

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:	Q3277	OrderDate:	10/2/2025 3:50:00 PM
Client:	G Environmental	Project:	Newport
Contact:	Gary Landis	Location:	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3277-01	WC1	Solid	EPH_NF	NJEPH	09/30/25	10/03/25	10/04/25	10/02/25



QC SUMMARY



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

SOIL EPH SURROGATE RECOVERY

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q3277

Run Number: FE100325AL

CLIENT SAMPLE NO.	1-chlorooctadecane (SURR)	ortho-Terphenyl (SURR)		TOT OUT
PB169970BL	83	82		0
PB169970BS	97	92		0
PB169970BSD	96	90		0
279887MS	45	46		0
279887MSD	100	110		0
WC1	71	65		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

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>G Environmental</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3277</u>
Sample No :	<u>Q3262-08MS</u>	Datafile:	<u>FE056170.D</u>
		Client ID :	<u>279887MS</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	34.3	71.3	80.3	26	*	(40-140)
Aliphatic C9-C28	114.3	8000	7170	726	*	(40-140)

SOLID EPH_NF MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>G Environmental</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3277</u>
Sample No :	<u>Q3262-08MSD</u>	Datafile:	<u>FE056171.D</u>
		Client ID :	<u>279887MSD</u>

COMPOUND	SPIKE ADDED mg/kg	SAMPLE CONCENTRATION mg/kg	MS/MSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aliphatic C28-C40	34.3	71.3	79.7	24	*	7.11 (40-140)	50
Aliphatic C9-C28	114.4	8000	7070	819	*	12 (40-140)	50

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name: Alliance **Client:** G Environmental
Lab Code: ACE **SDG No:** Q3277
Sample No : PB169970BS **Datafile:** FE056165.D **Client ID :** PB169970BS

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	QC LIMITS (%)
Aliphatic C28-C40	30.0	32.2	107		(40-140)
Aliphatic C9-C28	99.9	96.7	96		(40-140)

SOLID EPH_NF LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY

Lab Name:	<u>Alliance</u>	Client:	<u>G Environmental</u>
Lab Code:	<u>ACE</u>	SDG No:	<u>Q3277</u>
Sample No :	<u>PB169970BSD</u>	Datafile:	<u>FE056166.D</u>
		Client ID :	<u>PB169970BSD</u>

COMPOUND	SPIKE ADDED mg/kg	LCS/LCSD CONCENTRATION mg/kg	% REC	Qual	RPD QC LIMITS (%)	QC Limit Of RPD
Aliphatic C28-C40	30.0	34.0	113		5.8 (40-140)	25
Aliphatic C9-C28	100.1	95.3	94		1.8 (40-140)	25

4B
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169970BL

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q3277

Instrument ID: FID_E

Lab Sample ID: PB169970BL

Matrix: (soil/water) Solid

Date Extracted: 10/3/2025 9:40:00 A

Level: (low/med) low

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

CLIENT SAMPLE NO.	LAB SAMPLE ID
PB169970BS	PB169970BS
PB169970BSD	PB169970BSD
279887MS	Q3262-08MS
279887MSD	Q3262-08MSD
WC1	Q3277-01

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	09/30/25
Project:	Newport	Date Received:	10/02/25
Client Sample ID:	WC1	SDG No.:	Q3277
Lab Sample ID:	Q3277-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	97.6
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 09:40	10/04/25 2:26	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	15.2		1	1.21	2.04	mg/kg FE056186.D
Aliphatic C9-C28	Aliphatic C9-C28	8.42		1	0.93	4.08	mg/kg FE056186.D
Total AliphaticEPH	Total AliphaticEPH	23.6			2.14	6.12	mg/kg
Total EPH	Total EPH	23.6			2.14	6.12	mg/kg

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	09/30/25
Project:	Newport	Date Received:	10/02/25
Client Sample ID:	WC1	SDG No.:	Q3277
Lab Sample ID:	Q3277-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	97.6
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056186.D	1	10/03/25	10/04/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	8.42		0.93	4.08	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.2		1.21	2.04	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.6		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.5		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3277-01	Acq On:	04 Oct 2025 02:26
Client Sample ID:	WC1	Operator:	YP\AJ
Data file:	FE056186.D	Misc:	
Instrument:	FID_E	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.944	1301000	9.291	300	ug/ml
Aliphatic C12-C16	6.945	10.393	2249375	14.666	200	ug/ml
Aliphatic C16-C21	10.394	13.770	7104857	42.831	300	ug/ml
Aliphatic C21-C28	13.771	17.439	8430139	56.758	400	ug/ml
Aliphatic C28-C40	17.440	22.443	30371668	222.908	600	ug/ml
Aliphatic EPH	3.311	22.443	49457039	346.454		ug/ml
ortho-Terphenyl (SURR)	12.069	12.069	6100299	32.51		ug/ml
1-chlorooctadecane (SURR)	13.505	13.505	4971848	35.62		ug/ml
Aliphatic C9-C28	3.311	17.439	19085371	123.546	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056186.D
 Signal(s) : FID1B.ch
 Acq On : 04 Oct 2025 02:26
 Operator : YP\AJ
 Sample : Q3277-01
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 WC1

Integration File: autoint1.e
 Quant Time: Oct 04 03:37:54 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.069	6100299	32.509 ug/ml
Spiked Amount 50.000		Recovery =	65.02%
12) S 1-chlorooctadecane (S...	13.505	4971848	35.624 ug/ml
Spiked Amount 50.000		Recovery =	71.25%

Target Compounds

(f)=RT Delta > 1/2 Window

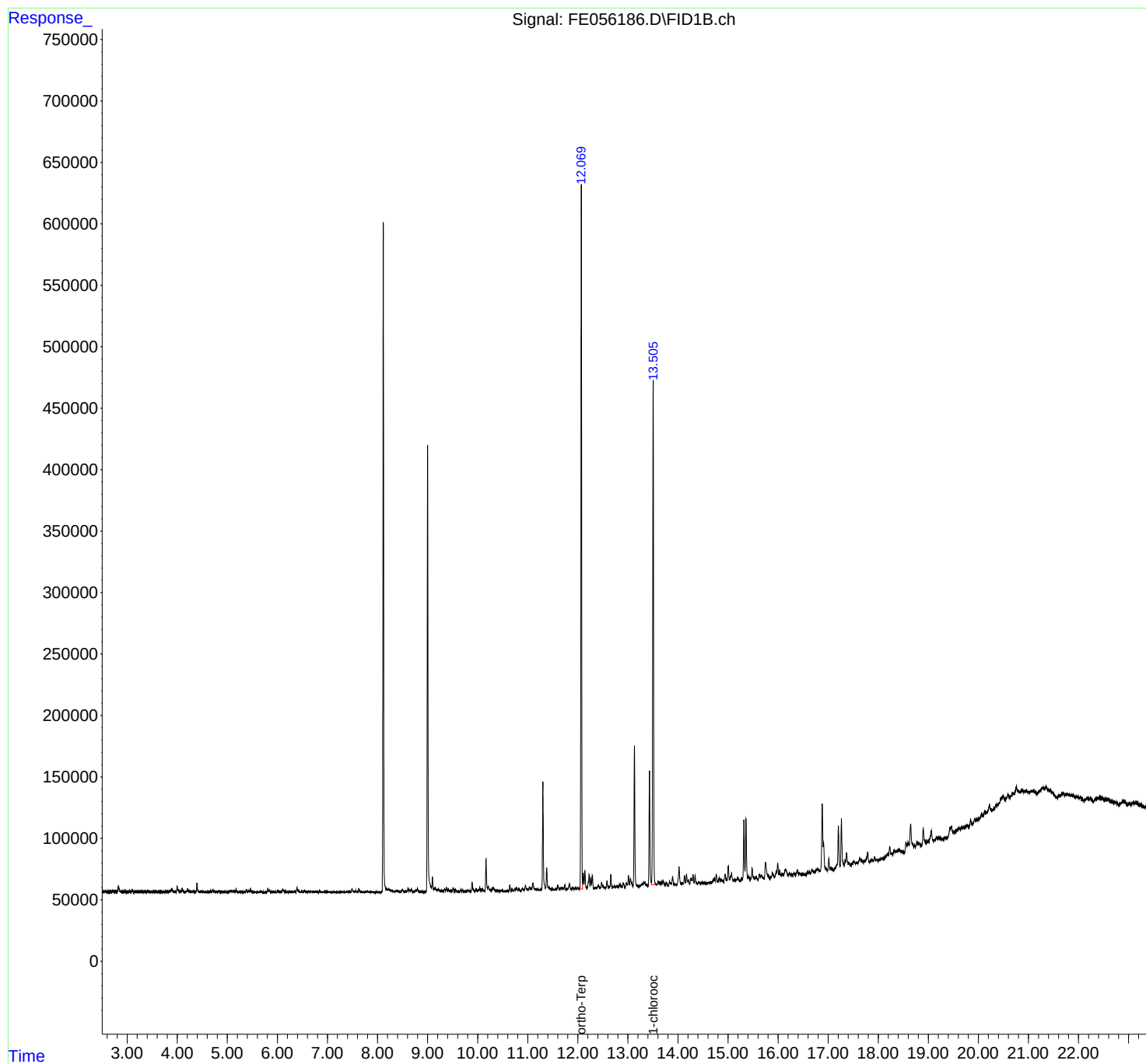
(m)=manual int.

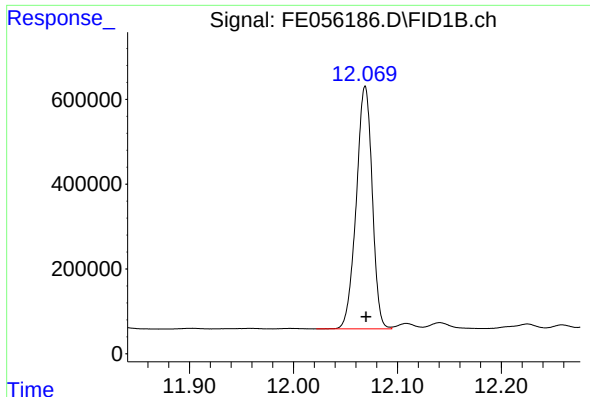
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056186.D
Signal(s) : FID1B.ch
Acq On : 04 Oct 2025 02:26
Operator : YP\AJ
Sample : Q3277-01
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
WC1

Integration File: autoint1.e
Quant Time: Oct 04 03:37:54 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

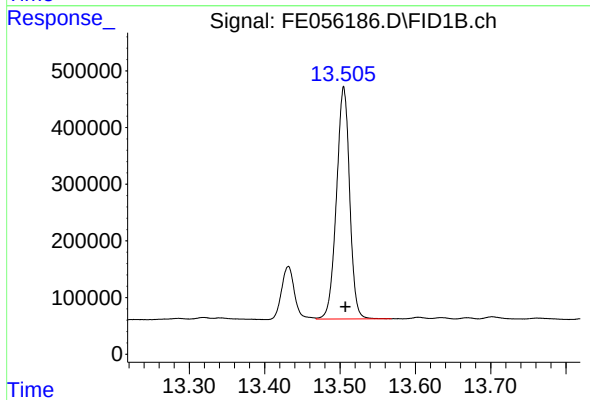




#9 ortho-Terphenyl (SURR)

R.T.: 12.069 min
Delta R.T.: 0.000 min
Response: 6100299
Conc: 32.51 ug/ml

Instrument :
FID_E
ClientSampleId :
WC1



#12 1-chlorooctadecane (SURR)

R.T.: 13.505 min
Delta R.T.: -0.002 min
Response: 4971848
Conc: 35.62 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056186.D
 Signal(s) : FID1B.ch
 Acq On : 04 Oct 2025 02:26
 Sample : Q3277-01
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.821	2.804	2.881	PH	4154	71449	1.17%	0.118%
2	2.901	2.881	2.926	PV	147	2143	0.04%	0.004%
3	2.955	2.926	3.008	VV	612	11394	0.19%	0.019%
4	3.042	3.008	3.072	PV	740	10743	0.18%	0.018%
5	3.101	3.072	3.136	VV	1909	24364	0.40%	0.040%
6	3.150	3.136	3.160	VV	202	2035	0.03%	0.003%
7	3.187	3.160	3.208	VV	374	7162	0.12%	0.012%
8	3.276	3.208	3.314	VV	467	18583	0.30%	0.031%
9	3.324	3.314	3.358	VV	250	3723	0.06%	0.006%
10	3.372	3.358	3.380	PV	106	1167	0.02%	0.002%
11	3.408	3.380	3.459	VV	1162	20768	0.34%	0.034%
12	3.465	3.459	3.504	VV	238	4663	0.08%	0.008%
13	3.526	3.504	3.541	VV	463	6785	0.11%	0.011%
14	3.556	3.541	3.571	VV	412	5788	0.09%	0.010%
15	3.591	3.571	3.611	VV	335	5844	0.10%	0.010%
16	3.625	3.611	3.706	VV	320	13009	0.21%	0.021%
17	3.731	3.706	3.771	VV	476	11583	0.19%	0.019%
18	3.807	3.771	3.823	VV	306	6939	0.11%	0.011%
19	3.881	3.823	3.931	VV	2288	53870	0.88%	0.089%
20	3.942	3.931	3.961	VV	450	6081	0.10%	0.010%
21	3.969	3.961	3.977	VV	305	2624	0.04%	0.004%
22	3.999	3.977	4.078	VV	4702	80566	1.32%	0.133%
23	4.099	4.078	4.161	VV	3188	47248	0.77%	0.078%
24	4.207	4.161	4.229	VV	3021	43258	0.71%	0.071%
25	4.240	4.229	4.276	VV	914	16717	0.27%	0.028%
26	4.280	4.276	4.290	VV	507	3817	0.06%	0.006%
27	4.316	4.290	4.343	VV	813	14658	0.24%	0.024%
28	4.394	4.343	4.425	VV	7299	92771	1.52%	0.153%
29	4.441	4.425	4.536	VV	664	23449	0.38%	0.039%
30	4.566	4.536	4.598	VV	420	10877	0.18%	0.018%
31	4.611	4.598	4.641	VV	510	8484	0.14%	0.014%

					rteres			
32	4.668	4.641	4.690	VV	1436	18536	0.30%	0.030%
33	4.711	4.690	4.734	VV	2668	30801	0.50%	0.051%
34	4.746	4.734	4.768	VV	533	7178	0.12%	0.012%
35	4.783	4.768	4.811	VV	387	6044	0.10%	0.010%
36	4.830	4.811	4.871	VV	1413	19846	0.32%	0.033%
37	4.888	4.871	4.898	VV	321	3812	0.06%	0.006%
38	4.917	4.898	4.936	VV	415	6838	0.11%	0.011%
39	4.954	4.936	4.974	VV	825	9649	0.16%	0.016%
40	4.983	4.974	4.999	VV	373	4598	0.08%	0.008%
41	5.010	4.999	5.027	VV	302	4542	0.07%	0.007%
42	5.060	5.027	5.074	VV	1419	19332	0.32%	0.032%
43	5.090	5.074	5.111	VV	1746	21186	0.35%	0.035%
44	5.132	5.111	5.154	VV	1484	22139	0.36%	0.036%
45	5.173	5.154	5.228	VV	2048	30915	0.51%	0.051%
46	5.254	5.228	5.306	VV	982	13598	0.22%	0.022%
47	5.345	5.306	5.357	VV	410	7132	0.12%	0.012%
48	5.378	5.357	5.409	VV	2150	32852	0.54%	0.054%
49	5.429	5.409	5.444	VV	1199	16717	0.27%	0.028%
50	5.461	5.444	5.479	VV	3082	32914	0.54%	0.054%
51	5.488	5.479	5.507	VV	768	8706	0.14%	0.014%
52	5.518	5.507	5.536	VV	323	3677	0.06%	0.006%
53	5.546	5.536	5.571	VV	136	1708	0.03%	0.003%
54	5.589	5.571	5.600	VV	213	2829	0.05%	0.005%
55	5.616	5.600	5.641	VV	469	6667	0.11%	0.011%
56	5.667	5.641	5.748	VV	891	20107	0.33%	0.033%
57	5.754	5.748	5.768	VV	147	1126	0.02%	0.002%
58	5.809	5.768	5.827	PV	3506	38119	0.62%	0.063%
59	5.843	5.827	5.907	VV	2170	32723	0.54%	0.054%
60	5.926	5.907	5.958	VV	643	10577	0.17%	0.017%
61	5.964	5.958	5.973	VV	218	1617	0.03%	0.003%
62	6.006	5.973	6.026	VV	1404	22204	0.36%	0.037%
63	6.037	6.026	6.052	VV	732	8411	0.14%	0.014%
64	6.071	6.052	6.085	VV	423	7403	0.12%	0.012%
65	6.107	6.085	6.147	VV	2833	47857	0.78%	0.079%
66	6.164	6.147	6.185	VV	1161	15010	0.25%	0.025%
67	6.202	6.185	6.219	VV	758	9317	0.15%	0.015%
68	6.240	6.219	6.274	VV	635	13782	0.23%	0.023%
69	6.293	6.274	6.317	VV	782	12249	0.20%	0.020%
70	6.349	6.317	6.367	VV	920	16825	0.28%	0.028%
71	6.391	6.367	6.464	VV	4020	72000	1.18%	0.118%
72	6.486	6.464	6.507	VV	1113	16382	0.27%	0.027%
73	6.543	6.507	6.604	VV	1329	42372	0.69%	0.070%
74	6.617	6.604	6.634	VV	804	10255	0.17%	0.017%
75	6.659	6.634	6.697	VV	1011	25130	0.41%	0.041%
76	6.710	6.697	6.736	VV	543	9674	0.16%	0.016%
77	6.763	6.736	6.822	VV	815	19568	0.32%	0.032%
78	6.842	6.822	6.892	VV	1413	20216	0.33%	0.033%
79	6.931	6.892	6.948	VV	637	11171	0.18%	0.018%

80	6.967	6.948	6.984	VV	649	10932	0.18%	0.018%
81	6.997	6.984	7.021	VV	1176	12642	0.21%	0.021%
82	7.047	7.021	7.087	VV	550	11098	0.18%	0.018%
83	7.099	7.087	7.109	VV	219	2241	0.04%	0.004%
84	7.132	7.109	7.154	VV	886	11321	0.19%	0.019%
85	7.177	7.154	7.227	PV	604	13705	0.22%	0.023%
86	7.256	7.227	7.281	VV	663	12863	0.21%	0.021%
87	7.292	7.281	7.313	VV	346	4890	0.08%	0.008%
88	7.335	7.313	7.346	VV	426	6629	0.11%	0.011%
89	7.379	7.346	7.408	VV	614	16921	0.28%	0.028%
90	7.422	7.408	7.451	VV	821	13585	0.22%	0.022%
91	7.490	7.451	7.545	VV	3261	59839	0.98%	0.098%
92	7.566	7.545	7.605	VV	1676	26420	0.43%	0.043%
93	7.628	7.605	7.655	VV	3177	40618	0.67%	0.067%
94	7.664	7.655	7.682	VV	575	7068	0.12%	0.012%
95	7.696	7.682	7.725	VV	388	7445	0.12%	0.012%
96	7.792	7.725	7.834	VV	1334	28715	0.47%	0.047%
97	7.843	7.834	7.849	VV	309	2223	0.04%	0.004%
98	7.877	7.849	7.904	VV	412	9003	0.15%	0.015%
99	7.921	7.904	7.938	VV	200	2797	0.05%	0.005%
100	7.973	7.938	8.004	VV	381	7472	0.12%	0.012%
101	8.027	8.004	8.042	PV	213	3206	0.05%	0.005%
102	8.056	8.042	8.071	VV	55	1386	0.02%	0.002%
103	8.227	8.203	8.318	VV	2511	110793	1.81%	0.182%
104	8.324	8.318	8.347	VV	833	13223	0.22%	0.022%
105	8.391	8.347	8.474	VV	1326	57639	0.94%	0.095%
106	8.498	8.474	8.540	VV	1928	43266	0.71%	0.071%
107	8.574	8.540	8.584	VV	853	18264	0.30%	0.030%
108	8.609	8.584	8.626	VV	3699	48631	0.80%	0.080%
109	8.638	8.626	8.654	VV	2117	25321	0.41%	0.042%
110	8.676	8.654	8.718	VV	2332	43501	0.71%	0.072%
111	8.742	8.718	8.752	VV	1064	14703	0.24%	0.024%
112	8.798	8.752	8.834	VV	2804	68161	1.12%	0.112%
113	8.847	8.834	8.866	VV	735	8941	0.15%	0.015%
114	8.887	8.866	8.920	VV	850	13521	0.22%	0.022%
115	8.936	8.920	8.952	VV	442	4321	0.07%	0.007%
116	9.096	9.076	9.128	VV	12341	180875	2.96%	0.298%
117	9.146	9.128	9.198	VV	3125	95842	1.57%	0.158%
118	9.218	9.198	9.244	VV	2448	45819	0.75%	0.075%
119	9.255	9.244	9.261	VV	865	8186	0.13%	0.013%
120	9.276	9.261	9.303	VV	814	20058	0.33%	0.033%
121	9.339	9.303	9.358	VV	2300	40659	0.67%	0.067%
122	9.374	9.358	9.395	VV	3807	49193	0.81%	0.081%
123	9.414	9.395	9.447	VV	1777	40283	0.66%	0.066%
124	9.462	9.447	9.478	VV	991	14192	0.23%	0.023%
125	9.508	9.478	9.531	VV	3522	49541	0.81%	0.081%
126	9.550	9.531	9.628	VV	2044	37568	0.62%	0.062%

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127	9.667	9.628	9.684	VV	1891	24908	0.41%	0.041%
128	9.699	9.684	9.732	VV	1423	19166	0.31%	0.032%
129	9.750	9.732	9.767	VV	357	4547	0.07%	0.007%
130	9.803	9.767	9.826	VV	1545	23960	0.39%	0.039%
131	9.845	9.826	9.863	VV	823	11708	0.19%	0.019%
132	9.889	9.863	9.940	VV	7565	115789	1.90%	0.190%
133	9.969	9.940	9.995	VV	2205	40660	0.67%	0.067%
134	10.011	9.995	10.023	VV	1473	17486	0.29%	0.029%
135	10.042	10.023	10.084	VV	2910	55528	0.91%	0.091%
136	10.100	10.084	10.140	VV	1758	33395	0.55%	0.055%
137	10.167	10.140	10.197	VV	26328	324855	5.32%	0.534%
138	10.212	10.197	10.271	VV	4277	97822	1.60%	0.161%
139	10.292	10.271	10.303	VV	3208	41640	0.68%	0.069%
140	10.314	10.303	10.358	VV	3036	56600	0.93%	0.093%
141	10.378	10.358	10.391	VV	975	15791	0.26%	0.026%
142	10.406	10.391	10.434	VV	899	15139	0.25%	0.025%
143	10.474	10.434	10.552	VV	746	21058	0.34%	0.035%
144	10.576	10.552	10.587	PV	184	2196	0.04%	0.004%
145	10.605	10.587	10.618	PV	244	3274	0.05%	0.005%
146	10.641	10.618	10.665	VV	5293	63170	1.03%	0.104%
147	10.684	10.665	10.704	VV	1478	22787	0.37%	0.037%
148	10.745	10.704	10.760	VV	2276	40903	0.67%	0.067%
149	10.775	10.760	10.800	VV	2892	44398	0.73%	0.073%
150	10.819	10.800	10.856	VV	2419	34984	0.57%	0.058%
151	10.894	10.856	10.931	VV	2225	48129	0.79%	0.079%
152	10.955	10.931	11.004	VV	4171	83491	1.37%	0.137%
153	11.032	11.004	11.049	VV	3444	49065	0.80%	0.081%
154	11.064	11.049	11.079	VV	2592	32424	0.53%	0.053%
155	11.104	11.079	11.183	VV	6180	137744	2.26%	0.227%
156	11.198	11.183	11.216	VV	1479	17479	0.29%	0.029%
157	11.234	11.216	11.249	VV	743	11671	0.19%	0.019%
158	11.302	11.249	11.354	VV	88537	1061397	17.38%	1.746%
159	11.378	11.354	11.420	VV	18300	260874	4.27%	0.429%
160	11.430	11.420	11.460	VV	2161	32889	0.54%	0.054%
161	11.477	11.460	11.504	VV	903	19708	0.32%	0.032%
162	11.517	11.504	11.534	VV	402	5141	0.08%	0.008%
163	11.557	11.534	11.574	VV	839	13200	0.22%	0.022%
164	11.597	11.574	11.634	VV	4069	67248	1.10%	0.111%
165	11.669	11.634	11.687	VV	2044	32966	0.54%	0.054%
166	11.705	11.687	11.719	VV	1280	21365	0.35%	0.035%
167	11.740	11.719	11.764	VV	3610	46648	0.76%	0.077%
168	11.833	11.764	11.870	VV	4590	88437	1.45%	0.145%
169	11.902	11.870	11.922	PV	1665	21975	0.36%	0.036%
170	11.958	11.922	11.981	VV	1445	27017	0.44%	0.044%
171	11.998	11.981	12.022	VV	1240	17282	0.28%	0.028%
172	12.069	12.022	12.094	VV	570869	6106457	100.00%	10.046%
173	12.109	12.094	12.124	VV	12972	149302	2.44%	0.246%
174	12.141	12.124	12.183	VV	14775	205580	3.37%	0.338%

175	12.225	12.183	12.243	VV	rteres 11517	189294	3.10%	0.311%
176	12.258	12.243	12.273	VV	9331	107913	1.77%	0.178%
177	12.290	12.273	12.324	VV	10969	141136	2.31%	0.232%
178	12.352	12.324	12.364	VV	709	11444	0.19%	0.019%
179	12.412	12.364	12.453	VV	3059	63327	1.04%	0.104%
180	12.475	12.453	12.555	VV	5203	104531	1.71%	0.172%
181	12.582	12.555	12.628	PV	6022	93083	1.52%	0.153%
182	12.659	12.628	12.698	VV	11123	144352	2.36%	0.237%
183	12.728	12.698	12.748	VV	1748	31107	0.51%	0.051%
184	12.784	12.748	12.801	VV	1296	29553	0.48%	0.049%
185	12.832	12.801	12.844	VV	2187	36279	0.59%	0.060%
186	12.854	12.844	12.884	VV	1952	30538	0.50%	0.050%
187	12.904	12.884	12.942	VV	3746	68394	1.12%	0.113%
188	12.971	12.942	12.990	VV	3541	60418	0.99%	0.099%
189	13.013	12.990	13.031	VV	9525	129938	2.13%	0.214%
190	13.052	13.031	13.100	VV	7263	160281	2.62%	0.264%
191	13.131	13.100	13.184	VV	114706	1354222	22.18%	2.228%
192	13.196	13.184	13.213	VV	1146	14355	0.24%	0.024%
193	13.228	13.213	13.244	VV	824	12112	0.20%	0.020%
194	13.286	13.244	13.300	VV	2813	55259	0.90%	0.091%
195	13.319	13.300	13.332	VV	4377	59498	0.97%	0.098%
196	13.341	13.332	13.401	VV	3493	73994	1.21%	0.122%
197	13.431	13.401	13.468	VV	94231	1145047	18.75%	1.884%
198	13.505	13.468	13.584	VV	409867	5075978	83.12%	8.350%
199	13.604	13.584	13.620	VV	4217	62407	1.02%	0.103%
200	13.634	13.620	13.653	VV	3585	49657	0.81%	0.082%
201	13.669	13.653	13.684	VV	3280	42050	0.69%	0.069%
202	13.702	13.684	13.743	VV	4993	86756	1.42%	0.143%
203	13.762	13.743	13.804	VV	2536	48971	0.80%	0.081%
204	13.830	13.804	13.869	PV	3149	70938	1.16%	0.117%
205	13.893	13.869	13.921	VV	7094	112573	1.84%	0.185%
206	13.933	13.921	13.965	VV	1058	17657	0.29%	0.029%
207	14.022	13.965	14.066	VV	14865	271736	4.45%	0.447%
208	14.087	14.066	14.104	VV	2110	29574	0.48%	0.049%
209	14.131	14.104	14.151	VV	7406	104130	1.71%	0.171%
210	14.171	14.151	14.193	VV	8242	116086	1.90%	0.191%
211	14.209	14.193	14.233	VV	3760	58541	0.96%	0.096%
212	14.258	14.233	14.273	VV	5315	78102	1.28%	0.128%
213	14.301	14.273	14.324	VV	8200	137479	2.25%	0.226%
214	14.343	14.324	14.386	VV	7012	100897	1.65%	0.166%
215	14.418	14.386	14.441	VV	1831	33859	0.55%	0.056%
216	14.469	14.441	14.478	VV	984	16445	0.27%	0.027%
217	14.486	14.478	14.491	VV	981	7223	0.12%	0.012%
218	14.499	14.491	14.518	VV	960	12742	0.21%	0.021%
219	14.529	14.518	14.545	VV	718	8953	0.15%	0.015%
220	14.555	14.545	14.570	VV	502	4731	0.08%	0.008%
221	14.612	14.570	14.631	PV	861	16299	0.27%	0.027%

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222	14.660	14.631	14.675	VV	895	16139	0.26%	0.027%
223	14.726	14.675	14.744	VV	3047	88019	1.44%	0.145%
224	14.765	14.744	14.796	VV	7149	109150	1.79%	0.180%
225	14.823	14.796	14.846	VV	3682	67109	1.10%	0.110%
226	14.863	14.846	14.911	VV	2594	60331	0.99%	0.099%
227	14.941	14.911	14.979	VV	6793	138120	2.26%	0.227%
228	15.004	14.979	15.029	VV	12832	187854	3.08%	0.309%
229	15.069	15.029	15.106	VV	7236	161534	2.65%	0.266%
230	15.128	15.106	15.146	VV	1695	30632	0.50%	0.050%
231	15.194	15.146	15.243	VV	2971	79925	1.31%	0.131%
232	15.271	15.243	15.286	VV	2231	30209	0.49%	0.050%
233	15.317	15.286	15.337	VV	49384	610614	10.00%	1.005%
234	15.358	15.337	15.392	VV	50174	692566	11.34%	1.139%
235	15.406	15.392	15.439	VV	3730	64685	1.06%	0.106%
236	15.480	15.439	15.531	VV	9234	189505	3.10%	0.312%
237	15.560	15.531	15.594	VV	2392	52656	0.86%	0.087%
238	15.625	15.594	15.645	PV	3810	61822	1.01%	0.102%
239	15.661	15.645	15.721	VV	3315	85128	1.39%	0.140%
240	15.749	15.721	15.834	VV	13634	327213	5.36%	0.538%
241	15.886	15.834	15.926	VV	4588	100474	1.65%	0.165%
242	15.992	15.926	16.014	VV	11834	257554	4.22%	0.424%
243	16.031	16.014	16.062	VV	6059	95447	1.56%	0.157%
244	16.079	16.062	16.107	VV	2404	52924	0.87%	0.087%
245	16.152	16.107	16.196	VV	6271	197310	3.23%	0.325%
246	16.231	16.196	16.254	VV	2904	64498	1.06%	0.106%
247	16.273	16.254	16.295	VV	1708	32100	0.53%	0.053%
248	16.316	16.295	16.340	VV	2772	41657	0.68%	0.069%
249	16.385	16.340	16.410	VV	4993	102652	1.68%	0.169%
250	16.425	16.410	16.473	VV	1725	35762	0.59%	0.059%
251	16.495	16.473	16.508	VV	612	8385	0.14%	0.014%
252	16.524	16.508	16.544	PV	549	4228	0.07%	0.007%
253	16.592	16.544	16.607	PV	1986	30577	0.50%	0.050%
254	16.626	16.607	16.646	VV	1689	27372	0.45%	0.045%
255	16.671	16.646	16.714	VV	3100	72737	1.19%	0.120%
256	16.793	16.714	16.837	VV	3445	143794	2.35%	0.237%
257	16.882	16.837	16.984	VV	55349	1190723	19.50%	1.959%
258	17.014	16.984	17.036	VV	10159	135028	2.21%	0.222%
259	17.048	17.036	17.091	VV	2091	41377	0.68%	0.068%
260	17.105	17.091	17.118	VV	708	6584	0.11%	0.011%
261	17.205	17.118	17.237	PV	34981	563640	9.23%	0.927%
262	17.265	17.237	17.315	VV	40062	618774	10.13%	1.018%
263	17.338	17.315	17.349	VV	6548	92029	1.51%	0.151%
264	17.367	17.349	17.400	VV	11693	204851	3.35%	0.337%
265	17.416	17.400	17.439	VV	3927	58486	0.96%	0.096%
266	17.510	17.439	17.547	VV	3508	142582	2.33%	0.235%
267	17.569	17.547	17.584	VV	2126	37913	0.62%	0.062%
268	17.629	17.584	17.702	VV	5012	200312	3.28%	0.330%
269	17.728	17.702	17.741	VV	2508	43267	0.71%	0.071%

270	17.789	17.741	17.830	VV	8678	183354	3.00%	0.302%
271	17.855	17.830	17.865	PV	2005	23424	0.38%	0.039%
272	17.880	17.865	17.904	VV	1984	27524	0.45%	0.045%
273	17.927	17.904	17.949	VV	3677	53277	0.87%	0.088%
274	17.967	17.949	17.992	VV	1158	19717	0.32%	0.032%
275	17.997	17.992	18.005	VV	520	2679	0.04%	0.004%
276	18.029	18.005	18.047	PV	917	13792	0.23%	0.023%
277	18.072	18.047	18.088	VV	830	14645	0.24%	0.024%
278	18.183	18.088	18.197	VV	3038	93620	1.53%	0.154%
279	18.228	18.197	18.255	VV	8523	173631	2.84%	0.286%
280	18.264	18.255	18.287	VV	2863	47998	0.79%	0.079%
281	18.317	18.287	18.341	VV	5168	113569	1.86%	0.187%
282	18.361	18.341	18.371	VV	3799	63771	1.04%	0.105%
283	18.389	18.371	18.401	VV	4100	63092	1.03%	0.104%
284	18.417	18.401	18.456	VV	4843	118463	1.94%	0.195%
285	18.468	18.456	18.524	VV	2526	64564	1.06%	0.106%
286	18.552	18.524	18.574	VV	8582	156774	2.57%	0.258%
287	18.597	18.574	18.617	VV	8449	174430	2.86%	0.287%
288	18.646	18.617	18.709	VV	22760	555122	9.09%	0.913%
289	18.724	18.709	18.744	VV	4333	75401	1.23%	0.124%
290	18.775	18.744	18.791	VV	5931	139322	2.28%	0.229%
291	18.807	18.791	18.862	VV	5450	168677	2.76%	0.277%
292	18.898	18.862	18.958	VV	16230	412074	6.75%	0.678%
293	18.979	18.958	18.990	VV	4674	85173	1.39%	0.140%
294	19.060	18.990	19.112	VV	12674	479071	7.85%	0.788%
295	19.162	19.112	19.184	VV	5975	204923	3.36%	0.337%
296	19.192	19.184	19.212	VV	5482	85178	1.39%	0.140%
297	19.230	19.212	19.266	VV	4995	134329	2.20%	0.221%
298	19.279	19.266	19.303	VV	3342	68497	1.12%	0.113%
299	19.329	19.303	19.344	VV	4008	88418	1.45%	0.145%
300	19.350	19.344	19.358	VV	3862	31049	0.51%	0.051%
301	19.372	19.358	19.381	VV	3698	47839	0.78%	0.079%
302	19.437	19.381	19.451	VV	10605	296372	4.85%	0.488%
303	19.460	19.451	19.503	VV	10886	261805	4.29%	0.431%
304	19.514	19.503	19.523	VV	6425	70526	1.15%	0.116%
305	19.539	19.523	19.547	VV	6896	88030	1.44%	0.145%
306	19.611	19.547	19.637	VV	8786	406762	6.66%	0.669%
307	19.665	19.637	19.686	VV	8798	236678	3.88%	0.389%
308	19.749	19.686	19.758	VV	8660	345724	5.66%	0.569%
309	19.783	19.758	19.810	VV	8938	256379	4.20%	0.422%
310	19.845	19.810	19.890	VV	13274	456538	7.48%	0.751%
311	19.923	19.890	19.943	VV	12693	344671	5.64%	0.567%
312	19.966	19.943	19.982	VV	12091	268946	4.40%	0.442%
313	20.003	19.982	20.014	VV	11513	218650	3.58%	0.360%
314	20.059	20.014	20.096	VV	14497	650245	10.65%	1.070%
315	20.132	20.096	20.151	VV	16380	496944	8.14%	0.818%
316	20.222	20.151	20.262	VV	21281	1130117	18.51%	1.859%

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317	20.277	20.262	20.293	VV	16161	295613	4.84%	0.486%
318	20.311	20.293	20.323	VV	16514	288244	4.72%	0.474%
319	20.352	20.323	20.367	VV	19428	468185	7.67%	0.770%
320	20.391	20.367	20.400	VV	19211	365069	5.98%	0.601%
321	20.494	20.400	20.528	VV	24873	1721516	28.19%	2.832%
322	20.534	20.528	20.544	VV	21828	216785	3.55%	0.357%
323	20.591	20.544	20.628	VV	24905	1152742	18.88%	1.896%
324	20.706	20.628	20.714	VV	24791	1221334	20.00%	2.009%
325	20.760	20.714	20.818	VV	30247	1636616	26.80%	2.692%
326	20.824	20.818	20.838	VV	24629	292549	4.79%	0.481%
327	20.863	20.838	20.898	VV	25531	881555	14.44%	1.450%
328	20.917	20.898	20.925	VV	23903	393614	6.45%	0.648%
329	20.957	20.925	21.008	VV	24608	1146754	18.78%	1.887%
330	21.018	21.008	21.030	VV	22434	297938	4.88%	0.490%
331	21.042	21.030	21.051	VV	22508	279385	4.58%	0.460%
332	21.070	21.051	21.087	VV	22653	488060	7.99%	0.803%
333	21.103	21.087	21.124	VV	22951	485797	7.96%	0.799%
334	21.141	21.124	21.168	VV	20555	522061	8.55%	0.859%
335	21.296	21.168	21.306	VV	23017	1762459	28.86%	2.899%
336	21.316	21.306	21.327	VV	22437	285557	4.68%	0.470%
337	21.353	21.327	21.381	VV	23379	700560	11.47%	1.152%
338	21.391	21.381	21.419	VV	20763	454310	7.44%	0.747%
339	21.430	21.419	21.462	VV	19500	474653	7.77%	0.781%
340	21.475	21.462	21.544	VV	17360	744862	12.20%	1.225%
341	21.554	21.544	21.581	VV	12271	259103	4.24%	0.426%
342	21.621	21.581	21.631	VV	12836	368642	6.04%	0.606%
343	21.708	21.631	21.722	VV	13323	705036	11.55%	1.160%
344	21.744	21.722	21.759	VV	12738	269038	4.41%	0.443%
345	21.785	21.759	21.851	VV	12222	625808	10.25%	1.030%
346	21.855	21.851	21.868	VV	10635	103404	1.69%	0.170%
347	21.873	21.868	21.934	VV	10448	364416	5.97%	0.599%
348	21.952	21.934	21.978	VV	8622	204826	3.35%	0.337%
349	21.987	21.978	22.014	VV	7783	155938	2.55%	0.257%
350	22.031	22.014	22.112	VV	6677	297387	4.87%	0.489%
351	22.172	22.112	22.188	VV	4717	169145	2.77%	0.278%
352	22.195	22.188	22.214	VV	4057	56647	0.93%	0.093%
353	22.236	22.214	22.294	VV	3868	112817	1.85%	0.186%
354	22.333	22.294	22.357	PV	2230	48619	0.80%	0.080%
355	22.389	22.357	22.397	VV	2281	46831	0.77%	0.077%
356	22.414	22.397	22.428	VV	2557	36455	0.60%	0.060%
357	22.442	22.428	22.488	VV	1725	35480	0.58%	0.058%
					Sum of corrected areas:	60787357		

Aliphatic EPH 092425.M Sat Oct 04 07:05:30 2025



CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FE092425AL

AreaCount

Parameter Range	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.D	
Aliphatic C9-C12	37542791.000	22892697.000	8462672.000	4191009.000	2124515.000	
Aliphatic C12-C16	28448375.000	15981763.000	6036724.000	3116285.000	1580906.000	
Aliphatic C16-C21	47319022.000	24326712.000	9480340.000	5176882.000	2683832.000	
Aliphatic C21-C28	56499296.000	28330990.000	11268637.000	6189034.000	3282975.000	
Aliphatic C28-C40	72708634.000	38000593.000	15509370.000	8760386.000	4744762.000	
Aliphatic EPH	242518118.000	129532755.000	50757743.000	27433596.000	14416990.000	

AVG Response Factor

Parameter Range	AVG RF	% RSD				
Aliphatic C9-C12	140027.9566664	6.995				
Aliphatic C12-C16	153376.491	4.607				
Aliphatic C16-C21	165879.737333	5.694				
Aliphatic C21-C28	148527.1505	7.073				
Aliphatic C28-C40	136251.923333	11.27				
Aliphatic EPH	146449.7892216	6.809				

Concentration

Parameter Range	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.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	FE055962.D	FE055963.D	FE055964.D	FE055965.D	FE055966.D	
Aliphatic C9-C12	125142.636666	152617.980000	141044.533333	139700.300000	141634.333333	
Aliphatic C12-C16	142241.875000	159817.630000	150918.100000	155814.250000	158090.600000	
Aliphatic C16-C21	157730.073333	162178.080000	158005.666666	172562.733333	178922.133333	

Initial Calibration Report for SequenceID : FE092425AL

Aliphatic C21-C28	141248.240000	141654.950000	140857.962500	154725.850000	164148.750000	
Aliphatic C28-C40	121181.056666	126668.643333	129244.750000	146006.433333	158158.733333	
Aliphatic EPH	134732.287777	143925.283333	140993.730555	152408.866666	160188.777777	

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055962.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 09:07
 Operator : YP\AJ
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
 Quant Time: Sep 24 11:03:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 11:00:43 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)	12.083	17950450	100.309 ug/ml
Spiked Amount 50.000		Recovery =	200.62%
12) S 1-chlorooctadecane (S...	13.517	13586232	101.305 ug/ml
Spiked Amount 50.000		Recovery =	202.61%
Target Compounds			
1) T n-Nonane (C9)	3.411	12115570	93.377 ug/ml
2) T n-Decane (C10)	4.672	12431596	93.812 ug/ml
3) T A~Naphthalene (C11.7)	6.393	15093772	97.535 ug/ml
4) T n-Dodecane (C12)	6.849	12995625	94.848 ug/ml
5) T A~2-methylnaphthalene...	7.496	15025333	99.098 ug/ml
6) T n-Tetradecane (C14)	8.687	13579491	96.250 ug/ml
7) T n-Hexadecane (C16)	10.303	14868884	97.774 ug/ml
8) T n-Octadecane (C18)	11.755	15922809	98.959 ug/ml
10) T n-Eicosane (C20)	13.069	15819296	100.191 ug/ml
11) T n-Heneicosane (C21)	13.683	15576917	100.620 ug/ml
13) T n-Docosane (C22)	14.272	15366782	100.893 ug/ml
14) T n-Tetracosane (C24)	15.378	14649046	100.840 ug/ml
15) T n-Hexacosane (C26)	16.402	13607731	100.166 ug/ml
16) T n-Octacosane (C28)	17.355	12875737	98.451 ug/ml
17) T n-Tricontane (C30)	18.245	13054346	96.132 ug/ml
18) T n-Dotriacontane (C32)	19.079	12955482	94.902 ug/ml
19) T n-Tetratriacontane (C34)	19.864	12597203	95.888 ug/ml
20) T n-Hexatriacontane (C36)	20.607	11820206	97.397 ug/ml
21) T n-Octatriacontane (C38)	21.384	11503060	99.564 ug/ml
22) T n-Tetracontane (C40)	22.374	10778337	97.367 ug/ml

(f)=RT Delta > 1/2 Window

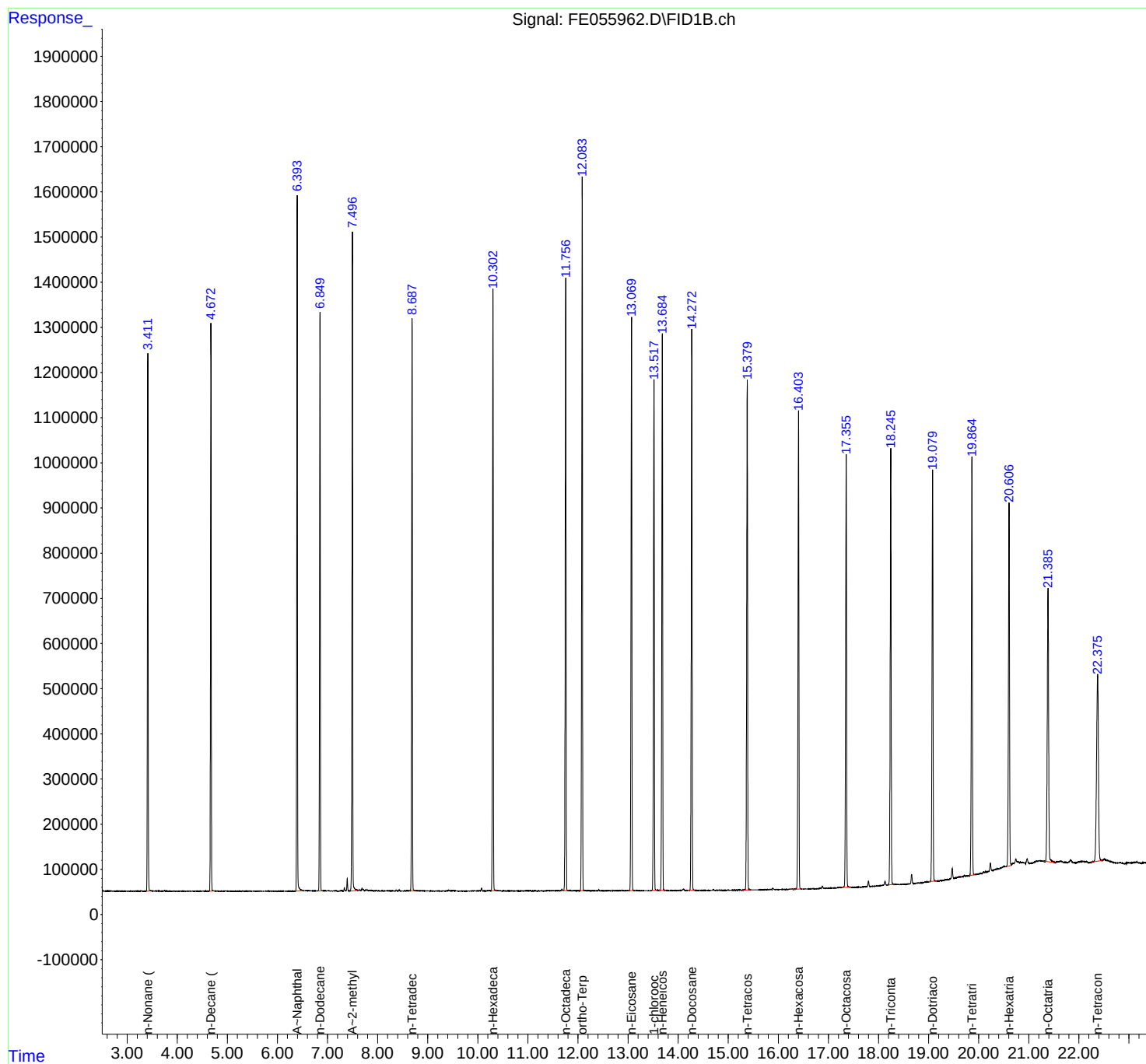
(m)=manual int.

