	VV	5558	125874	2.02%	0.058%
299	21.129	21.122	21.133	VV	5277	36589	0.59%	0.017%

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					rters	
300	21.168	21.133	21.206	VV	5596	228820
301	21.218	21.206	21.278	VV	4751	152930
302	21.307	21.278	21.353	VV	3648	120221
303	21.381	21.353	21.410	VV	2812	79127
304	21.473	21.410	21.604	VV	180748	4237402
305	21.610	21.604	21.619	VV	558	3279

Instrument :
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3.67% 0.106%

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :Ankita Jodhani 02/06/2025

Sum of corrected areas: 215653793

Aliphatic EPH 012425.M Thu Feb 06 04:41:35 2025

Manual Integration Report

Sequence:	FC012425AL	Instrument	FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166217BS	FC068112.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:19 AM	Ankita	1/27/2025 9:08:07	Peak Integrated by Software
PB166217BSD	FC068113.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:22 AM	Ankita	1/27/2025 9:08:09	Peak Integrated by Software
Q1169-01	FC068114.D	1-chlorooctadecane (SURR)	yogesh	1/27/2025 7:58:21 AM	Ankita	1/27/2025 9:08:11	Peak Integrated by Software
Q1169-01	FC068114.D	ortho-Terphenyl (SURR)	yogesh	1/27/2025 7:58:21 AM	Ankita	1/27/2025 9:08:11	Peak Integrated by Software
Q1169-05MS	FC068118.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:24 AM	Ankita	1/27/2025 9:08:13	Peak Integrated by Software
Q1169-05MSD	FC068119.D	n-Tetracosane (C24)	yogesh	1/27/2025 7:58:25 AM	Ankita	1/27/2025 9:08:16	Peak Integrated by Software
Q1170-01	FC068120.D	1-chlorooctadecane (SURR)	yogesh	1/27/2025 7:58:26 AM	Ankita	1/27/2025 9:08:18	Peak Integrated by Software
Q1170-02	FC068121.D	1-chlorooctadecane (SURR)	yogesh	1/27/2025 7:58:28 AM	Ankita	1/27/2025 9:08:20	Peak Integrated by Software
Q1170-02	FC068121.D	ortho-Terphenyl (SURR)	yogesh	1/27/2025 7:58:28 AM	Ankita	1/27/2025 9:08:20	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Dotriacontane (C32)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Hexatriacontane (C36)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Octatriacontane (C38)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068123.D	n-Tetracontane (C40)	yogesh	1/27/2025 7:58:29 AM	Ankita	1/27/2025 9:08:22	Peak Integrated by Software



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

Manual Integration Report

Sequence:

FC012425AL

Instrument

FID_c

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

FC020525AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
20 PPM ALIPHATIC HC	FC068192.D	n-Docosane (C22)	yogesh	2/6/2025 8:10:36 AM	Ankita	2/6/2025 11:30:18	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068192.D	n-Hexatriacontane (C36)	yogesh	2/6/2025 8:10:36 AM	Ankita	2/6/2025 11:30:18	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068192.D	n-Octatriacontane (C38)	yogesh	2/6/2025 8:10:36 AM	Ankita	2/6/2025 11:30:18	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068192.D	n-Tetracontane (C40)	yogesh	2/6/2025 8:10:36 AM	Ankita	2/6/2025 11:30:18	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068192.D	n-Tetracosane (C24)	yogesh	2/6/2025 8:10:36 AM	Ankita	2/6/2025 11:30:18	Peak Integrated by Software
PB166564BS	FC068194.D	n-Decane (C10)	yogesh	2/6/2025 8:10:39 AM	Ankita	2/6/2025 11:30:20	Peak Integrated by Software
PB166564BS	FC068194.D	n-Hexatriacontane (C36)	yogesh	2/6/2025 8:10:39 AM	Ankita	2/6/2025 11:30:20	Peak Integrated by Software
PB166564BS	FC068194.D	n-Octatriacontane (C38)	yogesh	2/6/2025 8:10:39 AM	Ankita	2/6/2025 11:30:20	Peak Integrated by Software
PB166564BS	FC068194.D	n-Tetracontane (C40)	yogesh	2/6/2025 8:10:39 AM	Ankita	2/6/2025 11:30:20	Peak Integrated by Software
PB166564BS	FC068194.D	n-Tetracosane (C24)	yogesh	2/6/2025 8:10:39 AM	Ankita	2/6/2025 11:30:20	Peak Integrated by Software
PB166564BSD	FC068195.D	n-Decane (C10)	yogesh	2/6/2025 8:10:41 AM	Ankita	2/6/2025 11:30:22	Peak Integrated by Software
PB166564BSD	FC068195.D	n-Hexatriacontane (C36)	yogesh	2/6/2025 8:10:41 AM	Ankita	2/6/2025 11:30:22	Peak Integrated by Software
PB166564BSD	FC068195.D	n-Octatriacontane (C38)	yogesh	2/6/2025 8:10:41 AM	Ankita	2/6/2025 11:30:22	Peak Integrated by Software

Manual Integration Report

Sequence:

FC020525AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166564BSD	FC068195.D	n-Tetracontane (C40)	yogesh	2/6/2025 8:10:41 AM	Ankita	2/6/2025 11:30:22	Peak Integrated by Software
PB166564BSD	FC068195.D	n-Tetracosane (C24)	yogesh	2/6/2025 8:10:41 AM	Ankita	2/6/2025 11:30:22	Peak Integrated by Software
Q1290-03	FC068196.D	ortho-Terphenyl (SURR)	yogesh	2/6/2025 8:10:43 AM	Ankita	2/6/2025 11:30:23	Peak Integrated by Software
Q1290-03MS	FC068197.D	n-Decane (C10)	yogesh	2/6/2025 8:10:45 AM	Ankita	2/6/2025 11:30:26	Peak Integrated by Software
Q1290-03MS	FC068197.D	n-Docosane (C22)	yogesh	2/6/2025 8:10:45 AM	Ankita	2/6/2025 11:30:26	Peak Integrated by Software
Q1290-03MS	FC068197.D	n-Octatriacontane (C38)	yogesh	2/6/2025 8:10:45 AM	Ankita	2/6/2025 11:30:26	Peak Integrated by Software
Q1290-03MS	FC068197.D	n-Tetracontane (C40)	yogesh	2/6/2025 8:10:45 AM	Ankita	2/6/2025 11:30:26	Peak Integrated by Software
Q1290-03MS	FC068197.D	n-Tetracosane (C24)	yogesh	2/6/2025 8:10:45 AM	Ankita	2/6/2025 11:30:26	Peak Integrated by Software
Q1290-03MSD	FC068198.D	n-Decane (C10)	yogesh	2/6/2025 8:10:47 AM	Ankita	2/6/2025 11:30:27	Peak Integrated by Software
Q1290-03MSD	FC068198.D	n-Octatriacontane (C38)	yogesh	2/6/2025 8:10:47 AM	Ankita	2/6/2025 11:30:27	Peak Integrated by Software
Q1290-03MSD	FC068198.D	n-Tetracontane (C40)	yogesh	2/6/2025 8:10:47 AM	Ankita	2/6/2025 11:30:27	Peak Integrated by Software
Q1290-03MSD	FC068198.D	n-Tetracosane (C24)	yogesh	2/6/2025 8:10:47 AM	Ankita	2/6/2025 11:30:27	Peak Integrated by Software
Q1290-06	FC068201.D	ortho-Terphenyl (SURR)	yogesh	2/6/2025 8:10:48 AM	Ankita	2/6/2025 11:30:29	Peak Integrated by Software

Manual Integration Report

Sequence:

FC020525AL

Instrument

FID_c

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1290-07	FC068202.D	ortho-Terphenyl (SURR)	yogesh	2/6/2025 8:10:50 AM	Ankita	2/6/2025 11:30:30	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068204.D	n-Docosane (C22)	yogesh	2/6/2025 8:10:52 AM	Ankita	2/6/2025 11:30:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068204.D	n-Octatriacontane (C38)	yogesh	2/6/2025 8:10:52 AM	Ankita	2/6/2025 11:30:32	Peak Integrated by Software
20 PPM ALIPHATIC HC	FC068204.D	n-Tetracontane (C40)	yogesh	2/6/2025 8:10:52 AM	Ankita	2/6/2025 11:30:32	Peak Integrated by Software

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068101.D	24 Jan 2025 07:37	YP/AJ	Ok
2	I.BLK	FC068102.D	24 Jan 2025 08:12	YP/AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FC068103.D	24 Jan 2025 08:47	YP/AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FC068104.D	24 Jan 2025 09:23	YP/AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FC068105.D	24 Jan 2025 09:58	YP/AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FC068106.D	24 Jan 2025 10:34	YP/AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FC068107.D	24 Jan 2025 11:10	YP/AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FC068108.D	24 Jan 2025 11:46	YP/AJ	Ok
9	I.BLK	FC068109.D	24 Jan 2025 12:23	YP/AJ	Ok
10	20 PPM ALIPHATIC HC STD	FC068110.D	24 Jan 2025 12:59	YP/AJ	Ok
11	PB166217BL	FC068111.D	24 Jan 2025 13:36	YP/AJ	Ok
12	PB166217BS	FC068112.D	24 Jan 2025 14:12	YP/AJ	Ok,M
13	PB166217BSD	FC068113.D	24 Jan 2025 14:50	YP/AJ	Ok,M
14	Q1169-01	FC068114.D	24 Jan 2025 15:26	YP/AJ	Dilution
15	Q1169-03	FC068115.D	24 Jan 2025 16:03	YP/AJ	Ok
16	Q1169-05	FC068116.D	24 Jan 2025 16:39	YP/AJ	Ok
17	Q1169-05D	FC068117.D	24 Jan 2025 17:17	YP/AJ	Ok
18	Q1169-05MS	FC068118.D	24 Jan 2025 17:53	YP/AJ	Ok,M
19	Q1169-05MSD	FC068119.D	24 Jan 2025 18:30	YP/AJ	Ok,M
20	Q1170-01	FC068120.D	24 Jan 2025 19:06	YP/AJ	Ok,M
21	Q1170-02	FC068121.D	24 Jan 2025 19:43	YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

22	I.BLK	FC068122.D	24 Jan 2025 20:57	YP/AJ	Ok
23	20 PPM ALIPHATIC HC STD	FC068123.D	24 Jan 2025 21:33	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC020525AL