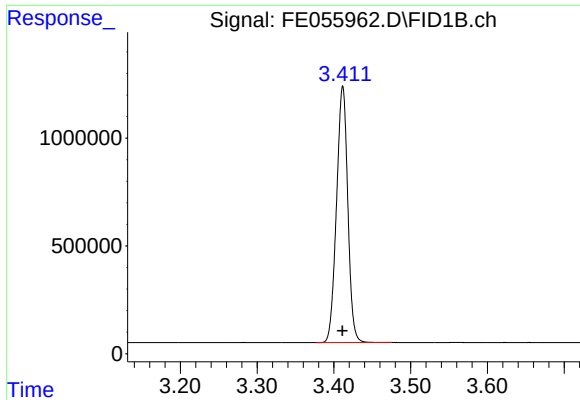
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055962.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:07
Operator : YP\AJ
Sample : 100 PPM ALIPHATIC HC STD1
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e
Quant Time: Sep 24 11:03:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

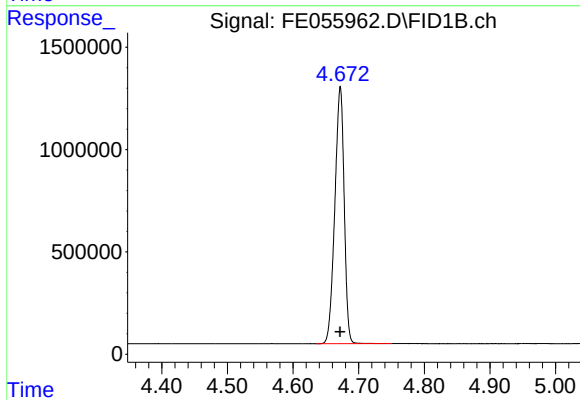




#1 n-Nonane (C9)

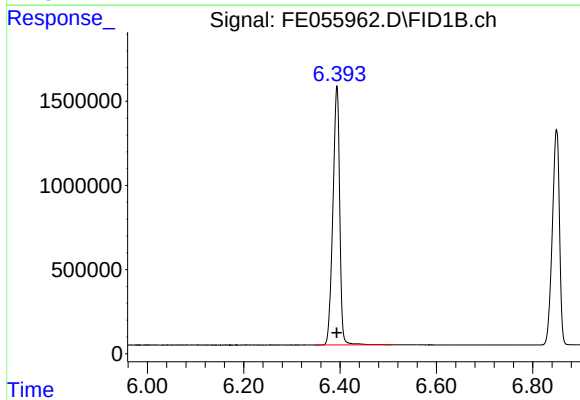
R.T.: 3.411 min
Delta R.T.: 0.000 min
Response: 12115570
Conc: 93.38 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



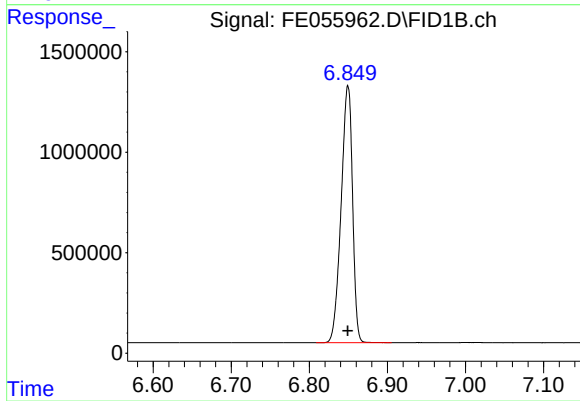
#2 n-Decane (C10)

R.T.: 4.672 min
Delta R.T.: 0.000 min
Response: 12431596
Conc: 93.81 ug/ml



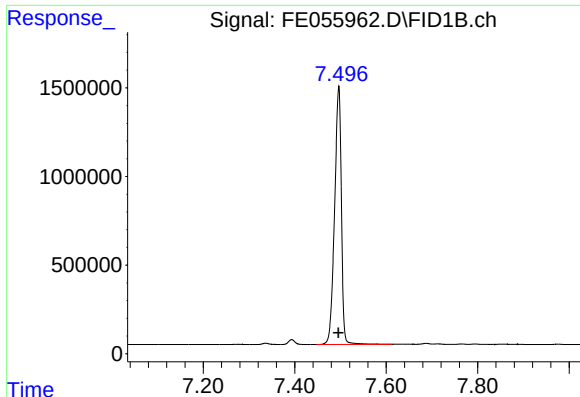
#3 A~Naphthalene (C11.7)

R.T.: 6.393 min
Delta R.T.: 0.000 min
Response: 15093772
Conc: 97.54 ug/ml



#4 n-Dodecane (C12)

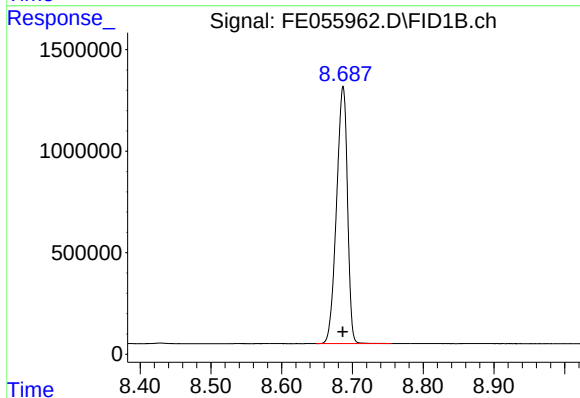
R.T.: 6.849 min
Delta R.T.: 0.000 min
Response: 12995625
Conc: 94.85 ug/ml



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

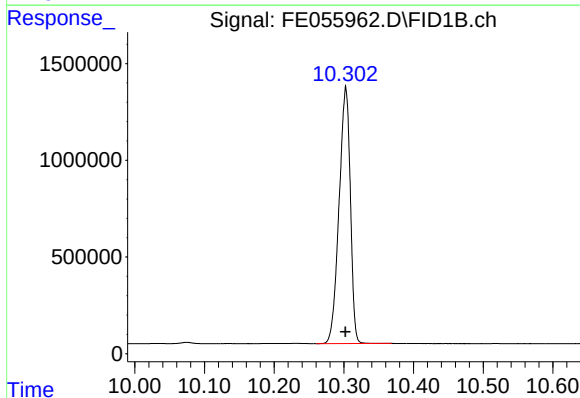
R.T.: 7.496 min
Delta R.T.: 0.000 min
Response: 15025333
Conc: 99.10 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



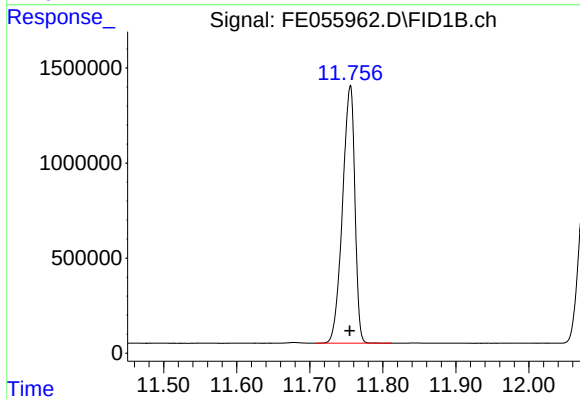
#6 n-Tetradecane (C14)

R.T.: 8.687 min
Delta R.T.: 0.000 min
Response: 13579491
Conc: 96.25 ug/ml



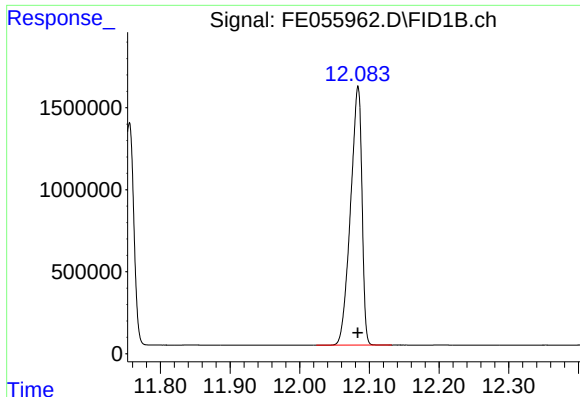
#7 n-Hexadecane (C16)

R.T.: 10.303 min
Delta R.T.: 0.000 min
Response: 14868884
Conc: 97.77 ug/ml



#8 n-Octadecane (C18)

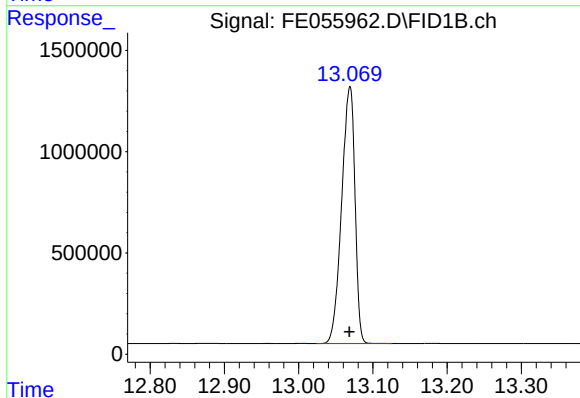
R.T.: 11.755 min
Delta R.T.: 0.000 min
Response: 15922809
Conc: 98.96 ug/ml



#9 ortho-Terphenyl (SURR)

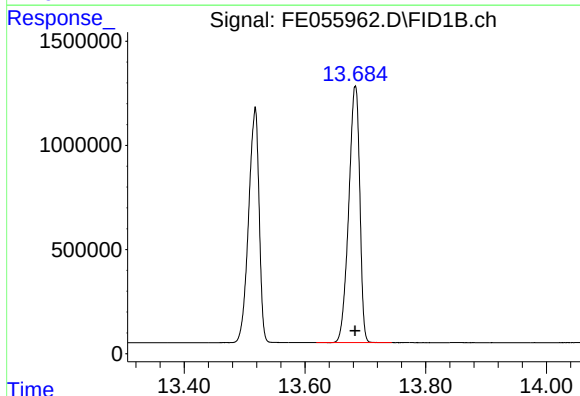
R.T.: 12.083 min
Delta R.T.: 0.000 min
Response: 17950450
Conc: 100.31 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



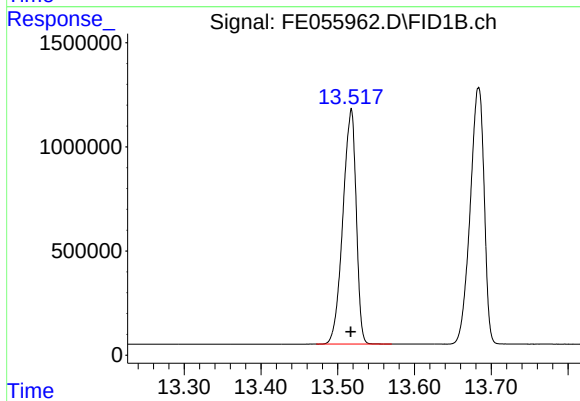
#10 n-Eicosane (C20)

R.T.: 13.069 min
Delta R.T.: 0.000 min
Response: 15819296
Conc: 100.19 ug/ml



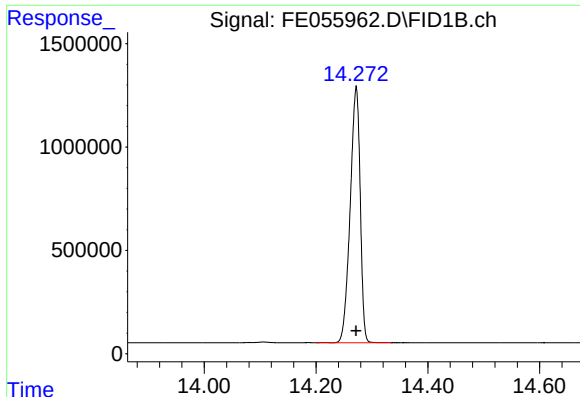
#11 n-Heneicosane (C21)

R.T.: 13.683 min
Delta R.T.: 0.000 min
Response: 15576917
Conc: 100.62 ug/ml



#12 1-chlorooctadecane (SURR)

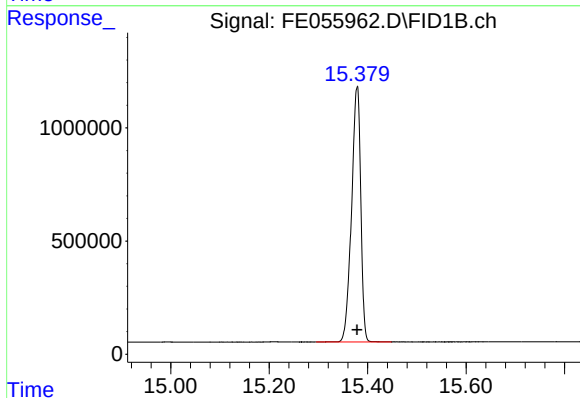
R.T.: 13.517 min
Delta R.T.: 0.000 min
Response: 13586232
Conc: 101.30 ug/ml



#13 n-Docosane (C22)

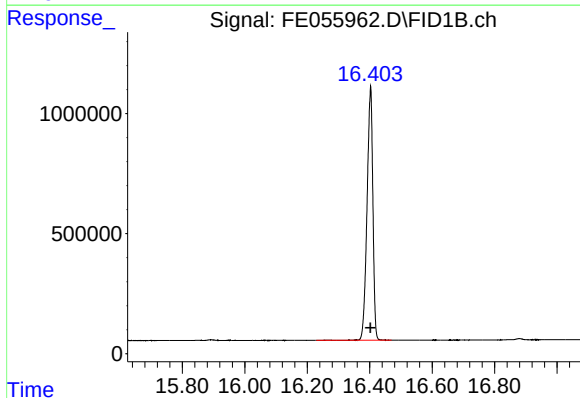
R.T.: 14.272 min
Delta R.T.: 0.000 min
Response: 15366782
Conc: 100.89 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



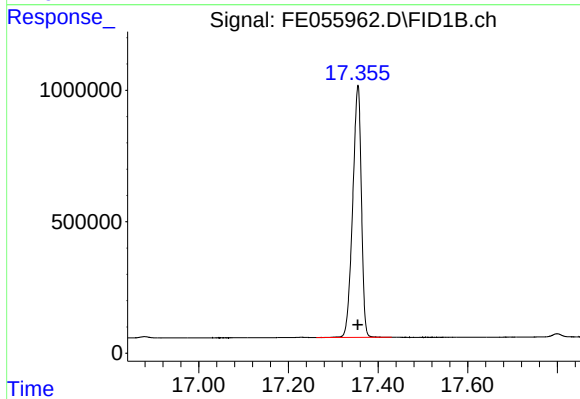
#14 n-Tetracosane (C24)

R.T.: 15.378 min
Delta R.T.: 0.000 min
Response: 14649046
Conc: 100.84 ug/ml



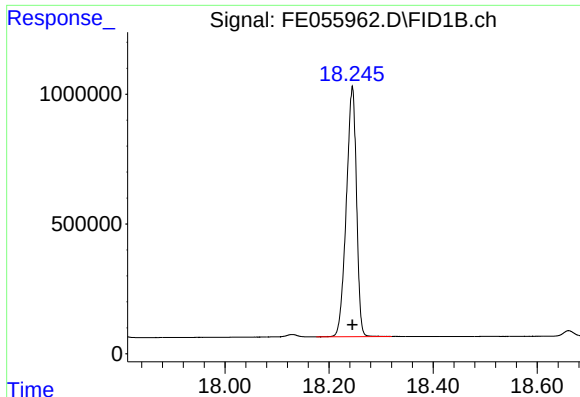
#15 n-Hexacosane (C26)

R.T.: 16.402 min
Delta R.T.: 0.000 min
Response: 13607731
Conc: 100.17 ug/ml



#16 n-Octacosane (C28)

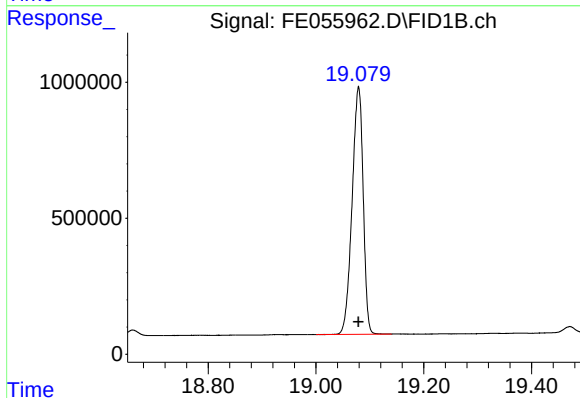
R.T.: 17.355 min
Delta R.T.: 0.000 min
Response: 12875737
Conc: 98.45 ug/ml



#17 n-Tricontane (C30)

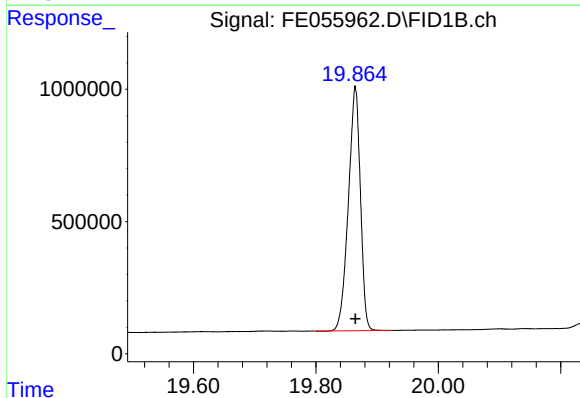
R.T.: 18.245 min
Delta R.T.: 0.000 min
Response: 13054346
Conc: 96.13 ug/ml

Instrument :
FID_E
ClientSampleId :
100 PPM ALIPHATIC HC STD1



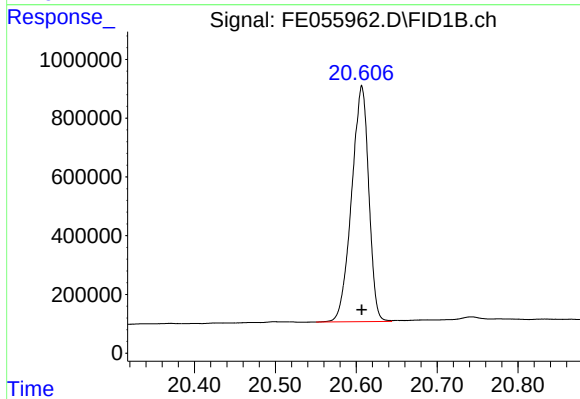
#18 n-Dotriacontane (C32)

R.T.: 19.079 min
Delta R.T.: 0.000 min
Response: 12955482
Conc: 94.90 ug/ml



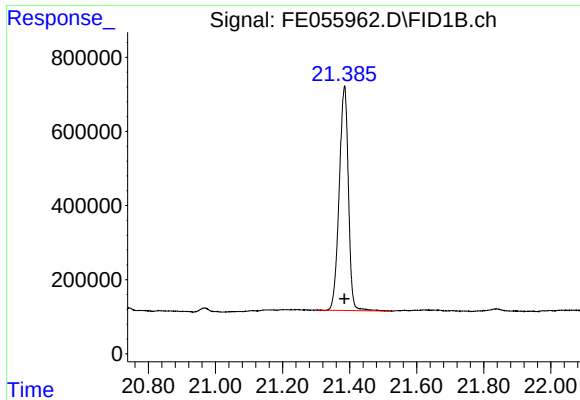
#19 n-Tetratriacontane (C34)

R.T.: 19.864 min
Delta R.T.: 0.000 min
Response: 12597203
Conc: 95.89 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.607 min
Delta R.T.: 0.000 min
Response: 11820206
Conc: 97.40 ug/ml



#21 n-Octatriacontane (C38)

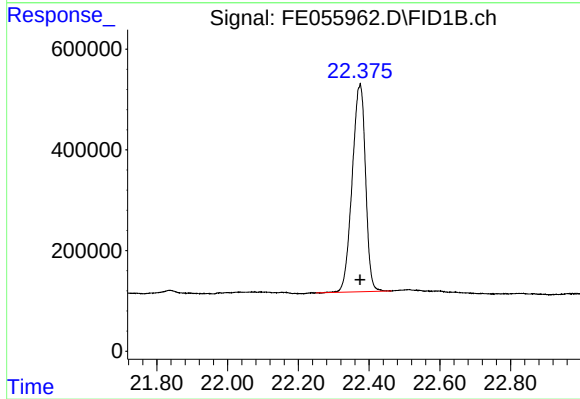
R.T.: 21.384 min
Delta R.T.: 0.000 min
Response: 11503060
Conc: 99.56 ug/ml

Instrument :

FID_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.374 min
Delta R.T.: 0.000 min
Response: 10778337
Conc: 97.37 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055962.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 09:07
 Sample : 100 PPM ALIPHATIC HC STD1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.377	3.475	BB	1193159	12115570	67.49%	3.983%
2	4.672	4.635	4.750	BB	1259842	12431596	69.26%	4.087%
3	6.393	6.350	6.507	BB	1548803	15093772	84.09%	4.962%
4	6.849	6.809	6.905	BB	1279643	12995625	72.40%	4.272%
5	7.496	7.447	7.612	BV	1444836	15025333	83.70%	4.940%
6	8.687	8.649	8.755	BB	1270645	13579491	75.65%	4.464%
7	10.303	10.260	10.369	BB	1320044	14868884	82.83%	4.888%
8	11.755	11.709	11.812	BB	1355244	15922809	88.70%	5.235%
9	12.083	12.024	12.132	BB	1585493	17950450	100.00%	5.901%
10	13.069	13.024	13.125	BB	1269287	15819296	88.13%	5.201%
11	13.517	13.472	13.570	BB	1123920	13586232	75.69%	4.467%
12	13.683	13.619	13.744	BB	1232389	15576917	86.78%	5.121%
13	14.272	14.200	14.335	BB	1243326	15366782	85.61%	5.052%
14	15.378	15.295	15.449	BB	1126624	14649046	81.61%	4.816%
15	16.402	16.229	16.470	BB	1045801	13607731	75.81%	4.474%
16	17.355	17.262	17.430	BB	961185	12875737	71.73%	4.233%
17	18.245	18.175	18.320	BB	969341	13054346	72.72%	4.292%
18	19.079	19.000	19.140	BB	910160	12955482	72.17%	4.259%
19	19.864	19.800	19.924	BB	924104	12597203	70.18%	4.141%
20	20.607	20.550	20.644	BV	804428	11820206	65.85%	3.886%
21	21.385	21.300	21.525	BV	607871	11503060	64.08%	3.782%
22	22.374	22.250	22.464	BV	410718	10778337	60.04%	3.543%
Sum of corrected areas:						304173905		

Aliphatic EPH 092425.M Wed Sep 24 15:36:25 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055963.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 09:37
 Operator : YP\AJ
 Sample : 50 PPM ALIPHATIC HC STD2
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
 Quant Time: Sep 24 11:04:51 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 11:00:43 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)	12.077	9105995	50.587 ug/ml
Spiked Amount 50.000		Recovery =	101.17%
12) S 1-chlorooctadecane (S...	13.512	6779455	50.366 ug/ml
Spiked Amount 50.000		Recovery =	100.73%
Target Compounds			
1) T n-Nonane (C9)	3.414	7521327	55.044 ug/ml
2) T n-Decane (C10)	4.671	7621160	54.769 ug/ml
3) T A~Naphthalene (C11.7)	6.390	8539649	53.340 ug/ml
4) T n-Dodecane (C12)	6.846	7750210	54.193 ug/ml
5) T A~2-methylnaphthalene...	7.492	8232099	52.783 ug/ml
6) T n-Tetradecane (C14)	8.683	7796895	53.390 ug/ml
7) T n-Hexadecane (C16)	10.299	8184868	52.484 ug/ml
8) T n-Octadecane (C18)	11.750	8429200	51.566 ug/ml
10) T n-Eicosane (C20)	13.064	8067243	50.724 ug/ml
11) T n-Heneicosane (C21)	13.679	7830269	50.385 ug/ml
13) T n-Docosane (C22)	14.267	7654502	50.171 ug/ml
14) T n-Tetracosane (C24)	15.374	7266695	50.015 ug/ml
15) T n-Hexacosane (C26)	16.397	6822136	50.145 ug/ml
16) T n-Octacosane (C28)	17.350	6587657	50.247 ug/ml
17) T n-Tricontane (C30)	18.240	6773890	49.922 ug/ml
18) T n-Dotriacontane (C32)	19.075	6740087	49.580 ug/ml
19) T n-Tetratriacontane (C34)	19.861	6516174	49.733 ug/ml
20) T n-Hexatriacontane (C36)	20.601	6074929	50.038 ug/ml
21) T n-Octatriacontane (C38)	21.379	6099413	51.828 ug/ml
22) T n-Tetracontane (C40)	22.366	5796100	51.549 ug/ml

(f)=RT Delta > 1/2 Window

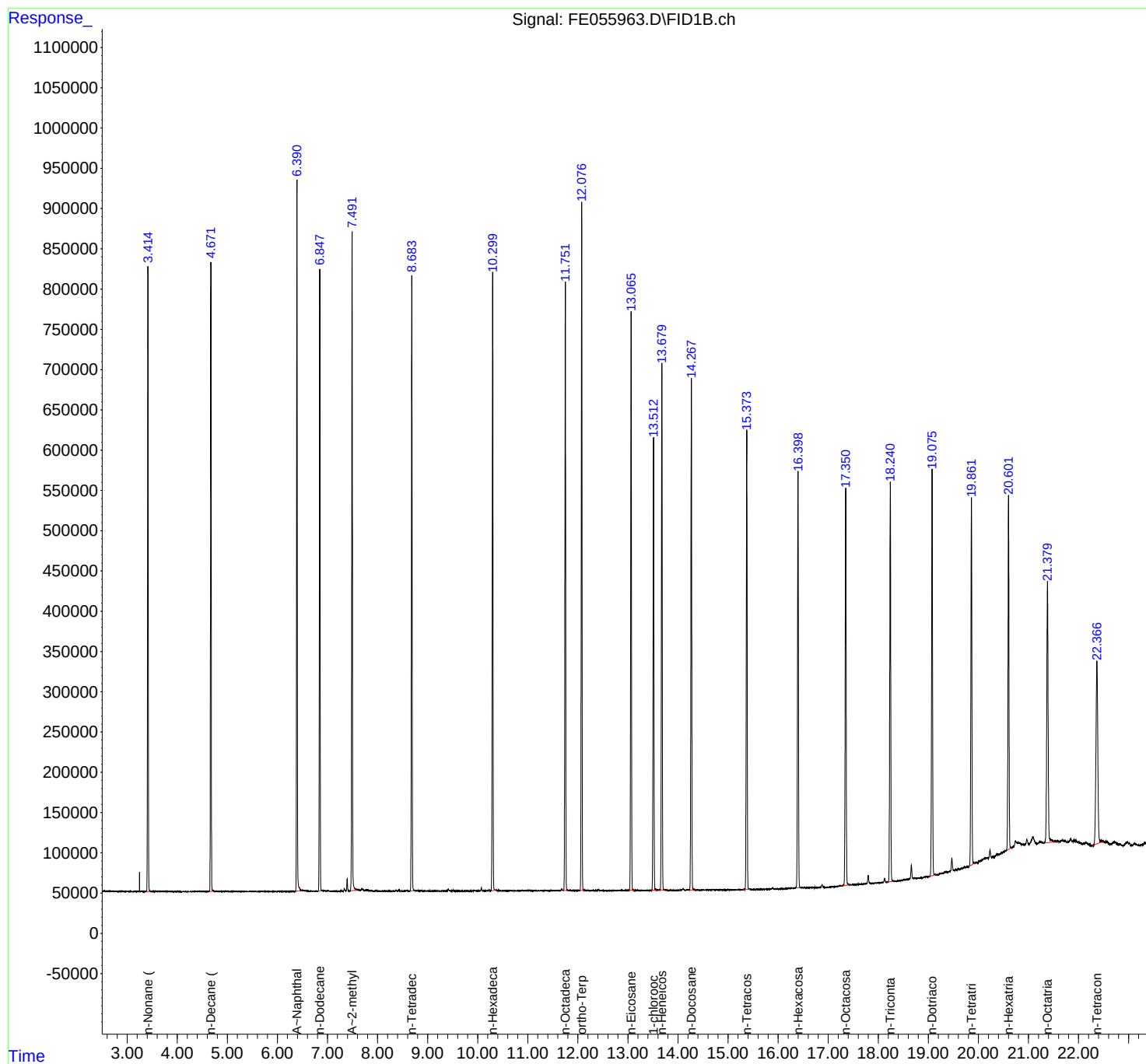
(m)=manual int.

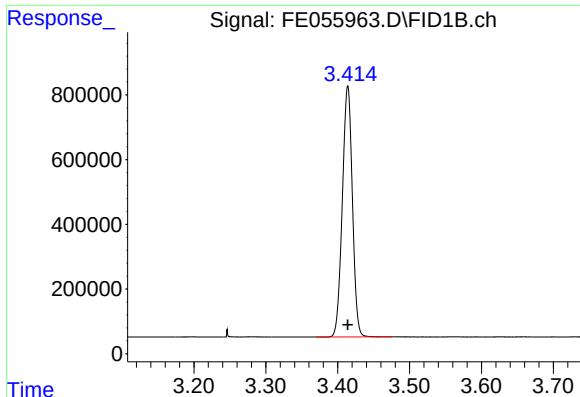
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Operator : YP\AJ
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e
Quant Time: Sep 24 11:04:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

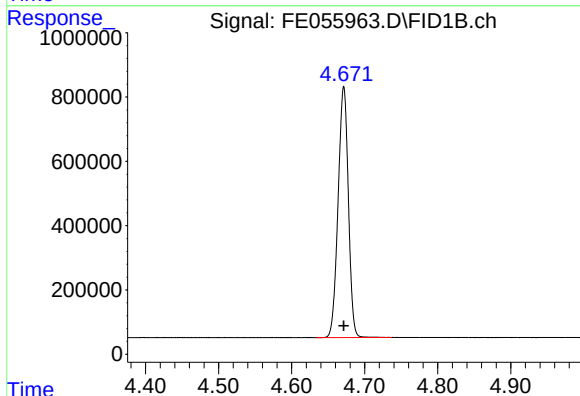




#1 n-Nonane (C9)

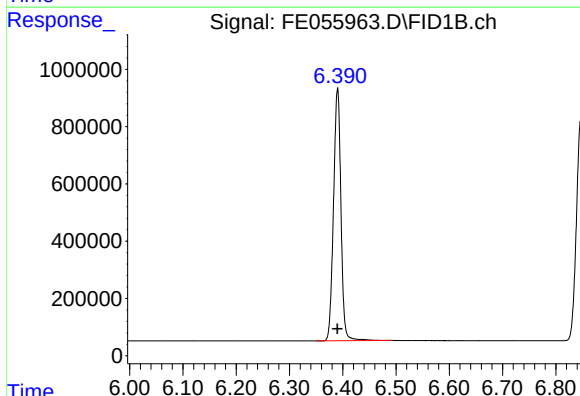
R.T.: 3.414 min
Delta R.T.: 0.000 min
Response: 7521327
Conc: 55.04 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



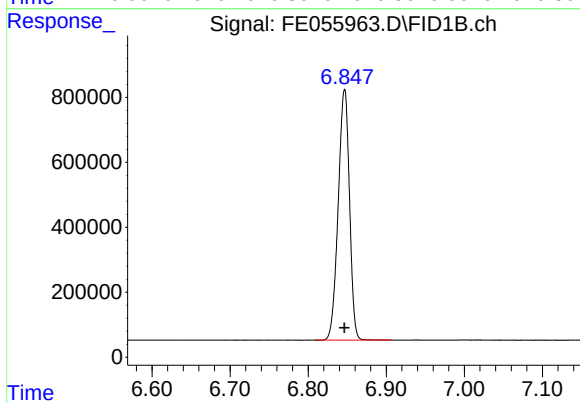
#2 n-Decane (C10)

R.T.: 4.671 min
Delta R.T.: 0.000 min
Response: 7621160
Conc: 54.77 ug/ml



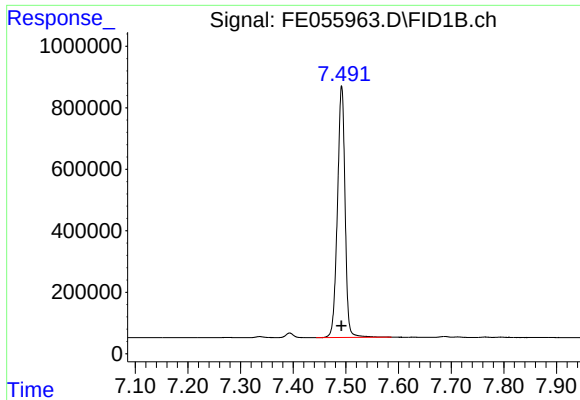
#3 A~Naphthalene (C11.7)

R.T.: 6.390 min
Delta R.T.: 0.000 min
Response: 8539649
Conc: 53.34 ug/ml



#4 n-Dodecane (C12)

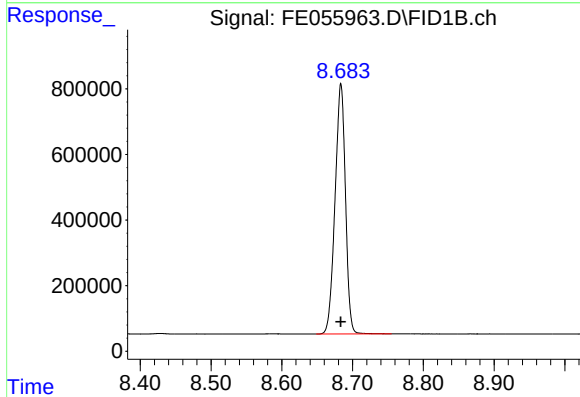
R.T.: 6.846 min
Delta R.T.: 0.000 min
Response: 7750210
Conc: 54.19 ug/ml



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

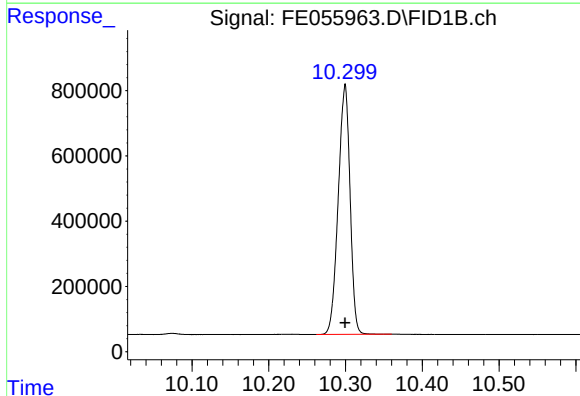
R.T.: 7.492 min
Delta R.T.: 0.000 min
Response: 8232099
Conc: 52.78 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



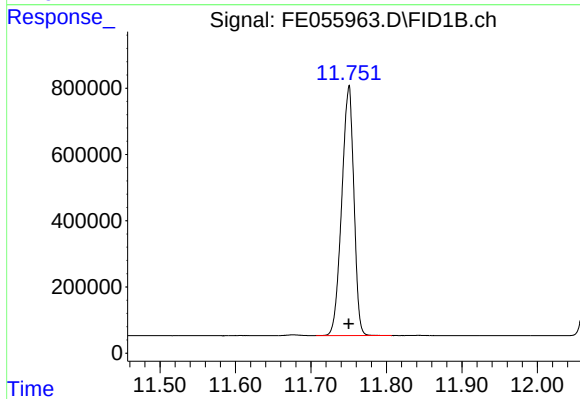
#6 n-Tetradecane (C14)

R.T.: 8.683 min
Delta R.T.: 0.000 min
Response: 7796895
Conc: 53.39 ug/ml



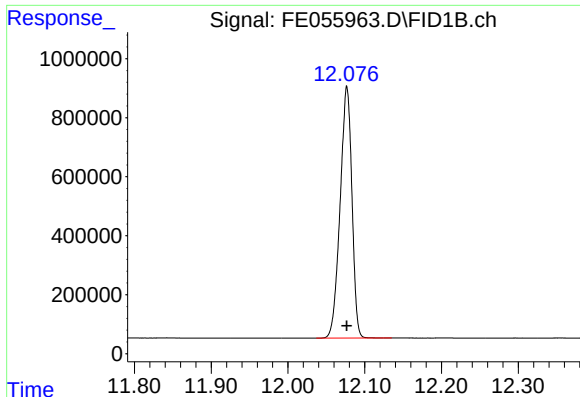
#7 n-Hexadecane (C16)

R.T.: 10.299 min
Delta R.T.: 0.000 min
Response: 8184868
Conc: 52.48 ug/ml



#8 n-Octadecane (C18)

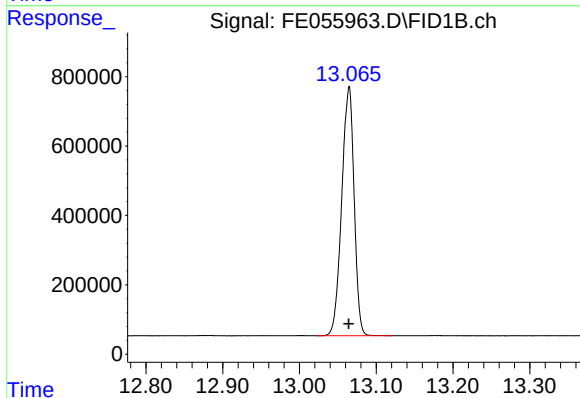
R.T.: 11.750 min
Delta R.T.: 0.000 min
Response: 8429200
Conc: 51.57 ug/ml



#9 ortho-Terphenyl (SURR)

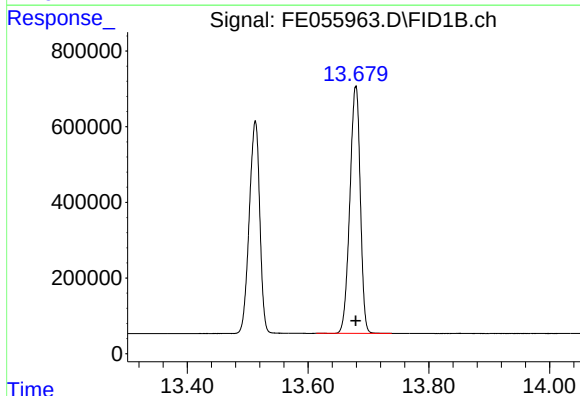
R.T.: 12.077 min
Delta R.T.: 0.000 min
Response: 9105995
Conc: 50.59 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



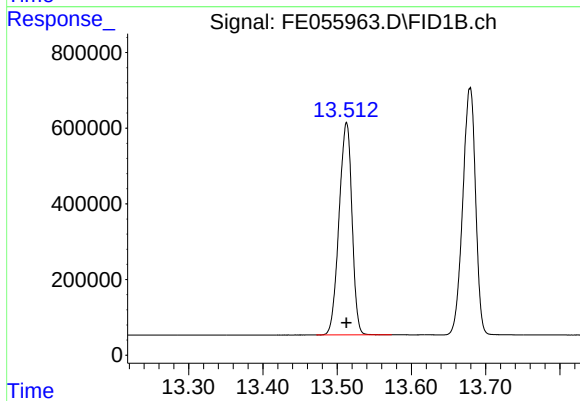
#10 n-Eicosane (C20)

R.T.: 13.064 min
Delta R.T.: 0.000 min
Response: 8067243
Conc: 50.72 ug/ml



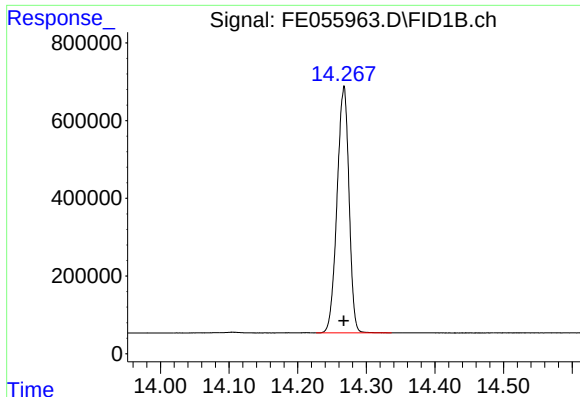
#11 n-Heneicosane (C21)

R.T.: 13.679 min
Delta R.T.: 0.000 min
Response: 7830269
Conc: 50.39 ug/ml



#12 1-chlorooctadecane (SURR)

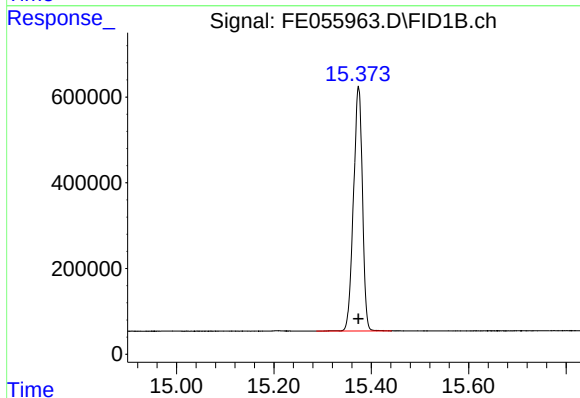
R.T.: 13.512 min
Delta R.T.: 0.000 min
Response: 6779455
Conc: 50.37 ug/ml



#13 n-Docosane (C22)

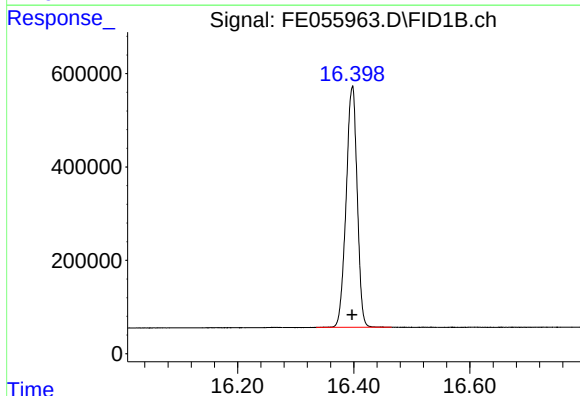
R.T.: 14.267 min
Delta R.T.: 0.000 min
Response: 7654502
Conc: 50.17 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



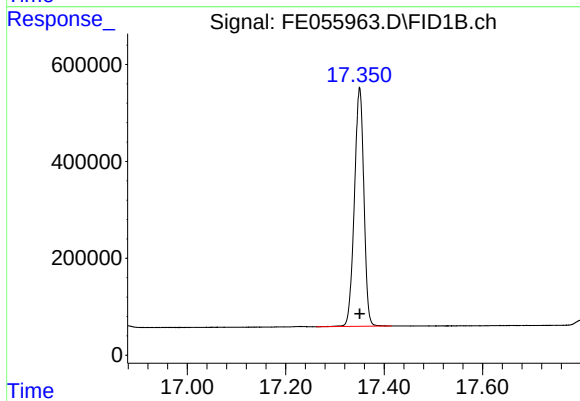
#14 n-Tetracosane (C24)

R.T.: 15.374 min
Delta R.T.: 0.000 min
Response: 7266695
Conc: 50.01 ug/ml



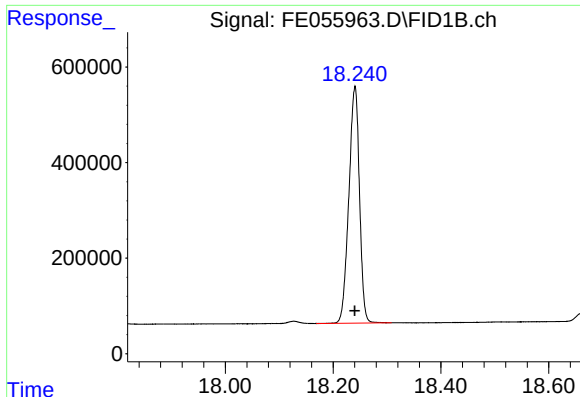
#15 n-Hexacosane (C26)

R.T.: 16.397 min
Delta R.T.: 0.000 min
Response: 6822136
Conc: 50.14 ug/ml



#16 n-Octacosane (C28)

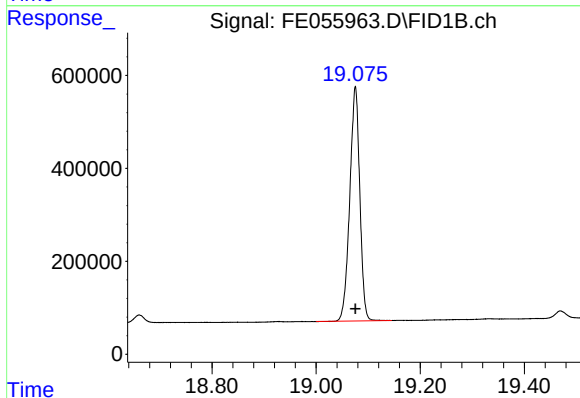
R.T.: 17.350 min
Delta R.T.: 0.000 min
Response: 6587657
Conc: 50.25 ug/ml



#17 n-Tricontane (C30)

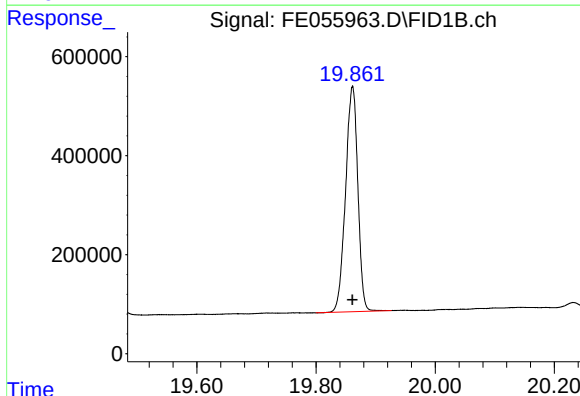
R.T.: 18.240 min
Delta R.T.: 0.000 min
Response: 6773890
Conc: 49.92 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



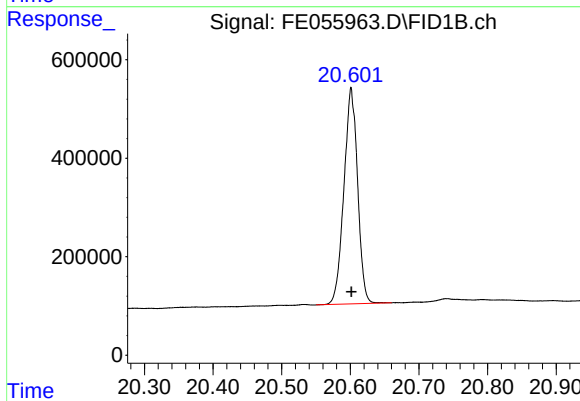
#18 n-Dotriacontane (C32)

R.T.: 19.075 min
Delta R.T.: 0.000 min
Response: 6740087
Conc: 49.58 ug/ml



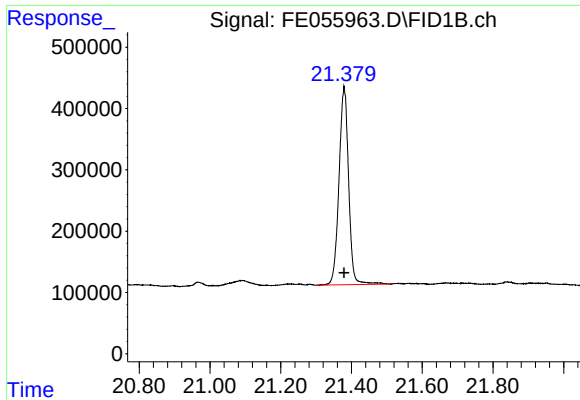
#19 n-Tetratriacontane (C34)

R.T.: 19.861 min
Delta R.T.: 0.000 min
Response: 6516174
Conc: 49.73 ug/ml



#20 n-Hexatriacontane (C36)

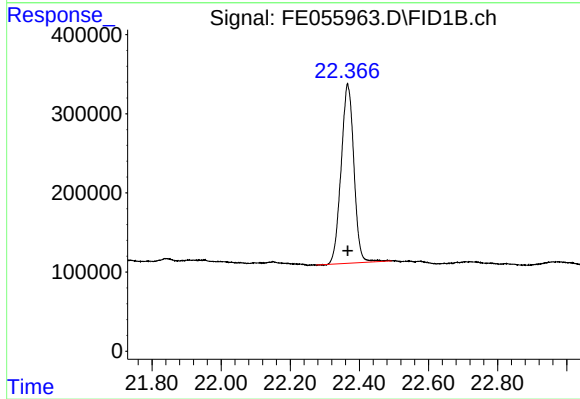
R.T.: 20.601 min
Delta R.T.: 0.000 min
Response: 6074929
Conc: 50.04 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.379 min
Delta R.T.: 0.000 min
Response: 6099413
Conc: 51.83 ug/ml

Instrument :
FID_E
ClientSampleId :
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.366 min
Delta R.T.: 0.000 min
Response: 5796100
Conc: 51.55 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055963.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 09:37
Sample : 50 PPM ALIPHATIC HC STD2
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.414	3.370	3.475	BB	776378	7521327	82.60%	4.637%
2	4.671	4.633	4.737	BB	783988	7621160	83.69%	4.699%
3	6.390	6.350	6.492	BB	881625	8539649	93.78%	5.265%
4	6.847	6.810	6.907	BB	774294	7750210	85.11%	4.778%
5	7.492	7.443	7.587	BB	820251	8232099	90.40%	5.076%
6	8.683	8.648	8.755	BB	764717	7796895	85.62%	4.807%
7	10.299	10.262	10.360	BB	758326	8184868	89.88%	5.046%
8	11.750	11.707	11.807	BB	753100	8429200	92.57%	5.197%
9	12.077	12.037	12.135	BB	854162	9105995	100.00%	5.614%
10	13.064	13.022	13.120	BB	711166	8067243	88.59%	4.974%
11	13.512	13.472	13.573	BB	561964	6779455	74.45%	4.180%
12	13.679	13.613	13.738	BB	653612	7830269	85.99%	4.828%
13	14.267	14.227	14.337	BB	630007	7654502	84.06%	4.719%
14	15.374	15.287	15.442	BB	570219	7266695	79.80%	4.480%
15	16.397	16.335	16.465	BB	514565	6822136	74.92%	4.206%
16	17.350	17.262	17.415	BB	493737	6587657	72.34%	4.062%
17	18.240	18.168	18.308	BB	493734	6773890	74.39%	4.177%
18	19.075	19.000	19.145	BB	505191	6740087	74.02%	4.156%
19	19.861	19.800	19.927	BB	456961	6516174	71.56%	4.018%
20	20.601	20.550	20.660	BB	437030	6074929	66.71%	3.746%
21	21.379	21.300	21.513	BV	323069	6099413	66.98%	3.761%
22	22.366	22.275	22.493	BB	226612	5796100	63.65%	3.574%
Sum of corrected areas:						162189953		

Aliphatic EPH 092425.M Wed Sep 24 15:36:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055964.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 10:07
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD3
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
 Quant Time: Sep 24 11:01:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 11:00:43 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)	12.072	3567994	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
12) S 1-chlorooctadecane (S...	13.509	2647245	20.000 ug/ml
Spiked Amount 50.000		Recovery =	40.00%
Target Compounds			
1) T n-Nonane (C9)	3.411	2766852	20.000 ug/ml
2) T n-Decane (C10)	4.669	2814312	20.000 ug/ml
3) T A~Naphthalene (C11.7)	6.388	3171326	20.000 ug/ml
4) T n-Dodecane (C12)	6.844	2881508	20.000 ug/ml
5) T A~2-methylnaphthalene...	7.489	3059763	20.000 ug/ml
6) T n-Tetradecane (C14)	8.681	2927514	20.000 ug/ml
7) T n-Hexadecane (C16)	10.296	3109210	20.000 ug/ml
8) T n-Octadecane (C18)	11.746	3251555	20.000 ug/ml
10) T n-Eicosane (C20)	13.061	3151785	20.000 ug/ml
11) T n-Heneicosane (C21)	13.675	3077000	20.000 ug/ml
13) T n-Docosane (C22)	14.264	3018934	20.000 ug/ml
14) T n-Tetracosane (C24)	15.369	2880999	20.000 ug/ml
15) T n-Hexacosane (C26)	16.394	2712524	20.000 ug/ml
16) T n-Octacosane (C28)	17.346	2656180	20.000 ug/ml
17) T n-Tricontane (C30)	18.236	2820975	20.000 ug/ml
18) T n-Dotriacontane (C32)	19.071	2869454	20.000 ug/ml
19) T n-Tetratriacontane (C34)	19.856	2735529	20.000 ug/ml
20) T n-Hexatriacontane (C36)	20.598	2490383	20.000 ug/ml
21) T n-Octatriacontane (C38)	21.374	2320773	20.000 ug/ml
22) T n-Tetracontane (C40)	22.360	2272256	20.000 ug/ml

(f)=RT Delta > 1/2 Window

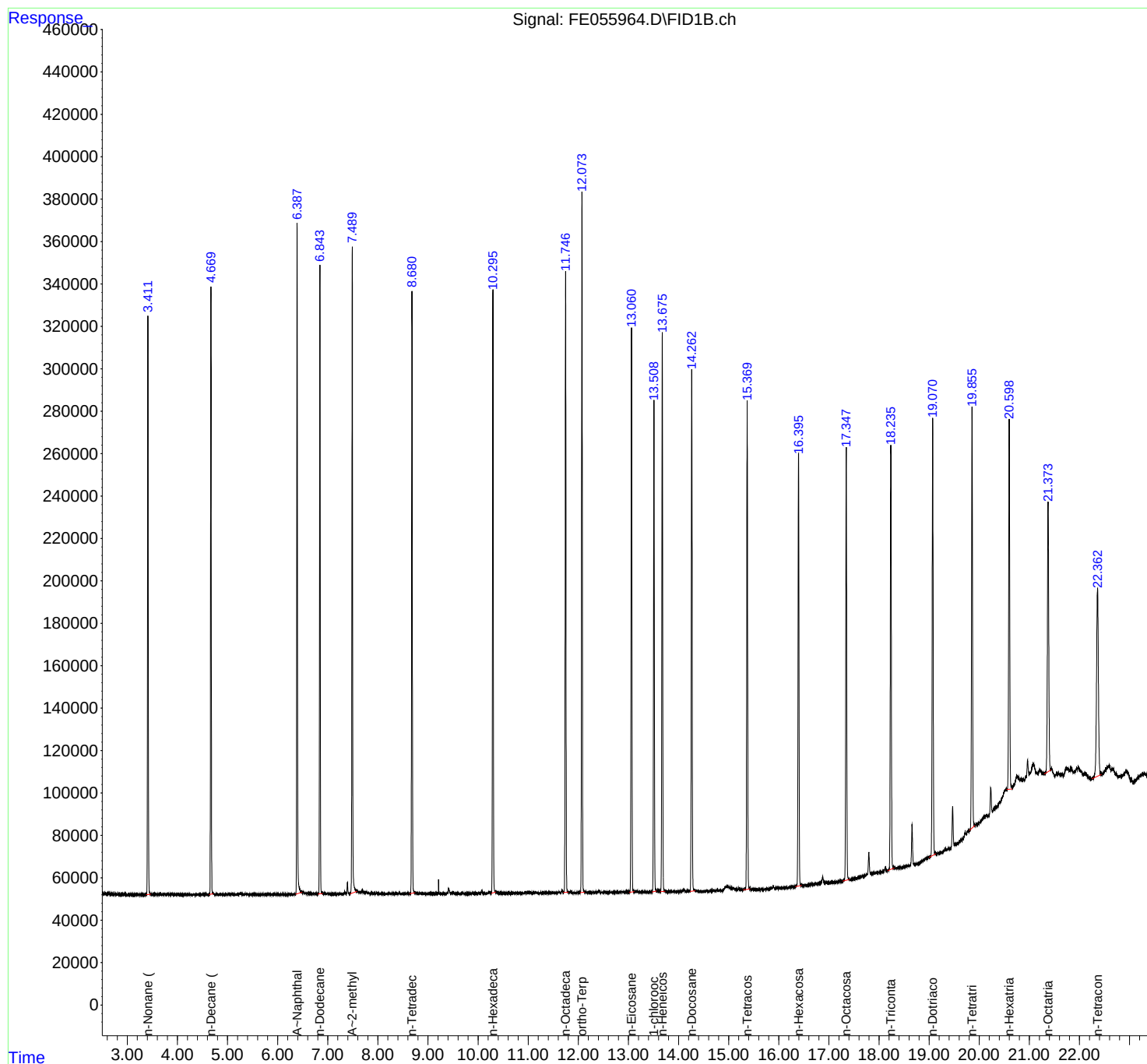
(m)=manual int.

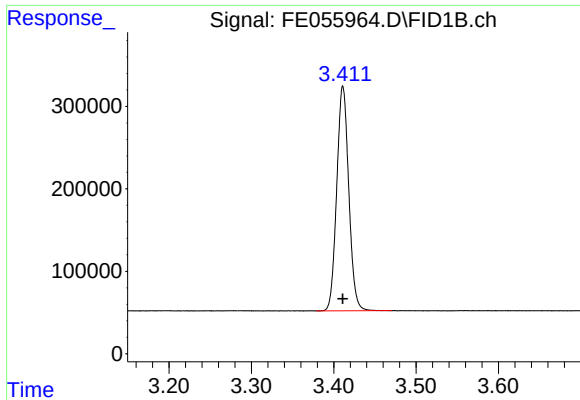
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:07
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e
Quant Time: Sep 24 11:01:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 11:00:43 2025
Response via : Initial Calibration
Integrator: ChemStation

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

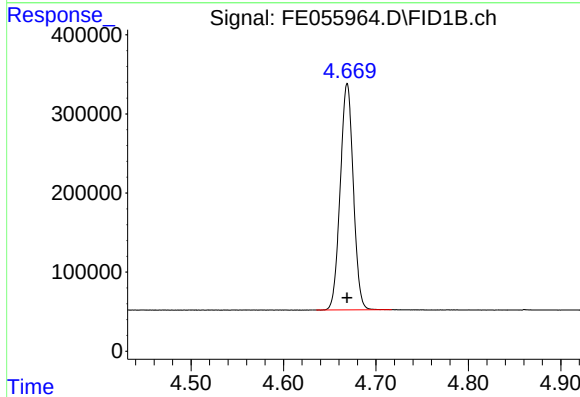




#1 n-Nonane (C9)

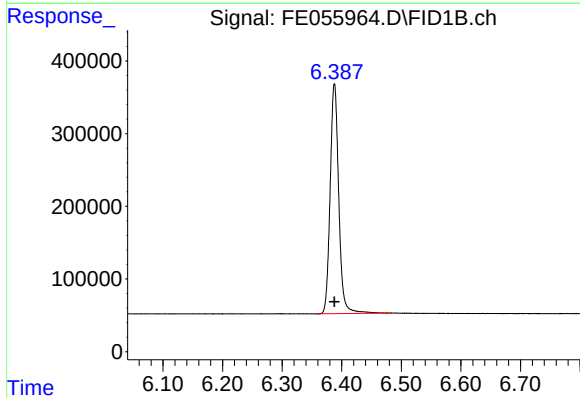
R.T.: 3.411 min
Delta R.T.: 0.000 min
Response: 2766852
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



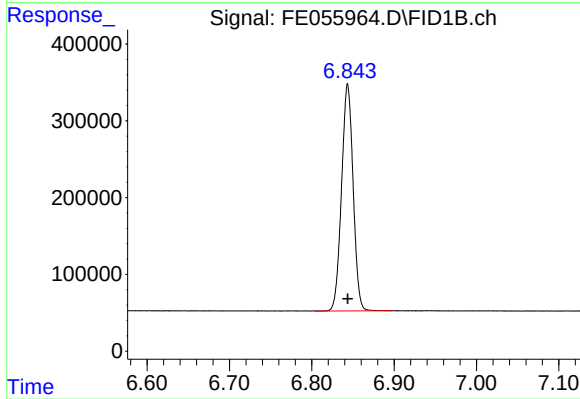
#2 n-Decane (C10)

R.T.: 4.669 min
Delta R.T.: 0.000 min
Response: 2814312
Conc: 20.00 ug/ml



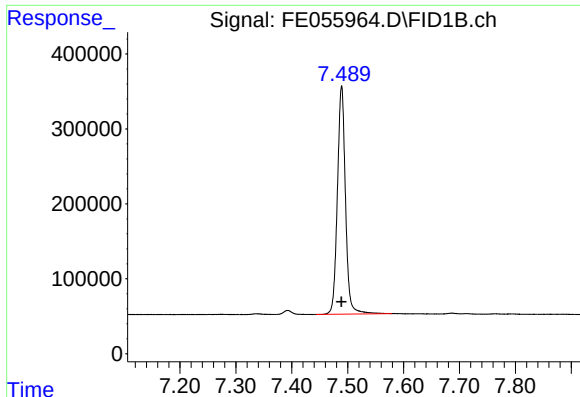
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 3171326
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

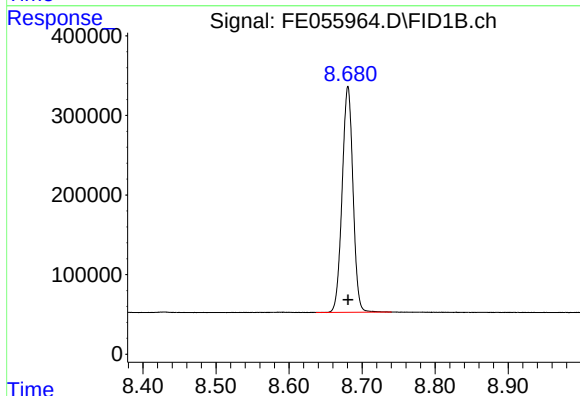
R.T.: 6.844 min
Delta R.T.: 0.000 min
Response: 2881508
Conc: 20.00 ug/ml



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

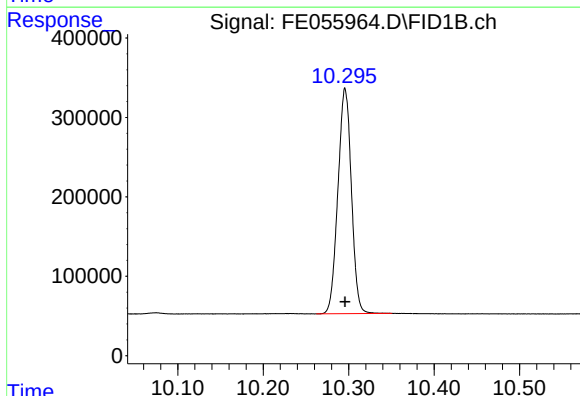
R.T.: 7.489 min
Delta R.T.: 0.000 min
Response: 3059763
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



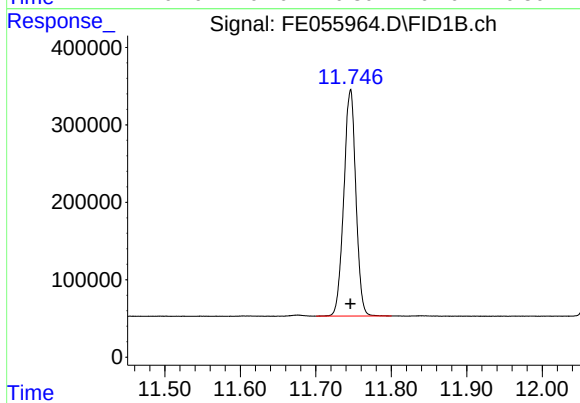
#6 n-Tetradecane (C14)

R.T.: 8.681 min
Delta R.T.: 0.000 min
Response: 2927514
Conc: 20.00 ug/ml



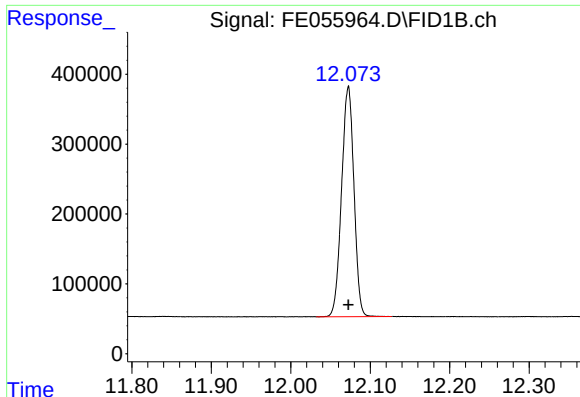
#7 n-Hexadecane (C16)

R.T.: 10.296 min
Delta R.T.: 0.000 min
Response: 3109210
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

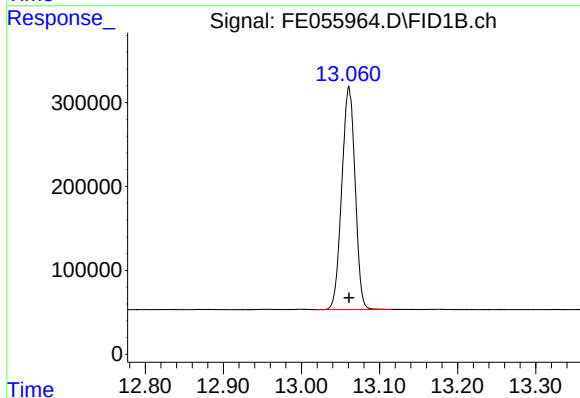
R.T.: 11.746 min
Delta R.T.: 0.000 min
Response: 3251555
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

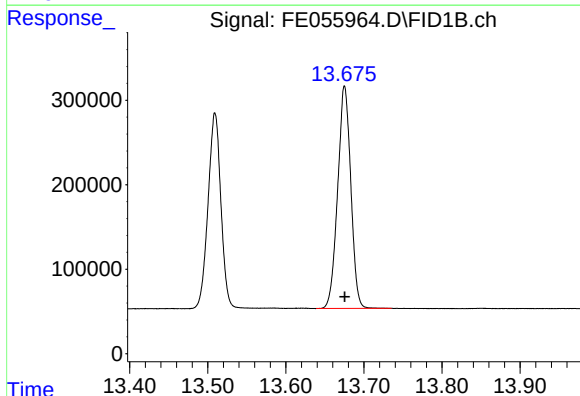
R.T.: 12.072 min
Delta R.T.: 0.000 min
Response: 3567994
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



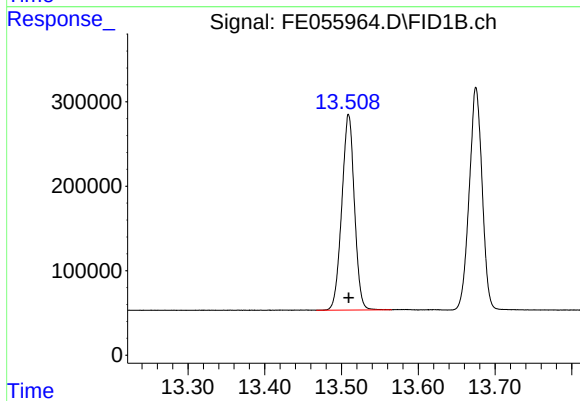
#10 n-Eicosane (C20)

R.T.: 13.061 min
Delta R.T.: 0.000 min
Response: 3151785
Conc: 20.00 ug/ml



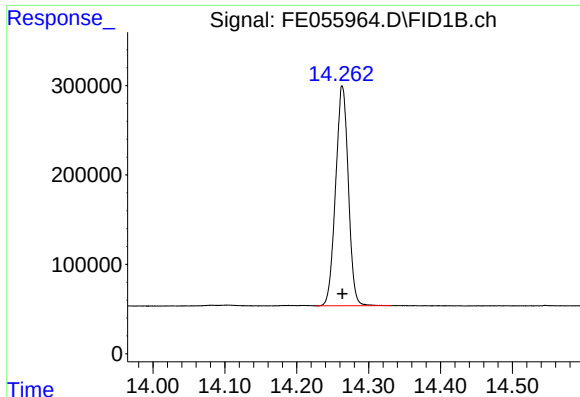
#11 n-Heneicosane (C21)

R.T.: 13.675 min
Delta R.T.: 0.000 min
Response: 3077000
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

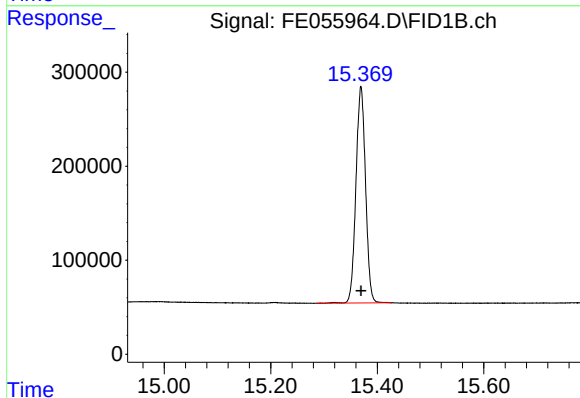
R.T.: 13.509 min
Delta R.T.: 0.000 min
Response: 2647245
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

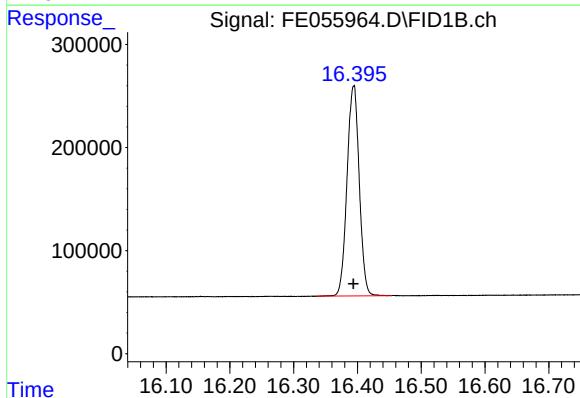
R.T.: 14.264 min
Delta R.T.: 0.000 min
Response: 3018934
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



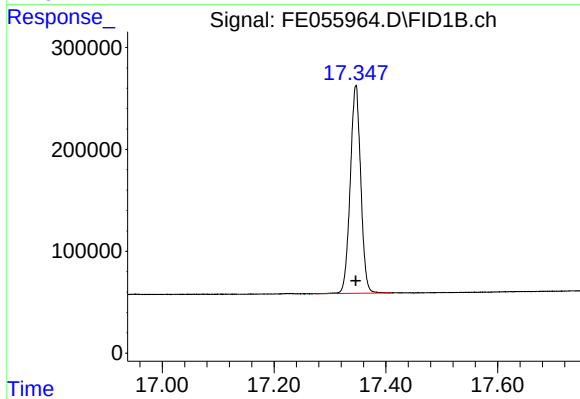
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2880999
Conc: 20.00 ug/ml



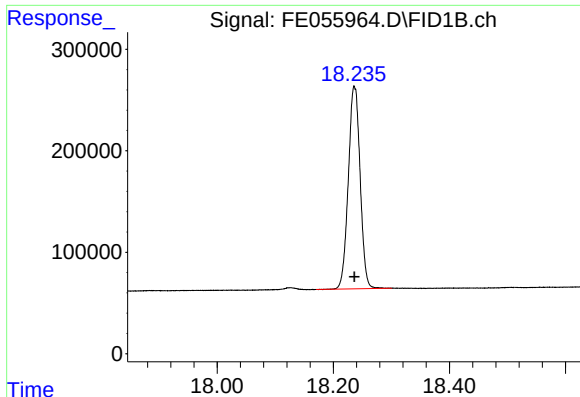
#15 n-Hexacosane (C26)

R.T.: 16.394 min
Delta R.T.: 0.000 min
Response: 2712524
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

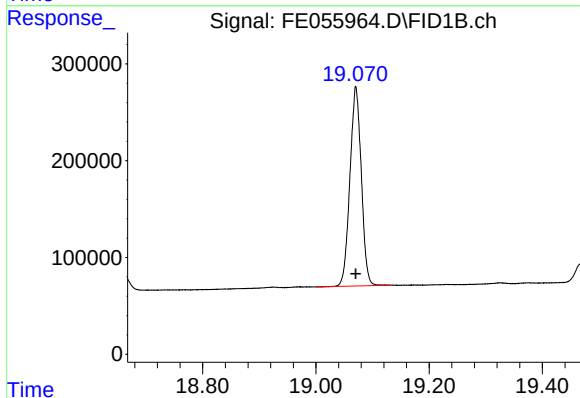
R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2656180
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

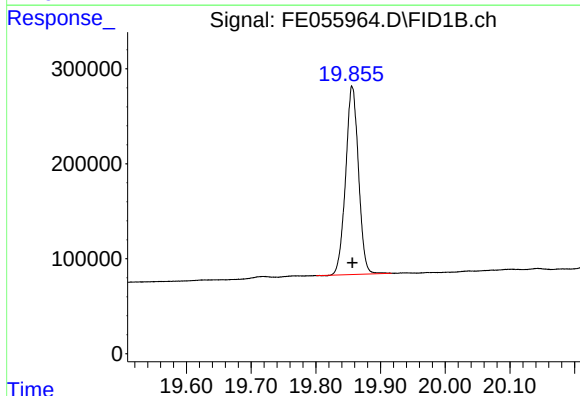
R.T.: 18.236 min
Delta R.T.: 0.000 min
Response: 2820975
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



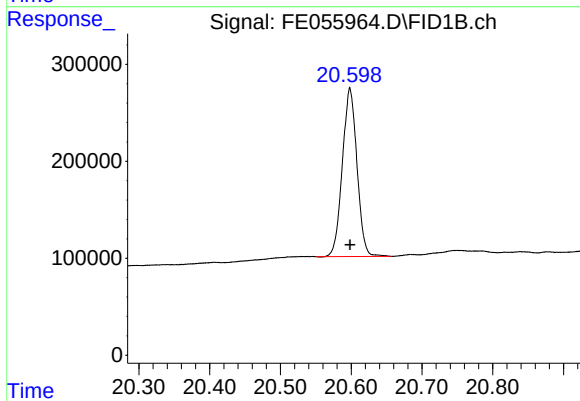
#18 n-Dotriacontane (C32)

R.T.: 19.071 min
Delta R.T.: 0.000 min
Response: 2869454
Conc: 20.00 ug/ml



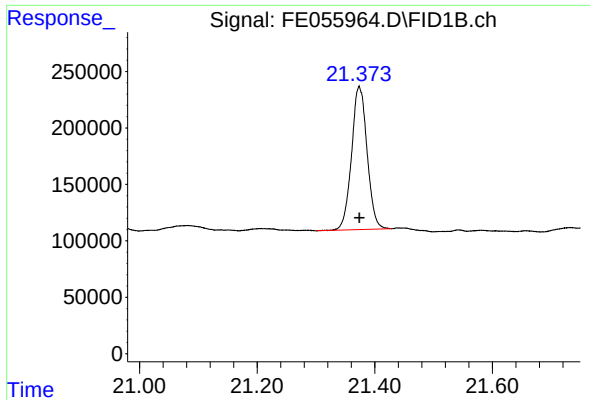
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 2735529
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

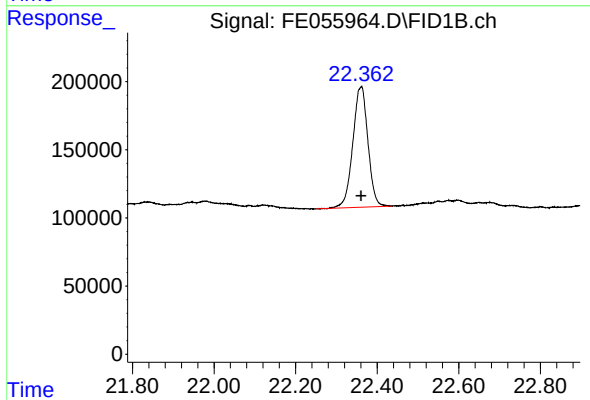
R.T.: 20.598 min
Delta R.T.: 0.000 min
Response: 2490383
Conc: 20.00 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min
Delta R.T.: 0.000 min
Response: 2320773
Conc: 20.00 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.360 min
Delta R.T.: 0.000 min
Response: 2272256
Conc: 20.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055964.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:07
Sample : 20 PPM ALIPHATIC HC STD3
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.379	3.470	BB	272925	2766852	77.55%	4.378%
2	4.669	4.635	4.717	BB	286203	2814312	78.88%	4.453%
3	6.388	6.357	6.484	BB	317204	3171326	88.88%	5.018%
4	6.844	6.805	6.897	BB	295559	2881508	80.76%	4.559%
5	7.489	7.444	7.579	BB	304084	3059763	85.76%	4.841%
6	8.681	8.637	8.740	BB	284130	2927514	82.05%	4.632%
7	10.296	10.262	10.350	BB	283977	3109210	87.14%	4.919%
8	11.746	11.700	11.800	BB	291244	3251555	91.13%	5.145%
9	12.072	12.032	12.127	BB	328303	3567994	100.00%	5.645%
10	13.061	13.019	13.115	BB	265259	3151785	88.33%	4.987%
11	13.509	13.467	13.565	BB	232459	2647245	74.19%	4.188%
12	13.675	13.639	13.735	BB	263085	3077000	86.24%	4.868%
13	14.264	14.227	14.332	BB	245238	3018934	84.61%	4.776%
14	15.369	15.285	15.427	BB	230996	2880999	80.75%	4.558%
15	16.394	16.335	16.454	BB	203871	2712524	76.02%	4.292%
16	17.346	17.275	17.410	BB	204223	2656180	74.44%	4.203%
17	18.236	18.170	18.300	BB	198304	2820975	79.06%	4.463%
18	19.071	19.000	19.134	BB	206283	2869454	80.42%	4.540%
19	19.856	19.800	19.917	BB	197030	2735529	76.67%	4.328%
20	20.598	20.550	20.657	BV	173259	2490383	69.80%	3.940%
21	21.374	21.300	21.429	BV	126907	2320773	65.04%	3.672%
22	22.360	22.250	22.435	BB	88187	2272256	63.68%	3.595%
Sum of corrected areas:							63204070	

Aliphatic EPH 092425.M Wed Sep 24 15:37:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055965.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 10:38
 Operator : YP\AJ
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
 Quant Time: Sep 24 12:53:13 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:53:03 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)	12.070	1954951	10.632 ug/ml
Spiked Amount 50.000		Recovery =	21.26%
12) S 1-chlorooctadecane (S...	13.507	1449608	10.566 ug/ml
Spiked Amount 50.000		Recovery =	21.13%
Target Compounds			
1) T n-Nonane (C9)	3.408	1363863	9.986 ug/ml
2) T n-Decane (C10)	4.667	1391033	9.997 ug/ml
3) T A~Naphthalene (C11.7)	6.387	1598546	9.989 ug/ml
4) T n-Dodecane (C12)	6.843	1436113	10.031 ug/ml
5) T A~2-methylnaphthalene...	7.488	1559116	9.998 ug/ml
6) T n-Tetradecane (C14)	8.680	1496128	10.183 ug/ml
7) T n-Hexadecane (C16)	10.294	1620157	10.289 ug/ml
8) T n-Octadecane (C18)	11.744	1759004	10.560 ug/ml
10) T n-Eicosane (C20)	13.059	1725698	10.625 ug/ml
11) T n-Heneicosane (C21)	13.674	1692180	10.652 ug/ml
13) T n-Docosane (C22)	14.262	1664317	10.666 ug/ml
14) T n-Tetracosane (C24)	15.369	1581785	10.651 ug/ml
15) T n-Hexacosane (C26)	16.393	1487319	10.683 ug/ml
16) T n-Octacosane (C28)	17.345	1455613	10.805 ug/ml
17) T n-Tricontane (C30)	18.235	1558692	11.075 ug/ml
18) T n-Dotriacontane (C32)	19.070	1561208	11.073 ug/ml
19) T n-Tetratriacontane (C34)	19.856	1478766	10.935 ug/ml
20) T n-Hexatriacontane (C36)	20.597	1356484	10.855 ug/ml
21) T n-Octatriacontane (C38)	21.372	1544566	12.174 ug/ml
22) T n-Tetracontane (C40)	22.359	1260670	10.882 ug/ml

(f)=RT Delta > 1/2 Window

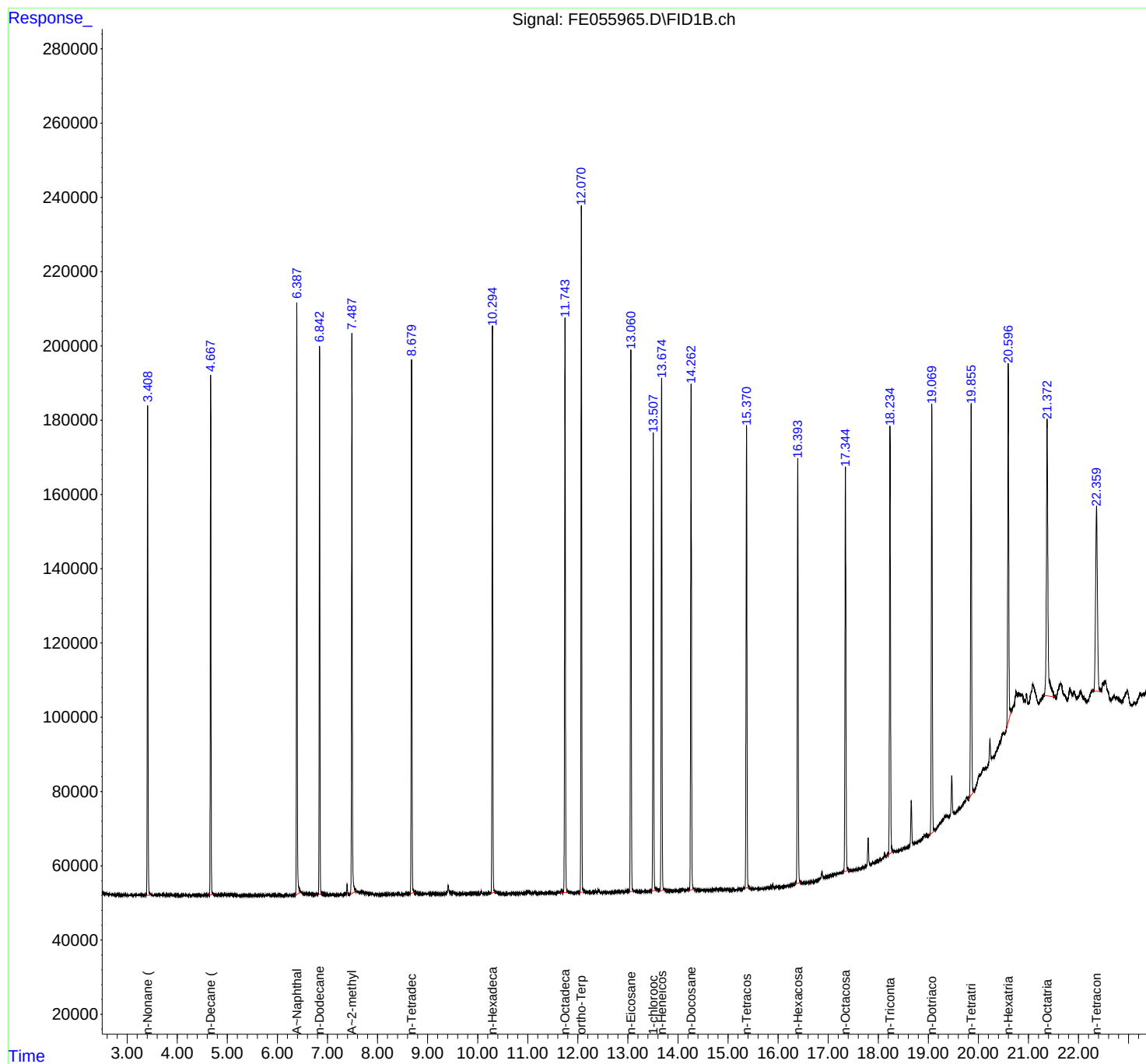
(m)=manual int.

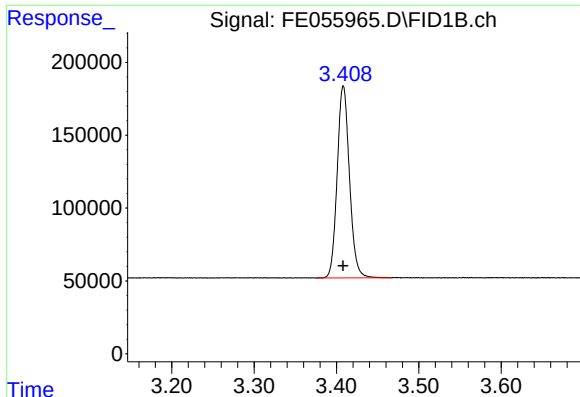
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055965.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 10:38
Operator : YP\AJ
Sample : 10 PPM ALIPHATIC HC STD4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e
Quant Time: Sep 24 12:53:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:53:03 2025
Response via : Initial Calibration
Integrator: ChemStation

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

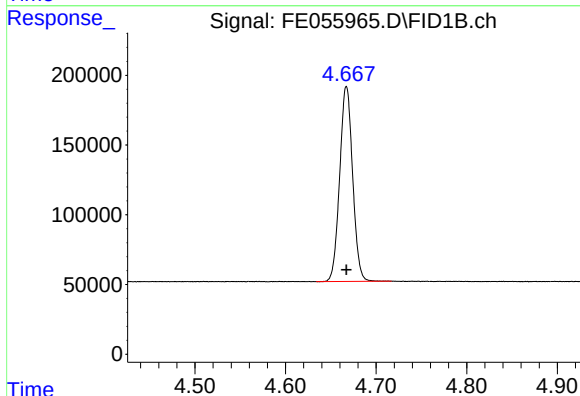




#1 n-Nonane (C9)

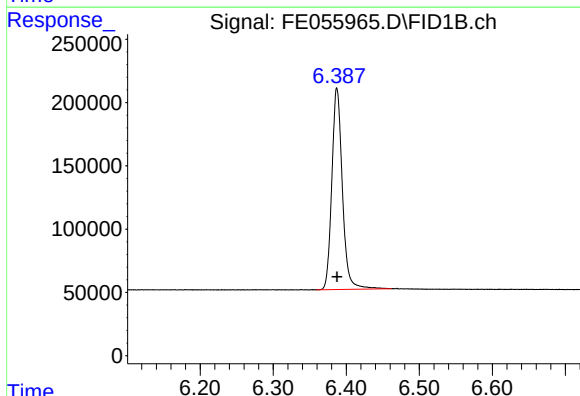
R.T.: 3.408 min
Delta R.T.: 0.000 min
Response: 1363863
Conc: 9.99 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



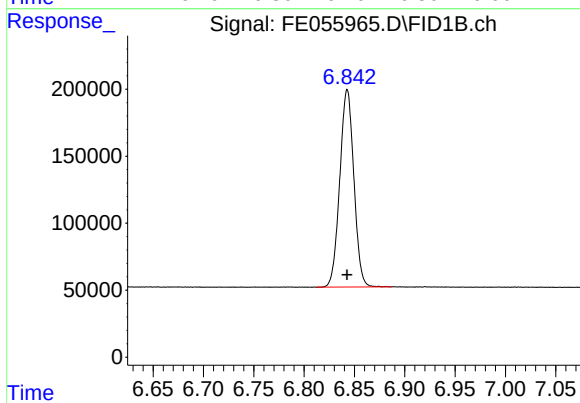
#2 n-Decane (C10)

R.T.: 4.667 min
Delta R.T.: 0.000 min
Response: 1391033
Conc: 10.00 ug/ml



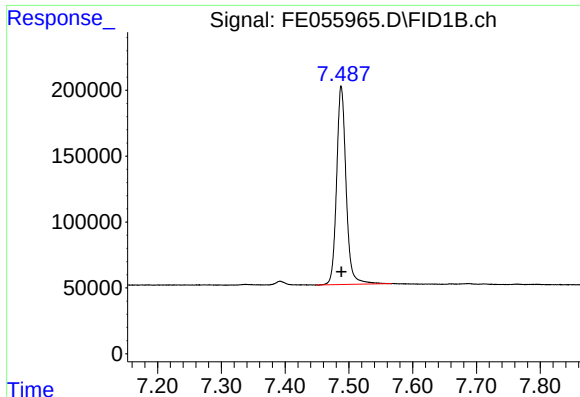
#3 A~Naphthalene (C11.7)

R.T.: 6.387 min
Delta R.T.: 0.000 min
Response: 1598546
Conc: 9.99 ug/ml



#4 n-Dodecane (C12)

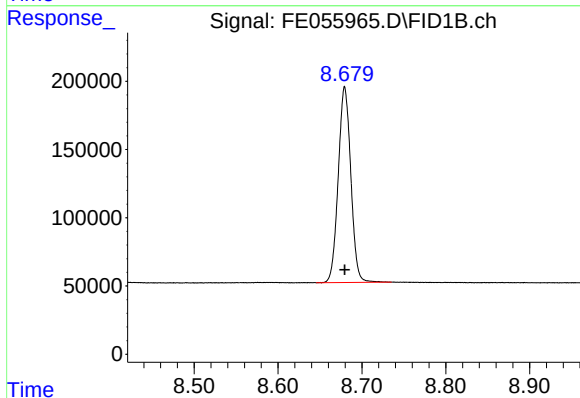
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 1436113
Conc: 10.03 ug/ml



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

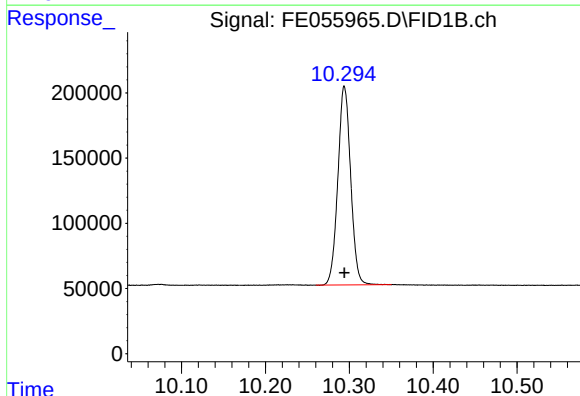
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 1559116
Conc: 10.00 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



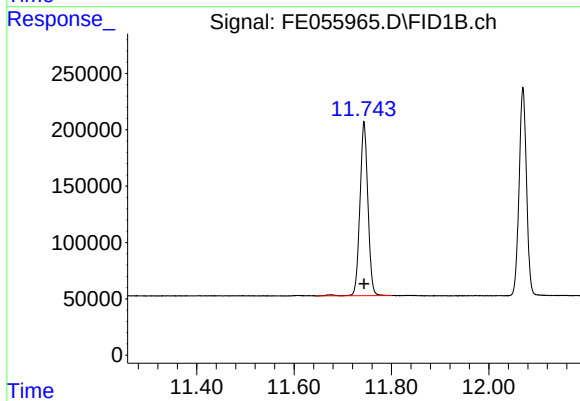
#6 n-Tetradecane (C14)

R.T.: 8.680 min
Delta R.T.: 0.000 min
Response: 1496128
Conc: 10.18 ug/ml



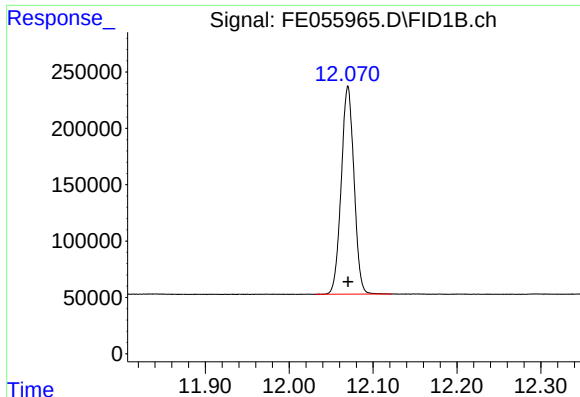
#7 n-Hexadecane (C16)

R.T.: 10.294 min
Delta R.T.: 0.000 min
Response: 1620157
Conc: 10.29 ug/ml



#8 n-Octadecane (C18)

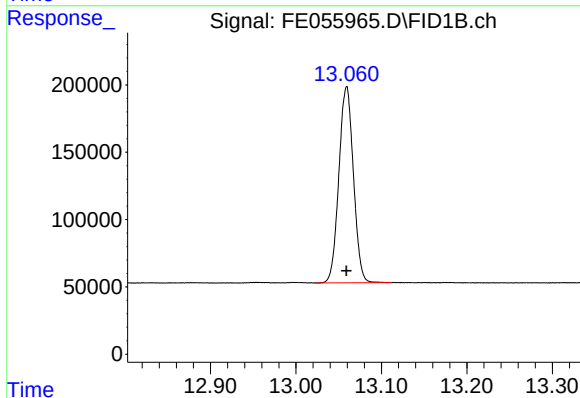
R.T.: 11.744 min
Delta R.T.: 0.000 min
Response: 1759004
Conc: 10.56 ug/ml



#9 ortho-Terphenyl (SURR)

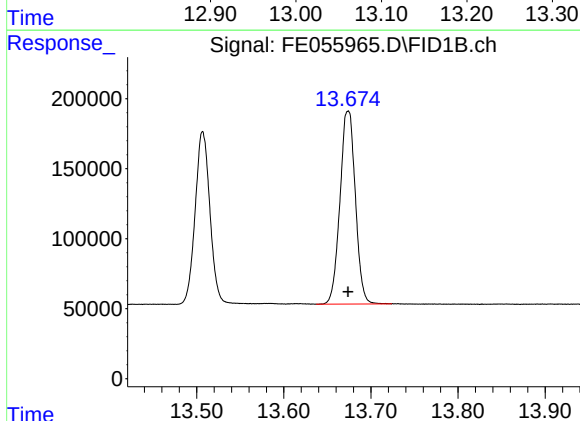
R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 1954951
Conc: 10.63 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



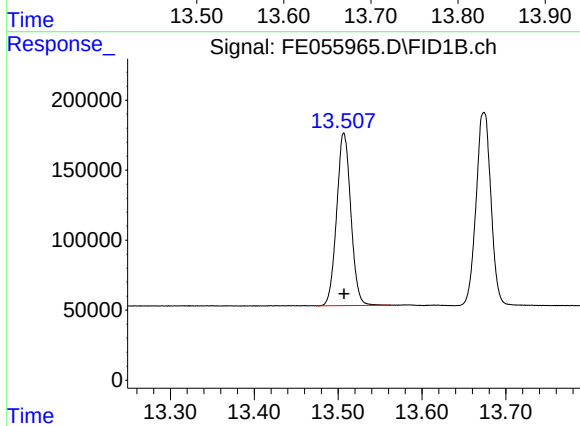
#10 n-Eicosane (C20)

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 1725698
Conc: 10.62 ug/ml



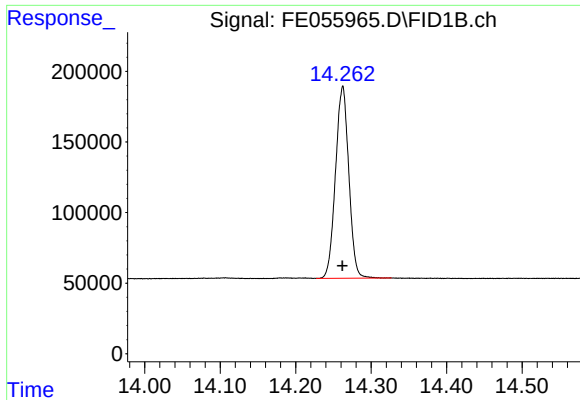
#11 n-Heneicosane (C21)

R.T.: 13.674 min
Delta R.T.: 0.000 min
Response: 1692180
Conc: 10.65 ug/ml



#12 1-chlorooctadecane (SURR)

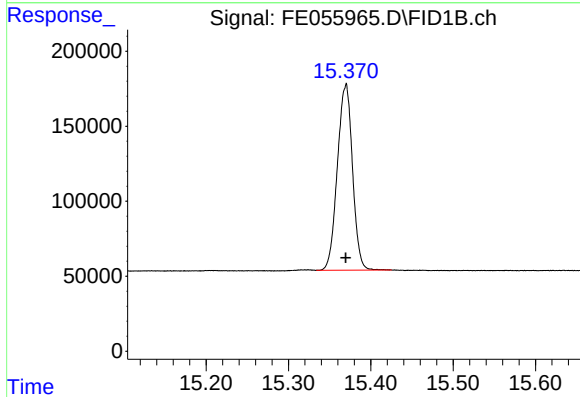
R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 1449608
Conc: 10.57 ug/ml



#13 n-Docosane (C22)

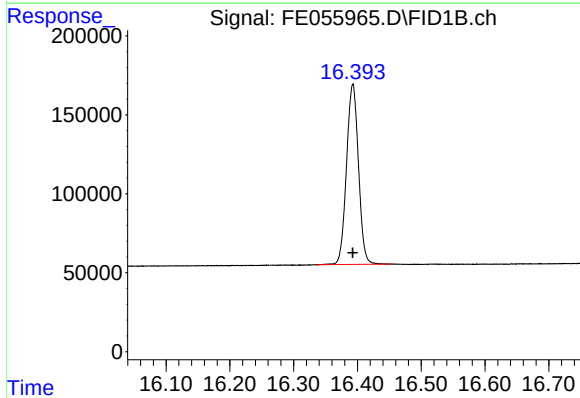
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 1664317
Conc: 10.67 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



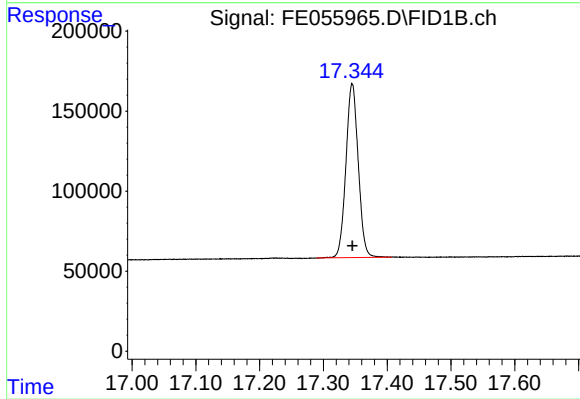
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 1581785
Conc: 10.65 ug/ml



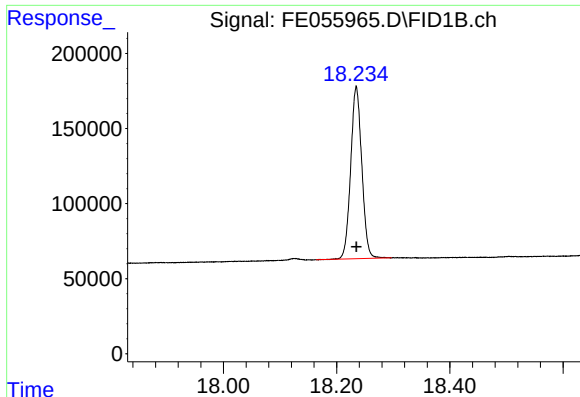
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 1487319
Conc: 10.68 ug/ml



#16 n-Octacosane (C28)

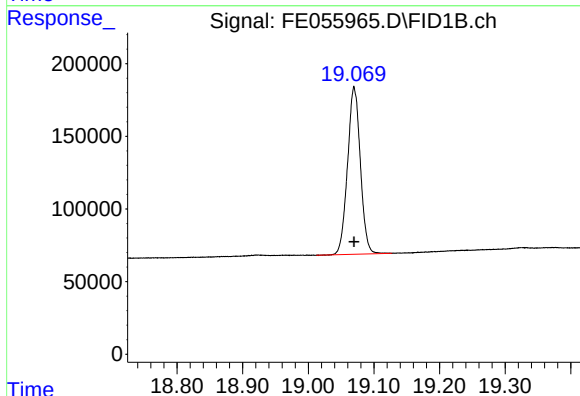
R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 1455613
Conc: 10.80 ug/ml



#17 n-Tricontane (C30)

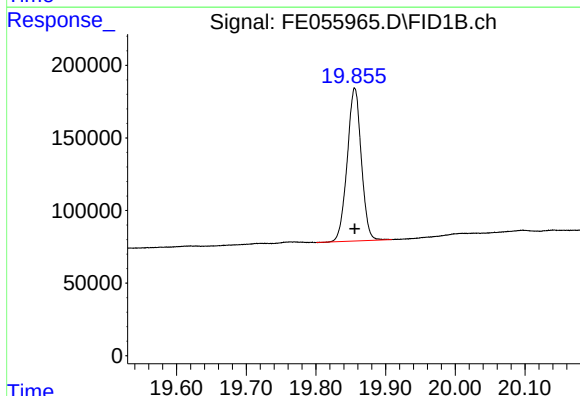
R.T.: 18.235 min
Delta R.T.: 0.000 min
Response: 1558692
Conc: 11.08 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



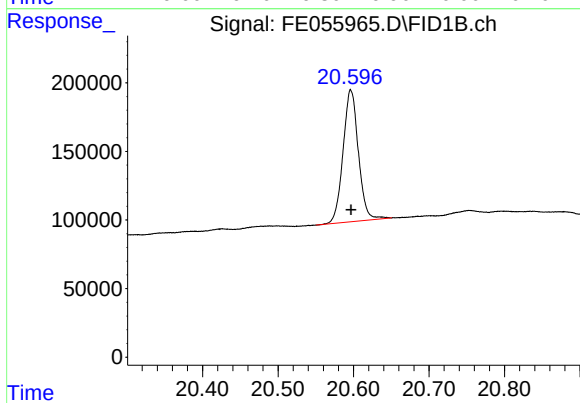
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 1561208
Conc: 11.07 ug/ml



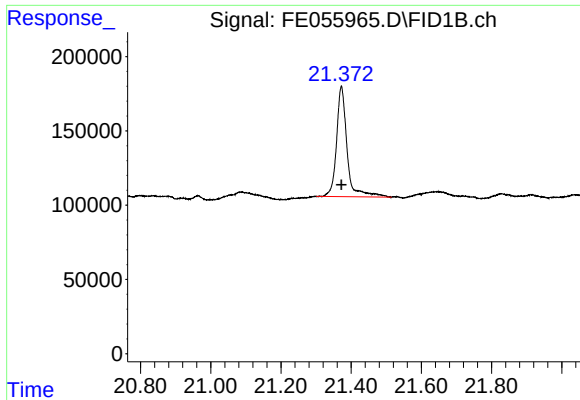
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min
Delta R.T.: 0.000 min
Response: 1478766
Conc: 10.93 ug/ml



#20 n-Hexatriacontane (C36)

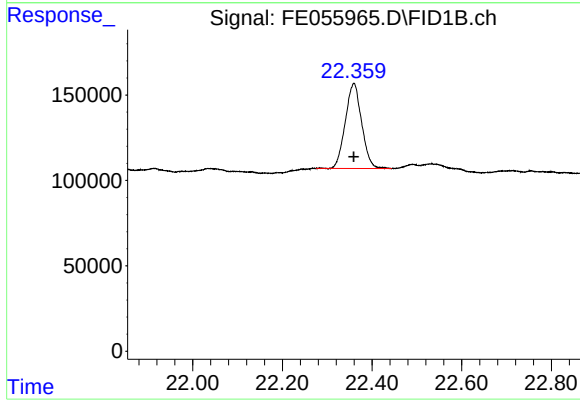
R.T.: 20.597 min
Delta R.T.: 0.000 min
Response: 1356484
Conc: 10.85 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min
Delta R.T.: 0.000 min
Response: 1544566
Conc: 12.17 ug/ml

Instrument :
FID_E
ClientSampleId :
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.359 min
Delta R.T.: 0.000 min
Response: 1260670
Conc: 10.88 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055965.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 10:38
 Sample : 10 PPM ALIPHATIC HC STD4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.408	3.375	3.467	BB	131891	1363863	69.76%	4.012%
2	4.667	4.634	4.717	BB	140046	1391033	71.15%	4.092%
3	6.387	6.359	6.462	BB	159227	1598546	81.77%	4.702%
4	6.843	6.812	6.887	BB	147153	1436113	73.46%	4.224%
5	7.488	7.449	7.567	BB	149955	1559116	79.75%	4.586%
6	8.680	8.645	8.735	BB	142760	1496128	76.53%	4.401%
7	10.294	10.260	10.350	BB	152463	1620157	82.87%	4.766%
8	11.744	11.645	11.800	BB	154452	1759004	89.98%	5.174%
9	12.070	12.032	12.122	BB	185078	1954951	100.00%	5.751%
10	13.059	13.024	13.112	BB	145649	1725698	88.27%	5.076%
11	13.507	13.474	13.564	BB	123157	1449608	74.15%	4.264%
12	13.674	13.637	13.724	BB	137839	1692180	86.56%	4.978%
13	14.262	14.227	14.327	BB	136020	1664317	85.13%	4.896%
14	15.369	15.334	15.425	BB	122593	1581785	80.91%	4.653%
15	16.393	16.335	16.454	BB	114164	1487319	76.08%	4.375%
16	17.345	17.289	17.407	BB	108605	1455613	74.46%	4.282%
17	18.235	18.164	18.297	BB	114916	1558692	79.73%	4.585%
18	19.070	19.012	19.127	BB	114664	1561208	79.86%	4.592%
19	19.856	19.800	19.909	BB	105560	1478766	75.64%	4.350%
20	20.597	20.550	20.650	BB	95575	1356484	69.39%	3.990%
21	21.372	21.300	21.515	BB	74470	1544566	79.01%	4.543%
22	22.359	22.275	22.444	BB	49805	1260670	64.49%	3.708%
Sum of corrected areas:							33995817	

Aliphatic EPH 092425.M Wed Sep 24 15:37:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055966.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 11:08
 Operator : YP\AJ
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
 Quant Time: Sep 24 12:55:06 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:54:57 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)	12.070	1013713	5.402 ug/ml
Spiked Amount 50.000		Recovery =	10.80%
12) S 1-chlorooctadecane (S...	13.507	745262	5.340 ug/ml
Spiked Amount 50.000		Recovery =	10.68%
Target Compounds			
1) T n-Nonane (C9)	3.408	693246	5.060 ug/ml
2) T n-Decane (C10)	4.667	706292	5.061 ug/ml
3) T A~Naphthalene (C11.7)	6.388	790843	4.953 ug/ml
4) T n-Dodecane (C12)	6.843	724977	5.051 ug/ml
5) T A~2-methylnaphthalene...	7.489	768994	4.945 ug/ml
6) T n-Tetradecane (C14)	8.679	757520	5.124 ug/ml
7) T n-Hexadecane (C16)	10.294	823386	5.182 ug/ml
8) T n-Octadecane (C18)	11.744	903131	5.332 ug/ml
10) T n-Eicosane (C20)	13.059	895641	5.403 ug/ml
11) T n-Heneicosane (C21)	13.673	885060	5.447 ug/ml
13) T n-Docosane (C22)	14.262	874093	5.470 ug/ml
14) T n-Tetracosane (C24)	15.369	839256	5.508 ug/ml
15) T n-Hexacosane (C26)	16.393	781387	5.478 ug/ml
16) T n-Octacosane (C28)	17.345	788239	5.658 ug/ml
17) T n-Tricontane (C30)	18.235	889830	6.005 ug/ml
18) T n-Dotriacontane (C32)	19.070	910224	6.101 ug/ml
19) T n-Tetratriacontane (C34)	19.855	831525	5.879 ug/ml
20) T n-Hexatriacontane (C36)	20.596	709931	5.530 ug/ml
21) T n-Octatriacontane (C38)	21.372	745994	5.680 ug/ml
22) T n-Tetracontane (C40)	22.356	657258	5.525 ug/ml

(f)=RT Delta > 1/2 Window

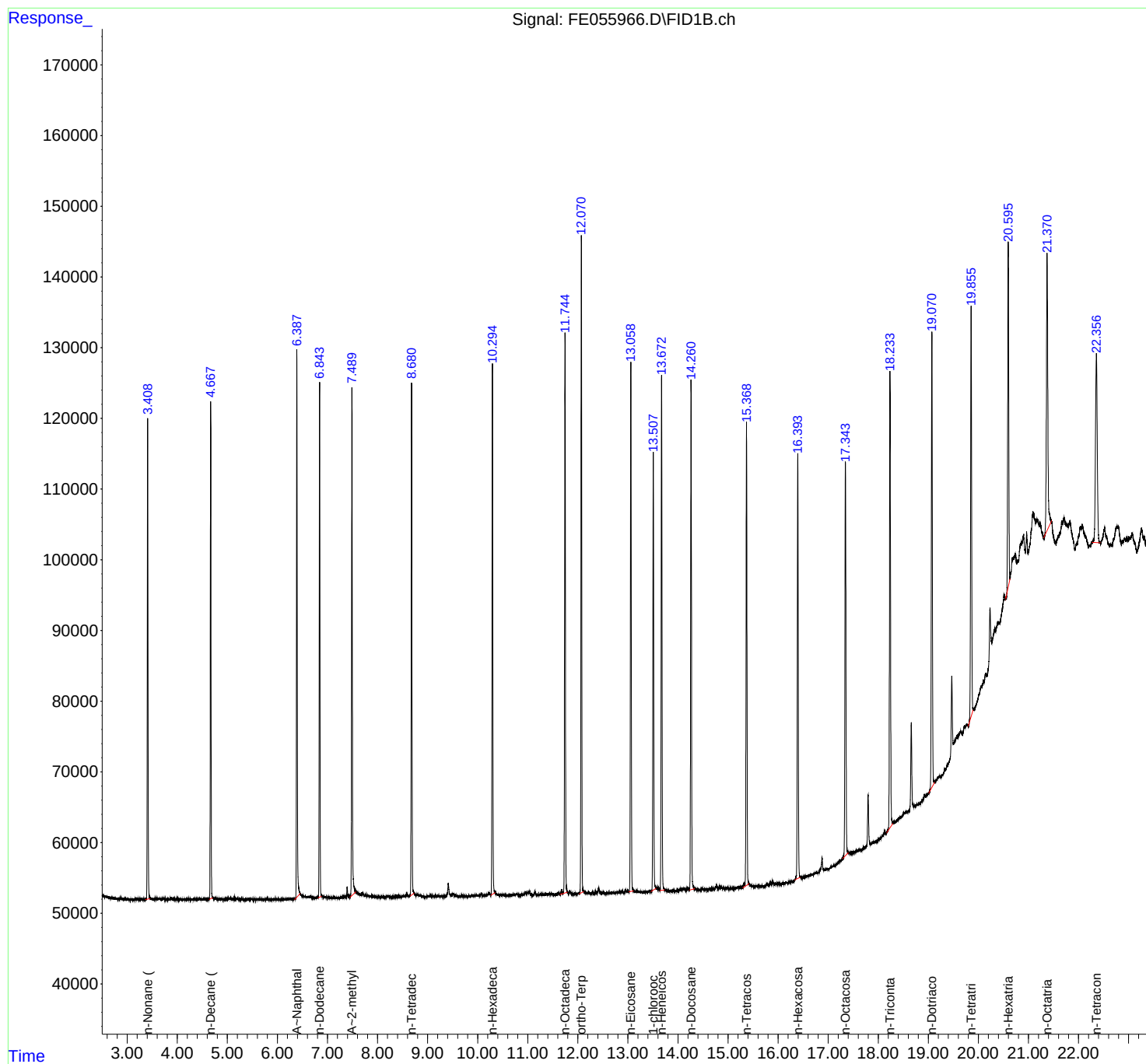
(m)=manual int.