Review By	yogesh	Review On	2/5/2025 12:49:11 PM
Supervise By	Ankita	Supervise On	2/6/2025 11:31:40 AM
SubDirectory	FC020525AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FC068190.D	05 Feb 2025 09:42	YP/AJ	Ok
2	I.BLK	FC068191.D	05 Feb 2025 10:17	YP/AJ	Ok
3	20 PPM ALIPHATIC HC STD	FC068192.D	05 Feb 2025 12:24	YP/AJ	Ok,M
4	PB166564BL	FC068193.D	05 Feb 2025 13:32	YP/AJ	Ok
5	PB166564BS	FC068194.D	05 Feb 2025 14:08	YP/AJ	Ok,M
6	PB166564BSD	FC068195.D	05 Feb 2025 14:45	YP/AJ	Ok,M
7	Q1290-03	FC068196.D	05 Feb 2025 15:22	YP/AJ	Ok,M
8	Q1290-03MS	FC068197.D	05 Feb 2025 15:58	YP/AJ	Ok,M
9	Q1290-03MSD	FC068198.D	05 Feb 2025 16:35	YP/AJ	Ok,M
10	Q1290-04	FC068199.D	05 Feb 2025 17:11	YP/AJ	Ok
11	Q1290-05	FC068200.D	05 Feb 2025 17:47	YP/AJ	Ok
12	Q1290-06	FC068201.D	05 Feb 2025 18:24	YP/AJ	Ok,M
13	Q1290-07	FC068202.D	05 Feb 2025 19:00	YP/AJ	Ok,M
14	I.BLK	FC068203.D	05 Feb 2025 20:12	YP/AJ	Ok
15	20 PPM ALIPHATIC HC STD	FC068204.D	05 Feb 2025 20:48	YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649
CCC Internal Standard/PEM	PP23647
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068101.D	24 Jan 2025 07:37		YP/AJ	Ok
2	I.BLK	I.BLK	FC068102.D	24 Jan 2025 08:12		YP/AJ	Ok
3	100 PPM ALIPHATIC H	100 PPM ALIPHATIC H	FC068103.D	24 Jan 2025 08:47		YP/AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FC068104.D	24 Jan 2025 09:23		YP/AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068105.D	24 Jan 2025 09:58		YP/AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FC068106.D	24 Jan 2025 10:34		YP/AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FC068107.D	24 Jan 2025 11:10		YP/AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068108.D	24 Jan 2025 11:46		YP/AJ	Ok
9	I.BLK	I.BLK	FC068109.D	24 Jan 2025 12:23		YP/AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068110.D	24 Jan 2025 12:59		YP/AJ	Ok
11	PB166217BL	PB166217BL	FC068111.D	24 Jan 2025 13:36		YP/AJ	Ok
12	PB166217BS	PB166217BS	FC068112.D	24 Jan 2025 14:12		YP/AJ	Ok,M
13	PB166217BSD	PB166217BSD	FC068113.D	24 Jan 2025 14:50		YP/AJ	Ok,M
14	Q1169-01	ARS20-0006	FC068114.D	24 Jan 2025 15:26	need 5x dilution	YP/AJ	Dilution
15	Q1169-03	REGULATOR-BUILDIN	FC068115.D	24 Jan 2025 16:03		YP/AJ	Ok
16	Q1169-05	SPILL-SITE	FC068116.D	24 Jan 2025 16:39		YP/AJ	Ok
17	Q1169-05D	Q1169-05D	FC068117.D	24 Jan 2025 17:17		YP/AJ	Ok
18	Q1169-05MS	SPILL-SITEMS	FC068118.D	24 Jan 2025 17:53	FC068116.D	YP/AJ	Ok,M

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC012425AL

Review By	yogesh	Review On	1/24/2025 12:20:40 PM
Supervise By	Ankita	Supervise On	1/27/2025 9:08:46 AM
SubDirectory	FC012425AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC Internal Standard/PEM	PP23647		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23645,PP23650		

19	Q1169-05MSD	SPILL-SITEMSD	FC068119.D	24 Jan 2025 18:30	FC068116.D!FC068118.D	YP/AJ	Ok,M
20	Q1170-01	OR-03-01232025	FC068120.D	24 Jan 2025 19:06		YP/AJ	Ok,M
21	Q1170-02	OR-03-01232025-E2	FC068121.D	24 Jan 2025 19:43		YP/AJ	Ok,M
22	I.BLK	I.BLK	FC068122.D	24 Jan 2025 20:57		YP/AJ	Ok
23	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068123.D	24 Jan 2025 21:33		YP/AJ	Ok,M

M : Manual Integration

Instrument ID: FID_C

Daily Analysis Runlog For Sequence/QC Batch ID # FC020525AL

Review By	yogesh	Review On	2/5/2025 12:49:11 PM
Supervise By	Ankita	Supervise On	2/6/2025 11:31:40 AM
SubDirectory	FC020525AL	HP Acquire Method	HP Processing Method FC012425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP23644,PP23646,PP23647,PP23648,PP23649		
CCC	PP23647		
Internal Standard/PEM			
ICV/I.BLK	PP23645,PP23650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FC068190.D	05 Feb 2025 09:42		YP/AJ	Ok
2	I.BLK	I.BLK	FC068191.D	05 Feb 2025 10:17		YP/AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068192.D	05 Feb 2025 12:24		YP/AJ	Ok,M
4	PB166564BL	PB166564BL	FC068193.D	05 Feb 2025 13:32		YP/AJ	Ok
5	PB166564BS	PB166564BS	FC068194.D	05 Feb 2025 14:08		YP/AJ	Ok,M
6	PB166564BSD	PB166564BSD	FC068195.D	05 Feb 2025 14:45		YP/AJ	Ok,M
7	Q1290-03	1	FC068196.D	05 Feb 2025 15:22		YP/AJ	Ok,M
8	Q1290-03MS	1MS	FC068197.D	05 Feb 2025 15:58	FC068196.D	YP/AJ	Ok,M
9	Q1290-03MSD	1MSD	FC068198.D	05 Feb 2025 16:35	FC068196.D!FC068197.D	YP/AJ	Ok,M
10	Q1290-04	2	FC068199.D	05 Feb 2025 17:11		YP/AJ	Ok
11	Q1290-05	3	FC068200.D	05 Feb 2025 17:47		YP/AJ	Ok
12	Q1290-06	4	FC068201.D	05 Feb 2025 18:24		YP/AJ	Ok,M
13	Q1290-07	5	FC068202.D	05 Feb 2025 19:00		YP/AJ	Ok,M
14	I.BLK	I.BLK	FC068203.D	05 Feb 2025 20:12		YP/AJ	Ok
15	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FC068204.D	05 Feb 2025 20:48		YP/AJ	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 2/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 02/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 02/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134555

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
Q1284-01	SU-03-2-4-2025	1	1.15	8.51	9.66	8.65	88.1	
Q1284-02	SU-03-2-4-2025	2	1.15	8.77	9.92	9.28	92.7	
Q1285-01	72-11977	19	1.15	8.73	9.88	7.57	73.5	GEL MARTIX
Q1286-01	NB-07-020425	3	1.16	8.63	9.79	9.21	93.3	
Q1286-02	NB-07-020425-VOC	4	1.15	8.65	9.8	9.09	91.8	
Q1286-03	NB-07-020425-E2	5	1.16	8.50	9.66	8.96	91.8	
Q1287-01	BAY-DRUMS-A	20	1.16	8.82	9.98	8.96	88.4	
Q1287-03	BAY-DRUMS-B	21	1.13	8.64	9.77	8.61	86.6	
Q1287-05	BAY-DRUMS-C	22	1.18	8.40	9.58	8.37	85.6	
Q1287-07	BAY-DRUMS-D	23	1.12	8.47	9.59	8.49	87.0	
Q1287-09	BAY-DRUMS-E	24	1.16	8.83	9.99	8.67	85.1	
Q1288-01	HR-01-020425	6	1.14	8.85	9.99	9.02	89.0	
Q1288-02	HR-01-020425	7	1.13	8.77	9.9	8.95	89.2	
Q1288-03	HR-01-020425-E2	8	1.19	8.57	9.76	9.02	91.4	
Q1288-04	HR-04-020425	9	1.15	8.37	9.52	8.8	91.4	
Q1288-05	HR-04-020425	10	1.18	8.62	9.8	9.25	93.6	
Q1288-06	HR-04-020425-E2	11	1.17	8.60	9.77	9.13	92.6	
Q1289-01	FL-OILY DEBRIS	25	1.00	1.00	2.00	2.00	100.0	oily-debris
Q1289-02	FL-DRUMS-A	26	1.18	8.48	9.66	8.53	86.7	
Q1289-04	FL-DRUMS-B	27	1.15	8.81	9.96	9.41	93.8	
Q1290-01	WASTE	12	1.14	8.68	9.82	8.74	87.6	
Q1290-02	VOC	13	1.15	8.62	9.77	8.47	84.9	
Q1290-03	1	14	1.16	8.52	9.68	8.35	84.4	
Q1290-04	2	15	1.18	8.51	9.69	8.53	86.4	
Q1290-05	3	16	1.19	8.53	9.72	8.6	86.9	
Q1290-06	4	17	1.15	8.82	9.97	8.94	88.3	
Q1290-07	5	18	1.13	8.73	9.86	8.69	86.6	

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

WORKLIST(Hardcopy Internal Chain)

134555

WorkList Name : %1-020425 WorkList ID : 187436 Department : Wet-Chemistry Date : 02-04-2025 07:57:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1284-01	SU-03-2-4-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1284-02	SU-03-2-4-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1285-01	72-11977	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1286-01	NB-07-020425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1286-02	NB-07-020425-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1286-03	NB-07-020425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1287-01	BAY-DRUMS-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1287-03	BAY-DRUMS-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1287-05	BAY-DRUMS-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1287-07	BAY-DRUMS-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1287-09	BAY-DRUMS-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1288-01	HR-01-020425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1288-02	HR-01-020425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1288-03	HR-01-020425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1288-04	HR-04-020425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1288-05	HR-04-020425	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1288-06	HR-04-020425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D11	02/04/2025	Chemtech -SO
Q1289-01	FL-OILY DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1289-02	FL-DRUMS-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1289-04	FL-DRUMS-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	02/04/2025	Chemtech -SO
Q1290-01	WASTE	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO

Date/Time 02/04/25 15:45
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

13455

WorkList Name : %1-020425 WorkList ID : 187436 Department : Wet-Chemistry Date : 02-04-2025 07:57:46

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1290-02	VOC	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO
Q1290-03	1	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO
Q1290-04	2	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO
Q1290-05	3	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO
Q1290-06	4	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO
Q1290-07	5	Solid	Percent Solids	Cool 4 deg C	SCIA01	D11	02/04/2025	Chemtech -SO

Date/Time 02/04/25 1545
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 02/04/25 17120
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

SOP ID: MNJDEP-EPH-7

Clean Up SOP #: N/A

Matrix : Solid

Welgh By: EH **Extraction By:** RJ

Balance check: RJ **Filter By:** RJ

Balance ID: EX-SC-2 **pH Meter ID:** N/A

pH Strip Lot#: N/A **Hood ID:** 3,7

Extraction Method: ☐ Seperatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Extraction Start Date : 02/05/2025

Extraction Start Time : 09:25

Extraction End Date : 02/05/2025

Extraction End Time : 12:25

Concentration By: EH

Supervisor By : rajesh

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24161
Surrogate	1.0ML	100 PPM	PP24119
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	EP2582
Baked Na2SO4	N/A	EP2581
Sand	N/A	E2865
Methylene Chloride	N/A	E3874
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

KD Bath ID: N/A **Envap ID:** NEVAP-02

KD Bath Temperature: N/A **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/05/25	RP (Ext 203)	Y-P. Pestipyo
12:30	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-7

Concentration Date: 02/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166564BL	PB166564BL	EPH_F2	30.01	N/A	ritesh	Evelyn	2			U2-1
PB166564BS	PB166564BS	EPH_F2	30.02	N/A	ritesh	Evelyn	2			2
PB166564BSD	PB166564BSD	EPH_F2	30.03	N/A	ritesh	Evelyn	2			3
Q1290-03	1	EPH_F2	30.04	N/A	ritesh	Evelyn	2			4
Q1290-03MS	1MS	EPH_F2	30.06	N/A	ritesh	Evelyn	2			5
Q1290-03MS D	1MSD	EPH_F2	30.03	N/A	ritesh	Evelyn	2			6
Q1290-04	2	EPH_F2	30.05	N/A	ritesh	Evelyn	2			U3-1
Q1290-05	3	EPH_F2	30.08	N/A	ritesh	Evelyn	2			2
Q1290-06	4	EPH_F2	30.03	N/A	ritesh	Evelyn	2			3
Q1290-07	5	EPH_F2	30.07	N/A	ritesh	Evelyn	2			4

* Extracts relinquished on the same date as received.