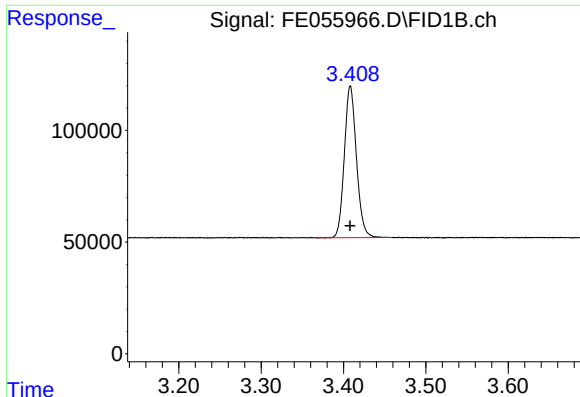
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055966.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:08
Operator : YP\AJ
Sample : 5 PPM ALIPHATIC HC STD5
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e
Quant Time: Sep 24 12:55:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:54:57 2025
Response via : Initial Calibration
Integrator: ChemStation

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

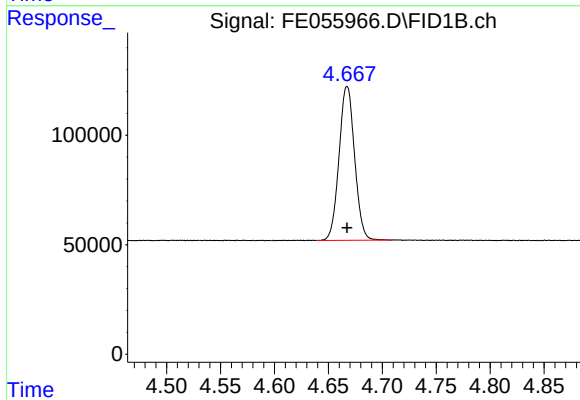




#1 n-Nonane (C9)

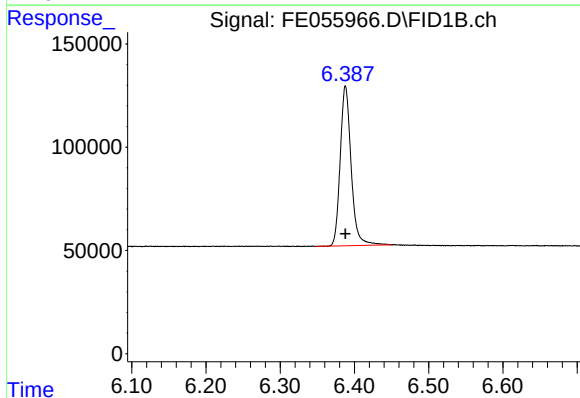
R.T.: 3.408 min
Delta R.T.: 0.000 min
Response: 693246
Conc: 5.06 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



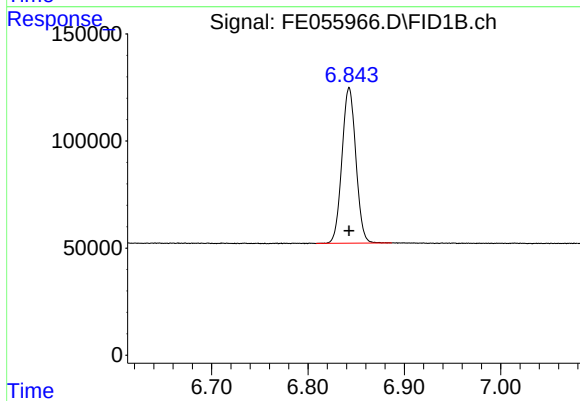
#2 n-Decane (C10)

R.T.: 4.667 min
Delta R.T.: 0.000 min
Response: 706292
Conc: 5.06 ug/ml



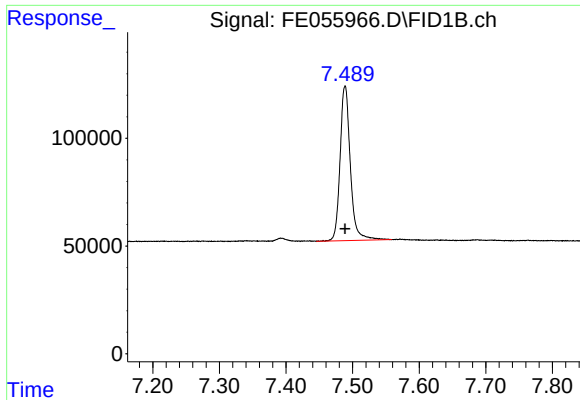
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 790843
Conc: 4.95 ug/ml



#4 n-Dodecane (C12)

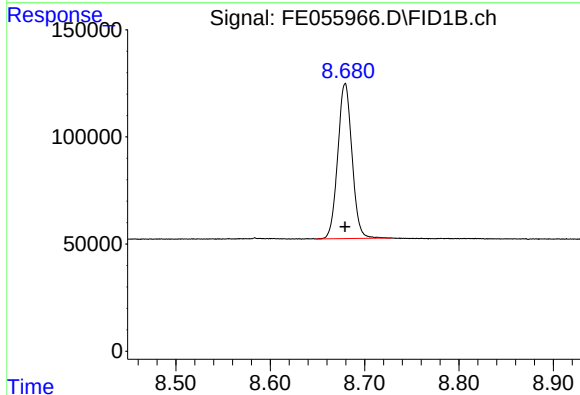
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 724977
Conc: 5.05 ug/ml



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

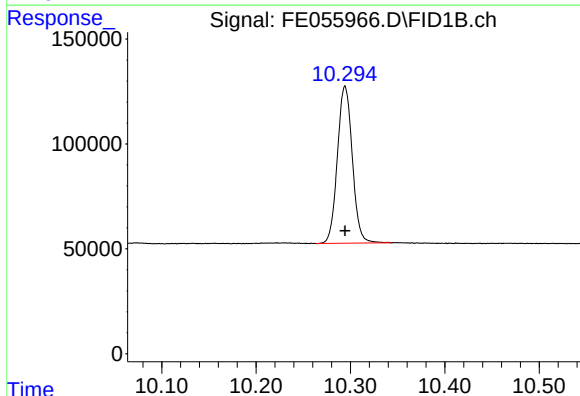
R.T.: 7.489 min
Delta R.T.: 0.000 min
Response: 768994
Conc: 4.94 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



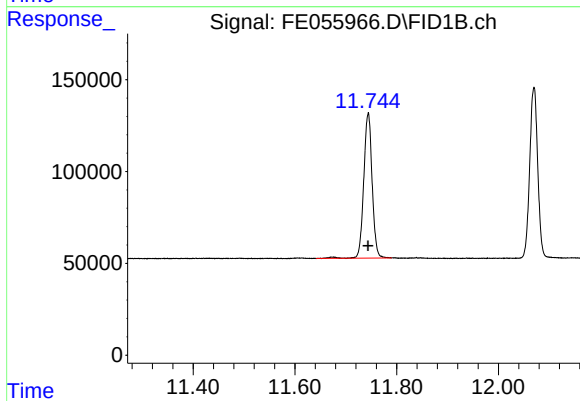
#6 n-Tetradecane (C14)

R.T.: 8.679 min
Delta R.T.: 0.000 min
Response: 757520
Conc: 5.12 ug/ml



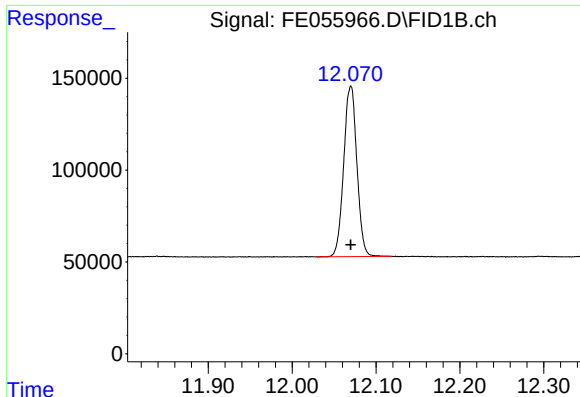
#7 n-Hexadecane (C16)

R.T.: 10.294 min
Delta R.T.: 0.000 min
Response: 823386
Conc: 5.18 ug/ml



#8 n-Octadecane (C18)

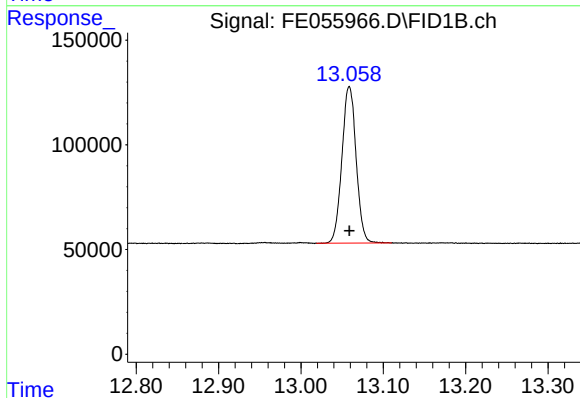
R.T.: 11.744 min
Delta R.T.: 0.000 min
Response: 903131
Conc: 5.33 ug/ml



#9 ortho-Terphenyl (SURR)

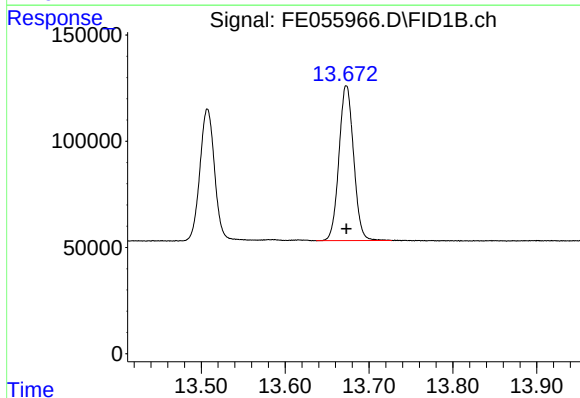
R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 1013713
Conc: 5.40 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



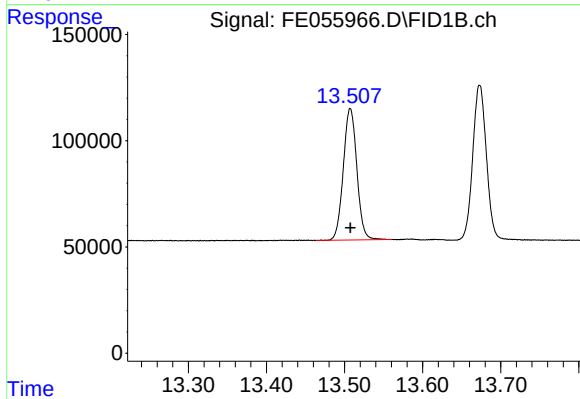
#10 n-Eicosane (C20)

R.T.: 13.059 min
Delta R.T.: 0.000 min
Response: 895641
Conc: 5.40 ug/ml



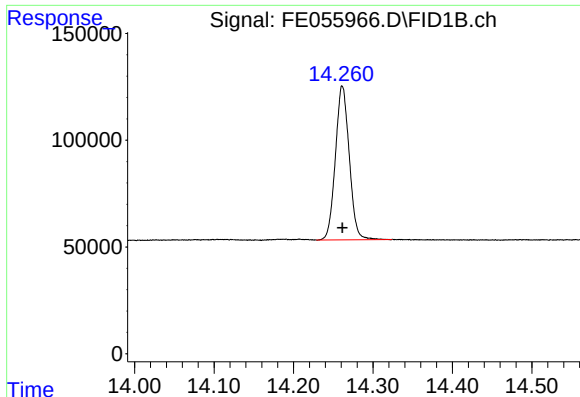
#11 n-Heneicosane (C21)

R.T.: 13.673 min
Delta R.T.: 0.000 min
Response: 885060
Conc: 5.45 ug/ml



#12 1-chlorooctadecane (SURR)

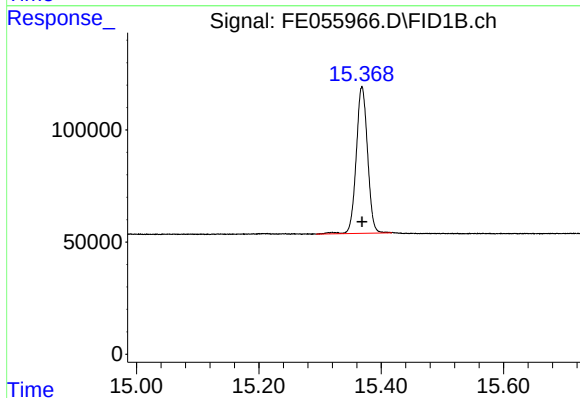
R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 745262
Conc: 5.34 ug/ml



#13 n-Docosane (C22)

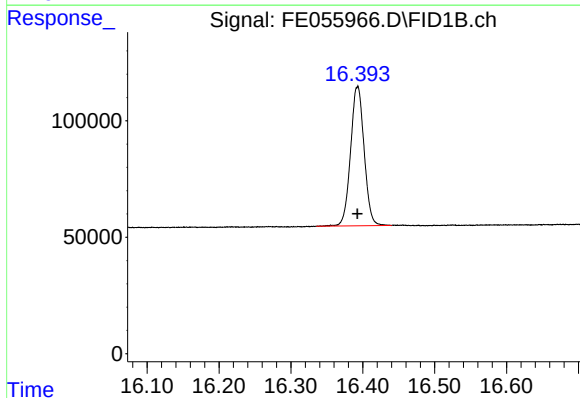
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 874093
Conc: 5.47 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



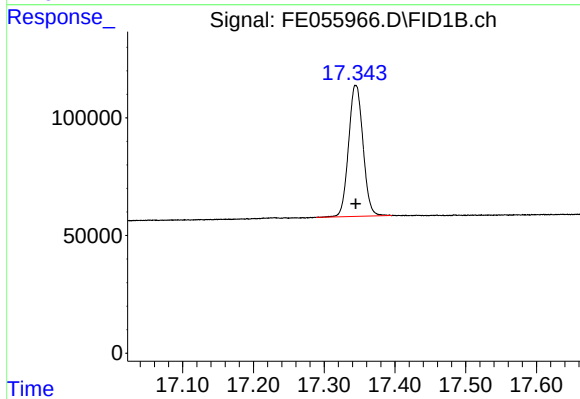
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 839256
Conc: 5.51 ug/ml



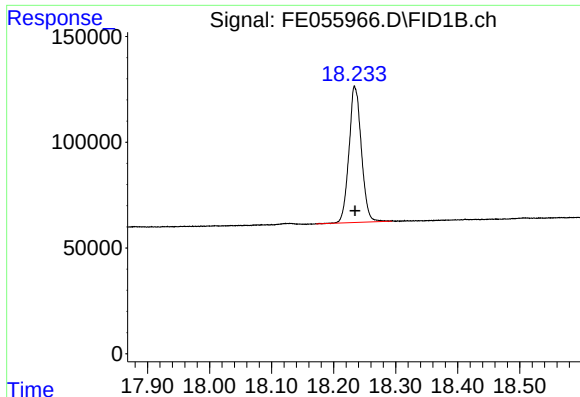
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 781387
Conc: 5.48 ug/ml



#16 n-Octacosane (C28)

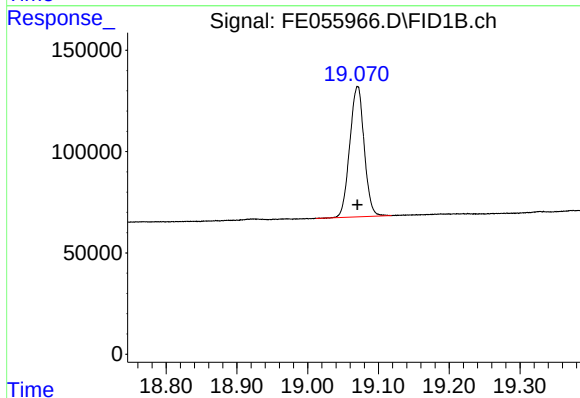
R.T.: 17.345 min
Delta R.T.: 0.000 min
Response: 788239
Conc: 5.66 ug/ml



#17 n-Tricontane (C30)

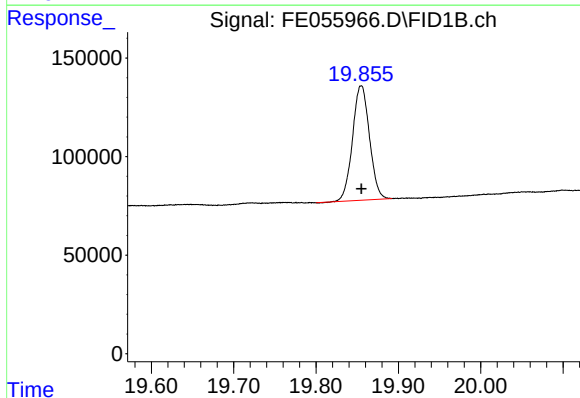
R.T.: 18.235 min
Delta R.T.: 0.000 min
Response: 889830
Conc: 6.01 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



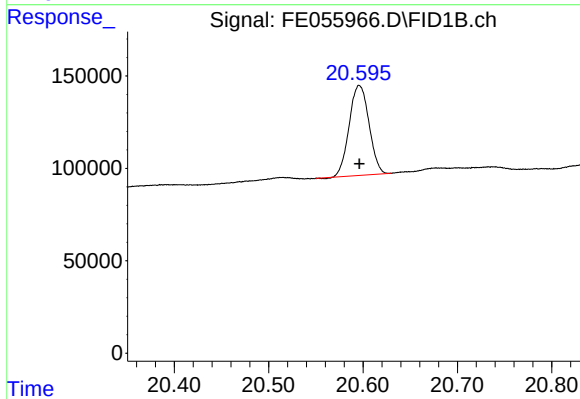
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 910224
Conc: 6.10 ug/ml



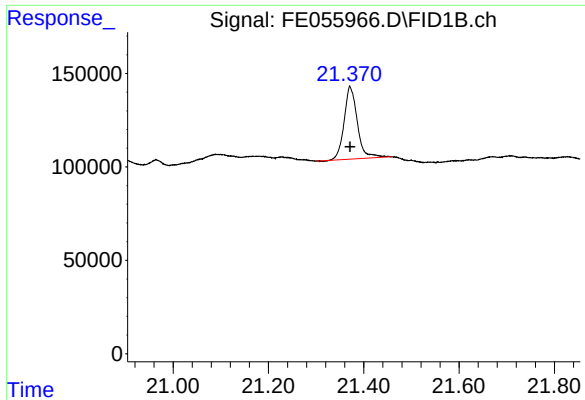
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 831525
Conc: 5.88 ug/ml



#20 n-Hexatriacontane (C36)

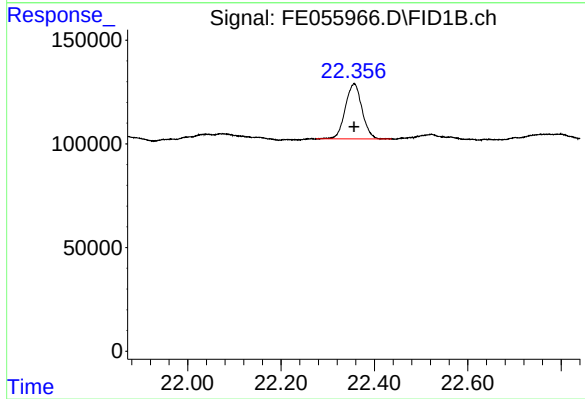
R.T.: 20.596 min
Delta R.T.: 0.000 min
Response: 709931
Conc: 5.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min
Delta R.T.: 0.000 min
Response: 745994
Conc: 5.68 ug/ml

Instrument :
FID_E
ClientSampleId :
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 657258
Conc: 5.52 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055966.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 11:08
 Sample : 5 PPM ALIPHATIC HC STD5
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.408	3.367	3.459	BB	67953	693246	68.39%	3.909%
2	4.667	4.639	4.709	BB	70375	706292	69.67%	3.982%
3	6.388	6.349	6.450	BB	77149	790843	78.01%	4.459%
4	6.843	6.809	6.887	BB	72831	724977	71.52%	4.088%
5	7.489	7.445	7.559	BB	71709	768994	75.86%	4.336%
6	8.679	8.649	8.729	BB	72794	757520	74.73%	4.271%
7	10.294	10.264	10.344	BB	74847	823386	81.22%	4.643%
8	11.744	11.642	11.790	BB	78656	903131	89.09%	5.092%
9	12.070	12.029	12.119	BB	93200	1013713	100.00%	5.716%
10	13.059	13.019	13.110	BB	74727	895641	88.35%	5.050%
11	13.507	13.464	13.560	BB	62028	745262	73.52%	4.202%
12	13.673	13.637	13.727	BB	72909	885060	87.31%	4.990%
13	14.262	14.229	14.324	BB	71830	874093	86.23%	4.928%
14	15.369	15.294	15.417	BB	65352	839256	82.79%	4.732%
15	16.393	16.335	16.440	BB	60152	781387	77.08%	4.406%
16	17.345	17.289	17.395	BB	55612	788239	77.76%	4.444%
17	18.235	18.172	18.294	BB	63264	889830	87.78%	5.017%
18	19.070	19.012	19.119	BB	64493	910224	89.79%	5.132%
19	19.855	19.800	19.892	BB	58084	831525	82.03%	4.688%
20	20.596	20.550	20.630	BV	48579	709931	70.03%	4.003%
21	21.372	21.300	21.459	BB	38611	745994	73.59%	4.206%
22	22.356	22.275	22.437	BB	26685	657258	64.84%	3.706%
Sum of corrected areas:						17735802		

Aliphatic EPH 092425.M Wed Sep 24 15:38:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055967.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 11:39
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
 Quant Time: Sep 24 12:56:12 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.071	3668282	19.548 ug/ml
Spiked Amount 50.000		Recovery =	39.10%
12) S 1-chlorooctadecane (S...	13.508	2728050	19.547 ug/ml
Spiked Amount 50.000		Recovery =	39.09%
Target Compounds			
1) T n-Nonane (C9)	3.411	2817872	20.570 ug/ml
2) T n-Decane (C10)	4.668	2859346	20.488 ug/ml
3) T A~Naphthalene (C11.7)	6.388	3249421	20.352 ug/ml
4) T n-Dodecane (C12)	6.843	2929821	20.413 ug/ml
5) T A~2-methylnaphthalene...	7.488	3143650	20.214 ug/ml
6) T n-Tetradecane (C14)	8.680	2980588	20.160 ug/ml
7) T n-Hexadecane (C16)	10.295	3166204	19.925 ug/ml
8) T n-Octadecane (C18)	11.745	3336057	19.695 ug/ml
10) T n-Eicosane (C20)	13.060	3245046	19.576 ug/ml
11) T n-Heneicosane (C21)	13.674	3169164	19.504 ug/ml
13) T n-Docosane (C22)	14.262	3099587	19.398 ug/ml
14) T n-Tetracosane (C24)	15.369	2928176	19.216 ug/ml
15) T n-Hexacosane (C26)	16.393	2744599	19.243 ug/ml
16) T n-Octacosane (C28)	17.346	2675215	19.204 ug/ml
17) T n-Tricontane (C30)	18.236	2835374	19.135 ug/ml
18) T n-Dotriacontane (C32)	19.070	2865562	19.206 ug/ml
19) T n-Tetratriacontane (C34)	19.855	2719117	19.223 ug/ml
20) T n-Hexatriacontane (C36)	20.597	2416072	18.821 ug/ml
21) T n-Octatriacontane (C38)	21.374	2366982	18.021 ug/ml
22) T n-Tetracontane (C40)	22.357	2042298	17.167 ug/ml

(f)=RT Delta > 1/2 Window

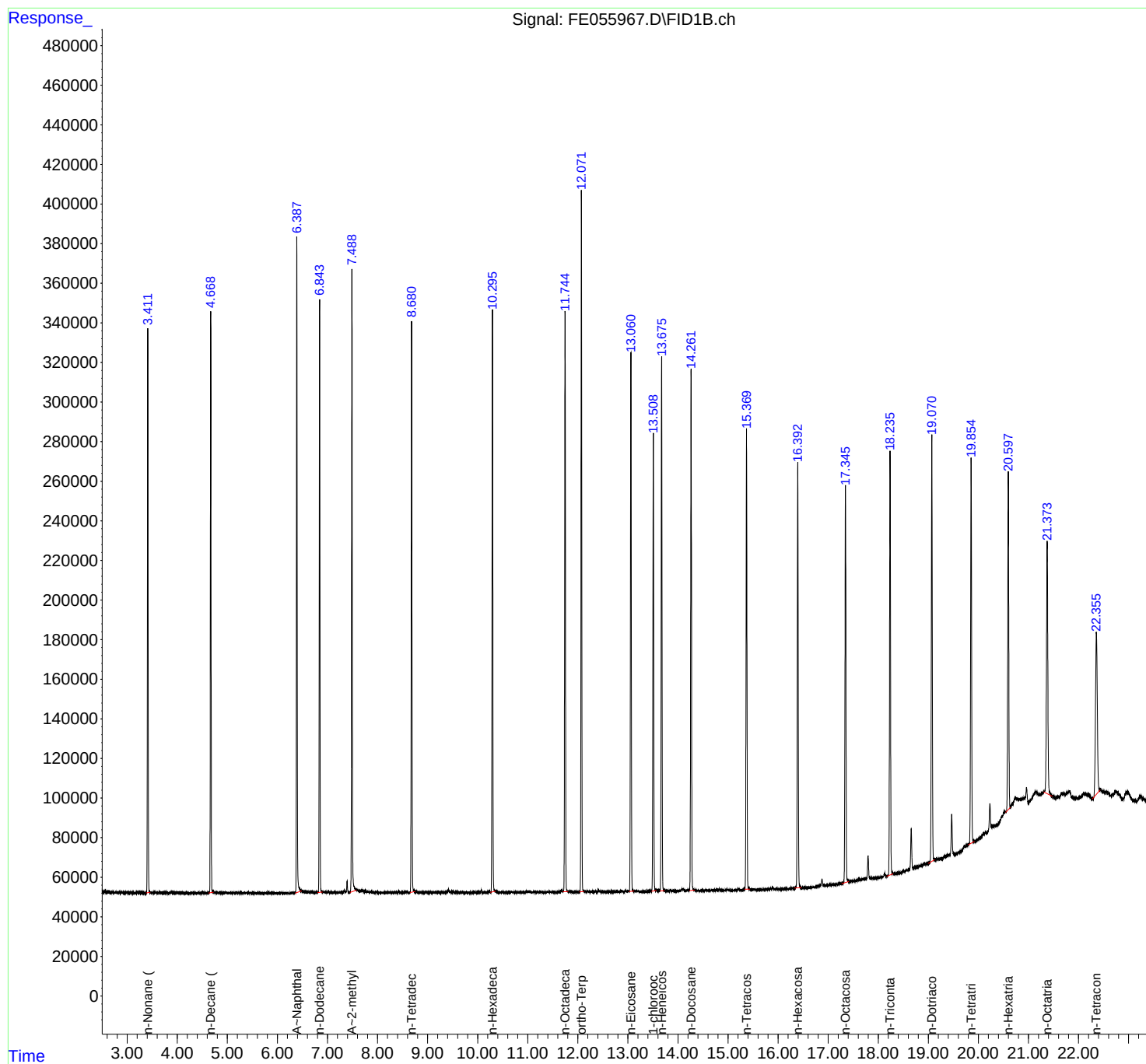
(m)=manual int.

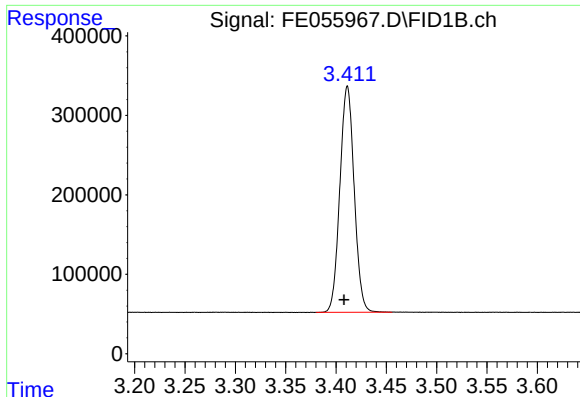
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
Data File : FE055967.D
Signal(s) : FID1B.ch
Acq On : 24 Sep 2025 11:39
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD ICV
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e
Quant Time: Sep 24 12:56:12 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 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)

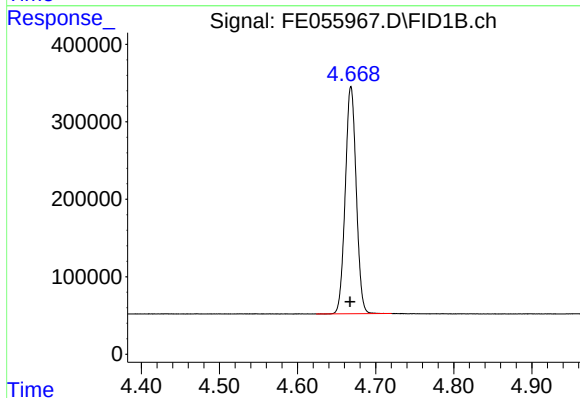
R.T.: 3.411 min
Delta R.T.: 0.003 min
Response: 2817872
Conc: 20.57 ug/ml

Instrument :

FID_E

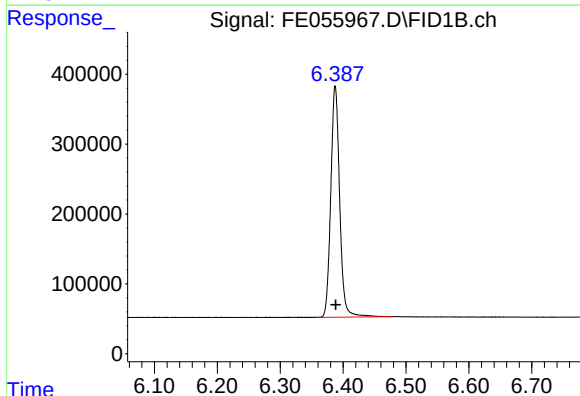
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



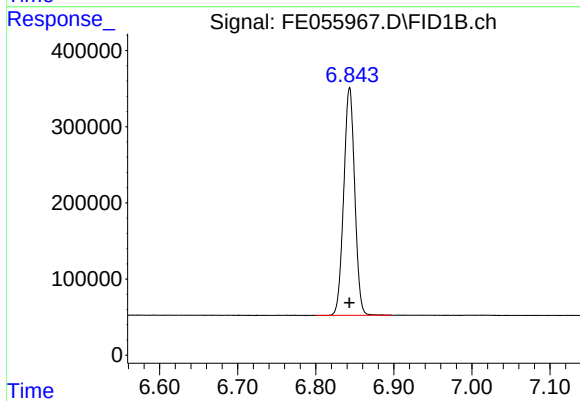
#2 n-Decane (C10)

R.T.: 4.668 min
Delta R.T.: 0.001 min
Response: 2859346
Conc: 20.49 ug/ml



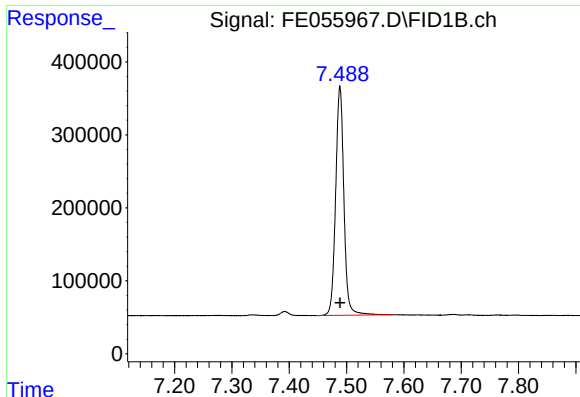
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min
Delta R.T.: 0.000 min
Response: 3249421
Conc: 20.35 ug/ml



#4 n-Dodecane (C12)

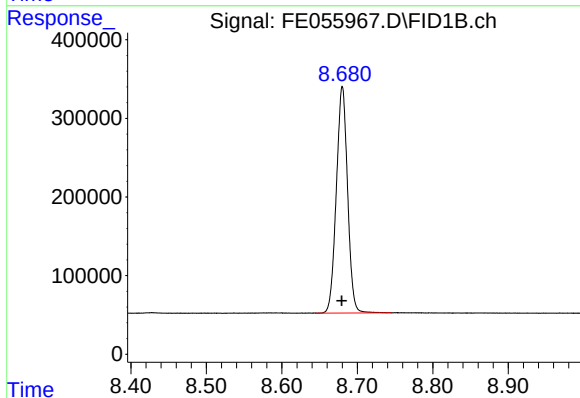
R.T.: 6.843 min
Delta R.T.: 0.000 min
Response: 2929821
Conc: 20.41 ug/ml



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

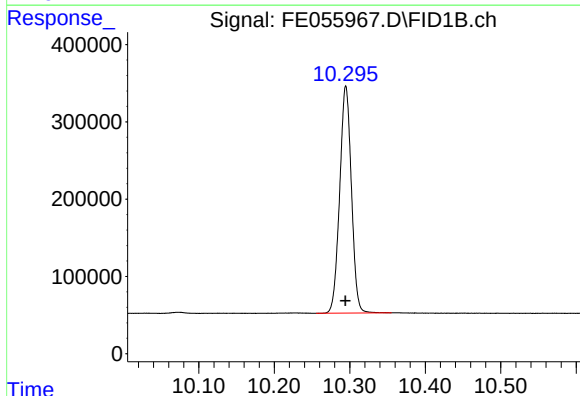
R.T.: 7.488 min
Delta R.T.: 0.000 min
Response: 3143650
Conc: 20.21 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



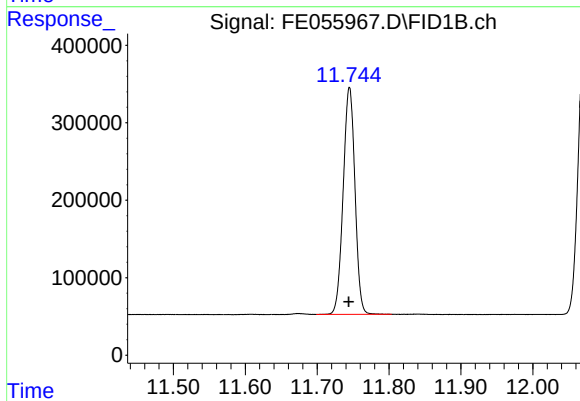
#6 n-Tetradecane (C14)

R.T.: 8.680 min
Delta R.T.: 0.000 min
Response: 2980588
Conc: 20.16 ug/ml



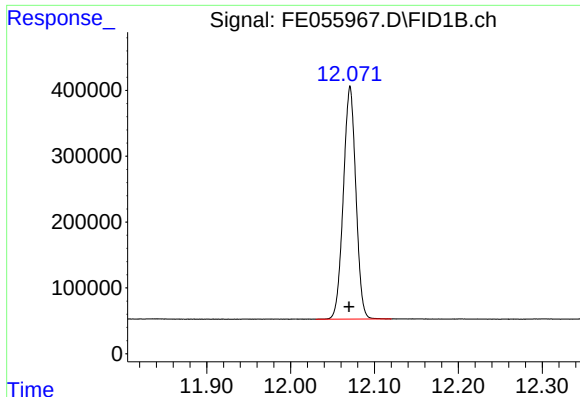
#7 n-Hexadecane (C16)

R.T.: 10.295 min
Delta R.T.: 0.000 min
Response: 3166204
Conc: 19.92 ug/ml



#8 n-Octadecane (C18)

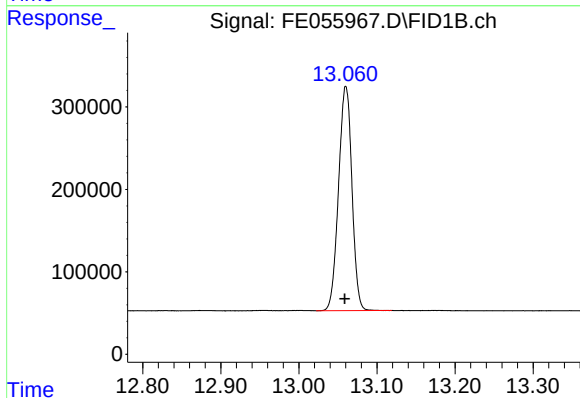
R.T.: 11.745 min
Delta R.T.: 0.000 min
Response: 3336057
Conc: 19.70 ug/ml



#9 ortho-Terphenyl (SURR)

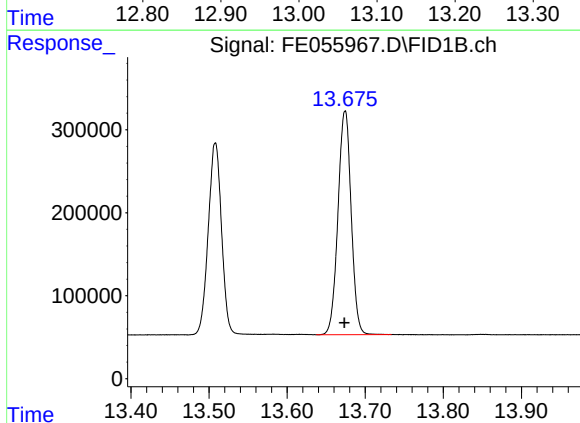
R.T.: 12.071 min
Delta R.T.: 0.001 min
Response: 3668282
Conc: 19.55 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



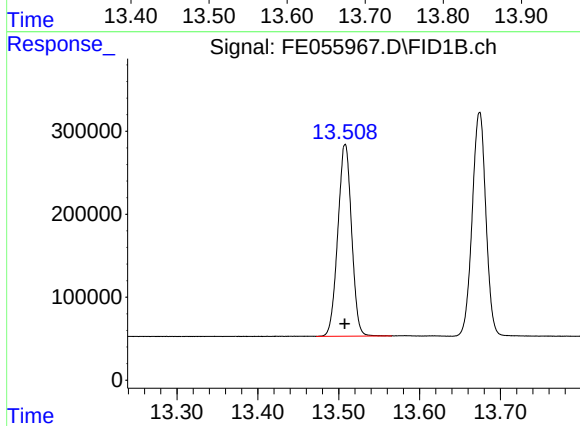
#10 n-Eicosane (C20)

R.T.: 13.060 min
Delta R.T.: 0.001 min
Response: 3245046
Conc: 19.58 ug/ml



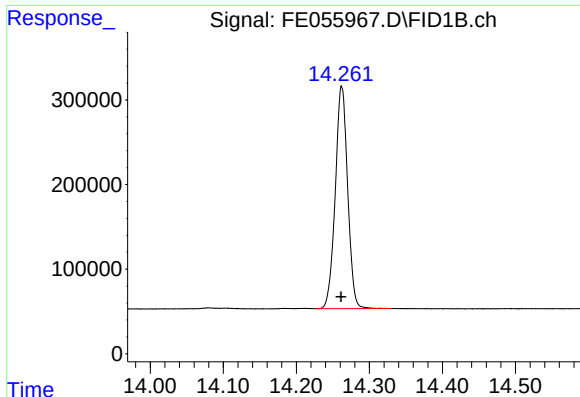
#11 n-Heneicosane (C21)

R.T.: 13.674 min
Delta R.T.: 0.000 min
Response: 3169164
Conc: 19.50 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.508 min
Delta R.T.: 0.000 min
Response: 2728050
Conc: 19.55 ug/ml



#13 n-Docosane (C22)

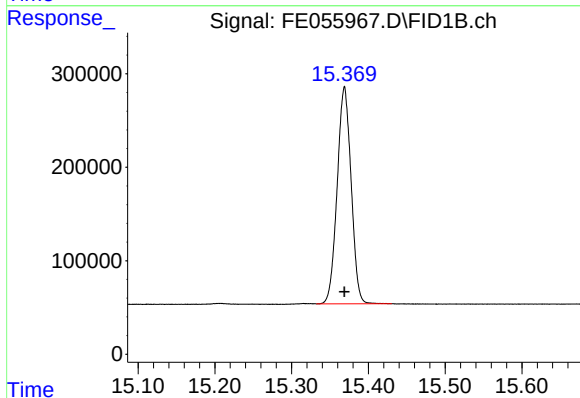
R.T.: 14.262 min
Delta R.T.: 0.000 min
Response: 3099587
Conc: 19.40 ug/ml

Instrument :

FID_E

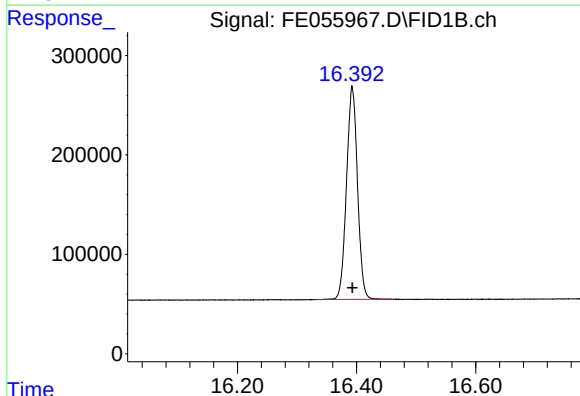
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



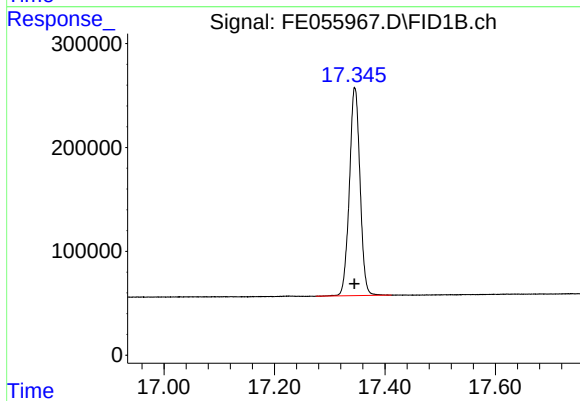
#14 n-Tetracosane (C24)

R.T.: 15.369 min
Delta R.T.: 0.000 min
Response: 2928176
Conc: 19.22 ug/ml



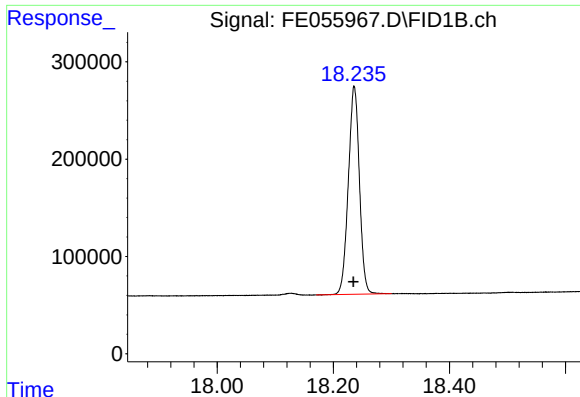
#15 n-Hexacosane (C26)

R.T.: 16.393 min
Delta R.T.: 0.000 min
Response: 2744599
Conc: 19.24 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min
Delta R.T.: 0.000 min
Response: 2675215
Conc: 19.20 ug/ml



#17 n-Tricontane (C30)

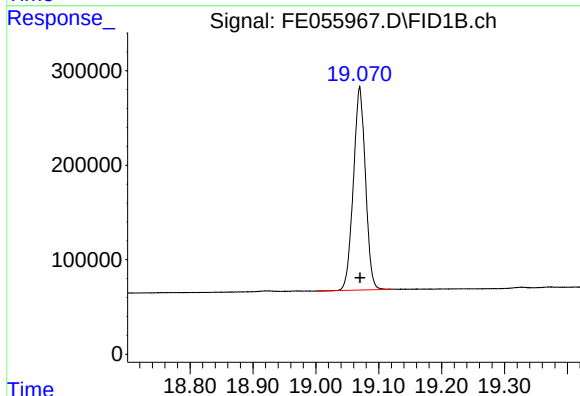
R.T.: 18.236 min
Delta R.T.: 0.002 min
Response: 2835374
Conc: 19.13 ug/ml

Instrument :

FID_E

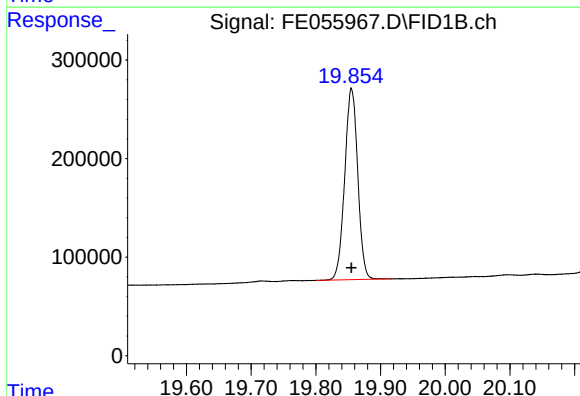
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



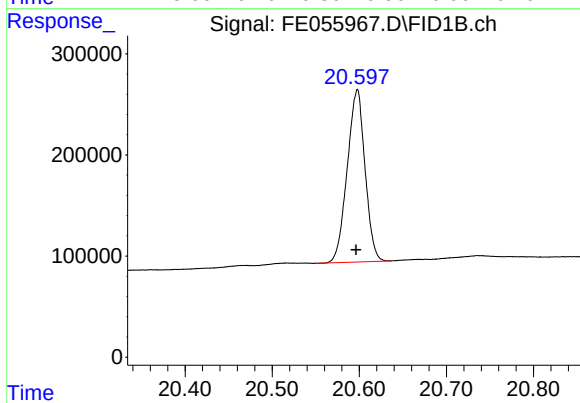
#18 n-Dotriacontane (C32)

R.T.: 19.070 min
Delta R.T.: 0.000 min
Response: 2865562
Conc: 19.21 ug/ml



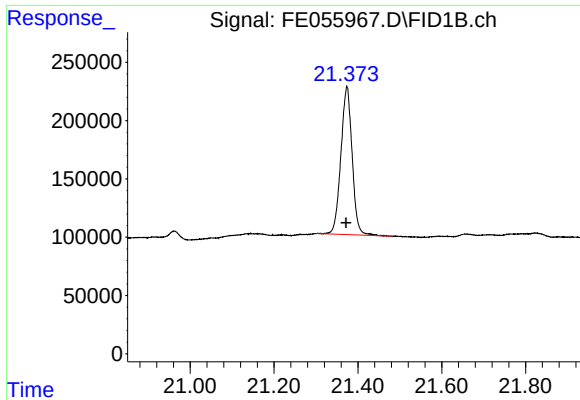
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min
Delta R.T.: 0.000 min
Response: 2719117
Conc: 19.22 ug/ml



#20 n-Hexatriacontane (C36)

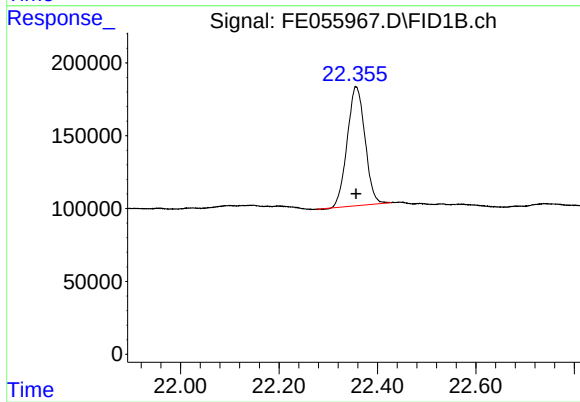
R.T.: 20.597 min
Delta R.T.: 0.001 min
Response: 2416072
Conc: 18.82 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min
Delta R.T.: 0.002 min
Response: 2366982
Conc: 18.02 ug/ml

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.357 min
Delta R.T.: 0.000 min
Response: 2042298
Conc: 17.17 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE092425AL\
 Data File : FE055967.D
 Signal(s) : FID1B.ch
 Acq On : 24 Sep 2025 11:39
 Sample : 20 PPM ALIPHATIC HC STD ICV
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.380	3.455	BB	285220	2817872	76.82%	4.404%
2	4.668	4.624	4.720	BB	293455	2859346	77.95%	4.469%
3	6.388	6.357	6.477	BB	331697	3249421	88.58%	5.078%
4	6.843	6.800	6.897	BB	299925	2929821	79.87%	4.579%
5	7.488	7.447	7.579	BB	314271	3143650	85.70%	4.913%
6	8.680	8.645	8.745	BB	288401	2980588	81.25%	4.658%
7	10.295	10.255	10.355	BB	293683	3166204	86.31%	4.948%
8	11.745	11.699	11.804	BB	293541	3336057	90.94%	5.214%
9	12.071	12.030	12.120	BB	352970	3668282	100.00%	5.733%
10	13.060	13.022	13.119	BB	272237	3245046	88.46%	5.071%
11	13.508	13.472	13.565	BB	231703	2728050	74.37%	4.263%
12	13.674	13.637	13.734	BB	270029	3169164	86.39%	4.953%
13	14.262	14.227	14.330	BB	262720	3099587	84.50%	4.844%
14	15.369	15.332	15.430	BB	232304	2928176	79.82%	4.576%
15	16.393	16.332	16.459	BB	214476	2744599	74.82%	4.289%
16	17.346	17.275	17.412	BB	200293	2675215	72.93%	4.181%
17	18.236	18.170	18.300	BB	214339	2835374	77.29%	4.431%
18	19.070	19.000	19.120	BB	215278	2865562	78.12%	4.478%
19	19.855	19.800	19.917	BB	193722	2719117	74.13%	4.250%
20	20.597	20.550	20.637	BV	169926	2416072	65.86%	3.776%
21	21.374	21.300	21.480	BB	127571	2366982	64.53%	3.699%
22	22.357	22.275	22.429	BB	81304	2042298	55.67%	3.192%
Sum of corrected areas:						63986485		

Aliphatic EPH 092425.M Wed Sep 24 15:38:29 2025

Continuing Calibration Report for SequenceID : FE100325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056163.D

Aliphatic C9-C12	8104359.000	60.000	3.311	6.944	135072.650	140027.957	3.539
Aliphatic C12-C16	6592546.000	40.000	6.945	10.393	164813.650	153376.491	-7.457
Aliphatic C16-C21	10831206.000	60.000	10.394	13.770	180520.100	165879.737	-8.826
Aliphatic C21-C28	12738583.000	80.000	13.771	17.439	159232.288	148527.151	-7.208
Aliphatic C28-C40	17718959.000	120.000	17.440	22.443	147657.992	136251.923	-8.371
Aliphatic EPH	55985653.000	360.000	3.311	22.443	155515.703	146449.789	-6.190

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	03 Oct 2025 11:00
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056163.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.311	6.944	8104359.000	60.000	ug/ml
Aliphatic C12-C16	6.945	10.393	6592546.000	40.000	ug/ml
Aliphatic C16-C21	10.394	13.770	10831206.000	60.000	ug/ml
Aliphatic C21-C28	13.771	17.439	12738583.000	80.000	ug/ml
Aliphatic C28-C40	17.440	22.443	17718959.000	120.000	ug/ml
Aliphatic EPH	3.311	22.443	55985653.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056163.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 11:00
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 03 23:11:47 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.068	4057765	21.624 ug/ml
Spiked Amount 50.000		Recovery =	43.25%
12) S 1-chlorooctadecane (S...	13.504	3023113	21.661 ug/ml
Spiked Amount 50.000		Recovery =	43.32%
Target Compounds			
1) T n-Nonane (C9)	3.411	2541644	18.553 ug/ml
2) T n-Decane (C10)	4.669	2676880	19.180 ug/ml
3) T A~Naphthalene (C11.7)	6.388	3268846	20.473 ug/ml
4) T n-Dodecane (C12)	6.844	2885835	20.106 ug/ml
5) T A~2-methylnaphthalene...	7.488	3271003	21.033 ug/ml
6) T n-Tetradecane (C14)	8.679	3118257	21.091 ug/ml
7) T n-Hexadecane (C16)	10.293	3474289	21.864 ug/ml
8) T n-Octadecane (C18)	11.742	3719275	21.958 ug/ml
10) T n-Eicosane (C20)	13.056	3613323	21.798 ug/ml
11) T n-Heneicosane (C21)	13.670	3498608	21.531 ug/ml
13) T n-Docosane (C22)	14.258	3416580	21.382 ug/ml
14) T n-Tetracosane (C24)	15.364	3264188	21.421 ug/ml
15) T n-Hexacosane (C26)	16.388	3059311	21.449 ug/ml
16) T n-Octacosane (C28)	17.339	2998504	21.525 ug/ml
17) T n-Tricontane (C30)	18.230	3177347	21.442 ug/ml
18) T n-Dotriacontane (C32)	19.063	3308702	22.176 ug/ml
19) T n-Tetratriacontane (C34)	19.849	3195116	22.588 ug/ml
20) T n-Hexatriacontane (C36)	20.589	2879553	22.432 ug/ml
21) T n-Octatriacontane (C38)	21.363	2670648	20.333 ug/ml
22) T n-Tetracontane (C40)	22.343	2487593	20.910 ug/ml

(f)=RT Delta > 1/2 Window

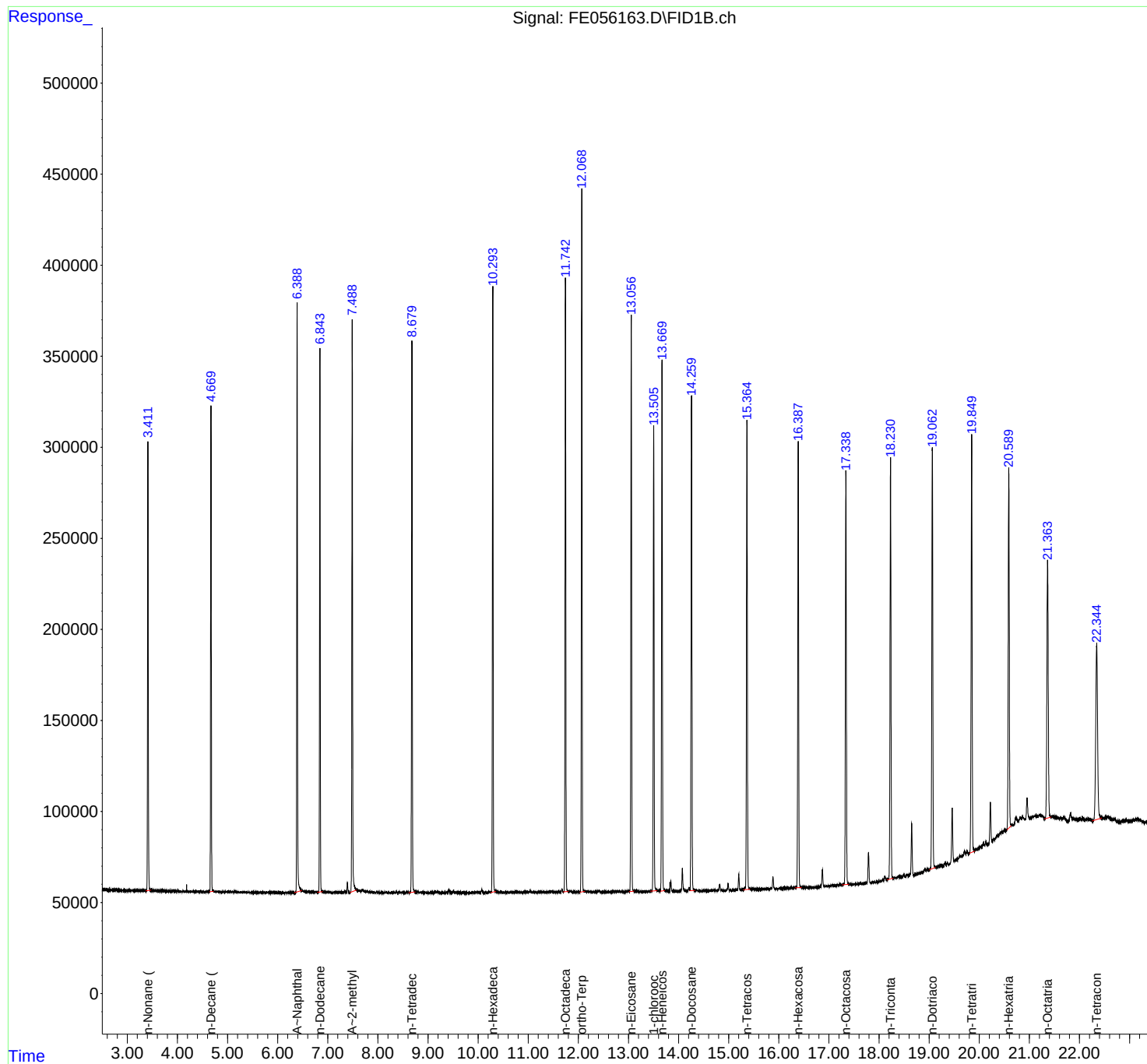
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056163.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 11:00
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 03 23:11:47 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056163.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 11:00
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.370	3.470	BB	246328	2541644	62.64%	3.651%
2	4.669	4.637	4.723	BB	266936	2676880	65.97%	3.846%
3	6.388	6.328	6.480	BB	323673	3268846	80.56%	4.696%
4	6.844	6.792	6.895	BB	298275	2885835	71.12%	4.146%
5	7.488	7.440	7.577	BB	313706	3271003	80.61%	4.699%
6	8.679	8.618	8.748	BB	302254	3118257	76.85%	4.480%
7	10.293	10.250	10.357	BB	332729	3474289	85.62%	4.991%
8	11.742	11.698	11.800	BB	336781	3719275	91.66%	5.343%
9	12.068	12.027	12.130	BB	386260	4057765	100.00%	5.830%
10	13.056	13.017	13.110	BB	316227	3613323	89.05%	5.191%
11	13.504	13.442	13.575	BB	257374	3023113	74.50%	4.343%
12	13.670	13.633	13.728	BB	290225	3498608	86.22%	5.026%
13	14.258	14.225	14.323	VB	271584	3416580	84.20%	4.908%
14	15.364	15.295	15.428	BB	256292	3264188	80.44%	4.689%
15	16.388	16.323	16.452	BB	244444	3059311	75.39%	4.395%
16	17.339	17.262	17.398	BB	226321	2998504	73.90%	4.308%
17	18.230	18.160	18.288	BB	230957	3177347	78.30%	4.565%
18	19.063	19.000	19.130	BB	230280	3308702	81.54%	4.753%
19	19.849	19.800	19.912	BV	225946	3195116	78.74%	4.590%
20	20.589	20.550	20.640	BB	197585	2879553	70.96%	4.137%
21	21.363	21.300	21.432	BB	141372	2670648	65.82%	3.837%
22	22.343	22.250	22.438	BB	96349	2487593	61.30%	3.574%
Sum of corrected areas:						69606380		

Aliphatic EPH 092425.M Sat Oct 04 00:10:09 2025

Continuing Calibration Report for SequenceID : FE100325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
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File ID : FE056177.D

Aliphatic C9-C12	7448117.000	60.000	3.311	6.944	124135.283	140027.957	11.350
Aliphatic C12-C16	6053684.000	40.000	6.945	10.393	151342.100	153376.491	1.326
Aliphatic C16-C21	9852406.000	60.000	10.394	13.770	164206.767	165879.737	1.009
Aliphatic C21-C28	11632816.000	80.000	13.771	17.439	145410.200	148527.151	2.099
Aliphatic C28-C40	16324054.000	120.000	17.440	22.443	136033.783	136251.923	0.160
Aliphatic EPH	51311077.000	360.000	3.311	22.443	142530.769	146449.789	2.676

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	03 Oct 2025 21:20
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056177.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.311	6.944	7448117.000	60.000	ug/ml
Aliphatic C12-C16	6.945	10.393	6053684.000	40.000	ug/ml
Aliphatic C16-C21	10.394	13.770	9852406.000	60.000	ug/ml
Aliphatic C21-C28	13.771	17.439	11632816.000	80.000	ug/ml
Aliphatic C28-C40	17.440	22.443	16324054.000	120.000	ug/ml
Aliphatic EPH	3.311	22.443	51311077.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056177.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 21:20
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 03 23:17:20 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.067	3695063	19.691 ug/ml
Spiked Amount 50.000		Recovery =	39.38%
12) S 1-chlorooctadecane (S...	13.504	2755564	19.744 ug/ml
Spiked Amount 50.000		Recovery =	39.49%
Target Compounds			
1) T n-Nonane (C9)	3.410	2333418	17.033 ug/ml
2) T n-Decane (C10)	4.668	2456006	17.598 ug/ml
3) T A~Naphthalene (C11.7)	6.387	3021139	18.922 ug/ml
4) T n-Dodecane (C12)	6.842	2658693	18.524 ug/ml
5) T A~2-methylnaphthalene...	7.487	3001698	19.301 ug/ml
6) T n-Tetradecane (C14)	8.678	2867644	19.396 ug/ml
7) T n-Hexadecane (C16)	10.292	3186040	20.050 ug/ml
8) T n-Octadecane (C18)	11.741	3400552	20.076 ug/ml
10) T n-Eicosane (C20)	13.055	3284230	19.813 ug/ml
11) T n-Heneicosane (C21)	13.669	3167624	19.494 ug/ml
13) T n-Docosane (C22)	14.258	3108516	19.454 ug/ml
14) T n-Tetracosane (C24)	15.363	2990312	19.624 ug/ml
15) T n-Hexacosane (C26)	16.387	2792395	19.578 ug/ml
16) T n-Octacosane (C28)	17.339	2741593	19.680 ug/ml
17) T n-Tricontane (C30)	18.228	2929947	19.773 ug/ml
18) T n-Dotriacontane (C32)	19.062	3068065	20.564 ug/ml
19) T n-Tetratriacontane (C34)	19.846	2941574	20.796 ug/ml
20) T n-Hexatriacontane (C36)	20.588	2660071	20.722 ug/ml
21) T n-Octatriacontane (C38)	21.361	2459594	18.727 ug/ml
22) T n-Tetracontane (C40)	22.339	2264803	19.037 ug/ml

(f)=RT Delta > 1/2 Window

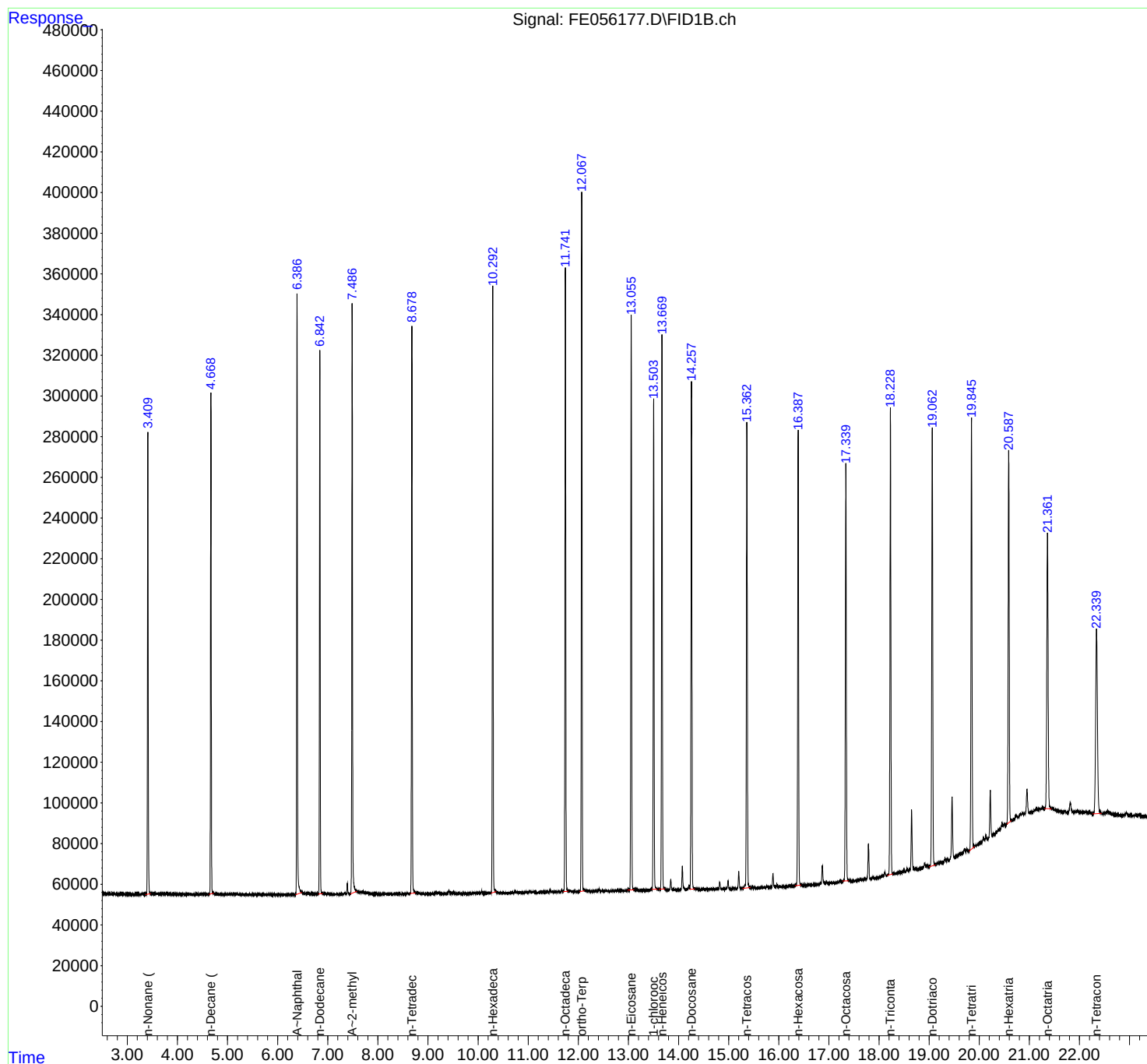
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056177.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 21:20
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 03 23:17:20 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056177.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 21:20
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.410	3.367	3.467	BB	226065	2333418	63.15%	3.658%
2	4.668	4.627	4.717	BB	246077	2456006	66.47%	3.850%
3	6.387	6.355	6.485	BB	294690	3021139	81.76%	4.736%
4	6.842	6.809	6.899	BB	266717	2658693	71.95%	4.168%
5	7.487	7.449	7.579	BB	289006	3001698	81.24%	4.706%
6	8.678	8.644	8.745	BB	278484	2867644	77.61%	4.496%
7	10.292	10.255	10.355	BB	298023	3186040	86.22%	4.995%
8	11.741	11.700	11.800	BB	305896	3400552	92.03%	5.331%
9	12.067	12.030	12.124	BB	343457	3695063	100.00%	5.793%
10	13.055	12.989	13.112	BB	281163	3284230	88.88%	5.149%
11	13.504	13.469	13.574	BB	240742	2755564	74.57%	4.320%
12	13.669	13.614	13.727	BB	270868	3167624	85.73%	4.966%
13	14.258	14.224	14.325	VB	248219	3108516	84.13%	4.873%
14	15.363	15.274	15.434	BB	228473	2990312	80.93%	4.688%
15	16.387	16.322	16.449	BB	224010	2792395	75.57%	4.378%
16	17.339	17.275	17.395	BB	204682	2741593	74.20%	4.298%
17	18.228	18.162	18.277	BB	229699	2929947	79.29%	4.594%
18	19.062	19.000	19.125	BB	215015	3068065	83.03%	4.810%
19	19.846	19.800	19.907	BB	211452	2941574	79.61%	4.612%
20	20.588	20.550	20.640	BB	182109	2660071	71.99%	4.170%
21	21.361	21.300	21.440	BB	135877	2459594	66.56%	3.856%
22	22.339	22.262	22.439	BB	90764	2264803	61.29%	3.551%
Sum of corrected areas:						63784541		

Aliphatic EPH 092425.M Sat Oct 04 00:17:05 2025

Continuing Calibration Report for SequenceID : FE100325AL

Parameter	AreaCount	Conc.	RT_Min	RT_Max	Response Factor	AVGRF	%DEV
-----------	-----------	-------	--------	--------	-----------------	-------	------

File ID : FE056190.D

Aliphatic C9-C12	7433078.000	60.000	3.311	6.944	123884.633	140027.957	11.529
Aliphatic C12-C16	6092853.000	40.000	6.945	10.393	152321.325	153376.491	0.688
Aliphatic C16-C21	9976890.000	60.000	10.394	13.770	166281.500	165879.737	-0.242
Aliphatic C21-C28	11763260.000	80.000	13.771	17.439	147040.750	148527.151	1.001
Aliphatic C28-C40	16330305.000	120.000	17.440	22.443	136085.875	136251.923	0.122
Aliphatic EPH	51596386.000	360.000	3.311	22.443	143323.294	146449.789	2.135

Lab Sample ID:	20 PPM ALIPHATIC HC 9	Acq On:	04 Oct 2025 05:30
Client Sample ID:		Operator:	YP\AJ
Data file:	FE056190.D	Misc:	
Instrument:	FID_E	ALS Vial:	2
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	Units
Aliphatic C9-C12	3.311	6.944	7433078.000	60.000	ug/ml
Aliphatic C12-C16	6.945	10.393	6092853.000	40.000	ug/ml
Aliphatic C16-C21	10.394	13.770	9976890.000	60.000	ug/ml
Aliphatic C21-C28	13.771	17.439	11763260.000	80.000	ug/ml
Aliphatic C28-C40	17.440	22.443	16330305.000	120.000	ug/ml
Aliphatic EPH	3.311	22.443	51596386.000	360.000	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056190.D
 Signal(s) : FID1B.ch
 Acq On : 04 Oct 2025 05:30
 Operator : YP\AJ
 Sample : 20 PPM ALIPHATIC HC STD
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
 Quant Time: Oct 04 06:33:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.068	3727487	19.864 ug/ml
Spiked Amount 50.000		Recovery =	39.73%
12) S 1-chlorooctadecane (S...	13.504	2786784	19.968 ug/ml
Spiked Amount 50.000		Recovery =	39.94%
Target Compounds			
1) T n-Nonane (C9)	3.411	2323562	16.961 ug/ml
2) T n-Decane (C10)	4.669	2452595	17.573 ug/ml
3) T A~Naphthalene (C11.7)	6.387	3029598	18.975 ug/ml
4) T n-Dodecane (C12)	6.842	2656921	18.511 ug/ml
5) T A~2-methylnaphthalene...	7.487	3027757	19.469 ug/ml
6) T n-Tetradecane (C14)	8.678	2879207	19.474 ug/ml
7) T n-Hexadecane (C16)	10.292	3213646	20.223 ug/ml
8) T n-Octadecane (C18)	11.741	3435367	20.282 ug/ml
10) T n-Eicosane (C20)	13.056	3328380	20.079 ug/ml
11) T n-Heneicosane (C21)	13.670	3213143	19.774 ug/ml
13) T n-Docosane (C22)	14.258	3145967	19.688 ug/ml
14) T n-Tetracosane (C24)	15.364	3019724	19.817 ug/ml
15) T n-Hexacosane (C26)	16.387	2821457	19.781 ug/ml
16) T n-Octacosane (C28)	17.340	2776112	19.928 ug/ml
17) T n-Tricontane (C30)	18.229	2958566	19.966 ug/ml
18) T n-Dotriacontane (C32)	19.063	3090378	20.713 ug/ml
19) T n-Tetratriacontane (C34)	19.849	2932680	20.733 ug/ml
20) T n-Hexatriacontane (C36)	20.589	2653460	20.670 ug/ml
21) T n-Octatriacontane (C38)	21.362	2433647	18.529 ug/ml
22) T n-Tetracontane (C40)	22.342	2261574	19.010 ug/ml

(f)=RT Delta > 1/2 Window

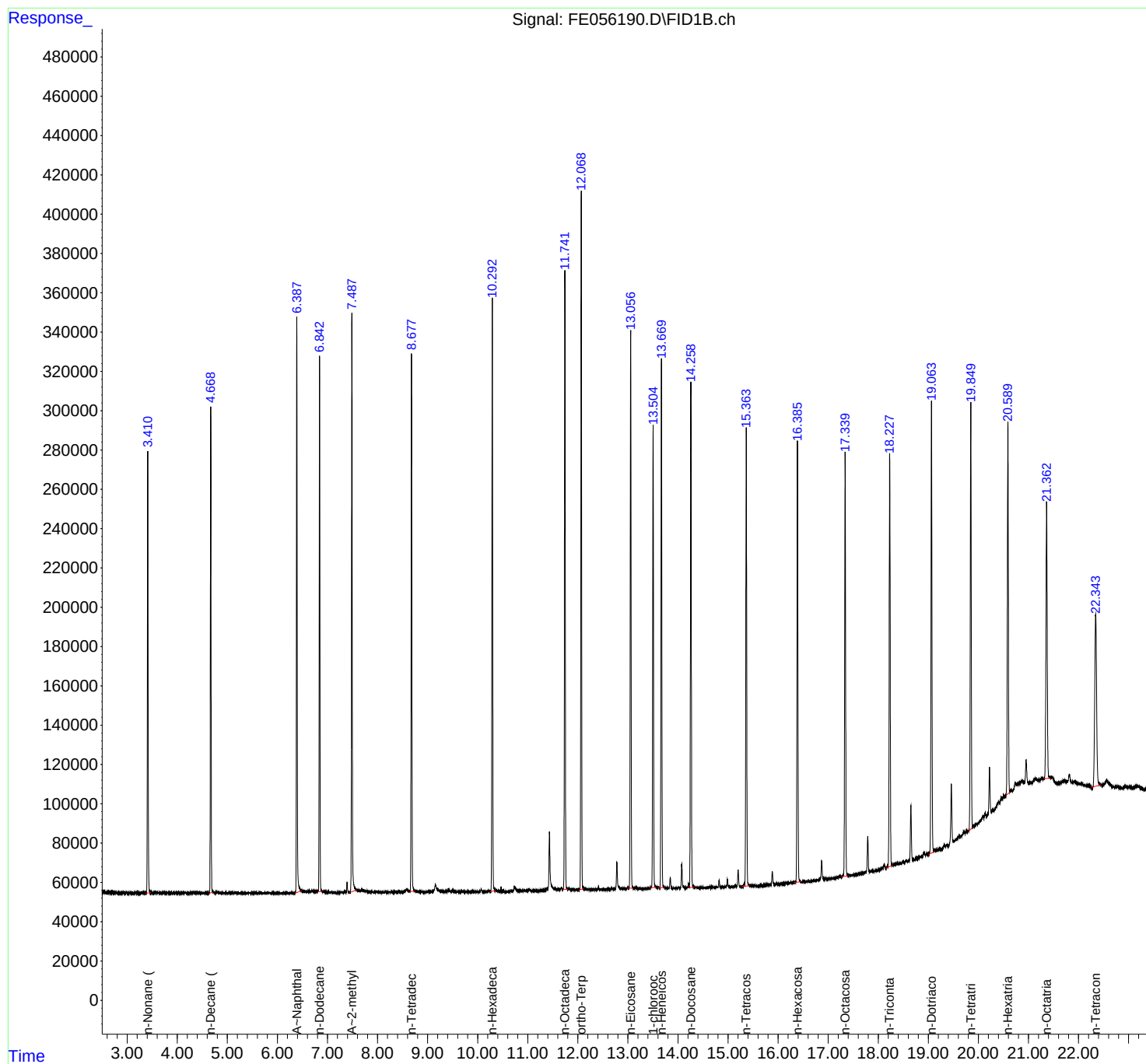
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056190.D
Signal(s) : FID1B.ch
Acq On : 04 Oct 2025 05:30
Operator : YP\AJ
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
20 PPM ALIPHATIC HC STD

Integration File: autoint1.e
Quant Time: Oct 04 06:33:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056190.D
Signal(s) : FID1B.ch
Acq On : 04 Oct 2025 05:30
Sample : 20 PPM ALIPHATIC HC STD
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.411	3.367	3.469	BB	224314	2323562	62.34%	3.621%
2	4.669	4.637	4.719	BB	247118	2452595	65.80%	3.822%
3	6.387	6.357	6.482	BB	292681	3029598	81.28%	4.721%
4	6.842	6.809	6.897	BB	272397	2656921	71.28%	4.141%
5	7.487	7.449	7.582	BB	294863	3027757	81.23%	4.718%
6	8.678	8.645	8.747	BB	273861	2879207	77.24%	4.487%
7	10.292	10.257	10.357	BB	302775	3213646	86.21%	5.008%
8	11.741	11.705	11.802	BB	315561	3435367	92.16%	5.354%
9	12.068	12.027	12.120	BB	357474	3727487	100.00%	5.809%
10	13.056	12.994	13.110	BB	283903	3328380	89.29%	5.187%
11	13.504	13.444	13.564	BB	234117	2786784	74.76%	4.343%
12	13.670	13.604	13.729	BB	269560	3213143	86.20%	5.007%
13	14.258	14.227	14.319	VB	257841	3145967	84.40%	4.903%
14	15.364	15.274	15.432	BB	233203	3019724	81.01%	4.706%
15	16.387	16.322	16.454	BB	222398	2821457	75.69%	4.397%
16	17.340	17.262	17.402	BB	210985	2776112	74.48%	4.326%
17	18.229	18.149	18.289	BB	209486	2958566	79.37%	4.611%
18	19.063	19.000	19.124	BB	228339	3090378	82.91%	4.816%
19	19.849	19.800	19.882	BB	216242	2932680	78.68%	4.570%
20	20.589	20.550	20.630	BV	188213	2653460	71.19%	4.135%
21	21.362	21.300	21.430	BB	140728	2433647	65.29%	3.793%
22	22.342	22.250	22.450	BB	87607	2261574	60.67%	3.524%
Sum of corrected areas:						64168012		

Aliphatic EPH 092425.M Sat Oct 04 06:54:52 2025



QC SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	PB169970BL	SDG No.:	Q3277
Lab Sample ID:	PB169970BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 09:40	10/03/25 14:15	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1	1.18	2.00	mg/kg	FE056164.D
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	1	0.91	3.99	mg/kg	FE056164.D
Total AliphaticEPH	Total AliphaticEPH	2.09	U		2.09	5.99	mg/kg	
Total EPH	Total EPH	2.09	U		2.09	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	PB169970BL	SDG No.:	Q3277
Lab Sample ID:	PB169970BL	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056164.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.91	U	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.18	U	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.5		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.8		40 - 140	82%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169970BL	Acq On:	03 Oct 2025 14:15
Client Sample ID:	PB169970BL	Operator:	YP\AJ
Data file:	FE056164.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.944	0	0	300	ug/ml
Aliphatic C12-C16	6.945	10.393	0	0	200	ug/ml
Aliphatic C16-C21	10.394	13.770	0	0	300	ug/ml
Aliphatic C21-C28	13.771	17.439	0	0	400	ug/ml
Aliphatic C28-C40	17.440	22.443	0	0	600	ug/ml
Aliphatic EPH	3.311	22.443	0	0		ug/ml
ortho-Terphenyl (SURR)	12.070	12.070	7647792	40.76		ug/ml
1-chlorooctadecane (SURR)	13.507	13.507	5791001	41.49		ug/ml
Aliphatic C9-C28	3.311	17.439	0	0	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056164.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 14:15
 Operator : YP\AJ
 Sample : PB169970BL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB169970BL

Integration File: autoint1.e
 Quant Time: Oct 03 23:12:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.070	7647792	40.755 ug/ml
Spiked Amount 50.000		Recovery =	81.51%
12) S 1-chlorooctadecane (S...	13.507	5791001	41.493 ug/ml
Spiked Amount 50.000		Recovery =	82.99%

Target Compounds

(f)=RT Delta > 1/2 Window

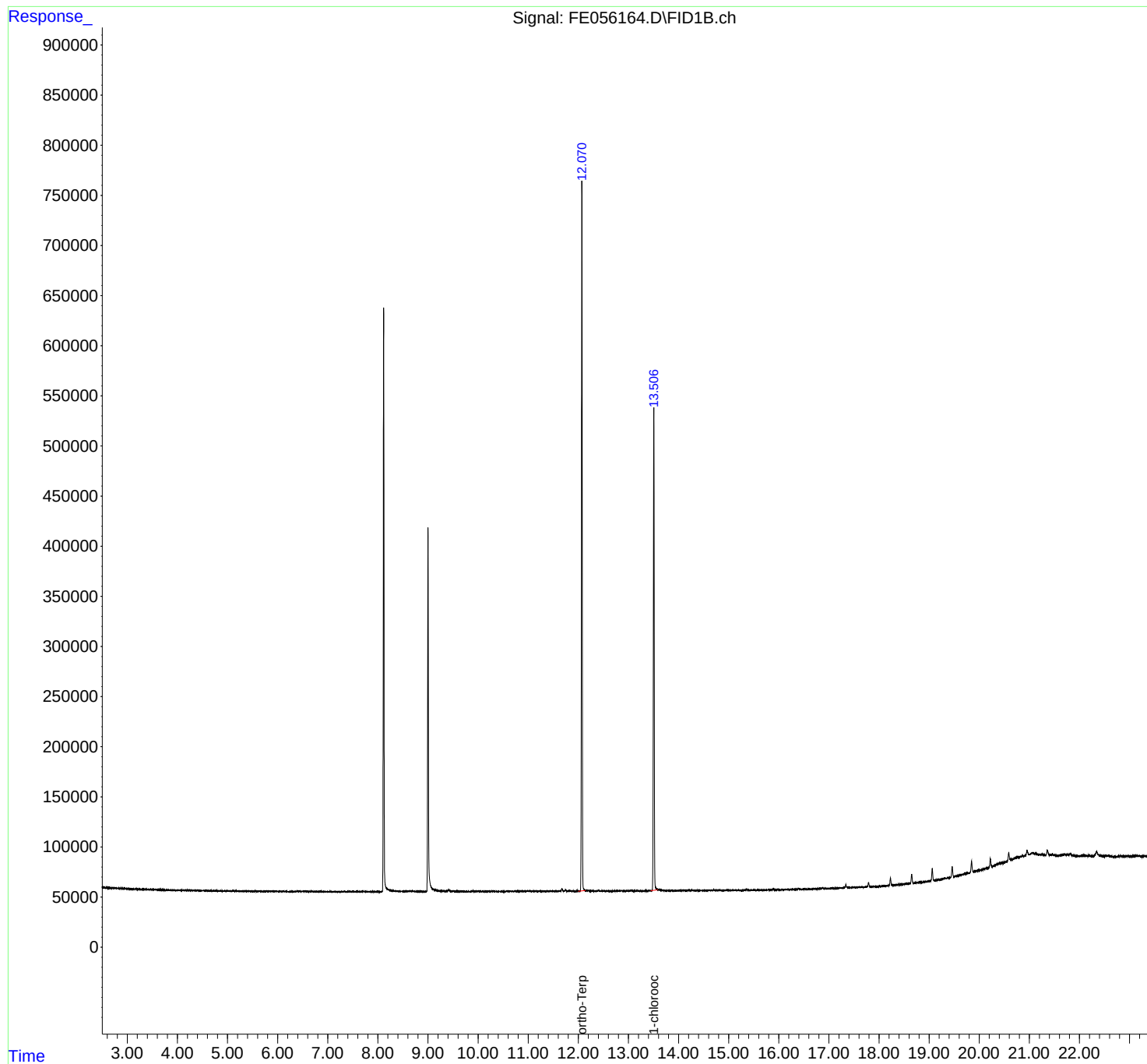
(m)=manual int.

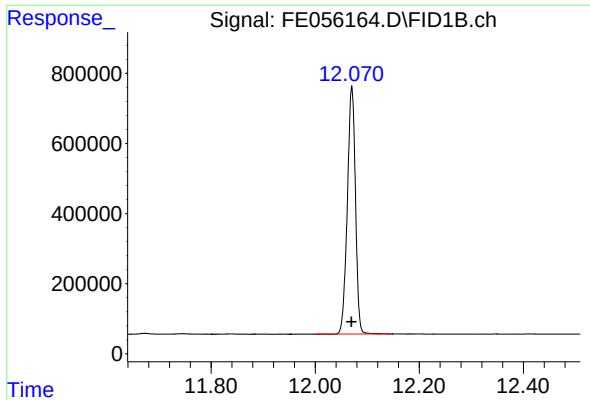
Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056164.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 14:15
Operator : YP\AJ
Sample : PB169970BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
FID_E
ClientSampleId :
PB169970BL

Integration File: autoint1.e
Quant Time: Oct 03 23:12:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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

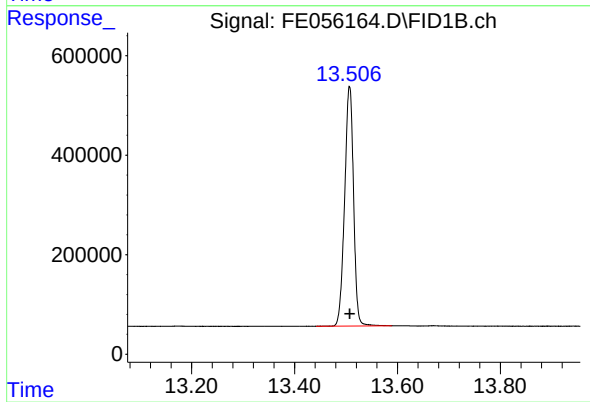




#9 ortho-Terphenyl (SURR)

R.T.: 12.070 min
Delta R.T.: 0.000 min
Response: 7647792
Conc: 40.76 ug/ml

Instrument :
FID_E
ClientSampleId :
PB169970BL



#12 1-chlorooctadecane (SURR)

R.T.: 13.507 min
Delta R.T.: 0.000 min
Response: 5791001
Conc: 41.49 ug/ml

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056164.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 14:15
Sample : PB169970BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.070	12.002	12.147	BB	707123	7647792	100.00%	56.908%
2	13.507	13.442	13.589	BB	481803	5791001	75.72%	43.092%
Sum of corrected areas:						13438793		

Aliphatic EPH 092425.M Sat Oct 04 00:10:42 2025

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	Newport		Date Received:		
Client Sample ID:	PB169970BS		SDG No.:	Q3277	
Lab Sample ID:	PB169970BS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	100	
Sample Wt/Vol:	30.03	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 09:40	10/03/25 14:45	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	32.2		1	1.18	2.00	mg/kg	FE056165.D
Aliphatic C9-C28	Aliphatic C9-C28	96.7	E	1	0.91	3.99	mg/kg	FE056165.D
Total AliphaticEPH	Total AliphaticEPH	129			2.09	5.99	mg/kg	
Total EPH	Total EPH	129			2.09	5.99	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	PB169970BS	SDG No.:	Q3277
Lab Sample ID:	PB169970BS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056165.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	96.7	E	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	32.2		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	48.7		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.9		40 - 140	92%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169970BS	Acq On:	03 Oct 2025 14:45
Client Sample ID:	PB169970BS	Operator:	YP\AJ
Data file:	FE056165.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.944	33047880	236.009	300	ug/ml
Aliphatic C12-C16	6.945	10.393	51918899	338.506	200	ug/ml
Aliphatic C16-C21	10.394	13.770	61796815	372.54	300	ug/ml
Aliphatic C21-C28	13.771	17.439	75086371	505.54	400	ug/ml
Aliphatic C28-C40	17.440	22.443	65838495	483.211	600	ug/ml
Aliphatic EPH	3.311	22.443	287688460	1940		ug/ml
ortho-Terphenyl (SURR)	12.073	12.073	8604608	45.85		ug/ml
1-chlorooctadecane (SURR)	13.507	13.507	6796985	48.7		ug/ml
Aliphatic C9-C28	3.311	17.439	221849965	1450	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056165.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 14:45
 Operator : YP\AJ
 Sample : PB169970BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB169970BS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/06/2025
 Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
 Quant Time: Oct 03 23:12:38 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.073	8604608	45.854 ug/ml
Spiked Amount 50.000		Recovery =	91.71%
12) S 1-chlorooctadecane (S...	13.507	6796985	48.701 ug/ml
Spiked Amount 50.000		Recovery =	97.40%
Target Compounds			
1) T n-Nonane (C9)	3.418	5585813	40.775 ug/ml
2) T n-Decane (C10)	4.674	6051551	43.361 ug/ml
3) T A~Naphthalene (C11.7)	6.390	7901417	49.488 ug/ml
4) T n-Dodecane (C12)	6.846	6790517	47.311 ug/ml
5) T A~2-methylnaphthalene...	7.491	7756970	49.878 ug/ml
6) T n-Tetradecane (C14)	8.683	7525710	50.903 ug/ml
7) T n-Hexadecane (C16)	10.296	8438841	53.105 ug/ml
8) T n-Octadecane (C18)	11.746	9044384	53.396 ug/ml
10) T n-Eicosane (C20)	13.061	9625614	58.068 ug/ml
11) T n-Heneicosane (C21)	13.675	9194213	56.583 ug/ml
13) T n-Docosane (C22)	14.263	8996868	56.304 ug/ml
14) T n-Tetracosane (C24)	15.370	16920750	111.043 ug/ml
15) T n-Hexacosane (C26)	16.393	7920008	55.528 ug/ml
16) T n-Octacosane (C28)	17.343	7777505	55.830 ug/mlm
17) T n-Tricontane (C30)	18.234	7664636	51.725 ug/ml
18) T n-Dotriacontane (C32)	19.067	7716446	51.719 ug/ml
19) T n-Tetratriacontane (C34)	19.852	8112246	57.350 ug/ml
20) T n-Hexatriacontane (C36)	20.595	8380238	65.281 ug/ml
21) T n-Octatriacontane (C38)	21.369	8666850	65.987 ug/ml
22) T n-Tetracontane (C40)	22.351	8092882	68.026 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056165.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 14:45
Operator : YP\AJ
Sample : PB169970BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

FID_E

ClientSampleId :

PB169970BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e

Quant Time: Oct 03 23:12:38 2025

Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M

Quant Title : GC Extractables

QLast Update : Wed Sep 24 12:55:37 2025

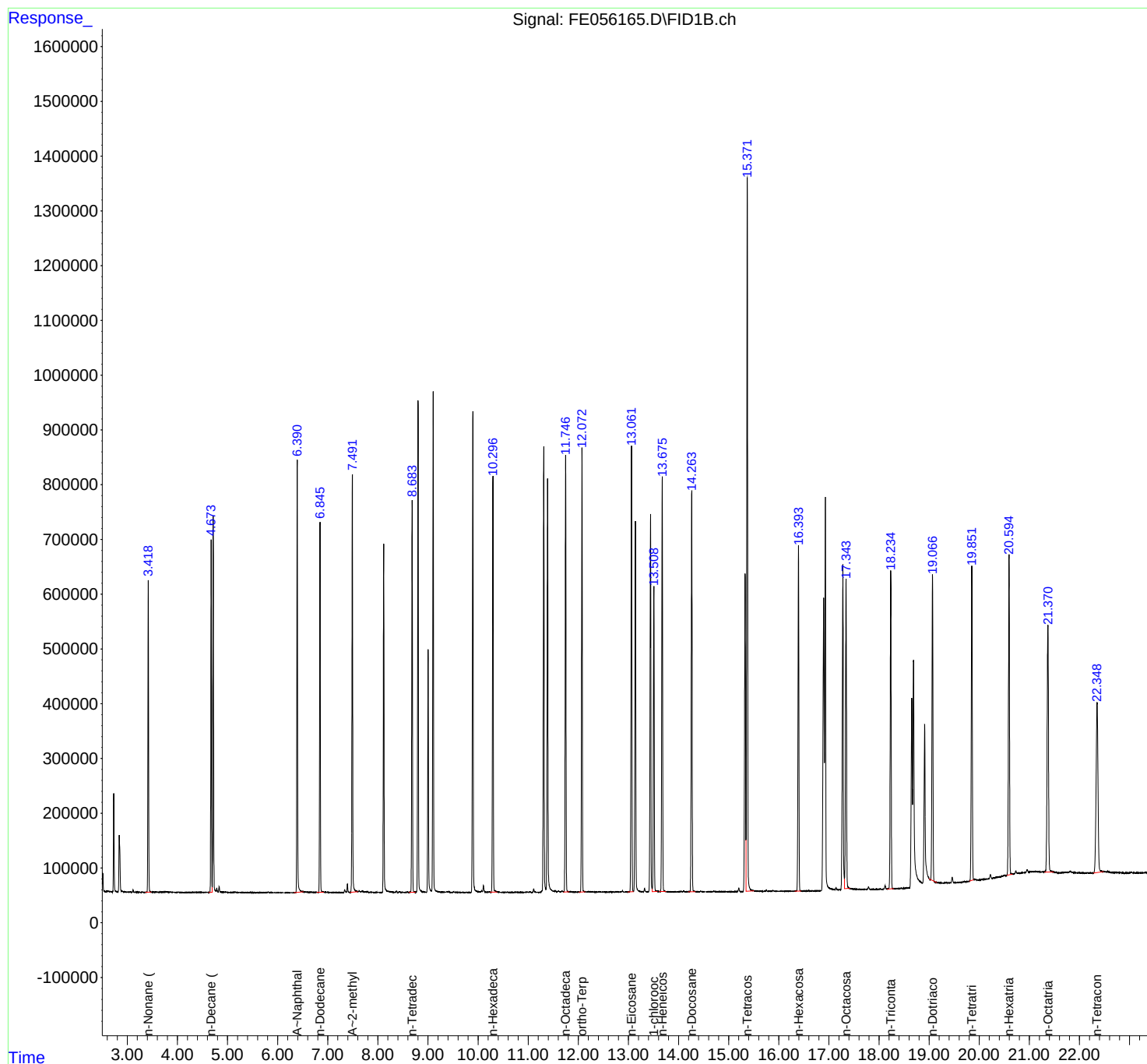
Response via : Initial Calibration

Integrator: ChemStation

Volume Inj. : 1 ul

Signal Phase : Rxi-1ms

Signal Info : 20M x 0.18mm x 0.18um



Instrument :

FID_E

ClientSampleId :

PB169970BS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE
Data File : FE056165.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 14:45
Sample : PB169970BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.418	3.359	3.477	BB	570099	5585813	33.01%	1.843%
2	4.674	4.620	4.693	BV	645197	6051551	35.76%	1.997%
3	4.714	4.693	4.767	VV	687283	6718582	39.71%	2.217%
4	6.390	6.329	6.512	BB	790026	7901417	46.70%	2.607%
5	6.846	6.780	6.920	BB	677506	6790517	40.13%	2.240%
6	7.491	7.439	7.600	BB	760624	7756970	45.84%	2.559%
7	8.683	8.624	8.754	BB	718038	7525710	44.48%	2.483%
8	8.801	8.760	8.899	BB	900335	9249128	54.66%	3.052%
9	9.103	9.069	9.202	VB	917870	9414088	55.64%	3.106%
10	9.895	9.832	10.010	BB	879702	9534162	56.35%	3.146%
11	10.296	10.239	10.382	BB	759534	8438841	49.87%	2.784%
12	11.310	11.234	11.353	BV	816476	8914442	52.68%	2.941%
13	11.386	11.353	11.470	VBA	754085	8687241	51.34%	2.866%
14	11.746	11.705	11.819	BB	793563	9044384	53.45%	2.984%
15	12.073	12.010	12.140	BB	806884	8604608	50.85%	2.839%
16	13.061	12.990	13.100	BV	808648	9625614	56.89%	3.176%
17	13.139	13.100	13.230	VBA	673058	8194043	48.43%	2.704%
18	13.441	13.374	13.474	BV	682789	8136878	48.09%	2.685%
19	13.507	13.474	13.582	VB	557282	6796985	40.17%	2.243%
20	13.675	13.609	13.754	BB	760989	9194213	54.34%	3.033%
21	14.263	14.192	14.337	BB	733891	8996868	53.17%	2.968%
22	15.327	15.260	15.345	BV	579915	7752127	45.81%	2.558%
23	15.370	15.345	15.504	VB	1301401	16920750	100.00%	5.583%
24	16.393	16.322	16.449	BB	631003	7920008	46.81%	2.613%
25	16.896	16.824	16.911	BV	533201	8466153	50.03%	2.793%
26	16.930	16.911	17.065	VB	716850	9004846	53.22%	2.971%
27	17.279	17.234	17.308	M	594587	8119661	47.99%	2.679%
28	17.343	17.310	17.419	M	568143	7905958	46.72%	2.608%
29	18.234	18.160	18.295	BB	579143	7664636	45.30%	2.529%
30	18.653	18.580	18.668	BV	344425	5099693	30.14%	1.683%
31	18.688	18.668	18.869	VV	413174	7467268	44.13%	2.464%

	Area	Time	Height	Area%	Height%	Integration	Integration
32	18.911	18.869	19.000	PBA	287656	4638236	27.41% 1.530%
33	19.067	19.000	19.159	BB	558170	771644	
34	19.852	19.800	19.890	BB	570328	811224	
35	20.595	20.550	20.664	BB	584235	838023	
36	21.369	21.300	21.482	BB	447262	866685	
37	22.351	22.272	22.484	BB	307919	809288	47.83% 2.670%
Sum of corrected areas:						303090053	

Instrument :
FID_E
ClientSampleId :
PB169970BS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Aliphatic EPH 092425.M Sat Oct 04 00:13:56 2025

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	PB169970BSD	SDG No.:	Q3277
Lab Sample ID:	PB169970BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 09:40	10/03/25 15:15	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.0		1	1.18	2.00	mg/kg	FE056166.D
Aliphatic C9-C28	Aliphatic C9-C28	95.3	E	1	0.91	4.00	mg/kg	FE056166.D
Total AliphaticEPH	Total AliphaticEPH	129			2.09	6.00	mg/kg	
Total EPH	Total EPH	129			2.09	6.00	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	PB169970BSD	SDG No.:	Q3277
Lab Sample ID:	PB169970BSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056166.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	95.3	E	0.91	4.00	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.0		1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	48.2		40 - 140	96%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.2		40 - 140	90%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	PB169970BSD	Acq On:	03 Oct 2025 15:15
Client Sample ID:	PB169970BSD	Operator:	YP\AJ
Data file:	FE056166.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.944	31734901	226.633	300	ug/ml
Aliphatic C12-C16	6.945	10.393	50722265	330.704	200	ug/ml
Aliphatic C16-C21	10.394	13.770	61064273	368.124	300	ug/ml
Aliphatic C21-C28	13.771	17.439	74997158	504.939	400	ug/ml
Aliphatic C28-C40	17.440	22.443	69566785	510.575	600	ug/ml
Aliphatic EPH	3.311	22.443	288085382	1940		ug/ml
ortho-Terphenyl (SURR)	12.072	12.072	8478477	45.18		ug/ml
1-chlorooctadecane (SURR)	13.507	13.507	6724146	48.18		ug/ml
Aliphatic C9-C28	3.311	17.439	218518597	1430	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056166.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 15:15
 Operator : YP\AJ
 Sample : PB169970BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 PB169970BSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/06/2025
 Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
 Quant Time: Oct 03 23:13:08 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.072	8478477	45.182 ug/ml
Spiked Amount 50.000		Recovery =	90.36%
12) S 1-chlorooctadecane (S...	13.507	6724146	48.179 ug/ml
Spiked Amount 50.000		Recovery =	96.36%
Target Compounds			
1) T n-Nonane (C9)	3.417	5295726	38.657 ug/ml
2) T n-Decane (C10)	4.673	5784914	41.450 ug/ml
3) T A~Naphthalene (C11.7)	6.390	7647933	47.900 ug/ml
4) T n-Dodecane (C12)	6.845	6564780	45.739 ug/ml
5) T A~2-methylnaphthalene...	7.490	7553612	48.570 ug/ml
6) T n-Tetradecane (C14)	8.683	7318146	49.499 ug/ml
7) T n-Hexadecane (C16)	10.296	8237662	51.839 ug/ml
8) T n-Octadecane (C18)	11.746	8854025	52.272 ug/ml
10) T n-Eicosane (C20)	13.060	9458021	57.057 ug/ml
11) T n-Heneicosane (C21)	13.674	9061061	55.763 ug/ml
13) T n-Docosane (C22)	14.262	8874445	55.538 ug/ml
14) T n-Tetracosane (C24)	15.371	16839671	110.510 ug/ml
15) T n-Hexacosane (C26)	16.393	7857831	55.092 ug/ml
16) T n-Octacosane (C28)	17.343	7699407	55.270 ug/mlm
17) T n-Tricontane (C30)	18.235	7643909	51.585 ug/ml
18) T n-Dotriacontane (C32)	19.067	7700306	51.611 ug/ml
19) T n-Tetratriacontane (C34)	19.852	8050837	56.916 ug/ml
20) T n-Hexatriacontane (C36)	20.594	8325719	64.857 ug/ml
21) T n-Octatriacontane (C38)	21.369	8648301	65.845 ug/ml
22) T n-Tetracontane (C40)	22.352	8235299	69.223 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056166.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 15:15
Operator : YP\AJ
Sample : PB169970BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