8
2/5/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1288 WorkList ID : 187493 Department : Extraction Date : 02-05-2025 08:39:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1284-01	SU-03-2-4-2025	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1285-01	72-11977	Solid	EPH_NF	Cool 4 deg C	PSEG03	D11	02/04/2025	NJEPH
Q1286-01	NB-07-020425	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1286-03	NB-07-020425-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1288-01	HR-01-020425	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1288-03	HR-01-020425-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1288-04	HR-04-020425	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1288-06	HR-04-020425-E2	Solid	EPH_NF	Cool 4 deg C	PSEG05	D11	02/04/2025	NJEPH
Q1290-03	1	Solid	EPH_F2	Cool 4 deg C	SCIA01	D11	02/04/2025	NJEPH
Q1290-04	2	Solid	EPH_F2	Cool 4 deg C	SCIA01	D11	02/04/2025	NJEPH
Q1290-05	3	Solid	EPH_F2	Cool 4 deg C	SCIA01	D11	02/04/2025	NJEPH
Q1290-06	4	Solid	EPH_F2	Cool 4 deg C	SCIA01	D11	02/04/2025	NJEPH
Q1290-07	5	Solid	EPH_F2	Cool 4 deg C	SCIA01	D11	02/04/2025	NJEPH

Date/Time 02/05/25 9:20
 Raw Sample Received by: R. J. (Signature)
 Raw Sample Relinquished by: (Signature)

Date/Time 02/05/25 9:15
 Raw Sample Received by: (Signature)
 Raw Sample Relinquished by: R. J. (Signature)

Prep Standard - Chemical Standard Summary

Order ID : Q1290

Test : EPH_F2

Prepbatch ID : PB166564,

Sequence ID/Qc Batch ID: FC020525AL,

Standard ID :

EP2581,EP2582,PP23644,PP23645,PP23646,PP23647,PP23648,PP23649,PP23650,PP24119,PP24161,

Chemical ID :

E2865,E3551,E3789,E3846,E3873,E3874,P12362,P12972,P13017,P13278,P13595,P13597,P13598,P13607,P13652,P
13654,P13661,P13685,P13800,P13804,P13805,P13808,P13816,P13817,P13818,P13821,P13826,P13829,P13839,P13
843,P13844,P13850,P13851,P13856,P13857,P13863,P13864,P13866,



<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	EP2581	02/03/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Rajesh Parikh 02/03/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<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	EP2582	02/04/2025	07/29/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/04/2025
<u>FROM</u> 8000.00000ml of E3873 + 8000.00000ml of E3874 = Final Quantity: 16000.000 ml								

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
781	100 PPM Aliphatic HC Working STD (Restek)	PP23644	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 1.25000ml of P12362 + 23.25000ml of E3789 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2900	100 PPM Aliphatic HC STD (Absolute)	PP23645	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.25000ml of P12972 + 0.25000ml of P13017 + 2.50000ml of P13278 + 22.00000ml of E3789 = Final Quantity: 25.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
783	50 PPM Aliphatic HC STD	PP23646	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.50000ml of E3789 + 0.50000ml of PP23644 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
784	20 PPM Aliphatic HC STD	PP23647	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23644 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
785	10 PPM Aliphatic HC STD	PP23648	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
09/10/2024								

FROM 0.90000ml of E3789 + 0.10000ml of PP23644 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
786	5 PPM Aliphatic HC STD	PP23649	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
09/10/2024								

FROM 0.90000ml of E3789 + 0.10000ml of PP23646 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2901	20 PPM Aliphatic HC STD ICV (Absolute)	PP23650	09/09/2024	02/13/2025	Yogesh Patel	None	None	Ankita Jodhani
								09/10/2024

FROM 0.80000ml of E3789 + 0.20000ml of PP23645 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1339	100 PPM NJEPH Surrogate Spike	PP24119	01/16/2025	06/26/2025	Yogesh Patel	None	None	Ankita Jodhani
								01/16/2025

FROM 1.25000ml of P13595 + 1.25000ml of P13597 + 1.25000ml of P13598 + 1.25000ml of P13607 + 1.25000ml of P13652 +
1.25000ml of P13654 + 1.25000ml of P13661 + 1.25000ml of P13685 + 490.00000ml of E3846 = Final Quantity: 200.000 ml



<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	PP24161	01/31/2025	07/31/2025	Yogesh Patel	None	None	Ankita Jodhani 01/31/2025
<u>FROM</u> 5.00000ml of P13800 + 5.00000ml of P13804 + 5.00000ml of P13805 + 5.00000ml of P13808 + 5.00000ml of P13816 + 5.00000ml of P13817 + 5.00000ml of P13818 + 5.00000ml of P13821 + 5.00000ml of P13826 + 5.00000ml of P13829 + 5.00000ml of P13839 + 5.00000ml of P13843 + 5.00000ml of P13844 + 5.00000ml of P13850 + 5.00000ml of P13851 + 5.00000ml of P13856 + 5.00000ml of P13857 + 5.00000ml of P13863 + 5.00000ml of P13864 + 5.00000ml of P13866 = Final Quantity: 100.000 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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	03/09/2025	09/09/2024 / yogesh	03/16/2023 / Yogesh	P12362

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0204989	03/09/2025	09/09/2024 / yogesh	12/20/2023 / Yogesh	P12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0204177	03/09/2025	09/09/2024 / yogesh	12/21/2023 / Yogesh	P13017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM	040524	03/09/2025	09/09/2024 / yogesh	04/11/2024 / yogesh	P13278

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13595

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13597

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13598

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13607

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13654

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	01/16/2026	01/16/2025 / yogesh	10/16/2024 / yogesh	P13661

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13804

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13808

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13816

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13817

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13821

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13826

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0217408	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13829

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13839

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13843

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	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13844

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13850

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13851

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13856

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0217838	07/31/2025	01/31/2025 / yogesh	12/09/2024 / yogesh	P13857

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0220580	07/31/2025	01/31/2025 / yogesh	01/08/2025 / yogesh	P13863

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	A0220580	07/31/2025	01/31/2025 / yogesh	01/08/2025 / yogesh	P13864

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0220580	07/31/2025	01/31/2025 / yogesh	01/08/2025 / yogesh	P13866

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

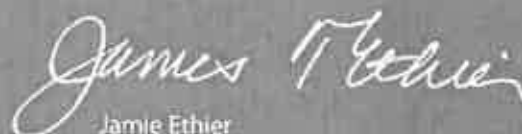
Certificate of Analysis

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
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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

Material No.: 926
Batch No.: 24C186
Manufactured Date: 2024-0
Expiration Date: 2025-0
Revision N

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3789



Jamie Croak
Director Quality Operations, Bioscience Products

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Acetone
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

Rec'd by RP On 12/13/24

E 3846



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



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 1/29/25

E 3873

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.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 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 3874

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)

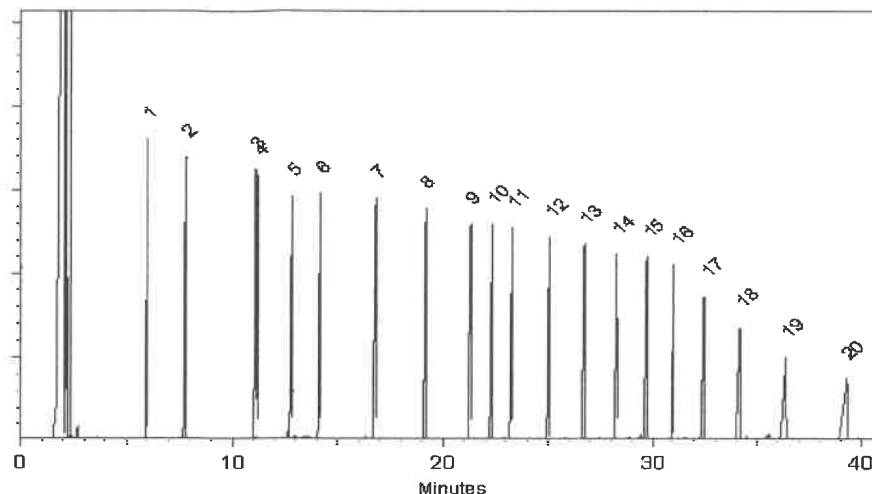
Carrier Gas:
hydrogen-constant pressure 10 psi.