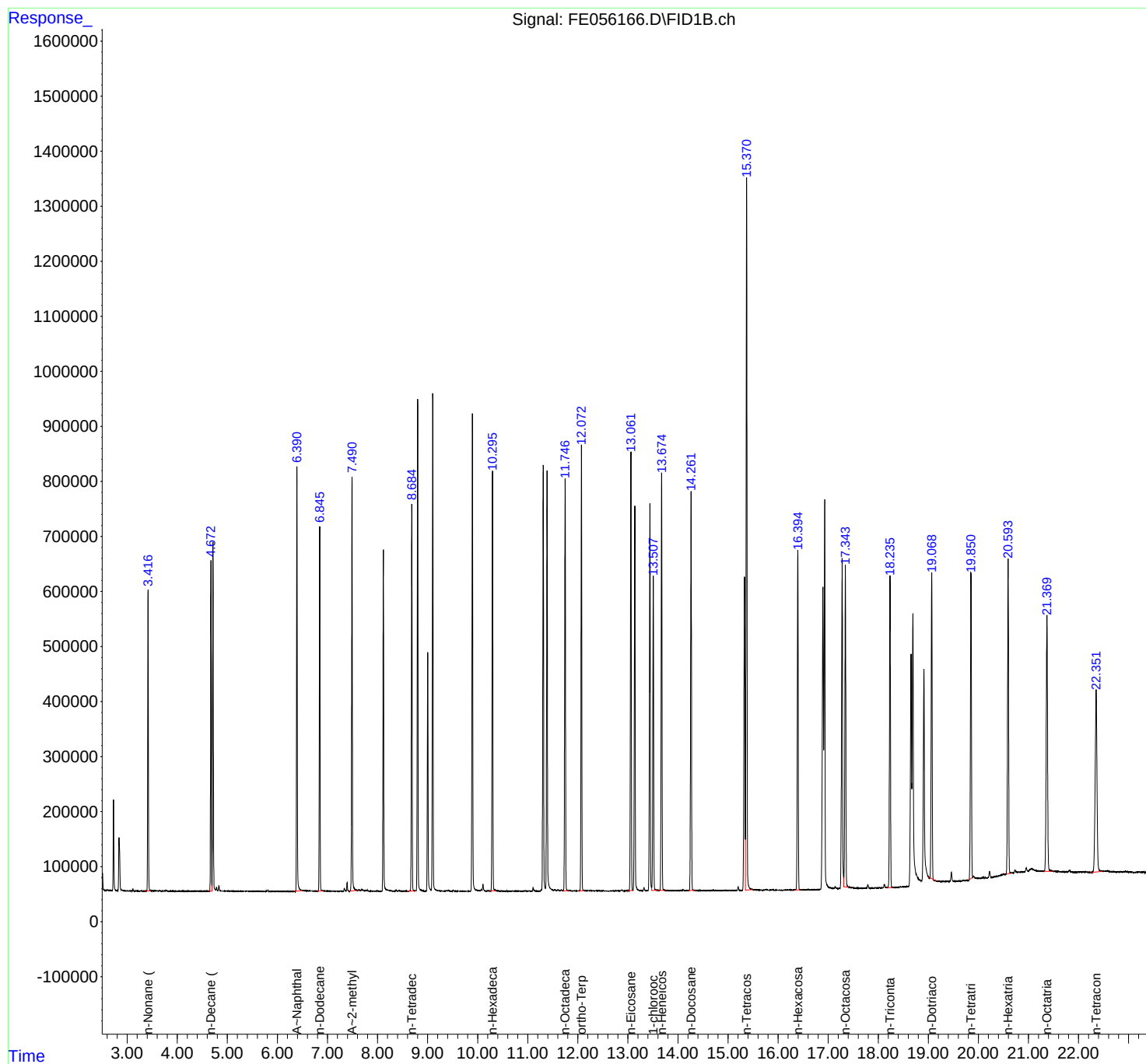
Instrument :
FID_E
ClientSampleId :
PB169970BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
Quant Time: Oct 03 23:13:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



rteres

Instrument :

FID_E

ClientSampleId :

PB169970BSD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE
Data File : FE056166.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 15:15
Sample : PB169970BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	3.417	3.359	3.474	BB	546702	5295726	31.45%	1.746%
2	4.673	4.620	4.693	BV	601030	5784914	34.35%	1.907%
3	4.713	4.693	4.769	VV	634784	6441548	38.25%	2.124%
4	6.390	6.329	6.505	BB	774159	7647933	45.42%	2.522%
5	6.845	6.785	6.915	BB	663115	6564780	38.98%	2.165%
6	7.490	7.439	7.604	BB	751907	7553612	44.86%	2.491%
7	8.683	8.600	8.754	BB	702338	7318146	43.46%	2.413%
8	8.801	8.755	8.900	BB	893147	9043839	53.71%	2.982%
9	9.102	9.069	9.207	VB	901352	9211246	54.70%	3.037%
10	9.895	9.829	9.999	BB	865888	9357760	55.57%	3.085%
11	10.296	10.235	10.375	BB	761822	8237662	48.92%	2.716%
12	11.309	11.222	11.354	BV	772142	8838564	52.49%	2.914%
13	11.385	11.354	11.470	VBA	762083	8643880	51.33%	2.850%
14	11.746	11.700	11.819	BB	752115	8854025	52.58%	2.919%
15	12.072	12.009	12.134	BB	810136	8478477	50.35%	2.796%
16	13.060	12.990	13.102	BV	794344	9458021	56.17%	3.118%
17	13.139	13.102	13.230	VBA	696248	8134803	48.31%	2.682%
18	13.440	13.372	13.473	BV	701753	8073919	47.95%	2.662%
19	13.507	13.473	13.585	VB	570600	6724146	39.93%	2.217%
20	13.674	13.614	13.750	BB	757189	9061061	53.81%	2.988%
21	14.262	14.202	14.337	BB	724085	8874445	52.70%	2.926%
22	15.328	15.260	15.346	BV	569305	7844495	46.58%	2.586%
23	15.371	15.346	15.495	VB	1289045	16839671	100.00%	5.552%
24	16.393	16.322	16.447	BB	616524	7857831	46.66%	2.591%
25	16.895	16.822	16.911	BV	543782	8548413	50.76%	2.819%
26	16.931	16.911	17.040	VB	703389	8938576	53.08%	2.947%
27	17.279	17.235	17.312	M	600027	8321382	49.42%	2.744%
28	17.343	17.312	17.419	M	587371	7772345	46.15%	2.563%
29	18.235	18.169	18.300	BB	567731	7643909	45.39%	2.520%
30	18.654	18.580	18.671	BV	419233	6402196	38.02%	2.111%
31	18.691	18.671	18.857	VV	486975	8523527	50.62%	2.810%

					rtres		
32	18.912	18.857	19.000	PBA	381229	6036691	35.85% 1.990%
33	19.067	19.000	19.162	BB	552621	770036	
34	19.852	19.800	19.887	BV	554576	805083	
35	20.594	20.550	20.664	BB	571416	832571	
36	21.369	21.300	21.494	BB	463619	864836	
37	22.352	22.250	22.482	BB	329304	8235299	48.90% 2.715%
Sum of corrected areas:						303288005	

Instrument :
FID_E
ClientSampleId :
PB169970BSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Aliphatic EPH 092425.M Sat Oct 04 00:15:28 2025

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	Newport		Date Received:		
Client Sample ID:	279887MS		SDG No.:	Q3277	
Lab Sample ID:	Q3262-08MS		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.4	
Sample Wt/Vol:	30.04	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 08:00	10/03/25 17:17	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	80.3	E	1	1.35	2.29	mg/kg	FE056170.D
Aliphatic C9-C28	Aliphatic C9-C28	7170	E	1	1.04	4.56	mg/kg	FE056170.D
Total AliphaticEPH	Total AliphaticEPH	7250			2.39	6.85	mg/kg	
Total EPH	Total EPH	7250			2.39	6.85	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	279887MS	SDG No.:	Q3277
Lab Sample ID:	Q3262-08MS	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056170.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7170	E	1.04	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	80.3	E	1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.5		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.9		40 - 140	46%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3262-08MS	Acq On:	03 Oct 2025 17:17
Client Sample ID:	279887MS	Operator:	YP\AJ
Data file:	FE056170.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.310	6.942	35615790	254.348	300	ug/ml
Aliphatic C12-C16	6.943	10.392	1029256474	6710	200	ug/ml
Aliphatic C16-C21	10.393	13.769	10192408892	61400	300	ug/ml
Aliphatic C21-C28	13.770	17.439	3827011712	25800	400	ug/ml
Aliphatic C28-C40	17.440	22.439	143606442	1050	600	ug/ml
Aliphatic EPH	3.310	22.439	15227899310	95200		ug/ml
ortho-Terphenyl (SURR)	12.066	12.066	4289162	22.86		ug/ml
1-chlorooctadecane (SURR)	13.491	13.491	3137165	22.48		ug/ml
Aliphatic C9-C28	3.310	17.439	15084292868	94200	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056170.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 17:17
 Operator : YP\AJ
 Sample : Q3262-08MS
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 279887MS

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/06/2025
 Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
 Quant Time: Oct 03 23:15:00 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.066	4289162	22.857 ug/mlm
Spiked Amount 50.000		Recovery =	45.71%
12) S 1-chlorooctadecane (S...	13.491	3137165	22.478 ug/ml
Spiked Amount 50.000		Recovery =	44.96%
Target Compounds			
1) T n-Nonane (C9)	3.411	4615436	33.691 ug/ml
2) T n-Decane (C10)	4.671	5710714	40.918 ug/ml
3) T A~Naphthalene (C11.7)	6.390	7958820	49.847 ug/ml
4) T n-Dodecane (C12)	6.846	7292071	50.806 ug/ml
5) T A~2-methylnaphthalene...	7.492	8742816	56.217 ug/ml
6) T n-Tetradecane (C14)	8.691	9688811	65.534 ug/ml
7) T n-Hexadecane (C16)	10.293	87999	0.554 ug/mlm
8) T n-Octadecane (C18)	11.751	3894023	22.989 ug/ml
10) T n-Eicosane (C20)	13.046	18849315	113.711 ug/ml
11) T n-Heneicosane (C21)	13.676	37973571	233.697 ug/ml
13) T n-Docosane (C22)	14.261	16603639	103.908 ug/ml
14) T n-Tetracosane (C24)	15.408	16290938	106.909 ug/ml
15) T n-Hexacosane (C26)	16.406	7176599	50.316 ug/ml
16) T n-Octacosane (C28)	17.348	7185820	51.583 ug/ml
17) T n-Tricontane (C30)	18.237	7184820	48.487 ug/ml
18) T n-Dotriacontane (C32)	19.069	7406663	49.643 ug/ml
19) T n-Tetratriacontane (C34)	19.854	7622523	53.888 ug/ml
20) T n-Hexatriacontane (C36)	20.595	7590965	59.133 ug/ml
21) T n-Octatriacontane (C38)	21.370	7814305	59.496 ug/ml
22) T n-Tetracontane (C40)	22.354	7459488	62.702 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056170.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 17:17
Operator : YP\AJ
Sample : Q3262-08MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

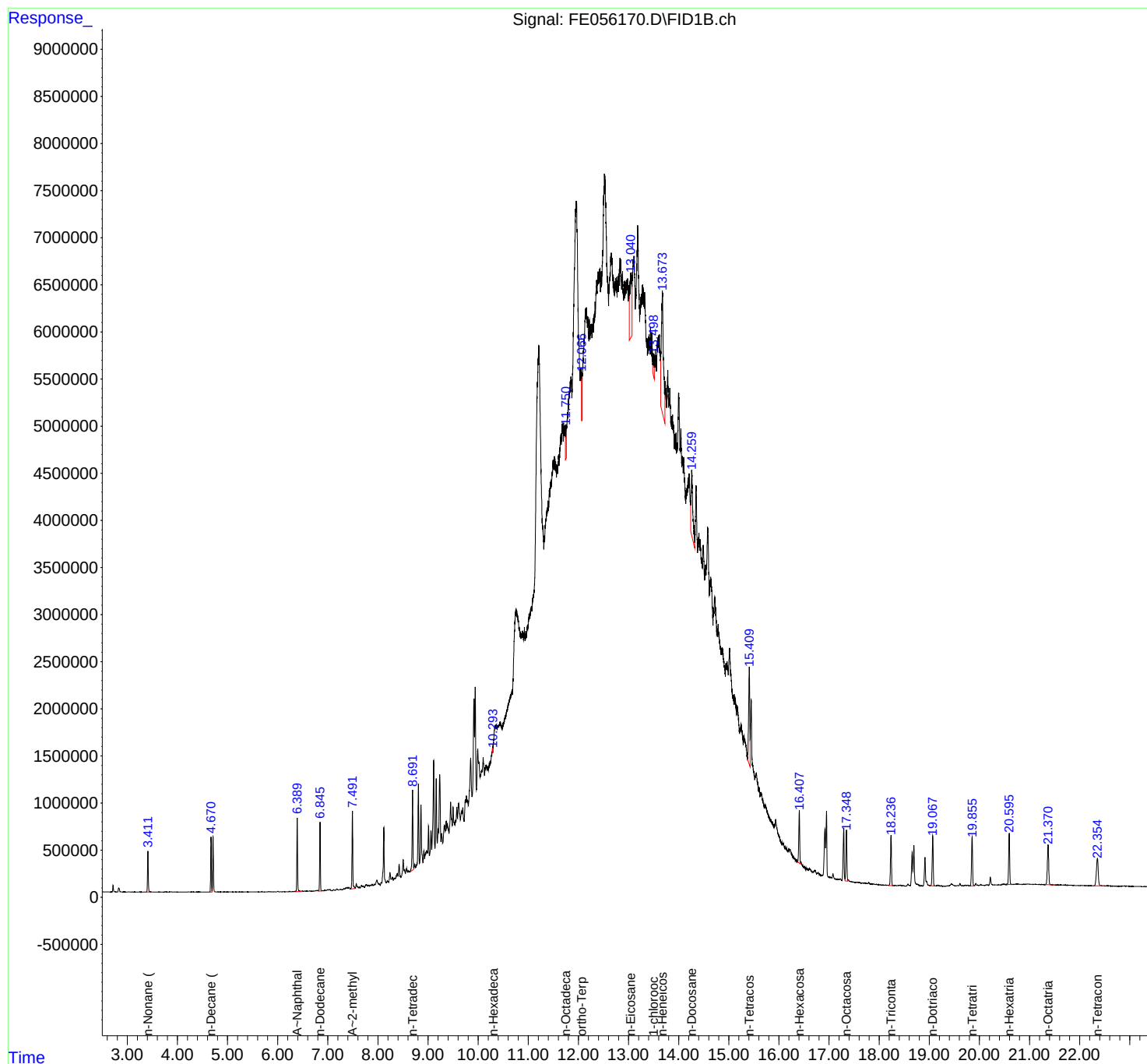
Instrument :
FID_E
ClientSampleId :
279887MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
Quant Time: Oct 03 23:15:00 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_E

ClientSampleId :

279887MS

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE
Data File : FE056170.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 17:17
Sample : Q3262-08MS
Misc :
ALS Vial : 17 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.828	2.805	2.877	PH	-23156	-2166607	-0.27%	-0.014%
2	2.897	2.877	2.937	PV	-42267	-1158422	-0.14%	-0.008%
3	2.948	2.937	2.971	PV	225	2584	0.00%	0.000%
4	2.982	2.971	3.000	PV	144	2085	0.00%	0.000%
5	3.018	3.000	3.087	VV	1542	29884	0.00%	0.000%
6	3.106	3.087	3.126	PV	1753	17089	0.00%	0.000%
7	3.144	3.126	3.168	VV	778	10369	0.00%	0.000%
8	3.195	3.168	3.214	VV	305	4812	0.00%	0.000%
9	3.239	3.214	3.247	VV	466	4574	0.00%	0.000%
10	3.276	3.247	3.363	VV	809	23100	0.00%	0.000%
11	3.411	3.363	3.524	PV	436397	4644276	0.58%	0.031%
12	3.556	3.524	3.575	VV	519	11243	0.00%	0.000%
13	3.590	3.575	3.610	VV	312	5229	0.00%	0.000%
14	3.639	3.610	3.683	VV	1129	23841	0.00%	0.000%
15	3.732	3.683	3.746	VV	743	19413	0.00%	0.000%
16	3.766	3.746	3.823	VV	1461	35108	0.00%	0.000%
17	3.855	3.823	3.870	VV	3241	45771	0.01%	0.000%
18	3.882	3.870	3.921	VV	2828	31744	0.00%	0.000%
19	3.944	3.921	3.981	VV	1327	25077	0.00%	0.000%
20	3.999	3.981	4.048	VV	2269	31001	0.00%	0.000%
21	4.060	4.048	4.081	VV	336	4806	0.00%	0.000%
22	4.112	4.081	4.165	VV	488	14583	0.00%	0.000%
23	4.209	4.165	4.222	PV	1159	17588	0.00%	0.000%
24	4.252	4.222	4.285	VV	1189	34560	0.00%	0.000%
25	4.302	4.285	4.348	VV	1170	24836	0.00%	0.000%
26	4.395	4.348	4.424	VV	1234	28646	0.00%	0.000%
27	4.438	4.424	4.535	VV	1224	31195	0.00%	0.000%
28	4.565	4.535	4.588	PV	305	4924	0.00%	0.000%
29	4.610	4.588	4.636	VV	400	5994	0.00%	0.000%
30	4.671	4.636	4.691	PV	586418	5718594	0.71%	0.038%
31	4.711	4.691	4.814	VV	588717	6173838	0.77%	0.041%

32	4.832	4.814	4.855	VV	1053	18058	0.00%	0.000%
33	4.886	4.855	4.930	VV	931	3076		
34	4.953	4.930	4.971	VV	1731	2501		
35	4.982	4.971	4.999	VV	843	1003		
36	5.039	4.999	5.050	VV	706	1595		
37	5.076	5.050	5.102	VV	1131	23042	0.00%	0.000%
38	5.143	5.102	5.165	VV	1576	31430	0.00%	0.000%
39	5.190	5.165	5.206	VV	859	13504	0.00%	0.000%
40	5.215	5.206	5.238	VV	515	7433	0.00%	0.000%
41	5.251	5.238	5.275	VV	811	8278	0.00%	0.000%
42	5.291	5.275	5.307	PV	388	3435	0.00%	0.000%
43	5.327	5.307	5.365	VV	1126	21454	0.00%	0.000%
44	5.379	5.365	5.405	VV	895	11562	0.00%	0.000%
45	5.428	5.405	5.444	PV	636	8181	0.00%	0.000%
46	5.460	5.444	5.473	VV	1409	14133	0.00%	0.000%
47	5.489	5.473	5.534	VV	1382	28492	0.00%	0.000%
48	5.552	5.534	5.573	VV	327	5026	0.00%	0.000%
49	5.617	5.573	5.640	PV	1284	22982	0.00%	0.000%
50	5.655	5.640	5.668	VV	922	10899	0.00%	0.000%
51	5.686	5.668	5.706	VV	2821	30384	0.00%	0.000%
52	5.732	5.706	5.775	VV	1183	22988	0.00%	0.000%
53	5.831	5.775	5.851	PV	3890	78770	0.01%	0.001%
54	5.868	5.851	5.904	VV	2513	34409	0.00%	0.000%
55	5.929	5.904	5.977	VV	1283	28230	0.00%	0.000%
56	6.001	5.977	6.032	VV	6891	89426	0.01%	0.001%
57	6.062	6.032	6.096	VV	1699	37323	0.00%	0.000%
58	6.124	6.096	6.165	PV	2331	53736	0.01%	0.000%
59	6.199	6.165	6.213	VV	1425	24367	0.00%	0.000%
60	6.247	6.213	6.270	VV	2998	62982	0.01%	0.000%
61	6.294	6.270	6.316	VV	2686	46914	0.01%	0.000%
62	6.351	6.316	6.363	VV	7811	112566	0.01%	0.001%
63	6.390	6.363	6.473	VV	783494	8094609	1.01%	0.053%
64	6.493	6.473	6.516	VV	9991	172836	0.02%	0.001%
65	6.541	6.516	6.559	VV	8375	156132	0.02%	0.001%
66	6.585	6.559	6.605	VV	8212	189872	0.02%	0.001%
67	6.641	6.605	6.659	VV	9230	221906	0.03%	0.001%
68	6.674	6.659	6.694	VV	6720	117732	0.01%	0.001%
69	6.717	6.694	6.733	VV	8034	146999	0.02%	0.001%
70	6.764	6.733	6.780	VV	12085	250284	0.03%	0.002%
71	6.796	6.780	6.812	VV	15431	229109	0.03%	0.002%
72	6.846	6.812	6.876	VV	733974	7542619	0.94%	0.050%
73	6.896	6.876	6.911	VV	11309	205780	0.03%	0.001%
74	6.939	6.911	6.968	VV	17455	423932	0.05%	0.003%
75	7.000	6.968	7.014	VV	22831	475560	0.06%	0.003%
76	7.043	7.014	7.065	VV	22337	529786	0.07%	0.003%
77	7.076	7.065	7.095	VV	12081	195708	0.02%	0.001%
78	7.118	7.095	7.143	VV	21017	450901	0.06%	0.003%
79	7.181	7.143	7.207	VV	28043	753661	0.09%	0.005%

Instrument :

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279887MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

					rteres			
80	7.222	7.207	7.233	VV	19783	288313	0.04%	0.002%
81	7.257	7.233	7.278	VV	24438	57084		
82	7.324	7.278	7.341	VV	33810	93825		
83	7.361	7.341	7.373	VV	38467	64049		
84	7.390	7.373	7.405	VV	44845	72673		
85	7.423	7.405	7.446	VV	44413	919993	0.12%	0.006%
86	7.492	7.446	7.545	VV	852289	10392951	1.30%	0.068%
87	7.569	7.545	7.612	VV	81632	2124387	0.27%	0.014%
88	7.625	7.612	7.640	VV	47925	696025	0.09%	0.005%
89	7.672	7.640	7.688	VV	66413	1480200	0.19%	0.010%
90	7.701	7.688	7.732	VV	55490	1315203	0.16%	0.009%
91	7.761	7.732	7.772	VV	70467	1459496	0.18%	0.010%
92	7.777	7.772	7.794	VV	67550	834534	0.10%	0.005%
93	7.810	7.794	7.827	VV	66772	1199217	0.15%	0.008%
94	7.846	7.827	7.860	VV	66416	1223886	0.15%	0.008%
95	7.889	7.860	7.902	VV	71002	1688571	0.21%	0.011%
96	7.932	7.902	7.943	VV	74436	1681292	0.21%	0.011%
97	7.978	7.943	8.012	VV	117792	3875939	0.48%	0.025%
98	8.025	8.012	8.045	VV	78409	1469734	0.18%	0.010%
99	8.064	8.045	8.074	VV	94072	1409202	0.18%	0.009%
100	8.117	8.074	8.170	VV	675710	12420314	1.55%	0.082%
101	8.189	8.170	8.210	VV	111580	2428389	0.30%	0.016%
102	8.241	8.210	8.265	VV	194738	4649979	0.58%	0.031%
103	8.288	8.265	8.306	VV	149013	3318317	0.41%	0.022%
104	8.324	8.306	8.337	VV	140472	2423502	0.30%	0.016%
105	8.384	8.337	8.401	VV	187325	6064287	0.76%	0.040%
106	8.423	8.401	8.459	VV	284504	6883011	0.86%	0.045%
107	8.504	8.459	8.521	VV	334178	8384279	1.05%	0.055%
108	8.530	8.521	8.547	VV	230275	3246566	0.41%	0.021%
109	8.569	8.547	8.604	VV	238550	7476027	0.93%	0.049%
110	8.614	8.604	8.642	VV	211116	4673599	0.58%	0.031%
111	8.691	8.642	8.717	VV	1071669	19566011	2.45%	0.129%
112	8.733	8.717	8.749	VV	282475	5101975	0.64%	0.034%
113	8.807	8.749	8.830	VV	1142422	22347452	2.79%	0.147%
114	8.858	8.830	8.897	VV	915941	19889323	2.49%	0.131%
115	8.916	8.897	8.932	VV	425922	7735286	0.97%	0.051%
116	8.967	8.932	8.991	VV	422122	14308411	1.79%	0.094%
117	9.009	8.991	9.029	VV	689289	11522267	1.44%	0.076%
118	9.058	9.029	9.073	VV	638629	13144414	1.64%	0.086%
119	9.111	9.073	9.137	VV	1386471	30015360	3.75%	0.197%
120	9.162	9.137	9.184	VV	1190928	21203862	2.65%	0.139%
121	9.232	9.184	9.258	VV	1234880	34905201	4.36%	0.229%
122	9.272	9.258	9.293	VV	609575	11831815	1.48%	0.078%
123	9.324	9.293	9.342	VV	684122	18298620	2.29%	0.120%
124	9.360	9.342	9.374	VV	732893	13516795	1.69%	0.089%
125	9.386	9.374	9.417	VV	711154	17241920	2.16%	0.113%
126	9.450	9.417	9.483	VV	941082	30107917	3.76%	0.198%

Instrument :

FID_E

ClientSampleId :

279887MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

					rtres			
127	9.499	9.483	9.534	VV	890925	23196222	2.90%	0.152%
128	9.574	9.534	9.588	VV	881529	2517342		
129	9.606	9.588	9.645	VV	913425	2885485		
130	9.668	9.645	9.679	VV	839081	1641125		
131	9.692	9.679	9.717	VV	872654	1860131		
132	9.765	9.717	9.803	VV	1004754	47996801	6.00%	0.315%
133	9.850	9.803	9.879	VV	1402579	51235838	6.41%	0.337%
134	9.915	9.879	9.927	VV	2026268	43339452	5.42%	0.285%
135	9.941	9.927	9.965	VV	2160312	37094653	4.64%	0.244%
136	9.991	9.965	10.037	VV	1500240	57223049	7.15%	0.376%
137	10.100	10.037	10.126	VV	1404269	68351908	8.55%	0.449%
138	10.163	10.126	10.177	VV	1331410	39451218	4.93%	0.259%
139	10.186	10.177	10.203	VV	1312073	20399987	2.55%	0.134%
140	10.235	10.203	10.243	VV	1367622	31880807	3.99%	0.209%
141	10.358	10.243	10.379	VV	1757350	129999887	16.25%	0.854%
142	10.435	10.379	10.478	VV	1784368	104065514	13.01%	0.684%
143	10.748	10.478	10.855	VV	2959668	517587995	64.71%	3.400%
144	10.882	10.855	10.904	VV	2737495	80499094	10.06%	0.529%
145	10.922	10.904	10.936	VV	2755410	51066642	6.38%	0.335%
146	10.952	10.936	10.961	VV	2735534	40368654	5.05%	0.265%
147	11.208	10.961	11.308	VV	5775910	799820780	100.00%	5.253%
148	11.494	11.308	11.506	VV	4539436	489415581	61.19%	3.215%
149	11.521	11.506	11.562	VV	4584698	150756937	18.85%	0.990%
150	11.573	11.562	11.584	VV	4472626	59466231	7.43%	0.391%
151	11.678	11.584	11.698	VV	4917115	323127280	40.40%	2.122%
152	11.727	11.698	11.737	VV	4927435	115637482	14.46%	0.760%
153	11.853	11.737	11.871	VV	5415046	413642141	51.72%	2.717%
154	11.960	11.871	12.059	VV	7237885	699749739	87.49%	4.596%
155	12.158	12.059	12.208	VV	6146691	521879352	65.25%	3.428%
156	12.218	12.208	12.231	VV	6023033	82618231	10.33%	0.543%
157	12.264	12.231	12.274	VV	5991523	152198048	19.03%	1.000%
158	12.363	12.274	12.370	VV	6424606	354276241	44.29%	2.327%
159	12.430	12.370	12.440	VV	6584981	272477681	34.07%	1.790%
160	12.519	12.440	12.615	VV	7576071	712399884	89.07%	4.679%
161	12.659	12.615	12.719	VV	6709316	410342994	51.30%	2.695%
162	12.746	12.719	12.771	VV	6453798	199934102	25.00%	1.313%
163	12.786	12.771	12.795	VV	6474670	91188171	11.40%	0.599%
164	12.829	12.795	12.875	VV	6673233	311550938	38.95%	2.046%
165	12.880	12.875	12.901	VV	6507280	102292742	12.79%	0.672%
166	12.980	12.901	12.995	VV	6456699	357155234	44.65%	2.346%
167	13.002	12.995	13.015	VV	6394150	76017946	9.50%	0.499%
168	13.042	13.015	13.066	VV	6532434	200258409	25.04%	1.315%
169	13.107	13.066	13.147	VV	6712293	315923217	39.50%	2.075%
170	13.183	13.147	13.222	VV	6964515	295450284	36.94%	1.941%
171	13.272	13.222	13.389	VV	6396372	610457600	76.32%	4.010%
172	13.396	13.389	13.483	VV	5857403	324224195	40.54%	2.130%
173	13.492	13.483	13.515	VV	5657566	107836571	13.48%	0.708%
174	13.533	13.515	13.561	VV	5711253	155862674	19.49%	1.024%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

					rteres				
175	13.595	13.561	13.638	VV	5853924	268315558	33.55%	1.762%	
176	13.676	13.638	13.725	VV	6336475	29880362			
177	13.730	13.725	13.765	VV	5349876	12574112			
178	13.783	13.765	13.805	VV	5501005	12699125			
179	13.823	13.805	13.867	VV	5284626	19075964			
180	13.877	13.867	13.967	VV	5029385	286893221	35.87%	1.884%	
181	14.000	13.967	14.032	VV	5266910	192757750	24.10%	1.266%	
182	14.045	14.032	14.087	VV	4872187	153548555	19.20%	1.009%	
183	14.097	14.087	14.140	VV	4571613	138782785	17.35%	0.912%	
184	14.156	14.140	14.164	VV	4230704	60917633	7.62%	0.400%	
185	14.210	14.164	14.238	VV	4401691	187951461	23.50%	1.235%	
186	14.261	14.238	14.320	VV	4431789	200294526	25.04%	1.316%	
187	14.347	14.320	14.378	VV	4277305	136048868	17.01%	0.894%	
188	14.404	14.378	14.422	VV	3771814	98146720	12.27%	0.645%	
189	14.429	14.422	14.471	VV	3691558	103375782	12.92%	0.679%	
190	14.490	14.471	14.520	VV	3633539	103809452	12.98%	0.682%	
191	14.531	14.520	14.545	VV	3400046	49495793	6.19%	0.325%	
192	14.578	14.545	14.613	VV	3809674	143206078	17.90%	0.941%	
193	14.638	14.613	14.698	VV	3306456	158952195	19.87%	1.044%	
194	14.720	14.698	14.785	VV	3064839	150055359	18.76%	0.986%	
195	14.788	14.785	14.845	VV	2791274	94924967	11.87%	0.623%	
196	14.868	14.845	14.931	VV	2550076	127106142	15.89%	0.835%	
197	14.965	14.931	14.990	VV	2399511	82354146	10.30%	0.541%	
198	15.014	14.990	15.152	VV	2525765	209636122	26.21%	1.377%	
199	15.164	15.152	15.215	VV	1945292	69100653	8.64%	0.454%	
200	15.226	15.215	15.234	VV	1701917	19266271	2.41%	0.127%	
201	15.246	15.234	15.288	VV	1740551	54264949	6.78%	0.356%	
202	15.305	15.288	15.370	VV	1617235	75268317	9.41%	0.494%	
203	15.408	15.370	15.427	VV	2346431	61897107	7.74%	0.407%	
204	15.445	15.427	15.519	VV	1983211	80153501	10.02%	0.526%	
205	15.548	15.519	15.595	VV	1231311	52597468	6.58%	0.345%	
206	15.608	15.595	15.628	VV	1071974	20578019	2.57%	0.135%	
207	15.638	15.628	15.714	VV	1019854	48884568	6.11%	0.321%	
208	15.724	15.714	15.898	VV	888416	84753225	10.60%	0.557%	
209	15.934	15.898	16.053	VV	736073	56002970	7.00%	0.368%	
210	16.060	16.053	16.075	VV	490619	6300827	0.79%	0.041%	
211	16.085	16.075	16.148	VV	476598	19631279	2.45%	0.129%	
212	16.154	16.148	16.175	VV	426945	6721775	0.84%	0.044%	
213	16.211	16.175	16.371	VV	417155	41265824	5.16%	0.271%	
214	16.406	16.371	16.433	VV	835375	17204795	2.15%	0.113%	
215	16.440	16.433	16.587	VV	278304	21394850	2.67%	0.141%	
216	16.609	16.587	16.688	VV	212638	11572418	1.45%	0.076%	
217	16.722	16.688	16.757	VV	190431	7347924	0.92%	0.048%	
218	16.783	16.757	16.860	VV	168732	9234214	1.15%	0.061%	
219	16.917	16.860	16.932	VV	627462	14232707	1.78%	0.093%	
220	16.949	16.932	17.031	VV	800583	15497573	1.94%	0.102%	
221	17.041	17.031	17.057	VV	117086	1747612	0.22%	0.011%	

Instrument :

FID_E

ClientSampleId :

279887MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

222	17.079	17.057	17.181	VV	155000	8196312	1.02%	0.054%
223	17.188	17.181	17.201	VV	96029	114125		
224	17.225	17.201	17.253	VV	102857	295452		
225	17.293	17.253	17.318	VV	645690	1083346		
226	17.348	17.318	17.375	VV	616058	982262		
227	17.384	17.375	17.441	VV	91138	3136231	0.39%	0.021%
228	17.455	17.441	17.476	VV	70263	1428832	0.18%	0.009%
229	17.489	17.476	17.519	VV	65949	1637147	0.20%	0.011%
230	17.557	17.519	17.659	VV	63214	5014120	0.63%	0.033%
231	17.676	17.659	17.702	VV	55414	1391159	0.17%	0.009%
232	17.715	17.702	17.767	VV	54925	2013006	0.25%	0.013%
233	17.793	17.767	17.820	VV	58738	1639383	0.20%	0.011%
234	17.843	17.820	17.866	VV	45176	1214846	0.15%	0.008%
235	17.882	17.866	17.911	VV	46130	1143145	0.14%	0.008%
236	17.932	17.911	17.962	VV	41249	1219990	0.15%	0.008%
237	17.976	17.962	18.001	VV	38662	854026	0.11%	0.006%
238	18.021	18.001	18.064	VV	35863	1246080	0.16%	0.008%
239	18.080	18.064	18.110	VV	32451	878474	0.11%	0.006%
240	18.127	18.110	18.148	VV	32255	694179	0.09%	0.005%
241	18.159	18.148	18.164	VV	30454	293733	0.04%	0.002%
242	18.176	18.164	18.191	VV	31122	494877	0.06%	0.003%
243	18.237	18.191	18.291	VV	563764	8764271	1.10%	0.058%
244	18.321	18.291	18.347	VV	28986	878372	0.11%	0.006%
245	18.370	18.347	18.381	VV	25712	500023	0.06%	0.003%
246	18.399	18.381	18.411	VV	28527	500458	0.06%	0.003%
247	18.427	18.411	18.454	VV	28907	674447	0.08%	0.004%
248	18.477	18.454	18.525	VV	26518	974290	0.12%	0.006%
249	18.573	18.525	18.618	VV	39687	1529120	0.19%	0.010%
250	18.658	18.618	18.673	VV	377792	6065121	0.76%	0.040%
251	18.692	18.673	18.871	VV	449207	9596140	1.20%	0.063%
252	18.914	18.871	19.024	VV	326143	7197747	0.90%	0.047%
253	19.069	19.024	19.145	VV	552112	8873960	1.11%	0.058%
254	19.165	19.145	19.182	VV	26799	519931	0.07%	0.003%
255	19.191	19.182	19.222	VV	23813	521546	0.07%	0.003%
256	19.237	19.222	19.268	VV	20797	505248	0.06%	0.003%
257	19.279	19.268	19.294	VV	16986	258622	0.03%	0.002%
258	19.360	19.294	19.379	VV	20824	892501	0.11%	0.006%
259	19.438	19.379	19.531	VV	39331	2314708	0.29%	0.015%
260	19.563	19.531	19.587	VV	23214	698507	0.09%	0.005%
261	19.612	19.587	19.654	VV	40570	1057991	0.13%	0.007%
262	19.666	19.654	19.682	VV	20192	341756	0.04%	0.002%
263	19.721	19.682	19.744	VV	26984	821747	0.10%	0.005%
264	19.771	19.744	19.804	VV	26892	765813	0.10%	0.005%
265	19.854	19.804	19.904	VV	534351	8708291	1.09%	0.057%
266	19.927	19.904	19.995	VV	42529	1468941	0.18%	0.010%
267	20.023	19.995	20.095	VV	31052	1478879	0.18%	0.010%
268	20.151	20.095	20.185	VV	29521	1341678	0.17%	0.009%
269	20.219	20.185	20.294	VV	107737	2905150	0.36%	0.019%

Instrument :

FID_E

ClientSampleId :

279887MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

					rtres			
270	20.300	20.294	20.318	VV	26573	365919	0.05%	0.002%
271	20.324	20.318	20.351	VV	26126	51611		
272	20.365	20.351	20.421	VV	27033	108921		
273	20.488	20.421	20.525	VV	35296	190013		
274	20.595	20.525	20.643	VV	567550	974451		
275	20.668	20.643	20.689	VV	31650	867998	0.11%	0.006%
276	20.734	20.689	20.748	VV	35877	1158299	0.14%	0.008%
277	20.765	20.748	20.814	VV	37063	1322227	0.17%	0.009%
278	20.833	20.814	20.899	VV	31306	1567192	0.20%	0.010%
279	20.917	20.899	20.938	VV	31668	712786	0.09%	0.005%
280	20.956	20.938	20.981	VV	34037	843808	0.11%	0.006%
281	20.989	20.981	21.021	VV	33112	762861	0.10%	0.005%
282	21.050	21.021	21.085	VV	30702	1146233	0.14%	0.008%
283	21.088	21.085	21.102	VV	30541	314842	0.04%	0.002%
284	21.122	21.102	21.148	VV	30652	820349	0.10%	0.005%
285	21.158	21.148	21.187	VV	28763	660205	0.08%	0.004%
286	21.202	21.187	21.254	VV	28084	1107164	0.14%	0.007%
287	21.265	21.254	21.315	VV	27643	964355	0.12%	0.006%
288	21.370	21.315	21.471	VV	450435	10053119	1.26%	0.066%
289	21.485	21.471	21.562	VV	22565	1175963	0.15%	0.008%
290	21.576	21.562	21.588	VV	21343	329638	0.04%	0.002%
291	21.599	21.588	21.641	VV	20818	657560	0.08%	0.004%
292	21.651	21.641	21.674	VV	20514	399005	0.05%	0.003%
293	21.686	21.674	21.792	VV	20672	1333519	0.17%	0.009%
294	21.820	21.792	21.871	VV	18737	818982	0.10%	0.005%
295	21.881	21.871	21.925	VV	15803	476943	0.06%	0.003%
296	21.956	21.925	21.981	VV	14380	468719	0.06%	0.003%
297	22.020	21.981	22.042	VV	14334	511377	0.06%	0.003%
298	22.061	22.042	22.117	VV	14319	600932	0.08%	0.004%
299	22.141	22.117	22.168	VV	12490	360258	0.05%	0.002%
300	22.173	22.168	22.185	VV	11788	115804	0.01%	0.001%
301	22.195	22.185	22.201	VV	11643	112082	0.01%	0.001%
302	22.214	22.201	22.281	VV	11584	515139	0.06%	0.003%
303	22.354	22.281	22.451	VBA	303083	8494939	1.06%	0.056%
Sum of corrected areas: 15224668787								

Instrument :

FID_E

ClientSampleId :

279887MS

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

Aliphatic EPH 092425.M Sat Oct 04 00:47:38 2025

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	Newport		Date Received:		
Client Sample ID:	279887MSD		SDG No.:	Q3277	
Lab Sample ID:	Q3262-08MSD		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	87.4	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
10/03/25 08:00	10/03/25 17:47	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	79.7	E	1	1.35	2.29	mg/kg	FE056171.D
Aliphatic C9-C28	Aliphatic C9-C28	7070	E	1	1.04	4.57	mg/kg	FE056171.D
Total AliphaticEPH	Total AliphaticEPH	7150			2.39	6.86	mg/kg	
Total EPH	Total EPH	7150			2.39	6.86	mg/kg	

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

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Newport	Date Received:	
Client Sample ID:	279887MSD	SDG No.:	Q3277
Lab Sample ID:	Q3262-08MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056171.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7070	E	1.04	4.57	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	79.7	E	1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	49.8		40 - 140	100%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	55.1		40 - 140	110%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3262-08MSD	Acq On:	03 Oct 2025 17:47
Client Sample ID:	279887MSD	Operator:	YP\AJ
Data file:	FE056171.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.310	6.942	36101694	257.818	300	ug/ml
Aliphatic C12-C16	6.943	10.392	1050118786	6850	200	ug/ml
Aliphatic C16-C21	10.393	13.769	9921464061	59800	300	ug/ml
Aliphatic C21-C28	13.770	17.439	3826465767	25800	400	ug/ml
Aliphatic C28-C40	17.440	22.439	142360643	1040	600	ug/ml
Aliphatic EPH	3.310	22.439	14976510951	93700		ug/ml
ortho-Terphenyl (SURR)	12.064	12.064	10338131	55.09		ug/ml
1-chlorooctadecane (SURR)	13.519	13.519	6950689	49.8		ug/ml
Aliphatic C9-C28	3.310	17.439	14834150308	92700	1200	ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
 Data File : FE056171.D
 Signal(s) : FID1B.ch
 Acq On : 03 Oct 2025 17:47
 Operator : YP\AJ
 Sample : Q3262-08MSD
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 FID_E
 ClientSampleId :
 279887MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/06/2025
 Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
 Quant Time: Oct 03 23:15:25 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
 Quant Title : GC Extractables
 QLast Update : Wed Sep 24 12:55:37 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)	12.064	10338131	55.092 ug/ml
Spiked Amount 50.000		Recovery =	110.18%
12) S 1-chlorooctadecane (S...	13.519	6950689	49.802 ug/ml
Spiked Amount 50.000		Recovery =	99.60%
Target Compounds			
1) T n-Nonane (C9)	3.411	4707554	34.364 ug/ml
2) T n-Decane (C10)	4.671	5820344	41.704 ug/ml
3) T A~Naphthalene (C11.7)	6.390	8036334	50.333 ug/ml
4) T n-Dodecane (C12)	6.846	7404222	51.587 ug/ml
5) T A~2-methylnaphthalene...	7.492	8797009	56.566 ug/ml
6) T n-Tetradecane (C14)	8.691	9697561	65.593 ug/ml
7) T n-Hexadecane (C16)	10.338	11531771	72.569 ug/ml
8) T n-Octadecane (C18)	11.737	4473728	26.412 ug/ml
10) T n-Eicosane (C20)	13.039	10549374	63.641 ug/ml
11) T n-Heneicosane (C21)	13.672	43780120	269.431 ug/ml
13) T n-Docosane (C22)	14.263	16960220	106.140 ug/ml
14) T n-Tetracosane (C24)	15.406	16246905	106.620 ug/ml
15) T n-Hexacosane (C26)	16.405	6859429	48.092 ug/mlm
16) T n-Octacosane (C28)	17.347	7131737	51.195 ug/mlm
17) T n-Tricontane (C30)	18.236	7148741	48.243 ug/ml
18) T n-Dotriacontane (C32)	19.069	7421384	49.742 ug/ml
19) T n-Tetratriacontane (C34)	19.854	7670740	54.229 ug/ml
20) T n-Hexatriacontane (C36)	20.595	7620447	59.363 ug/ml
21) T n-Octatriacontane (C38)	21.371	7835451	59.657 ug/ml
22) T n-Tetracontane (C40)	22.353	7597081	63.859 ug/ml

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE100325AL\
Data File : FE056171.D
Signal(s) : FID1B.ch
Acq On : 03 Oct 2025 17:47
Operator : YP\AJ
Sample : Q3262-08MSD
Misc :
ALS Vial : 18 Sample Multiplier: 1

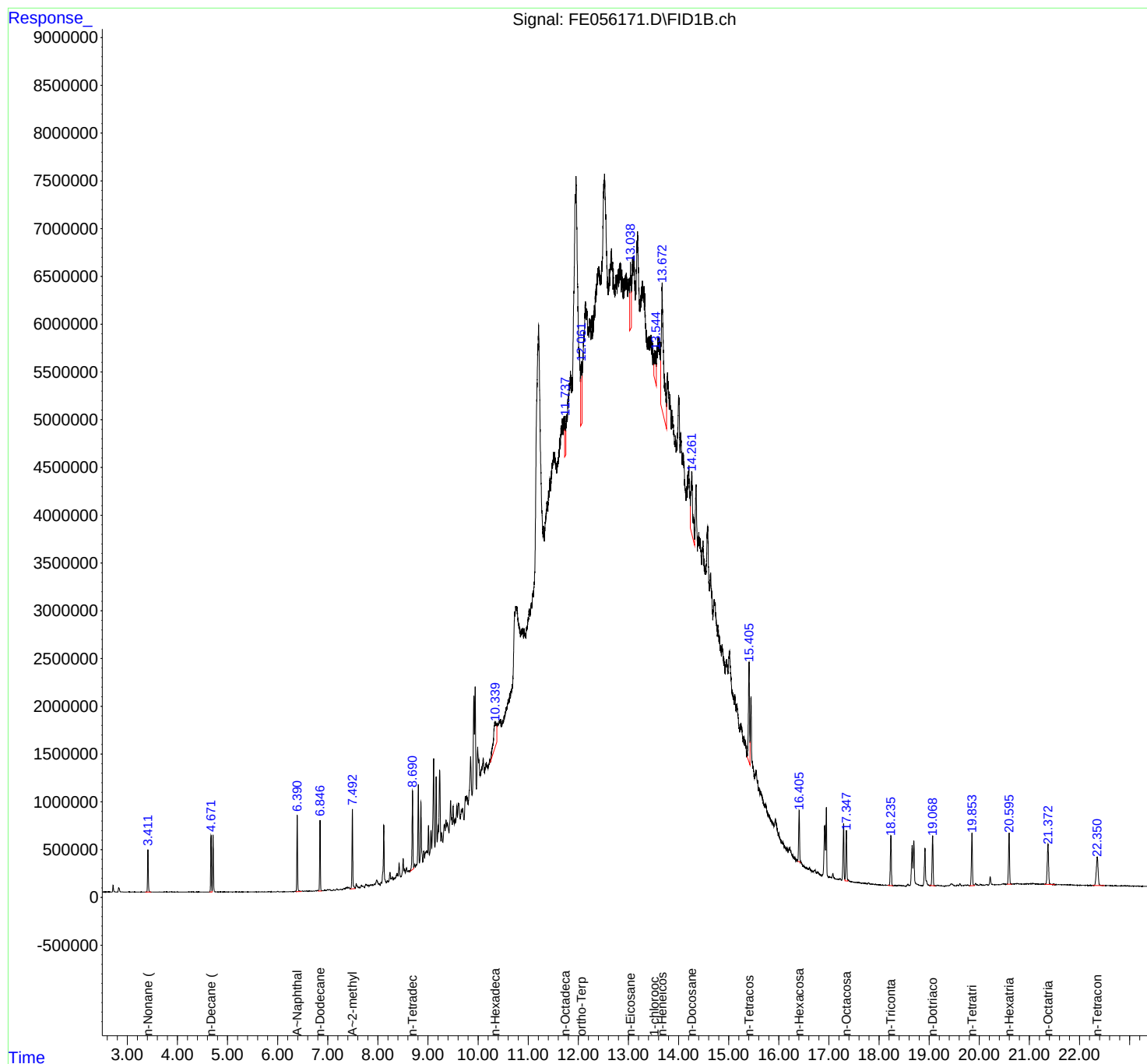
Instrument :
FID_E
ClientSampleId :
279887MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/06/2025
Supervised By :mohammad ahmed 10/06/2025

Integration File: autoint1.e
Quant Time: Oct 03 23:15:25 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M
Quant Title : GC Extractables
QLast Update : Wed Sep 24 12:55:37 2025
Response via : Initial Calibration
Integrator: ChemStation

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



Instrument :

FID_E

ClientSampleId :

279887MSD

rteres

Area Percent Report

Manual IntegrationsAPPROVED

Data Path : Z:\pestpcbsrv\HPCHEM1\FID_E\Data\FE

Data File : FE056171.D

Signal(s) : FID1B.ch

Acq On : 03 Oct 2025 17:47

Sample : Q3262-08MSD

Misc :

ALS Vial : 18 Sample Multiplier: 1

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID_E\methods\Aliphatic EPH 092425.M

Title : GC Extractables

Signal : FID1B.ch

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	2.828	2.804	2.877	PH	-22957	-2250233	-0.34%	-0.0015%
2	2.898	2.877	2.934	PV	-42104	-1144200	-0.17%	-0.0008%
3	2.953	2.934	2.971	PV	224	2485	0.00%	0.0000%
4	2.982	2.971	3.000	PV	245	2161	0.00%	0.0000%
5	3.019	3.000	3.087	VV	1625	28684	0.00%	0.0000%
6	3.107	3.087	3.127	PV	1661	16314	0.00%	0.0000%
7	3.146	3.127	3.174	VV	850	11308	0.00%	0.0000%
8	3.197	3.174	3.219	VV	324	4708	0.00%	0.0000%
9	3.276	3.219	3.302	PV	822	22364	0.00%	0.0000%
10	3.310	3.302	3.332	VV	341	3927	0.00%	0.0000%
11	3.341	3.332	3.365	VV	81	979	0.00%	0.0000%
12	3.411	3.365	3.521	PV	445421	4735102	0.72%	0.031%
13	3.557	3.521	3.581	VV	548	12253	0.00%	0.0000%
14	3.594	3.581	3.613	VV	299	4103	0.00%	0.0000%
15	3.639	3.613	3.684	VV	1098	22484	0.00%	0.0000%
16	3.733	3.684	3.746	VV	759	18993	0.00%	0.0000%
17	3.766	3.746	3.823	VV	1560	37127	0.01%	0.0000%
18	3.856	3.823	3.871	VV	3353	46880	0.01%	0.0000%
19	3.883	3.871	3.918	VV	2711	30536	0.00%	0.0000%
20	3.944	3.918	3.979	VV	1287	25532	0.00%	0.0000%
21	3.999	3.979	4.048	VV	2227	33122	0.01%	0.0000%
22	4.062	4.048	4.077	VV	294	4170	0.00%	0.0000%
23	4.123	4.077	4.164	VV	545	16456	0.00%	0.0000%
24	4.211	4.164	4.235	PV	1233	24413	0.00%	0.0000%
25	4.252	4.235	4.283	VV	1216	27022	0.00%	0.0000%
26	4.303	4.283	4.344	VV	1128	25197	0.00%	0.0000%
27	4.396	4.344	4.424	VV	1306	29765	0.00%	0.0000%
28	4.438	4.424	4.458	VV	1256	17887	0.00%	0.0000%
29	4.467	4.458	4.541	VV	574	13508	0.00%	0.0000%
30	4.565	4.541	4.593	PV	330	5508	0.00%	0.0000%
31	4.611	4.593	4.641	PV	486	6237	0.00%	0.0000%

32	4.671	4.641	4.691	VV	593077	5827821	0.88%	0.039%
33	4.712	4.691	4.813	VV	598867	627436		
34	4.832	4.813	4.855	VV	1168	1957		
35	4.886	4.855	4.908	VV	964	2294		
36	4.916	4.908	4.931	VV	677	838		
37	4.954	4.931	4.971	VV	1775	25313	0.00%	0.000%
38	4.982	4.971	4.999	VV	1010	11201	0.00%	0.000%
39	5.038	4.999	5.051	VV	784	17745	0.00%	0.000%
40	5.077	5.051	5.102	VV	1185	24342	0.00%	0.000%
41	5.143	5.102	5.168	VV	1691	33498	0.01%	0.000%
42	5.190	5.168	5.205	VV	950	13200	0.00%	0.000%
43	5.217	5.205	5.236	VV	536	8767	0.00%	0.000%
44	5.251	5.236	5.273	VV	815	9631	0.00%	0.000%
45	5.292	5.273	5.311	PV	385	4908	0.00%	0.000%
46	5.328	5.311	5.361	VV	1296	22454	0.00%	0.000%
47	5.379	5.361	5.406	VV	925	14231	0.00%	0.000%
48	5.428	5.406	5.444	PV	599	8952	0.00%	0.000%
49	5.460	5.444	5.473	VV	1505	14837	0.00%	0.000%
50	5.489	5.473	5.534	VV	1431	29836	0.00%	0.000%
51	5.548	5.534	5.574	VV	389	5776	0.00%	0.000%
52	5.592	5.574	5.602	PV	619	6196	0.00%	0.000%
53	5.617	5.602	5.640	VV	1364	17940	0.00%	0.000%
54	5.656	5.640	5.669	VV	1009	10506	0.00%	0.000%
55	5.687	5.669	5.706	VV	2828	30451	0.00%	0.000%
56	5.732	5.706	5.770	VV	1210	23512	0.00%	0.000%
57	5.831	5.770	5.851	PV	3886	79177	0.01%	0.001%
58	5.867	5.851	5.904	VV	2484	33545	0.01%	0.000%
59	5.930	5.904	5.975	VV	1206	25008	0.00%	0.000%
60	6.001	5.975	6.031	VV	7077	88145	0.01%	0.001%
61	6.063	6.031	6.097	VV	1710	35843	0.01%	0.000%
62	6.125	6.097	6.159	PV	2265	50751	0.01%	0.000%
63	6.201	6.159	6.213	VV	1325	25019	0.00%	0.000%
64	6.247	6.213	6.269	VV	3053	61071	0.01%	0.000%
65	6.295	6.269	6.315	VV	2601	44953	0.01%	0.000%
66	6.352	6.315	6.363	VV	7855	113323	0.02%	0.001%
67	6.390	6.363	6.473	VV	806272	8174360	1.24%	0.054%
68	6.493	6.473	6.516	VV	10116	169524	0.03%	0.001%
69	6.541	6.516	6.558	VV	8387	154600	0.02%	0.001%
70	6.585	6.558	6.605	VV	8115	188789	0.03%	0.001%
71	6.641	6.605	6.659	VV	9247	220930	0.03%	0.001%
72	6.675	6.659	6.693	VV	6712	112588	0.02%	0.001%
73	6.717	6.693	6.733	VV	7831	147195	0.02%	0.001%
74	6.764	6.733	6.780	VV	12021	248686	0.04%	0.002%
75	6.796	6.780	6.811	VV	15471	221604	0.03%	0.001%
76	6.846	6.811	6.877	VV	749137	7653016	1.16%	0.051%
77	6.897	6.877	6.912	VV	11169	206126	0.03%	0.001%
78	6.939	6.912	6.968	VV	17146	419857	0.06%	0.003%
79	6.999	6.968	7.014	VV	22702	474839	0.07%	0.003%

Instrument :

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Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

					rtres			
80	7.043	7.014	7.065	VV	22871	532588	0.08%	0.004%
81	7.076	7.065	7.091	VV	12053	17242		
82	7.119	7.091	7.144	VV	21071	47832		
83	7.181	7.144	7.207	VV	28196	75143		
84	7.222	7.207	7.233	VV	19808	28389		
85	7.257	7.233	7.279	VV	24139	578331	0.09%	0.004%
86	7.324	7.279	7.341	VV	33518	934624	0.14%	0.006%
87	7.361	7.341	7.373	VV	38883	633589	0.10%	0.004%
88	7.390	7.373	7.405	VV	45463	744872	0.11%	0.005%
89	7.423	7.405	7.446	VV	44302	916224	0.14%	0.006%
90	7.492	7.446	7.544	VV	856651	10445372	1.58%	0.069%
91	7.569	7.544	7.613	VV	81618	2161025	0.33%	0.014%
92	7.626	7.613	7.641	VV	47646	694200	0.10%	0.005%
93	7.673	7.641	7.688	VV	66233	1478600	0.22%	0.010%
94	7.700	7.688	7.732	VV	55481	1330835	0.20%	0.009%
95	7.762	7.732	7.772	VV	71103	1436001	0.22%	0.009%
96	7.778	7.772	7.795	VV	68108	868189	0.13%	0.006%
97	7.810	7.795	7.827	VV	66969	1179741	0.18%	0.008%
98	7.848	7.827	7.860	VV	67723	1257704	0.19%	0.008%
99	7.889	7.860	7.902	VV	71613	1679117	0.25%	0.011%
100	7.932	7.902	7.943	VV	73587	1657759	0.25%	0.011%
101	7.977	7.943	8.012	VV	117682	3927760	0.59%	0.026%
102	8.026	8.012	8.045	VV	78551	1448898	0.22%	0.010%
103	8.064	8.045	8.074	VV	93676	1399748	0.21%	0.009%
104	8.117	8.074	8.169	VV	691100	12475054	1.89%	0.083%
105	8.189	8.169	8.211	VV	112647	2533968	0.38%	0.017%
106	8.242	8.211	8.264	VV	197014	4616415	0.70%	0.031%
107	8.288	8.264	8.306	VV	150588	3329939	0.50%	0.022%
108	8.324	8.306	8.338	VV	139792	2503175	0.38%	0.017%
109	8.383	8.338	8.401	VV	186449	6050151	0.91%	0.040%
110	8.423	8.401	8.458	VV	288552	6831081	1.03%	0.045%
111	8.504	8.458	8.521	VV	338601	8418444	1.27%	0.056%
112	8.531	8.521	8.547	VV	232767	3306857	0.50%	0.022%
113	8.568	8.547	8.624	VV	241369	10010364	1.51%	0.066%
114	8.634	8.624	8.644	VV	212319	2508928	0.38%	0.017%
115	8.691	8.644	8.717	VV	1050055	19386667	2.93%	0.128%
116	8.734	8.717	8.749	VV	283820	5044822	0.76%	0.033%
117	8.806	8.749	8.829	VV	1123100	22353122	3.38%	0.148%
118	8.858	8.829	8.896	VV	924916	19941521	3.01%	0.132%
119	8.916	8.896	8.932	VV	416400	7851645	1.19%	0.052%
120	8.971	8.932	8.989	VV	420777	13913802	2.10%	0.092%
121	9.009	8.989	9.028	VV	680427	11907064	1.80%	0.079%
122	9.059	9.028	9.074	VV	631548	13372975	2.02%	0.088%
123	9.111	9.074	9.137	VV	1375310	29907896	4.52%	0.198%
124	9.162	9.137	9.183	VV	1190840	21003913	3.17%	0.139%
125	9.232	9.183	9.257	VV	1269174	35169682	5.31%	0.233%
126	9.272	9.257	9.294	VV	602340	12345073	1.87%	0.082%

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					rt	Area	Area%	Area%
127	9.325	9.294	9.342	VV	686250	17849143	2.70%	0.118%
128	9.359	9.342	9.375	VV	742947	1369732		
129	9.388	9.375	9.417	VV	710342	1714556		
130	9.451	9.417	9.483	VV	940566	3036066		
131	9.500	9.483	9.531	VV	884686	2199111		
132	9.574	9.531	9.588	VV	883886	26422546	3.99%	0.175%
133	9.606	9.588	9.645	VV	915148	28968028	4.38%	0.192%
134	9.693	9.645	9.718	VV	862474	35308427	5.34%	0.234%
135	9.745	9.718	9.754	VV	979492	19227069	2.91%	0.127%
136	9.766	9.754	9.800	VV	984057	26564946	4.01%	0.176%
137	9.850	9.800	9.879	VV	1398234	53126594	8.03%	0.351%
138	9.915	9.879	9.927	VV	2035363	43074199	6.51%	0.285%
139	9.941	9.927	9.965	VV	2135152	37191056	5.62%	0.246%
140	9.991	9.965	10.048	VV	1502831	64452073	9.74%	0.426%
141	10.102	10.048	10.128	VV	1384099	61945014	9.36%	0.410%
142	10.164	10.128	10.200	VV	1338634	55878660	8.44%	0.370%
143	10.239	10.200	10.247	VV	1368862	37743981	5.70%	0.250%
144	10.338	10.247	10.368	VV	1765361	116319105	17.58%	0.769%
145	10.379	10.368	10.397	VV	1749309	30604667	4.62%	0.202%
146	10.432	10.397	10.478	VV	1777828	84440367	12.76%	0.558%
147	10.752	10.478	10.848	VV	2963618	507941565	76.75%	3.360%
148	10.893	10.848	10.907	VV	2741256	95503624	14.43%	0.632%
149	10.918	10.907	10.954	VV	2729330	75693927	11.44%	0.501%
150	11.025	10.954	11.034	VV	2934476	134674334	20.35%	0.891%
151	11.207	11.034	11.295	VV	5916649	644185531	97.34%	4.261%
152	11.305	11.295	11.321	VV	3801239	57514239	8.69%	0.380%
153	11.374	11.321	11.384	VV	4050131	148051675	22.37%	0.979%
154	11.432	11.384	11.444	VV	4304435	148852897	22.49%	0.985%
155	11.504	11.444	11.514	VV	4542592	185023968	27.96%	1.224%
156	11.526	11.514	11.566	VV	4542784	138640423	20.95%	0.917%
157	11.655	11.566	11.664	VV	4850329	271879195	41.08%	1.798%
158	11.691	11.664	11.698	VV	4910847	99057953	14.97%	0.655%
159	11.712	11.698	11.725	VV	4904173	77943301	11.78%	0.516%
160	11.737	11.725	11.749	VV	4932517	70942838	10.72%	0.469%
161	11.843	11.749	11.864	VV	5378687	355458935	53.71%	2.351%
162	11.954	11.864	12.043	VV	7437110	661805621	100.00%	4.377%
163	12.139	12.043	12.155	VV	6117155	384922549	58.16%	2.546%
164	12.163	12.155	12.211	VV	6044141	198727460	30.03%	1.314%
165	12.224	12.211	12.250	VV	5960214	136718206	20.66%	0.904%
166	12.265	12.250	12.296	VV	5971627	165325935	24.98%	1.093%
167	12.404	12.296	12.435	VV	6516858	521191135	78.75%	3.447%
168	12.521	12.435	12.594	VV	7475899	648898602	98.05%	4.292%
169	12.616	12.594	12.623	VV	6479893	109972166	16.62%	0.727%
170	12.661	12.623	12.728	VV	6699889	404705892	61.15%	2.677%
171	12.748	12.728	12.804	VV	6410158	292373756	44.18%	1.934%
172	12.820	12.804	12.857	VV	6548352	203197904	30.70%	1.344%
173	12.868	12.857	12.894	VV	6466799	140242523	21.19%	0.928%
174	12.956	12.894	12.991	VV	6423501	368827792	55.73%	2.439%

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					rtres			
175	13.000	12.991	13.024	VV	6340998	126052975	19.05%	0.834%
176	13.039	13.024	13.058	VV	6530749	12756100		
177	13.079	13.058	13.088	VV	6547510	11586482		
178	13.106	13.088	13.138	VV	6618834	19322585		
179	13.182	13.138	13.231	VV	6852649	36037479		
180	13.259	13.231	13.375	VV	6293736	524283180	79.22%	3.468%
181	13.383	13.375	13.397	VV	5758154	76779337	11.60%	0.508%
182	13.408	13.397	13.431	VV	5765340	116950586	17.67%	0.774%
183	13.447	13.431	13.511	VV	5767245	270828047	40.92%	1.791%
184	13.519	13.511	13.555	VV	5626672	146028809	22.07%	0.966%
185	13.592	13.555	13.601	VV	5771276	158222132	23.91%	1.046%
186	13.608	13.601	13.615	VV	5766685	47466878	7.17%	0.314%
187	13.620	13.615	13.640	VV	5705675	84088499	12.71%	0.556%
188	13.671	13.640	13.755	VV	6312789	387051636	58.48%	2.560%
189	13.777	13.755	13.813	VV	5384043	181101564	27.36%	1.198%
190	13.827	13.813	13.854	VV	5154119	124011731	18.74%	0.820%
191	13.867	13.854	13.929	VV	4984544	216285529	32.68%	1.431%
192	13.940	13.929	13.960	VV	4691481	85336851	12.89%	0.564%
193	14.002	13.960	14.030	VV	5154801	203838113	30.80%	1.348%
194	14.041	14.030	14.070	VV	4756192	113050805	17.08%	0.748%
195	14.086	14.070	14.148	VV	4533437	204233201	30.86%	1.351%
196	14.204	14.148	14.235	VV	4388587	218737587	33.05%	1.447%
197	14.263	14.235	14.318	VV	4347362	202246410	30.56%	1.338%
198	14.348	14.318	14.378	VV	4227005	139307185	21.05%	0.921%
199	14.403	14.378	14.461	VV	3724268	178782795	27.01%	1.182%
200	14.487	14.461	14.548	VV	3620310	178390166	26.96%	1.180%
201	14.580	14.548	14.612	VV	3779854	134896112	20.38%	0.892%
202	14.639	14.612	14.684	VV	3306022	133889490	20.23%	0.886%
203	14.713	14.684	14.774	VV	2994098	156491807	23.65%	1.035%
204	14.784	14.774	14.851	VV	2760034	121257581	18.32%	0.802%
205	14.868	14.851	14.927	VV	2544697	109959947	16.62%	0.727%
206	14.958	14.927	14.984	VV	2391778	79909825	12.07%	0.529%
207	15.015	14.984	15.108	VV	2480957	163712239	24.74%	1.083%
208	15.118	15.108	15.151	VV	2020834	50397968	7.62%	0.333%
209	15.162	15.151	15.218	VV	1929021	72221208	10.91%	0.478%
210	15.240	15.218	15.285	VV	1726251	67010287	10.13%	0.443%
211	15.305	15.285	15.368	VV	1596691	75136871	11.35%	0.497%
212	15.406	15.368	15.426	VV	2377574	62877673	9.50%	0.416%
213	15.445	15.426	15.518	VV	2003156	79226923	11.97%	0.524%
214	15.543	15.518	15.598	VV	1222178	55146874	8.33%	0.365%
215	15.603	15.598	15.625	VV	1044903	16559095	2.50%	0.110%
216	15.635	15.625	15.718	VV	1004294	52678908	7.96%	0.348%
217	15.728	15.718	15.903	VV	876046	84327458	12.74%	0.558%
218	15.931	15.903	15.987	VV	729191	33059229	5.00%	0.219%
219	15.997	15.987	16.064	VV	569026	24031000	3.63%	0.159%
220	16.078	16.064	16.189	VV	485364	32735323	4.95%	0.217%
221	16.219	16.189	16.373	VV	418290	38236808	5.78%	0.253%

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						Client Sampled : 279887MSD		
222	16.405	16.373	16.542	VV	815913	32645562	4.93%	0.216%
223	16.547	16.542	16.591	VV	217642	609486	Manual IntegrationsAPPR	
224	16.609	16.591	16.671	VV	216658	940656		
225	16.682	16.671	16.694	VV	177820	248599		
						Reviewed By :Yogesh Patel Supervised By :mohammad a		
226	16.722	16.694	16.754	VV	191252	639282		
227	16.779	16.754	16.860	VV	169070	9551944	1.44%	0.063%
228	16.915	16.860	16.931	VV	652099	14331865	2.17%	0.095%
229	16.948	16.931	17.028	VV	842580	15259864	2.31%	0.101%
230	17.035	17.028	17.054	VV	116248	1828208	0.28%	0.012%
231	17.078	17.054	17.152	VV	153269	6630431	1.00%	0.044%
232	17.157	17.152	17.204	VV	96401	2943752	0.44%	0.019%
233	17.224	17.204	17.253	VV	102413	2757174	0.42%	0.018%
234	17.293	17.253	17.316	VV	672016	10858004	1.64%	0.072%
235	17.348	17.316	17.530	VV	607494	16194208	2.45%	0.107%
236	17.550	17.530	17.568	VV	60708	1366797	0.21%	0.009%
237	17.583	17.568	17.658	VV	59635	2981656	0.45%	0.020%
238	17.672	17.658	17.697	VV	52471	1198130	0.18%	0.008%
239	17.711	17.697	17.771	VV	51612	2152172	0.33%	0.014%
240	17.792	17.771	17.828	VV	56389	1617775	0.24%	0.011%
241	17.839	17.828	17.862	VV	41387	822979	0.12%	0.005%
242	17.880	17.862	17.909	VV	41904	1114352	0.17%	0.007%
243	17.930	17.909	17.958	VV	38780	1054123	0.16%	0.007%
244	17.976	17.958	18.001	VV	34155	847238	0.13%	0.006%
245	18.012	18.001	18.057	VV	32444	1023077	0.15%	0.007%
246	18.076	18.057	18.107	VV	29470	833888	0.13%	0.006%
247	18.123	18.107	18.151	VV	28802	731958	0.11%	0.005%
248	18.236	18.151	18.284	VV	541506	9103862	1.38%	0.060%
249	18.322	18.284	18.347	VV	25578	850132	0.13%	0.006%
250	18.398	18.347	18.410	VV	26786	878523	0.13%	0.006%
251	18.423	18.410	18.461	VV	25430	689583	0.10%	0.005%
252	18.480	18.461	18.529	VV	23703	805767	0.12%	0.005%
253	18.574	18.529	18.615	VV	36999	1336236	0.20%	0.009%
254	18.660	18.615	18.675	VV	442980	7418280	1.12%	0.049%
255	18.694	18.675	18.866	VV	489869	10155609	1.53%	0.067%
256	18.916	18.866	19.028	VV	407232	8609563	1.30%	0.057%
257	19.069	19.028	19.124	VV	541563	8543221	1.29%	0.057%
258	19.164	19.124	19.181	VV	25982	709836	0.11%	0.005%
259	19.192	19.181	19.214	VV	22882	414445	0.06%	0.003%
260	19.238	19.214	19.263	VV	19597	522577	0.08%	0.003%
261	19.280	19.263	19.304	VV	16594	374689	0.06%	0.002%
262	19.363	19.304	19.382	VV	20160	789029	0.12%	0.005%
263	19.438	19.382	19.531	VV	38434	2271200	0.34%	0.015%
264	19.564	19.531	19.586	VV	21975	660622	0.10%	0.004%
265	19.613	19.586	19.644	VV	40065	936331	0.14%	0.006%
266	19.675	19.644	19.690	VV	19623	521207	0.08%	0.003%
267	19.717	19.690	19.751	VV	26040	803902	0.12%	0.005%
268	19.772	19.751	19.802	VV	26526	662483	0.10%	0.004%
269	19.854	19.802	19.904	VV	569188	8712027	1.32%	0.058%

Instrument :

FID_E

ClientSampleId :

279887MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

270	19.927	19.904	19.992	VV	41974	1436015	0.22%	0.009%
271	20.022	19.992	20.060	VV	30520	102404		
272	20.076	20.060	20.098	VV	23093	51461		
273	20.151	20.098	20.181	VV	29644	124081		
274	20.218	20.181	20.285	VV	108316	281213		
275	20.303	20.285	20.359	VV	26772	1168903	0.18%	0.008%
276	20.382	20.359	20.424	VV	27357	1026529	0.16%	0.007%
277	20.484	20.424	20.523	VV	35649	1845663	0.28%	0.012%
278	20.545	20.523	20.553	VV	31019	545633	0.08%	0.004%
279	20.595	20.553	20.648	VV	561625	9357260	1.41%	0.062%
280	20.730	20.648	20.743	VV	36670	1885224	0.28%	0.012%
281	20.763	20.743	20.808	VV	37384	1319213	0.20%	0.009%
282	20.814	20.808	20.858	VV	32088	942005	0.14%	0.006%
283	20.870	20.858	20.893	VV	31364	648105	0.10%	0.004%
284	20.920	20.893	20.932	VV	32292	733119	0.11%	0.005%
285	20.962	20.932	20.973	VV	35033	826655	0.12%	0.005%
286	20.985	20.973	21.001	VV	34622	576517	0.09%	0.004%
287	21.040	21.001	21.188	VV	35552	3606774	0.54%	0.024%
288	21.195	21.188	21.253	VV	29695	1134046	0.17%	0.008%
289	21.265	21.253	21.314	VV	29103	1029566	0.16%	0.007%
290	21.371	21.314	21.515	VV	441930	10795964	1.63%	0.071%
291	21.530	21.515	21.560	VV	22575	596734	0.09%	0.004%
292	21.567	21.560	21.587	VV	22234	347623	0.05%	0.002%
293	21.596	21.587	21.637	VV	21560	646718	0.10%	0.004%
294	21.646	21.637	21.660	VV	21187	291140	0.04%	0.002%
295	21.691	21.660	21.731	VV	21537	874403	0.13%	0.006%
296	21.750	21.731	21.794	VV	20089	731917	0.11%	0.005%
297	21.818	21.794	21.961	VV	20408	1708710	0.26%	0.011%
298	21.986	21.961	22.115	VV	14996	1282508	0.19%	0.008%
299	22.141	22.115	22.154	VV	12980	297411	0.04%	0.002%
300	22.166	22.154	22.180	VV	12286	188867	0.03%	0.001%
301	22.192	22.180	22.201	VV	12696	153557	0.02%	0.001%
302	22.210	22.201	22.284	VV	12628	585288	0.09%	0.004%
303	22.353	22.284	22.451	VBA	309228	8673692	1.31%	0.057%

Sum of corrected areas: 15119233353

Instrument :

FID_E

ClientSampleId :

279887MSD

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 10/06/2025

Supervised By :mohammad ahmed 10/06/2025

Aliphatic EPH 092425.M Sat Oct 04 00:48:10 2025



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

Manual Integration Report

Sequence:

FE092425AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3168-03	FE055979.D	1-chlorooctadecane (SURR)	yogesh	9/25/2025 1:08:41 PM	mohammad	9/26/2025 4:25:44	Peak Integrated by Software
Q3168-03	FE055979.D	ortho-Terphenyl (SURR)	yogesh	9/25/2025 1:08:41 PM	mohammad	9/26/2025 4:25:44	Peak Integrated by Software

Manual Integration Report

Sequence:

FE100325AL

Instrument

FID_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169970BS	FE056165.D	n-Octacosane (C28)	yogesh	10/6/2025 2:29:40 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software
PB169970BSD	FE056166.D	n-Octacosane (C28)	yogesh	10/6/2025 2:29:38 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software
Q3262-08MS	FE056170.D	n-Hexadecane (C16)	yogesh	10/6/2025 2:29:36 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software
Q3262-08MS	FE056170.D	ortho-Terphenyl (SURR)	yogesh	10/6/2025 2:29:36 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software
Q3262-08MSD	FE056171.D	n-Hexacosane (C26)	yogesh	10/6/2025 2:29:35 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software
Q3262-08MSD	FE056171.D	n-Octacosane (C28)	yogesh	10/6/2025 2:29:35 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software
Q3262-05	FE056188.D	1-chlorooctadecane (SURR)	yogesh	10/6/2025 2:29:33 AM	mohammad	10/6/2025 2:37:36	Peak Integrated by Software

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method FE092425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE055960.D	24 Sep 2025 08:06	YP\AJ	Ok
2	I.BLK	FE055961.D	24 Sep 2025 08:36	YP\AJ	Ok
3	100 PPM ALIPHATIC HC STD1	FE055962.D	24 Sep 2025 09:07	YP\AJ	Ok
4	50 PPM ALIPHATIC HC STD2	FE055963.D	24 Sep 2025 09:37	YP\AJ	Ok
5	20 PPM ALIPHATIC HC STD3	FE055964.D	24 Sep 2025 10:07	YP\AJ	Ok
6	10 PPM ALIPHATIC HC STD4	FE055965.D	24 Sep 2025 10:38	YP\AJ	Ok
7	5 PPM ALIPHATIC HC STD5	FE055966.D	24 Sep 2025 11:08	YP\AJ	Ok
8	20 PPM ALIPHATIC HC STD ICV	FE055967.D	24 Sep 2025 11:39	YP\AJ	Ok
9	I.BLK	FE055968.D	24 Sep 2025 12:09	YP\AJ	Ok
10	20 PPM ALIPHATIC HC STD	FE055969.D	24 Sep 2025 12:40	YP\AJ	Ok
11	PB169809BL	FE055970.D	24 Sep 2025 14:27	YP\AJ	Ok
12	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
13	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
14	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
15	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
16	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
17	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
18	PB169809BS	FE055971.D	24 Sep 2025 14:58	YP\AJ	Ok
19	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
20	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
21	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method FE092425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

22	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
23	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
24	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
25	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
26	PB169809BSD	FE055972.D	24 Sep 2025 15:28	YP\AJ	Ok
27	Q3159-01	FE055973.D	24 Sep 2025 15:59	YP\AJ	Ok
28	Q3159-01D	FE055974.D	24 Sep 2025 16:29	YP\AJ	Ok
29	Q3159-01MS	FE055975.D	24 Sep 2025 17:00	YP\AJ	Ok
30	Q3159-01MSD	FE055976.D	24 Sep 2025 17:31	YP\AJ	Ok
31	Q3159-03	FE055977.D	24 Sep 2025 18:01	YP\AJ	Ok
32	Q3167-01	FE055978.D	24 Sep 2025 18:32	YP\AJ	Dilution
33	Q3168-03	FE055979.D	24 Sep 2025 19:03	YP\AJ	Dilution
34	I.BLK	FE055980.D	24 Sep 2025 20:04	YP\AJ	Ok
35	20 PPM ALIPHATIC HC STD	FE055981.D	24 Sep 2025 20:35	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE100325AL

Review By	yogesh	Review On	10/3/2025 10:54:21 AM
Supervise By	mohammad	Supervise On	10/6/2025 2:37:36 AM
SubDirectory	FE100325AL	HP Acquire Method	HP Processing Method FE092425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	MECL2	FE056161.D	03 Oct 2025 10:00	YP\AJ	Ok
2	I.BLK	FE056162.D	03 Oct 2025 10:30	YP\AJ	Ok
3	20 PPM ALIPHATIC HC STD	FE056163.D	03 Oct 2025 11:00	YP\AJ	Ok
4	PB169970BL	FE056164.D	03 Oct 2025 14:15	YP\AJ	Ok
5	PB169970BS	FE056165.D	03 Oct 2025 14:45	YP\AJ	Ok,M
6	PB169970BSD	FE056166.D	03 Oct 2025 15:15	YP\AJ	Ok,M
7	Q3262-01	FE056167.D	03 Oct 2025 15:46	YP\AJ	Ok
8	Q3262-08	FE056168.D	03 Oct 2025 16:16	YP\AJ	Dilution
9	Q3262-08D	FE056169.D	03 Oct 2025 16:47	YP\AJ	Ok
10	Q3262-08MS	FE056170.D	03 Oct 2025 17:17	YP\AJ	Ok,M
11	Q3262-08MSD	FE056171.D	03 Oct 2025 17:47	YP\AJ	Ok,M
12	Q3269-01	FE056172.D	03 Oct 2025 18:18	YP\AJ	Ok
13	Q3269-02	FE056173.D	03 Oct 2025 18:48	YP\AJ	Ok
14	Q3269-04	FE056174.D	03 Oct 2025 19:19	YP\AJ	Ok
15	Q3269-05	FE056175.D	03 Oct 2025 19:49	YP\AJ	Ok
16	I.BLK	FE056176.D	03 Oct 2025 20:50	YP\AJ	Ok
17	20 PPM ALIPHATIC HC STD	FE056177.D	03 Oct 2025 21:20	YP\AJ	Ok
18	Q3270-01	FE056178.D	03 Oct 2025 22:21	YP\AJ	Ok
19	Q3270-02	FE056179.D	03 Oct 2025 22:51	YP\AJ	Ok
20	Q3271-01	FE056180.D	03 Oct 2025 23:22	YP\AJ	Ok
21	Q3271-02	FE056181.D	03 Oct 2025 23:53	YP\AJ	Dilution

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE100325AL

Review By	yogesh	Review On	10/3/2025 10:54:21 AM
Supervise By	mohammad	Supervise On	10/6/2025 2:37:36 AM
SubDirectory	FE100325AL	HP Acquire Method	HP Processing Method FE092425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24771 PP24769,PP24774		

22	Q3272-01	FE056182.D	04 Oct 2025 00:23	YP\AJ	Ok
23	Q3272-02	FE056183.D	04 Oct 2025 00:54	YP\AJ	Ok
24	Q3272-03	FE056184.D	04 Oct 2025 01:25	YP\AJ	Ok
25	Q3272-04	FE056185.D	04 Oct 2025 01:55	YP\AJ	Ok
26	Q3277-01	FE056186.D	04 Oct 2025 02:26	YP\AJ	Ok
27	Q3262-02	FE056187.D	04 Oct 2025 02:57	YP\AJ	Dilution
28	Q3262-05	FE056188.D	04 Oct 2025 03:27	YP\AJ	Dilution
29	I.BLK	FE056189.D	04 Oct 2025 04:59	YP\AJ	Ok
30	20 PPM ALIPHATIC HC STD	FE056190.D	04 Oct 2025 05:30	YP\AJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method
			FE092425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC	PP24771
Internal Standard/PEM	
ICV/I.BLK	PP24769,PP24774
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE055960.D	24 Sep 2025 08:06		YP\AJ	Ok
2	I.BLK	I.BLK	FE055961.D	24 Sep 2025 08:36		YP\AJ	Ok
3	100 PPM ALIPHATIC HC	100 PPM ALIPHATIC HC	FE055962.D	24 Sep 2025 09:07		YP\AJ	Ok
4	50 PPM ALIPHATIC HC	50 PPM ALIPHATIC HC	FE055963.D	24 Sep 2025 09:37		YP\AJ	Ok
5	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055964.D	24 Sep 2025 10:07		YP\AJ	Ok
6	10 PPM ALIPHATIC HC	10 PPM ALIPHATIC HC	FE055965.D	24 Sep 2025 10:38		YP\AJ	Ok
7	5 PPM ALIPHATIC HC	5 PPM ALIPHATIC HC	FE055966.D	24 Sep 2025 11:08		YP\AJ	Ok
8	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055967.D	24 Sep 2025 11:39		YP\AJ	Ok
9	I.BLK	I.BLK	FE055968.D	24 Sep 2025 12:09		YP\AJ	Ok
10	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055969.D	24 Sep 2025 12:40		YP\AJ	Ok
11	PB169809BL	PB169809BL	FE055970.D	24 Sep 2025 14:27		YP\AJ	Ok
12	PB169809BS	PB169809BLBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
13	PB169809BS	PB169809BLBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
14	PB169809BS	PB169809BLBSBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
15	PB169809BS	PB169809BLBSBSBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
16	PB169809BS	PB169809BLBSBSBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
17	PB169809BS	PB169809BLBSBSBSBS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok
18	PB169809BS	PB169809BS	FE055971.D	24 Sep 2025 14:58		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL

Review By	yogesh	Review On	9/24/2025 11:25:42 AM
Supervise By	mohammad	Supervise On	9/26/2025 4:25:44 AM
SubDirectory	FE092425AL	HP Acquire Method	HP Processing Method FE092425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM			
ICV/I.BLK	PP24769,PP24774		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
20	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
21	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
22	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
23	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
24	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
25	PB169809BSD	PB169809BLBSBSBSE	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
26	PB169809BSD	PB169809BSD	FE055972.D	24 Sep 2025 15:28		YPIAJ	Ok
27	Q3159-01	VNJ-245	FE055973.D	24 Sep 2025 15:59		YPIAJ	Ok
28	Q3159-01D	VNJ-245D	FE055974.D	24 Sep 2025 16:29		YPIAJ	Ok
29	Q3159-01MS	VNJ-245MS	FE055975.D	24 Sep 2025 17:00	FE055973.D	YPIAJ	Ok
30	Q3159-01MSD	VNJ-245MSD	FE055976.D	24 Sep 2025 17:31	FE055973.D!FE055975.D	YPIAJ	Ok
31	Q3159-03	VNJ-255	FE055977.D	24 Sep 2025 18:01		YPIAJ	Ok
32	Q3167-01	RT4784	FE055978.D	24 Sep 2025 18:32	Need 2X	YPIAJ	Dilution
33	Q3168-03	ARS20-0010-Oily Soil-S	FE055979.D	24 Sep 2025 19:03	Need 10X	YPIAJ	Dilution
34	I.BLK	I.BLK	FE055980.D	24 Sep 2025 20:04		YPIAJ	Ok
35	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE055981.D	24 Sep 2025 20:35		YPIAJ	Ok

M : Manual Integration

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE100325AL

Review By	yogesh	Review On	10/3/2025 10:54:21 AM
Supervise By	mohammad	Supervise On	10/6/2025 2:37:36 AM
SubDirectory	FE100325AL	HP Acquire Method	HP Processing Method FE092425AL

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773
CCC Internal Standard/PEM	PP24771
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24769,PP24774

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	MECL2	MECL2	FE056161.D	03 Oct 2025 10:00		YP\AJ	Ok
2	I.BLK	I.BLK	FE056162.D	03 Oct 2025 10:30		YP\AJ	Ok
3	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056163.D	03 Oct 2025 11:00		YP\AJ	Ok
4	PB169970BL	PB169970BL	FE056164.D	03 Oct 2025 14:15		YP\AJ	Ok
5	PB169970BS	PB169970BS	FE056165.D	03 Oct 2025 14:45		YP\AJ	Ok,M
6	PB169970BSD	PB169970BSD	FE056166.D	03 Oct 2025 15:15		YP\AJ	Ok,M
7	Q3262-01	PAD-100125	FE056167.D	03 Oct 2025 15:46		YP\AJ	Ok
8	Q3262-08	279887	FE056168.D	03 Oct 2025 16:16	Need 5X,100X	YP\AJ	Dilution
9	Q3262-08D	Q3262-08D	FE056169.D	03 Oct 2025 16:47		YP\AJ	Ok
10	Q3262-08MS	279887MS	FE056170.D	03 Oct 2025 17:17	FE056168.D	YP\AJ	Ok,M
11	Q3262-08MSD	279887MSD	FE056171.D	03 Oct 2025 17:47	FE056168.D!FE056170.D	YP\AJ	Ok,M
12	Q3269-01	EG1-TP1	FE056172.D	03 Oct 2025 18:18		YP\AJ	Ok
13	Q3269-02	EG1-TP1-E2	FE056173.D	03 Oct 2025 18:48		YP\AJ	Ok
14	Q3269-04	EG1-TP2	FE056174.D	03 Oct 2025 19:19		YP\AJ	Ok
15	Q3269-05	EG1-TP2-E2	FE056175.D	03 Oct 2025 19:49		YP\AJ	Ok
16	I.BLK	I.BLK	FE056176.D	03 Oct 2025 20:50		YP\AJ	Ok
17	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056177.D	03 Oct 2025 21:20		YP\AJ	Ok
18	Q3270-01	SG-1-TEST-PIT	FE056178.D	03 Oct 2025 22:21		YP\AJ	Ok

Instrument ID: FID_E

Daily Analysis Runlog For Sequence/QC Batch ID # FE100325AL

Review By	yogesh	Review On	10/3/2025 10:54:21 AM
Supervise By	mohammad	Supervise On	10/6/2025 2:37:36 AM
SubDirectory	FE100325AL	HP Acquire Method	HP Processing Method FE092425AL
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24768,PP24770,PP24771,PP24772,PP24773		
CCC	PP24771		
Internal Standard/PEM	PP24769,PP24774		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3270-02	SG-1-TEST-PIT	FE056179.D	03 Oct 2025 22:51		YP\AJ	Ok
20	Q3271-01	72-11929	FE056180.D	03 Oct 2025 23:22		YP\AJ	Ok
21	Q3271-02	72-11929-E2	FE056181.D	03 Oct 2025 23:53	Need 2X	YP\AJ	Dilution
22	Q3272-01	VNJ-235	FE056182.D	04 Oct 2025 00:23		YP\AJ	Ok
23	Q3272-02	VNJ-235-E2	FE056183.D	04 Oct 2025 00:54		YP\AJ	Ok
24	Q3272-03	R7	FE056184.D	04 Oct 2025 01:25		YP\AJ	Ok
25	Q3272-04	R7-E2	FE056185.D	04 Oct 2025 01:55		YP\AJ	Ok
26	Q3277-01	WC1	FE056186.D	04 Oct 2025 02:26		YP\AJ	Ok
27	Q3262-02	MOO-25-0280	FE056187.D	04 Oct 2025 02:57	Need 100X,500X	YP\AJ	Dilution
28	Q3262-05	MOO-25-0281-82	FE056188.D	04 Oct 2025 03:27	Need 5X	YP\AJ	Dilution
29	I.BLK	I.BLK	FE056189.D	04 Oct 2025 04:59		YP\AJ	Ok
30	20 PPM ALIPHATIC HC	20 PPM ALIPHATIC HC	FE056190.D	04 Oct 2025 05:30		YP\AJ	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/3/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:30
In Date: 10/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:40
Out Date: 10/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % solids-oven

QC:LB137394

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
Q2409-05	COP-SOIL-PILE	12	1.18	10.58	11.76	11.38	96.4	
Q3249-03	S-3 (4-4.5)	1	1.11	10.45	11.56	9.51	80.4	
Q3249-08	S-8 (4.5-5)	2	1.19	10.75	11.94	10.38	85.5	
Q3249-16	S-14 (4-4.5)	3	1.13	10.32	11.45	9.34	79.6	
Q3249-19	S-18 (4.5-5)	4	1.18	10.64	11.82	10.8	90.4	
Q3249-22	S-20 (4-4.5)	5	1.18	10.47	11.65	10.64	90.4	
Q3249-24	S-22 (4.5-5)	6	1.19	10.11	11.3	10.33	90.4	
Q3249-27	S-24 (4.5-5)	7	1.15	11.05	12.2	9.82	78.5	
Q3269-01	EG1-TP1	8	1.18	10.78	11.96	10.97	90.8	
Q3269-02	EG1-TP1-E2	9	1.13	10.63	11.76	10.8	91.0	
Q3269-04	EG1-TP2	10	1.13	10.85	11.98	10.97	90.7	
Q3269-05	EG1-TP2-E2	11	1.11	10.77	11.88	11.13	93.0	
Q3270-01	SG-1-TEST-PIT	16	1.18	10.73	11.91	10.77	89.4	
Q3270-02	SG-1-TEST-PIT	17	1.19	10.32	11.51	10.79	93.0	
Q3271-01	72-11929	18	1.13	9.61	10.74	9.79	90.1	
Q3271-02	72-11929-E2	19	1.19	10.47	11.66	10.57	89.6	
Q3272-01	VNJ-235	20	1.19	10.68	11.87	10.15	83.9	
Q3272-02	VNJ-235-E2	21	1.13	10.47	11.6	10.15	86.2	
Q3272-03	R7	22	1.12	10.85	11.97	7.78	61.4	
Q3272-04	R7-E2	23	1.18	10.67	11.85	8.98	73.1	
Q3272-06	RT5417-CONCRETE	24	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3276-01	SB2	13	1.14	10.92	12.06	10.6	86.6	
Q3276-02	SB2A	14	1.15	10.38	11.53	10.6	91.0	
Q3277-01	WC1	15	1.18	10.41	11.59	11.34	97.6	

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

WORKLIST(Hardcopy Internal Chain)

137394

WorkList Name : %1-100225 WorkList ID : 192236 Department : Wet-Chemistry Date : 10-02-2025 09:10:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2409-05	COP-SOIL-PILE	Solid	Percent Solids	Cool 4 deg C	COPP02	D51	06/24/2025	Chemtech -SO
Q3249-03	S-3(4-4.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3249-08	S-8(4.5-5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3249-16	S-14(4-4.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3249-19	S-18(4.5-5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3249-22	S-20(4-4.5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3249-24	S-22(4.5-5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3249-27	S-24(4.5-5)	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3269-01	EG1-TP1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	09/29/2025	Chemtech -SO
Q3269-02	EG1-TP1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3269-04	EG1-TP2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3269-05	EG1-TP2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3270-01	SG-1-TEST-PIT	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3270-02	SG-1-TEST-PIT	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3271-01	72-11929	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3271-02	72-11929-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3272-01	VNJ-235	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3272-02	VNJ-235-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3272-03	R7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3272-04	R7-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO
Q3272-06	RT5417-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/02/2025	Chemtech -SO

Date/Time 10/02/25 16:00
 Raw Sample Received by: SO WCI
 Raw Sample Relinquished by: CP
 Date/Time 10/02/25
 Raw Sample Received by: CP
 Raw Sample Relinquished by: SO WCI

WORKLIST(Hardcopy Internal Chain)

8137394

WorkList Name : %1-100225

WorkList ID : 192236

Department : Wet-Chemistry

Date : 10-02-2025 09:10:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3276-01	SB2	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	10/01/2025	Chemtech -SO
Q3276-02	SB2A	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	10/01/2025	Chemtech -SO
Q3277-01	WC1	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	09/30/2025	Chemtech -SO

Date/Time 10/02/25 16:00
 Raw Sample Received by: SP
 Raw Sample Relinquished by: CP

Date/Time 10/02/25 17:40
 Raw Sample Received by: CP
 Raw Sample Relinquished by: SP

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH **Extraction By:** RJ

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

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

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

Extraction Start Date : 10/03/2025

Extraction Start Time : 09:40

Extraction End Date : 10/03/2025

Extraction End Time : 14:00

Concentration By: EH

Supervisor By : ritesh

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	100 PPM	PP24918
Surrogate	1.0ML	100 PPM	PP24941
Fractionation Surrogate	1.0ML	100 PPM	PP24915
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	EP2641
Baked Na2SO4	N/A	EP2646
Sand	N/A	E3951
Hexane	N/A	E3974
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
10/03/25	RJ CETA (Cub)	R. P. S. / R. B. C. (Cub)
14:05	Preparation Group	Analysis Group

Analytical Method: MNJDEP-EPH-8

Concentration Date: 10/03/2025

Sample ID	Client Sample ID	Test	mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169970BL	PB169970BL	EPH_NF	30.02	N/A	ritesh	Evelyn	2			U6-1
PB169970BS	PB169970BS	EPH_NF	30.03	N/A	ritesh	Evelyn	2			2
PB169970BSD	PB169970BSD	EPH_NF	30.01	N/A	ritesh	Evelyn	2			3
Q3262-01	PAD-100125	EPH_NF	30.06	N/A	ritesh	Evelyn	2	A	Concrete	4
Q3262-02	MOO-25-0280	EPH_NF	30.08	N/A	ritesh	Evelyn	2	D	Small Particles	5
Q3262-05	MOO-25-0281-82	EPH_NF	30.07	N/A	ritesh	Evelyn	2	D	Small Particles	6
Q3262-08	279887	EPH_NF	30.05	N/A	ritesh	Evelyn	2	D		U1-1
Q3262-08DUP	279887DUP	EPH_NF	30.05	N/A	ritesh	Evelyn	2	D		2
Q3262-08MS	279887MS	EPH_NF	30.04	N/A	ritesh	Evelyn	2	D		3
Q3262-08MSD	279887MSD	EPH_NF	30.01	N/A	ritesh	Evelyn	2	D		4
Q3269-01	EG1-TP1	EPH_NF	30.09	N/A	ritesh	Evelyn	2	D		5
Q3269-02	EG1-TP1-E2	EPH_NF	30.06	N/A	ritesh	Evelyn	2			6
Q3269-04	EG1-TP2	EPH_NF	30.03	N/A	ritesh	Evelyn	2	D		U2-1
Q3269-05	EG1-TP2-E2	EPH_NF	30.04	N/A	ritesh	Evelyn	2			2
Q3270-01	SG-1-TEST-PIT	EPH_NF	30.08	N/A	ritesh	Evelyn	2	D		3
Q3270-02	SG-1-TEST-PIT	EPH_NF	30.03	N/A	ritesh	Evelyn	2			3
Q3271-01	72-11929	EPH_NF	30.05	N/A	ritesh	Evelyn	2	D		5
Q3271-02	72-11929-E2	EPH_NF	30.07	N/A	ritesh	Evelyn	2			6
Q3272-01	VNJ-235	EPH_NF	30.02	N/A	ritesh	Evelyn	2	E		U3-1
Q3272-02	VNJ-235-E2	EPH_NF	30.01	N/A	ritesh	Evelyn	2			2
Q3272-03	R7	EPH_NF	30.06	N/A	ritesh	Evelyn	2	E		3
Q3272-04	R7-E2	EPH_NF	30.05	N/A	ritesh	Evelyn	2			4
Q3277-01	WC1	EPH_NF	30.07	N/A	ritesh	Evelyn	2	B		5

* Extracts relinquished on the same date as received.

RJ
10/03

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3271

WorkList ID : 192264

Department : Extraction

Date : 10-03-2025 08:38:40

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3262-01	PAD-100125	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/01/2025	NJEPH
Q3262-02	MOO-25-0280	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/01/2025	NJEPH
Q3262-05	MOO-25-0281-82	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/01/2025	NJEPH
Q3262-08	279887	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/01/2025	NJEPH
Q3269-01	EG1-TP1	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3269-02	EG1-TP1-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3269-04	EG1-TP2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3269-05	EG1-TP2-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3270-01	SG-1-TEST-PIT	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3270-02	SG-1-TEST-PIT	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3271-01	72-11929	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3271-02	72-11929-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3272-01	VNJ-235	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3272-02	VNJ-235-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3272-03	R7	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3272-04	R7-E2	Solid	EPH_NF	Cool 4 deg C	PSEG03	D31	10/02/2025	NJEPH
Q3277-01	WC1	Solid	EPH_NF	Cool 4 deg C	GENV01	D31	09/30/2025	NJEPH

Date/Time 10/03/25 9:35
 Raw Sample Received by: RJ CFA-10041
 Raw Sample Relinquished by: CFS

Date/Time 10/03/25 10:05
 Raw Sample Received by: CFS
 Raw Sample Relinquished by: RJ CFA-10041

Prep Standard - Chemical Standard Summary

Order ID : Q3277

Test : EPH_NF

Prepbatch ID : PB169970,

Sequence ID/Qc Batch ID: FE100325AL,

Standard ID :

EP2641,EP2646,PP24768,PP24769,PP24770,PP24771,PP24772,PP24773,PP24774,PP24915,PP24918,PP24941,

Chemical ID :

E3875,E3951,E3956,E3966,E3972,E3973,E3974,P12364,P13280,P13281,P13620,P13690,P14029,P14030,P14031,P14032,P14058,P14059,P14060,P14061,P14074,P14075,P14076,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,P14101,P14102,P14103,P14147,P14148,P14149,P14150,W3234,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2641	09/16/2025	03/16/2026	Evelyn Huang	None	None	Riteshkumar Patel
								09/16/2025

FROM 8000.00000ml of E3972 + 8000.00000ml of E3973 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2	None	Riteshkumar Patel
						(EX-SC-2)		09/26/2025

FROM 4000.00000gram of E3875 = 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>
781	100 PPM Aliphatic HC Working STD (Restek)	PP24768	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = 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)	PP24769	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza 08/19/2025
<u>FROM</u> 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = 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	PP24770	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.50000ml of W3234 + 0.50000ml of PP24768 = 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	PP24771	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24768 = 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	PP24772	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24768 = 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	PP24773	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.90000ml of W3234 + 0.10000ml of PP24770 = 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)	PP24774	08/01/2025	02/01/2026	Yogesh Patel	None	None	Abdul Mirza
								08/19/2025

FROM 0.80000ml of W3234 + 0.20000ml of PP24769 = 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>
1331	100 PPM NJEPH Fractionating Surrogate	PP24915	08/28/2025	02/28/2026	Abdul Mirza	None	None	Yogesh Patel
								09/17/2025

FROM 1.25000ml of P14058 + 1.25000ml of P14059 + 1.25000ml of P14060 + 1.25000ml of P14061 + 195.00000ml of E3966 = Final Quantity: 200.000 ml



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

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

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

CHEMICAL RECEIPT LOG BOOK

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	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

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)	25C0362005	04/30/2026	07/16/2025 / RUPESH	07/16/2025 / RUPESH	E3956

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)	25C0362005	04/30/2026	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30540 / Custom NJEPH Aliphatics Calibration Standard	A0190424	02/01/2026	08/01/2025 / yogesh	03/16/2023 / Yogesh	P12364

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	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13280

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	02/01/2026	08/01/2025 / yogesh	04/11/2024 / yogesh	P13281

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0213283	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	02/01/2026	08/01/2025 / yogesh	10/16/2024 / yogesh	P13690

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	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14031

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31098 / 1-Chlorooctadecane Standard	A0225485	03/24/2026	09/24/2025 / Abdul	06/02/2025 / Rahul	P14032

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0224278	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14059

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14060

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31480 / MA Fractionation Surrogate Spike Mix	A0221895	02/28/2026	08/28/2025 / Abdul	06/09/2025 / anahy	P14061

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14075

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14076

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14077

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	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14078

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14080

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14081

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14082

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30543 / Custom NJEPH Aromatics Matrix Spike Mix	A0225381	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14083

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	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14094

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14095

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14099

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	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14100

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30542 / Custom NJEPH Aliphatics Matrix Spike Mix	A0226411	03/02/2026	09/02/2025 / Abdul	07/16/2025 / anahy	P14103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14147

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14148

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31097 / o-Terphenyl Standard	A0216631	03/24/2026	09/24/2025 / Abdul	09/24/2025 / Abdul	P14150

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)	25C0362005	04/30/2026	07/28/2025 / jignesh	07/25/2025 / jignesh	W3234

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	4
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

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

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

Received on 7/16/25

E3956

Jamie Croak
Director Quality Operations, Bioscience Production

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

The Avantor logo consists of a stylized 'A' symbol followed by the word 'avantors' in a lowercase, sans-serif font.

Material No.: 9262-03
Batch No.: 25C0362005
Manufactured Date: 2025-01-29
Expiration Date: 2026-04-30
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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5\%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95\%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05\%$	$< 0.01\%$

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

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

E 3966

A handwritten signature in cursive script, appearing to read 'J. Croak'.

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 %	0.2 %
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

E3972

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



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)

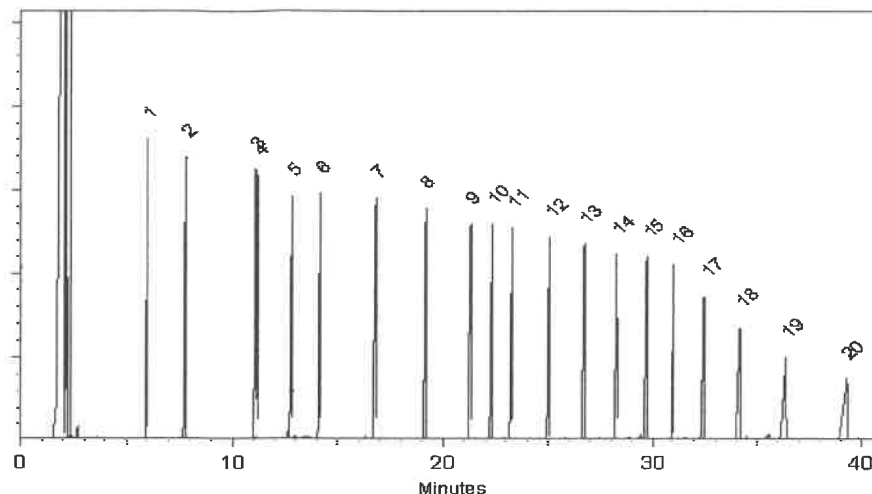
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

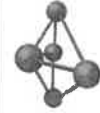
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- 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.



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

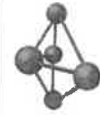
P13278
2
P13287
Y.P.
04/11/24

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)
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
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	0.013	NA	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	0.013	NA	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	0.013	NA	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.1	589-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	0.013	NA	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	0.013	NA	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	0.013	NA	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	0.013	NA	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	0.013	NA	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	0.013	NA	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetraacontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	0.013	NA	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	0.013	NA	NA	NA	1000.8	4.2	630-08-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	0.013	NA	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	0.013	NA	NA	NA	999.9	4.3	4181-95-7	N/A

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyal, 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).