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 31098 **Lot No.:** 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 } Y.P.
↓
P12991 } 12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Chlorooctadecane	3386-33-2	14738400	99%	10,097.3 µg/mL	+/- 567.2675

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

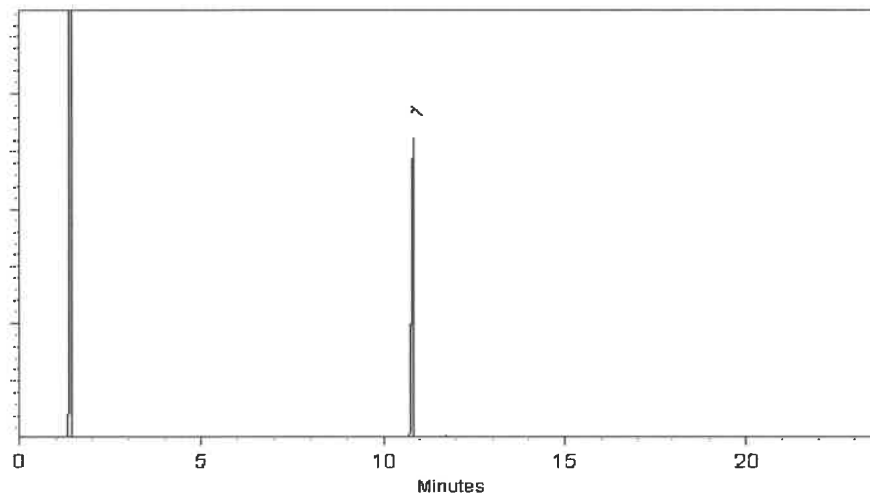
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Peter Robbins - Operations Technician I

Date Mixed: 02-Dec-2023

Balance Serial # B345965662

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Dec-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



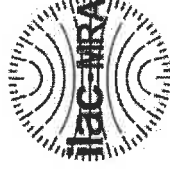
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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.: 31097 **Lot No.:** A0204177

Description: o-Terphenyl Standard

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

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

Expiration Date: June 30, 2027 **Storage:** 10°C or colder

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

P12992 } Y.P.
↓
P13031 } 12/21/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	o-Terphenyl	84-15-1	GKSSA	99%	10,000.5 µg/mL	+/- 450.4278

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

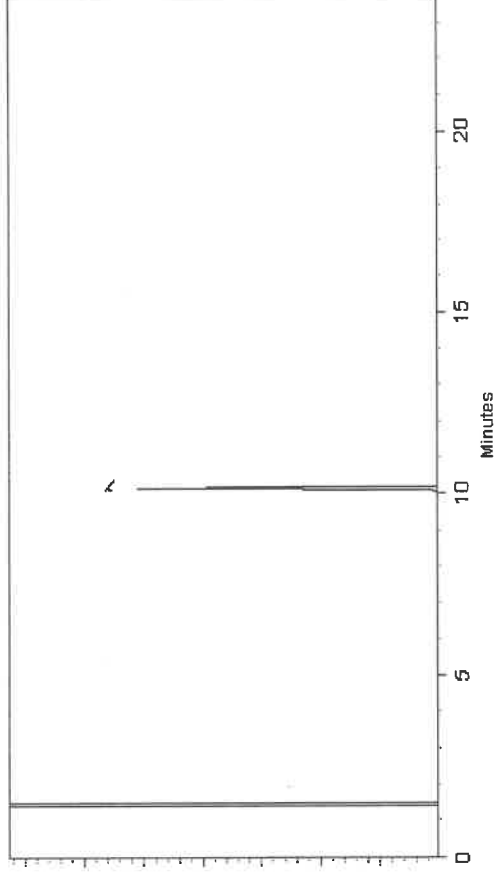
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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



Laith Clemente - Operations Technician I

Date Mixed: 07-Nov-2023 **Balance Serial #** 1128360905



Dillian Murphy - Operations Technician I

Date Passed: 09-Nov-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

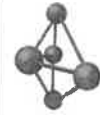
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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



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.)		
																CAS#	OSHA PEL (TWA)	LD50
1.	2-Methylnaphthalene	(0214)	MKBF3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A	or-rat 1630mg/kg
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H)	or-rat 490mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H)	ivn-mus 218mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	N/A	N/A
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A	ivn-mus 3494mg/kg
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1000	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	N/A	N/A
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.1	583-45-3	N/A	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1000	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1000	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1000	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1000	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	N/A	ivn-mus 100mg/kg
17.	n-Tetracontane	95708	120222	1.00	25.00	1000.4	1000	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1000	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

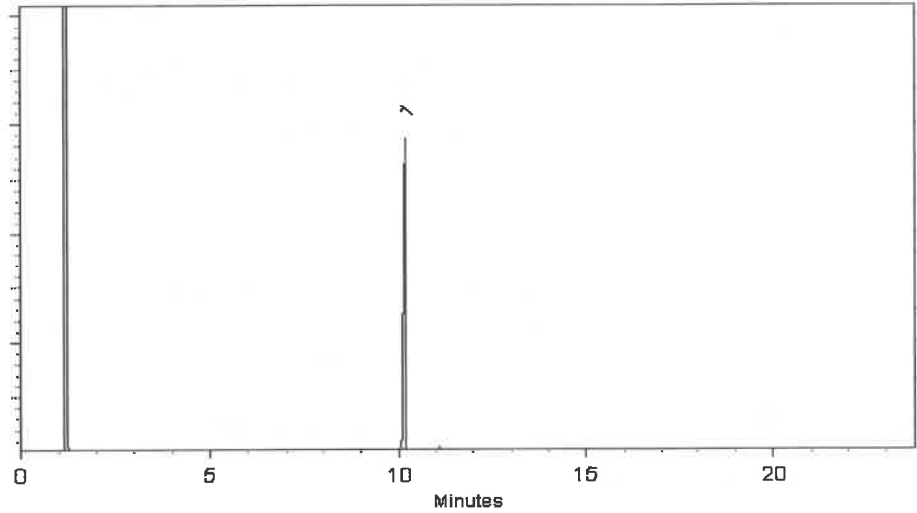
FID

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:

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- 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



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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:

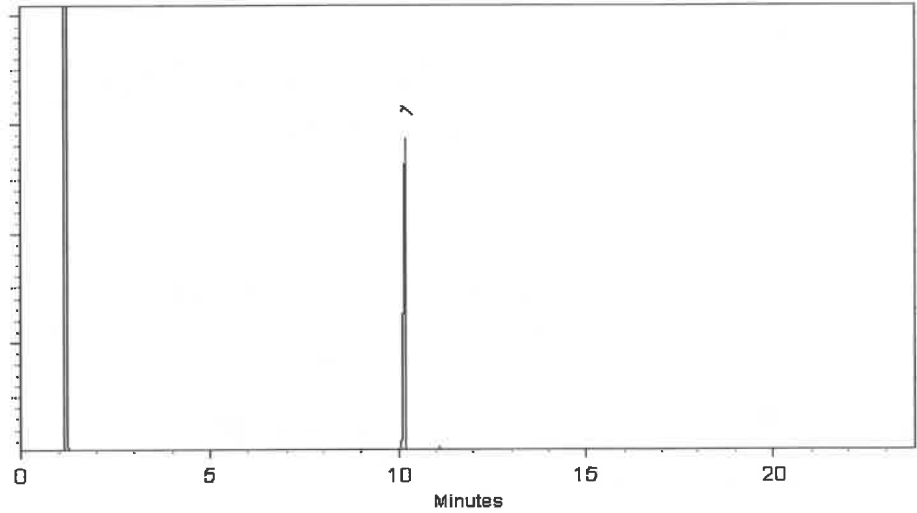
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

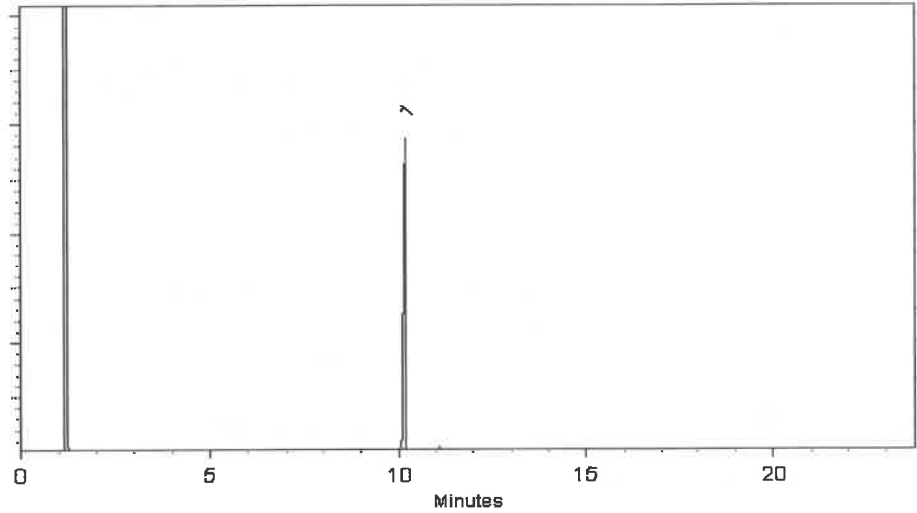
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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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.
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Purity Notes:

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

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

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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:

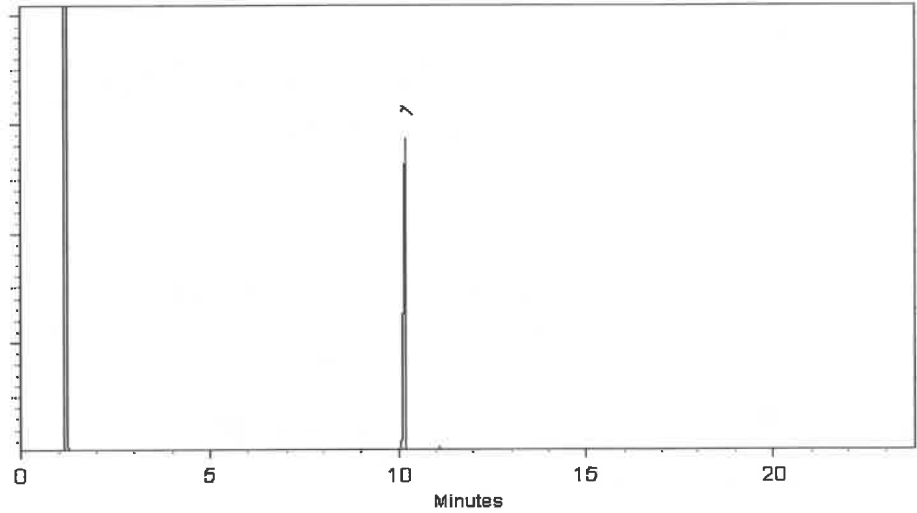
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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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

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CERTIFIED REFERENCE MATERIAL

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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:

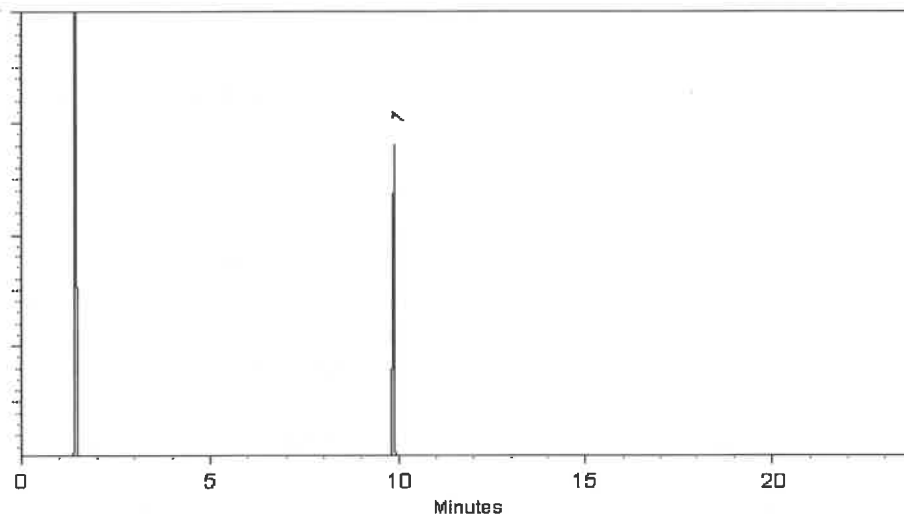
FID

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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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