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):
Cyclohexane

Lot#
28930

P13278
2
P13287
Y.P.
04/11/24

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Anthony Mahoney	040524	DATE
Reviewed By:	Pedro L. Rentas	040524	DATE

Compound		Part Number	Lot Number	DIL	Factor	Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Pipette	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
		(RM#)														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)
1.	2-Methylnaphthalene	(0214)	MKB3783V	NA	NA	NA	NA	1000	97	0.2	NA	0.02579	0.02594	1005.7	5.7	91-57-6	N/A
2.	Naphthalene	(0222)	MKB28680V	NA	NA	NA	NA	1000	100	0.2	NA	0.02502	0.02511	1003.7	5.7	91-20-3	10 ppm (50mg/m ³ 8H) orl-rat 1630mg/kg
3.	n-Nonane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	111-84-2	200 ppm (1050mg/m ³ 8H) orl-rat 490mg/kg
4.	n-Decane	95708	120222	1.00	25.00	1000.9	1000.9	1000	NA	NA	0.013	NA	NA	1000.2	4.2	124-18-5	ivn-mus 218mg/kg
5.	n-Dodecane	95708	120222	1.00	25.00	1000.7	1000.7	1000	NA	NA	0.013	NA	NA	1000.0	4.2	112-40-3	N/A
6.	n-Tetradecane	95708	120222	1.00	25.00	1002.1	1002.1	1000	NA	NA	0.013	NA	NA	1001.3	4.2	629-59-4	ivn-mus 3494mg/kg
7.	n-Hexadecane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.7	4.2	544-76-3	N/A
8.	n-Octadecane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.1	589-45-3	N/A
9.	n-Eicosane	95708	120222	1.00	25.00	1001.0	1001.0	1000	NA	NA	0.013	NA	NA	1000.3	4.2	112-95-8	N/A
10.	n-Henicosane	95708	120222	1.00	25.00	1002.4	1002.4	1000	NA	NA	0.013	NA	NA	1001.6	4.2	629-94-7	N/A
11.	n-Docosane	95708	120222	1.00	25.00	1001.9	1001.9	1000	NA	NA	0.013	NA	NA	1001.2	4.2	629-97-0	N/A
12.	n-Tetracosane	95708	120222	1.00	25.00	1000.8	1000.8	1000	NA	NA	0.013	NA	NA	1000.1	4.2	646-31-1	N/A
13.	n-Hexacosane	95708	120222	1.00	25.00	1001.2	1001.2	1000	NA	NA	0.013	NA	NA	1000.4	4.2	630-01-3	N/A
14.	n-Octacosane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	630-02-4	N/A
15.	n-Triacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.2	638-68-6	N/A
16.	n-Dotriacontane	95708	120222	1.00	25.00	1000.5	1000.5	1000	NA	NA	0.013	NA	NA	999.8	4.3	544-85-4	ivn-mus 100mg/kg
17.	n-Tetraacontane	95708	120222	1.00	25.00	1000.4	1000.4	1000	NA	NA	0.013	NA	NA	999.7	4.2	14167-59-0	N/A
18.	n-Hexatriacontane	95708	120222	1.00	25.00	1001.5	1001.5	1000	NA	NA	0.013	NA	NA	1000.8	4.2	630-06-8	N/A
19.	n-Octatriacontane	95708	120222	1.00	25.00	1000.3	1000.3	1000	NA	NA	0.013	NA	NA	999.6	4.3	7184-86-6	N/A
20.	n-Tetracontane	95708	120222	1.00	25.00	1000.6	1000.6	1000	NA	NA	0.013	NA	NA	999.9	4.3	4181-95-7	N/A

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyal, 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).



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.:** A0213283

Description : 1-Chlorooctadecane Standard

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

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

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

Ship: Ambient

P13595
↓
P13624 } Y.P.
10/16/24

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

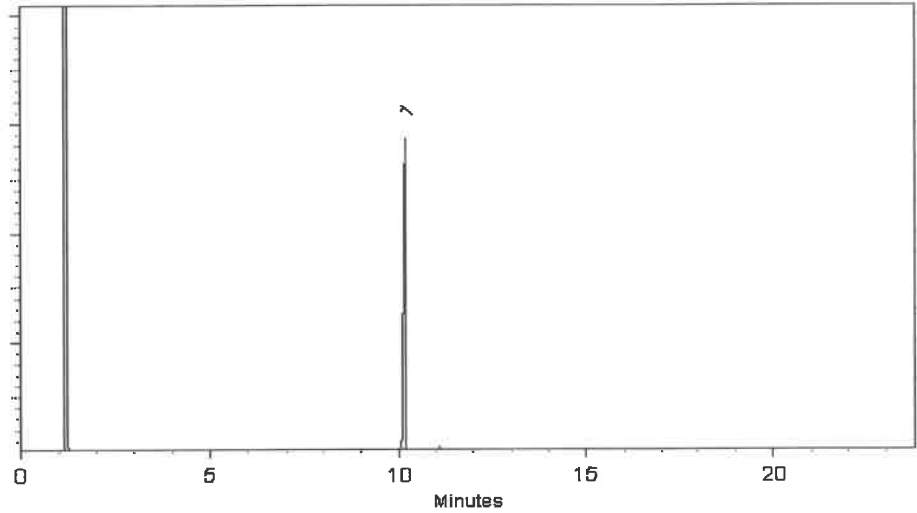
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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

Stacey Wanner - Operations Technician I

Date Mixed: 28-Jun-2024

Balance Serial # B345965662

Dillan Murphy - Operations Technician I

Date Passed: 01-Jul-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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.:** 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:

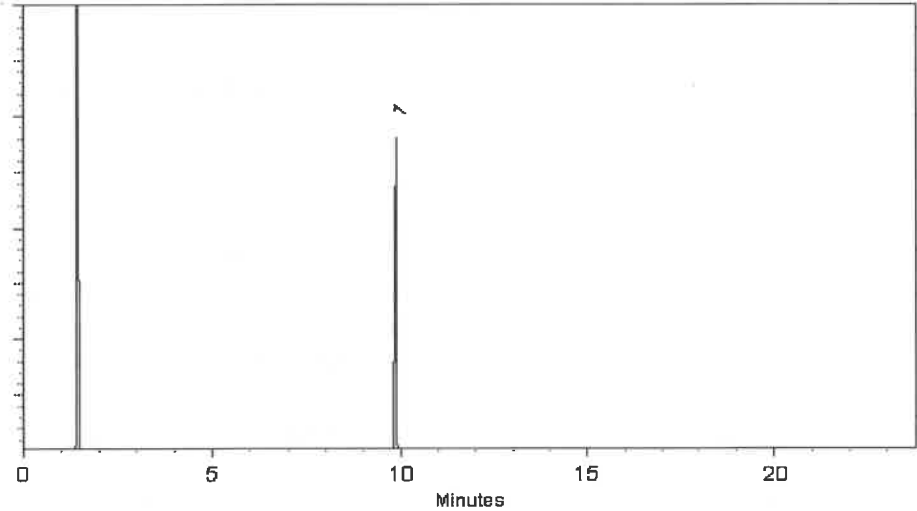
FID

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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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.:** A0225485

Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

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	15711200	99%	10,006.8 µg/mL	+/- 562.1814

* 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:

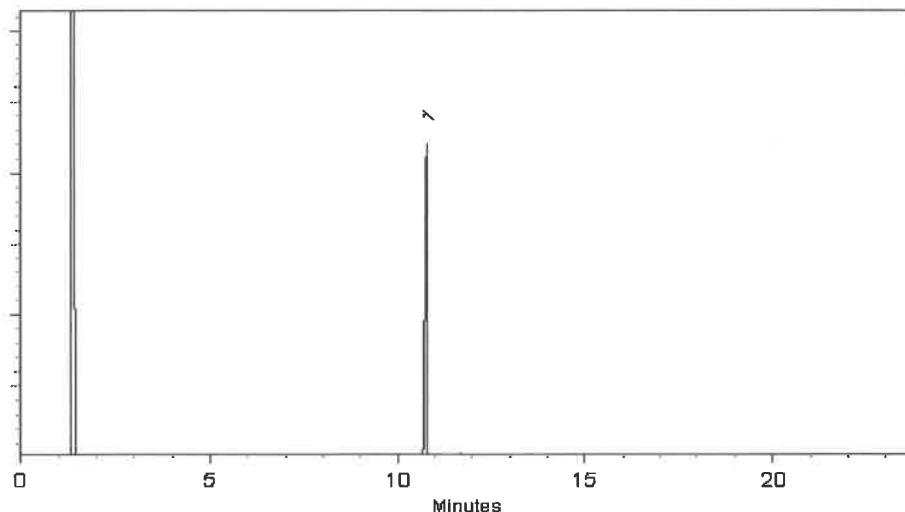
FID

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.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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



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Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

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Solvent: Methylene chloride
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Column:

30m x 0.25mm x 0.25µm
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Carrier Gas:

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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:

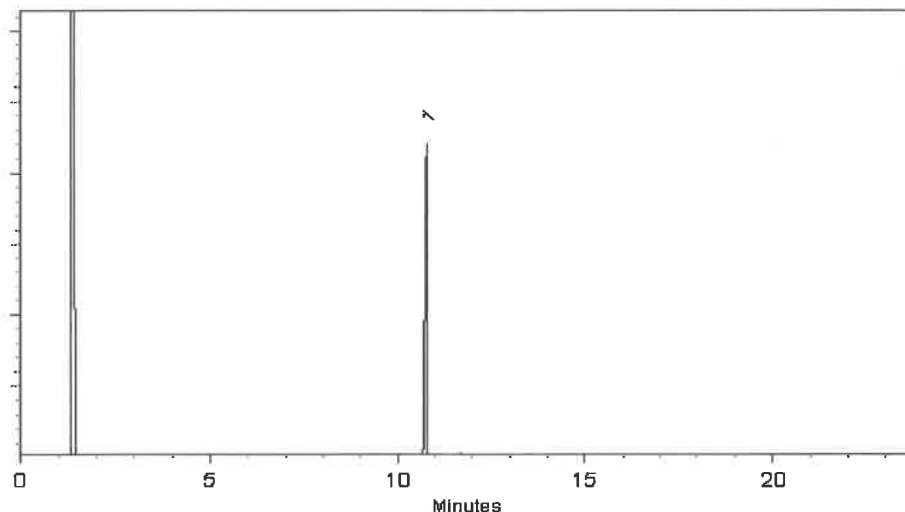
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

Brittany Federinko

Brittany Federinko - Operations Tech II

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Catalog No. : 31098 **Lot No.:** A0225485
Description : 1-Chlorooctadecane Standard
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2032 **Storage:** 10°C or colder
Ship: Ambient

P14028
↓
P14042
RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
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Rtx-5 (cat.#10223)

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hydrogen-constant pressure 10 psi.

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@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

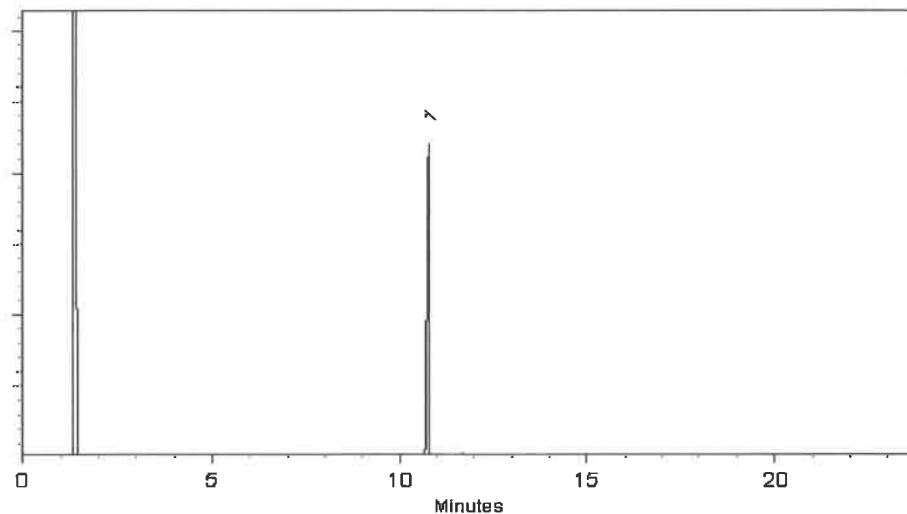
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

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Brittany Federinko - Operations Tech II

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Description : 1-Chlorooctadecane Standard

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

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

Expiration Date : June 30, 2032 **Storage:** 10°C or colder

Ship: Ambient

P14028
↓
P14042 } RC/
6/2/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

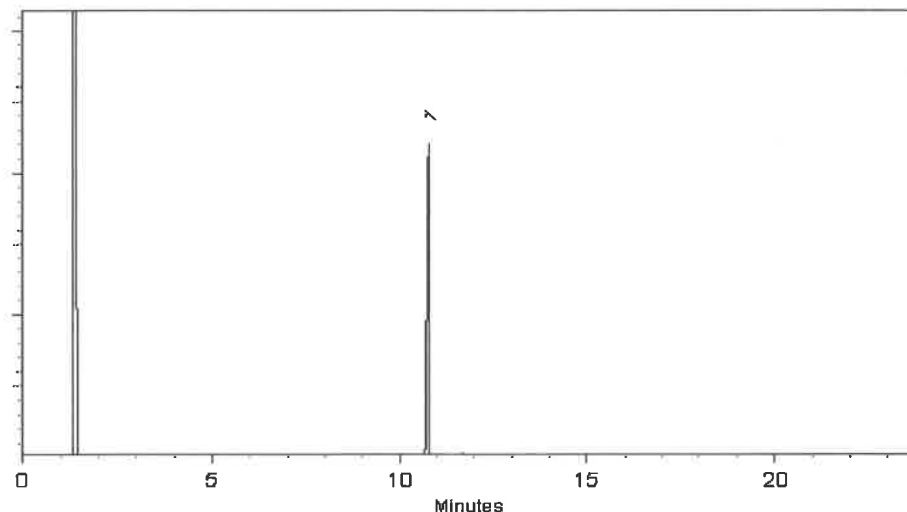
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

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Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

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Catalog No. : 31480 **Lot No.:** A0224278

Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC
↓
P14058 } 6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,018.5 µg/mL	+/- 181.0240
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,019.5 µg/mL	+/- 181.0691

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0221895
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2031 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059
↓
P14062 } AC
6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Catalog No. : 31480 **Lot No.:** A0221895
Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2031 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059
↓
P14062 } AC
6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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Description : MA Fractionation Surrogate Spike Mix
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2031 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059
↓
P14062 } AC
6/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorobiphenyl	321-60-8	00021384	99%	4,032.5 µg/mL	+/- 181.6547
2	2-Bromonaphthalene	580-13-2	STBC5362V	99%	4,033.0 µg/mL	+/- 181.6772

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

Solvent: Hexane
CAS # 110-54-3
Purity 99%



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

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

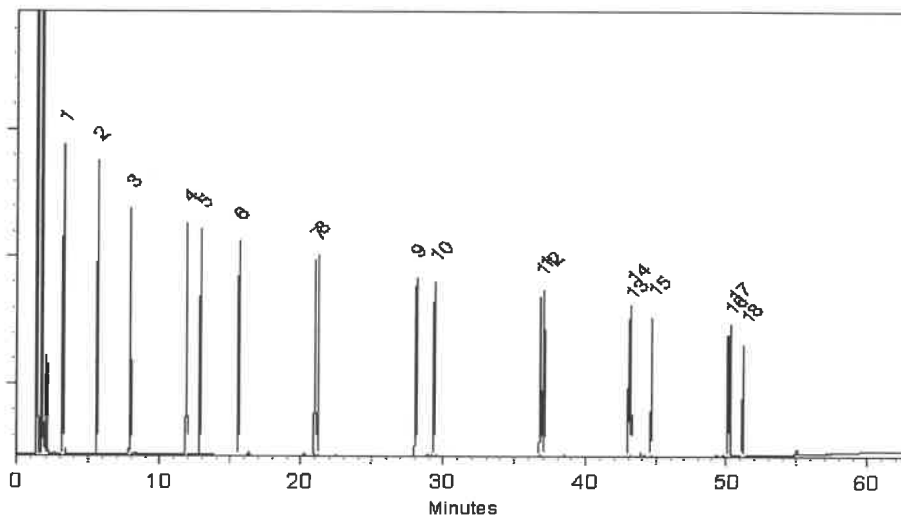
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

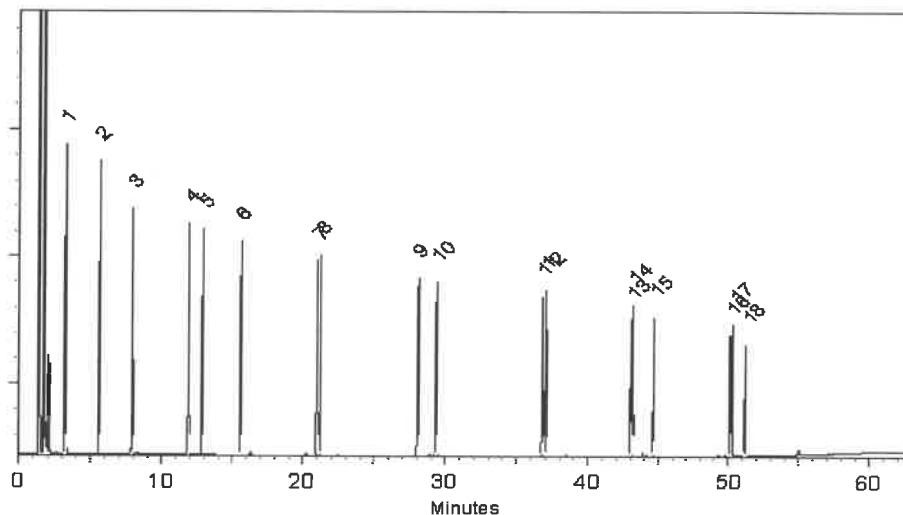
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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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.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

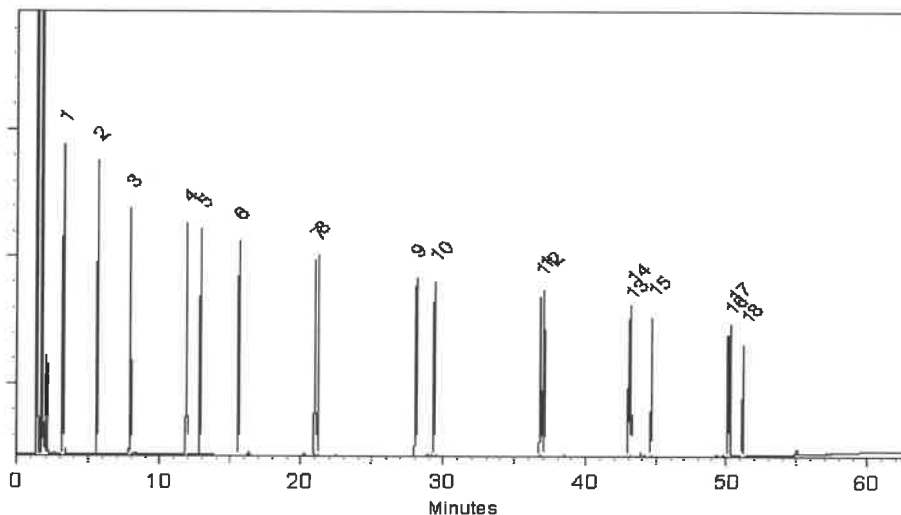
Inj. Temp:
250°C

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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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chromatographic plus



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

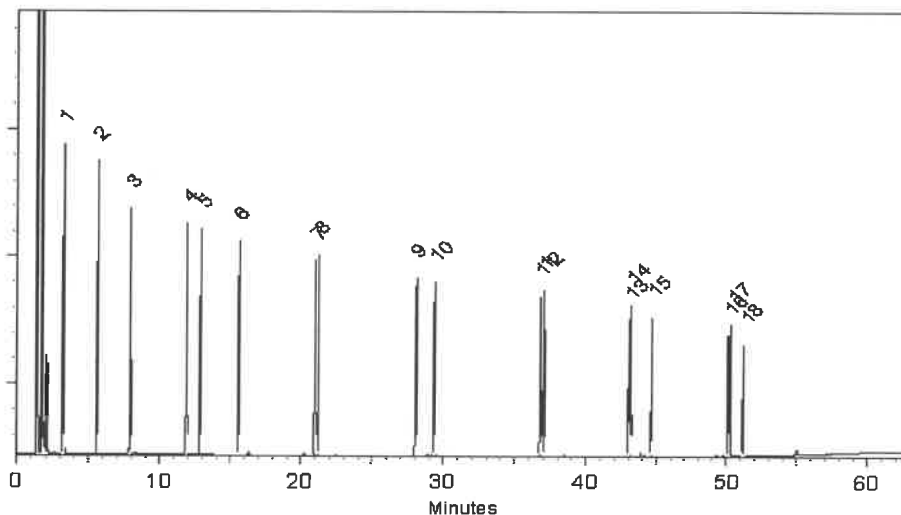
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
15	Benzo(a)pyrene	50-32-8	NQLXA	98%	200.7 µg/mL	+/- 9.0431
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18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

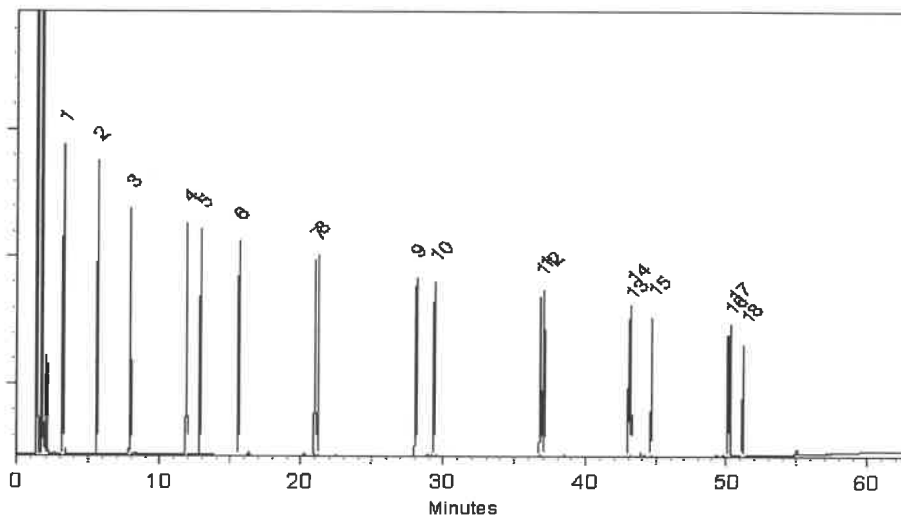
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
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13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
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18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

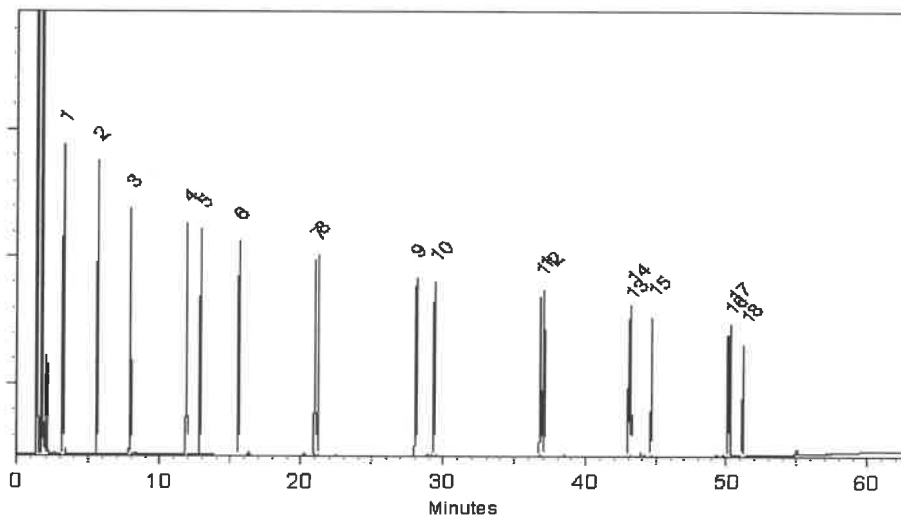
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

Manufactured under Restek's ISO 9001:2015
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Expiration Date : April 30, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: 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.)

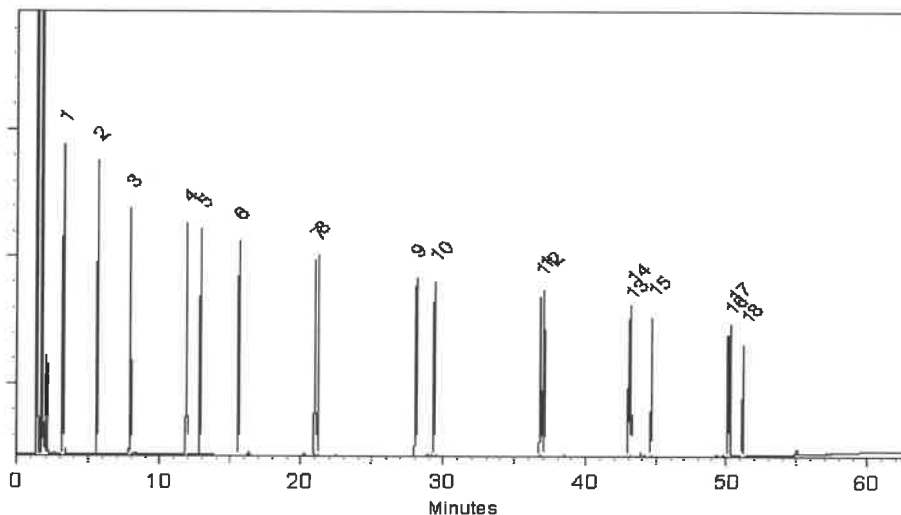
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
20 ml/min.

Inj. Vol
1µl



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Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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P14074 } AC
↓
P14083 } 7/16/25.

CERTIFIED VALUES

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10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
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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.)

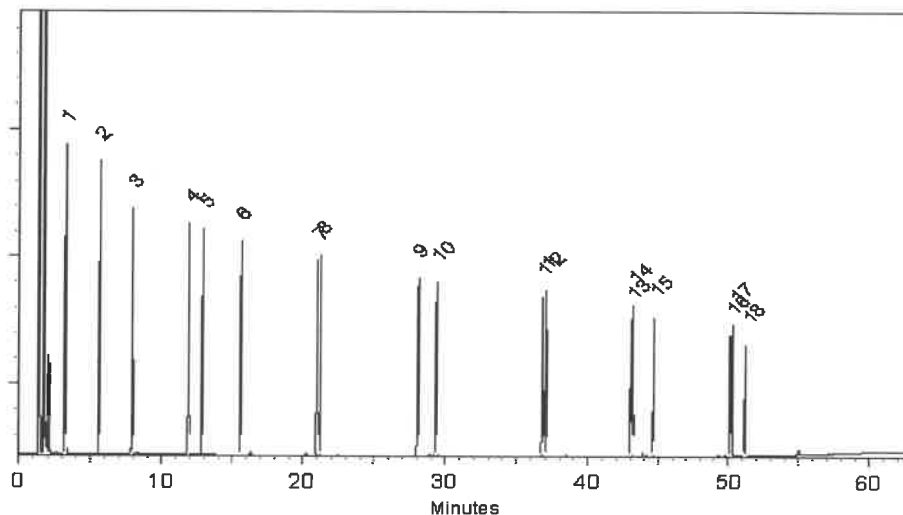
Inj. Temp:
250°C

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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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Fax: 1-814-353-1309

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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.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC
↓
P14083 } 7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

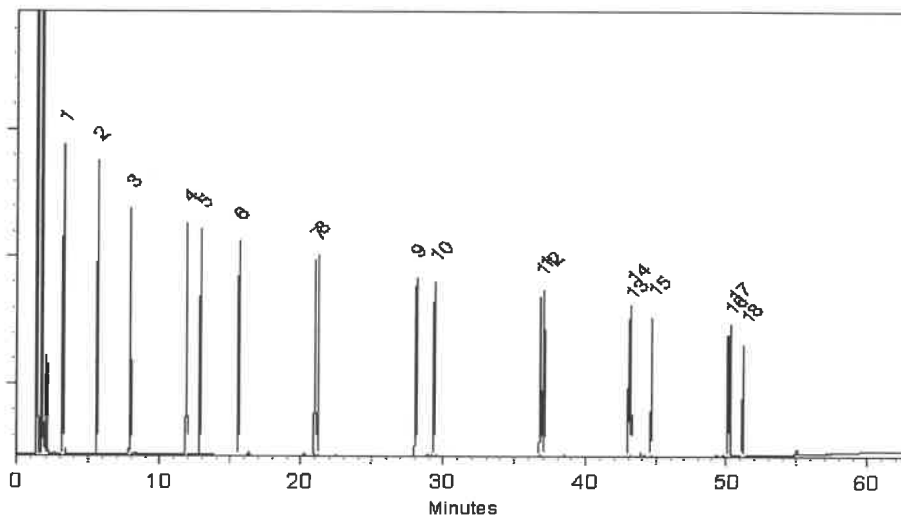
Inj. Temp:
250°C

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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30543 **Lot No.:** A0225381

Description : NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

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

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

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074
↓
P14083 } AC
7/16/25.

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%	200.3 µg/mL	+/- 9.0255
2	Naphthalene	91-20-3	STBL1057	99%	200.4 µg/mL	+/- 9.0294
3	2-Methylnaphthalene	91-57-6	STBL3028	99%	200.4 µg/mL	+/- 9.0294
4	Acenaphthylene	208-96-8	214935V16F	97%	200.2 µg/mL	+/- 9.0208
5	Acenaphthene	83-32-9	MKCV8166	99%	200.0 µg/mL	+/- 9.0114
6	Fluorene	86-73-7	10246250	98%	200.3 µg/mL	+/- 9.0255
7	Phenanthrene	85-01-8	MKCV8193	99%	200.8 µg/mL	+/- 9.0474
8	Anthracene	120-12-7	101492T18R	99%	200.4 µg/mL	+/- 9.0294
9	Fluoranthene	206-44-0	A0458721	99%	200.4 µg/mL	+/- 9.0294
10	Pyrene	129-00-0	BCCK2592	99%	200.8 µg/mL	+/- 9.0474
11	Benz(a)anthracene	56-55-3	I70012022BAA	99%	200.4 µg/mL	+/- 9.0294
12	Chrysene	218-01-9	RP250121RSR	99%	200.0 µg/mL	+/- 9.0114
13	Benzo(b)fluoranthene	205-99-2	022013B	99%	200.4 µg/mL	+/- 9.0294
14	Benzo(k)fluoranthene	207-08-9	012022K	99%	200.4 µg/mL	+/- 9.0294
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	712061504-1-1	99%	200.4 µg/mL	+/- 9.0294
18	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	200.0 µg/mL	+/- 9.0114

* 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.)

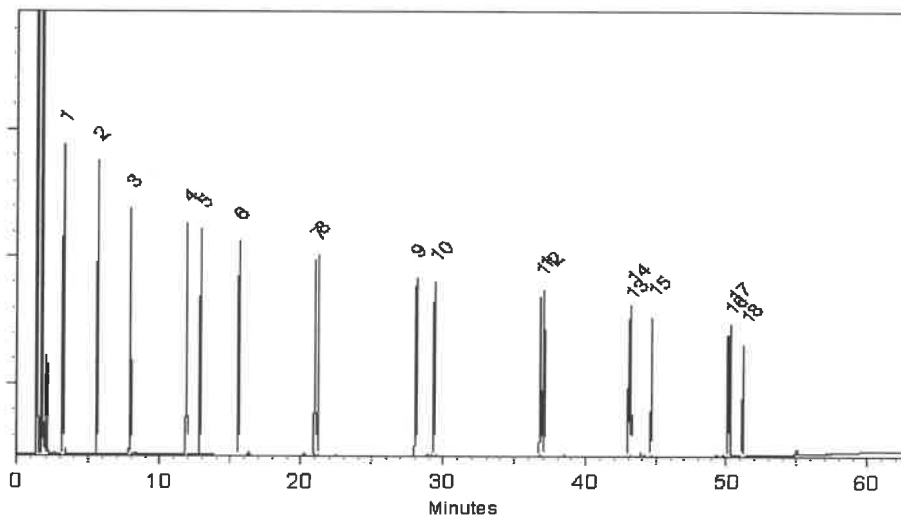
Inj. Temp:
250°C

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.

Richard Zimmerman
Richard Zimmerman - Operations Tech I

Date Mixed: 06-May-2025 **Balance Serial #** 1128353505

Brittany Federinko
Brittany Federinko - Operations Tech II

Date Passed: 09-May-2025

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

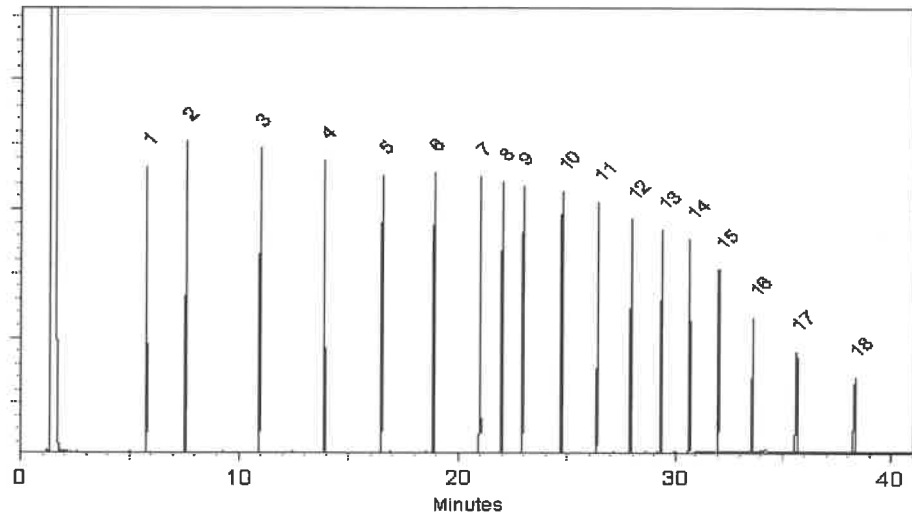
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

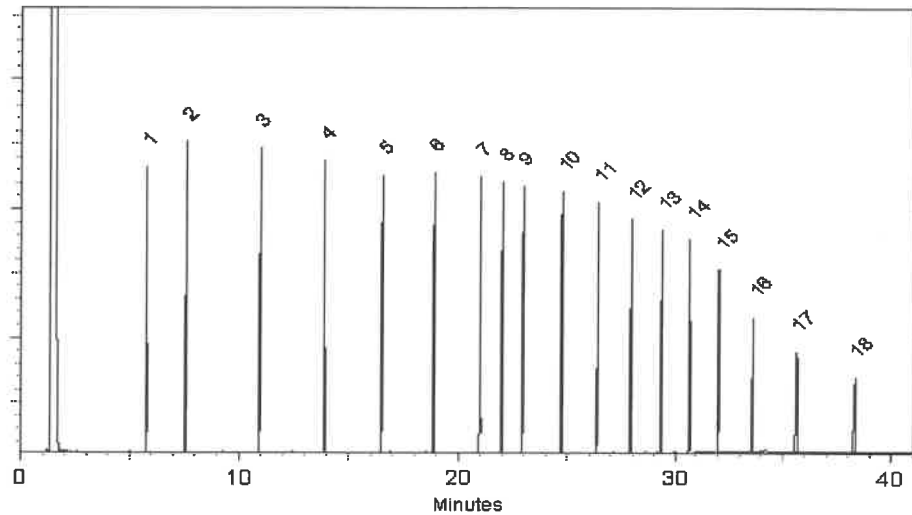
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

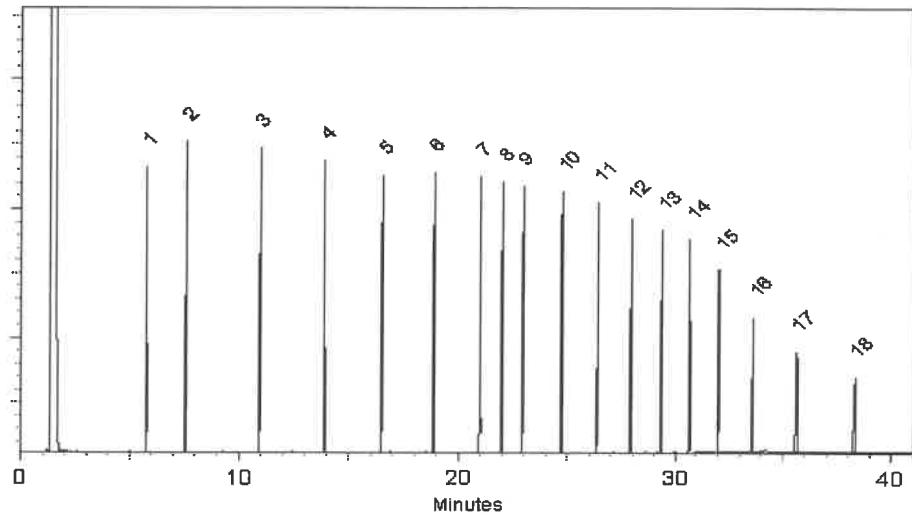
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

Manufactured under Restek's ISO 9001:2015
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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

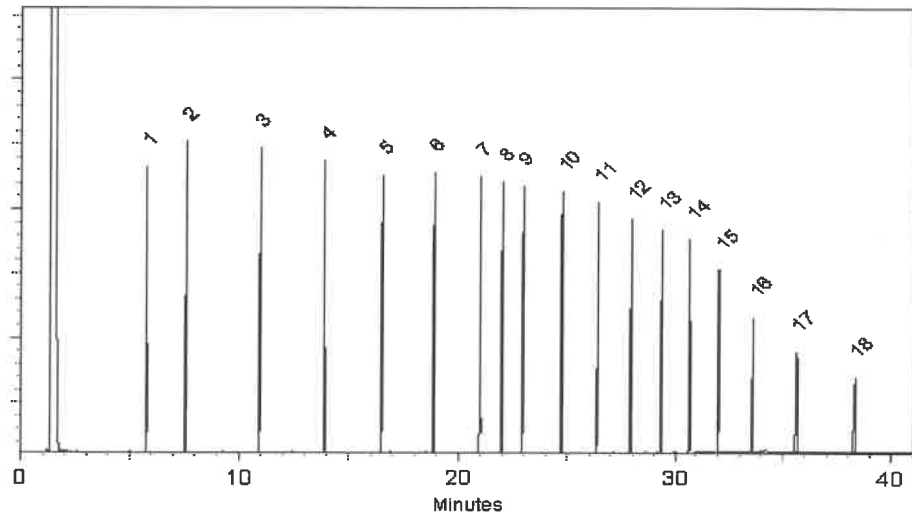
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

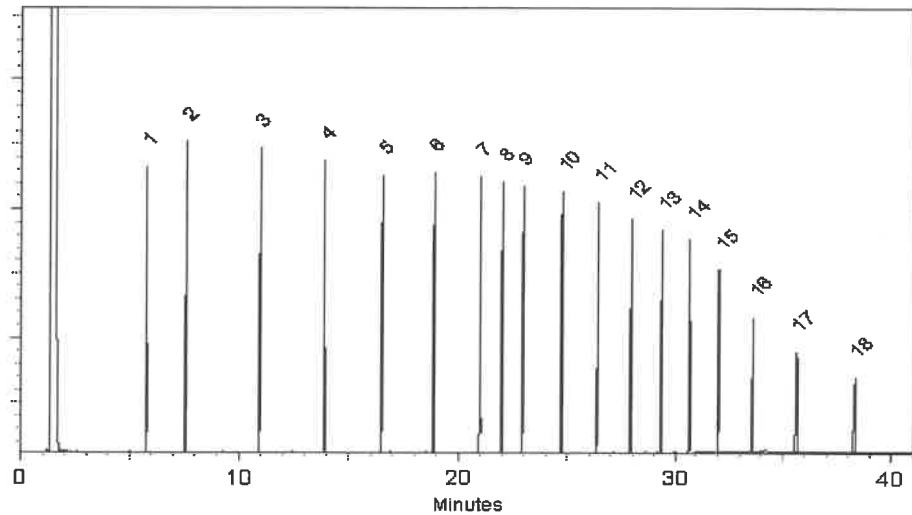
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

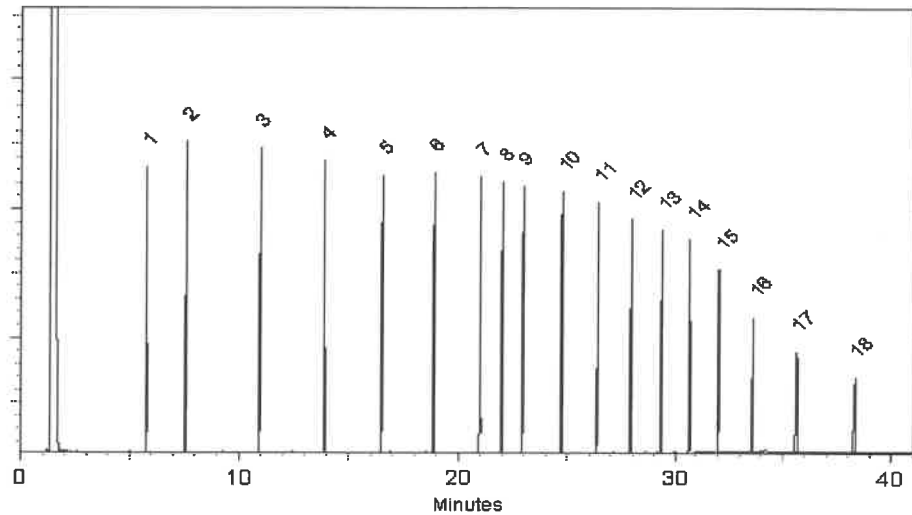
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

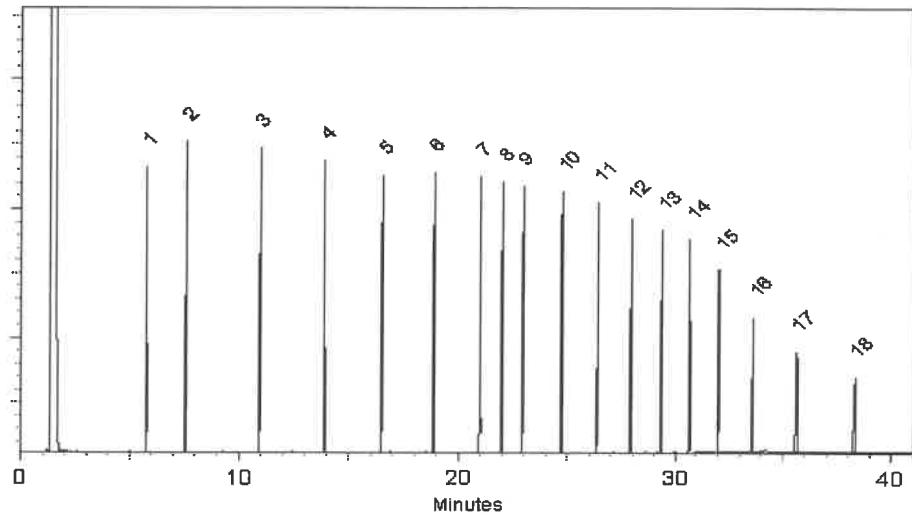
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

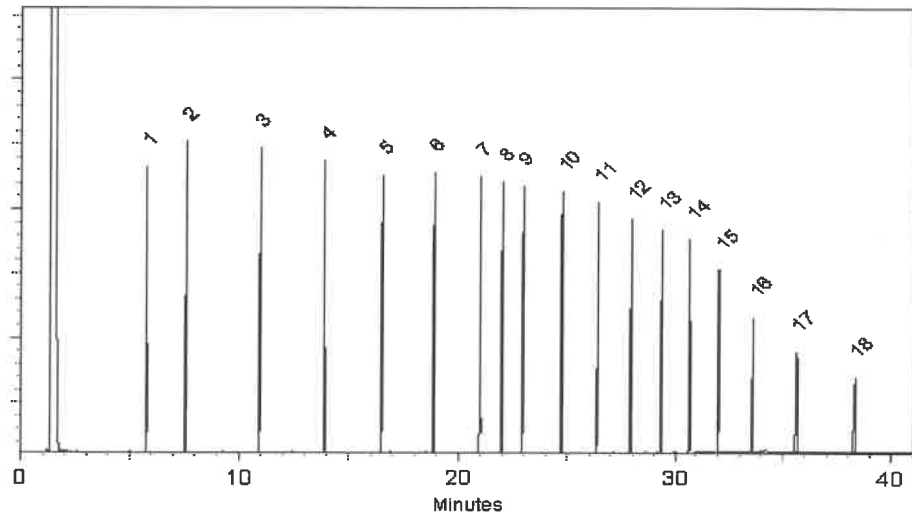
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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Catalog No. : 30542 **Lot No.:** A0226411

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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
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6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
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16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

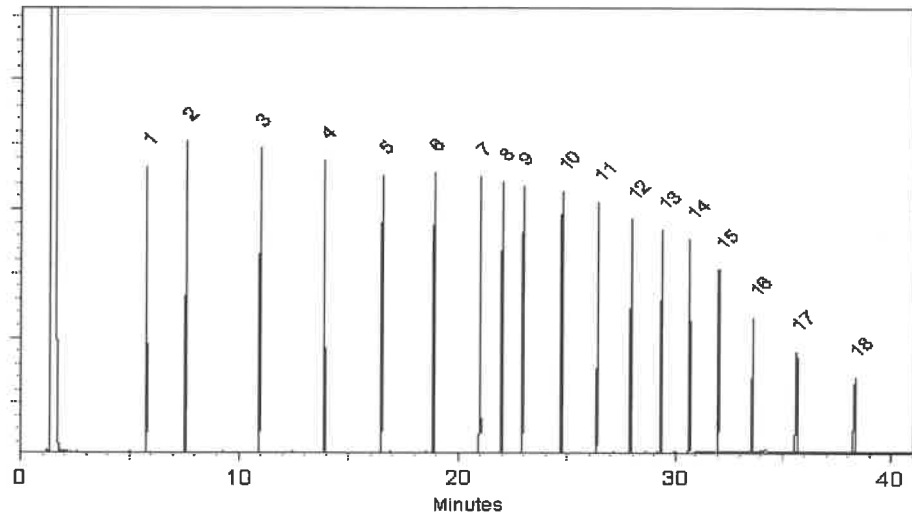
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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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 : July 31, 2032 **Storage:** 10°C or colder

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

P14094
↓
P14103 } AC
7/16/25

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%	200.3 µg/mL	+/- 5.1753
2	n-Decane (C10)	124-18-5	SHBS1019	99%	200.3 µg/mL	+/- 5.1753
3	n-Dodecane (C12)	112-40-3	SHBP7054	99%	200.0 µg/mL	+/- 5.1667
4	n-Tetradecane (C14)	629-59-4	STBL2522	99%	200.0 µg/mL	+/- 5.1667
5	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	200.0 µg/mL	+/- 5.1667
6	n-Octadecane (C18)	593-45-3	UE5NG	99%	200.0 µg/mL	+/- 5.1667
7	n-Eicosane (C20)	112-95-8	MKCN8767	99%	200.0 µg/mL	+/- 5.1667
8	n-Heneicosane (C21)	629-94-7	MKCP1960	99%	200.3 µg/mL	+/- 5.1753
9	n-Docosane (C22)	629-97-0	MKCQ3729	99%	200.0 µg/mL	+/- 5.1667
10	n-Tetracosane (C24)	646-31-1	UH5GN	99%	200.0 µg/mL	+/- 5.1667
11	n-Hexacosane (C26)	630-01-3	MKCV0107	99%	200.0 µg/mL	+/- 5.1667
12	n-Octacosane (C28)	630-02-4	BCCM2091	99%	200.0 µg/mL	+/- 5.1667
13	n-Triacontane (C30)	638-68-6	MKCW9459	99%	200.0 µg/mL	+/- 5.1667
14	n-Dotriacontane (C32)	544-85-4	BCBW0661	99%	200.0 µg/mL	+/- 5.1667
15	n-Tetratriacontane (C34)	14167-59-0	6JNHB	99%	200.0 µg/mL	+/- 5.1667
16	n-Hexatriacontane (C36)	630-06-8	U30H007	99%	200.0 µg/mL	+/- 5.1667
17	n-Octatriacontane (C38)	7194-85-6	0000207852	96%	200.0 µg/mL	+/- 5.1667

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

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

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

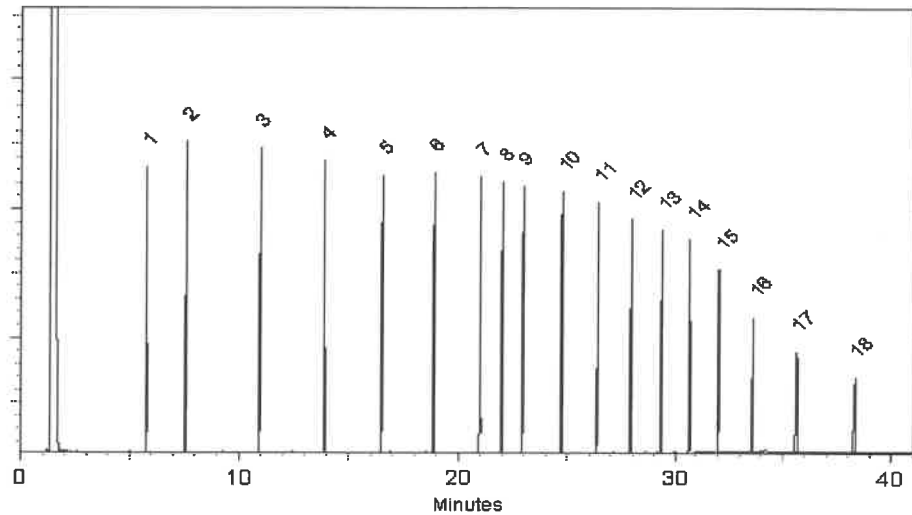
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 05-Jun-2025 **Balance Serial #** 1128353505

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jun-2025

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

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantorsTM**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 88
07/28/2025

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	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.1 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: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



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



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Gen Environmental
ADDRESS: B Carriado
CITY: Successville STATE: NJ ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Newport
PROJECT NO.: LOCATION:
PROJECT MANAGER: GA
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G Environmental PO#:
ADDRESS: B Carriado
CITY: Successville STATE: NJ ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Strongly DAYS*
HARDCOPY (DATA PACKAGE) Strongly DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other edd, has site
☒ EDD FORMAT edd, has site

EPH VOC GRD THAL Metals PCBS ICUP Metals ICUP Metals ICUP Metals ICUP Metals ICUP Metals

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	<u>WC1</u>	<u>9/30/15</u> <u>5011</u>	<u>X</u>	<u>9/30/15</u>	<u>1600</u>	<u>3</u>	<u>*</u>										
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>1540</u> <u>10/2/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.1</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u></u>	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>Waste Class</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u></u>	RECEIVED BY: 3. <u>[Signature]</u>	Shipment Complete ☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3277 GENV01

Order Date : 10/2/2025 3:50:00 PM

Project Mgr :

Client Name : G Environmental

Project Name : ~~Lexington~~ **Newport**

Report Type : NJ Reduced

Client Contact : Gary Landis

Receive DateTime : 10/2/2025 3:40:00 PM

EDD Type : NJ HAZSITE

Invoice Name : G Environmental

Purchase Order :

Hard Copy Date :

Invoice Contact : Gary Landis

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3277-01	WC1	Solid	09/30/2025	16:00	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : *GL*

Date / Time : 10/2/25 1620

Received By : *Sam*

Date / Time : 10/03/25 8:10

Storage Area : VOA Refridgerator Room