P13645 } Y.P.
↓
P13694 } 10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

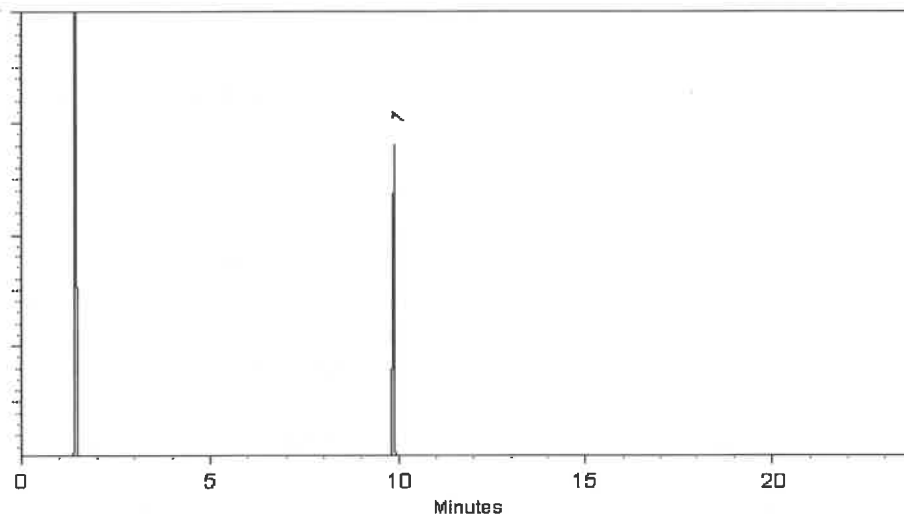
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

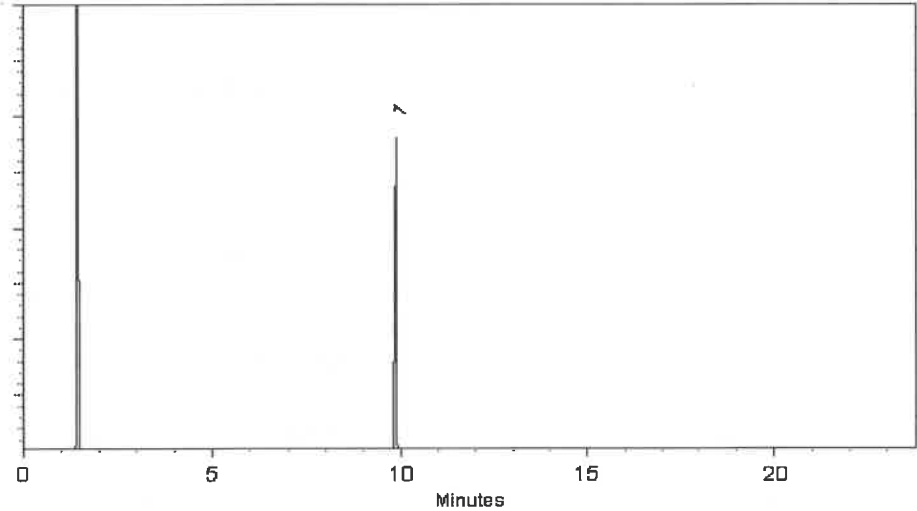
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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:

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

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

Manufacturing Notes:

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

Handling Notes:

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

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

Catalog No. : 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:

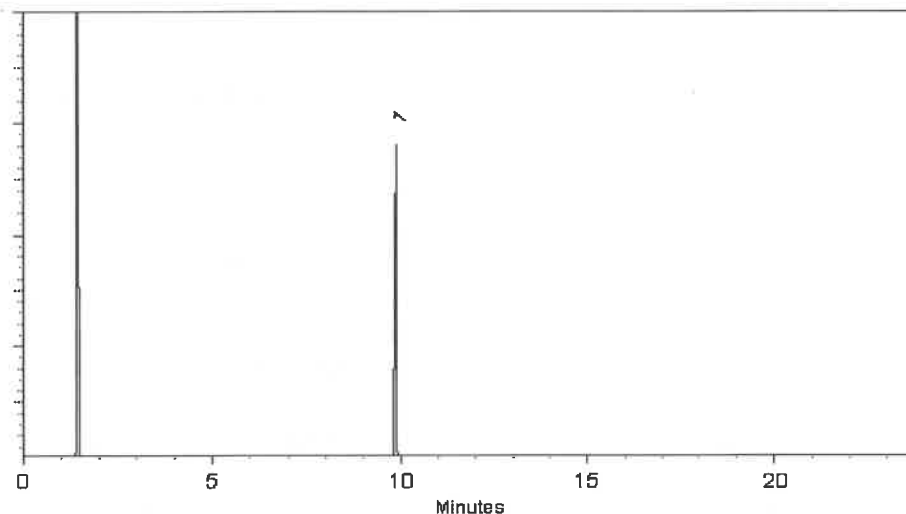
FID

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

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

Manufacturing Notes:

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

Handling Notes:

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

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

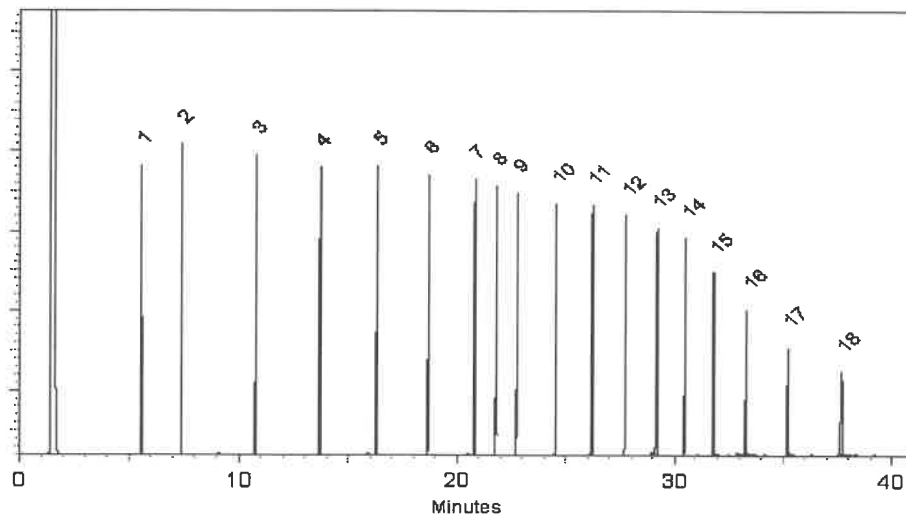
Inj. Temp:
250°C

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.)

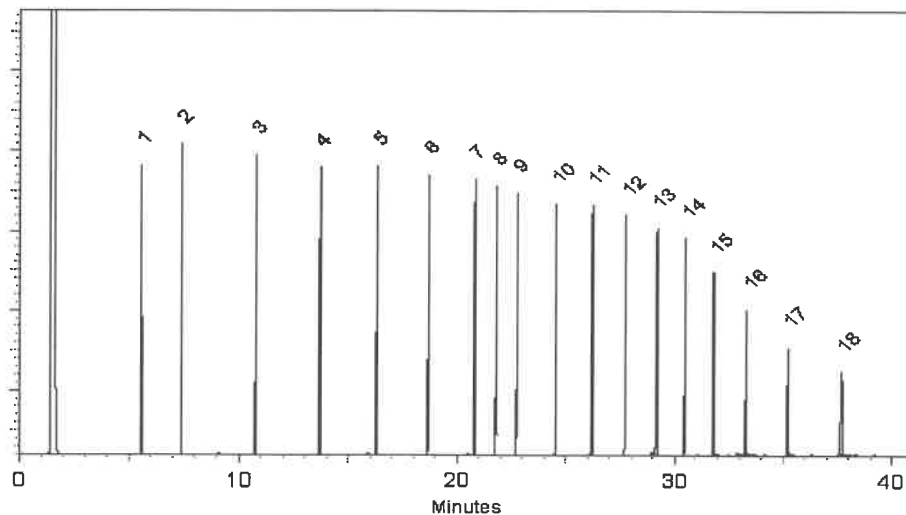
Inj. Temp:
 250°C

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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

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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.)

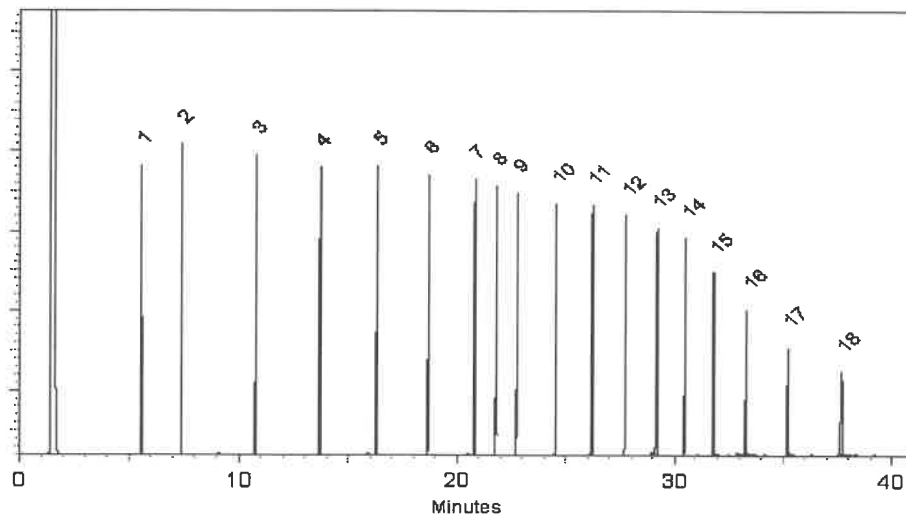
Inj. Temp:
 250°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

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

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

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

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

P13800
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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.)

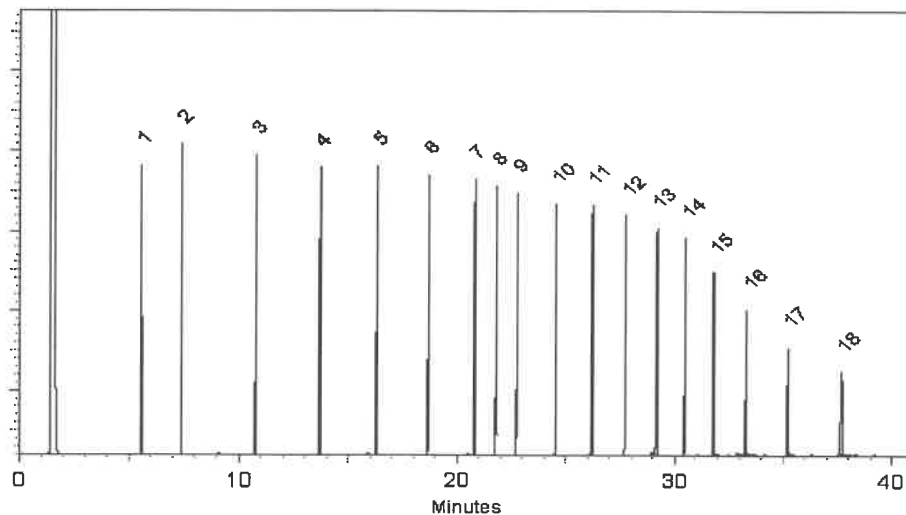
Inj. Temp:
 250°C

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.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

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

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

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

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

P13800
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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.)

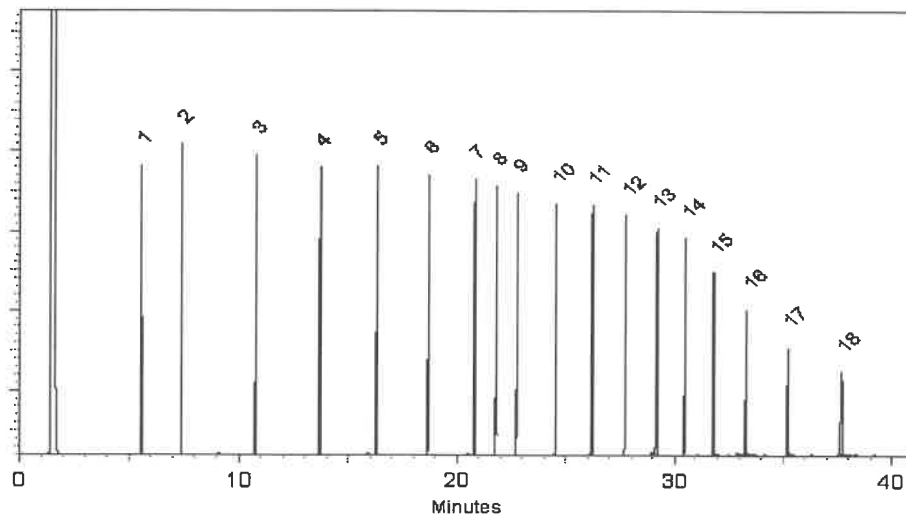
Inj. Temp:
 250°C

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.
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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:

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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. : 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.)

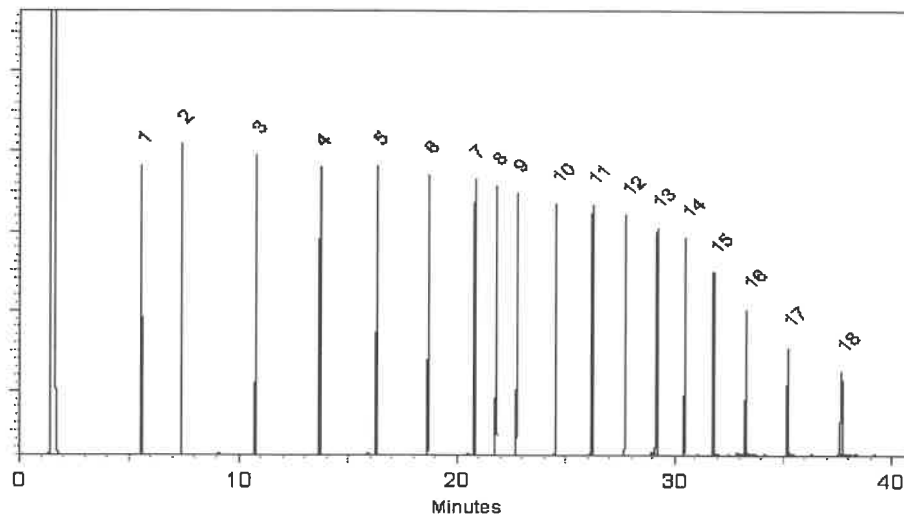
Inj. Temp:
250°C

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.



110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

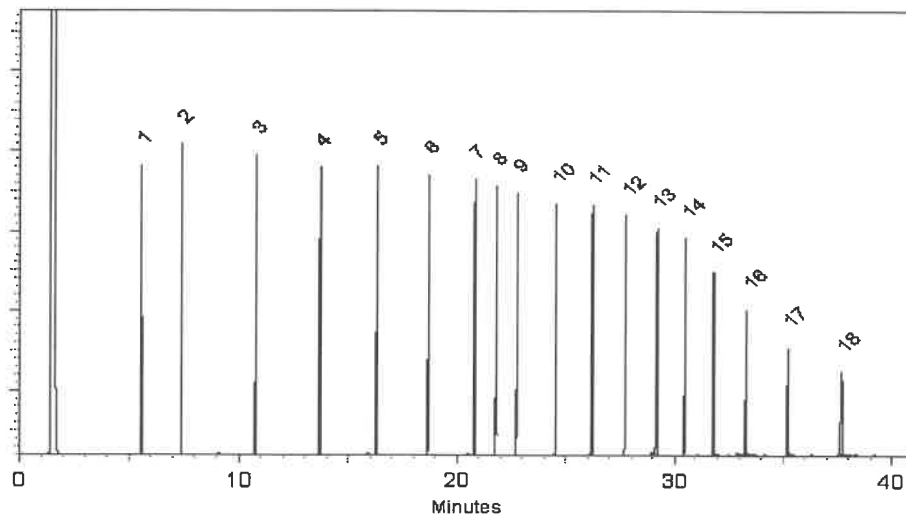
Inj. Temp:
250°C

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.
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Purity Notes:

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- Purity values are rounded to the nearest whole number.

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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.)

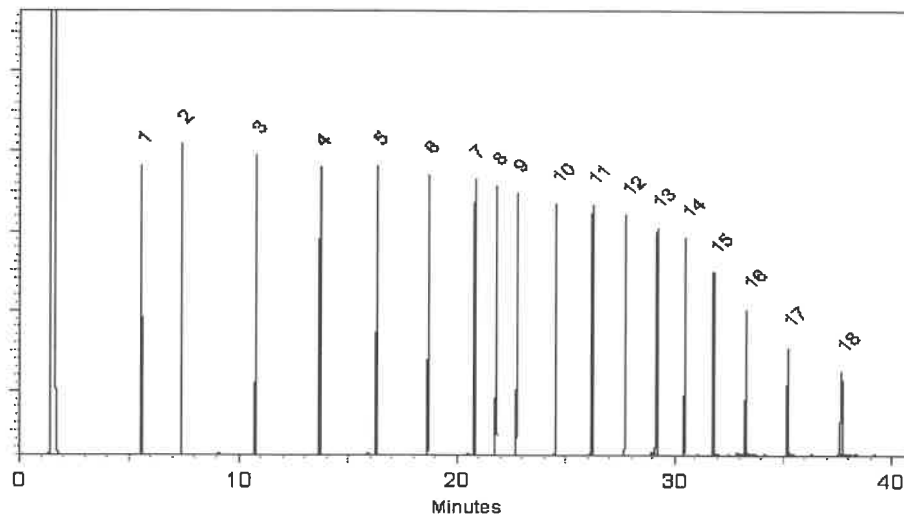
Inj. Temp:
250°C

Det. Temp:
330°C

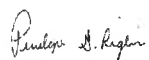
Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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chromatographic plus



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Catalog No. : 30542 **Lot No.:** A0217408

Description : NJEPH Aliphatics Matrix Spike Mix

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

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

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

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

P13800
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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
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16	n-Hexatriacontane (C36)	630-06-8	Z27H018	99%	200.6 µg/mL	+/- 5.1814
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* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

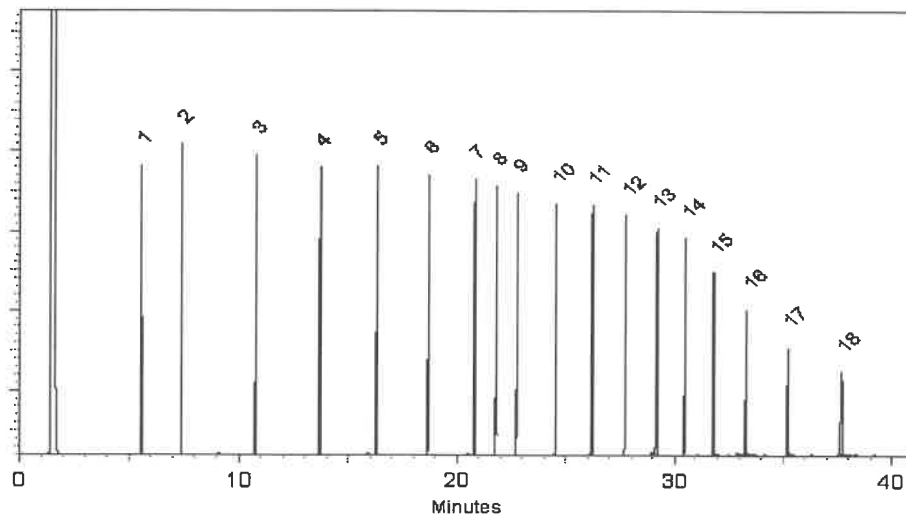
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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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

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P13800
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P13829 } YIP
12/09/24

CERTIFIED VALUES

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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
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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

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

Quality Confirmation Test

Column:
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Carrier Gas:
hydrogen-constant pressure 10 psi.

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

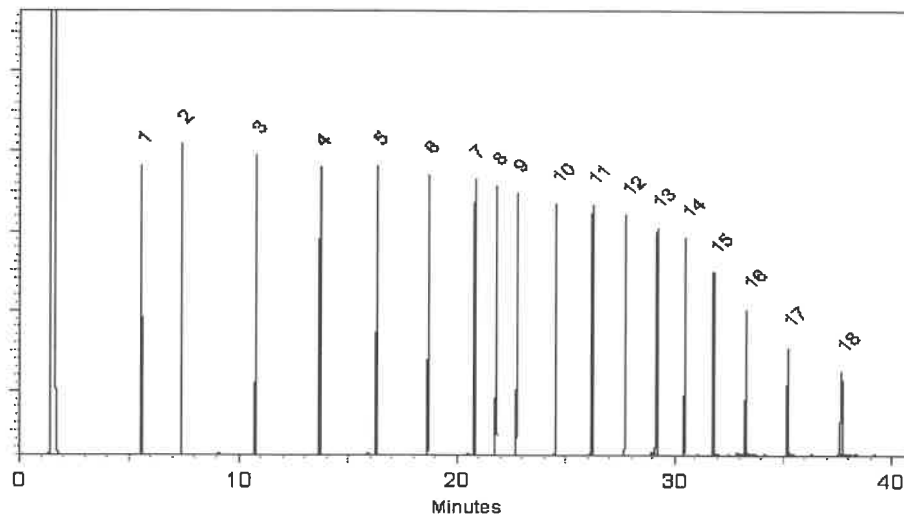
Inj. Temp:
250°C

Det. Temp:
330°C

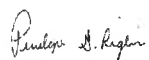
Det. Type:
FID

Split Vent:
2 ml/min.

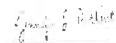
Inj. Vol
1µl



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.)

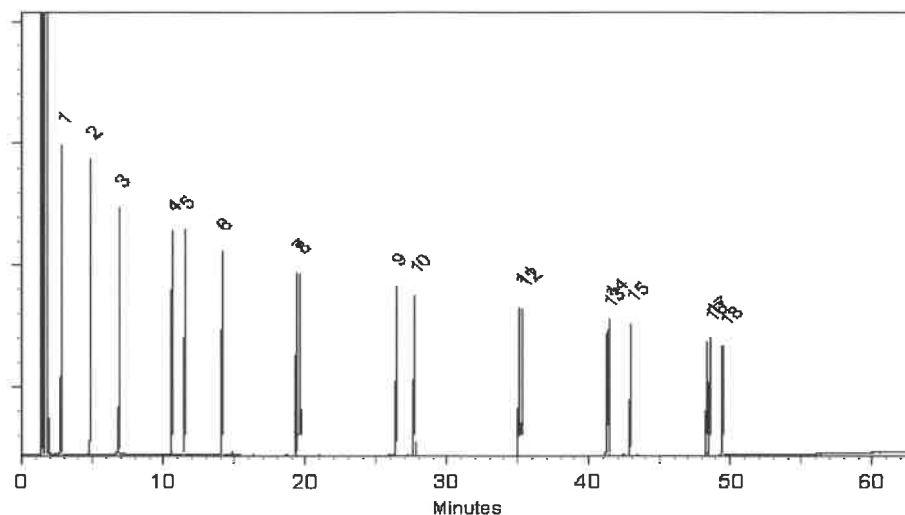
Inj. Temp:
250°C

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

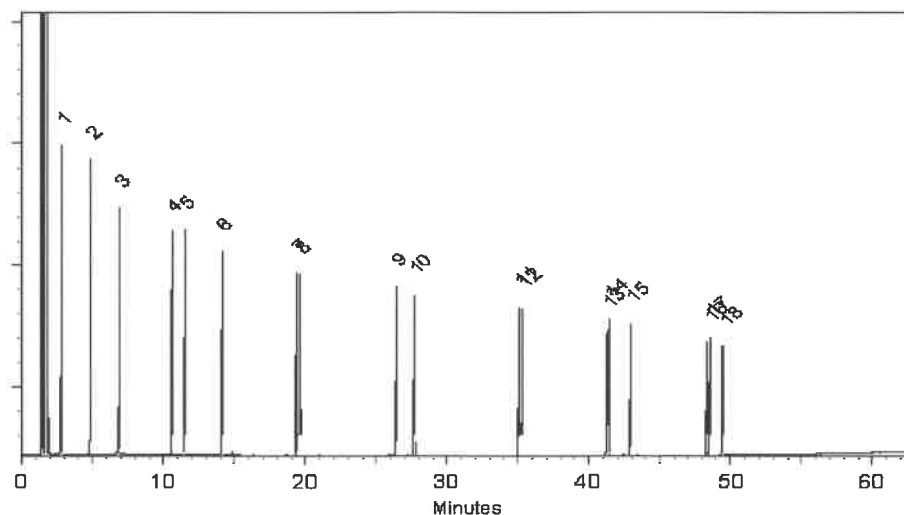
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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



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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
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.)

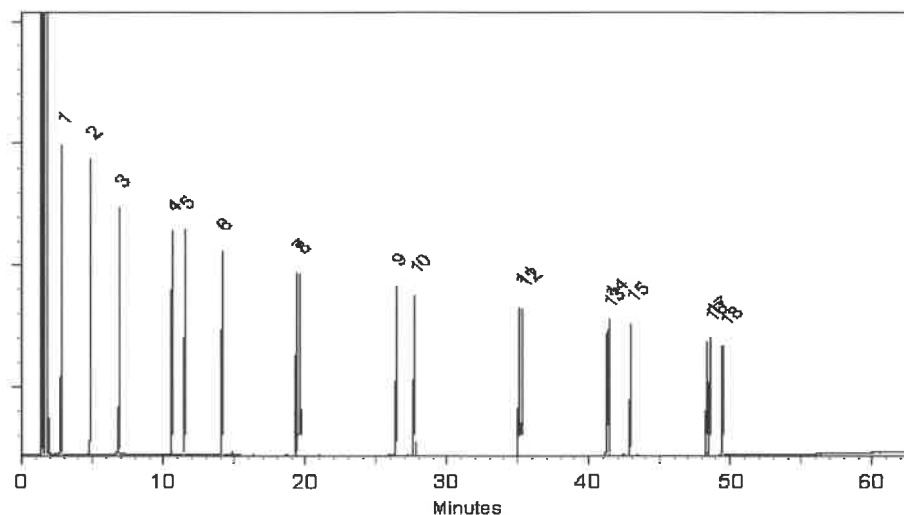
Inj. Temp:
250°C

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.
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Purity Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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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.
12/09/24

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
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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
6	Fluorene	86-73-7	10246250	98%	201.5 µg/mL	+/- 9.0784
7	Phenanthrene	85-01-8	MKCT3391	99%	201.2 µg/mL	+/- 9.0655
8	Anthracene	120-12-7	101492T18R	99%	200.0 µg/mL	+/- 9.0114
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.0 µg/mL	+/- 9.0114
11	Benz(a)anthracene	56-55-3	I60012022BAA	99%	200.0 µg/mL	+/- 9.0114
12	Chrysene	218-01-9	RP240627ECS	99%	200.4 µg/mL	+/- 9.0294
13	Benzo(b)fluoranthene	205-99-2	052013B	99%	201.2 µg/mL	+/- 9.0655
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	201.6 µg/mL	+/- 9.0835
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	199.9 µg/mL	+/- 9.0078
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	199.0 µg/mL	+/- 8.9683

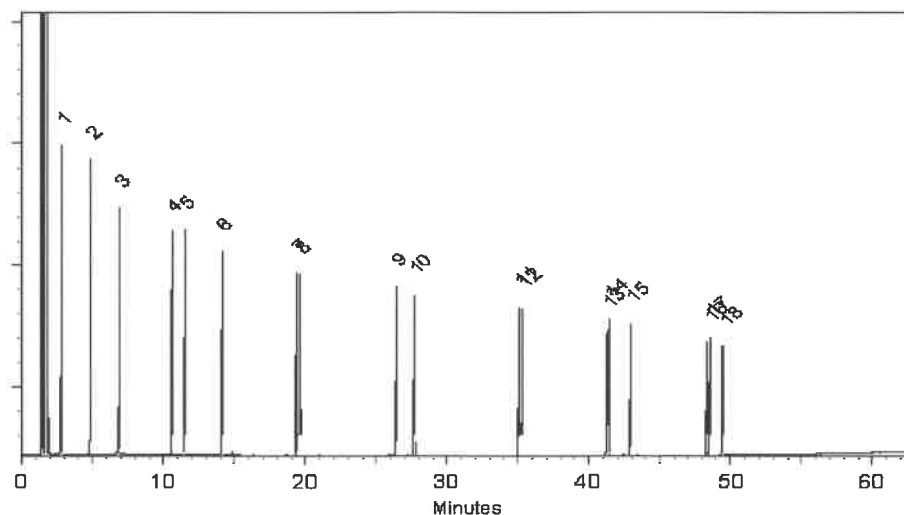
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.
Temp. Program:
100°C (hold 1 min.) to 330°C
@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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

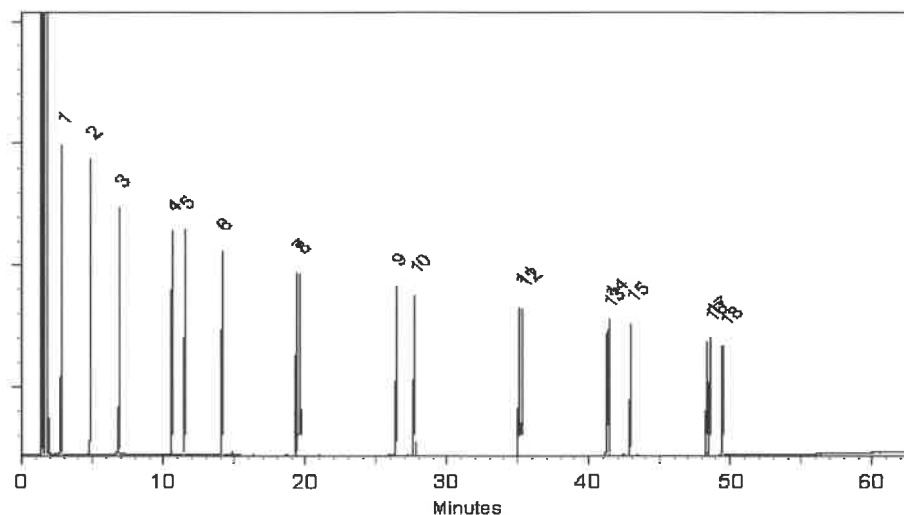
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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.



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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.)

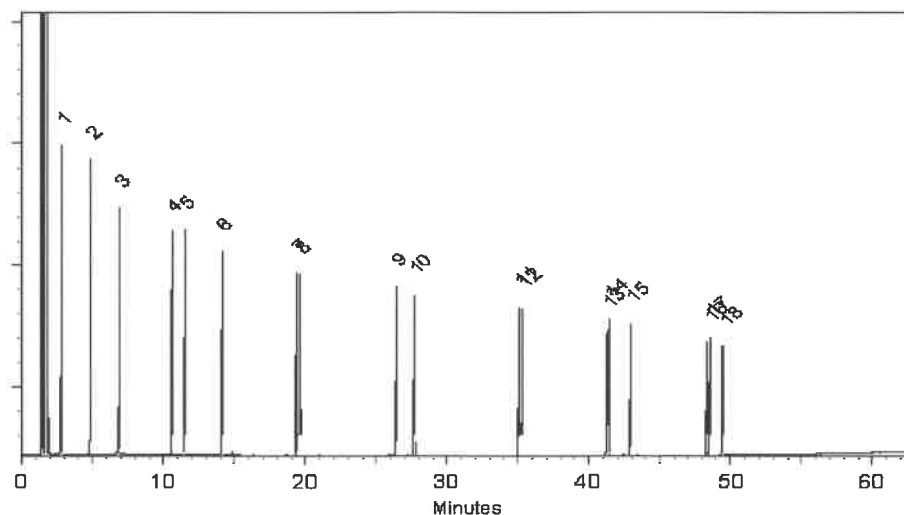
Inj. Temp:
250°C

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 - Operations Tech II

Date Mixed: 14-Oct-2024 **Balance Serial #** 1128360905


Brittany Federinko - Operations Tech I

Date Passed: 21-Oct-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

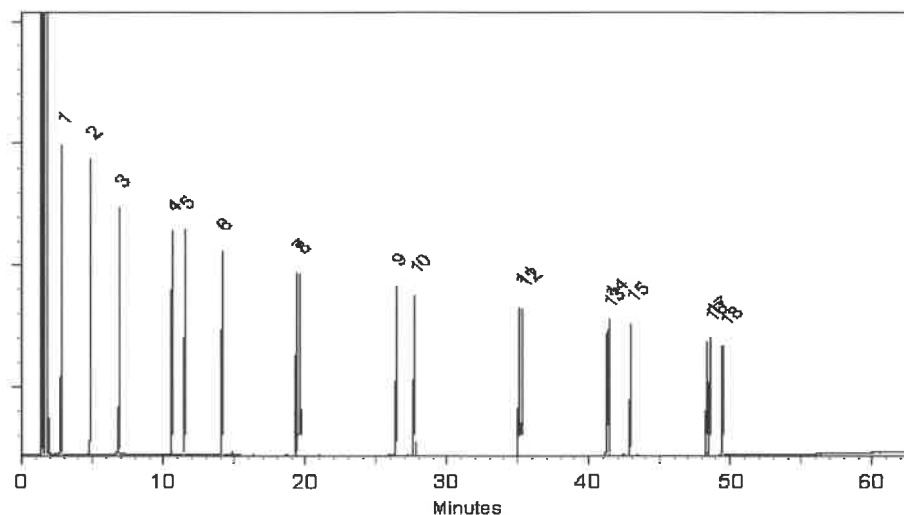
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	200.0 µg/mL	+/- 9.0114
18	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	199.0 µg/mL	+/- 8.9683

* 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.
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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.:** A0220580

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 : November 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13863 } y.p.
↓
P13866 } 01/08/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2	µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3	µg/mL	+/- 9.0255

* 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.)

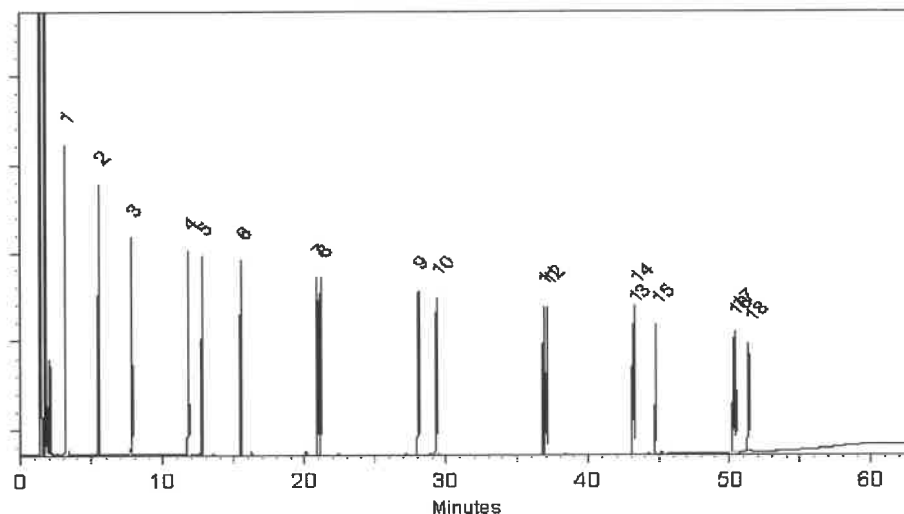
Inj. Temp:
250°C

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.

Ven Kelley
Ven Kelley - Operations Tech I

Date Mixed: 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543 **Lot No.:** A0220580

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 : November 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13863 } y.p.
↓
P13866 } 01/08/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,3-Trimethylbenzene	526-73-8	8776.10-39	98%	201.9 µg/mL	+/- 9.0961
2	Naphthalene	91-20-3	STBL1057	99%	200.8 µg/mL	+/- 9.0474
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	RP241029RSR	98%	201.9 µg/mL	+/- 9.0961
5	Acenaphthene	83-32-9	MKCR7169	99%	200.4 µg/mL	+/- 9.0294
6	Fluorene	86-73-7	10246250	98%	201.9 µg/mL	+/- 9.0961
7	Phenanthrene	85-01-8	MKCT3391	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	MKCW9141	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	MKCQ4728	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCL8032	99%	201.6 µg/mL	+/- 9.0835
11	Benz(a)anthracene	56-55-3	I220012022BAA	99%	202.0 µg/mL	+/- 9.1015
12	Chrysene	218-01-9	RP240719RSR	99%	202.0 µg/mL	+/- 9.1015
13	Benzo(b)fluoranthene	205-99-2	SBS-BBF-FINAL-2	99%	202.0 µg/mL	+/- 9.1015
14	Benzo(k)fluoranthene	207-08-9	012022K	98%	201.5 µg/mL	+/- 9.0784
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
16	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	200.6 µg/mL	+/- 9.0383

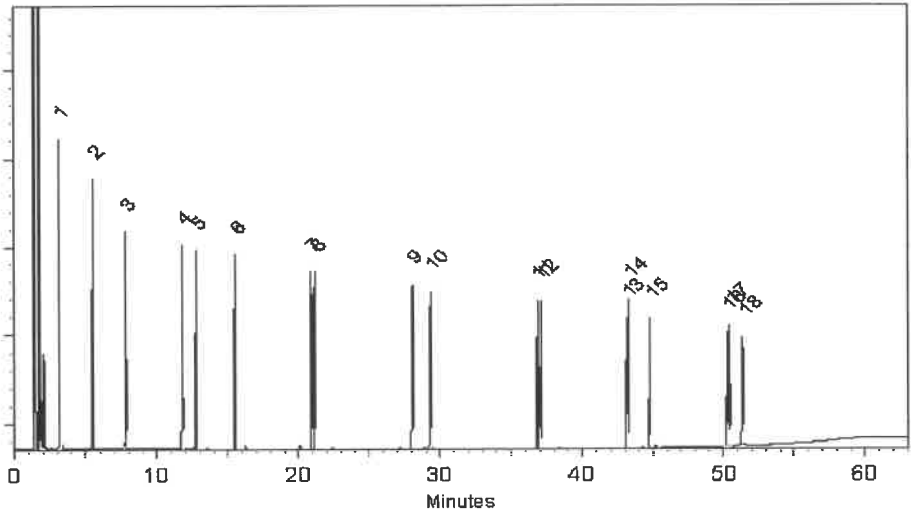
17	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	201.2 µg/mL	+/- 9.0655
18	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	200.3 µg/mL	+/- 9.0255

* 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.

Ven Kelley
Ven Kelley - Operations Tech I **Date Mixed:** 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 03-Jan-2025

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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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%.

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Manufacturing Notes:

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Certificate of Analysis

chromatographic plus



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Catalog No. : 30543 **Lot No.:** A0220580

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 : November 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P13863 } y.p.
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P13866 } 01/08/25

CERTIFIED VALUES

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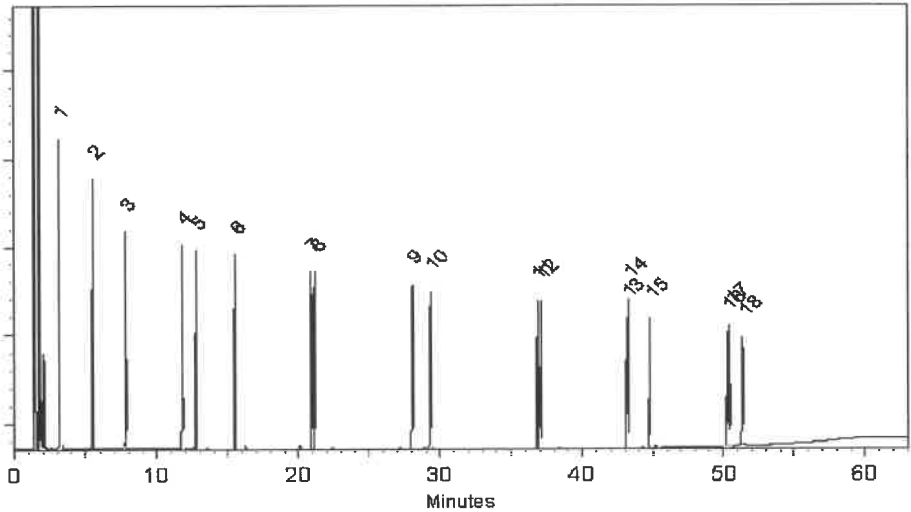
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone/Toluene (50:50)
CAS # 67-64-1/108-88-3
Purity 99%

Quality Confirmation Test

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30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
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@ 4°C/min. (hold 5 min.)
Inj. Temp:
250°C
Det. Temp:
330°C
Det. Type:
FID
Split Vent:
20 ml/min.
Inj. Vol
1µl



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Ven Kelley
Ven Kelley - Operations Tech I **Date Mixed:** 30-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 03-Jan-2025

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

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SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax (908) 789-8922
 www.chemtech.net

305 Central Ave

Chemtech Project Number

COC Number

West Caldwell

Q1290

CLIENT INFORMATION

Report to be sent to:
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP:
 ATTENTION:
 PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME:
 PROJECT #:
 LOCATION:
 PROJECT MANAGER:
 E-MAIL:
 PHONE: FAX:

BILLING INFORMATION

BILL TO:
 ADDRESS:
 CITY: STATE: ZIP:
 ATTENTION:
 PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH):
 HARD COPY (DATA PACKAGE):
 EDD: DAYS*
 TO BE APPROVED BY CHEMTECH: DAYS*

STANDARD HARD COPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
☐ Level 2 (Results + QC)
☐ Level 3 (Results + QC + Raw Data)
☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
☐ NJ Reduced ☐ US EPA CLP
☐ NYS ASP A ☐ NYS ASP B
☐ Other

ANALYSIS



PRESERVATIVES

COMMENTS

Specify Preservatives
 A-HCl D-NaOH
 B-HNO3 E-ICE
 C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	WASTE				2/4	2:15	1										
2.	VOC					8:15	1										
3.	1					8:45	1										
4.	2					9:15	1										
5.	3					9:30	1										
6.	4					10:05	1										
7.	5						1										
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

1.

DATE/TIME 2-4-25 14:17

RECEIVED BY

RELINQUISHED BY

2.

DATE/TIME

RECEIVED BY

RELINQUISHED BY

3.

DATE/TIME 2-4-25 15:00

RECEIVED FOR LAB BY

Page of

CLIENT: ☐ Hand Delivered ☐ Other:

CHEMTECH: ☐ Picked Up

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

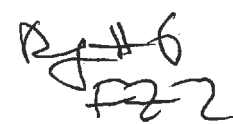
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1290	SCIA01	Order Date : 2/4/2025 2:25:00 PM	Project Mgr :
Client Name : Sciacca General Contractor		Project Name : 305 Central Ave, West Cald	Report Type : Results Only
Client Contact : Rosanne Scirica		Receive DateTime : 2/4/2025 12:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Sciacca General Contractor		Purchase Order : 3:30 PM	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
Q1290-02	VOC	Solid	02/04/2025	08:15	VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By: 
Date / Time : 2-4-25 1520

Received By: 
Date / Time : 02/04/25 15:20 
Storage Area : VOA Refridgerator Room